



**CHAMPION AEROSPACE LLC**

**AVIATION CATALOG**  
**AV-14**

**REVISED JANUARY 2010**

**Spark Plugs**  
**Oil Filters**  
**Slick by Champion**  
**Exciters**  
**Leads**  
**Igniters**

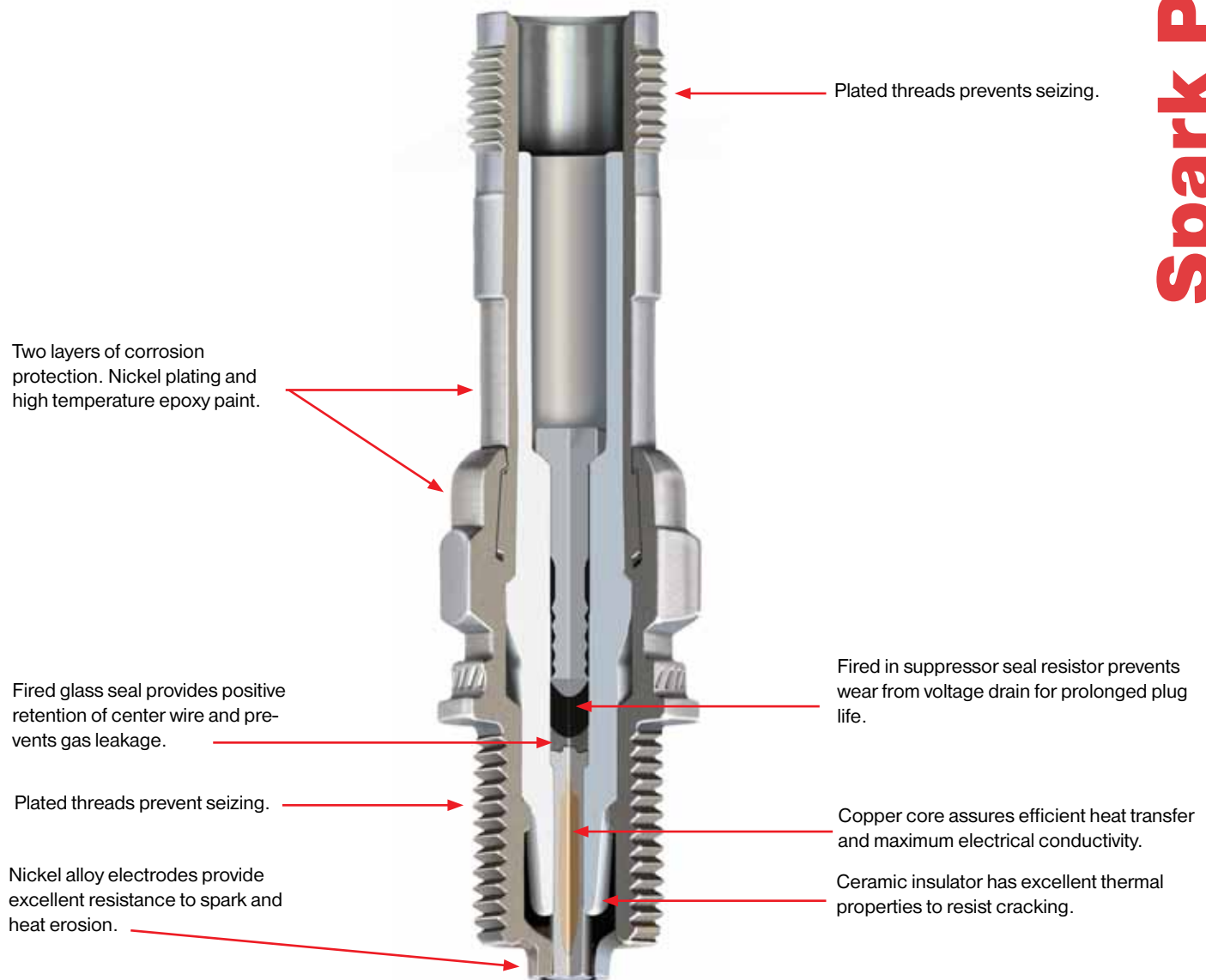


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## Product Design

# Spark Plugs



Advanced-engineered Champion Aerospace spark plugs are designed for the critical difference in performance, far beyond the ordinary. Champion Aerospace spark plugs stand up to high temperatures, pressures, and lead deposits, with a performance second to none. When you're up in the air, count on quality Champion spark plugs.

### **The #1 Choice Worldwide - OEM for all U. S. Piston Engines.**

Champion spark plugs are a product of Champion's commitment to quality and advanced technology, a commitment that has made Champion spark plugs the #1 choice of engine manufacturers, maintenance technicians and pilots around the world.

### **Choose Iridium "S" spark plugs for high-performance engines.**

Longer-lasting than platinum spark plugs, Iridium "S" plugs resist lead attack and provide better scavenging than standard platinum plug designs. For exceptional performance, even under the most demanding conditions.





# Spark Plugs

## Spark Plug Type Designation System

All Champion Aerospace spark plugs are identified by type designations as indicated on the following spark plug number and symbol chart. The symbol is composed of a rating position number, together with prefix and suffix numbers to indicate major plug design characteristics.

### Typical Spark Plug Number with Symbol Explanation

**R H B 37 E**

#### Resistor

**None** - No Resistor  
**R** - Mil-Spec. Resistor  
Erosion Protection

#### Electrode Design

**None** - Conventional Single  
**E** - Two Electrode Massive  
**N** - Four Electrode Massive  
**S** - Single Electrode (Iridium)  
**B** - Twin Electrodes (Nickel)  
**R** - Push-wire - 90° to Center  
**Y** - Projected Core Nose  
**P** - Two Electrode (Platinum)  
**W** - Two Electrode (Iridium)

#### Barrel Style

**None** - Unshielded  
**E** - Shielded 5/8" - 24 Thread  
**H** - Shielded 3/4" - 20 Thread  
(All-Weather Plug)  
**V** - M18X1 - Metric

#### Heat Rating Position

**High Number** - Hot (50)  
**Low Number** - Cold (26)

#### Mounting Thread

**B** - 18 mm  
**M** - 18 mm  
**J** - 14 mm  
**L** - 14 mm  
**U** - 18 mm  
**N** - 14 mm

#### Reach

13/16" (2.06 cm)  
1/2" (1.27 cm)  
3/8" (.095 cm)  
1/2" (1.27 cm)  
1-1/8" (2.85 cm)  
3/4" (1.90 cm)

#### Hex Size

7/8" (2.22 cm)  
7/8" (2.22 cm)  
13/16" (2.06 cm)  
13/16" (2.06 cm)  
7/8" (2.22 cm)  
13/16" (2.06 cm)

### Shielded Aviation Spark Plug

Shielded Aviation Spark Plugs are manufactured under military specification MIL-S-7886B.

### Outside Gaskets

#### Champion

#### Part No.

M-674  
N-673

#### Size

18 mm Solid Copper  
14 mm Solid Copper

#### Military

#### Specification

AN4027-1  
AN4027-2

# Spark Plugs



## Types and Specifications

| Plug Type                  | 12 Pack Shipping Wt.       | Thread Size | Reach         | Shielding Thread | Standard Electrode | Fine Wire Electrode | Plug Gap                |
|----------------------------|----------------------------|-------------|---------------|------------------|--------------------|---------------------|-------------------------|
| L34R                       | 1 lb. - 13 oz.<br>822kg    | 14mm        | 1/2"/1.27cm   | None             | Push Wire          |                     | .018"-.023"/0.46-0.58mm |
| REJ38                      | 2 lb. - 13 oz.<br>1.276 kg | 14mm        | 3/8"/0.95cm   | 5/8" - 24        | Single             |                     | .018"-.023"/0.46-0.58mm |
| REL37B                     | 2 lb. - 13 oz.<br>1.276 kg | 14mm        | 1/2"/1.27cm   | 5/8" - 24        | Twin Electrode     |                     | .016"-.021"/0.41-0.53mm |
| REN30S                     | 2 lbs. - 6 oz.<br>1.077 kg | 14mm        | 3/4"/1.90cm   | 5/8" - 24        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| M41E                       | 2 lbs. - 6 oz.<br>1.077 kg | 18mm        | 1/2"/1.27cm   | None             | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| REM40E<br>REM38E           | 3 lbs. - 4 oz.<br>1.474 kg | 18mm        | 1/2"/1.27cm   | 5/8" - 24        | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| REM38S                     | 3 lbs. - 4 oz.<br>1.474 kg | 18mm        | 1/2"/1.27cm   | 5/8" - 24        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| REM37BY                    | 3 lbs. - 4 oz.<br>1.474 kg | 18mm        | 1/2"/1.27cm   | 5/8" - 24        | Twin Electrode     |                     | .016"-.021"/0.41-0.53mm |
| RHM40E<br>RHM38E           | 3 lbs. - 5 oz.<br>1.503 kg | 18mm        | 1/2"/1.27cm   | 3/4" - 20        | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| RHM38S                     | 3 lbs. - 5 oz.<br>1.503 kg | 18mm        | 1/2"/1.27cm   | 3/4" - 20        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| REB37E<br>REB32E           | 3 lbs. - 4 oz.<br>1.474 kg | 18mm        | 13/16"/2.06cm | 5/8" - 24        | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| RHB37E<br>RHB32E<br>RHB29E | 3 lbs. - 6 oz.<br>1.531 kg | 18mm        | 13/16"/2.06cm | 3/4" - 20        | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| REB36S                     | 3 lbs. - 4 oz.<br>1.474 kg | 18mm        | 13/16"/2.06cm | 5/8" - 24        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| RHB36S<br>RHB32S<br>RHB27S | 3 lbs. - 6 oz.<br>1.531 kg | 18mm        | 13/16"/2.06cm | 3/4" - 20        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| RHU32S                     | 3 lbs. - 6 oz.<br>1.531 kg | 18mm        | 1-1/8"/2.85cm | 3/4" - 20        | Single Fine Wire   | Iridium             | .016"-.021"/0.41-0.53mm |
| RHU32E<br>RHU27E           | 3 lbs. - 6 oz.<br>1.531 kg | 18mm        | 1-1/8"/2.85cm | 3/4" - 20        | Two Prong          |                     | .016"-.021"/0.41-0.53mm |
| RVL38S                     | 2 lbs. - 13 oz.<br>1.276kg | 14 mm       | 1/2"/1.27cm   | M18 x 1          | Single Finewire    | Iridium             | .016"-.021"/0.41-0.53mm |

**PAINT CODE COLOR:** All Standard Electrode - Silver      All Iridium "S" Electrode - Gold



# Spark Plugs

## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications                                 | Plugs Per Eng. | Massive                 |                             | Fine Wire               |         | U.S. Aircraft/Engine Specifications                                    | Plugs Per Eng. | Massive                 |                                | Fine Wire               |               |
|---------------------------------------------------------------------|----------------|-------------------------|-----------------------------|-------------------------|---------|------------------------------------------------------------------------|----------------|-------------------------|--------------------------------|-------------------------|---------------|
|                                                                     |                | Shielded                |                             |                         |         |                                                                        |                | Shielded                |                                |                         |               |
|                                                                     |                | 3/4"-20                 | 5/8"-24                     | 3/4"-20                 | 5/8"-24 |                                                                        |                | 3/4"-20                 | 5/8"-24                        | 3/4"-20                 | 5/8"-24       |
| <b>AERONCA 7BC</b><br>Cont C85-12 (85 hp)                           | 8              | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>Thrush S2R, S2D</b><br>P&W R-1340 (600 hp)                          | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>       | RHM38S                  | REM38S        |
| <b>7CC</b><br>Cont C90-12F (95 hp)                                  | 8              | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>Thrush S2R-800</b><br>Wright R-1300 (800 hp)                        | 14             | <b>RHB37E</b>           | REB37E                         | RHB36S                  | REB36S        |
| <b>15AC</b><br>Cont C145 (145 hp)                                   | 12             | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>Schweizer AG-Cat G164</b><br>Cont W-670 (230 hp)                    | 14             | RHM40E                  | <b>REM40E</b>                  | RHM38S                  | REM38S        |
| <b>S15AC</b><br>Frank 6A4-165-B (165 hp)                            | 12             |                         | <b>REJ38</b>                |                         |         | <b>Jacobs R755 (275 hp)</b>                                            |                |                         |                                |                         |               |
| <b>11AC Chief</b><br>Cont A-65-8 (65 hp)                            | 8              | RHM40E                  | REM37BY<br><b>REM40E</b>    |                         |         | <b>Schweizer Super AG-Cat G164 A thru C</b><br>P&W R-985 (450 hp)      | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>       | RHM38S                  | REM38S        |
| <b>11CC Super Chief</b><br>Cont C85-12 (85 hp)                      | 8              | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>P&amp;W R 1340 (600 hp)</b>                                         |                |                         | <b>REM40E</b>                  |                         |               |
| <b>AEROSPATIALE (Socata)</b>                                        |                |                         | REM37BY<br><b>REM40E</b>    |                         |         | <b>Weatherly 620</b><br>P&W R-985 (450 hp)                             | 18             | RHM40E                  | REM37BY                        | RHM38S                  | REM38S        |
| <b>TB9 Tampico</b><br>Lyco O-320-D2A (160 hp)                       | 8              | RHM40E<br>RHM38E        | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>AMERICAN GENERAL AIRCRAFT CORP. AG5B</b><br>Lyco O-360-A4K (180 hp) | 8              | RHM40E<br><b>RHM38E</b> | REM37BY<br>REM40E<br>REM38E    | RHM38S                  | REM38S        |
| <b>TB10 Tobago</b><br>Lyco O-360-A1AD (180 hp)                      | 8              | RHM40E<br><b>RHM38E</b> | REM37BY<br>REM40E<br>REM38E | RHM38S                  | REM38S  | <b>ARCTIC Tern S1B2</b><br>Lyco O-320-A2B (150 hp)                     | 8              | RHM40E                  | <b>REM40E</b><br>REM37BY       | RHM38S                  | REM38S        |
| <b>TB20 Trinidad</b><br>Lyco IO-540-C4D5D (200 hp)                  | 12             | RHM40E<br>RHM38E        | REM40E<br>REM38E            | RHM38S                  | REM38S  | <b>BEECH D-17S</b><br>P&W R-985-AN (450 hp)                            | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>       | RHM38S                  | REM38S        |
| <b>TB21 Trinidad TC</b><br>Lyco TIO-540-ABIAD (250 hp)              | 12             | <b>RHB37E</b><br>RHB32E |                             | <b>RHB36S</b><br>RHB32S |         | <b>D18S, E18S, G18S, H18S, AT11</b><br>2/P&W R-985-AN (450 hp)         | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>       | RHM38S                  | REM38S        |
| <b>TB30</b><br>Lyco AEIO-540-L1B5D (300 hp)                         | 12             | RHM38E                  | REM38E                      | <b>RHM38S</b>           | REM38S  | <b>Bonanza E33</b><br>Cont IO-470-K (225 hp)                           | 12             | RHM40E                  | <b>REM40E</b>                  | RHM38S                  | REM38S        |
| <b>AG AIRCRAFT (Misc)</b>                                           |                |                         |                             |                         |         | <b>E33A, F33A, F33B, F33C</b><br>Cont IO-520-B (285 hp)                | 12             | <b>RHB32E</b>           |                                | RHB36S<br>RHB32S        |               |
| <b>AG Commander A-9 Sparrow</b><br>Lyco O-540-B2B5 (235 hp)         | 12             | RHM40E                  | <b>REM40E</b>               | RHM38S                  | REM38S  | <b>Bonanza A35, B35</b><br>Cont E-185 (185 hp)                         | 12             | RHM40E                  | <b>REM40E</b>                  | RHM38S                  | REM38S        |
| <b>Air Tractor AT-301/AT301A/AT401/AT501</b><br>P&W R-1340 (600 hp) | 18             | RHM40E<br>RHM40E        | <b>REM40E</b><br>REM37BY    | RHM38S                  | REM38S  | <b>C35, D35, E35, F35</b><br>Cont E-185-11 (205 hp)                    | 12             | RHM40E                  | <b>REM40E</b>                  | RHM38S                  | REM38S        |
| <b>Bull Thrush S2R-R1820</b><br>Wright R 1820 (1200 hp)             | 18             | <b>RHB37E</b>           | REB37E                      | RHB36S                  | REB36S  | <b>G35</b><br>Cont E-225-8 (225 hp)                                    | 12             | RHM40E                  | <b>REM40E</b><br><b>REM40E</b> | RHM38S                  | REM38S        |
| <b>Eagle 220</b><br>Cont W-670 (220 hp)                             | 14             | RHM40E                  | <b>REM40E</b>               | RHM38S                  | REM38S  | <b>H35</b><br>Cont O-470-G (240 hp)                                    | 12             | RHM38E                  | REM38E                         | RHM38S                  | REM38S        |
| <b>Eagle 300</b><br>Lyco IO-540-M1B5D (300 hp)                      | 18             | RHB32E<br><b>RHB37E</b> | REB32E<br>REB37E            | RHB32S<br>RHB36S        | REB36S  | <b>J35, K35, M35</b><br>Cont IO-470-C (250 hp)                         | 12             | RHM40E<br>RHM38E        | REM40E<br><b>REM38E</b>        | RHM38S                  | REM38S        |
| <b>Pezetel PZLM-18A Dromader</b><br>PZL-ASZ-621R (1000 hp)          | 18             | <b>RHB37E</b>           | REB37E                      | RHB36S                  | REB36S  | <b>N35, P35, G33</b><br>Cont IO-470-N (260 hp)                         | 12             | <b>RHB32E</b>           |                                | RHB36S<br>RHB32S        |               |
| <b>Pezetel M-21 Dromader Mini</b><br>PZL-3S (600 hp)                | 14             | RHB37E                  | <b>REB37E</b>               | RHB36S                  | REB36S  | <b>S-35, V-35, V35A, V35B</b><br>Cont IO-520-B (285 hp)                | 12             | <b>RHB32E</b>           |                                | RHB36S<br>RHB32S        |               |
| <b>Super A9 Quail</b><br>Lyco IO-540 (290 hp)                       | 12             | RHM38E                  | <b>REM38E</b>               | RHM38S                  | REM38S  | <b>V35TC, V35A-TC, V35B-TC</b><br>Cont TSIO-520-D (285 hp)             | 12             | RHB32E                  |                                | <b>RHB32S</b>           |               |
| <b>B1A Snipe</b><br>P&W R985 (450 hp)                               | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>36, A36</b><br>Cont IO-520-B (285 hp)                               | 12             | <b>RHB32E</b>           |                                | RHB36S<br>RHB32S        |               |
| <b>B1A Snipe</b><br>Lyco IO-720 (400 hp)                            | 16             | <b>RHM38E</b>           | REM38E                      | RHM38S                  | REM38S  | <b>B36TC</b><br>Cont TSIO-520-UB (300 hp)                              | 12             | RHB32E                  |                                | RHB36S<br><b>RHB32S</b> |               |
| <b>S2A</b><br>Cont W-670 (220 hp)                                   | 14             | RHM40E                  | <b>REM40E</b>               | RHM38S                  | REM38S  | <b>36B, 550</b><br>Cont IO-550-B (300 hp)                              | 12             | <b>RHB32E</b>           |                                | RHB36S<br>RHB32S        |               |
| <b>S2B, S2C, 600-S2C</b><br>P&W R985 (450 hp)<br>R-1340 (600 hp)    | 18             | RHM40E                  | REM37BY<br><b>REM40E</b>    | RHM38S                  | REM38S  | <b>Twin Bonanza B50</b><br>2/Lyco GO-435-C (260 hp)                    | 12             | RHM40E<br>RHM38E        | <b>REM40E</b><br>REM38E        | RHM38S                  | REM38S        |
|                                                                     |                |                         |                             |                         |         | <b>C50</b><br>2/Lyco GO-480-F (275 hp)                                 | 12             | RHM40E<br>RHM38E        | REM40E<br><b>REM38E</b>        | RHM38S                  | REM38S        |
|                                                                     |                |                         |                             |                         |         | <b>D50, D50A</b><br>1/2" Rch. Cyl. 2/Lyco GO-480-C, G (295 hp)         | 12             | RHM38E                  | REM38E                         | RHM38S                  | <b>REM38S</b> |
|                                                                     |                |                         |                             |                         |         | <b>D50, D50A</b><br>13/16" Rch. Cyl. 2/Lyco GO-480-G (295 hp)          | 12             | RHB37E                  |                                | <b>RHB36S</b>           |               |

Most generally used plugs shown in red type. For Unshielded Spark Plugs - see pgs. 13-16. Plug Listings taken from FAA Approved Data. Please consult your aviation distributor for availability on these items.

**4 Contact your preferred distributor for Champion factory FAA certified servicing of your spark plugs.**

# Spark Plugs



## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications    | Plugs Per Eng. | Massive       |               | Fine Wire     |               | U.S. Aircraft/Engine Specifications                | Plugs Per Eng. | Massive       |                | Fine Wire     |               |
|----------------------------------------|----------------|---------------|---------------|---------------|---------------|----------------------------------------------------|----------------|---------------|----------------|---------------|---------------|
|                                        |                | Shielded      |               |               |               |                                                    |                | Shielded      |                |               |               |
|                                        |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24       |                                                    |                | 3/4"-20       | 5/8"-24        | 3/4"-20       | 5/8"-24       |
| <b>BEECH (Cont'd)</b>                  |                |               |               |               |               | <b>Musketeer A23, 23</b>                           |                |               |                |               |               |
| <b>E50, F50</b>                        |                |               |               |               |               | <b>Custom III A23A</b>                             |                | <b>RHM40E</b> |                |               |               |
| 1/2" Rch. Cyl.                         |                |               |               |               |               | Cont IO-346-A (165 hp)                             | 8              | RHM38E        |                | RHM38S        |               |
| 2/LycO GSO-480-A, -B                   |                |               |               |               |               |                                                    |                |               |                |               |               |
| (340 hp)                               | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> | <b>24 Super III, A24, A24R, B24R, C-24R Sierra</b> |                |               |                |               |               |
| <b>E50, F50</b>                        |                |               |               |               |               | LycO IO-360 (200 hp)                               | 8              | RHM38E        | <b>REM38E</b>  | RHM38S        | REM38S        |
| 13/16" Rch. Cyl.                       |                |               |               |               |               | <b>Duchess 76</b>                                  |                |               |                |               |               |
| 2/LycO GSO-480-A, -B                   |                |               |               |               |               | 2/LycO. IO-360-E1A6D &                             |                | RHM40E        | REM40E         |               |               |
| (340 hp)                               | 12             | RHB37E        |               | <b>RHB36S</b> |               | O-360-E1A6D (180 hp)                               | 8              | <b>RHM38E</b> | REM38E         | RHM38S        | REM38S        |
| <b>G50, H50, J50</b>                   |                |               |               |               |               | <b>Skipper 77</b>                                  |                |               | <b>REM37BY</b> |               |               |
| 1/2" Rch. Cyl.                         |                |               |               |               |               | LycO O-235-L2C                                     |                | RHM40E        | REM40E         |               |               |
| 2/LycO IGSO-480-A (340 hp)             | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> | (115 hp)                                           | 8              | RHM38E        | REM38E         | RHM38S        | REM38S        |
| <b>G50, H50, J50</b>                   |                |               |               |               |               | <b>BELL</b>                                        |                |               |                |               |               |
| 3/16" Rch. Cyl.                        |                |               |               |               |               | <b>Utility 47G, 47H, 47H-1</b>                     |                |               |                |               |               |
| 2/LycO IGSO-480-A (340 hp)             | 12             | RHB37E        |               | RHB36S        |               | Frank 6V4-200 (200 hp)                             | 12             |               | <b>REL37B</b>  |               |               |
|                                        |                | RHB32E        |               | <b>RHB32S</b> |               |                                                    |                |               |                |               |               |
| <b>Travel Air 95, B95</b>              |                |               |               |               |               | <b>47G-2, 47G-2A, 47G-5, 47J, 47K</b>              |                |               |                |               |               |
| 2/LycO O-360-A (180 hp)                | 8              | RHM40E        | REM40E        | RHM38S        | REM38S        | 1/2" Rch. Cyl.                                     |                | RHM40E        | REM40E         |               |               |
| <b>Travel Air B95A, D95A, E95</b>      |                |               |               |               |               | LycO VO-435 (260 hp)                               | 12             | RHM38E        | REM38E         | RHM38S        | <b>REM38S</b> |
| 2/LycO IO-360-B (180 hp)               | 8              | RHM40E        | REM40E        | RHM38S        | REM38S        | <b>47G-2, 47G-2A, 47G-5, 47J, 47K</b>              |                |               |                |               |               |
| <b>Debonair B33, A33</b>               |                |               |               |               |               | 13/16" Rch. Cyl.                                   |                |               |                |               |               |
| Cont IO-470-J (225 hp)                 | 12             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | LycO VO-435 (260 hp)                               | 12             | RHB37E        |                | <b>RHB36S</b> |               |
| <b>Debonair B33, C33, D33, E33B</b>    |                |               |               |               |               |                                                    |                |               |                |               |               |
| Cont IO-470-K (225 hp)                 | 12             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | <b>Ranger 47J-2, 47J-2A</b>                        |                |               |                |               |               |
| <b>Debonair C33A, E33A, E33C</b>       |                |               |               |               |               | LycO VO-540-B (305 hp)                             | 12             | RHM38E        | REM38E         | RHM38S        | <b>REM38S</b> |
| Cont IO-520-B (285 hp)                 | 12             | <b>RHB32E</b> |               | RHB36S        |               | <b>Bellarus 47H, 47H-1</b>                         |                |               |                |               |               |
|                                        |                |               |               | RHB32S        |               | Frank 6V4-200-C32                                  | 12             |               | <b>REL37B</b>  |               |               |
| <b>Baron 55, A55, B55, B55B</b>        |                |               |               |               |               | (200 hp)                                           |                |               |                |               |               |
| 2/Cont IO-470-L (260 hp)               | 12             | <b>RHB32E</b> |               | RHB36S        |               | <b>Utility 47G-3B</b>                              |                |               |                |               |               |
| <b>Baron 55, A55, B55, E55</b>         |                |               |               |               |               | 1/2" Rch. Cyl.                                     |                |               |                |               |               |
| 2/Cont IO-520-C (285 hp)               | 12             | <b>RHB32E</b> |               | RHB36S        |               | LycO TVO-435-A (260 hp)                            | 12             | RHM38E        | REM38E         | RHM38S        | <b>REM38S</b> |
| <b>Baron 56TC</b>                      |                |               |               |               |               | <b>Utility 47G-3B</b>                              |                |               |                |               |               |
| 2/LycO TIO-541-E1B4                    |                |               |               |               |               | 13/16" Rch. Cyl.                                   |                | RHB37E        |                | RHB36S        |               |
| (380 hp)                               | 12             | RHB37E        |               | RHB36S        |               | LycO TVO-435-A (260 hp)                            | 12             | RHB32E        |                | <b>RHB32S</b> |               |
|                                        |                | RHB32E        |               | <b>RHB32S</b> |               | <b>Utility 47G-3B1, -3B2</b>                       |                |               |                |               |               |
| <b>Baron 58, 58A</b>                   |                |               |               |               |               | LycO TVO-435-B, -C                                 |                | RHB37E        |                | RHB36S        |               |
| 2/Cont IO-520-C, -CB                   |                |               |               |               |               | (270/280 hp)                                       | 12             | RHB32E        |                | <b>RHB32S</b> |               |
| (285 hp)                               | 12             | <b>RHB32E</b> |               | RHB36S        |               | <b>Utility 47G-3</b>                               |                | RHB37E        |                |               |               |
| <b>Baron 58P, 58TC</b>                 |                |               |               |               |               | Frank 6VS-335 (225 hp)                             | 12             | RHB32E        | REB37E         | <b>RHB36S</b> | REB36S        |
| 2/Cont TSO-520-L, -WB                  |                |               |               |               |               | <b>Utility 47G-4, 47G-4A</b>                       |                |               |                |               |               |
| (310/325 hp)                           | 12             | RHB32E        |               | RHB36S        |               | LycO VO-540-B1B (305 hp)                           | 12             | RHM38E        | REM38E         | RHM38S        | <b>REM38S</b> |
| <b>Baron 58C</b>                       |                |               |               |               |               | <b>Utility 47G-5, 47G-5A</b>                       |                |               |                |               |               |
| 2/Cont IO-550C (300 hp)                | 12             | <b>RHB32E</b> |               | RHB32S        |               | 13/16" Rch. Cyl.                                   |                |               |                |               |               |
| <b>Duke 60, A60, B60</b>               |                |               |               |               |               | LycO VO-435-B1A (265 hp)                           | 12             | RHB37E        |                | <b>RHB36S</b> |               |
| 2/LycO TIO-541-E1A4                    |                |               |               |               |               | <b>BELLANCA</b>                                    |                |               |                |               |               |
| (380 hp)                               | 12             | RHB37E        |               | <b>RHB36S</b> |               | <b>14-13 Series</b>                                |                |               |                |               |               |
|                                        |                | RHB32E        |               | RHB32S        |               | Frank 6A4-A150 (150 hp)                            |                |               |                |               |               |
| <b>Queen Air 65, 70</b>                |                |               |               |               |               | Frank 6A4-165 (165 hp)                             | 12             |               | <b>REJ38</b>   |               |               |
| 1/2" Rch. Cyl.                         |                |               |               |               |               | <b>14-19</b>                                       |                |               |                |               |               |
| 2/LycO IGSO-480-A (340 hp)             | 12             | RHM38E        | REM38E        | <b>RHM38S</b> |               | LycO O-435-A (190 hp)                              | 12             | RHM40E        | <b>REM40E</b>  | RHM38S        | REM38S        |
| <b>Queen Air 65, 70</b>                |                |               |               |               |               | <b>14-19-3, 3A, 260B</b>                           |                |               |                |               |               |
| 13/16" Rch. Cyl.                       |                |               |               |               |               | Cont IO-470-F (260 hp)                             | 12             | <b>RHB32E</b> |                | RHB36S        |               |
| 2/LycO IGSO-480-A (340 hp)             | 12             | RHB37E        |               | RHB36S        |               |                                                    |                |               |                | RHB32S        |               |
|                                        |                | RHB32E        |               | <b>RHB32S</b> |               | <b>17-30, 17-30A</b>                               |                |               |                | RHB36S        |               |
| <b>Queen Air 80, 88, B80</b>           |                |               |               |               |               | Cont IO-520-D, -K (300 hp)                         | 12             | <b>RHB32E</b> |                | RHB32S        |               |
| 2/LycO IGSO-540-A (380 hp)             | 12             | RHB37E        |               | RHB36S        |               | <b>17-31, 17-31A</b>                               |                |               |                |               |               |
|                                        |                | RHB32E        |               | <b>RHB32S</b> |               | LycO IO-540-G, K Series                            |                | RHB37E        |                | RHB36S        |               |
| <b>Musketeer, Sport III, B19 Sport</b> |                |               |               |               |               | (290/300 hp)                                       | 12             | RHB32E        | REM38E         | RHM32S        |               |
| LycO O-320-A, -E (150 hp)              | 8              | RHM40E        | REM37BY       | RHM38S        | REM38S        |                                                    |                | <b>RHM38E</b> |                | RHM38S        | REM38S        |
| <b>Musketeer 23</b>                    |                |               |               |               |               |                                                    |                |               |                |               |               |
| LycO O-320-D2B (160 hp)                | 8              | RHM40E        | REM37BY       | RHM38S        | REM38S        |                                                    |                |               |                |               |               |
|                                        |                |               |               |               |               |                                                    |                |               |                |               |               |
| <b>Musketeer A23-19A</b>               |                |               |               |               |               |                                                    |                |               |                |               |               |
| <b>C23 Sundowner</b>                   |                |               |               |               |               |                                                    |                |               |                |               |               |
| LycO O-360-A (180 hp)                  | 8              | RHM40E        | REM40E        | RHM38S        | REM38S        |                                                    |                |               |                |               |               |
|                                        |                | RHM38E        | <b>REM38E</b> | RHM38S        | REM38S        |                                                    |                |               |                |               |               |

Most generally used plugs shown in **red** type. For Unshielded Spark Plugs - see pgs. 13-16. Plug Listings taken from FAA Approved Data. Please consult your aviation distributor for availability on these items.



# Spark Plugs

## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications         | Plugs Per Eng. | Massive       |               | Fine Wire     |               | U.S. Aircraft/Engine Specifications | Plugs Per Eng. | Massive       |                | Fine Wire |         |
|---------------------------------------------|----------------|---------------|---------------|---------------|---------------|-------------------------------------|----------------|---------------|----------------|-----------|---------|
|                                             |                | Shielded      |               |               |               |                                     |                | Shielded      |                |           |         |
|                                             |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24       |                                     |                | 3/4"-20       | 5/8"-24        | 3/4"-20   | 5/8"-24 |
| <b>BELLANCA (Cont'd)</b>                    |                |               |               |               |               | <b>CESSNA</b>                       |                |               |                |           |         |
| <b>17-31TC, 17-31ATC</b>                    |                |               |               |               |               | <b>120, 140</b>                     |                |               |                |           |         |
| Lyco IO-540-G Series, K1E5 (290/300 hp)     | 12             | <b>RHB37E</b> |               | RHB36S        |               | Cont C-85 (85 hp)                   | 8              | RHM40E        | REM37BY        | RHM38S    | REM38S  |
|                                             |                | RHB32E        |               | RHB32S        |               | Cont C-90 (95 hp)                   |                |               | <b>REM40E</b>  |           |         |
| <b>17-31TC</b>                              |                | <b>RHB37E</b> |               | RHB36S        |               | <b>150, A thru M</b>                |                |               | REM37BY        |           |         |
| Lyco IO-540-K (300 hp)                      | 12             | RHB32E        |               | RHB32S        |               | Cont O-200A (100 hp)                | 8              | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
| <b>BELLANCA (Champion)</b>                  |                |               |               |               |               | <b>152, F152</b>                    |                |               | <b>REM37BY</b> |           |         |
| <b>7AC-S7AC</b>                             |                |               |               |               |               | Lyco O-235-L2C, N2C (110 hp)        | 8              | RHM40E        | REM40E         |           |         |
| Cont A65-8 (65 hp)                          | 8              | RHM40E        | REM37BY       |               | REM38S        |                                     |                | RHM38E        | REM38E         | RHM38S    | REM38S  |
| <b>7DC, S7DC</b>                            |                |               |               |               |               | <b>162</b>                          |                |               | <b>REM37BY</b> |           |         |
| Cont C-85-8 (85 hp)                         | 8              | RHM40E        | <b>REM40E</b> |               | REM38S        | TCM O-200-D                         | 8              | RHM40E        | REM40E         | RHM38S    | REM38S  |
| <b>S7CCM, 7EC, S7EC, 7FC, 7JC</b>           |                |               |               |               |               | <b>170, 170A, B</b>                 |                |               |                |           |         |
| Cont C-90-12 (90 hp)                        | 8              | RHM40E        | REM37BY       | RHM38S        | REM38S        | Cont C-145 (145 hp)                 | 12             | RHM40E        | REM37BY        | RHM38S    | REM38S  |
|                                             |                |               | <b>REM40E</b> |               |               | O-300 (145 hp)                      |                |               | <b>REM40E</b>  |           |         |
| <b>7GC, 7HC</b>                             |                |               |               |               |               | <b>172, A-H, Skyhawk</b>            |                |               | REM37BY        |           |         |
| Lyco O-290-D (135 hp)                       | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | Cont O-300 (145 hp)                 | 12             | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
| <b>7GCA, 7GCB, 7GCBA, 7GCAA, 7GCBC, 7KC</b> |                |               |               |               |               | <b>172 I-M Skyhawk</b>              |                |               | REM37BY        |           |         |
| Lyco O-320-A (150 hp)                       | 8              | RHM40E        | REM37BY       | RHM38S        | REM38S        | Lyco O-320-E (150 hp)               | 8              | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
|                                             |                |               | <b>REM40E</b> |               |               | <b>172N, F172N Skyhawk/100</b>      |                |               | REM37BY        |           |         |
| <b>7ACA</b>                                 |                |               |               |               |               | Lyco O-320-H2AD (160 hp)            | 8              | RHM40E        | REM40E         | RHM38S    | REM38S  |
| Frank 2A-120-B (50 hp)                      | 4              | <b>RHB32E</b> |               | RHB36S        |               |                                     |                | <b>RHM38E</b> | REM38E         | RHM38S    | REM38S  |
| <b>7ECA</b>                                 |                |               |               |               |               | <b>172P Skyhawk</b>                 |                |               | REM37BY        |           |         |
| Lyco O-235 (108 hp)                         |                |               | REM37BY       |               |               | Lyco O-320-D2J (160 hp)             | 8              | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
| Cont O-200-A (100 hp)                       | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |                                     |                | RHM38E        | REM38E         | RHM38S    | REM38S  |
| <b>7ECA</b>                                 |                |               |               |               |               | <b>P172, Powermatic</b>             |                |               | <b>REM40E</b>  |           |         |
| Lyco O-235-K (118 hp)                       | 8              | RHM38E        | REM37BY       | RHM38S        | REM38S        | Cont GO-300-E (175 hp)              | 12             | RHM40E        | REM38E         | RHM38S    | REM38S  |
|                                             |                |               | <b>REM38E</b> |               |               | <b>R172K, FR172K Hawk XP</b>        |                |               |                |           |         |
| <b>7KCAB</b>                                |                |               |               |               |               | Cont IO-360-K (195 hp)              | 12             | RHM38E        | <b>REM38E</b>  | RHM38S    | REM38S  |
| Lyco IO-320-E (150 hp)                      |                |               | REM37BY       |               |               | <b>R172R &amp; S</b>                |                |               |                |           |         |
| AEIO-320-E (150 hp)                         | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | Lyco IO-360-L2A (160/180 hp)        | 8              | <b>RHM38E</b> | REM38E         | RHM38S    | REM38S  |
|                                             |                |               | REM37BY       |               |               |                                     |                | RHM40E        | REM40E         | RHM38S    | REM38S  |
| <b>8KCAB</b>                                |                |               |               |               |               | <b>172RG Cutlass RG</b>             |                |               | REM37BY        |           |         |
| Lyco IO-320-E (150 hp)                      |                |               | REM37BY       |               |               | Lyco O-360-F1A6 (180 hp)            | 8              | RHM40E        | REM40E         |           |         |
| AEIO-320-E (150 hp)                         | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |                                     |                | <b>RHM38E</b> | REM38E         | RHM38S    | REM38S  |
| <b>8GCBC Super Scout</b>                    |                |               |               |               |               | <b>172G Cutlass II</b>              |                |               | REM37BY        |           |         |
| Lyco O-360-C Series (180 hp)                | 8              | RHM40E        | REM37BY       |               |               | Lyco O-360-A4H (180 hp)             | 8              | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
|                                             |                | RHM38E        | REM40E        | RHM38S        | REM38S        |                                     |                | RHM38E        | REM38E         | RHM38S    | REM38S  |
| <b>8KCAB</b>                                |                |               |               |               |               | <b>175A, B, C, Skylark</b>          |                |               | REM37BY        |           |         |
| Lyco AEIO-360-H1A (180 hp)                  | 8              | RHM40E        | REM40E        | RHM38S        | REM38S        | Cont GO-300-A thru E (175 hp)       | 12             | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
|                                             |                | RHM38E        | <b>REM38E</b> |               |               |                                     |                | RHM38E        | REM38E         |           |         |
| <b>BRANTLY</b>                              |                |               |               |               |               | <b>175</b>                          |                |               |                |           |         |
| <b>B2</b>                                   |                |               |               |               |               | Frank 6A-335-B (180 hp)             | 12             | <b>RHB32E</b> |                | RHB36S    |         |
| Lyco VO-360 (180 hp)                        |                |               |               |               |               | <b>177, Cardinal</b>                |                |               | REM37BY        |           |         |
| I/O-360 (180 hp)                            | 8              | RHM40E        | REM40E        | RHM38S        | <b>REM38S</b> | Lyco O-320-E (150 hp)               | 8              | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
|                                             |                | RHM38E        | REM38E        |               |               |                                     |                |               |                |           |         |
| <b>B2B</b>                                  |                |               |               |               |               | <b>177A, 177B, Cardinal</b>         |                |               | REM37BY        |           |         |
| I/O-360A (180 hp)                           | 8              | <b>RHB37E</b> |               | RHB36S        |               | Lyco O-360-A1F6D (180 hp)           | 8              | RHM40E        | REM40E         | RHM38S    | REM38S  |
| <b>305</b>                                  |                |               |               |               |               |                                     |                | RHM38E        | <b>REM38E</b>  |           |         |
| Lyco I/O-540-A1A (305 hp)                   | 12             | RHB37E        |               | <b>RHB36S</b> |               | <b>Cardinal RG</b>                  |                |               |                |           |         |
| <b>CALL-AIR</b>                             |                |               |               |               |               | Lyco IO-360-A1B6D (200 hp)          | 8              | <b>RHM38E</b> | REM38E         | RHM38S    | REM38S  |
| <b>A, A-2, A-4</b>                          |                |               |               |               |               |                                     |                |               |                |           |         |
| Lyco O-235 (115 hp)                         |                |               |               |               |               | <b>180</b>                          |                |               |                |           |         |
| Lyco O-290 (140 hp)                         | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | Cont O-470-A, -J (225 hp)           | 12             | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
| <b>A-5</b>                                  |                |               |               |               |               |                                     |                |               |                |           |         |
| Lyco O-320-A (150 hp)                       | 8              | RHM40E        | REM37BY       | RHM38S        | REM38S        | <b>180A thru D</b>                  |                |               |                |           |         |
|                                             |                |               | <b>REM40E</b> |               |               | Cont O-470-K, -L (230 hp)           | 12             | RHM40E        | <b>REM40E</b>  | RHM38S    | REM38S  |
| <b>A-6</b>                                  |                |               |               |               |               | <b>180E, F, G, H, J</b>             |                |               |                |           |         |
| Lyco O-360-A (180 hp)                       | 8              | RHM40E        | REM37BY       |               |               | Cont O-470-R, -S (230 hp)           | 12             | <b>RHM40E</b> | REM40E         | RHM38S    | REM38S  |
|                                             |                | RHM38E        | REM40E        | RHM38S        | REM38S        |                                     |                |               |                |           |         |
| <b>A-7, A7T</b>                             |                |               |               |               |               | <b>180K</b>                         |                |               |                | RHB36S    |         |
| Cont W-670 (240 hp)                         | 14             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        | Cont O-470-U (230 hp)               | 12             | <b>RHB32E</b> |                | RHB32S    |         |

Most generally used plugs shown in **red** type. For Unshielded Spark Plugs - see pgs. 13-16. Plug Listings taken from FAA Approved Data. Please consult your aviation distributor for availability on these items.

**6 Contact your preferred distributor for Champion factory FAA certified servicing of your spark plugs.**

# Spark Plugs



## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications                | Plugs Per Eng. | Massive       |               | Fine Wire     |         | U.S. Aircraft/Engine Specifications        | Plugs Per Eng. | Massive       |               | Fine Wire     |               |
|----------------------------------------------------|----------------|---------------|---------------|---------------|---------|--------------------------------------------|----------------|---------------|---------------|---------------|---------------|
|                                                    |                | Shielded      |               |               |         |                                            |                | Shielded      |               |               |               |
|                                                    |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24 |                                            |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24       |
| <b>CESSNA (Cont'd)</b>                             |                |               |               |               |         | <b>207, A</b>                              |                |               |               |               |               |
| <b>182A thru D, Skylane</b>                        |                |               |               |               |         | Cont IO-520-F (300 hp)                     | 12             | <b>RHB32E</b> |               | RHB32S        |               |
| Cont O-470-L (230 hp)                              | 12             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S  | <b>T207, A</b>                             |                |               |               |               |               |
| <b>182E thru P, Skylane</b>                        |                |               |               |               |         | Cont TSIO-520-G, -M (285 hp)               | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| Cont O-470-R, -S (230 hp)                          | 12             | <b>RHM40E</b> | REM40E        | RHM38S        | REM38S  | <b>210, 210A, 210B, 210C</b>               |                |               |               | RHB36S        |               |
| <b>182Q, R, F182Q, R, Skylane</b>                  |                |               |               |               |         | Cont IO-470-E, -S (260 hp)                 | 12             | <b>RHB32E</b> |               | RHB32S        |               |
| Cont O-470-U (230 hp)                              | 12             | <b>RHB32E</b> |               | RHB36S        |         | <b>210 Centurion, 210K, L, M, N, R</b>     |                |               |               |               |               |
| <b>R182, FR182 Skylane RG</b>                      |                |               |               |               |         | Cont IO-520-A, -J, -L (285/300 hp)         | 12             | <b>RHB32E</b> |               | RHB36S        |               |
| LycO O-540-J3C5D (235 hp)                          | 12             | RHM40E        | REM40E        | <b>RHM38S</b> | REM38S  | <b>T210 Centurion, T210K, L, M, N</b>      |                |               |               |               |               |
| <b>T182 Turbo Skylane</b>                          |                |               |               |               |         | Cont TSIO-520-C, -H, -R (285 hp)           | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| LycO O-540-L3C5D (235 hp)                          | 12             | RHB37E        |               | <b>RHB36S</b> |         | <b>P210N, Pressurized Centurion</b>        |                |               |               |               |               |
| <b>C-182</b>                                       |                |               |               |               |         | Cont TSIO-520-P, PA, AF, CE (310 hp)       | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| IO-540-AB1A5 (230 hp)                              | 12             | <b>RHM38E</b> | REM38E        | RHM38S        | REM38S  | <b>T303, Crusader</b>                      |                |               |               |               |               |
| <b>T-182</b>                                       |                |               |               |               |         | 2/Cont TSIO-520-AE & LTSIO-520-AE (250 hp) | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| TIO-540-AJ1A                                       | 12             | RHB37E        |               | <b>RHB36S</b> |         | <b>310</b>                                 |                |               |               |               |               |
| <b>TR182, FTR182-Turbo Skylane RG</b>              |                |               |               |               |         | 2/Cont O-470-B (240 hp)                    | 12             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| LycO O-540-L3C5D (235 hp)                          | 12             | <b>RHB37E</b> |               | <b>RHB36S</b> |         | <b>310A</b>                                |                |               |               |               |               |
| <b>185, A thru E Skywagon</b>                      |                |               |               |               |         | 2/Cont O-470-M (240 hp)                    | 12             | <b>RHM40E</b> | REM40E        | RHM38S        |               |
| Cont IO-470-F (260 hp)                             | 12             | <b>RHB32E</b> |               | RHB36S        |         | <b>310C, D, F thru M, P, Q</b>             |                |               |               |               |               |
| <b>185F, A185E/F Skywagon &amp; AG Carry (All)</b> |                |               |               |               |         | 2/Cont IO-470-D, -U, -V, -VO (260 hp)      | 12             | <b>RHB32E</b> |               | RHB36S        |               |
| Cont IO-520-D (300 hp)                             | 12             | <b>RHB32E</b> |               | RHB32S        |         | <b>310R</b>                                |                |               |               |               |               |
| <b>188 Agwagon</b>                                 |                |               |               |               |         | 2/Cont IO-520-M (285 hp)                   | 12             | <b>RHB32E</b> |               | RHB32S        |               |
| Cont O-470-R (230 hp)                              | 12             | <b>RHM40E</b> | REM40E        | RHM38S        | REM38S  | <b>T310P, T310Q, T310R</b>                 |                |               |               |               |               |
| <b>188 Agpickup</b>                                |                |               |               |               |         | 2/Cont TSIO-520-B (285 hp)                 | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| Cont O-470-S (230 hp)                              | 12             | <b>RHM40E</b> | REM40E        | RHM38S        | REM38S  | <b>320A, B, C, Skynight</b>                |                |               |               |               |               |
| <b>188, A188B Agwagon</b>                          |                |               |               |               |         | 2/Cont TSIO-470-B, -C, -D (260 hp)         | 12             | RHB32E        |               | <b>RHB36S</b> |               |
| Cont IO-520-D (300 hp)                             | 12             | <b>RHB32E</b> |               | RHB32S        |         | <b>320D, E, F, Executive Skynight</b>      |                |               |               |               |               |
| <b>188 Agtruck</b>                                 |                |               |               |               |         | 2/Cont TSIO-520-B (285 hp)                 | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| Cont IO-520-D (300 hp)                             | 12             | <b>RHB32E</b> |               | RHB32S        |         | <b>335</b>                                 |                |               |               |               |               |
| <b>T188C Aghusky</b>                               |                |               |               |               |         | 2/Cont TSIO-520-EB (300 hp)                | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| Cont TSIO-520-T (310 hp)                           | 12             | RHB32E        |               | <b>RHB32S</b> |         | <b>336, 337 Skymaster</b>                  |                |               |               |               |               |
| <b>190</b>                                         |                |               |               |               |         | 2/Cont IO-360-G (210 hp)                   | 12             | <b>RHM38E</b> |               | RHM38S        |               |
| Cont W-670 (240 hp)                                | 14             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S  | <b>337 Super Skymaster</b>                 |                |               |               |               |               |
| <b>195</b>                                         |                |               |               |               |         | 2/Cont TSIO-360 (210 hp)                   | 12             | <b>RHM38E</b> |               | RHM38S        |               |
| Jacobs R-755 (245/275/300 hp)                      | 14             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S  | <b>P337G/H Pressurized Skymaster</b>       |                |               |               |               |               |
| <b>205, 205A</b>                                   |                |               |               |               |         | 2/Cont TSIO-360-C (225 hp)                 | 12             | <b>RHM38E</b> |               | RHM38S        |               |
| Cont IO-470-S (260 hp)                             | 12             | <b>RHB32E</b> |               | RHB36S        |         | <b>T337H Turbo Skymaster</b>               |                |               |               |               |               |
| <b>C-206-H</b>                                     |                |               |               |               |         | 2/Cont TSIO-360-H (210 hp)                 | 12             | <b>RHM38E</b> |               | RHB36S        |               |
| IO-540-AC1A5 (300 hp)                              | 12             | RHB37E        |               | <b>RHB36S</b> |         | <b>340</b>                                 |                |               |               |               |               |
| <b>T-206-H</b>                                     |                |               |               |               |         | 2/Cont TSIO-520-K (285 hp)                 | 12             | RHB32E        |               | <b>RHB32S</b> |               |
| TIO-540-AJ1A (310 hp)                              | 12             | RHB32E        |               | RHB36S        |         | <b>340A</b>                                |                |               |               |               |               |
| <b>P206 Super Skylane</b>                          |                |               |               |               |         | 2/Cont TSIO-520-N (310 hp)                 | 12             | RHB32E        |               | RHB36S        | <b>RHB32S</b> |
| Cont IO-520-A (285 hp)                             | 12             | <b>RHB32E</b> |               | RHB32S        |         | <b>350 Corvalis</b>                        |                |               |               |               |               |
| <b>TP206 Super Skylane</b>                         |                |               |               |               |         | TCM 10-550-N                               | 12             | RHB32E        |               | <b>RHB32S</b> |               |
| Cont TSIO-520-C (285 hp)                           | 12             | RHB32E        |               | <b>RHB32S</b> |         | <b>400 Corvalis TT</b>                     |                |               |               |               |               |
| <b>U206 Super Skywagon</b>                         |                |               |               |               |         | TCM TS10-550-C                             | 12             | RHB32E        |               | <b>RHB32S</b> |               |
| <b>U206D</b>                                       |                |               |               |               |         |                                            |                |               |               |               |               |
| Cont IO-520-A (285 hp)                             |                |               |               |               |         |                                            |                |               |               |               |               |
| Cont IO-520-F (300 hp)                             | 12             | <b>RHB32E</b> |               | RHB36S        |         |                                            |                |               |               |               |               |
| <b>U206E, U206G Stationair, U206F</b>              |                |               |               |               |         |                                            |                |               |               |               |               |
| Cont IO-520-F (300 hp)                             | 12             | <b>RHB32E</b> |               | RHB32S        |         |                                            |                |               |               |               |               |
| <b>TU206 Super Skywagon</b>                        |                |               |               |               |         |                                            |                |               |               |               |               |
| Cont TSIO-520-C (285 hp)                           | 12             | RHB32E        |               | <b>RHB32S</b> |         |                                            |                |               |               |               |               |
| <b>TU206E, TU206G, TU206F G Stationair</b>         |                |               |               |               |         |                                            |                |               |               |               |               |
| Cont TSIO-520-C, M (285/310 hp)                    | 12             | RHB32E        |               | RHB36S        |         |                                            |                |               |               |               |               |
|                                                    |                |               |               | <b>RHB32S</b> |         |                                            |                |               |               |               |               |

Most generally used plugs shown in **red** type. For Unshielded Spark Plugs - see pgs. 13-16. Plug Listings taken from FAA Approved Data. Please consult your aviation distributor for availability on these items.



# Spark Plugs

## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications                               | Plugs Per Eng. | Massive          |                                    | Fine Wire               |               | U.S. Aircraft/Engine Specifications                                       | Plugs Per Eng. | Massive          |                                | Fine Wire         |                  |
|-------------------------------------------------------------------|----------------|------------------|------------------------------------|-------------------------|---------------|---------------------------------------------------------------------------|----------------|------------------|--------------------------------|-------------------|------------------|
|                                                                   |                | 3/4"-20          | 5/8"-24                            | 3/4"-20                 | 5/8"-24       |                                                                           |                | 3/4"-20          | 5/8"-24                        | 3/4"-20           | 5/8"-24          |
| <b>CESSNA (Cont'd)</b>                                            |                |                  |                                    |                         |               | <b>GRUMMAN (Cont'd)</b>                                                   |                |                  |                                |                   |                  |
| <b>401, 402A, B</b><br>2/Cont TSIO-520-E                          | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>Widgeon G44</b><br>2/Ranger 6-440-C5 (200 hp)                          | 12             | RHM40E           | <b>REM40E</b>                  | RHM38S            | REM38S           |
| <b>402C</b><br>2/Cont TSIO-520-VB<br>(325 hp)                     | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>Modified G44</b><br>2/Cont IO-470-M (260 hp)                           | 12             | <b>RHB32E</b>    |                                |                   | RHB36S<br>RHB32S |
| <b>404 Titan</b><br>2/Cont GTSIO-520-M<br>(375 hp)                | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>Modified G44</b><br>2/LycO GO-480-B (270 hp)                           | 12             | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E        | RHM38S            | REM38S           |
| <b>411, 411A</b><br>2/Cont GTSIO-520-C<br>(340 hp)                | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>Mallard G-73</b><br>2/P & W R-1340 (600 hp)                            | 18             | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>414, 414A</b><br>2/Cont TSIO-520-J, -N<br>(310 hp)             | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>Avenger TBM</b><br>Wright R-2600 (1900 hp)                             | 28             | RHB37E           | <b>REB37E</b>                  | RHB36S            | REB36S           |
| <b>421A, B, C</b><br>2/Cont GTSIO-520-D, -H, -L<br>-N (375 hp)    | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>GULFSTREAM AMERICAN</b>                                                |                |                  |                                |                   |                  |
| <b>CHAMPION (See Bellanca)</b>                                    |                |                  |                                    |                         |               | <b>AA-1 Yankee</b><br>LycO O-235 (108 hp)                                 | 8              | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>CHRISTEN</b>                                                   |                |                  |                                    |                         |               | <b>AA-1A, AA-1B Trainer</b><br>LycO O-235 (108 hp)                        | 8              | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>S-1T Pitts Special</b><br>LycO AEIO-360-A1E<br>(200 hp)        | 8              | RHM38E           | <b>REM38E</b>                      | REM37BY<br>RHM38S       | REM38S        | <b>AA-1B, TR2</b><br>LycO O-235 (108 hp)                                  | 8              | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>S-2B, S-2S Pitts Special</b><br>LycO AEIO-540-D4A5<br>(260 hp) | 12             | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E            | RHM38S                  | REM38S        | <b>AA1C Lynx, T-Cat</b><br>LycO O-235-L (115 hp)                          | 8              | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E        | REM37BY<br>RHM38S | REM38S           |
| <b>CIRRUS</b>                                                     |                |                  |                                    |                         |               | <b>AA-5 Traveler</b><br>LycO O-320-E (150 hp)                             | 8              | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>SRV, SR20</b><br>Cont. IO360-ES (200 hp)                       | 8              | RHM38E           | <b>REM38E</b>                      | RHM38S                  | REM38S        | <b>AA5A Cheetah</b><br>LycO O-320-E (150 hp)                              | 8              | RHM40E           | <b>REM40E</b>                  | REM37BY<br>RHM38S | REM38S           |
| <b>SR22</b><br>Cont. IO550-N (310 hp)                             | 12             | RHB32E           |                                    | RHB36S<br><b>RHB32S</b> |               | <b>AA-5B Tiger</b><br>LycO O-360-A4K<br>(180 hp)                          | 8              | RHM40E<br>RHM38E | <b>REM40E</b><br><b>REM38E</b> | REM37BY<br>RHM38S | REM38S           |
| <b>COLUMBIA/LANCAIR</b>                                           |                |                  |                                    |                         |               | <b>Cougar</b><br>2/LycO O-320-D<br>(160 hp)                               | 8              | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E        | REM37BY<br>RHM38S | REM38S           |
| <b>Columbia 300, 350</b><br>Cont IO550N (310 hp)                  | 12             | RHB32E           |                                    | <b>RHB32S</b><br>RHB36S |               | <b>COMMANDER</b>                                                          |                |                  |                                |                   |                  |
| <b>Columbia 400</b><br>Cont TSIO550 (310 hp)                      | 12             | RHB32E           |                                    | <b>RHB32S</b><br>RHB36S |               | <b>Commander 200D</b><br>Cont IO-520-A (285 hp)                           | 12             | <b>RHB32E</b>    |                                | RHB32S            |                  |
| <b>COMMANDER AIRCRAFT COMPANY</b>                                 |                |                  |                                    |                         |               | <b>500</b><br>2/LycO O-540-A (250 hp)                                     | 12             | RHM40E<br>RHM38E | REM40E<br>REM38E               | RHM38S            | <b>REM38S</b>    |
| <b>Commander 114B</b><br>LycO IO-540-T4B5 (260 hp)                | 12             | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E            | RHM38S                  | REM38S        | <b>500A</b><br>2/Cont IO-470-M (260 hp)                                   | 12             | <b>RHB32E</b>    |                                | RHB32S            |                  |
| <b>Commander 114TCL</b><br>TSIO-550B                              | 12             | <b>RHU32E</b>    |                                    |                         | RHU32S        | <b>500B, 500U, 500S</b><br>2/LycO IO-540-B, -E<br>1/2" Rch. Cyl. (290 hp) | 12             | RHM38E           | REM38E                         | RHM38S            | <b>REM38S</b>    |
| <b>DIAMOND</b>                                                    |                |                  |                                    |                         |               | <b>500U</b><br>2/LycO IO-540-E1B5<br>13/16" Rch. Cyl. (290 hp)            | 12             | RHB37E<br>RHB32E | <b>REB37E</b><br>REB32E        | RHB36S<br>RHB32S  | REB36S           |
| <b>Eclipse Evolution</b>                                          |                |                  |                                    |                         |               | <b>520</b><br>2/LycO GO-435-C (260 hp)                                    | 12             | RHM40E<br>RHM38E | <b>REM40E</b><br>REM38E        | RHM38S            | REM38S           |
| <b>DA 20-1C</b><br>Cont. IO240B3B (125 hp)                        | 8              | <b>RHM38E</b>    | REM38E                             | RHM38S                  | REM38S        | <b>BY560</b><br>2/LycO GO-480-B (270 hp)<br>GO-480-D (275 hp)             | 12             | RHM40E<br>RHM38E | REM40E<br>REM38E               | RHM38S            | <b>REM38S</b>    |
| <b>DA 40-180</b><br>LycO IO360-MIA<br>(180 hp)                    | 8              | RHM38E           | REM37BY<br>REM40E<br><b>REM38E</b> | RHM38S                  | REM38S        | <b>560A, E</b><br>1/2" Rch. Cyl.<br>2/LycO GO-480-C, -G<br>(295 hp)       | 12             | RHM38E           | REM38E                         | RHM38S            | <b>REM38S</b>    |
| <b>ENSTROM</b>                                                    |                |                  |                                    |                         |               | <b>560A, E</b><br>13/16" Rch. Cyl.<br>2/LycO GO-480-G (295 hp)            | 12             | RHB37E           |                                | <b>RHB36S</b>     |                  |
| <b>F28, F28A, 280</b><br>LycO HIO-360-C (205 hp)                  | 8              | RHM38E           | REM38E                             | RHM38S                  | <b>REM38S</b> | <b>560F</b><br>1/2" Rch. Cyl.<br>2/LycO IGO-540 (350 hp)                  | 12             | RHM38E           |                                | <b>RHM36S</b>     |                  |
| <b>F28B</b><br>LycO TIO-360-B2A (200 hp)                          | 8              | <b>RHB37E</b>    | REB37E                             | RHB36S                  | REB36S        |                                                                           |                |                  |                                |                   |                  |
| <b>F28C, 280C</b><br>LycO HIO-360-E1AD<br>(205 hp)                | 8              | RHB32E           |                                    |                         | <b>RHB32S</b> |                                                                           |                |                  |                                |                   |                  |
| <b>F28E, F28F</b><br>LycO IO-360-F1AD (225 hp)                    | 8              | RHB32E           |                                    |                         | <b>RHB32S</b> |                                                                           |                |                  |                                |                   |                  |
| <b>ERCOUPE</b>                                                    |                |                  |                                    |                         |               |                                                                           |                |                  |                                |                   |                  |
| <b>Club-Air 415-C</b><br>Cont C-75 (75 hp)                        | 8              | RHM40E           | REM37BY<br><b>REM40E</b>           |                         |               |                                                                           |                |                  |                                |                   |                  |
| <b>Club-Air 415E, F, G, H</b><br>Cont C-85 (85 hp)                | 8              | RHM40E           | REM37BY<br><b>REM40E</b>           |                         |               |                                                                           |                |                  |                                |                   |                  |
| <b>GRUMMAN</b>                                                    |                |                  |                                    |                         |               |                                                                           |                |                  |                                |                   |                  |
| <b>Goose 21</b><br>2/P & W R-985 (450 hp)                         | 18             | RHM40E           | <b>REM40E</b>                      | RHM38S                  | REM38S        |                                                                           |                |                  |                                |                   |                  |

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**8 Contact your preferred distributor for Champion factory FAA certified servicing of your spark plugs.**

# Spark Plugs



## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications | Plugs Per Eng. | Massive       |               | Fine Wire     |               | U.S. Aircraft/Engine Specifications | Plugs Per Eng. | Massive       |               | Fine Wire     |               |
|-------------------------------------|----------------|---------------|---------------|---------------|---------------|-------------------------------------|----------------|---------------|---------------|---------------|---------------|
|                                     |                | Shielded      |               |               |               |                                     |                | Shielded      |               |               |               |
|                                     |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24       |                                     |                | 3/4"-20       | 5/8"-24       | 3/4"-20       | 5/8"-24       |
| <b>COMMANDER (Cont'd)</b>           |                |               |               |               |               | <b>UH-12D</b>                       |                |               |               |               |               |
| <b>560F</b>                         |                |               |               |               |               | LycO VO-435 (260 hp)                | 12             | RHM40E        | REM40E        | RHM38S        | <b>REM38S</b> |
| 13/16" Rch. Cyl.                    |                |               |               |               |               | <b>UH-12E</b>                       |                |               |               |               |               |
| 2/LycO IGO-540 (350 hp)             | 12             | RHB37E        |               | <b>RHB36S</b> |               | LycO VO-540 (305 hp)                | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> |
| <b>680, 680E</b>                    |                |               |               |               |               | <b>UH-12E, L</b>                    |                |               |               |               |               |
| 1/2" Rch. Cyl.                      |                |               |               |               |               | 13/16" Rch. Cyl.                    | 12             | RHB37E        |               | <b>RHB36S</b> |               |
| 2/LycO GSO-480-A (340 hp)           | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> | LycO VO-540-C (305 hp)              | 12             | RHB37E        |               | <b>RHB36S</b> |               |
| <b>680, 680E</b>                    |                |               |               |               |               | <b>HUSKY</b>                        |                |               |               |               |               |
| 13/16" Rch. Cyl.                    |                |               |               |               |               | <b>A-1B-160</b>                     |                |               | REM38E        |               |               |
| 2/LycO GSO-480-A (340 hp)           | 12             | RHB37E        |               | <b>RHB36S</b> |               | Lyc. O-320-D2A                      | 8              | RHM38E        | REM37BY       | RHM38S        | REM38S        |
| <b>680F, 680FP, 680FL, 680FLP</b>   |                |               |               |               |               | <b>A-1B-180</b>                     |                |               | REM38E        |               |               |
| 1/2" Rch. Cyl. 2/LycO               |                |               |               |               |               | Lyc. O-360-A1P                      | 8              | RHM38E        | REM37BY       | RHM38S        | REM38S        |
| IGSO-540-B (380 hp)                 | 12             | RHM38E        |               | <b>RHM38S</b> |               | <b>A-1B-200</b>                     |                |               | REM38E        |               |               |
| <b>680F, 680FP, 680FL, 680FLP</b>   |                |               |               |               |               | Lyc. 10-360-A1D6                    | 8              | RHM38E        | REM37BY       | RHM38S        | REM38S        |
| 13/16" Rch. Cyl. 2/LycO             |                |               |               |               |               | <b>LAKE</b>                         |                |               |               |               |               |
| IGSO-540-B (380 hp)                 | 12             | RHB37E        |               | RHB36S        |               | <b>200EP</b>                        |                |               |               |               |               |
| <b>112, 112A</b>                    |                |               |               |               |               | LycO IO-360-A1B6 (200 hp)           | 8              | RHM38E        | <b>REM38E</b> | RHM38S        | REM38S        |
| LycO IO-360-C (200 hp)              | 8              | RHM38E        | <b>REM38E</b> | RHM38S        | REM38S        | <b>LA-250</b>                       |                | <b>RHM40E</b> | REM40E        |               |               |
| <b>112TC, 112TCA</b>                |                |               |               |               |               | LycO IO-540-C4B5 (250 hp)           | 12             | RHM38E        | REM38E        | RHM38S        |               |
| LycO TO-360-C1A6D                   |                |               |               |               |               | <b>Skimmer C-1</b>                  |                |               |               |               |               |
| (210 hp)                            | 8              | <b>RHB32E</b> |               | RHB32S        |               | LycO O-320-A (150 hp)               | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| <b>114, 114A</b>                    |                |               |               |               |               | <b>Skimmer C-2, LA-4, LA-4A</b>     |                |               |               |               |               |
| LycO IO-540-T4A5D (260 hp)          | 12             | RHM40E        | REM40E        | RHM38S        | REM38S        | LycO O-360-A (180 hp)               | 8              | RHM40E        | REM40E        | RHM38S        | REM38S        |
| <b>Commander 685</b>                |                |               |               |               |               | <b>Skimmer LA-4-200</b>             |                |               |               |               |               |
| 2/Cont GTSIO-520-F, -K              |                |               |               |               |               | LycO IO-360-A1B6 (200 hp)           | 8              | RHM38E        | <b>REM38E</b> | RHM38S        | REM38S        |
| (435 hp)                            | 12             | <b>RHB32E</b> |               | RHB32S        |               | <b>LUSCOMBE</b>                     |                |               |               |               |               |
| <b>Model 700</b>                    |                |               |               |               |               | <b>Silvaire 8A</b>                  |                |               |               |               |               |
| 2/LycO TIO-540-R2AD                 |                |               |               |               |               | Cont A-65 (65 hp)                   | 8              | RHM40E        | REM37BY       | <b>REM40E</b> |               |
| (340/350 hp)                        | 12             | RHB37E        | REB37E        | <b>RHB36S</b> |               | <b>Silvaire 8C, D</b>               |                |               | REM37BY       | <b>REM40E</b> |               |
| <b>HELIO</b>                        |                |               |               |               |               | Cont A-75 (75 hp)                   | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| <b>Courier</b>                      |                |               |               |               |               | <b>Silvaire 8E, F</b>               |                |               |               |               |               |
| LycO GO-435-C (260 hp)              | 12             | RHM40E        | <b>REM40E</b> |               |               | Cont C-85 (85 hp)                   |                |               | REM37BY       |               |               |
| <b>Super Courier</b>                |                |               |               |               |               | Cont C-90 (95 hp)                   | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| 1/2" Rch. Cyl.                      |                |               |               |               |               | <b>Sedan 1A</b>                     |                |               |               |               |               |
| LycO GO-480-G (295 hp)              | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> | Cont E-165 (165 hp)                 | 12             | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| <b>Strato Courier</b>               |                |               |               |               |               | <b>McCULLOCH</b>                    |                |               |               |               |               |
| 1/2" Rch. Cyl.                      |                |               |               |               |               | <b>J-2</b>                          |                |               | REM37BY       | <b>REM40E</b> |               |
| LycO GSO-480-A (340 hp)             | 12             | RHM38E        | REM38E        | RHM38S        | <b>REM38S</b> | LycO O-360-A (180 hp)               | 8              | RHM40E        | REM38E        | RHM38S        | REM38S        |
| <b>Strato Courier</b>               |                |               |               |               |               | <b>MAULE</b>                        |                |               |               |               |               |
| 13/16" Rch. Cyl.                    |                |               |               |               |               | <b>M4 Astro Rocket</b>              |                |               |               |               |               |
| LycO GSO-480-A (340 hp)             | 12             | RHB37E        |               | <b>RHB36S</b> |               | Frank 6A-335B (180 hp)              | 12             | <b>RHB32E</b> |               | RHB32S        |               |
| <b>Caballero</b>                    |                |               |               |               |               | <b>M4 Jetasen</b>                   |                |               | <b>REM40E</b> |               |               |
| LycO O-540-A (250 hp)               | 12             | RHM40E        | REM40E        | RHM38S        | REM38S        | Cont O-300A (145 hp)                | 12             | RHM40E        | REM38E        | RHM38S        | REM38S        |
| <b>Helio 700</b>                    |                |               |               |               |               | <b>M4 Rocket</b>                    |                |               |               |               |               |
| LycO TIO-540-J2BD (350 hp)          | 12             | RHB37E        |               | RHB36S        |               | Cont IO-360-A (210 hp)              | 12             | <b>RHM38E</b> | REM38E        | RHM38S        | REM38S        |
| <b>Helio 800</b>                    |                |               |               |               |               | <b>M4 Strata Rocket</b>             |                |               |               |               |               |
| LycO IO-720-A1B                     |                |               |               |               |               | Frank 6A-350C (220 hp)              | 12             | <b>RHB32E</b> |               | RHB32S        |               |
| (400 hp) (Long Reach)               | 16             | RHB37E        | REB37E        | <b>RHB36S</b> |               | <b>M5-180C, MX7-180</b>             |                |               |               |               |               |
| <b>Helio 800</b>                    |                |               |               |               |               | LycO O-360-C, O-360-C1F             |                |               |               |               |               |
| LycO IO-720-A1B                     |                |               |               |               |               | (180 hp)                            | 8              | RHM40E        | <b>REM40E</b> | RHM38S        | REM38S        |
| (400 hp) (Short Reach)              | 16             | RHB32E        | REB32E        | RHB32S        | REB36S        | <b>M5-210C</b>                      |                |               |               |               |               |
| <b>Helio Twin</b>                   |                |               |               |               |               | Cont IO-360D (210 hp)               | 12             | <b>RHM38E</b> | REM38E        | RHM38S        | REM38S        |
| 2/LycO O-540-A (250 hp)             | 12             | RHM38E        | REM38E        | <b>RHM38S</b> | REM38S        | <b>M5-210TC</b>                     |                |               |               |               |               |
| <b>Twin Courier</b>                 |                |               |               |               |               | LycO TO-360-C1A6D                   |                |               |               |               |               |
| 2/LycO O-540-A (250 hp)             | 12             | RHM40E        | REM40E        | RHM38S        | REM38S        | (210 hp)                            | 8              | <b>RHB37E</b> | REB37E        |               |               |
| <b>HILLER</b>                       |                |               |               |               |               | <b>M5-235C, M6-235, M7-235</b>      |                |               |               |               |               |
| <b>UH-12B</b>                       |                |               |               |               |               | LycO O-540-J1A5D                    |                |               | <b>REM40E</b> |               |               |
| Frank 6V4-200 (200 hp)              | 12             |               |               |               |               | (235 hp)                            | 12             | RHM38E        | REM38E        | RHM38S        | REM38S        |
| <b>UH-12C</b>                       |                |               |               |               |               | <b>MX-7-235</b>                     |                |               |               |               |               |
| Frank 6V-335 (210 hp)               | 12             |               |               |               |               | LycO O-540-W1A5D                    |                |               | <b>REM40E</b> |               |               |
|                                     |                |               |               |               |               | (235 hp)                            | 12             | RHM38E        | REM38E        | RHM38S        | REM38S        |

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# Spark Plugs

## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications           | Plugs Per Eng. | Massive  |                   | Fine Wire |         | U.S. Aircraft/Engine Specifications    | Plugs Per Eng. | Massive  |         | Fine Wire |         |
|-----------------------------------------------|----------------|----------|-------------------|-----------|---------|----------------------------------------|----------------|----------|---------|-----------|---------|
|                                               |                | Shielded |                   |           |         |                                        |                | Shielded |         |           |         |
|                                               |                | 3/4"-20  | 5/8"-24           | 3/4"-20   | 5/8"-24 |                                        |                | 3/4"-20  | 5/8"-24 | 3/4"-20   | 5/8"-24 |
| MEYERS                                        |                |          |                   |           |         | H                                      |                |          |         |           |         |
| MAC-145                                       |                |          |                   |           |         | Cont IO-520 (285 hp)                   | 12             | RHB32E   |         | RHB32S    |         |
| Cont C-145 (145 hp)                           | 12             | RHM40E   | REM37BY<br>REM40E | RHM38S    | REM38S  | PIPER                                  |                |          |         |           |         |
| 200                                           |                | RHM40E   | REM40E            |           |         | Cub J3, J4, J5, PA-11, PA-17           |                |          |         |           |         |
| Cont O-470-M (240 hp)                         | 12             | RHM38E   |                   | RHM38S    | REM38S  | Cont A-65 (65 hp)                      |                |          | REM37BY |           |         |
| 200A, B, C                                    |                |          |                   |           |         | C-75 (75 hp)                           | 8              | RHM40E   | REM40E  |           |         |
| Cont IO-470-D (260 hp)                        | 12             | RHB32E   |                   | RHB32S    |         | J3, J4, J5, PA-15                      |                |          |         |           |         |
| MOONEY                                        |                |          |                   |           |         | LycO O-145 (65 hp)                     | 8              | RHM40E   | REM40E  |           |         |
| M18C, M18L                                    |                |          |                   |           |         | PA-12, PA-14, PA-16                    |                |          |         |           |         |
| Cont A-65 (65 hp)                             |                |          | REM37BY           |           |         | LycO O-235 (115 hp)                    | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-145 (65 hp)                            | 8              | RHM40E   | REM40E            |           |         | Super Cub PA-18 "95"                   |                |          | REM37BY |           |         |
| Cadet                                         |                |          | REM37BY           |           |         | Cont C-90 (95 hp)                      | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| Cont C-90 (95 hp)                             | 8              | RHM40E   | REM40E            | RHM38S    | REM38S  | PA-18 "105"                            |                |          |         |           |         |
| Encore                                        |                |          |                   |           |         | LycO O-235 (105 hp)                    | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| TSIO-360 (220 hp)                             |                | RHM38E   | REM38E            | RHM38S    | REM38S  | PA-18 "125"                            |                |          |         |           |         |
| M20                                           |                |          | REM37BY           |           |         | LycO O-235 (105 hp)                    | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-320-A (150 hp)                         | 8              | RHM40E   | REM40E            | RHM38S    | REM38S  | PA-18 "135"                            |                |          |         |           |         |
| M20A                                          |                |          | REM37BY           |           |         | LycO O-290-D2 (135 hp)                 | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-360-A                                  |                | RHM40E   | REM40E            |           |         | PA-18 "150"                            |                |          | REM37BY |           |         |
| LycO O-360-A1D (180 hp)                       | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | LycO O-320-A (150 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| M20B Mark 21                                  |                |          | REM37BY           |           |         | Pacer PA-20 "115"                      |                |          |         |           |         |
| LycO O-360-A                                  |                | RHM40E   | REM40E            | RHM38S    |         | LycO O-235-C (115 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-360-A1D (180 hp)                       | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | PA-20 "125"                            |                |          |         |           |         |
| M20C Ranger Mark 21                           |                |          | REM37BY           |           |         | LycO O-290-D (125 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-360-A1D (180 hp)                       | 8              | RHM40E   | REM40E            |           |         | PA-20 "135"                            |                |          |         |           |         |
| M20D Master                                   |                |          | REM37BY           |           |         | LycO O-290-D2 (135 hp)                 | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO O-360-A                                  |                | RHM40E   | REM40E            |           |         | PA-22 "108" Colt                       |                |          |         |           |         |
| LycO O-360-A2D (180 hp)                       | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | LycO O-235-C (108 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| M20E Chaparral                                |                |          |                   |           |         | Tri-Pacer PA-22 "135"                  |                |          |         |           |         |
| Super 21                                      |                |          |                   |           |         | LycO O-290-D2 (135 hp)                 | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO IO-360-A1D (200 hp)                      | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | PA-22 "150"                            |                |          | REM37BY |           |         |
| M20F Executive                                |                |          | REM38E            | RHM38S    | REM38S  | LycO O-320-A (150 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO IO-360-A1A (200 hp)                      | 8              | RHM40E   | REM37BY           |           |         | PA-22 "160"                            |                |          |         |           |         |
| M20G Statesman                                |                |          | REM40E            |           |         | LycO O-320-B (160 hp)                  | 8              | RHM40E   | REM38E  | RHM38S    | REM38S  |
| LycO O-360-A (180 hp)                         | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | Apache PA-23 "150"                     |                |          | REM37BY |           |         |
| M20J-201, 205-MSE                             |                |          |                   |           |         | 2/LycO O-320-A (150 hp)                | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| LycO IO-360-A3B6D (200 hp)                    | 8              | RHM38E   | REM38E            | RHM38S    | REM38S  | PA-23 "160"                            |                |          | REM38E  |           |         |
| M20K-231                                      |                |          |                   |           |         | LycO O-320-B (160 hp)                  | 8              | RHM38E   | REM37BY | RHM38S    | REM38S  |
| Cont TSIO-360-B, GB1,-GB3, -GB4, LB1 (210 hp) | 12             | RHM38E   | REM38E            | RHM38S    | REM38S  | PA-23 "235"                            |                |          |         |           |         |
| M20K-252, TSE                                 |                |          |                   |           |         | 2/LycO O-540-B (235 hp)                | 12             | RHM40E   | REM40E  | RHM38S    | REM38S  |
| Cont TSIO-360-MB1 (210 hp)                    | 12             | RHM38E   |                   | RHM38S    |         | Aztec PA-23 "250"                      |                |          | REM40E  |           |         |
| M20M-TLS Bravo                                |                |          |                   |           |         | 2/LycO O-540-A (250 hp)                | 12             | RHM38E   | REM38E  | RHM38S    | REM38S  |
| LycO TIO-540-AF1A (270 hp)                    | 12             | RHB37E   |                   | RHB36S    |         | Aztec C, D, E, F, PA-23 "250"          |                |          |         |           |         |
| M-20R Ovation                                 |                |          |                   |           |         | 2/LycO IO-540-C (250 hp) (Short Reach) | 12             | RHM40E   | REM40E  | RHM38S    | REM38S  |
| TCM-IO-550G (5)                               | 12             | RHB32E   |                   | RHB32S    |         | Aztec - Turbo-Blown                    |                |          |         |           |         |
| M20S Eagle                                    |                |          |                   |           |         | 2/LycO IO-540-J (250 hp)               | 12             | RHB32E   | REB37E  | RHB32S    | REB36S  |
| IO-550G (244 hp)                              |                | RHB32E   |                   | RHB36S    |         | Aztec C,D, E, F, PA-23 "250"           |                |          |         |           |         |
| M22 Mustang                                   |                |          |                   |           |         | 2/LycO TIO-540-C (250 hp) (Long Reach) | 12             | RHB37E   | REB37E  | RHB36S    | REB36S  |
| LycO TIO-541-A1A (310 hp)                     | 12             | RHB37E   |                   | RHB32S    |         | Comanche PA-24 "180"                   |                |          |         |           |         |
| NAVION                                        |                |          |                   |           |         | LycO O-360-A (180 hp)                  | 8              | RHM40E   | REM40E  | RHM38S    | REM38S  |
| A                                             |                |          |                   |           |         | PA-24 "250"                            |                |          |         |           |         |
| Cont E-185 (205 hp)                           | 12             | RHM40E   | REM40E            | RHM38S    | REM38S  | LycO O-540-A (250 hp)                  | 12             | RHM40E   | REM40E  | RHM38S    | REM38S  |
| B                                             |                |          |                   |           |         | IO-540-C (250 hp)                      |                | RHM38E   | REM38E  | RHM38S    | REM38S  |
| LycO GO-435C (260 hp)                         | 12             | RHM38E   | REM40E            | RHM38S    | REM38S  |                                        |                |          |         |           |         |
| D                                             |                |          |                   |           |         |                                        |                |          |         |           |         |
| Cont O-470-P (240 hp)                         | 12             | RHM40E   | REM40E            | RHM38S    | REM38S  |                                        |                |          |         |           |         |
| E                                             |                |          |                   |           |         |                                        |                |          |         |           |         |
| Cont IO-470-C (250 hp)                        | 12             | RHM40E   | REM40E            | RHM38S    | REM38S  |                                        |                |          |         |           |         |
| F, G                                          |                |          |                   |           |         |                                        |                |          |         |           |         |
| Cont IO-470-H (260 hp)                        | 12             | RHB32E   |                   | RHB36S    |         |                                        |                |          |         |           |         |

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# Spark Plugs



## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications                        | Plugs Per Eng. | Massive          |                          | Fine Wire               |         | U.S. Aircraft/Engine Specifications          | Plugs Per Eng. | Massive                 |                          | Fine Wire               |               |
|------------------------------------------------------------|----------------|------------------|--------------------------|-------------------------|---------|----------------------------------------------|----------------|-------------------------|--------------------------|-------------------------|---------------|
|                                                            |                | Shielded         |                          |                         |         |                                              |                | Shielded                |                          |                         |               |
|                                                            |                | 3/4"-20          | 5/8"-24                  | 3/4"-20                 | 5/8"-24 |                                              |                | 3/4"-20                 | 5/8"-24                  | 3/4"-20                 | 5/8"-24       |
| <b>PIPER (Cont'd)</b>                                      |                |                  |                          |                         |         | <b>Mojave (PA-31P-350)</b>                   |                |                         |                          |                         |               |
| <b>PA-24 "260", PA24B, PA24C</b>                           |                |                  |                          |                         |         | 2/LycO TIO & LTIO-540-V2AD (360 hp)          | 12             | RHB37E<br>RHB32E        |                          | RHB36S<br><b>RHB32S</b> |               |
| LycO IO-540-B, -D, -N (260 hp)                             | 12             | RHM40E<br>RHM38E | REM40E<br><b>REM38E</b>  | RHM38S                  | REM38S  | <b>Cherokee Six PA-32 "260"</b>              | 12             | RHM40E<br>RHM38E        | REM40E<br><b>REM38E</b>  | RHM38S                  | REM38S        |
| <b>PA-24 "260" Turbo</b>                                   |                |                  |                          |                         |         | LycO O-540-E4B5 (260 hp)                     | 12             | RHM40E<br>RHM38E        | <b>REM38E</b>            | RHM38S                  | REM38S        |
| LycO IO-540-R1A5 (260 hp)                                  | 12             | RHB32E<br>RHB37E | REB32E<br>REB37E         | RHB32S<br><b>RHB36S</b> | REB36S  | <b>Cherokee Six PA-32 "300"</b>              | 12             | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| <b>PA-24 "400"</b>                                         |                |                  |                          |                         |         | LycO IO-540-K1A5 (300 hp)                    | 12             | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| LycO IO-720-A (400 hp)                                     | 16             | RHM38E           |                          | <b>RHM38S</b>           |         | <b>Cherokee Lance PA-32 "300"</b>            |                |                         |                          |                         |               |
| <b>Pawnee PA-25 "150"</b>                                  |                |                  |                          |                         |         | LycO IO-540-K1A5D (300 hp)                   | 12             | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| LycO O-320-A (150 hp)                                      | 8              | RHM40E           | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S  | <b>Cherokee Lance II PA-32 "300" R</b>       |                |                         |                          |                         |               |
| <b>PA-25 "235"</b>                                         |                |                  |                          |                         |         | LycO IO-540-K1G5D (300 hp)                   | 12             | <b>RHM38E</b>           | REM38E                   | RHM38S                  | REM38S        |
| LycO O-540-B (235 hp)                                      | 12             | RHM40E           | <b>REM40E</b>            | RHM38S                  | REM38S  | <b>PA-32RT-300T Turbo Lance</b>              |                |                         |                          |                         |               |
| <b>PA-25 "260"</b>                                         |                |                  |                          |                         |         | LycO TIO-540-S1AD (300 hp)                   | 12             | <b>RHB37E</b>           |                          | RHB36S                  |               |
| LycO O-540-G (260 hp)                                      | 12             | RHM40E<br>RHM38E | REM40E<br><b>REM38E</b>  | RHM38S                  | REM38S  | <b>Saratoga PA-32-301</b>                    |                |                         |                          |                         |               |
| <b>Cherokee PA-28 "140"</b>                                |                |                  |                          |                         |         | LycO IO-540-K1G5 (300 hp)                    | 12             | <b>RHB37E</b>           |                          | RHB36S                  |               |
| LycO O-320-E (140 hp)                                      | 8              | RHM40E           | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S  | <b>Turbo-Saratoga PA-32-301T</b>             | 12             | <b>RHB37E</b><br>RHB32E | REB37E<br>REB32E         | RHB36S<br>RHB32S        | REB36S        |
| <b>PA-28 "150" Flight Liner 2+2 Cruiser, Warrior "151"</b> |                |                  |                          |                         |         | LycO TIO-540-S1AD (300 hp)                   | 12             | <b>RHB37E</b><br>RHB32E | REB37E<br>REB32E         | RHB36S<br>RHB32S        | REB36S        |
| O-320-A, -E (150 hp)                                       | 8              | RHM40E           | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S  | <b>Saratoga SP PA-32R-301</b>                | 12             | <b>RHM38E</b>           | REM38E                   | RHM38S                  | REM38S        |
| <b>PA-28 Warrior II "161" Cadet</b>                        |                |                  |                          |                         |         | LycO IO-540-K1G5 (300 hp)                    | 12             | <b>RHB37E</b><br>RHB32E | REB37E<br>REB32E         | RHB36S<br>RHB32S        | REB36S        |
| LycO O-320-B, -D (160 hp)                                  | 8              | RHM40E<br>RHM38E | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S  | <b>Turbo-Saratoga SP PA-32R-301T</b>         |                |                         |                          |                         |               |
| <b>PA-28 "180" Challenger, Archer</b>                      |                |                  |                          |                         |         | LycO TIO-540-S1AD (300 hp)                   | 12             | <b>RHB37E</b><br>RHB32E | REB37E<br>REB32E         | RHB36S<br>RHB32S        | REB36S        |
| LycO O-360-A (180 hp)                                      | 8              | RHM40E<br>RHM38E | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S  | <b>Seneca PA-34</b>                          | 8              | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| <b>PA-28 "181" Archer II</b>                               |                |                  |                          |                         |         | 2/LycO LIO-360-C & IO-360-C (200 hp)         | 8              | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| LycO O-360-A (180 hp)                                      | 8              | RHM40E<br>RHM38E | REM40E<br><b>REM38E</b>  | RHM38S                  | REM38S  | <b>Seneca II PA-34-200T</b>                  | 12             | <b>RHM38E</b>           |                          | RHM38S                  |               |
| <b>PA-28R "180" Arrow</b>                                  |                |                  |                          |                         |         | 2/Cont TSIO-360-E, EB & LTSIO-360-E (200 hp) | 12             | <b>RHM38E</b>           |                          | RHM38S                  |               |
| LycO IO-360-B (180 hp)                                     | 8              | RHM40E<br>RHM38E | REM40E<br><b>REM38E</b>  | RHM38S                  | REM38S  | <b>Seneca III PA-34-220T</b>                 | 12             | <b>RHM38E</b>           |                          | RHM38S                  |               |
| <b>PA-28R Arrow II, III, IV "200"</b>                      |                |                  |                          |                         |         | 2/Cont TSIO-360-KB & LTSIO-360-KB (220 hp)   | 12             | <b>RHM38E</b>           |                          | RHM38S                  |               |
| LycO IO-360-C (200 hp)                                     | 8              | RHM38E           | <b>REM38E</b>            | RHM38S                  | REM38S  | <b>Pawnee Brave PA-36</b>                    | 12             | <b>RHU27E</b>           |                          |                         |               |
| <b>PA-28R Turbo Arrow III, IV</b>                          |                |                  |                          |                         |         | Cont 6-285-B (285 hp) Tierra Engine          |                |                         |                          |                         |               |
| Cont TSIO-360F, FB (200 hp)                                | 12             | <b>RHM38E</b>    | REM38E                   | RHM38S                  | REM38S  | <b>Pawnee Brave PA-36</b>                    | 12             | RHM38E                  | <b>REM38E</b>            | RHM38S                  | REM38S        |
| <b>PA-28 "235" Charger, Pathfinder</b>                     |                |                  |                          |                         |         | LycO IO-540-K1G5 (300 hp)                    | 12             | RHB32E                  | <b>REM38E</b>            | RHB32S                  | REB36S        |
| LycO O-540-B (235 hp)                                      | 12             | RHM40E           | <b>REM40E</b>            | RHM38S                  | REM38S  | <b>Pawnee Brave PA-36</b>                    | 16             | <b>RHB37E</b>           | REB37E                   | RHB36S                  | REB36S        |
| <b>PA-28 "236" Dakota</b>                                  |                |                  |                          |                         |         | LycO IO-720-D1CD (375 hp)                    |                |                         |                          |                         |               |
| LycO O-540-J3A5D (235 hp)                                  | 12             | RHM40E<br>RHM38E | REM40E<br>REM38E         | RHM38S                  | REM38S  | <b>Twin Comanche PA-39</b>                   | 8              | RHM40E<br>RHM38E        | REM40E<br>REM38E         | RHM38S                  | <b>REM38S</b> |
| <b>PA-28-201T Turbo Dakota</b>                             |                |                  |                          |                         |         | 2/LycO IO-320-B & LIO-320-B (160 hp)         |                |                         |                          |                         |               |
| Cont TSIO-360-FB (200 hp)                                  | 12             | <b>RHM38E</b>    |                          | RHM38S                  |         | <b>Twin Comanche PA-39 Turbo</b>             | 8              | RHB37E                  | REB37E                   | RHB36S                  | <b>REB36S</b> |
| <b>Twin Comanche PA-30 "160"</b>                           |                |                  |                          |                         |         | 2/LycO LIO-320-C & IO-320-C (160 hp)         |                |                         |                          |                         |               |
| 2/LycO IO-320-B (160 hp)                                   | 8              | RHM40E<br>RHM38E | REM37BY<br>REM38E        | RHM38S                  | REM38S  | <b>PA-40</b>                                 | 8              | RHM40E<br>RHM38E        | REM37BY<br><b>REM40E</b> | RHM38S                  | REM38S        |
| <b>Navajo PA-31 "300"</b>                                  |                |                  |                          |                         |         | 2/LycO IO-320-B & LIO-320B (160 hp)          |                |                         |                          |                         |               |
| 2/LycO IO-540-M (300 hp)                                   | 12             | <b>RHB37E</b>    | REB37E                   | RHB36S                  | REB36S  | <b>Tomahawk-Trainer PA-38</b>                | 8              | RHM40E<br>RHM38E        | REM40E<br>REM38E         | RHM38S                  | REM38S        |
| <b>Navajo PA-31</b>                                        |                |                  |                          |                         |         | LycO O-235-L2C (112 hp)                      |                |                         |                          |                         |               |
| 2/LycO TIO-540-A1A, A2C (310 hp)                           | 12             | RHB37E<br>RHB32E |                          | <b>RHB36S</b><br>RHB32S |         | <b>Seminole PA-44-180</b>                    | 8              | RHM40E<br><b>RHM38E</b> | REM40E<br>REM38E         | RHM38S                  | REM38S        |
| <b>Navajo PA-31-325C/R</b>                                 |                |                  |                          |                         |         | 2/LycO LO-360-E1A6D & O-360-E1A6D (180 hp)   |                |                         |                          |                         |               |
| 2/LycO TIO-540-F2BD & LTIO-540-F2BD (325 hp)               | 12             | RHB37E<br>RHB32E |                          | <b>RHB36S</b><br>RHB32S |         |                                              |                |                         |                          |                         |               |
| <b>Navajo PA-31 Chieftain</b>                              |                |                  |                          |                         |         |                                              |                |                         |                          |                         |               |
| 2/LycO TIO-540-J & LTIO-540-J (350 hp)                     | 12             | RHB37E<br>RHB32E |                          | <b>RHB36S</b><br>RHB32S |         |                                              |                |                         |                          |                         |               |
| <b>PAT-1020</b>                                            |                |                  |                          |                         |         |                                              |                |                         |                          |                         |               |
| LycO TIO-540-J2B (350 hp)                                  | 12             | RHB37E           |                          | <b>RHB36S</b>           |         |                                              |                |                         |                          |                         |               |
| <b>Navajo PA-31P</b>                                       |                |                  |                          |                         |         |                                              |                |                         |                          |                         |               |
| 2/LycO TIGO-541-E1A (425 hp)                               | 12             | RHB37E<br>RHB32E |                          | <b>RHB36S</b><br>RHB32S |         |                                              |                |                         |                          |                         |               |

Most generally used plugs shown in **red** type. For Unshielded Spark Plugs - see pgs. 13-16. Plug Listings taken from FAA Approved Data. Please consult your aviation distributor for availability on these items.

**Contact your preferred distributor for Champion factory FAA certified servicing of your spark plugs. 11**



# Spark Plugs

## Popular Aircraft and Engines

| U.S. Aircraft/Engine Specifications          | Plugs Per Eng. | Massive                 |                         | Fine Wire        |               | U.S. Aircraft/Engine Specifications | Plugs Per Eng. | Massive                 |                  | Fine Wire        |         |
|----------------------------------------------|----------------|-------------------------|-------------------------|------------------|---------------|-------------------------------------|----------------|-------------------------|------------------|------------------|---------|
|                                              |                | Shielded                |                         |                  |               |                                     |                | Shielded                |                  |                  |         |
|                                              |                | 3/4"-20                 | 5/8"-24                 | 3/4"-20          | 5/8"-24       |                                     |                | 3/4"-20                 | 5/8"-24          | 3/4"-20          | 5/8"-24 |
| <b>PIPER (Cont'd)</b>                        |                |                         |                         |                  |               | <b>SIKORSKY</b>                     |                |                         |                  |                  |         |
| <b>Turbo-Seminole</b>                        |                |                         |                         |                  |               | <b>S-51</b>                         |                |                         | REM37BY          |                  |         |
| <b>PA-44-180T</b>                            |                |                         |                         |                  |               | P & W R-985 (450 hp)                | 18             | RHM38E                  | <b>REM40E</b>    | RHM38S           | REM38S  |
| 2/LycO TO-360-E1A6D & LTO-360-E1A6D (180 hp) | 8              | <b>RHB37E</b><br>RHB32E | REB37E<br>REB32E        | RHB36S<br>RHB32S | REB36S        | <b>S-55A</b>                        |                |                         |                  |                  |         |
| <b>Malibu PA-46-301-P</b>                    |                |                         |                         | RHB36S           |               | Wright R-1300 (800 hp)              | 14             | RHB37E                  | <b>REB37E</b>    | RHB36S           | REB36S  |
| Cont TSIO-520-BE (310 hp)                    | 12             | <b>RHB32E</b>           |                         | RHB32S           |               | <b>S-55C</b>                        |                |                         | REM37BY          |                  |         |
| <b>Malibu Mirage</b>                         |                |                         |                         |                  |               | P & W R-1340 (600 hp)               | 18             | RHM40E                  | <b>REM40E</b>    | RHM38S           | REM38S  |
| <b>PA-46-350-P</b>                           |                |                         |                         | <b>RHB36S</b>    |               | <b>S-56</b>                         |                |                         |                  |                  |         |
| LycO TIO-540-AE2A (350 hp)                   | 12             | RHB37E<br>RHB32E        |                         | RHB32S           |               | 2/P & W R-2800-50 (1800 hp)         | 36             | RHB32E<br><b>RHB37E</b> | REB32E<br>REB37E | RHB32S<br>RHB36S |         |
| <b>PA-60-600, 600A Aerostar</b>              |                |                         |                         |                  |               | <b>S-58</b>                         |                |                         |                  |                  |         |
| 2/LycO IO-540-G1B5, K1J5 (290 hp)            | 12             | <b>RHM38E</b>           |                         | RHM38S           |               | Wright R-1820-84 (1525 hp)          | 18             | <b>RHB32E</b>           |                  | RHB32S           |         |
| <b>PA-60-601, 601B Aerostar</b>              |                |                         |                         | <b>RHB36S</b>    |               | <b>STINSON</b>                      |                |                         |                  |                  |         |
| 2/LycO IO-540-P1A5, S1A5 (290 hp)            | 12             | RHB37E<br>RHB32E        |                         | RHB32S           |               | <b>Reliant V-77</b>                 |                |                         |                  |                  |         |
| <b>PA-60-601P Aerostar</b>                   |                |                         |                         | <b>RHB36S</b>    |               | LycO R-680-13 (300 hp)              | 18             | RHM40E                  | <b>REM40E</b>    | RHM38S           | REM38S  |
| 2/LycO IO-540-S1A5 (290 hp)                  | 12             | RHB37E<br>RHB32E        |                         | RHB32S           |               | <b>Vigilant V-74</b>                |                |                         |                  |                  |         |
| <b>PA-60-602P Aerostar</b>                   |                |                         |                         | <b>RHB36S</b>    |               | LycO R-680-13 (300 hp)              | 18             | RHM40E                  | <b>REM40E</b>    | RHM38S           | REM38S  |
| 2/LycO IO-540-AA1A5 (290 hp)                 | 12             | RHB32E<br>RHB37E        |                         | RHB32S           |               | <b>Sentinel V-76</b>                |                |                         |                  |                  |         |
| <b>PA-60-700P</b>                            |                |                         |                         | <b>RHB36S</b>    |               | LycO O-435-1 (190 hp)               | 12             | RHM40E                  | <b>REM40E</b>    | RHM38S           | REM38S  |
| 2/LycO TIO-540-UJ2A & LTIO-540-U2B (350 hp)  | 12             | RHB37E<br>RHB32E        |                         | RHB32S           |               | <b>105</b>                          |                |                         | <b>REJ38</b>     |                  |         |
| <b>REPUBLIC</b>                              |                |                         |                         |                  |               | Frank 4AC-199-E2 (90 hp)            | 8              |                         |                  |                  |         |
| <b>Seabee RC-3</b>                           |                |                         |                         |                  |               | <b>Voyager 108</b>                  |                |                         | <b>REJ38</b>     |                  |         |
| Frank 6A8-215-B (215 hp)                     | 12             |                         | <b>REJ38</b>            |                  |               | Frank 6A4-150 (150 hp)              | 12             |                         |                  |                  |         |
| <b>ROBINSON</b>                              |                |                         |                         |                  |               | <b>Voyager 108</b>                  |                |                         | <b>REJ38</b>     |                  |         |
| <b>R22</b>                                   |                |                         |                         |                  |               | Frank 6A4-165 (165 hp)              | 12             |                         |                  |                  |         |
| LycO O-320-B (160 hp)                        | 8              | RHM40E<br>RHM38E        | REM38E<br><b>REM40E</b> | RHM38S           | REM38S        | <b>Voyager 108-5</b>                |                |                         |                  |                  |         |
| <b>R22</b>                                   |                |                         |                         |                  |               | Frank 6A335-B (180 hp)              | 12             | <b>RHB32E</b>           |                  | RHB36S           |         |
| LycO O-320-A (150 hp)                        | 8              | RHM40E                  | <b>REM40E</b>           | RHM38S           | REM38S        | <b>TAYLORCRAFT</b>                  |                |                         |                  |                  |         |
| <b>R44</b>                                   |                |                         |                         |                  |               | <b>Deluxe BC12D</b>                 |                |                         | REM37BY          |                  |         |
| LycO O-540 (205 hp)                          | 12             | RHM38E                  | <b>REM38E</b>           | RHM38S           | REM38S        | Cont A-65-8 (65 hp)                 | 8              | RHM40E                  | <b>REM40E</b>    |                  |         |
| <b>SCHEUTZON</b>                             |                |                         |                         |                  |               | <b>Sportsman 19</b>                 |                |                         | REM37BY          |                  |         |
| <b>B</b>                                     |                |                         |                         |                  |               | Cont C-85-8 (85 hp)                 | 8              | RHM40E                  | <b>REM40E</b>    |                  |         |
| LycO IVO-360-A (180 hp)                      | 8              | RHB37E                  |                         | <b>RHB36S</b>    |               | <b>F19</b>                          |                |                         | REM37BY          |                  |         |
| <b>SCHWEIZER</b>                             |                |                         |                         |                  |               | Cont O-200-A (100 hp)               | 8              | RHM40E                  | REM40E           | <b>RHM38S</b>    |         |
| <b>269A</b>                                  |                |                         |                         |                  |               | <b>F21B, F22</b>                    |                |                         | <b>REM37BY</b>   |                  |         |
| LycO O-360 (180 hp)                          |                |                         |                         |                  |               | LycO O-235-L2C (118 hp)             | 8              | RHM40E<br>RHM38E        | REM38E<br>REM40E | RHM38S           | REM38S  |
| HO-360-B (180 hp)                            | 8              | RHM40E<br>RHM38E        | REM40E<br>REM38E        | RHM38S           | <b>REM38S</b> | <b>Workhorse 44</b>                 |                |                         |                  |                  |         |
| <b>200</b>                                   |                |                         |                         |                  |               | Wright R-1820-103                   |                |                         |                  |                  |         |
| LycO HIO-360-B (180 hp)                      | 8              | RHM38E                  | <b>REM38E</b>           |                  |               | 977C9HD1                            | 18             | <b>RHB37E</b>           | REB37E           | RHB36S           | REB36S  |
| <b>300</b>                                   |                |                         |                         |                  |               |                                     |                |                         |                  |                  |         |
| LycO HIO-360-A (200 hp)                      | 8              | RHM38E                  | REM38E                  | RHM38S           | <b>REM38S</b> |                                     |                |                         |                  |                  |         |
| <b>300C</b>                                  |                |                         |                         |                  |               |                                     |                |                         |                  |                  |         |
| LycO HIO-360-DIA (190 hp)                    | 8              | RHM38E                  | REM38E                  | RHM38S           | <b>REM38S</b> |                                     |                |                         |                  |                  |         |

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# Spark Plugs



## Spark Plug Application By Engine Manufacturer

| Engine Model                                                     | Standard Massive Electrode<br>Shielded |           | Unshielded | Fine Wire Electrode<br>Shielded |                  |
|------------------------------------------------------------------|----------------------------------------|-----------|------------|---------------------------------|------------------|
|                                                                  | 5/8" - 24                              | 3/4" - 20 |            | 5/8" - 24                       | 3/4" - 20        |
| <b>ALLISON</b><br>V1710                                          | REB37E                                 | RHB37E    |            | REB36S                          |                  |
| <b>FRANKLIN ENGINE CO.</b><br>2A4 Series                         | REJ38                                  |           |            |                                 |                  |
| 2A-120-A, -B                                                     |                                        | RHB32E    |            |                                 | RHB36S           |
| 4A4 Series                                                       | REJ38                                  |           |            |                                 |                  |
| 4AC Series                                                       | REJ38                                  |           |            |                                 |                  |
| 4A-235-B, B3                                                     |                                        | RHB32E    |            | REB36S                          | RHB36S           |
| Sport 4, 4A, 4A1, 4B, 4R                                         |                                        | RHB32E    |            |                                 | RHB36S           |
| 6AC, 6AL, 6AG, 6A4, 6V4 Series                                   | REJ38                                  |           |            |                                 |                  |
| 6A4-200, 6V4-200                                                 | REL37B                                 |           |            |                                 |                  |
| 6V6-245                                                          | REL37B                                 |           |            |                                 |                  |
| 6A8-215                                                          | REJ38                                  |           |            |                                 |                  |
| 6A-335-A, B, 6V335-A, -B                                         | REL37B                                 |           |            | REB36S                          |                  |
| 6AS-335-A, B, 6AS-350-A, -A1                                     |                                        | RHB32E    |            | REB36S                          | RHB36S           |
| 6V335-A1A, A1B                                                   | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S           |
|                                                                  | REB37E                                 | RHB37E    |            |                                 |                  |
| 6VS-335-A, -B                                                    | REB32E                                 | RHB32E    |            | REB36S                          | RHB36S           |
| 6A-350-C1, -C1A, -C2, -C2A, -D, -D1                              |                                        | RHB32E    |            | REB36S                          | RHB36S           |
| 6V-350-A, -B                                                     |                                        | RHB32E    |            | REB36S                          | RHB36S           |
| <b>GROB</b><br>2500 D1/E1                                        |                                        |           |            | REN30S                          |                  |
| <b>GYPSY MAJOR</b>                                               | REL37B                                 |           |            |                                 |                  |
| <b>JACOBS AIRCRAFT ENGINE CO.</b><br>L-4, L-5 & L-6 Series R-755 | REM40E                                 | RHM40E    |            | REM38S                          | RHM38S           |
| R-755S, R-755SM                                                  | REM38E                                 |           |            |                                 |                  |
| <b>KENROYCE-REARWIN All models</b>                               | REM40E                                 | RHM40E    | M41E       |                                 |                  |
| <b>KINNER All models</b>                                         |                                        |           | M41E       |                                 |                  |
| <b>LAMBERT All models</b>                                        |                                        |           | M41E       |                                 |                  |
| <b>LEBLOND All models</b>                                        |                                        |           | M41E       |                                 |                  |
| <b>MENASCO All models except D4</b>                              |                                        |           | M41E       |                                 |                  |
| <b>ORENDA All models</b>                                         |                                        |           |            |                                 | RHB27S           |
| <b>PRATT &amp; WHITNEY</b><br>R-985 (Wasp Jr.), R-1340 (Wasp)    | REM37BY*                               |           |            |                                 |                  |
| R-1830 (Twin Wasp C)                                             | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S           |
| + For Severe Service                                             | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S           |
| R-2000 (Twin Wasp D)                                             | REB32E+                                | RHB32E+   |            |                                 | RHB32S+          |
| R-2800 (Double Wasp) R-2800-97                                   | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S           |
| CA3, CA5, CA15, CA17, CA18, CA19                                 | REB37E                                 | RHB37E    |            |                                 | RHB36S           |
| ++ Rear position front row only                                  | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S           |
| R-4360 (Wasp Major)                                              |                                        | RHB29E++  |            |                                 |                  |
| <b>PEZETEL (WSK)</b>                                             | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S           |
| ASZ-621R, (1000 h. p.), P2L-3S (600 h. p.)                       | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S           |
| <b>RANGER All 18 mm Short Reach</b>                              | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S           |
| <b>ROLLS-ROYCE - Merlin, Griffon</b>                             |                                        |           |            |                                 | RHL27S<br>RHL28S |
| <b>RUSSIAN ENGINES M14 Most Series</b>                           | REL37B                                 |           |            | RVL38S**                        |                  |
| <b>TELEDYNE CONTINENTAL MOTORS</b><br>A-65, A-75                 | REM37BY*                               |           |            |                                 |                  |
| C75, C-85, C-90, C-115, C-125                                    | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S           |
|                                                                  | REM37BY*                               |           |            |                                 |                  |
| E-165, E-185, E-225                                              | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S           |
| E-165, E-185, E-225 (14mm Bushing)                               | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S           |
|                                                                  | REJ38                                  |           |            |                                 |                  |

\* Use REM37BY when encountering lead fouling. \*\* Uses M18x1 barrel thread instead of 5/8"-24

Contact your preferred distributor for Champion factory FAA certified servicing of your spark plugs. **13**



# Spark Plugs

## Spark Plug Application By Engine Manufacturer

| Engine Model                                                                                                                                    | Standard Massive Electrode<br>Shielded |                  | Unshielded | Fine Wire Electrode<br>Shielded |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------|------------|---------------------------------|----------------------------|
|                                                                                                                                                 | 5/8" - 24                              | 3/4" - 20        |            | 5/8" - 24                       | 3/4" - 20                  |
| <b>TELEDYNE CONTINENTAL MOTORS (Cont'd)</b>                                                                                                     |                                        |                  |            |                                 |                            |
| O-200-A, -B, -C, -D                                                                                                                             | REM37BY*<br>REM40E                     | RHM40E           | M41E       | REM38S<br>REM38S                | RHB36S<br>RHM38S           |
| IO-240                                                                                                                                          | REM38E                                 | RHM38E           |            | REM38S                          | RHM38S                     |
| GO-300-A, -B, -C, -D, -E, -F<br>O-300-A, -B, -C, -D, -E, C-145                                                                                  | REM37BY*<br>REM40E<br>REM38E           | RHM40E<br>RHM38E | M41E       | REM38S                          | RHM38S                     |
| IO-346-A, -B                                                                                                                                    | REM40E<br>REM38E                       | RHM40E<br>RHM38E |            | REM38S                          | RHM38S                     |
| IO-360-A, -AB, -C, -CB, -D, -E, -G, -GB, -H, -HB, -J, -JB, -K, -KB                                                                              | REM38E                                 | RHM38E           |            | REM38S                          | RHM38S                     |
| IO-360-B                                                                                                                                        | REM40E                                 | RHM40E           |            | REM38S                          | RHM38S                     |
| TSIO-360-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -G, -GB, -H, -HB, -JG, -K, -KB, -LB, -MB, LTSIO-360-E, -EB, -K, -KB                    | REM38E                                 | RHM38E           |            | REM38S                          | RHM38S                     |
| O-470-2                                                                                                                                         | REM38E                                 | RHM38E           |            | REM38S                          | RHM38S                     |
| O-470-4, -11, -13, -13A, -15                                                                                                                    | REM40E                                 | RHM40E           |            | REM38S                          | RHM38S                     |
| O-470-A, -E, -J, -K, -L, -R, -S                                                                                                                 | REM40E                                 | RHM40E           |            | REM38S                          | RHM38S                     |
| O-470-B, -G, -H, -M, -N, -P                                                                                                                     | REM40E<br>REM38E                       | RHM40E<br>RHM38E |            | REM38S                          | RHM38S                     |
| O-470-T, -U                                                                                                                                     |                                        | RHB32E           |            |                                 | RHB32S                     |
| IO-470-C, -G, -P, -R, -T                                                                                                                        | REM40E<br>REM38E                       | RHM40E<br>RHM38E |            | REM38S                          | RHM38S                     |
| IO-470-J, -K                                                                                                                                    | REM40E                                 | RHM40E           |            | REM38S                          | RHM38S                     |
| IO-470-D, -E, -F, -H, -L, -M, -N, -S, -U, -V, -VO, -LO                                                                                          |                                        | RHB32E           |            |                                 | RHB36S<br>RHB32S           |
| GIO-470-A                                                                                                                                       |                                        | RHB32E           |            |                                 | RHB36S<br>RHB32S           |
| LIO-470-A                                                                                                                                       | REM40E<br>REM38E                       | RHM40E<br>RHM38E |            | REM38S                          | RHM38S                     |
| TSIO-470-B, -C, -D                                                                                                                              |                                        | RHB32E           |            |                                 | RHB36S<br>RHB32S<br>RHB36S |
| IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB                                                                       |                                        | RHB32E           |            | RHB32S                          |                            |
| TSIO-520-A, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -F, -G, -H, -J, -JB, -K, -KB, -L, -M, -N, -NB, -P, -R, -T, -U, -UB, -V, -VB, -WB, -AE, -AF |                                        |                  |            |                                 | RHB32S<br>RHB36S           |
| LTSIO-520-AE                                                                                                                                    |                                        | RHB32E           |            |                                 | RHB32S<br>RHB36S           |
| GTSIO-520-C, -D, -E, -F, -G, -H, -K, -L, -M, -N                                                                                                 |                                        | RHB32E           |            |                                 | RHB32S<br>RHB36S           |
| TSIO-550-A, -B, -C,                                                                                                                             |                                        | RHB32E           |            |                                 | RHB32S                     |
| IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R                                                                                                |                                        | RHB32E           |            |                                 | RHB36S<br>RHB32S           |
| TSIOL-550-A, -B                                                                                                                                 |                                        | RHU32E           |            |                                 | RHU32S                     |
| 6-285-B, -BA, -C, -CA, 6-320-A, -B                                                                                                              |                                        | RHU27E           |            |                                 |                            |
| W-670                                                                                                                                           | REM40E                                 | RHM40E           | M41E       | REM38S                          | RHM38S                     |
| R9A                                                                                                                                             | REB37E                                 | RHB37E           |            | REB36S                          | RHB36S                     |
| <b>TEXTRON LYCOMING</b>                                                                                                                         |                                        |                  |            |                                 |                            |
| O-145, GO-145                                                                                                                                   |                                        |                  | M41E       |                                 |                            |
| O-235-C, -E, -H                                                                                                                                 | REM40E<br>REM38E<br>REM37BY*           | RHM40E           | M41E       | REM38S                          | RHM38S                     |
| O-235-F, -G, -J                                                                                                                                 |                                        |                  |            | REM38S                          |                            |
| O-235-K, -L, -M, -N, -P                                                                                                                         | REM40E<br>REM38E<br>REM37BY*           | RHM40E<br>RHM38E |            | REM38S                          | RHM38S                     |
| O-290 Series                                                                                                                                    | REM40E<br>REM38E<br>REM37BY*           | RHM40E           | M41E       | REM38S                          | RHM38S                     |
| O-320-A, -C, -E                                                                                                                                 | REM37BY*                               | RHM40E           | M41E       | REM38S                          | RHM38S                     |
| O-320-B, -D, -H                                                                                                                                 | REM40E                                 |                  |            |                                 |                            |
| AIO-320, LIO-320-B, IO-320-B, -C, -D, AEIO-320-A, -B, -C, -D                                                                                    | REM38E                                 | RHM40E           |            |                                 |                            |

\* Use REM37BY when encountering lead fouling.

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# Spark Plugs



## Spark Plug Application By Engine Manufacturer

| Engine Model                                   | Standard Massive Electrode |           | Unshielded | Fine Wire Electrode |           |
|------------------------------------------------|----------------------------|-----------|------------|---------------------|-----------|
|                                                | Shielded                   |           |            | Shielded            |           |
|                                                | 5/8" - 24                  | 3/4" - 20 |            | 5/8" - 24           | 3/4" - 20 |
| TEXTRON LYCOMING (Cont'd)                      |                            |           |            |                     |           |
|                                                | REM37BY*<br>REM40E         | RHM38E    |            | REM38S              | RHM38S    |
| IO-320-A, -B, -D, -E                           |                            |           |            |                     |           |
| AEIO-320-E                                     | REM37BY*                   | RHM40E    |            | REM38S              | RHM38S    |
| IO-320-C, -F, LIO-320-C (Long Reach)           | REB37E                     | RHB37E    |            | REB36S              | RHB36S    |
|                                                | REM40E                     | RHM40E    |            |                     |           |
| O-340-A                                        | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| O-340-B                                        | REM40E                     | RHM40E    |            | REM38S              | RHM38S    |
| O-360-A, -C, -E, -F                            |                            |           |            |                     |           |
| IO-360-B, -E, -F, -H, -L                       | REM38E                     | RHM40E    |            |                     |           |
| AEIO-360-B, -C, -H, HO-360-A                   | REM37BY*                   | RHM38E    |            | REM38S              | RHM38S    |
|                                                | REM40E                     |           |            |                     |           |
| O-360-B, -D                                    | REM37BY*                   | RHM40E    |            | REM38S              | RHM38S    |
|                                                | REM38E                     |           |            |                     |           |
| IO-360-A, -C, -D, -J, LIO-360-E                | REM37BY*                   | RHM38E    |            | REM38S              | RHM38S    |
| LO-360-A1G6D, O-360-E1A6D                      | REM40E                     |           |            |                     |           |
| LO-360-E1A6D                                   | REM38E                     | RHM40E    |            |                     |           |
| LO-360-C                                       | REM37BY*                   | RHM38E    |            | REM38S              | RHM38S    |
| IO-360-A, IO-360-C1F                           |                            |           |            |                     |           |
| IO-360-F (Long Reach)                          |                            |           |            |                     |           |
| IVO-360                                        | REB37E                     | RHB37E    |            | REB36S              | RHB36S    |
| AIO-360-A,                                     | REM38E                     |           |            |                     |           |
| LIO-360-C, AEIO-360-A                          | REM37BY*                   | RHM38E    |            | REM38S              | RHM38S    |
| HIO-360-A, -D                                  | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
|                                                | REM40E                     | RHM40E    |            |                     |           |
| HO-360-B, HIO-360-A, -B                        | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| TIO-360-A, -B, AEIO-360-A (Long Reach)         | REB37E                     | RHB37E    |            | REB36S              | RHB36S    |
| HIO-360-E1AD, -E1BD, -F1AD                     |                            |           |            |                     |           |
| LHIO-360-F1AD, IVO-360-A                       | REB32E                     | RHB32E    |            |                     | RHB32S    |
| TO-360-A1A6D, TO-360-C1A6D, TO-360-E           |                            | RHB37E    |            |                     | RHB36S    |
| TO-360-F1A6D, LTO-360-A1A6D, LTO-360-E         | REB37E                     | RHB32E    |            | REB36S              | RHB32S    |
|                                                | REM40E                     | RHM40E    |            |                     |           |
| VO-360-A, -B                                   | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
|                                                | REM40E                     |           |            |                     |           |
| O-435-A, -C                                    | REM38E                     | RHM40E    |            | REM38S              | RHM38S    |
|                                                | REM40E                     | RHM40E    |            |                     |           |
| O-435-K, K1                                    | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| GO-435-C, -D Series                            | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| VO-435-A, TVO-435-A (Short Reach)              | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| VO-435-A, -B (Long Reach)                      |                            |           |            |                     |           |
| TVO-435-A, -B, -C, -D, -E, -F, -G (Long Reach) | REB37E                     | RHB37E    |            |                     | RHB36S    |
| O-435-23-25                                    | REB32E                     | RHB32E    |            | REB36S              | RHB32S    |
|                                                | REM40E                     | RHM40E    |            |                     |           |
| GO-480-B, -D, -F                               | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| GO-480-C, -G (Short Reach)                     | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
|                                                |                            | RHB37E    |            |                     | RHB36S    |
| GO-480-G1, G2 (Long Reach)                     | REB37E                     | RHB32E    |            | REB36S              | RHB32S    |
| GSO-480-A, -B (Short Reach)                    | REM38E                     | RHM38E    |            | REM38S              | RHM38S    |
| GSO-480-A, -B (Long Reach)                     | REB37E                     | RHB37E    |            | REB36S              | RHB36S    |
| IGSO-480-A (Short Reach)                       | REM38E                     | RHM38E    |            | REM38E              | RHM38S    |
| IGSO-480-A (Long Reach)                        |                            |           |            |                     |           |
| IGO-480-A                                      | REB37E                     | RHB37E    |            |                     | RHB36S    |
| O-480-1-3                                      | REB32E                     | RHB32E    |            | REB36S              | RHB32S    |

\* Use REM37BY when encountering lead fouling.

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# Spark Plugs

## Spark Plug Application By Engine Manufacturer

| Engine Model                                               | Standard Massive Electrode<br>Shielded |           | Unshielded | Fine Wire Electrode<br>Shielded |           |
|------------------------------------------------------------|----------------------------------------|-----------|------------|---------------------------------|-----------|
|                                                            | 5/8" - 24                              | 3/4" - 20 |            | 5/8" - 24                       | 3/4" - 20 |
| <b>TEXTRON LYCOMING (Cont'd)</b>                           |                                        |           |            |                                 |           |
| O-540-A, -D, -E, -F, -G, -H, -J, -J3A5                     | REM40E                                 | RHM40E    |            | REM38S                          | RHM38S    |
|                                                            | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| O-540-B                                                    | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S    |
| IO-540-A, -B, -E, -G, -K, -L, -M, -P, -S, -U (Short Reach) | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| IO-540-C, -D, -J, -N, -T, -V                               | REM40E                                 | RHM40E    |            |                                 |           |
| AEIO-540-D, -L                                             | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| IO-540-AA, -E, -G, -J, -K, -M, -P, -R, -S, -U              | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| O-540-L3C5D, M1B5D (Long Reach)                            | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
| VO-540-A, -B, -C (Short Reach)                             | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| O-540-9                                                    |                                        |           |            |                                 |           |
| VO-540-Series                                              |                                        |           |            |                                 |           |
| IVO-540 Series (Long Reach)                                | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| IGO-540-A, -B (Short Reach)                                | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| IGO-540-A, -B (Long Reach)                                 | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| TIO-540-A, -C, -E, -F, -G, -H, -J, -K, -N, -R, -S, -T      | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| TIVO-540-A                                                 | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
| IGSO-540-B (Short Reach)                                   | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
| IGO-540-A, -B                                              | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| IGSO-540-A, -B (Long Reach)                                | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
|                                                            | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| LTIO-540-F, -J, -N, -R                                     | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
|                                                            | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| TIO-541-A, -E                                              | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
|                                                            | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| TIGO-541-A, -E                                             | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
| IO-580-A                                                   |                                        | RHB37E    |            |                                 |           |
| R-680                                                      | REM40E                                 | RHM40E    |            | REM38S                          | RHM38S    |
| IO-720-A, -B, -C, -D (Short Reach)                         | REM38E                                 | RHM38E    |            | REM38S                          | RHM38S    |
|                                                            | REB37E                                 | RHB37E    |            |                                 | RHB36S    |
| IO-720-A, -B, -C, -D (Long Reach)                          | REB32E                                 | RHB32E    |            | REB36S                          | RHB32S    |
| <b>WARNER (All Models)</b>                                 | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S    |
| <b>WRIGHT AERONAUTICAL</b>                                 |                                        |           |            |                                 |           |
| R-540                                                      | REM40E                                 | RHM40E    |            |                                 |           |
| Whirlwind R-760, R-975 (1/2" Rch.)                         | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S    |
| Cyclone 9N with 1/2" insert depth (R-1820)                 | REM40E                                 | RHM40E    | M41E       | REM38S                          | RHM38S    |
| Whirlwind R-760, R-975 (18mm 13/16" Rch.)                  | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| Cyclone R-1300                                             | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| Cyclone R-1820 Series (Except F & HE)                      | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| Cyclone R-2600 Series                                      | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| Cyclone R-1820-84 (C9HE Series)                            |                                        | RHB32E    |            |                                 | RHB32S    |
| Cyclone R-3350, C18BA, C18BD                               | REB37E                                 | RHB37E    |            | REB36S                          | RHB36S    |
| Cyclone R-3350-C18CB1                                      |                                        | RHB29E    |            |                                 |           |
| Cyclone R-3350-DA1, -2, -3, -4, EA1, -2, -3                |                                        | RHB29E    |            |                                 |           |
| Cyclone R-3350-EA4, -5, -6                                 |                                        | RHB29E    |            |                                 |           |

**Additional R-3350 plugs Available for Racing Applications only - Contact Champion Aerospace LLC Regarding this Application.**

# Spark Plugs



## Other U.S. Aircraft and Piston Aircraft

| Make & Model                 | Engine                      | Plugs Per Eng. | Make & Model                  | Engine                         | Plugs Per Eng. |
|------------------------------|-----------------------------|----------------|-------------------------------|--------------------------------|----------------|
| <b>AERONCA</b>               |                             |                |                               |                                |                |
| LA, LB                       | LeBlond (70 hp), (85 hp)    | 10             | Havoc A20G                    | 2/Wright R-2600-23             | 28             |
| LC                           | Warner Scarab Jr. 50        | 10             | DC-2                          | Wright SGR-1820, F3, F52, 25   | 18             |
| KC                           | Cont A-40                   | 8              | Skytrain DC-3, C49            | 2/Wright R-1820-G102, G202A    | 18             |
| 50-C                         | Cont A-50                   | 8              | DC-3A, C47, C53, C112         | 2/P & W R-1830-90, -92, -94    | 28             |
| 50-F                         | Franklin 4AC-150            | 8              | Skymaster DC-4                | 4/P & W R-2000                 | 28             |
| 59-L                         | LycO O-145                  | 8              | Liftmaster DC-6               | 4/P & W R-2800-CB16, -17       | 36             |
| 60-TF                        | Cont A-65                   | 8              | DC-7                          | 4/Wright R-3350 Compound       | 36             |
| 65-LA                        | LycO O-145                  | 8              | <b>DOWNER</b>                 |                                |                |
| O-58B                        | Cont O-170-3 (Equiv. A65)   | 8              | 14-19                         | LycO O-435-A                   | 12             |
| Champion L-16B               | Cont A-65-8                 | 8              | 14-19-2                       | Cont O-470-K                   | 12             |
| <b>AIRCRAFT MFG. COMPANY</b> |                             |                | 14-19-3                       | Cont IO-470-F                  | 12             |
| Texas Bullet 205             | Cont E-185-1                | 12             | 260B                          | Cont IO-470-F                  | 12             |
| <b>ALON, INC.</b>            |                             |                | Viking 300                    | Cont IO-520-D                  | 12             |
| A-2                          | Cont C-90-16F               | 8              | <b>DOYN AIRCRAFT</b>          |                                |                |
| A-4                          | LycO O-320-A                | 8              | Cessna 150 Modified           | LycO O-320                     | 8              |
| <b>ANDERSON-GREENWOOD</b>    |                             |                | Cessna 177 Modified           | LycO O-360                     | 8              |
| AG-5                         | Cont C-90                   | 8              | <b>FLETCHER</b>               |                                |                |
| <b>BAUMANN</b>               |                             |                | Utility FU-24                 | Cont O-470-E, N                | 12             |
| Brigadier B-290              | Cont C-145-2                | 12             | FU-24A                        | Cont IO-470-D                  | 12             |
| Deluxe Brigadier B-360       | 2/LycO O-360                | 8              | FU-24B                        | Cont GIO-470-A                 | 12             |
| Super Brigadier B-480        | 2/Cont O-470-B              | 12             | <b>FORD</b>                   |                                |                |
| <b>BEE AVIATION</b>          |                             |                | 4-AT-E Trimotor               | 3/Wright R-975                 | 18             |
| Honey Bee                    | Cont A-65                   | 8              | 5-AT-B Trimotor               | 3/P & W R-985                  | 18             |
| Queen Bee                    | LycO O-320                  | 8              | <b>FORNAIRE</b>               |                                |                |
| <b>BOEING</b>                |                             |                | Aircoupe E, G                 | Cont C-75, C-85                | 8              |
| 247D                         | 2/P & W R-1340, R985        | 18             | Aircoupe F-1, F1A             | Cont C-90                      | 8              |
| Stratoliner 307B             | Wright R-1820-G105A, G205A  | 18             | <b>HOWARD</b>                 |                                |                |
| Fortress B-17G               | 4/Wright R-1820-97          | 18             | DGA-8                         | Wright R-760-E2                | 14             |
| Stearman 75, PT-17           | Cont W-670                  | 14             | DGA-9                         | Jacobs L-5                     | 14             |
| Stearman 75, PT-13           | LycO R-680                  | 18             | DGA-11                        | P & W R-985                    | 18             |
| Stearman 75 (Modified)       | P & W R-985                 | 18             | DGA-12                        | Jacobs L-6                     | 14             |
| Stratocruiser B377           | 4/P & W R-4360              | 56             | DGA-15P                       | P & W R-985-AN-12              | 18             |
| <b>CAMAIR</b>                |                             |                | <b>HOWARD AERO</b>            |                                |                |
| 480                          | 2/Cont O-470-B              | 12             | Super Ventura 237 (Converted) | 2/P & W R-2800-CB              | 36             |
| <b>CENTRAL-LAMSON</b>        |                             |                | <b>LANE AIRCRAFT</b>          |                                |                |
| Air Tractor L-101            | P & W R-985                 | 18             | Riviera                       | Cont IO-470-P                  | 12             |
| <b>CONVAIR</b>               |                             |                | <b>LARK AVIATION</b>          |                                |                |
| Liberator C-87               | 4/P & W R-1830-43           | 28             | Lark 95                       | Cont C-90                      | 8              |
| Catalina PBY-5A              | 2/P & W R-1830-92           | 28             | <b>LEAR</b>                   |                                |                |
| (Modified Version)           | 2/Wright R-2600-29          | 28             | Learstar                      | 2/Wright R-1820, C-9HD         | 18             |
| 240, 340, 440                | 2/P & W R-2800 C Series     | 36             | <b>LOCKHEED</b>               |                                |                |
| <b>CULVER (Superior)</b>     |                             |                | Electra 10, 10A               | 2/P & W R-985-SB2              | 18             |
| Cadet LCA                    | Cont A-75                   | 8              | Electra 10B                   | 2/Wright R-975-E3              | 18             |
| V                            | Cont C-85                   | 8              | Electra 10C                   | 2/P & W R-1340, S3H-1          | 18             |
| <b>CURTISS-WRIGHT</b>        |                             |                | Electra 12A                   | 2/P & W R-985-SB2              | 18             |
| Falcon CW-22, SNC-1          | Wright R-975-E3             | 18             | Super Electra 14-H-2          | 2/P & W R-1690                 | 18             |
| Commando C-46                | 2/P & W R-2800-51, -75, -79 | 36             | Super Electra 14-F62          | 2/Wright GR-1820, -F62         | 18             |
| (Modified Version)           | 2/P & W R-2800-CB16         | 36             | Super Electra 14-G3B          | 2/Wright GR-1820, -G3B         | 18             |
| Satellite                    | Cont C-90                   | 8              | Lodestar 18-56                | 2/Wright R-1820, G-202A, G205A | 18             |
| LFA                          | Franklin 4AC-176-D2         | 8              | Lodestar 18-08                | 2/P & W R-1830-92, S1C3G       | 28             |
| <b>DAVIS AIRCRAFT</b>        |                             |                | Hudson 414                    | 2/Wright R-1820, G205A         | 18             |
| DA-1                         | LycO O-360-A1A              | 8              | Ventura 237                   | 2/P & W R-2800, S1A4G          | 36             |
| <b>DOUGLAS</b>               |                             |                | Constellation 049             | 4/Wright R-3350, -BA3          | 36             |
| Bolo B-18A                   | 2/Wright R-1820             | 18             | Constellation 649, 749        | 4/Wright R-3350, BD1           | 36             |
| Dragon B-23                  | 2/Wright R-2600-29          | 28             | Constellation 1049            | 4/Wright R-3350, CB1           | 36             |
| Invader B-26                 | 2/P & W R-2800-27           | 36             | Super Constellation 1049C,G,H | 4/Wright R-3350-DA             | 36             |
| Dolphin D-117                | W R-985                     | 18             | Starliner 1649                | 4/Wright R-3350-EA             | 36             |
|                              |                             |                | 402-2                         | Cont IO-470-R, TSIO-470-B      | 12             |

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# Spark Plugs

## Other U.S. Aircraft and Piston Engines

| Make & Model                     | Engine                   | Plugs Per Eng. | Make & Model                  | Engine              | Plugs Per Eng. |
|----------------------------------|--------------------------|----------------|-------------------------------|---------------------|----------------|
| <b>MARTIN</b>                    |                          |                | <b>SPACE ENTERPRISES</b>      |                     |                |
| 202, 404                         | 2/P & W R-2800-CA, -CB   | 36             | Spacecoupe AG-14              | Cont C-90           | 8              |
| Marauder B26                     | 2/P & W R-2800-83AM8     | 36             | <b>SPARTON</b>                |                     |                |
| <b>MONOCOUCPE</b>                |                          |                | Executive 7-W                 | P & W R-985         | 18             |
| 90A                              | Warner Scarab 125 & 145  | 14             | <b>STITS</b>                  |                     |                |
| 90AF                             | Franklin 4AC-199-E3      | 8              | Skycoupe SA9A                 | Cont C-90-12F       | 8              |
| 90AL-115                         | LycO O-235-C             | 8              | Skycoupe SA9B                 | Cont O-200-A        | 8              |
| 90AL-125                         | LycO O-290-A             | 8              | <b>TEMCO</b>                  |                     |                |
| Meteor 2                         | 2/LycO O-320             | 8              | Swift GC-1A                   | Cont C-85           | 8              |
| <b>MORRISEY (Shinn)</b>          |                          |                | Swift GC-1B                   | Cont C-125          | 12             |
| 2000C                            | Cont C-90-14F            | 8              | Swift GC-1B (Modified)        | Cont C-145          | 12             |
| 2150                             | LycO O-320-A2A           | 8              | Swift GC-1B (Modified)        | LycO O-320-A        | 8              |
| <b>NAVAL AIRCRAFT FACTORY</b>    |                          |                | <b>TRANSLAND</b>              |                     |                |
| N3N-3                            | Wright R-760-8           | 14             | AG-2                          | P & W R-985, R-1340 | 18             |
| N3N-3 (Modified)                 | P & W R-985              | 18             | <b>TRECKER</b>                |                     |                |
| <b>NORTH AMERICAN</b>            |                          |                | Royal Gull L-1                | 2/LycO GO-480-B1B   | 12             |
| Mitchell B-25                    | 2/Wright R-2600-29       | 28             | Super Gull L-2                | 2/LycO GSO-480-A1A6 | 12             |
| Texan T-6                        | P & W R-1340-AN1         | 18             | <b>VARGA</b>                  |                     |                |
| T28A                             | Wright R-1300            | 14             | Kachina 2150A                 | LycO O-320-A        | 8              |
| <b>OAKLAND AIRMOTIVE (Fleet)</b> |                          |                | <b>VECTO MFG.</b>             |                     |                |
| Super V                          | 2/LycO. O-360-A1A        | 8              | Geronimo                      | 2/LycO O-360-A1A    | 8              |
| <b>OLSON AIRCRAFT</b>            |                          |                | <b>VULTEE</b>                 |                     |                |
| Ambassador                       | Cont O-200-A             | 8              | Valiant 54, BT-13, SNV        | P & W R-985-AN1     | 18             |
| <b>ON MARK ENGINEERING CO.</b>   |                          |                | <b>WACO</b>                   |                     |                |
| Marksman B26K                    | 2/P & W R-2800           | 36             | ZVN-7                         | Jacobs L-5          | 14             |
| <b>RILEY &amp; TEMCO</b>         |                          |                | ZVN-8                         | Jacobs L-6          | 14             |
| Twin Navion                      | 2/LycO O-320-A2A         | 8              | YMF-5                         | Jacobs R755B2       | 14             |
| Riley Navion                     | 2/LycO O-340-A1A         | 8              | <b>WACO AIRCRAFT DIVISION</b> |                     |                |
| Temco Model 58                   | 2/GSO-480-A1A6           | 12             | S-220 Vela                    |                     |                |
| 310R                             | 2/Cont IO-470-D          | 12             | Frank 6A-350-C1               |                     | 12             |
| Riley Rocket                     | 2/LycO IO-540-A1A5       | 12             | TS-250-5 Vega                 | Frank 6A-350        | 12             |
| Turbo Executive 400              | 2/LycO IO-720-A          | 16             | M220-4 Minerva                | Frank 6A-350-C1     | 12             |
| (Converted DeHaviland Dove)      |                          |                | SF-260-3 Meteor Mk. I         | LycO O-540-E        |                |
| Turbo Skyliner                   | 4/LycO IO-540            | 12             | TS-250-3F Meteor Mk. II       | Frank 6A-350-C1     | 12             |
| (Converted Heron)                |                          |                | <b>WEATHERLY AVIATION</b>     |                     |                |
| <b>ROBERTSON AIRCRAFT</b>        |                          |                | Model 201A                    | P & W R-985         | 18             |
| Cessna 180 Modified              | Cont. TSIO-520-C         | 12             | <b>WINDECKER RESEARCH</b>     |                     |                |
| <b>SNOW AERONAUTICAL</b>         |                          |                | Eagle I                       | Cont IO-520         | 12             |
| S-2A                             | Cont W-670, Jacobs R-755 | 14             | <b>WING AIRCRAFT</b>          |                     |                |
| S-2B                             | P & W R-985, R-1340      | 18             | Derringer                     | 2/LycO IO-320-B     | 8              |
|                                  |                          |                | <b>WREN AIRCRAFT</b>          |                     |                |
|                                  |                          |                | Wren 460                      | Cont O-470-R        | 12             |

## U.S. Helicopter and Piston Engines

| Make & Model              | Engine               | Plugs Per Eng. | Make & Model       | Engine            | Plugs Per Eng. |
|---------------------------|----------------------|----------------|--------------------|-------------------|----------------|
| <b>BELL</b>               |                      |                | <b>DOMAN</b>       |                   |                |
| Utility 47G               | Frank 6V4-200-C32    | 12             | LZ-5-1, -2         | LycO SO-580-A1B   | 16             |
| Utility 47G-2             | LycO VO-435-A1B      | 12             | D-11               | LycO SO-580-A1B   | 16             |
| Utility 47G-3B            | LycO TVO-435A        | 12             | <b>ENSTROM</b>     |                   |                |
| Utility 47G-3B1, 47G-3B2  | LycO TVO-435-B1A     | 12             | F28A, C, F280C,    | LycO HIO-360-E    | 8              |
| Utility 47G-3             | Frank 6VS-335        | 12             | F28BF, 28F, 280F,  | LycO TIO-360-B2A  | 8              |
| Utility 47G-4, 47G-4A     | LycO VO-540-B1B3     | 12             | Shark, 280FX, 280L | LycO HIO-360-F1AD | 8              |
| Bellarus 47H, 47H-1       | Frank 6V4-200-C32    | 12             | <b>HILLER</b>      |                   |                |
| Ranger 47J, 47G-5, 47G-5A | LycO VO-435-A1B, B1A | 12             | UH-12B             | Frank 6V4-200-C33 | 12             |
| Ranger 47J2               | LycO VO-540-B        | 12             | UH-12C             | Frank 6V-335-B    | 12             |
| <b>BRANTLY</b>            |                      |                | UH-12D             | LycO VO-435-A1C   | 12             |
| B-2                       | LycO VO-360-A1A      | 8              | UH-12E, 12E4       | LycO VO-540-C2A   | 12             |
| B-2                       | LycO HO-360-B1B      | 8              | UH-12L             | LycO VO-540-C     | 12             |
| B2B                       | LycO IVO-360         | 8              | SL 3/4             | LycO TIVO-540-A   | 12             |
| 305                       | LycO VO-540-B        | 12             |                    |                   |                |
| 305A                      | LycO IVO-540-A1A     | 12             |                    |                   |                |

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# Spark Plugs



## U.S. Helicopter and Piston Engines

| Make & Model        | Engine           | Plugs Per Eng. | Make & Model     | Engine                     | Plugs Per Eng. |
|---------------------|------------------|----------------|------------------|----------------------------|----------------|
| <b>HYNES</b>        |                  |                | <b>SCHWEIZER</b> |                            |                |
| H-2                 | Lyco IVO-360-A1A | 8              | 200              | Lyco HIO-360-B             | 8              |
| H-5                 | Lyco IVO-540-A1A | 8              | 269-A            | Lyco O-360-C2B             | 8              |
| <b>JOVAIR CORP.</b> |                  |                | 300              | Lyco HIO-360-A             | 8              |
| 4E Sedan            | Frank 6V-335     | 12             | 300-C            | Lyco HIO-360-D1A           | 8              |
| <b>KAMAN</b>        |                  |                | <b>SIKORSKY</b>  |                            |                |
| K-240               | Lyco O-435-4     | 12             | S-51             | P & W R-985-B4             | 18             |
| <b>OMEGA</b>        |                  |                | S-55A            | Wright R-1300-3            | 14             |
| BS-12SR/BS-12SC     | 2/Frank 6A-335-A | 12             | S-55C            | P & W R-1340-57            | 18             |
| BS-12A              | 2/Lyco O-540-F   | 12             | S-56             | 2/P & W R-2800-50          | 36             |
| <b>ROBINSON</b>     |                  |                | S-58             | Wright R-1820-84           | 18             |
| R22 Alpha           | Lyco O-320-B2C   | 8              | <b>VERTOL</b>    |                            |                |
| <b>SCHEUTZON</b>    |                  |                | Workhorse 44     | Wright R-1820-103-977C9HD1 | 18             |
| Model B             | Lyco IVO-360-A   | 8              |                  |                            |                |

## International Aircraft Using U.S. Piston Engines

| Make & Model                   | Engine                    | Plugs Per Eng. | Make & Model                | Engine              | Plugs Per Eng. |
|--------------------------------|---------------------------|----------------|-----------------------------|---------------------|----------------|
| <b>ARGENTINA AERO BOREO</b>    |                           |                | <b>EMBRAER</b>              |                     |                |
| Model 95                       | Cont C-90-12F             | 8              | Corisco EMB-711ST           | Cont TSIO-360-FB1   | 12             |
| Model 115                      | Lyco O-235-C2A            | 8              | Ipanema EMB-200             | Lyco O-540-H2B5D    | 12             |
| Model 150                      | Lyco O-320                | 8              | Ipanema EMB-200A            | Lyco O-540-H1B5D    | 12             |
| Model 180                      | Lyco O-360-A              | 8              | Ipanema EMB-201             | Lyco O-540-K1J5D    | 12             |
| Model 260                      | Lyco O-540                | 12             | Minuano EMB-720D            | Lyco IO-540-K1G5    | 12             |
| <b>AVIONES LOCKHEED-KAISER</b> |                           |                | Seneca EMB-810D             | Cont L/TSIO-360     | 12             |
| CL-402                         | Cont IO-470-R & TSIO -470 | 12             | Sertanejo EMB-721           | Lyco IO-540-K1G5D   | 12             |
| <b>I.A.E.</b>                  |                           |                | Tupi EMB-712                | Lyco O-360-A4M      | 8              |
| Calquin 24                     | 2/P & W R-1830-SC-G       | 28             | <b>FABRICA DO GALLEAO</b>   |                     |                |
| Model 45                       | 2/Lyco O-320-A            | 8              | Niess Maranhao              | Cont C-85           | 8              |
| Model 46 Ranquel               | Lyco O-320-A              | 8              | <b>FOKKER</b>               |                     |                |
| Model IA-46 180 Ranquel        | Lyco O-360-A1A            | 8              | S-11                        | Lyco O-435          | 12             |
| <b>PETROLINI</b>               |                           |                | <b>NEIVA</b>                |                     |                |
| El Boyero                      | Cont A-65                 | 8              | IPD 5802                    | Lyco O-320-A        | 8              |
| <b>AUSTRALIA</b>               |                           |                | Paulistinha                 | Frank 4AC-176-B2    | 8              |
| <b>COMMONWEALTH</b>            |                           |                | Paulistinha 56              | Cont C-90-8F        | 8              |
| Ceres CA-28                    | P & W R-1340, S3H1        | 18             | Regente                     | Lyco O-360-A        | 8              |
| Transavia                      | PL 12/T-300 & PL 12/T-400 | 12             | Universal T-25              | Lyco IO-540-K1D5    | 12             |
| Wackett                        | Warner Super Scarab       | 14             | <b>OMAREAL</b>              |                     |                |
| Winjeel CA-25                  | P & W R-985-SB3           | 18             | Casmuniz 52                 | 2/Cont E-185-11     | 12             |
| Wirraway 3                     | P & W R-1340, S1H1        | 18             | <b>CANADA</b>               |                     |                |
| <b>DE HAVILLAND</b>            |                           |                | <b>AVRO (Federal)</b>       |                     |                |
| Drover DHA-3                   | 3/Lyco O-360-A            | 8              | Anson 5                     | P & W R-985-AN-12B  | 18             |
| <b>VICTA AVIATION LTD.</b>     |                           |                | <b>C.C.F.</b>               |                     |                |
| Airtourer 100                  | Cont O-200-A              | 8              | Norsman V                   | P & W R-1340, S3H1  | 18             |
| Airtourer 115                  | Lyco O-235-C1             | 8              | <b>CANADAIR</b>             |                     |                |
| <b>YOEMAN AVIATION</b>         |                           |                | CL215                       | 2/P & W R-2800-CA-3 | 36             |
| YA-1 Cropmaster                | Lyco 540-A1A5             | 12             | <b>DE HAVILLAND</b>         |                     |                |
| <b>AUSTRIA</b>                 |                           |                | Beaver DHC-2                | P & W R-985         | 18             |
| <b>GRAZ-PAUKER</b>             |                           |                | Otter DHC-3                 | P & W R-1340, S3H1  | 18             |
| Flamingo M-222                 | 2/Lyco O-320-A            | 8              | Caribou DHC-4               | 2/P & W R-2000-D5   | 28             |
| Flamingo SPG222                | 2/Lyco IO-360             | 8              | <b>FAIRCHILD</b>            |                     |                |
| <b>BELGIUM</b>                 |                           |                | Husky F11                   | P & W R-985-SB3     | 18             |
| <b>AVIONS FAIREY</b>           |                           |                | <b>FLEET</b>                |                     |                |
| Topsy Junior                   | Cont A-65                 | 8              | Canuch 80                   | Cont C-85-12J       | 8              |
| <b>BRAZIL</b>                  |                           |                | <b>FOUND BROS. AVIATION</b> |                     |                |
| <b>AEROTEC</b>                 |                           |                | FBA-2A, FBA-2C              | Lyco O-540-A1D      | 12             |
| Uirapuru T-23                  | Lyco O-320-B2B            | 8              | 100 Centennial              | Lyco IO-540-G       | 12             |
|                                |                           |                | <b>NORTHWEST INDUSTRIES</b> |                     |                |
|                                |                           |                | Ranger                      | Lyco IO-720-A       | 16             |



# Spark Plugs

## International Aircraft Using U.S. Piston Engines

| Make & Model                       | Engine              | Plugs Per Eng. | Make & Model              | Engine                 | Plugs Per Eng. |
|------------------------------------|---------------------|----------------|---------------------------|------------------------|----------------|
| <b>CHILE</b>                       |                     |                | <b>JODEL</b>              |                        |                |
| <b>FANAERO</b>                     |                     |                | D-112                     | Cont A-65              | 8              |
| Chincol                            | Cont O-470-11       | 12             | D-120                     | Cont C-90              | 8              |
| <b>CHINA, REPUBLIC OF (Taiwan)</b> |                     |                | D-140                     | Lyco O-360             | 8              |
| <b>A.I.D.C.</b>                    |                     |                | <b>JURCA</b>              |                        |                |
| PL1B                               | Lyco O-320-E2A      | 8              | M.J. 2 Tempete            | Cont A-65              | 8              |
| <b>CZECHOSLOVAKIA ZLIN</b>         |                     |                | <b>LATECOERE</b>          |                        |                |
| 50LS                               | Lyco AEIO-540-L1B5D | 12             | 631                       | 6/Wright R-2600-20     | 28             |
| <b>EGYPT</b>                       |                     |                | <b>LEGRAND-SIMON</b>      |                        |                |
| <b>HELIOPOLIS AIRWORKS</b>         |                     |                | LS-50                     | Cont C-90              | 8              |
| Gomhouria MK-2                     | Cont C-145          | 12             | <b>MATRA AIRCRAFT</b>     |                        |                |
| MK-6                               | Cont O-300          | 12             | Magnet Jupiter            | 2/Lyco IO-360-A        | 12             |
| <b>FINLAND</b>                     |                     |                | <b>MAX HOLSTE</b>         |                        |                |
| <b>HEINONEN</b>                    |                     |                | Broussard M.H. 1521       | P & W R-985            | 18             |
| HK-1                               | Cont A-65           | 8              | Super Broussard MH-250    | 2/P & W R-1340         | 18             |
| <b>VALMET</b>                      |                     |                | Major Broussard MH-350    | 2/Cont GIO-470-A       | 12             |
| L-70                               | Lyco AEIO-360-A1B6  | 8              | <b>MORANE-SAULNIER</b>    |                        |                |
| PIK-11                             | Cont A-65-8         | 8              | <b>RALLYE</b>             |                        |                |
| PIK-23                             | Lyco O-360-A4M      | 8              | MS-880                    | Cont C-90, O-200       | 8              |
| Tuuli TL-111                       | Cont O-470-A        | 12             | MS-885                    | Lyco O-320-A           | 8              |
| <b>FRANCE</b>                      |                     |                | MS-890                    | Lyco O-360             | 8              |
| <b>ADAM</b>                        |                     |                | MS-893                    | Lyco IO-360            | 8              |
| Loisers R.A. 14                    | Cont A-65-8         | 8              | <b>PIEL</b>               |                        |                |
| Major R.A. 15                      | Cont C-75           | 8              | Emeraude C.P. 301         | Cont C-90-12F          | 8              |
| <b>SOCATA</b>                      |                     |                | <b>POTETZ-SEEMS</b>       |                        |                |
| TB9 Tampico                        | Lyco O-320-D2A      | 8              | MS-885 Super Rallye       | Cont O-300             | 12             |
| TB10 Tobago                        | Lyco O-360-A1AD     | 8              | <b>REIMS AVIATION</b>     |                        |                |
| TB20 Trinidad                      | Lyco IO-540-C4D5D   | 12             | F150, FA150               | Cont O-200-A           | 8              |
| TB21 Trinidad TC                   | Lyco TIO-540-ABIAD  | 12             | FRA150L, M                | RR/Cont O-240          | 8              |
| TB30                               | Lyco AEIO-540-L1B5D | 12             | F172D thru K              | RR/Cont O-300-A        | 12             |
| <b>AUBERT</b>                      |                     |                | F172L, M                  | Lyco O-320-E           | 8              |
| Cigale PA-204L                     | Lyco O-320          | 8              | FR172 Rocket              | RR/Cont IO-360-D       | 12             |
| Super Cigale                       | Lyco O-360          | 8              | F177RG Cardinal           | Lyco IO-360-A          | 8              |
| <b>AVIONS PIERRE ROBIN</b>         |                     |                | A182J thru N              | Cont O-470-R           | 12             |
| Dauphin                            | Lyco O-235-L2A      | 8              | F337                      | 2/RR/Cont IO-360-C & D | 12             |
| Major                              | Lyco O-320-D2A      | 8              | FT337 Super Skymaster     | 2/Cont TSIO-360-C      | 12             |
| Regent, Remorqueur                 | Lyco O-360-A3A      | 8              | <b>ROBIN (CEA)</b>        |                        |                |
| 8R2160, R3000                      | Lyco O-320-D2A      | 8              | 2 + 2 Tricycle            | Lyco O-235-C           | 8              |
| <b>BOISAVIA</b>                    |                     |                | Cadet, Petit Prince       | Lyco O-235-C           | 8              |
| Mercury B-601                      | Lyco O-435-1        | 12             | Chevalier                 | Lyco O-320-D           | 8              |
| (Equiv. O-435-K, -K1)              | Cont E-165-4        | 12             | Major 160                 | Lyco O-320-E           | 8              |
| Mercury B-602, B-60                | Lyco O-320          | 8              | Prince                    | Lyco O-360-D           | 8              |
| <b>BREQUET</b>                     |                     |                | Regent                    | Lyco O-360-A           | 8              |
| Provence 763                       | 4/P & W R-2800-CA18 | 36             | HR-100                    | Lyco IO-360            | 8              |
| <b>BROCHET</b>                     |                     |                | HR-100                    | Lyco O-540-B           | 12             |
| M.B. 120                           | Cont C-90           | 8              | HR-100                    | Cont 6A-285            | 12             |
| <b>C.A.B.</b>                      |                     |                | <b>SCINTEX</b>            |                        |                |
| Minicab GY-20                      | Cont A-65-8         | 8              | ML .250 Rubis             | Lyco O-540-A           | 12             |
| Supercab GY-30                     | Cont C-90           | 8              | <b>SIPA</b>               |                        |                |
| <b>CENTRE-EST</b>                  |                     |                | S-91                      | Cont C-85-12F          | 8              |
| DR-100                             | Cont C-90           | 8              | S-94                      | Cont C-90-8-F          | 8              |
| Ambassadeur DR-1050                | Cont O-200          | 8              | Coccinelle S-1000         | Cont C-90-12F          | 8              |
| <b>DRUINE</b>                      |                     |                | S-1100                    | 2/P & W R-1340         | 18             |
| Condor DO-61                       | Cont A-65           | 8              | <b>S.N.C.A.N</b>          |                        |                |
| Condor DO-62                       | Cont C-90           | 8              | Nord 2503                 | 2/P & W R-2800-CB17    | 36             |
| <b>GARDAN</b>                      |                     |                | <b>SOCATA</b>             |                        |                |
| Horizon GY-80                      | Lyco O-320-A        | 8              | Gabier R235F              | Lyco O-540-B4B5        | 12             |
| <b>HUREL-DUBIOS</b>                |                     |                | Diplomate, Provence ST-10 | Lyco IO-360-C          | 8              |
| H.D. 34, 321                       | 2/Wright R-1820     | 18             | Rallye Club               | RR/Cont O-200-A        | 8              |
|                                    |                     |                | Rallye Minerva            | Franklin 6A-350-C1     | 12             |
|                                    |                     |                | Rallye Commodore          | Lyco O-360-A           | 8              |
|                                    |                     |                | Rallye 7                  | Lyco IO-540-K          | 12             |
|                                    |                     |                | Tampico TB9               | Lyco O-320-D2A         | 8              |
|                                    |                     |                | Tobago TB10               | Lyco O-360-A1AD        | 8              |
|                                    |                     |                | Trinidad TB20             | Lyco IO-540-C4D5D      | 12             |
|                                    |                     |                | Trinidad TB21             | Lyco TIO-540-AB1AD     | 12             |

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# Spark Plugs



## International Aircraft Using U.S. Piston Engines

| Make & Model                  | Engine                     | Plugs Per Eng. | Make & Model                | Engine              | Plugs Per Eng. |
|-------------------------------|----------------------------|----------------|-----------------------------|---------------------|----------------|
| <b>FRANCE (Cont'd)</b>        |                            |                | <b>BRITTEN-NORMAN</b>       |                     |                |
| <b>SUD-EST</b>                |                            |                | BN-2B-21 Islander           | 2/LycO IO-540-KIB5  | 12             |
| Languedoc S.E. 161            | 4/P & W R-1830-92          | 28             | BN-2 Islander               | 2/LycO O-540-E      | 12             |
| Bretagne S.O. 30P             | 2/P & W R-2800-CA18        | 36             | BN-2A-2 Islander            | 2/LycO IO-540       | 12             |
| <b>WASSMER</b>                |                            |                | BN-2A Trislander            | 3/LycO O-540-E      | 12             |
| D-120                         | Cont C-90                  | 8              | <b>BROOKLANDS</b>           |                     |                |
| Super 4 Sancy                 | LycO O-360-A               | 8              | DA-7 Optica Scout           | LycO IO-540         | 12             |
| Super 4/21-235                | LycO O-540-B2B             | 12             | <b>NORMAN</b>               |                     |                |
| Super 4/21-250                | LycO O-540-A               | 12             | NAC-1 Freelance             | LycO O-360          | 8              |
| Super 4 Baladou WA-41         | LycO O-360-A               | 8              | <b>PERCIVAL</b>             |                     |                |
| Super 4 Sancy WA-40A          | LycO O-360-A               | 8              | E.P. 9                      | LycO GO-480-B       | 12             |
| Pacific WA51                  | LycO O-320-E               | 8              | Prospector                  | LycO GO-480-G1A6    | 12             |
| <b>GERMANY</b>                |                            |                | <b>SCOTTISH-AVIATION</b>    |                     |                |
| <b>BOELKOW/MBB</b>            |                            |                | Twin Pioneer                | 2/P & W R-1340      | 18             |
| BO-207                        | LycO O-360-A1A             | 8              | <b>SHORT</b>                |                     |                |
| BO-208 A/C                    | Cont O-200-A               | 8              | Sandringham                 | 4/P & W R-1830-90C  | 28             |
| BO-209                        | LycO 320-E2F               | 8              | <b>INDIA</b>                |                     |                |
| BO-209C                       | Cont O-240-A               | 8              | <b>HINDUSTAN</b>            |                     |                |
| <b>BUECKER</b>                |                            |                | Basant HA-31                | LycO IO-720-C       | 16             |
| BU-181B1                      | LycO O-235-C               | 8              | Pushpak                     | Cont C-90           | 8              |
| 131 Lerche                    | LycO IO-360-B1B            | 8              | <b>INDONESIA</b>            |                     |                |
| <b>DORNIER</b>                |                            |                | <b>ANGKATAN</b>             |                     |                |
| DO-27A, -27B-2/3, -27Q-1/4/5  | LycO GO-480-B1A6           | 12             | NU-85 Grasshopper           | Cont C-85, C-90     | 8              |
| DO-27B-1                      | LycO IO-540-A1D            | 12             | NU-225 Sikumbag             | Cont O-470-J        | 12             |
| DO-27H-2                      | LycO GSO-480-B1A6          | 12             | <b>ITALY</b>                |                     |                |
| DO-28A-1                      | LycO O-540-A1D             | 12             | <b>AGUSTA</b>               |                     |                |
| DO-28B-1                      | LycO IO-540-A1A5           | 12             | P.111 (Equiv. O-435-K, -K1) | LycO O-435-1        | 12             |
| DO-28D-1/D-2                  | LycO IGSO-540-A1E          | 12             | 47G                         | Franklin 6V4-200    | 12             |
| <b>EQUATOR AIRCRAFT GMBH</b>  |                            |                | 47G-2, 47J                  | LycO VO-435         | 12             |
| P-300, 350                    | LycO TIO-540               | 12             | Model 102                   | P & W R-1340        | 18             |
| P-400                         | LycO IO-720                | 16             | <b>ALAPARMA</b>             |                     |                |
| P-420                         | 2/LycO TO-360              | 8              | Montelli AM-10              | Cont A-65           | 8              |
| P-450                         | LycO TIGO-540              | 12             | <b>AMBROSINI</b>            |                     |                |
| <b>GROB</b>                   |                            |                | Rondone                     | Cont C-90           | 8              |
| G115 / G115A                  | LycO O-235-H2              | 8              | Rondone                     | LycO O-290-D2       | 8              |
| G115B                         | LycO O-320-D1A, -D2A, -D3G | 8              | <b>AVIMILANO</b>            |                     |                |
| G115C                         | LycO O-320-DIA             | 8              | Falco F-8                   | LycO O-290-D2       | 8              |
| G115C2                        | LycO O-360-A1F6            | 8              | Falco F-8L                  | LycO O-320          | 8              |
| G115D                         | LycO AEIO-360-B1F          | 8              | Nibbio F-14                 | LycO O-360          | 8              |
| G115D2                        | LycO AEIO-320-D1B          | 8              | Scricciolo P-19             | Cont C-90-12F       | 8              |
| G115T                         | LycO AEIO-540-D4A5         | 12             | <b>FIAT</b>                 |                     |                |
| <b>KLEMM</b>                  |                            |                | G-49-2                      | P & W R-1340        | 18             |
| KL 107 B/C                    | LycO O-320-A2A             | 8              | <b>LUALDI</b>               |                     |                |
| <b>RHEIN-FLUGZEUGBAU GMBH</b> |                            |                | L-55                        | LycO O-360          | 8              |
| X114                          | LycO IO-360                | 8              | <b>MACCHI</b>               |                     |                |
| <b>SCHEIBE</b>                |                            |                | M.B. 308                    | Cont C-85, C-90     | 8              |
| SF 23/A/A1/B                  | Cont C-90-12F              | 8              | M.B. 320                    | 2/Cont E-185, E-225 | 12             |
| SF 23-C                       | LycO O-235-C1              | 8              | M.B. 323                    | P & W R-1340        | 18             |
| <b>SPORTAVIA-PUETZER</b>      |                            |                | M.B. 420                    | Cont TSIO-470-B     | 12             |
| Elster B                      | Cont C-90-12F              | 8              | <b>METEOR</b>               |                     |                |
| Elster C                      | LycO O-320-A2B             | 8              | F.L. 3                      | Cont C-85           | 8              |
| <b>GREAT BRITAIN</b>          |                            |                | F.L. 53                     | Cont A-65           | 8              |
| <b>BEAGLE-AUSTER</b>          |                            |                | F.L. 54                     | Cont C-90           | 8              |
| Atlantic                      | Cont E-185                 | 12             | F.L. 55                     | LycO O-320          | 8              |
| Alpha J5 & 5A                 | LycO O-290                 | 8              |                             |                     |                |
| Arrow J/2                     | Cont C-75-12               | 8              |                             |                     |                |
| Agricola B-8                  | Cont O-470-M               | 12             |                             |                     |                |
| Pup 150                       | LycO IO-320                | 8              |                             |                     |                |
| Workmaster, Airdale A109      | LycO O-360-A               | 8              |                             |                     |                |
| B121                          | RR/Cont O-200              | 8              |                             |                     |                |
| B206S                         | 2/RR/Cont GTSIO-520-C      | 12             |                             |                     |                |
| <b>BEAGLE-MILES</b>           |                            |                |                             |                     |                |
| Caravan HDM-106               | 2/LycO GSO-480-B           | 12             |                             |                     |                |
| Martlet M 117                 | Cont O-200                 | 8              |                             |                     |                |



# Spark Plugs

## International Aircraft Using U.S. Piston Engines

| Make & Model                 | Engine              | Plugs Per Eng. | Make & Model                 | Engine              | Plugs Per Eng. |
|------------------------------|---------------------|----------------|------------------------------|---------------------|----------------|
| <b>ITALY (Cont'd)</b>        |                     |                | <b>VEST AIRCRAFT</b>         |                     |                |
| <b>NARDI</b>                 |                     |                | Super Heron (Modified)       | 4/Lyco GSO-480-B1A6 | 12             |
| FN-333                       | Cont O-470-H        | 12             | <b>NETHERLANDS</b>           |                     |                |
| <b>PARTENAVIA</b>            |                     |                | <b>HOLLANDAIR</b>            |                     |                |
| P48B                         | Cont A-65           | 8              | H. A. -001 Libel             | Lyco O-290-D2       | 8              |
| P52                          | Cont C-90           | 8              | <b>PHILIPPINE REPUBLIC</b>   |                     |                |
| P59                          | Cont O-200          | 8              | <b>BUREAU OF SCIENCE</b>     |                     |                |
| P55, P57                     | Lyco O-320          | 8              | L-21S Vinta                  | Cont O-470-B        | 12             |
| P57-1                        | Lyco O-340          | 8              | <b>POLAND</b>                |                     |                |
| P57-11                       | Lyco O-360-B        | 8              | <b>L.W.D.</b>                |                     |                |
| P64B Oscar 180               | Lyco O-360-A        | 8              | ZAK-2                        | Cont A-65           | 8              |
| P64B Oscar 200               | Lyco IO-360-A       | 8              | Polskie Zaklady              | Cont TSIO-360       | 12             |
| P66B Oscar 100               | Lyco O-235-C        | 8              | PzL-M20                      | Cont TSIO-360-KB    | 12             |
| <b>KANPUR</b>                |                     |                | <b>SPAIN</b>                 |                     |                |
| HA-31 Mk.2                   | Lyco IO-720-C1B     | 16             | <b>AISA</b>                  |                     |                |
| <b>PIAGGIO</b>               |                     |                | Peque I-11B                  | Cont C-90-12F       | 8              |
| P66B Oscar 150               | Lyco O-320-A        | 8              | AVD-12C                      | Cont O-470-A        | 12             |
| P66C                         | Lyco O-320          | 8              | <b>C.A.S.A</b>               |                     |                |
| P68, P68B, P68C, P68R        | 2/Lyco IO-360-A     | 8              | Halcon CASA 202B             | 2/Wright R-1820-56  | 18             |
| P68TC                        | Lyco TO-360-C       | 8              | <b>DORNIER</b>               |                     |                |
| P70 Alpha                    | RR/Cont O-200-A     | 8              | C-127A                       | Lyco GO-480-B       | 12             |
|                              | Lyco GO-435-C2      | 12             | <b>HISPANO</b>               |                     |                |
| P-149                        | GSO-480-B1A6        | 12             | HA-100-F1                    | Wright R-1300       | 14             |
| P-136                        | 2/Frank 6A8-215-B9F | 12             | <b>SCOTLAND</b>              |                     |                |
| P-136-L                      | 2/Lyco GO-435-C2    | 12             | <b>SCOTTISH AVIATION</b>     |                     |                |
| P-136-L1                     | 2/Lyco GO-480-B     | 12             | Bullfinch                    | Lyco AEIO-360-A     | 8              |
| P-136-L2                     | 2/Lyco GSO-480-A1A  | 12             | <b>SWEDEN</b>                |                     |                |
| P-148                        | 2/Lyco O-435-A      | 12             | <b>ANDEREAASON</b>           |                     |                |
| P-166                        | 2/Lyco GSO-480-A1A  | 12             | BA-6                         | Cont A-65, C-85     | 8              |
| P-155-SAM-1                  | 2/P & W R-2800      | 36             | <b>GOTAVERKEN</b>            |                     |                |
| P-150                        | P & W R-1340        | 18             | GV-38                        | LeBlond (90 hp)     | 10             |
| P-166-B/C                    | Lyco IGSO-540       | 12             | <b>A.B. MALMO</b>            |                     |                |
| <b>PROCAER PICCHIO</b>       |                     |                | MFI Junior                   | Cont O-200          | 8              |
| F-15                         | Lyco O-320-B        | 8              | MFI-10 Vipan                 | Lyco O-320-A        | 8              |
| F-15A                        | Lyco O-360-A        | 8              | MFI-10C Vipan                | Lyco O-360          | 8              |
| <b>SIAT-MARCHETTI</b>        |                     |                | <b>SAAB</b>                  |                     |                |
| Riviera                      | Cont IO-470-P       | 12             | 90-A-2                       | 2/P & W R-1820      | 28             |
| S206                         | Franklin 6A-350-C1  | 12             | 91-B, -C Safir               | Lyco O-435-A        | 12             |
| S-205-18R                    | Lyco O-360-A        | 8              | 91-D                         | Lyco O-360-A1A      | 8              |
| S-205-20/F, 205-20/R         | Lyco IO-360-A       | 8              | Safari                       | Lyco IO-360         | 8              |
| S-205-22R                    | Franklin 6A-350-C1  | 12             | <b>SWITZERLAND</b>           |                     |                |
| S-208, SF-260, F-260, F-260B | Lyco O-540-E        | 12             | <b>FFA FLUG-UND</b>          |                     |                |
| S-F260C                      | Lyco AEIO-540-D4A5  | 12             | <b>FAHRZEUGWERKE</b>         |                     |                |
| <b>JAPAN</b>                 |                     |                | AS 202/15                    | Lyco O-320-E2A      | 8              |
| <b>FUJI</b>                  |                     |                | AS 202/18A                   | Lyco AEIO-360       | 8              |
| Nikko LM-1, Mentor B-45      | Cont O-470-13       | 12             | AS202/26A                    | Lyco AEIO-540-D4B5  | 12             |
| KM-11                        | Lyco GSO-480-A1A    | 12             | <b>PILATUS</b>               |                     |                |
| Aero-Subaru                  | Lyco O-320-B        | 8              | P-3                          | Lyco GO-435-C2A     | 12             |
| FA-200-160                   | Lyco O-320-D        | 8              | PC-6                         | Lyco GSO-480-B1A6   | 12             |
| FA-200-180                   | Lyco O-360-B        | 8              | <b>YUGOSLAVIA</b>            |                     |                |
| TL-1                         | Lyco IGSO-480-A1A6  | 12             | <b>IKARUS</b>                |                     |                |
| T3                           | Lyco IGSO-480       | 12             | Type 214, 522                | P & W R-1340        | 18             |
| <b>KAWASAKI</b>              |                     |                | <b>UTVA AIRCRAFT FACTORY</b> |                     |                |
| KAL-1, -2, KAT-1             | Lyco GO-435-C2B     | 12             | UTVA-75, -75V                | Lyco IGO-360-B1F    | 8              |
| <b>TACHIKAWA</b>             |                     |                | UTVA Lasta                   | Lyco AEIO-540       | 12             |
| R-HM                         | Cont C-90           | 8              |                              |                     |                |
| <b>MEXICO</b>                |                     |                |                              |                     |                |
| <b>AZCARATE</b>              |                     |                |                              |                     |                |
| LA-60                        | Cont IO-470-R       | 12             |                              |                     |                |
|                              | Cont TSIO-470-A     | 12             |                              |                     |                |

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# SLICK by Champion



**SLICK by Champion**



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**Slick. Really, Slick.**

One Powerful Kit • One Proven Source • Total Energy Delivered



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# SLICK by Champion



*"World record flights are nerve-racking enough without having to worry about starting on time. All 28 records we hold with the Exxon Flyin' Tiger have started with SlickSTART."*

*- BRUCE BOHANNON*

## Cold start. Hot start. Any start.

# SlickSTART™

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Improve your engine starting — hot or cold. SlickSTART™ unleashes a firestorm of ignition energy to get your engine started and get you off the ground. SlickSTART is so effective, even sub-optimal fuel mixtures and seriously fouled plugs won't stop the capacitive discharge output from providing the ignition boost your engine needs for reliable starts every time.

SlickSTART's sure starting power...

- Delivers up to 340% more spark energy to your plugs.
- Overcomes poor engine priming.
- Reduces costly electrical stress to your battery and starter.
- Requires no maintenance.
- Is approved for use with Slick magnetos.

Plus, it's inexpensive and easy to install. Just add SlickSTART to your impulse coupled magnetos or replace your antiquated starting vibrator.

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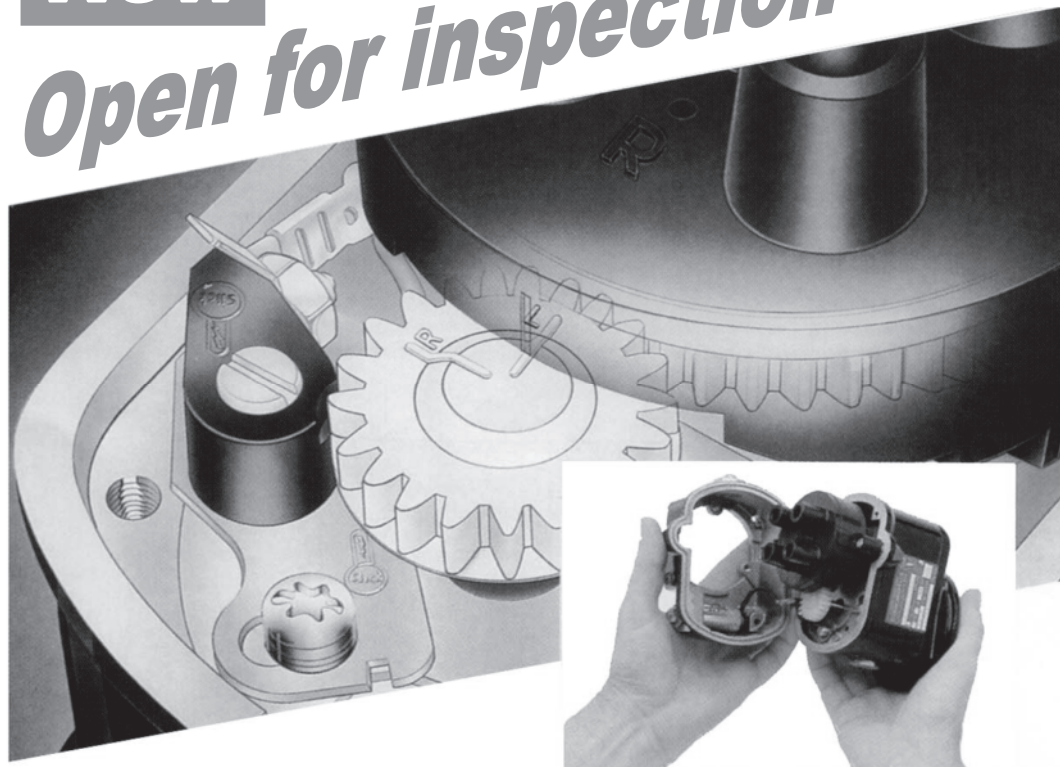
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# SLICK by Champion



## 4300/6300 Series Magneto

**Now**  
*Open for inspection*



**Take a close look at Slick's 4300/6300 Series and you'll see what we are doing to make magnetos better.**

At Champion Aerospace, we're always looking for ways to make our magnetos better. So we asked experienced mechanics for their ideas on the ideal magneto.

The result is Slick 4300/6300 Series magnetos that make timing, installation, inspection, and maintenance simpler and more convenient than ever before. We also incorporated mechanic-endorsed features to improve performance and service life.

- **Lift-off housing** – Internal timing is not disturbed during inspections.
- **Simplified internal timing** – Improved internal markings and unique Slick E-gap tool make timing easier and more accurate.
- **Fully sealed bearings** – Keeps contaminants out and grease in for smoother operation, less maintenance.
- **Lower EMI Levels** – Redesigned housing improves sealing and results in less radio noise.
- **OEM Approved** – Models are available for more than 225,000 engines – all compatible with existing Slick Ignition Harnesses.

Get the ignition system that meets your needs for simple maintenance and quality performance. Contact your Slick Distributor for application information.

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Aircraft Engine Applications

## Cold start. Hot start. Every start.

# SlickSTART™

SlickSTART™ is so effective, even sub-optimal fuel mixtures and seriously fouled plugs won't stop the capacitive discharge output from providing the ignition boost your engine needs for reliable starts every time. It's inexpensive, easy to install and requires no maintenance! If you want to deliver up to 340% more spark energy to your plugs, overcome poor engine priming and reduce electrical stress to your battery and starter, then SlickSTART is the answer for you!

For more information, call or log onto  
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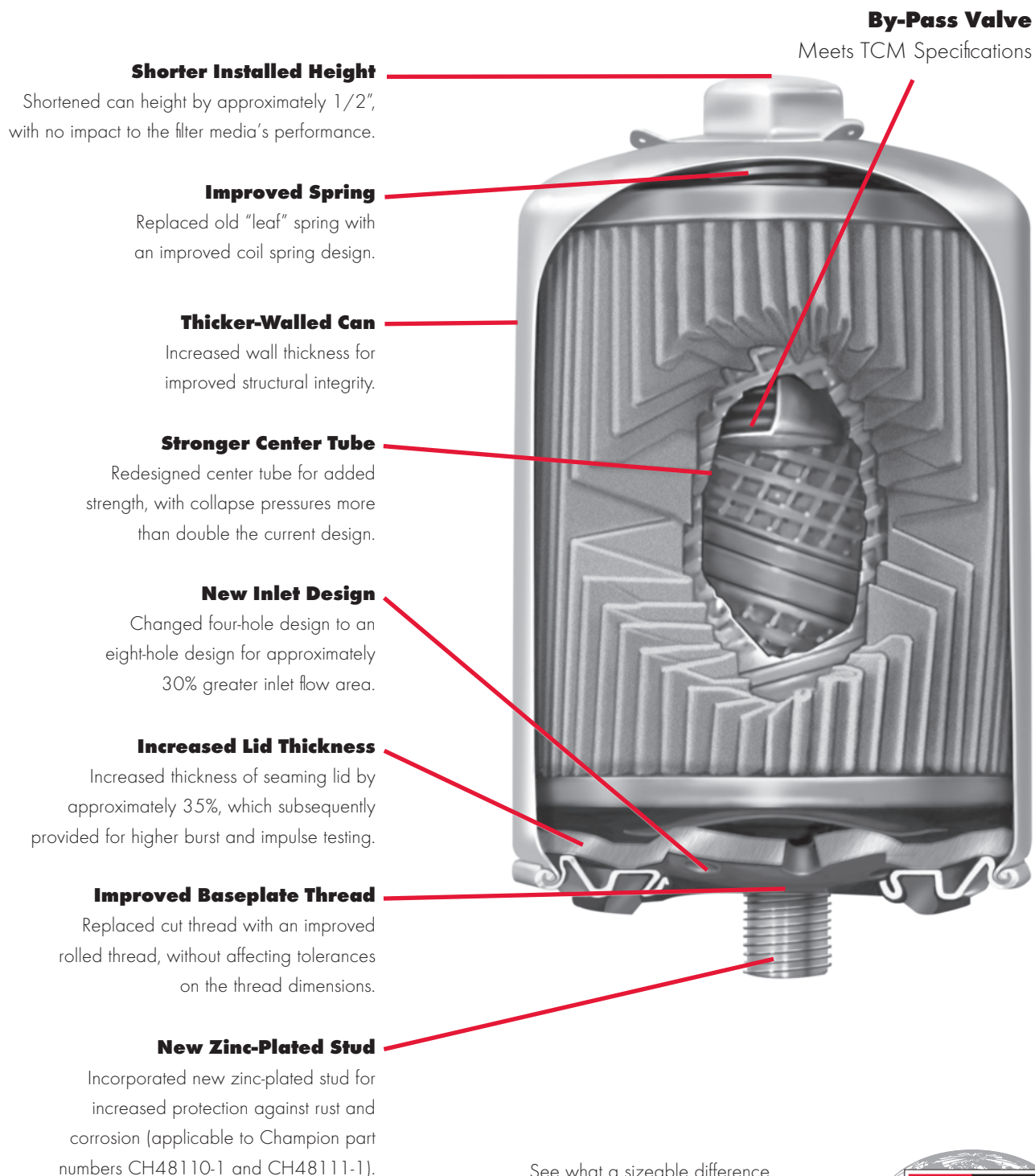
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# Introducing a New, Improved Shorter Oil Filter

Customers told us the height of a standard oil filter can make it difficult for them to install the filter in certain engine applications.

So, operating on the premise that size really does matter, we made our Champion oil filter can 1/2" shorter and, in the process, added design improvements that now make our filters stronger and more effective than ever before.



# Oil Filters

See what a sizeable difference 1/2" can make in your life. For more information, call, fax, or log onto [www.championaerospace.com](http://www.championaerospace.com)



Champion Aerospace's full-pleat, resin-impregnated micronic filter media traps all harmful particles, including metallic chips which result from abnormal engine wear. Because the oil flows through many layers of locked-in fibers, there is no migration of fiber material to clog engine oil passages or affect bearing surfaces. According to industry-approved tests, the Champion oil filter traps and holds more dirt and harmful particles during its normal operating time than any other similar filter.



# Oil Filters

## Full-Flow Spin-On Filters

### Champion Replacement Filter Elements

CFO-100-1 Short Element

CFO-101-1 Long Element

CFO-205 Element Gasket Kit

### Oil Filter Packaging Information

Champion Aerospace spin-on oil filters are packaged in individual boxes, with part numbers displayed prominently. All are equipped with an attached installation gasket. Those with male threaded studs have thread protectors to avoid damage.

All sizes of spin-on filters are packed 12 per case of a single part number, in heavy, reshippable corrugated-board cartons.

Champion oil filter elements are individually boxed, each with a plastic bag containing installation gaskets and instructions. This provides ample protection for these elements in storage and assures availability of necessary items for correct installation.

All sizes of replacement elements are packed 12 per case of a single part number in heavy, reshippable corrugated-board cartons.

### Spin-On Oil Filters for Teledyne Continental Motors (TCM) Engines

Champion CH48108-1 and CH48109-1 oil filters have been assigned TCM part numbers 649922 and 649923. Many TCM engines have been modified per TCM service bulletins M74-2, M86-6 (Rev.1), Cessna conversion kits or through local field approval. These modifications may require a different filter part number than the one listed in our application data. Following is a list of filter adapters used on TCM engines with the recommended Champion filter.

| Manufacturer | Adapter   | Filter    |
|--------------|-----------|-----------|
| Cessna       | 1250403-2 | CH48110-1 |
| Cessna       | 1250922-1 | CH48110-1 |
| Cessna       | 1250922-2 | CH48110-1 |
| Cessna       | 1250922-3 | CH48110-1 |
| Cessna       | 1250922-4 | CH48109-1 |
| Cessna       | 1250922-5 | CH48108-1 |
| Cessna       | 0556010-1 | CH48110-1 |
| Cessna       | 0450404-2 | CH48110-1 |
| TCM633324    | CH48110-1 |           |

The airframe or engine manufacturer should be consulted for filter application data on field modified engines.



#### Lycoming

CH48103-1 CH48104-1  
(Interchangeable)



#### Continental

CH48108-1 \* (TCM No. 649922) CH48109-1 \* (TCM No. 649923)  
(Interchangeable)



#### Lycoming and Continental

CH48110-1 CH48111-1  
(Interchangeable)

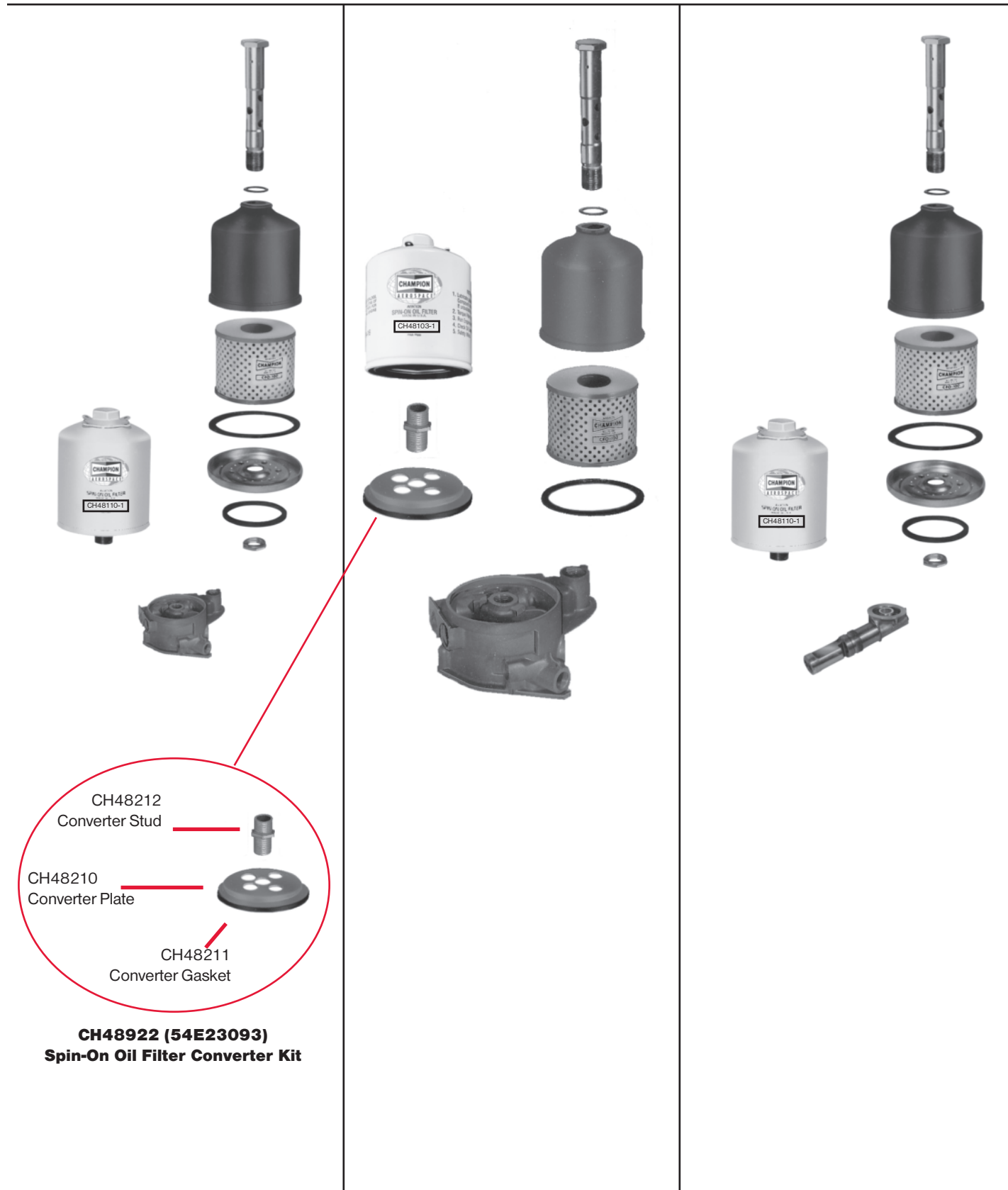
\* These filters are equipped with an internal bypass valve. They can be used on any TCM engine equipped with or without a bypass valve in the oil filter engine adapter.

# Oil Filters



## Full-Flow Spin-On Filters

### For Lycoming and Continental Engines



Textron Lycoming now supplies the converter kit, formerly sold under Champion P/N: CH48922. This kit is now available from your Lycoming distributor under P/N: 54E23093.



# Oil Filters

## Aircraft Engine Applications

| Model                         | Engine Model               | Champion Spin-On Filter | Champion Element | Model                                                                                                                                                                                                  | Engine Model   | Champion Spin-On Filter | Champion Element |
|-------------------------------|----------------------------|-------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------|------------------|
| <b>AEROSPATIALE (Socata)</b>  |                            |                         |                  | <b>NOTE:</b> All Cessna aircraft modified under Cessna Service Bulletin SEB-93-1 or MEB 93-1, require Champion Oil Filter CH48108-1. The CH48109-1 may also be used if clearance permits installation. |                |                         |                  |
| TB9 Tampico                   | O-320-D2A                  | CH48110-1               | CFO-100-1        | <b>CESSNA</b>                                                                                                                                                                                          |                |                         |                  |
| TB10 Tobago                   | O-360-A1AD                 | CH48110-1               | CFO-100-1        | 150 A thru M                                                                                                                                                                                           | O-200          | CH48108-1               | CFO-100-1        |
| TB20 Trinidad                 | IO-540-C4D5D               | CH48103-1               | CFO-100-1        | F150 F thru M                                                                                                                                                                                          | O-200          | CH48108-1               | CFO-100-1        |
| TB21 Trinidad TC              | TIO-540-AB1AD              | CH48103-1               | CFO-100-1        | A150L                                                                                                                                                                                                  | O-200          | CH48108-1               | CFO-100-1        |
| TB30                          | AEIO-540-L1B5D             | CH48103-1               | CFO-100-1        | FA150                                                                                                                                                                                                  | O-200          | CH48108-1               | CFO-100-1        |
| <b>AEROSTAR (See Piper)</b>   |                            |                         |                  | 152                                                                                                                                                                                                    | O-235-L2C, H2C | CH48110-1               | -                |
| <b>BEECH</b>                  |                            |                         |                  | 162                                                                                                                                                                                                    | O-200-D        | CH48108-1               | -                |
| <b>BONANZA</b>                |                            |                         |                  | C-172                                                                                                                                                                                                  |                |                         |                  |
| E33A, F33A, F33B, F33C        | IO-520                     | -                       | CFO-100-1        | 172 A thru H                                                                                                                                                                                           | O-300          | CH48108-1               | CFO-100-1        |
| E33A, F33A, F33B, F33C        | IO-520B                    | CH48109-1               | -                | 172 I thru M                                                                                                                                                                                           | O-320          | CH48110-1               | CFO-100-1        |
| G-33                          | IO-470N                    | CH48108-1               | -                | 172N                                                                                                                                                                                                   | O-320-H2AD     | CH48103-1               | -                |
| H-35                          | O-470                      | CH48108-1               | -                | 172P                                                                                                                                                                                                   | O-320-D2J      | CH48111-1               | CFO-101-1        |
| J, K, M-35                    | IO 470-C                   | CH48108-1               | -                | F172 D thru H                                                                                                                                                                                          | O-300          | CH48108-1               | CFO-100-1        |
| N, P-35                       | IO-470-N                   | CH48108-1               | -                | FR172 E thru K                                                                                                                                                                                         | IO-360         | CH48108-1               | CFO-100-1        |
| S35, V35, V35A, V35B          | IO-520                     | -                       | CFO-100-1        | R172K                                                                                                                                                                                                  | IO-360-K       | CH48108-1               | -                |
| S35                           | IO-520B                    | CH48109-1               | -                | 172R and S                                                                                                                                                                                             | IO-360-L2A     | CH48110-1               | -                |
| V35TC, V35A-TC, V35B-TC       | TSIO-520                   | -                       | CFO-100-1        | 172RG                                                                                                                                                                                                  | O-360-F1A6     | CH48110-1               | CFO-100-1        |
| V35TC, V35A-TC, -V35B-TC      | TSIO-520D                  | CH48109-1               | -                | 172S                                                                                                                                                                                                   | IO-360-L2A     | CH48110-1               | -                |
| V35, V35A, V35B               | IO-520B                    | CH48109-1               | -                | 177                                                                                                                                                                                                    | O-320          | CH48110-1               | CFO-100-1        |
| 36, A36                       | IO-520B                    | CH48109-1               | -                | 177A, B                                                                                                                                                                                                | O-360-A1F6D    | CH48103-1               | CFO-100-1        |
| A36TC, B36TC                  | TSIO-520-UB                | CH48109-1               | -                | 177RG                                                                                                                                                                                                  | IO-360-A1B6D   | CH48103-1               | CFO-100-1        |
| B36-550                       | IO-550                     | CH48109-1               | -                | 180 A thru J                                                                                                                                                                                           | O-470          | CH48108-1               | CFO-100-1        |
| <b>DEBONAIR/BONANZA</b>       |                            |                         |                  | 180Q                                                                                                                                                                                                   | O-470-U++      | CH48108-1               | CFO-100-1        |
| C33A, E33A, E33C              | IO-520                     | -                       | CFO-100-1        | 180-S/N 53087 & Up                                                                                                                                                                                     | 1111O-470-U++  | CH48108-1               | -                |
| C33A, E33A, F33C              | IO-520B                    | CH48109-1               | -                | C-182                                                                                                                                                                                                  |                |                         |                  |
| <b>MUSKETEER</b>              |                            |                         |                  | 182 A Thru P                                                                                                                                                                                           | O-470          | CH48108-1               | CFO-100-1        |
| Sport III                     | O-320                      | CH48110-1               | CFO-100-1        | 182Q, R                                                                                                                                                                                                | O-470-U++      | CH48108-1               | CFO-100-1        |
| 23                            | O-320                      | CH48110-1               | CFO-100-1        | 182S                                                                                                                                                                                                   | IO-540-AB1A5   | CH48110-1               | -                |
| A23-19, 19A, B19 Sport        | O-320                      | CH48110-1               | CFO-100-1        | A182 K thru N                                                                                                                                                                                          | O-470          | CH48108-1               | CFO-100-1        |
| A23, 23, A23A                 | IO-346                     | -                       | CFO-100-1        | 182-S/N 67042 & Up                                                                                                                                                                                     | O-470-U++      | CH48108-1               | -                |
| A23, A23A                     | IO-346A                    | CH48109-1               | -                | F182-S/N 00130 & Up                                                                                                                                                                                    | O-470-U++      | CH48108-1               | -                |
| B23, C23 Sundowner            | O-360                      | CH48110-1               | CFO-100-1        | R182                                                                                                                                                                                                   | O-540-J3C5D    | CH48103-1               | CFO-100-1        |
| B23                           | O-360A4JD                  | CH48103-1               | CFO-100-1        | T182                                                                                                                                                                                                   | O-540-L3C5D    | CH48103-1               | CFO-100-1        |
| <b>SIERRA</b>                 |                            |                         |                  | TR182, FTR182                                                                                                                                                                                          | O-540-L3C5D    | CH48103-1               | CFO-100-1        |
| 24, A-24, A-24R, B-24R, C-24R | IO-360, -L2A               | CH48110-1               | CFO-100-1        | 185 A thru D                                                                                                                                                                                           | IO-470, IO-520 | CH48108-1               | CFO-100-1        |
| <b>SKIPPER</b>                |                            |                         |                  | A185E, F                                                                                                                                                                                               | IO-470, IO-520 | CH48108-1               | CFO-100-1        |
| 77                            | O-235-L2C                  | CH48110-1               | -                | 185-S/N 03852 & Up                                                                                                                                                                                     | IO-520         | CH48108-1               | -                |
| <b>BEECH</b>                  |                            |                         |                  | 188                                                                                                                                                                                                    | O-470, IO-520  | CH48108-1               | CFO-100-1        |
| <b>BARON</b>                  |                            |                         |                  | 188-S/N 03474 & Up                                                                                                                                                                                     | IO-520D        | CH48109-1               | -                |
| C55, D55, E55, 58             | IO-520                     | -                       | CFO-100-1        | T188-S/N 03474 & Up                                                                                                                                                                                    | TSIO-520       | CH48109-1               | -                |
| C55, D55, E55, 58             | IO-520C                    | CH48109-1               | -                | 205A                                                                                                                                                                                                   | IO-470         | CH48108-1               | CFO-100-1        |
| 56TC, A56TC                   | TIO-541-E                  | CH48104-1               | CFO-101-1        | C-206                                                                                                                                                                                                  | IO-540         | CH48110-1               | CFO-100-1        |
| Baron 58P                     | TSIO-520-L++               | -                       | CFO-100-1        | 206 A thru G                                                                                                                                                                                           | IO-520         | CH48108-1               | CFO-100-1        |
| Baron 58P, 58TC               | TSIO-520-L, -W, -B         | CH48108-1               | -                | 206H                                                                                                                                                                                                   | IO-540-AC1A5   | CH48110-1               | -                |
| Baron 58C, 550                | IO-550                     | CH48109-1               | -                | 206-S/N 05030 & Up                                                                                                                                                                                     | IO-520         | CH48109-1               | -                |
| <b>DUKE</b>                   |                            |                         |                  | 206-S/N 05030 & Up                                                                                                                                                                                     | TSIO-520       | CH48109-1               | -                |
| 60, A60, B60                  | TIO-541                    | CH48104-1               | CFO-101-1        | U206                                                                                                                                                                                                   | IO-520         | CH48108-1               | CFO-100-1        |
| <b>QUEEN AIR</b>              |                            |                         |                  | T-206H                                                                                                                                                                                                 | TIO540-AJ1A    | CH48110-1               | -                |
| 65, 70                        | IGSO-480                   | CH48111-1               | CFO-101-1        | TU-206                                                                                                                                                                                                 | TSIO-520       | CH48108-1               | CFO-100-1        |
| 80, 88, B80                   | IGSO-540                   | CH48111-1               | CFO-101-1        | P206                                                                                                                                                                                                   | IO-520         | CH48108-1               | CFO-100-1        |
| <b>TRAVEL AIR</b>             |                            |                         |                  | TP206                                                                                                                                                                                                  | TSIO-520       | CH48108-1               | CFO-100-1        |
| 95, B95                       | O-360                      | CH48110-1               | CFO-100-1        | 207                                                                                                                                                                                                    | IO-520         | CH48108-1               | CFO-100-1        |
| B95A, D95A, E95               | IO-360, L2A                | CH48110-1               | CFO-100-1        | 207-S/N 05227 & Up                                                                                                                                                                                     | IO-520         | CH48109-1               | -                |
| <b>DUCHESS</b>                |                            |                         |                  | T207-S/N 05227 & Up                                                                                                                                                                                    | TSIO-520       | CH48109-1               | -                |
| 76                            | LO-360-A1G6D & O-360-A1G6D | CH48103-1               |                  | T207                                                                                                                                                                                                   | TSIO-520       | CH48108-1               | CFO-100-1        |
| <b>BELLANCA</b>               |                            |                         |                  | 210                                                                                                                                                                                                    | IO-470, IO-520 | CH48108-1               | CFO-100-1        |
| 17-31A, 17-31ATC              | IO-540-K                   | CH48110-1               | CFO-100-1        | 210-S/N 63373-63375 & Up                                                                                                                                                                               | IO-520         | CH48109-1               | -                |
| 17-31A Viking                 | IO-540-K                   | CH48110-1               | CFO-100-1        | T210-S/N 63373-63375 & Up                                                                                                                                                                              | TSIO-520       | CH48108-1               | -                |
| 17-31A Viking                 | IO-520-D                   | -                       | CFO-100-1        | P210-S/N 278 & Up                                                                                                                                                                                      | TSIO-520       | CH48108-1               | -                |
| 17-31ATC Turbo                | TIO-540                    | CH48110-1               | CFO-100-1        | T210, P210-S/N 1-277                                                                                                                                                                                   | TSIO-520++     | CH48108-1               | CFO-100-1        |

Aircraft engines not listed, but equipped with oil filters at overhaul, may accept Champion filters. Contact Aviation Service Department for further information. Please include description of your engine.

++ Reference page 25-26 for other TCM application data.

\* Requires Lyco (54E23093)

# Oil Filters



## Aircraft Engine Applications

| Model                                             | Engine Model               | Champion Spin-On Filter | Champion Element | Model                   | Engine Model       | Champion Spin-On Filter | Champion Element |
|---------------------------------------------------|----------------------------|-------------------------|------------------|-------------------------|--------------------|-------------------------|------------------|
| <b>CESSNA</b>                                     |                            |                         |                  | <b>MAULE</b>            |                    |                         |                  |
| T303                                              | LTSIO-520-AE & TSIO-520-AE | CH48109-1               | —                | M5-180C, MX7-180        | O-360-C, -C1F      | CH48110-1               |                  |
| 310 C thru Q                                      | IO-470                     | CH48108-1               | CFO-100-1        | M5-210C                 | IO-360D, -L2A      | CH48103-1               |                  |
| 310 R                                             | IO-520-M                   | CH48108-1               | —                | M5-210TC                | TO-360-C1A6D       | CH48103-1               |                  |
| T310P, Q, R                                       | TSIO-520-B                 | CH48108-1               | CFO-100-1        | M5-235C, M6-235, M7-235 | O-540-J1A5D        | CH48103-1               |                  |
| 320-A                                             | TSIO-470                   | CH48104-1               | —                | MX-7-235                | O-540-W1A5D        | CH48103-1               |                  |
| 320-B, C                                          | TSIO-470                   | CH48109-1               | CFO-101-1        | <b>MOONEY AIRCRAFT</b>  |                    |                         |                  |
| 320-D                                             | TSIO-520                   | —                       | CFO-100-1        | M20A, B, Mark21         | O-360              | CH48110-1               |                  |
| 320-D, E, F                                       | TSIO-520-B                 | CH48108-1               | —                | M20D Master             | O-360              | CH48110-1               | CFO-100-1        |
| 335                                               | TSIO-520-EB                | CH48109-1               | —                | M20C Ranger             | O-360              | CH48110-1               |                  |
| 336                                               | IO-360                     | CH48108-1               | CFO-100-1        | M20G Statesman          | O-360              | CH48110-1               | CFO-100-1        |
| 337                                               | IO-360                     | CH48108-1               | CFO-100-1        | M20E Chaparral          | IO-360, -L2A       | CH48110-1               | CFO-100-1        |
| P337, P337H                                       | TSIO-360                   | CH48108-1               | CFO-100-1        | M20F Executive          | IO-360, -L2A       | CH48110-1               | CFO-100-1        |
| T337H                                             | TSIO-360-H                 | CH48108-1               | CFO-100-1        | M20J-201                | IO-360-A3B6D, -L2A | CH48103-1               | —                |
| 340                                               | TSIO-520-K                 | CH48108-1               | —                | M20K-231                | TSIO-360-G, LB     | CH48108-1               |                  |
| 340A                                              | TSIO-520-N, -NB            | CH48109-1               | CFO-100-1        | M20M-TLS                | TIO-540-AFIA, B    | CH48110-1               |                  |
| 401/402                                           | TSIO-520-E                 | CH48108-1               | CFO-100-1        | M20R                    | IO-550             | CH48108-1               | —                |
| 402C                                              | TSIO-520-VB                | CH48109-1               | CFO-100-1        | M22 Mustang             | TIO-541            | CH48110-1               | CFO-100-1        |
| 404                                               | GTSIO-520-M                | CH48111-1               | CFO-101-1        | M20K-252 TSE            | TSIO-360-MB1       | CH48108-1               | —                |
| 411-S/N 000 thru 0126                             | GTSIO-520-C                | CH48104-1               | —                | <b>PIPER</b>            |                    |                         |                  |
| 411-S/N 0127 and up                               | GTSIO-520-C                | CH48111-1               | CFO-101-1        | <b>CUB</b>              |                    |                         |                  |
| 414, 414A                                         | TSIO-520-J, -N             | CH48108-1               | —                | PA-18 "150"             | O-320              | CH48110-1               | CFO-100-1        |
| 421A, B                                           | GTSIO-520-D, -H,           | CH48111-1               | CFO-101-1        | <b>TRI-PACER</b>        |                    |                         |                  |
| 421C-S/N 1017 thru 1404                           | -L, -N, ++                 | CH48111-1               | CFO-101-1        | PA-22 "150"             | O-320              | CH48110-1               | CFO-100-1        |
| <b>CIRRUS AIRCRAFT</b>                            |                            |                         |                  | PA-22 "160"             | O-320              | CH48110-1               | CFO-100-1        |
| SRV, SR20                                         | IO-360ES                   | CH48108-1               |                  | <b>COMANCHE</b>         |                    |                         |                  |
| SR22                                              | IO-550N                    | CH48109-1               |                  | PA-24 "180"             | O-360              | CH48110-1               | CFO-100-1        |
| <b>COLUMBIA/LANCAIR</b>                           |                            |                         |                  | PA-24 "250"             | O-540 or IO-540    | CH48110-1               | CFO-100-1        |
| COLUMBIA 300, 350                                 | IO-550N                    | CH48109-1               | CFO-100-1        | PA-24B, PA-24C "260"    | O-540 or IO-540    | CH48110-1               | CFO-100-1        |
| COLUMBIA 400                                      | TS10-550                   | CH48109-1               | CFO-100-1        | PA-24 Turbo "260"       | IO-540             | CH48110-1               | CFO-100-1        |
| <b>DIAMOND AIRCRAFT</b>                           |                            |                         |                  | <b>PAWNEE</b>           |                    |                         |                  |
| DA20-1C                                           | IO-240                     | CH48108-1               | CFO-100-1        | PA-25 "150"             | O-320              | CH48110-1               | CFO-100-1        |
| DA40-180                                          | IO-360                     | CH48110-1               | CFO-100-1        | A25 "260"               | O-540              | CH48110-1               | CFO-100-1        |
| <b>GULFSTREAM AMERICAN (Single Engine Models)</b> |                            |                         |                  | PA-36 Brave             | 6-285B             | CH48109-1               | —                |
| AA-1, 1A, 1B, 1B Trainer, TR                      | 2/Lyco O-235               | CH48110-1               | CFO-100-1        | PA-36-375 Brave         | IO-720-D1C         | CH48110-1               | CFO-100-1        |
| A1C Lynx, T-Cat                                   | Lyco O-235-L               | CH48110-1               | CFO-100-1        | PA-36-400 Brave         | IO-720D1CD         | CH48104-1               | CFO-101-1        |
| AA-5 Traveler                                     | Lyco O-320-E               | CH48110-1               | CFO-100-1        | <b>CHEROKEE, CADET</b>  |                    |                         |                  |
| AA-5A Cheetah                                     | Lyco O-320-E               | CH48110-1               | CFO-100-1        | PA-28 "140"             | O-320              | CH48110-1               | CFO-100-1        |
| AA-5B Tiger                                       | Lyco O-360-A4K             | CH48110-1               | CFO-100-1        | PA-28 "150"             | O-320              | CH48110-1               | CFO-100-1        |
| Cougar                                            | 2/Lyco O-320-D             | CH48110-1               | CFO-100-1        | PA-28 "160", "161"      | O-320              | CH48110-1               | CFO-100-1        |
| <b>COMMANDER</b>                                  |                            |                         |                  | PA-28 "180"             | O-360              | CH48110-1               | CFO-100-1        |
| 112, 112A                                         | IO-360-C, -L2A             | CH48110-1               | CFO-100-1        | PA-28 "180", "181"      | O-360-A4M          | CH48110-1               | CFO-100-1        |
| 112TC                                             | TO-360-C1A6D               | CH48103-1               | CFO-100-1        | PA-28 "235"             | O-540              | CH48110-1               | CFO-100-1        |
| 114                                               | IO-540-T4A5D               | CH48103-1               | CFO-100-1        | PA-28 "151"             | O-320              | CH48110-1               | CFO-100-1        |
| 500B, 500U                                        | IO-540                     | CH48110-1               | CFO-100-1        | <b>ARROW</b>            |                    |                         |                  |
| 700                                               | TIO-540-R2AD               | CH48103-1               | CFO-100-1        | PA-28R "180"            | IO-360, L2A        | CH48110-1               | CFO-100-1        |
|                                                   |                            |                         |                  | PA-28R "180"            | IO-360-C1CD, L2A   | CH48103-1               | CFO-100-1        |
|                                                   |                            |                         |                  | PA-28R "200"            |                    |                         |                  |
|                                                   |                            |                         |                  | Arrow II                | IO-360, L2A        | CH48110-1               | CFO-100-1        |
|                                                   |                            |                         |                  | PA-284 "200"            |                    |                         |                  |
|                                                   |                            |                         |                  | Turbo Arrow III         | TSIO-360           | CH48108-1               | —                |
|                                                   |                            |                         |                  | PA-28-R-201T            | TSIO-360-F1        | CH48108-1               |                  |

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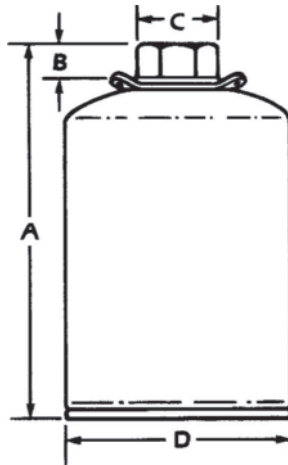


# Oil Filters

## Aircraft Engine Applications

| Model                                                                                                                                                   | Engine Model                                                                                                                   | Champion Spin-On Filter                                                                                                         | Champion Element                                                                                                  | Model                                                                                                                                | Engine Model                                                                                                       | Champion Spin-On Filter                                                                              | Champion Element                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>DAKOTA</b><br>PA-28-235<br>PA-28-201T                                                                                                                | O-540-J3A5D<br>TSIO-360-FB                                                                                                     | CH48103-1 *<br>CH48108-1                                                                                                        | CFO-100-1<br>-                                                                                                    | <b>TWIN COMMANCHE</b><br>PA-30 "160" Turbo<br>PA-39 "160"                                                                            | IO-320<br>IO-320<br>LIO-320<br>IO-320<br>LIO-320                                                                   | CH48110-1<br>CH48110-1<br>CH48110-1<br>CH48110-1<br>CH48110-1                                        | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1                                        |
| <b>CHEROKEE SIX</b><br>PA-32 "260"<br>PA-32 "300"<br>PA-32R "300"<br>PA-32R "300"<br>PA-32RT-300T<br>PA-32-301<br>PA-32-301<br>PA-32R-301<br>PA-32R-301 | O-540<br>IO-540<br>IO-540-K1AD<br>TIO-540-S1AD<br>TIO-540-S1AD<br>IO-540-K1G5D<br>TIO-540-S1AD<br>IO-540-K1G5D<br>TIO-540-S1AD | CH48110-1<br>CH48110-1<br>CH48103-1 *<br>CH48103-1 *<br>CH48103-1 *<br>CH48103-1 *<br>CH48103-1 *<br>CH48103-1 *<br>CH48103-1 * | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1 | <b>NAVAJO</b><br>PA-31 "300"<br>PA-31 "310" Turbo<br>PA-31 "325"<br><br>PA-31 "350" Chieftain<br>PA-31P "425"<br>PA-31P "350" Mojave | IO-540<br>TIO-540<br>IO-540-F2BD<br>LTIO-540-F2BD<br>TIO-540-J2BD<br>LTIO-540-J2BD<br>TIGO-541<br>TIO/LIO-540-V2AD | CH48110-1<br>CH48110-1<br>CH48103-1<br>CH48103-1<br>CH48103-1<br>CH48103-1<br>CH48104-1<br>CH48104-1 | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-101-1<br>CFO-101-1 |
| <b>TOMAHAWK</b><br>Trainer PA-38-112                                                                                                                    | O-235-L2C                                                                                                                      | CH48103-1 *                                                                                                                     | CFO-100-1                                                                                                         | <b>SENECA</b><br>PA-34<br><br>PA-34<br><br>Seneca II<br><br>Seneca III<br>PA-34-220T                                                 | IO-360C<br>LIO-360C<br>IO-360-C1E6D<br>LIO-360-C1E6D<br>LTIO-360-E<br>TSIO-360-E<br>TSIO-360-KB<br>LTIO-360-KB     | CH48110-1<br>CH48110-1<br>CH48103-1<br>CH48103-1<br>CH48108-1<br>CH48108-1<br>CH48108-1<br>CH48108-1 | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>-<br>-<br>-<br>-                                 |
| <b>MALIBU</b><br>PA-46-301P                                                                                                                             | Cont TSIO-520-BE                                                                                                               | CH48109-1                                                                                                                       |                                                                                                                   | <b>PIPER AEROSTAR</b><br>PA-60-600, -600A<br>PA-60-604, -601B<br>PA-60-601P<br>PA-60-602P                                            | IO-540-G, -K<br>IO-540-P, -S<br>IO-540-S<br>IO-540-AA1A5                                                           | CH48110-1<br>CH48110-1<br>CH48110-1<br>CH48110-1                                                     | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br>CFO-100-1                                                     |
| <b>MALIBU MIRAGE</b><br>PA-46-350-P                                                                                                                     | Lyco TIO-540-AE2A                                                                                                              | CH48103-1                                                                                                                       |                                                                                                                   | <b>SEMINOLE</b><br>PA-44-180<br>PA-44-180T                                                                                           | O-360-E1AD<br>TO-360-E1A6D<br>LTO-360-E1A6D                                                                        | CH48103-1 *<br>CH48103-1 *                                                                           | CFO-100-1<br>CFO-100-1                                                                               |
| <b>APACHE</b><br>PA-23 "150"<br>PA-23 "160"<br>PA-23 "235"                                                                                              | O-320<br>O-320<br>O-540                                                                                                        | CH48110-1<br>CH48110-1<br>CH48110-1                                                                                             | CFO-100-1<br>CFO-100-1<br>CFO-100-1                                                                               |                                                                                                                                      |                                                                                                                    |                                                                                                      |                                                                                                      |
| <b>AZTEC</b><br>PA-23 "250"<br>"C" PA-23<br>PA-23 Turbo "250"<br>"C", "D", "E", "F"<br>PA-23 Turbo "250"                                                | O-540<br>IO-540<br>IO-540<br><br>TIO-540                                                                                       | CH48110-1<br>CH48110-1<br>CH48110-1<br><br>CH48110-1                                                                            | CFO-100-1<br>CFO-100-1<br>CFO-100-1<br><br>CFO-100-1                                                              |                                                                                                                                      |                                                                                                                    |                                                                                                      |                                                                                                      |

## Dimensional Data



### Popular spin-on oil filters

| Champion Part No. | A               | B               | C                   | D              | Thread (SAE)    | Dry Weight Lbs./Kg. |
|-------------------|-----------------|-----------------|---------------------|----------------|-----------------|---------------------|
| CH48103-1         | 4.48" (11.4 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 13/16-16-UNS-2B | 1.32lbs. (0.59kg)   |
| CH48104-1         | 5.73" (14.6 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 13/16-16-UNS-2B | 1.41lbs. (0.64kg)   |
| CH48108-1         | 4.48" (11.4 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 3/4-16-UNF-2B   | 1.40lbs. (0.64kg)   |
| CH48109-1         | 5.73" (14.6 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 3/4-16-UNF-2B   | 1.51lbs. (0.68kg)   |
| CH48110-1         | 4.48" (11.4 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 3/4-16-UNF-2A   | 1.38lbs. (0.63kg)   |
| CH48111-1         | 5.73" (14.6 cm) | 0.43" (1.09 cm) | 1.00" Hex (2.54 cm) | 3.71" (9.4 cm) | 3/4-16-UNF-2A   | 1.47lbs. (0.67kg)   |

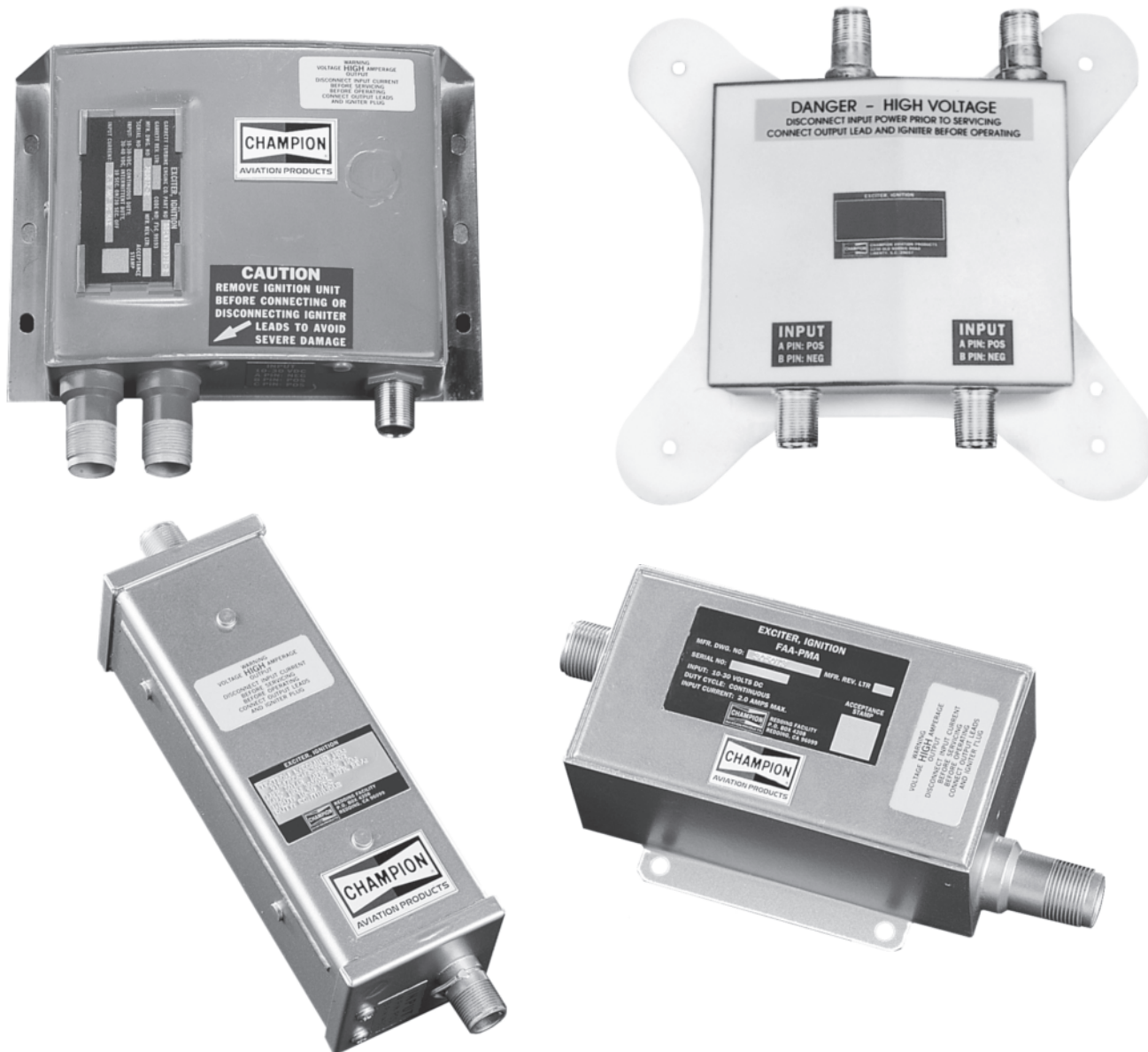
Aircraft engines not listed, but equipped with oil filters at overhaul, may accept Champion filters. Write Aviation Service Department for further information. Please include description of your engine.

\* Requires Lyco (54E23093)

# Turbine Exciters



## Product Features



**Turbine Exciters**

### Champion Quality and Reliability.

Every Champion Aerospace exciter carries our full warranty and is backed by the Champion name. Our exciters are built to the same exacting standards that have made us a leader in aviation products for over 75 years.

### Champion Exciters are Widely Used in the Following Engine Applications:

#### Honeywell:

AS907, TPE331, TFE731, ALF502,  
LF507, 131-9A/B, 331-600

#### Pratt & Whitney:

PW150, PW206, PW308, JT15D, PT6A, PT6C, PW207

#### Sundstrand:

APS2000

#### Williams/Rolls-Royce:

FJ44-1A, FJ33





# Turbine Exciters

## Aircraft Engine Applications

| Engine Application                                                                                                                                           | Champion Part Number | OEM Part Number      | Applications               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------------|
| <b>Honeywell Engines</b>                                                                                                                                     |                      |                      |                            |
| HTF7000 (formerly AS907)                                                                                                                                     | CH92074-2            | 3038100-5            |                            |
| TPE331-10U, -11, -12, -14A/14B                                                                                                                               |                      |                      |                            |
| TFE731-2-1C/-2B                                                                                                                                              |                      |                      |                            |
| TFE731-3-1C/1E                                                                                                                                               |                      |                      |                            |
| TFE731-3-1F/1G                                                                                                                                               |                      |                      |                            |
| TFE731-3A-2B/-200G                                                                                                                                           | 305012-2             | 3070378-2            |                            |
| TFE731-3AR/200G                                                                                                                                              |                      |                      |                            |
| TFE731-3B-100S                                                                                                                                               |                      |                      |                            |
| TFE731-3BR-100S                                                                                                                                              |                      |                      |                            |
| TFE731-3R-1D                                                                                                                                                 |                      |                      |                            |
| TFE731-5-1B, -5A-1C, -5R-1H                                                                                                                                  |                      |                      |                            |
| ALF 502R-3, -3A, -5                                                                                                                                          |                      |                      |                            |
| ALF 502L, L2, L2A, L2C, L3                                                                                                                                   | 305050               | 2-303-026-02         |                            |
| LF507-1F, 1H                                                                                                                                                 |                      |                      |                            |
| 131-9B                                                                                                                                                       | CH92036              | 3888058-7            | Boeing 737-600,-700,-800   |
| 131-9A                                                                                                                                                       | CH92036              | 3888058-7            | Airbus A319, A320, A321,   |
| 331-600                                                                                                                                                      |                      |                      | 340-500, -600              |
| <b>Pratt &amp; Whitney Canada</b>                                                                                                                            |                      |                      |                            |
| JT15D-1, -1A, -1B, -4, -4B, -4D, -5, 5A                                                                                                                      | CH92028              | 3041996-01           |                            |
| PW150                                                                                                                                                        | CH92043-2            | 3122413-07           |                            |
|                                                                                                                                                              | CH92043-3            | 3122413-08           |                            |
| PW308C                                                                                                                                                       | CH92051-3            | 30C1132-04           |                            |
|                                                                                                                                                              | CH92051-4            | 30C1132-05           |                            |
| PW307A                                                                                                                                                       | CH92083-5            | 30P0604-06           |                            |
|                                                                                                                                                              | CH92083-6            | 30P0604-07           |                            |
| PW206A, B, B2, C, E, PW207C, D, D1, D2, E, PT6C-67C, -67D                                                                                                    | CH92015              | 3043937-01, -02, -03 |                            |
|                                                                                                                                                              | CH92106              |                      |                            |
| PT6A-21, -27, -28, -34, -34AG, -34B, -36, -41, -42, -52, -60A, -61, -65B, -67B, -67D, -67P, -114, -114A, -135, -135A, PT6C-67C, PT6T-3, -3B, -3E, -3BF, -3BG | CH92015-1            | 3043937-04           |                            |
|                                                                                                                                                              | CH92106-1            | 3043937-06           |                            |
| PW308A                                                                                                                                                       | CH92090-1            | 30C4946-02           |                            |
|                                                                                                                                                              | CH92090-2            | 30C4946-03           |                            |
| <b>Sundstrand APIC (Auxiliary Power International)</b>                                                                                                       |                      |                      |                            |
| APS 2000                                                                                                                                                     | 305088-2             | 179420-2             | Boeing 737-300, -400, -500 |
| APS2300                                                                                                                                                      | CH92073-1            | 4952793              |                            |
| <b>Williams International/Rolls-Royce</b>                                                                                                                    |                      |                      |                            |
| FJ44 Series                                                                                                                                                  |                      |                      | Citation Jet, CJ1, CJ2     |
|                                                                                                                                                              | CH92007-1            | 68145                |                            |
| FJ33                                                                                                                                                         | CH92070-1            | 71294                |                            |

## Notes

\*FAA-PMA Pending.

**36 Contact your preferred distributor for Champion factory FAA certified Exciter overhaul program.**

# Turbine Ignition Leads



## Product Features

**Contact Assembly** - Provides sure sparks and clean, positive contact between lead, igniter and exciter.

**Military-Grade Stainless Steel Shielding** - Provides positive RFI protection and resists abrasion.

**Core Assembly** - Meets stringent OEM and military requirements and provides maximum spark efficiency and insulation value.



**Turbine Ignition Leads**

Champion Aerospace provides OEMs with high-quality, military-grade ignition leads manufactured with technology designed for the 21<sup>st</sup> century. Champion is a full ignition system supplier to the turbine engine market.

Champion has moved rapidly to supply the turbine aftermarket with top-quality, cost-effective replacement leads, as well as offering a lead overhaul program, a unique maintenance alternative. Regular, preventive maintenance helps avoid costly, unscheduled maintenance caused by worn turbine ignition leads. Often, cables that do not appear worn, but have weak shielding or poor connections can actually be about to fail. Whether you buy new FAA-PMA approved replacement leads or choose to overhaul your current leads, you're assured of quality, prompt delivery and maximum reliability.



# Turbine Ignition Leads

## Aircraft Engine Applications

| ENGINE APPLICATION                                                                                                                        | CHAMPION LEAD NO.                                                                                                                                               | OEM LEAD NO.                                                                                                                                  | AIRCRAFT APPLICATIONS                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Allison Engine Company (Rolls-Royce)</b>                                                                                               |                                                                                                                                                                 |                                                                                                                                               |                                                                                                |
| 250-B17C (All), -B17D (All), -B17E, -B17F (All), -B17F/1, -B17F2, -C20S                                                                   | CH53351                                                                                                                                                         | 23060813                                                                                                                                      |                                                                                                |
| 250-C18, -C18A, -C18B, -C18C5, -C19, -C20, -C20B (All), -C20 (T63-A-720), -C20J (All), -C20R/1, -C20R/2 (All), -C204/4                    | 53247                                                                                                                                                           | 23060814                                                                                                                                      |                                                                                                |
| 250-C30 (All), -C30G, -C30G/2, -C30M, -C30S, -C40B                                                                                        | 53158                                                                                                                                                           | 23060815                                                                                                                                      |                                                                                                |
| 250-C20W, -C30 (All), -C30G, -C30L, -C30M, -C30P, -C30R, -C30R/1, -C30S, -C30U, -C47B, -C47M                                              | 53159                                                                                                                                                           | 23060816                                                                                                                                      |                                                                                                |
| 250-C28B, -C28C                                                                                                                           | 53153                                                                                                                                                           | 22306817                                                                                                                                      |                                                                                                |
| 250-C20F, -C20R (All)                                                                                                                     | 53270                                                                                                                                                           | 23060818                                                                                                                                      |                                                                                                |
| <b>General Electric</b>                                                                                                                   |                                                                                                                                                                 |                                                                                                                                               |                                                                                                |
| CF34-3A1, -3B, -3B1                                                                                                                       | CH53515-3<br>CH53515-4                                                                                                                                          | 4096T96P03<br>4096T96P04                                                                                                                      |                                                                                                |
| CF34-8C1, C5                                                                                                                              | CH53515-1<br>CH53515-2                                                                                                                                          | 4096T96P07<br>4096T96P08                                                                                                                      |                                                                                                |
| CF34-8C5A1/A3                                                                                                                             | CH53515-1<br>CH53515-5                                                                                                                                          | 4096T96P07<br>4096T96P11                                                                                                                      |                                                                                                |
| CFE738-1, -1B                                                                                                                             | 53323-4                                                                                                                                                         | 3051406-4                                                                                                                                     |                                                                                                |
| <b>Honeywell</b>                                                                                                                          |                                                                                                                                                                 |                                                                                                                                               |                                                                                                |
| ALF502L-2, -2A, -2C, -3                                                                                                                   |                                                                                                                                                                 |                                                                                                                                               | Canadair Challenger 600                                                                        |
| ALF502R-3, -3A, -5, -6                                                                                                                    | 53282 (Jumper)<br>53283 (Jumper)<br>53214 (Jumper A)<br>53215 (Jumper B)<br>53214, 53215, (Jumper)<br><br>53216-1, 53217-1 (Ign. A, B)<br><br>53217-1, (Ign. B) | 2-303-025-02<br>2-303-079-02<br>2-303-766-02<br>2-303-767-02<br>2-303-766-02,<br>2-303-767-02<br>2-303-768-03<br>2-303-769-03<br>2-303-769-03 | BAe 146-10<br><br>BAe 146-300 Series                                                           |
| LF507-IF, -IH                                                                                                                             | 53214 (Jumper A)<br>53215 (Jumper B)<br>53216-1 (Ign. A)                                                                                                        | 2-303-766-02<br>2-303-767-02<br>2-303-768-03                                                                                                  | AVRO RJ Series<br>(Formerly BAe)                                                               |
| LF507-1F, 1H, AS907-1, 1A                                                                                                                 | 53217-1 (Ign. B)<br>53280-1<br>53281-1<br>53282 (Jumper B)<br>53283 (Jumper B)                                                                                  | 2-303-769-03<br>2-303-742-03<br>2-303-743-03<br>2-303-025-02<br>2-303-079-02                                                                  | AVRO RJ Series<br>(Formerly BAe)                                                               |
| HTF7000 (formerly AS907)                                                                                                                  | 53542-1                                                                                                                                                         | 3038111-1                                                                                                                                     | Challenger 300                                                                                 |
| TPE331-25DA                                                                                                                               | 50221-18                                                                                                                                                        | 369876-18                                                                                                                                     |                                                                                                |
| TPE331-25FA                                                                                                                               | 50221-21                                                                                                                                                        | 369876-21                                                                                                                                     | Air Asia, Porter                                                                               |
| TPE 331-2-0014                                                                                                                            | 50221-15<br>50221-16                                                                                                                                            | 369876-15<br>369876-16                                                                                                                        | Skyvan                                                                                         |
| TPE331-2UA-203D                                                                                                                           | 50221-12                                                                                                                                                        | 369876-12                                                                                                                                     | Alaska Wildlife, DHC3 Beaver,                                                                  |
| TPE331-55B<br>TPE331-1-101E<br>TPE331-1-101Z<br>TPE331-3U-303V                                                                            | 50221-7                                                                                                                                                         | 369876-7                                                                                                                                      | Carstedt, Jetliner 600A<br>Jetliner 600B<br>Marsh, Turbo Thrush<br>Handley Page, Jetstream III |
| TPE331-10UF-501H<br>TPE331-10UF-511H<br>TPE331-10UF-512H<br>TPE331-10UF-513H<br>TPE331-10UG-513H<br>TPE331-10UG-514H<br>TPE331-10UGR-513H | 50221-24<br>50221-25                                                                                                                                            | 369876-24<br>369876-25                                                                                                                        | CASA-212<br>Jetstream 31<br>Merlin 300<br>MU-2                                                 |

This chart is for reference only. Lead installation may change as a result of variations in ignition system configuration. Consult latest revision of the appropriate illustrated parts catalog for specific data. Champion FAA-PMA leads are manufactured by Champion Aerospace LLC

**38 Contact your preferred distributor for Champion factory FAA certified lead overhaul program.**

# Turbine Ignition Leads



## Aircraft Engine Applications

| ENGINE APPLICATION                                  | CHAMPION LEAD NO. | OEM LEAD NO. | AIRCRAFT APPLICATIONS               |
|-----------------------------------------------------|-------------------|--------------|-------------------------------------|
| <b>Honeywell (Cont'd)</b>                           |                   |              |                                     |
| TPE331-10UGR-514H                                   | 50221-24          | 369876-24    | Cessna, 441 Conquest                |
| TPE331-10UR-513H                                    | 50221-25          | 369876-25    | Fairchild, IV/Metro I, IVA/Metro II |
| TPE331-8-401S                                       |                   |              |                                     |
| TPE331-8-402S                                       |                   |              |                                     |
| TPE331-8-403S                                       |                   |              |                                     |
| TPE331-3UW-303G                                     |                   |              |                                     |
| TPE331-3U-303G                                      |                   |              |                                     |
| TPE331-3-303G                                       |                   |              |                                     |
| TPE331-3-304G                                       |                   |              |                                     |
| TPE331-6-252B                                       | 50221-24          | 369876-24    | Bech, B-100 King Air                |
| TPE331-2-201C                                       | 50221-8           | 369876-8     | CASA, 212-100                       |
| TPE331-5-251C                                       |                   |              | 212-100                             |
| TPE331-10-501C                                      |                   |              | 980/1000                            |
| TPE331-10-511C                                      |                   |              | Mitsubishi, Marquise, Solitaire     |
| TPE331-5-252D                                       | 50221-22          | 369876-22    | Dornier, 228                        |
| TPE331-5-252K                                       | 50221-9           | 369876-9     | 690B                                |
| TPE331-5-252M                                       |                   |              | MU-2N                               |
| TPE331-1-151A                                       |                   |              | MU-2DP, MU-2F, MU-2G                |
| TPE331-1-151G                                       | 50221-15          | 369876-15    | Merlin IIB                          |
|                                                     | 50221-16          | 369876-16    |                                     |
| TPE331-10UA-501G                                    | 50221-24          | 369876-24    | Merlin III, IIIA, IV, IVA,          |
| TPE331-10UA-511G                                    | 50221-29          | 369876-29    | Metro II-10                         |
| TPE331-10U-511G                                     | 50221-24          | 369876-24    | Merlin IIIB                         |
| TPE331-10U-512G                                     | 50221-28          | 369876-28    | Merlin IIIC                         |
| TPE331-10U-513G                                     | 50221-32          |              | Merlin IVC, Metro III               |
| TPE331-11U-612G                                     | 50221-33          |              | Metro, II, IIA                      |
| TPE331-43A                                          | 50221-7           | 369876-7     | Gulfstream Commander,               |
| TPE331-43B                                          | 50221-9           | 369876-9     | 680T, 680V, 680W, 681               |
| TPE331-5-251K                                       | 50221-12          | 369876-12    | 690/690A                            |
| TPE331-5-254K                                       | 50221-9           | 369876-9     | 840                                 |
| TPE331-6-251M                                       |                   |              | MU-2K, MU-2L, MU-2M, MU-2S          |
| TPE331-25AA                                         | 50221-19          | 369876-19    | MU-2B                               |
| TPE331-25AB                                         | 50221-9           | 369876-9     | MU-2D                               |
| TPE331-14A-601P                                     | 53133-5           | 3105589-5    |                                     |
|                                                     | 53133-6           | 3105589-6    | Piper, Cheyenne 400LS               |
| TPE331-14GR/HR                                      | 53338-1           | 3105901-1    | Jetstream 41                        |
|                                                     | 53339-1           | 3105902-1    |                                     |
| TPE331-14, -14A, -14B, -15                          | 53133-5           | 3105589-5    | Piper, Cheyenne 400LS               |
| TPE331-14, -14A, -14B                               | 53133-6           | 3105589-6    |                                     |
| TPE351-20                                           | 53133-7           | 3105589-7    |                                     |
| TFE731-2, -3, -3A, -3AR, -3-1F, -3B, -3BR, -3R, -5R | 53142-10          | 3071590-10   | AAC, HS125-700                      |
|                                                     | 53142-11          | 3071590-11   |                                     |
| TFE731-3-1E                                         | 53142-10          | 3071590-10   | Jetstar 731                         |
| TFE731-3-1G                                         | 53142-11          | 3071590-11   | IAI, 1124 Westwind,                 |
| TFE731-3-5A-1C                                      |                   |              | Sabreliner 65, Falcon 50            |
| TFE731-3R-1H                                        | 53142-10          | 3071590-10   | BAe, HS125-700                      |
| TFE731-3B-100S                                      | 53142-11          | 3071590-11   | Cessna, Citation III, Citation VII  |
| TFE731-2, -3A, -3BR-100S                            | 53142-12          | 3071590-12   |                                     |
| TFE731-3A-2B, -3B, -3R                              | 53142-13          | 3071590-13   |                                     |
| TFE731-3AR                                          |                   |              |                                     |
| TFE731-4R-2S                                        |                   |              |                                     |

This chart is for reference only. Lead installation may change as a result of variations in ignition system configuration. Consult latest revision of the appropriate illustrated parts catalog for specific data. Champion FAA-PMA leads are manufactured by Champion Aerospace LLC

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# Turbine Ignition Leads

## Aircraft Engine Applications

| ENGINE APPLICATION                                       | CHAMPION LEAD NO.              | OEM LEAD NO. | AIRCRAFT APPLICATIONS                  |
|----------------------------------------------------------|--------------------------------|--------------|----------------------------------------|
| <b>Honeywell (Cont'd)</b>                                |                                |              |                                        |
| TFE731-5R-1H                                             | 53142-10                       | 3071590-10   | HS125-800                              |
| TFE731-3-1F                                              | 53142-11                       | 3071590-11   | Lockheed, Jetstar                      |
| TFE731-2-1C                                              | 53142-12                       | 3071590-12   | Dassault, Falcon 10/100                |
| TFE731-3AR-200G                                          | 53142-13                       | 3071590-13   | 1125 Astra                             |
| TFE731-3A-200G                                           |                                |              | Model 55                               |
| TFE731-5A-1C                                             | 53142-12                       | 3071590-12   | Falcon 900                             |
| TFE731-5-1B                                              | 53142-13                       | 3071590-13   | L55                                    |
| TFE731-2-2B                                              | 53142-12+ (Pre S.B. 74-3003)   | 3071590-12   | Learjet, L35/36                        |
|                                                          | 53142-13+ (Pre S.B. 74-3003)   | 3071590-13   |                                        |
|                                                          | 53142-10++ (Post S.B. 74-3003) | 3071590-10   |                                        |
|                                                          | 53142-11++ (Post S.B. 74-3003) | 3071590-11   |                                        |
| TFE731-3R-1D                                             | 53142-12+ (Pre S.B. 74-3003)   | 3071590-12   |                                        |
|                                                          | 53142-13+ (Pre S.B. 74-3003)   | 3071590-13   |                                        |
| <b>Pratt &amp; Whitney CANADA PT-6 Series</b>            |                                |              |                                        |
| PT6A-11                                                  |                                |              | Piper Cheyenne I/IA, T1040             |
| PT6A-110                                                 |                                |              | Dornier Sky servant                    |
| PT6A-21                                                  | 53402-02                       | 3011871      | Beech C90                              |
|                                                          |                                |              | Cessna Caravan II*, Conquest I,        |
| PT6A-112                                                 | CH53399-04                     | 3119832-01   | Embraer EMB-110 P1, P2 EMB-111         |
|                                                          |                                |              | Cessna Caravan I*, Avtek 400,          |
| PT6A-114, 114A                                           |                                |              | Beech F90-1, Omac Laser 300            |
| PT6A-135A                                                |                                |              | Ayers Turbo Thrush T-11,               |
| PT6A-11AG                                                | CH53399-04                     | 3119832-01   | Schweizer G164B Turbine, Agcat         |
| PT6A-116, 121                                            | CH53399-04                     | 3119832-01   | Jetcrafters Taurus, Piper              |
|                                                          |                                |              | Cheyenne IIXL, Riley Eagle 421,        |
| PT6A-135                                                 | CH53399-04                     | 3119832-01   | Riley Turbine 210, Schafer             |
|                                                          |                                |              | Comanchero                             |
|                                                          |                                |              | Air Tractor AT400, Ayers Turbo         |
| PT6A-15AG                                                | CH53399-04                     | 3119832-01   | Thrush T-15, Frakes Turbo Cat B        |
|                                                          |                                |              | Weatherly 620TP                        |
|                                                          |                                |              | DHC-2-Turbo Beaver, Beech, C90/A       |
| PT6A, 6A, 6B                                             |                                |              | C90A, 99, Schafer Comanchero 500,      |
| PT6A-20                                                  |                                |              | Beech 99A/B, Catic Y-12, DHC-6 Twin    |
| PT6A-20A, 20B                                            | CH53399-04                     | 3119832-01   | Otter, Embraer EMB-110/B, B1, C, E,    |
| PT6A-25                                                  |                                |              | & P, Caraja, Let L-410A, Pilatus PC-6  |
| PT6A-25A                                                 |                                |              |                                        |
| PT6A-25C                                                 |                                |              |                                        |
| PT6A-36, 34, 38                                          |                                |              | Beech T34C, Beech T34C-1,1900D,        |
| PT6A-62                                                  |                                |              | NAC1T, Pilatus PC-7, Embraer           |
| PT6A-66                                                  |                                |              | EMB-312, Beech C99, Arava, Pilatus     |
| PT6A-67, 114, 114A, 135A                                 | CH53399-07*                    | 3119833-01   | PC-9, Piaggio Avanti, Beech Starship I |
| PT6A-67D                                                 | CH53399-09                     | 3119832-02   |                                        |
|                                                          | CH53399-10                     | 3119835-02   | Ratheon Beech 1900 / 1900C             |
| PT6A-28                                                  | CH53399-04                     | 3119832-01   | Beech E90, 99A, A100, Embraer          |
|                                                          |                                |              | EMB-121A, Piper Cheyenne II            |
|                                                          |                                |              | Avalon 680, Embraer EMB-110K1,         |
| PT6A-34                                                  | CH53399-04                     | 3119832-01   | S1, P1, P2, Frakes Mallard, IAI        |
|                                                          |                                |              | Arava, IAI 102, Omni Turbo Titan,      |
|                                                          |                                |              | Spectrum One                           |
|                                                          |                                |              | Ayres Turbo Thrush T34, Frakes Turbo   |
| PT6A-34AG                                                | CH53399-04                     | 3119832-01   | Cat A, B, C, NAC Fieldmaster,          |
| PT6A-41                                                  |                                |              | PzL 106A Turbo Kruk, Schweizer         |
| PT6A-42, 42A                                             |                                |              | G164B Turbine, Agcat                   |
| PT6A-45A                                                 |                                |              |                                        |
| PT6A-45B                                                 |                                |              | Beech 200, Piper Cheyenne III,         |
| PT6A-52                                                  |                                |              |                                        |
| PT6A-60A, 60AG                                           |                                |              | Beech B200, C12S, Pilatus PC-9,        |
| PT6A-61, 64                                              |                                |              | Frakes Mohawk 198, Shorts 330,         |
| PT6A-65/65B, 65AG, 66, 66A, 66B, 66D, 67, 67A, 67B, 67D, |                                |              | Beech 300, Piper Cheyenne IIIA,        |
| 67F, 67R, 67T, 67AF, 6B                                  |                                |              | Beech 1900, Hawk Gafhawk 125,          |
| PT6A-65R/AR                                              | CH53399-06                     | 3119836-01   | Shorts 360                             |

This chart is for reference only. Lead installation may change as a result of variations in ignition system configuration. Consult latest revision of the appropriate illustrated parts catalog for specific data. Champion FAA-PMA leads are manufactured by Champion Aerospace LLC.

\* Cessna Caravan, New Lead Routing Procedure, Outside Plenum. See PWC Service Bulletin 1512.

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# Turbine Ignition Leads



## Aircraft Engine Applications

| ENGINE APPLICATION                                                                                      | CHAMPION LEAD NO.             | OEM LEAD NO. | AIRCRAFT APPLICATIONS                                                               |
|---------------------------------------------------------------------------------------------------------|-------------------------------|--------------|-------------------------------------------------------------------------------------|
| <b>Pratt &amp; Whitney CANADA PT-6 Series (Cont'd)</b>                                                  |                               |              |                                                                                     |
| PT6A-41AG                                                                                               | CH53399-06                    | 3119836-01   | Frakes Turbo-CAT, Schweizer G-164D                                                  |
| PT6A-45R                                                                                                | CH53399-06                    | 3119836-01   | Fairchild Metro IIIA, Hawk Gaffhawk 125, Shorts 330, Shorts C23A Sherpa, USAC Turbo |
| PT6A-50                                                                                                 | CH53399-05                    | 3119835-01   | DHC-7                                                                               |
| PT6B-36/36A/36B/35F                                                                                     | CH53463                       | 3123061-01   | Sikorsky S-76, H-76                                                                 |
| PT 6C-67C                                                                                               | CH53490                       | 3050604-01   |                                                                                     |
| PT6T-36                                                                                                 |                               |              |                                                                                     |
| PT6T-3B/3B1/6/3BE/3D                                                                                    | CH53399-01                    | 3119829-01   | Bell 212, 412, Sikorsky S58T                                                        |
| <b>Pratt &amp; Whitney CANADA JT15D Series</b>                                                          |                               |              |                                                                                     |
| JT15D                                                                                                   |                               |              | Aerospatiale Corvette                                                               |
| JT15D-1                                                                                                 | 53067-21 (Pin Connector) T3   | 3107371-01   | Cessna Citation 500                                                                 |
| JT15D-1A/1B                                                                                             | 53067-38.5 (Pin Connector) T3 | 3107371-02   | Cessna Citation I                                                                   |
| JT15D-4                                                                                                 |                               |              | Cessna Citation II,                                                                 |
| JT15D-4B                                                                                                |                               |              | Mitsubishi Diamond I                                                                |
| JT15D-4C                                                                                                |                               |              | Cessna Citation S/II                                                                |
| JT15D-4D                                                                                                |                               |              | S211                                                                                |
| JT15D-5, 5A, 5D                                                                                         | 53300-1 (Button Connector) T5 | 3118347-01   | Mitsubishi Diamond IA                                                               |
| JT15D-5, 5A, 5D, 5F                                                                                     | 53300-2 (Button Connector) T5 | 3118347-02   | Beechjet, T-47A                                                                     |
| Reference PWC Service Bulletin to Retrofit JT15D-4 to 53300-1 & 53300-2. Also See Igniter Plug Listing. |                               |              |                                                                                     |
| <b>Pratt &amp; Whitney CANADA PW100 Series*</b>                                                         |                               |              |                                                                                     |
| PW115, 118, 118A, 199B, 120, 121, 120A                                                                  | 53367-01                      | 3120676-01   | Embraer EMB-120                                                                     |
| PW123/123AF                                                                                             | 50383H                        | 3033339      | Dornier 328                                                                         |
| PW124B/125B                                                                                             | 53302                         | 3038915      | ATR-42                                                                              |
| PW126/126A                                                                                              | 53335-01 (Ceramic)            | 3117291-01   | DHC-8-100                                                                           |
| PW127 H                                                                                                 | 50383-K                       | 3035333      | BAe ATP                                                                             |
|                                                                                                         | 53335-01                      | 3117291-01   |                                                                                     |
| PW150/150A                                                                                              | CH53536                       | 3056566-01   | Dash 8Q, 400                                                                        |
|                                                                                                         | CH53456-2                     | 3122414-04   | DeHavilland                                                                         |
| <b>Pratt &amp; Whitney CANADA PW200 Series*</b>                                                         |                               |              |                                                                                     |
| PW206A, C, E                                                                                            | CH53442-4                     | 3121144-02   | MD900, Augusta AIO9E                                                                |
|                                                                                                         | CH53530                       | 3056743-01   | MD Explorer, Bell 427, EC135                                                        |
| PW206B                                                                                                  | CH53442-3                     | 3122957-01   | EC135, Augusta AIO9E                                                                |
| PW207C, D, E                                                                                            | CH53442-4                     | 3121144-02   |                                                                                     |
| <b>Pratt &amp; Whitney CANADA PW300 Series</b>                                                          |                               |              |                                                                                     |
| PW305,306, A, B, C                                                                                      | CH53238-1                     | 31B3615-02   | BAe 1000, Lear 60                                                                   |
| PW307A                                                                                                  | CH53544-1                     | 30P0605-02   |                                                                                     |
| PW308A, C                                                                                               | CH53483-5                     | 30C1133-03   | Dassault- Falcon EX 2000                                                            |
| <b>Turbomeca</b>                                                                                        |                               |              |                                                                                     |
| Arriel 1A, -1A1, -1A2, -1B, -1D, -1D1, -1S, -1S1                                                        | 53317-3                       | 9550166530   |                                                                                     |
| <b>Williams International/Rolls-Royce</b>                                                               |                               |              |                                                                                     |
| FJ44- Series                                                                                            | 53221                         | 50853        | Cessna Citation Jet, CJ 1,2,3                                                       |
|                                                                                                         | 53279                         | 50852        | Swearingen/Jaffe SJ-30                                                              |
| <b>Turbine Engine Applications (APU)</b>                                                                |                               |              |                                                                                     |
| <b>Honeywell</b>                                                                                        |                               |              |                                                                                     |
| 36-100E                                                                                                 | 50160-61                      | 369259-61    | CL 6013A                                                                            |
| 36-100 (M)-150 (M)                                                                                      | 53359-3                       | 3888302-3    | BAe 146, 146-300                                                                    |
|                                                                                                         |                               |              | Embraer 120                                                                         |
|                                                                                                         |                               |              | BAe ATP 125-800/-1000                                                               |
|                                                                                                         |                               |              | Cessna 650                                                                          |
|                                                                                                         |                               |              | Saab 340                                                                            |
|                                                                                                         |                               |              | IAI Astea 1125                                                                      |
| 36-150 (A), (AA), (J), (W), (CX)                                                                        | 53359-6                       | 3888302-6    | Falcon 20-5                                                                         |

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\*\*Type "2" ignition systems require Champion P/N 50383K (PWC P/N 3035333) \*FAA-PMA Pending



# Turbine Ignition Leads

## Turbine Engine Applications (APU)

| ENGINE APPLICATION                                  | CHAMPION LEAD NO. | OEM LEAD NO.                                           | AIRCRAFT APPLICATIONS               |
|-----------------------------------------------------|-------------------|--------------------------------------------------------|-------------------------------------|
| Honeywell (Formerly Allied Signal Engines) (Cont'd) |                   |                                                        |                                     |
| 36-150 (R)                                          | 53359-9           | 3888302-9                                              | Fokker 100                          |
|                                                     | 53359-15          | 3888302-15                                             |                                     |
| 36-150 (RJ)                                         | 53359-16          | 3888302-16                                             | Canadair CL-RJ                      |
| 36-150 (RR)                                         | 53359-18          | 3888302-18                                             | Fokker 100                          |
|                                                     | 53236-5           | 304269-5                                               |                                     |
| 36-208B                                             | 53179-1           | 3876132-1                                              | Boeing 737-300, 400, 500            |
| 36-300                                              | 53179-8           | 3876132-8                                              | Airbus A320, A321                   |
|                                                     | 50160-7           | 369259-7                                               | Boeing 727-100, 200, Boeing 737-200 |
| 85 Series                                           | 50160-20          | 369259-20                                              | 300, 400, DC 9, 10, 30, 50, MD80    |
| 131-9D                                              | 53368-1           | 3888316-1                                              | MD90                                |
|                                                     | 53109-3           | 3888076-3                                              | Boeing 757, 767                     |
| 331-200,-250                                        | 53109-1, 2        | 388076-1, 2                                            | Airbus A300, A310                   |
|                                                     | 53179-6           | 3876132-6                                              |                                     |
| 331-350C 53179-7                                    | 3876132-7         | Airbus A330, A340                                      |                                     |
|                                                     | 50160-47          | 369259-47                                              | DC10, MD11                          |
| TSCP 700 50160-48                                   | 369259-48         | Airbus A300B                                           |                                     |
| Pratt & Whitney CANADA                              |                   |                                                        |                                     |
| RE100(LJ)                                           | 53359-22          | 3888302-22                                             | LearJet 45/45XR                     |
| ST6L-73                                             | CH53399-08        | 3119834-01                                             | Lockheed L-1011                     |
| PW901A                                              | 50383-L           | 3910351-01                                             | Boeing 747-400                      |
| Sundstrand APIC (Auxiliary Power International)     |                   |                                                        |                                     |
|                                                     | 53267-3           | 179505-3                                               |                                     |
| APS2000                                             | 53267-4           | 179505-4                                               | Boeing 737-300, -400, -500          |
| REPAIR KITS                                         |                   |                                                        |                                     |
| TPE331                                              | 53051             | (Use 52243 Crimp Tool)                                 |                                     |
| TFE731                                              | 53164-3, -4       | (Use 52243 Crimp Tool) (-4 Includes Extension Ferrule) |                                     |
| PW100                                               | 53369             |                                                        |                                     |
| PT6                                                 | 53100-1, 53436    |                                                        |                                     |
| PW305                                               | 53434             |                                                        |                                     |
| UNIVERSAL KIT                                       |                   |                                                        |                                     |
| PT-6 Series, PW100 Series, PW205 Series             | 53057             | (PWC PN 3108407-01)                                    |                                     |
| OPTIONAL TOOLS FOR REPAIR                           |                   |                                                        |                                     |
| Crimp Tool (Ref. Sat-124)                           | 52243             |                                                        |                                     |
| Contact Hook                                        | 52258             |                                                        |                                     |

## NOTES

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\*Type "2" ignition systems require Champion P/N 50383K (PWC P/N 3035333)

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# General Aviation Igniters



## Product Features

### Corrosion Protection

Silver-plated shell for protection against corrosion and seizing.

### Leakage Protection

Dual seals for protection against gas leakage under high temperature conditions.

### Protective Coating

Special coating prevents excessive chafing of shell, extending igniter service life.

### Coated Bushing

Bushing coated to prevent lead sticking, allowing for easier removal and installation.

### Tungsten Contact

Provides increased resistance to arcing with mating lead.

### Positive Insulator Retention

Upper insulator shaped to provide positive component retention.

### Shaped Insulator

Lower insulator shaped to provide positive component retention.

### Patented Iridium Pin Design

Provides maximum resistance to spark erosion and increased service life.



## Design Features

Champion turbine igniters are a product of the Champion Aerospace commitment to the highest standards of quality and technology, a commitment that has made Champion the #1 choice of engine manufacturers, maintenance technicians and pilots around the world.

Champion-engineered safety-retention features are the best in the business and Champion developments in the turbine igniter design include fuel drain slots which keep the igniter from quenching out, air-cooling holes for longer life and engobe semi-conductive materials for quicker, more reliable starts.

**Champion Turbine Igniters cover over 300 different engine designs and are OEM on:**

Allison, Honeywell, General Electric, Pratt & Whitney, Sundstrand/Turbomeca, Teledyne, Textron Lycoming, Williams International, Westinghouse and Rolls-Royce.

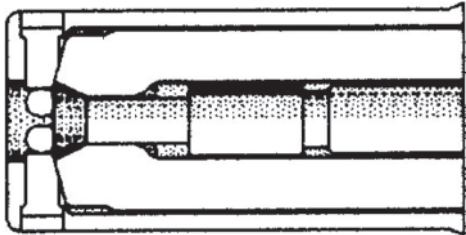
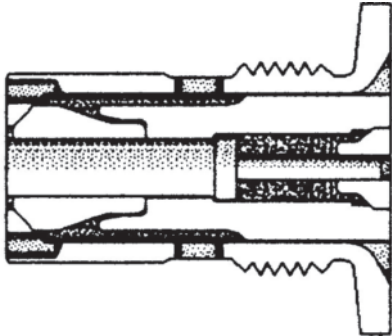
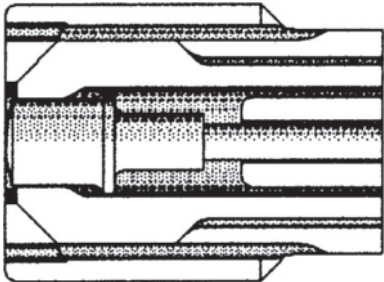
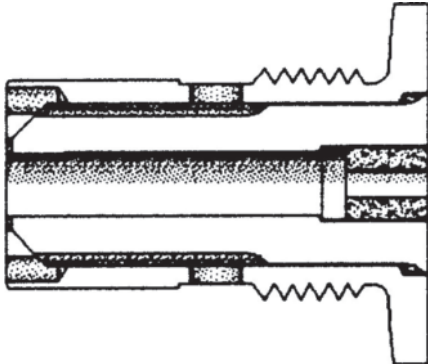
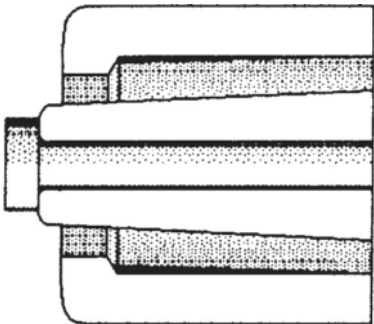
**Turbine Igniters**



# General Aviation Igniters

For airline igniter applications consult Champion Aerospace AV-22 catalog.

Illustrated below are six plug designs by firing end configuration.

| Gap Description                               | Typical Firing End Configuration                                                    | Gap Description                               | Typical Firing End Configuration                                                      |
|-----------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|
| High-Voltage Recessed Surface Gap (Long Life) |    | Low-Voltage Surface Gap (Solid Semiconductor) |    |
| High-Voltage Surface Gap                      |  | Low-Voltage Shunted Surface Gap               |    |
| High-Voltage Air Gap                          |  | Low-Voltage Glow Coil Element                 |  |

## Igniter Replacement Gaskets

|                |                                               |                |                                      |
|----------------|-----------------------------------------------|----------------|--------------------------------------|
| <b>M-677</b>   | FS118-1, FS153-1, CH31547C, CH31615 (6800087) | <b>CH63038</b> | CH31753A, CH31773 (6800848) (nickel) |
| <b>CH63008</b> | FHE205, FHE267-2A (6800148)                   | <b>6800847</b> | CH31753A, CH31773 (cemented)         |
| <b>CH63037</b> | AA138S (6800158) (copper)                     | <b>6800948</b> | CH31772A, CH31785, CH31806           |
| <b>6860337</b> | PT6 & PW100                                   | <b>6860326</b> | JT15D                                |

# General Aviation Igniters



For airline igniter applications consult Champion Aerospace AV-22 catalog.

| (FAA Approved)                                                                                                                                                                                             |                                           |                         | PRIMARY PROPULSION PLANT                                                                                                 |                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Engine Mfr. & Model                                                                                                                                                                                        | Champion Part No.                         | Engine Mfr. Part No.    | Aircraft Make                                                                                                            | Aircraft Model                                                                                                                                                                                                                      |
| <b>ALLISON (Rolls-Royce)</b>                                                                                                                                                                               |                                           |                         |                                                                                                                          |                                                                                                                                                                                                                                     |
| 501-D13, -D13A, D, E, H, -D22                                                                                                                                                                              | FS89-1                                    | 6805734                 | Lockheed                                                                                                                 | Convair 580, Electra, 382 Hercules                                                                                                                                                                                                  |
| 501-D22A, C, G                                                                                                                                                                                             | FS109-1A                                  | 6847727                 | Lockheed                                                                                                                 | L-100 Series Hercules, Convair 580A                                                                                                                                                                                                 |
| 250-B15, -B15A, -B15E, -B15G, -B17<br>-B17B, -B17C, -B17D, -B17E, -C10, -C10A,<br>-C10B, -C10D, -C18, -C18A, -C18B, -C18C,<br>-C20, -C20B, -C20C, -C20F, -C20J,<br>-C20R/1, -C20R/2, -C20R/4, -C20S, -C20W | CH34168<br>or<br>CH34269<br>(long life)   | 6877518<br><br>23006266 | Aerospace Tech<br>of Australia<br>Aerospatiale<br>Agusta<br>Bell<br>Breda<br>Helio<br>Hiller Aviation<br>Hindustan       | Nomad 22B, N24A<br>Twin Star AS355F-1, -2, M2, A5 555 UR - C 1 9 ,<br>109A<br>206B<br>369D<br>H634 Twin<br>RH1100A<br>HTT-34                                                                                                        |
| 250-B15A, -B15E, -B15G, -B17D, -B17E,<br>-B17F, -B17F/1, -B17F/2, -C18, -C18C,<br>-C18, -C18C, -C20J, -C20R, -C20R/1,<br>-C20R/2, -C20R/4, -C20S, -C20W                                                    | YB63-1                                    | 1017565                 | MBB<br>McDonnell Douglas<br>Panstwowe Zaklady<br>Partenavia<br>Pilatus BN<br>Schweizer<br>SIAI Marchetti<br>Soloy (Bell) | B0105, 105CB, 105CBS<br>MD500, 500U, D, E, (MD-88)<br>MI-2<br>AP-68TP-300 Spartacus<br>Turbine Islander<br>330<br>SF260TP, SF600<br>47-Conversion                                                                                   |
| 250-C28, -C28B, -C28C, -C30, -C30G,<br>-C30G2, -C30L, -C30M, -C30P, -C30R,<br>-C30S, -C30R/3M, -C30R/1, -C30R/3, -C30U<br>-C40, -C40B, -C47, -C47B, -C47E, -C47M                                           | CH34187-A<br>or<br>CH34304<br>(long life) | 6899084<br><br>23006267 | Bell<br>MBB<br>Boeing<br>Sikorsky                                                                                        | Long Ranger-206-L1, 206-L3, 214, 222, 407, 430<br>BO-105LS-A3<br>530F, G, N<br>S-76A MKII                                                                                                                                           |
| GMA 2100A, AE2100, -2100A, -2100C,<br>-2100D3, AE3007                                                                                                                                                      | CH31898-1                                 | 23062672                | SAAB<br>Embraer<br>Cessna                                                                                                | 2000, C-130J<br>EMB 135, 140, 145<br>Citation X                                                                                                                                                                                     |
| <b>GENERAL ELECTRIC</b>                                                                                                                                                                                    |                                           |                         |                                                                                                                          |                                                                                                                                                                                                                                     |
| CJ610                                                                                                                                                                                                      | FHE146-7A                                 | 37C311124               | Hansa<br>Gates                                                                                                           | HFB320<br>LearJet 23, 24B, 24D, 25, 25B, 25C, 25D, 25G                                                                                                                                                                              |
| CF700                                                                                                                                                                                                      | FHE146-7A                                 | 37C311124               | Dassault<br>Sabreliner Corp.                                                                                             | Falcon 20, D, E, F<br>Sabreliner 75A                                                                                                                                                                                                |
| CF34-1A                                                                                                                                                                                                    | FHE256-10A                                | 4048T30P06              | Canadair                                                                                                                 | Challenger 601/601-3A                                                                                                                                                                                                               |
| CF34-3A (Before S/N 350336)                                                                                                                                                                                | FHE256-10A                                | 4048T30P06              | Canadair                                                                                                                 | Challenger 601/601-3A                                                                                                                                                                                                               |
| CF34-3A (After S/N 350336)                                                                                                                                                                                 | FHE256-10B                                | 4048T30P07              | Canadair                                                                                                                 | Challenger 601/601-3A                                                                                                                                                                                                               |
| CF34-3A (After S/N 350336)                                                                                                                                                                                 | CH34661                                   | 4048T30P10              | Canadair                                                                                                                 | Challenger 601/601-3A                                                                                                                                                                                                               |
| CF34-3A1, -3A2, -3B                                                                                                                                                                                        | CH31858-1, -2                             |                         | Canadair                                                                                                                 | Challenger 601-3R/604                                                                                                                                                                                                               |
| CF34-3A1, -3B1                                                                                                                                                                                             | CH31858-1, -2                             |                         | Canadair                                                                                                                 | Bombardier CRJ-100/200                                                                                                                                                                                                              |
| CF34-8C1, -8C5                                                                                                                                                                                             | CH31926                                   | 4096T33P07              | Canadair                                                                                                                 | Bombardier CRJ-700-900                                                                                                                                                                                                              |
| CF34-8E                                                                                                                                                                                                    | CH31926                                   |                         | Embraer                                                                                                                  | 170/175                                                                                                                                                                                                                             |
| CF34-10E                                                                                                                                                                                                   | CH31900-6<br>CH31965                      | 1374M13P11              | Embraer                                                                                                                  | 190/195                                                                                                                                                                                                                             |
| CT64-820-4                                                                                                                                                                                                 | FHE111-30                                 | 4026T27P01              |                                                                                                                          |                                                                                                                                                                                                                                     |
| CT7-2A, T700-T2C                                                                                                                                                                                           | CH34158                                   | 4053T22P01              | Westland                                                                                                                 | W30, 200, 300/404                                                                                                                                                                                                                   |
| CT7-2A, CT7-2B, T700-T2C                                                                                                                                                                                   | CH34439                                   | 4053T22P06              | Sikorsky<br>Bell                                                                                                         | 570DC<br>214ST                                                                                                                                                                                                                      |
| CT7-2A, -2D1, -5A, -5A1, -5A2, -5A3, -6,<br>-6A, -7A, -7A1, -8, -9B, -9B1, -9B2, -9C, -9D                                                                                                                  | CH34419                                   | 5044T67P07              | Saab-Fairchild<br>Sikorsky<br>Casa<br>EH Indust.                                                                         | SF340<br>S-92<br>CN235<br>EN101                                                                                                                                                                                                     |
| CT-58-100-2, -110-1, -110-2, -140-1, -140A/L<br>-140-2                                                                                                                                                     | CH34095                                   | 37B200275P102           | AgustaAS-61<br>Kawasaki<br>Mitsubishi                                                                                    | KV-10711/11A<br>SH-3B, S-61A                                                                                                                                                                                                        |
| <b>HONEYWELL (formerly Alliedsignal Engines)</b>                                                                                                                                                           |                                           |                         |                                                                                                                          |                                                                                                                                                                                                                                     |
| TPE331                                                                                                                                                                                                     | CH31547C**                                | 369949-3                | CASA<br>Commander Div.<br>Beech King Air B100<br>British Aerospace<br>Cessna<br>Dornier<br>Fairchild<br>Mitsubishi       | C212-200, -300<br>680T, V, W, 681, 690A, B, 840, 900, 980, 1000<br><br>Jetstream 31<br>Conquest II<br>228-100-200, 101, 201, 212<br>Merlin IIB, IVC, Metro-III, SA-227-AT, AC, TT/41<br>MU2B, D, F, G, J, K, MU2B-40, MU2B-60, MY2S |

\*\*Includes Installation Gaskets.

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# General Aviation Igniters

For airline igniter applications consult Champion Aerospace AV-22 catalog.

| Engine Mfr. & Model                                                                                                                    | (FAA Approved)                                                                                            |                                                  | PRIMARY PROPULSION PLANT                                                                                                                 |                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                        | Champion Part No.                                                                                         | Engine Mfr. Part No.                             | Aircraft Make                                                                                                                            | Aircraft Model                                                                                                                                                                                                                                                                  |
| <b>HONEYWELL (formerly Alliedsignal Engines)</b>                                                                                       |                                                                                                           |                                                  |                                                                                                                                          |                                                                                                                                                                                                                                                                                 |
| TPE331-14, -14A, -14B                                                                                                                  | CH31701A                                                                                                  | 3105547-1                                        | Piper                                                                                                                                    | Cheyenne 400                                                                                                                                                                                                                                                                    |
| TPE331-14 GR/HR                                                                                                                        | Y209-2<br>CH34627-1                                                                                       | 3105893-4<br>3105893-5                           | British Aerospace                                                                                                                        | Jetsream 41                                                                                                                                                                                                                                                                     |
| TFE731-2, -3, -3A, -3B, -3R, -3AB, -3AR, -3B, -4R-2S, -5, -5A, -5R, -5AR                                                               | CH31815-2 (long life)<br>CH31621A                                                                         | 3074541-4<br>3070967-1                           | Cessna<br>Dassault<br>Bombardier<br>British Aerospace                                                                                    | Citation III, Citation VII<br>Falcon 10A, 50, 100, 900, CASA 101<br>Lear Jet 31, 35, 36, 54, 56, LR55-ER, -LR, XLR<br>125-700, 731, 800                                                                                                                                         |
| TFE731, -20, -40, -60                                                                                                                  | CH31815-2                                                                                                 | 3074541-4                                        | Israel Aircraft Ind<br>Lockheed<br>Sabreliner Corp                                                                                       | Westwind 1124, 1124A, Astra 1125<br>Jetstar II, 731<br>Sabreliner 65/65A                                                                                                                                                                                                        |
| ATF3-6, -6A<br>Requires both numbers listed                                                                                            | CH31641 (lower) or<br>CH31642 (upper)<br>CH31767 (lower)<br>(long life)<br>CH31768 (upper)<br>(long life) | 3001430-1<br>3001430-2<br>3003119-1<br>3003119-2 | Dassault                                                                                                                                 | Falcon 200, French Guardian, HU-25A                                                                                                                                                                                                                                             |
| T53-07A, T53-09A, B, C, T53-11A,<br>T53-13B, T53-17A, T53-13A                                                                          | FHE113-10<br>CH34016-1                                                                                    | 1-300-197-03<br>1-300-348-06                     | Bell                                                                                                                                     | 204B, 205<br>205A                                                                                                                                                                                                                                                               |
| LTS-101-600A, -600B, 650A-2, 650A-1, 750A-1                                                                                            | CH34016-1                                                                                                 | 1-300-348-06                                     | Aerospatiale                                                                                                                             | AS350, AS350D Astar, SA-633G1, Dauphin 2                                                                                                                                                                                                                                        |
| LTS-101-650C-2, -650C-3, -650C-3A,<br>600A-2, -650B-1, -600A3, -750B-1, -750C-1                                                        | CH34016-1                                                                                                 | 1-300-348-07                                     | Bell                                                                                                                                     | 214A, 222, 222B, 222U, 222UT                                                                                                                                                                                                                                                    |
| LTP-101-600A-1A<br>-700A-1A                                                                                                            | CH34016-1                                                                                                 | 1-300-348-07                                     | MBB/Kawasaki<br><br>Air Tractor<br>Piaggio                                                                                               | BK-117-A3<br><br>AT-302<br>P166-DL3<br>Page AG-Cat B, Thrush                                                                                                                                                                                                                    |
| ALF-502-L, -L2, -L2A, -L2C, -L3, -R3, -R3A,<br>-R4, -R5, -R6                                                                           | CH34452A                                                                                                  | 2-300-732-05                                     | Canadair<br>British Aerospace                                                                                                            | Challenger CL600<br>BAe 146-100, 200, 300, QT                                                                                                                                                                                                                                   |
| AL-512                                                                                                                                 | CH34135                                                                                                   | 2-300-821-01                                     | Boeing Vertol                                                                                                                            | Chinook 234, 234ER, 234LR, 234MLR, 234U                                                                                                                                                                                                                                         |
| LF507-1F, -1H                                                                                                                          | CH34452A                                                                                                  | 2-300-732-05                                     | Fadec equipped                                                                                                                           | AVRO-RJ Series                                                                                                                                                                                                                                                                  |
| HTF7000 (formerly AS907)                                                                                                               | CH34826-6*                                                                                                | 3038110-6                                        | Bombardier                                                                                                                               | Challenger 300                                                                                                                                                                                                                                                                  |
| <b>PRATT &amp; WHITNEY</b>                                                                                                             |                                                                                                           |                                                  |                                                                                                                                          |                                                                                                                                                                                                                                                                                 |
| JT12A, -4, -5A, -6, -6A, -8<br>J60-P-5B                                                                                                | FHE151 or<br>AA33S, A, D                                                                                  | 424815<br>424848-E                               | Lockheed<br>Sabreliner Corp.                                                                                                             | Jetstar<br>Sabreliner 40, 60                                                                                                                                                                                                                                                    |
| JTFD12A                                                                                                                                | FHE151                                                                                                    | 424815                                           | Sikorsky                                                                                                                                 | CH54A, S-64E, -F, Skycrane                                                                                                                                                                                                                                                      |
| <b>PRATT &amp; WHITNEY CANADA, INC.</b>                                                                                                |                                                                                                           |                                                  |                                                                                                                                          |                                                                                                                                                                                                                                                                                 |
| (Glow Plug Ignition)                                                                                                                   |                                                                                                           |                                                  |                                                                                                                                          |                                                                                                                                                                                                                                                                                 |
| PT6A-6, -6A, -B, -11, -11AG-20, -15AG-20A,<br>-20B, -21, -25, -25A, -27, -28, -28A, -29, -34,<br>-34B, -36, -110                       | AGF2-6                                                                                                    | 3014054                                          | Beech<br><br>DeHavilland                                                                                                                 | KingAir Commuter 90, A90, B90, C90, E90, 99<br>& 100, A100<br>Turbo Beaver, Twin Otter                                                                                                                                                                                          |
| PT6A-29, -34B, -AG, -36, -38, -40, -41, -41AG,<br>-42, -45A/B/R, -50, -60A, -61A, -65B/R/AG/AR,<br>-110, -112, -114, -116, -121, -135A | CH34055 or<br>CH34406                                                                                     | 3035102<br>3035882                               | Aerospatiale<br><br>Agusta-Bell<br>Airtractor, Inc.<br>AVTEK<br>Ayers<br>Beech<br><br>Bell<br>Cessna<br>DeHavilland<br>Domier<br>Embraer | TBM 700<br><br>AB-212, AB-412<br>AT-400, AT-400A, AT-402, AT-502, AT-503<br>400<br>Turbo Thrush S2R-T<br>C-90, King Air-200, F90A, 1900, 300, 350,<br><br>212, 412<br>Conquest 1, Caravan I, II<br>Dash 7<br>DO-128-6, DO-24-TT, Seastar<br>Bandeirante, Xingu, Appjost, Tucano |
| PT6B-9, -35F, -36A, -36B                                                                                                               |                                                                                                           |                                                  |                                                                                                                                          |                                                                                                                                                                                                                                                                                 |
| PT6C-67A, 67C                                                                                                                          | CH34758-2                                                                                                 | 3050627-03                                       | Frakes                                                                                                                                   | Mohawk 298, Turbo-Cat S2-R, AB139                                                                                                                                                                                                                                               |

\* FAA-PMA Pending

\*\* Includes Installation Gaskets

# General Aviation Igniters



For airline igniter applications consult Champion Aerospace AV-22 catalog.

| (FAA Approved)                                                                                          |                                                                | PRIMARY PROPULSION PLANT                |                                                                                            |                                                                                                                           |
|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Engine Mfr. & Model                                                                                     | Champion Part No.                                              | Engine Mfr. Part No.                    | Aircraft Make                                                                              | Aircraft Model                                                                                                            |
| <b>PRATT &amp; WHITNEY CANADA, INC. (Cont'd)</b>                                                        |                                                                |                                         |                                                                                            |                                                                                                                           |
| PT6T-3, -3A, -3B, -3BE, -3D, -3DE, -3DF<br>PT6A, PT6B, PT6T Series (Spark Ignition)                     | CH34406 or<br>CH34055                                          | 3035882<br>3035102<br>(IC 3032096)      | Bell<br>Piaggio<br>Pilatus<br>Piper<br>Short Bros<br>Sikorsky<br>Westland                  | 212, 412<br>Avanti, P180<br>PC-6, -7, -12<br>Cheyenne, I, II, III, IIIA, IIXL, TIO40<br>SD-330, 360<br>S58T, S76B<br>Lynx |
| PW100, -115, -118, -119B, -120, -120A, -121, -123/B/C/E, 123AF, -124/A/B, -125B, -126, -126A, -127E     | CH34817<br>CH34055<br>or<br>CH34406                            | 3055161-01<br>3035102<br><br>3035882    | Aerospatiale/Aeritalia<br>British Aerospace<br>DeHavilland<br>Dornier<br>Embraer<br>Fokker | ATR-42, 72<br>ATP<br>DASH 8<br>328<br>EMB 120, 121, Caraja<br>50                                                          |
| PW150, A                                                                                                | CH31918-2<br>CH31955-1                                         | 3122415-03<br>3056557-02                | DeHavilland                                                                                | Dash 8/400                                                                                                                |
| PW206 A                                                                                                 | CH34643-1                                                      | 3120953-01                              | Eurocopter                                                                                 | EC135                                                                                                                     |
| PW206A, B, B2, C, E                                                                                     | CH34723                                                        | 3120880-01                              | McDonnell Douglas                                                                          | MD900, A109E, B0108, EC135                                                                                                |
| PW305A, 305B, 306A, 306B, 306C                                                                          | CH34682**                                                      | 31B5168-01<br>31B5268-01                | British Aerospace<br>Lear                                                                  | BAe 1000, Cessna Sovereign, 328 Jet<br>G200                                                                               |
| PW307                                                                                                   | CH31958-3                                                      | 30P0606-03                              | Dassault                                                                                   | Falcon 7X                                                                                                                 |
| PW308A, C                                                                                               | CH31929-4                                                      | 30C1356-04                              | Raytheon, Dassault                                                                         | Hawker Horizon, Falcon 2000EX                                                                                             |
| PW500 Series                                                                                            | CH34804-3                                                      | 9058600-1                               | Cessna                                                                                     | Bravo, Encore, Excel                                                                                                      |
| JT15D, -1, -1A, -1B, -41, -4B, -4C, -4D, -5, -5A, -5B, -5C, -5D, -5F                                    | CH34668-1 (T5)<br>CH34659-3 (T5)<br>Long Life<br>FHE246-4 (T3) | 3117463-01<br>3119400-01<br><br>3039828 | Aerospatiale<br>Cessna<br>Beech<br>SIAI-Marchetti                                          | Corvette SN601<br>Citation I, II, SII, 5 Ultra<br>MU-300 Diamond I, IA, II, Beechjet 400<br>S211                          |
| <b>ROLLS ROYCE</b>                                                                                      |                                                                |                                         |                                                                                            |                                                                                                                           |
| BR700, 710A1-10, 710A2-20                                                                               | Y242-5                                                         | Y242-5                                  | Gulfstream                                                                                 | GV, Canadiar Global Express                                                                                               |
| BR710                                                                                                   | Y242-5                                                         | Y242-5                                  | Bombardier                                                                                 | Global Express                                                                                                            |
| BR715                                                                                                   | CH34760-1                                                      | CH34760-1                               |                                                                                            |                                                                                                                           |
| Dart                                                                                                    | FHE19-6L                                                       | CR104-2                                 | Convair<br>Fokker, Fairchild<br>Gulfstream<br>NAMC                                         | 600, 640<br>F27, FH227<br>Gulfstream I, Albatross<br>YS-11                                                                |
| R-R Snecma M45H-Mark 501                                                                                | CH34126                                                        | CBS113-1, 2                             | Fokker                                                                                     | VFW614                                                                                                                    |
| Spey RB168, RB183, 506-14, -14A, -14C, -14D, 511-14, -14W, -8, 511-8/Model 2970, 555-15/H               | FHE164E<br>YW90                                                | CR114-2<br>L912017                      | Gulfstream<br>British Aerospace<br>Fokker                                                  | GII, III<br>111<br>F28                                                                                                    |
| Bristol Siddeley-Viper<br>500 Series, MK521, 522, 526<br>R.R. Viper                                     | FHE205B                                                        | CBS116                                  | Beech<br>Hawker Siddeley<br>Piaggio                                                        | BH-125<br>HS-125<br>PD-808                                                                                                |
| Bristol Siddeley-Viper<br>600 Series, MK601-22, R.R. Viper<br>TAY 611-8, 611-8C, 620-15, 650-14, 650-15 | FHE267-2A**<br>Y183-5                                          | CBS111-2<br>L912019                     | Hawker Siddeley<br>Gulfstream<br>Fokker                                                    | HS125-600<br>GIV, GIV-SP<br>F100, F70                                                                                     |
| TAY 650-14, 650-15, 651-54<br>Incorporating modification 72-1302                                        | Y183-6                                                         | L912023                                 | Folker                                                                                     | F100                                                                                                                      |
| <b>TURBOMECA</b>                                                                                        |                                                                |                                         |                                                                                            |                                                                                                                           |
| Arriel 1A, -1A1, -1A2, -1B, -1C, -1C1, -1C2, -1D -1D1, 1E2, -1K, -1K1, 1S, -1S1, 2C1, 2C2               | CH34745                                                        | 9550175400                              | Agusta<br>Eurocopter<br>Sikorsky                                                           | 109K<br>Astar, AS350, BK117, EC145, EC155<br>S-76                                                                         |
| Arriel 1A, -1A1, -1A2, -1B, -1D, -1D1, 1S, -1S1, -2B, 2C                                                | CH34595                                                        | 9550168770                              | Eurocopter                                                                                 | AS350, AS365NE, EC120, EC130, EC135                                                                                       |
| Arrius 2F, 2B, 2B1, -2B2                                                                                | CH34593                                                        | 9550166660                              | Eurocopter                                                                                 | EC-120                                                                                                                    |
| <b>WALTER</b>                                                                                           |                                                                |                                         |                                                                                            |                                                                                                                           |
| M601E-11, M601F                                                                                         | CH34630                                                        |                                         |                                                                                            | Let L-420, PZL-106 BT                                                                                                     |
| <b>WILLIAMS INTERNATIONAL/ROLLS-ROYCE</b>                                                               |                                                                |                                         |                                                                                            |                                                                                                                           |
| FJ44-1A, -2A, -2C                                                                                       | CH31956                                                        | 68032                                   | Cessna<br>Raytheon<br>Swearingen                                                           | Citation Jet, CJ1, CJ2, CJ3, CJ4<br>Premier I<br>SJ30                                                                     |
| FJ33                                                                                                    | CH34812-2                                                      | 67906                                   | Adam Aircraft                                                                              | A700                                                                                                                      |

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[illegible]

**48 Contact your preferred distributor for Champion factory FAA certified Igniter inspection program.**

# General Aviation APU Igniters



For airline igniter applications consult Champion Aerospace AV-22 catalog.

| (FAA Approved)                                |                                                                            | AUXILIARY AIRBORNE TURBINE UNIT                              |                                                                                                                             |                                                                                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Engine Mfr. & Model                           | Champion Part No.                                                          | Engine Mfr. Part No.                                         | Aircraft Make                                                                                                               | Aircraft Model                                                                                                         |
| HONEYWELL (Cont.)                             |                                                                            |                                                              |                                                                                                                             |                                                                                                                        |
| 36-4A<br>36-6<br>36-16/-16A<br>36-28<br>36-50 | CH31615**<br>FHE159-6                                                      | 369964-5<br>3888002-1                                        | Fokker<br>Grumman<br>NAMC<br>Fokker<br>Fokker                                                                               | F28<br>GII<br>YS-11<br>VFW614<br>F28                                                                                   |
| 36-100 (E), (M)                               | CH34249 or<br>CH34492 or<br>CH31713<br>CH34553<br>CH34585                  | 3888096-1<br>3888096-2<br>369964-6<br>3888096-3<br>3888096-4 | Dassault<br>Canadair<br>Fokker<br>Hawker Siddeley<br>DeHavilland<br>British Aerospace<br>Canadair                           | Falcon 50, Falcon 20G<br>CL-600, 601, 604<br>F28<br>HS125-700<br>DHC-5<br>BAe146-100/200<br>CL-RJ, CRJ200              |
| 36-150RJ<br>36-150 Series<br>(Except-F2M)     | CH34549<br><br>CH34313                                                     | 304634-2<br><br>3888002-2<br><br>Fokker<br><br>IAI           | Embraer<br>British Aerospace<br>Aeritalia Aerospaziale<br>Dassault<br>Cessna<br><br>Dornier<br>AstrA 1125<br>Saab-Fairchild | EMB-120<br>BAe/AERO 146-300, 125-800/1000<br>ATR-42<br>Falcon 900, 20-5<br>Citation III, X<br>100<br>DO-328<br><br>340 |
| 36-150 (RJ) (RR)                              | CH34549                                                                    | 304634-2                                                     | Bombardier<br>Fokker                                                                                                        | CL601, RJ100, 200, Falcon 2000, 2000EX,<br>Fokker-100, 100                                                             |
| 36-150 F2M                                    | CH34706                                                                    | 3888002-5                                                    | Falcon                                                                                                                      | 2000                                                                                                                   |
| RE220 (RJ)                                    | CH31930                                                                    | WB3888446-1                                                  | Bombardier                                                                                                                  | Global Express, CRJ 700, 900                                                                                           |
| RE220 (GV)                                    | CH34730 (Series 21)                                                        | WB3888401-1                                                  | Gulfstream                                                                                                                  | GV                                                                                                                     |
| RE100 (LJ)                                    | CH34549                                                                    | 304634-2                                                     | Learjet                                                                                                                     | Learjet 45/45XR                                                                                                        |
| TURBINE ENGINE APPLICATIONS (GPU)             |                                                                            |                                                              |                                                                                                                             |                                                                                                                        |
| Engine Mfr. & Model                           | Champion Part No.                                                          | Engine Mfr. Part No.                                         | Applications                                                                                                                |                                                                                                                        |
| ALLIEDSIGNAL AUXILIARY POWER (ASAP)           |                                                                            |                                                              |                                                                                                                             |                                                                                                                        |
| 85-90<br>85-91<br>85-291<br>85-184            | FS47-11 (HV) or<br>FHE118 (LV), (-1B)<br>CH31723 or<br>CH31824 (long life) | 75153<br><br>373399 or 369162<br>3888210-1                   | Various Ground Power Equipment Manufacturers<br><br>Various Ground Power Equipment Manufacturers                            |                                                                                                                        |
| PRATT & WHITNEY CANADA, INC.                  |                                                                            |                                                              |                                                                                                                             |                                                                                                                        |
| ST6L-77                                       | CH34055                                                                    | 3035102                                                      | AIRCO                                                                                                                       |                                                                                                                        |

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## NOTES



## NOTES

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| CT-494                   | Igniter Erosion Gauge                  | 55   |
| No. 52243                | Crimping Tool                          | 54   |
| CT-446                   | Spark Plug Tray                        | 54   |
| CT-923                   | Oil Filter Can Cutter                  | 55   |
| CT-924                   | Can Holder                             | 55   |
| CT-925                   | Media Cutter                           | 55   |
| CT-492                   | Igniter Erosion Gauge                  | 55   |
| CT-498                   | Igniter Erosion Gauge                  | 55   |
| No. 91893                | Abrasive Compound                      | 55   |

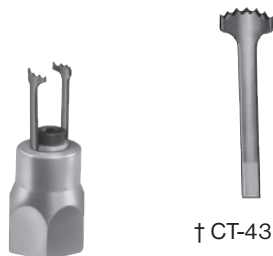
\*Pending Approval



# Service Tools & Equipment

## Model 2600A

### Spark Plug Vibrator Cleaner



† CT-435A Assembly  
Fine Wire and Two Prong

The Champion vibrator cleaner has been designed to clean fine-wire or massive-electrode spark plugs that accumulate heavy lead compound deposits. Such deposits are virtually impossible to remove with standard abrasive cleaners.

- Quick-change cleaning head assemblies
- Easy replacement of single cutter blades
- Powerful vibrator drive unit for reliability and long life
- Flexible rubber mounting for portable or permanent bench installation

#### Specifications

Size: 5 1/4" x 4 1/4" x 7 1/2"  
(13.4 x 10.8 x 18.7 cm.)

Shipping Wt: 7 lbs. (3.2 kg)  
(incl. accessories)

Carton Size: 8" x 8" x 8"  
(20.0 x 20.0 x 20.0 cm.)

Electrical Requirements: 110 V 60 Hz

#### ACCESSORY PARTS LIST

| Qty.     | Description                | Champion P/N |
|----------|----------------------------|--------------|
| 1 ea.    | Vibrator Drive Unit        |              |
| 1 ea. †  | Single Head Assembly A     | CT-435A      |
| 10 ea. † | Full Cutter Blades (1 pkg) | CT-435F      |
| 1 ea. †  | 9/64 Allen Wrench          |              |

† Parts standard with Model 2600A.

#### REPLACEMENT PARTS LIST

| Part No. | Description            |
|----------|------------------------|
| 2600-4   | Switch                 |
| 2600-6   | Adjustment Stud        |
| 2600-7   | 5/16" - 18 Stop Nut    |
| 2600-10  | Vibrator Damper        |
| 2600-11  | Vibrator Unit          |
| 2600-19  | #8-32 X 1/4" Set Screw |

Contact Champion for parts other than those listed.

## Model CT-475AV

### Spark Plug Service Unit



#### Cleaner & Tester

**For Cleaning:** Two flexible rubber adapters handle 14 and 18mm plug types.

#### Specifications

Size: 11 1/2" x 16 3/8" x 12 1/8" (29.2 x 41.5 x 30.7 cm)

Shipping Weight: 15 lbs. (6.80 kg)

Color: Grey, Red, Black

Compressed Air Required: 125 - 180psi (8.9 - 12.8 kg/cm<sup>2</sup>)

Electrical Requirements: 115V

Carton Size: 12 1/2" x 13" x 17 1/2" (31.8 x 33.0 x 44.5 cm)

**Note:** Use 91893 abrasive charge only. (See Replacement Parts List.)  
Model 800 Cleaners, use two (2) charges.

**For Testing:** Steel adapters of 14 and 18 mm are standard equipment and conveniently stored on top of cleaner for ready availability. Molded of rugged A. B. S. plastic which is durable, oil resistant and easy to clean. An aluminum-base frame is included, which permits easy mounting to a work bench and quick removal.

The solid state ignition system produces a stable ignition test voltage providing greater accuracy and reliability. Its lack of moving parts eliminates the major cause of tester failures.

Cleaning is by a dry-abrasive air blast, which quickly and effectively removes conductive deposits.

All compressed air for both cleaning and testing passes through a "built-in" automatic water trap to stop harmful air line moisture.

#### REPLACEMENT PARTS LIST

| Description                                | Part No.      |
|--------------------------------------------|---------------|
| Water Trap .....                           | 91010         |
| Airline Section L2 .....                   | 91053         |
| Steel Adapter 18mm .....                   | 91096         |
| Airline Section L5 .....                   | 91138         |
| Mirror .....                               | 91836         |
| Rubber Adapter 14mm .....                  | 91657 (5-502) |
| Abrasive Charge .....                      | 91893(533)    |
| Steel Adapter 14mm .....                   | 91299         |
| Airline Section L3 .....                   | 92048         |
| Rubber Adapter 18mm .....                  | 92203 (5-503) |
| Ignition System Retro Fit Kit .....        | 91817         |
| Red and Black Knob Kit .....               | 92401         |
| Adapter Hold Down Cap .....                | 92463         |
| Switch-Push Button .....                   | 92487         |
| Valve Stem, Knob & 'O' Ring .....          | 92548         |
| Cleaner Valve Assembly .....               | 92746         |
| Water Trap Bowl Kit .....                  | 92784 (L300)  |
| Cleaner Bag/Manifold Assembly .....        | 93095         |
| Airline Section L1 .....                   | 93250         |
| Steel Nozzle Jet .....                     | 93274 (5-512) |
| Compression Chamber Assembly .....         | 93330         |
| Elect. Control Module/Switch & Leads ..... | 93415         |
| Cleaner & Bag (CT-475 Only) .....          | 93453         |
| Coil (CT-475 Only) .....                   | 93519         |
| Rubber Nozzle Tip .....                    | 94023 (622)   |
| Hinge and Spring Kit .....                 | 94245         |
| Air Inlet Nipple/Mounting Nut .....        | 94283         |
| Airline Section L4 .....                   | 94306         |
| Abrasive Shield .....                      | 94486         |
| Compression Gauge .....                    | 94523         |
| Shielding Barrel Contactor .....           | 94783 (8-683) |
| Cleaner Bag Model 800, 2400 .....          | 8-813         |

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# Service Tools & Equipment



| CT-906                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CT-907                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No. 91893                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Plug Master Flex-Handle Ratchet Wrench (Formerly CT-405)</p> <p>Especially designed to make spark plug removal and installation easier and faster. Flex-handle allows 30° angle travel in either direction. Extra fine reversible ratchet action requires only 6° travel for next bit. Popular 3/8" (0.95 cm) square drive fits Model CT-907 and other standard sockets. Knurled handle, rust-resistant chrome finish.</p> <p><u>Approximate Length:</u> 11" (27.9 cm) long</p> <p><u>Weight:</u> 12 oz. (340 g) Packed individually.</p> | <p>Magnetic Spark Plug Socket (Formerly CT-430)</p> <p>A companion tool to the champion plug-master and other 3/8" (0.95 cm) square drive wrench handles. Especially designed for shielded aviation spark plugs. Built-in permanent Alnico magnet holds plugs firmly, practically eliminating dropped plugs.</p> <p><u>Finish:</u> Crome</p> <p><u>Length:</u> 3-1/2" (8.9 cm)<br/>1/2" (0.95 cm) square drive<br/>7/8" (2.2 cm) deep hex.</p> <p><u>Weight:</u> 8-1/2" oz. (241 g) Packed individually.</p> | <p>Abrasive Compound</p> <p>No. 91893 abrasive compound replaces #533 abrasive in all Champion spark plug cleaner units. Cleaners formerly using the #533 abrasive will require two bags of 91893 to fully charge the unit.</p> <p>The chart below should be followed when replacing abrasive:</p> <ol style="list-style-type: none"> <li>1. Use two bags of 91893 abrasive to fully charge Champion 2400, 800H, 800E and 700 cleaners.</li> <li>2. Use one bag of 91893 to fully charge the CT475AV cleaner/tester.</li> </ol> <p>#622 Teflon nozzle tip sold separately.</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CT-913A, B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CT-911 & CT-912                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No. 2612                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>LeadMaster Wrenches</p> <p>Lead-Master wrenches reduce time to remove and install spark plug ignition leads, also permits short arc turning due to 12-point grip head.</p> <p><u>Shipping Weight:</u> 9 oz. (280 g)</p>                                                                                                                                                                                                                                                                                                                   | <p>T-Handle Wrenches</p> <p>CT-911 Special 3/4" (1.9 cm) open box wrench.</p> <p><u>Shipping Weight:</u> 4 oz. (112 g)</p> <p>CT-912 Special 7/8" (2.2 cm) open box wrench.</p> <p><u>Shipping Weight:</u> 4 oz. (112 g)</p>                                                                                                                                                                                                                                                                                 | <p>Spark Plug Thread Lubricant</p> <p>A high-temperature, graphited lubricant for application to spark plug installation threads to prevent galling and seizure. Sturdy plastic 4 fl. oz. bottle with brush attached to cap.</p> <p><u>Size:</u> 5-5/8" x 7-1/4" x 5-1/4"<br/>(14.4 x 18.4 x 13.3 cm)</p> <p><u>Shipping Weight:</u> 4 lbs. (1.814 kg)</p>                                                                                                                                                                                                                     |

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# Service Tools & Equipment



## CT-496

### Igniter Lead Connector Wear Gauge

Igniter lead connector wear gauge for ARP670 type 2M fittings common to PT6 leads and others. Features a calibrated pin to measure connector wear. Opposite end sized to measure neoprene grommet expansion.

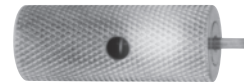


## CT-709

### Oil Filter Wrench

Designed for easy removal of Cessna oil filter adapters from 150 Series thru 300 Series aircraft. Manufactured from tool quality steel, features both 3/8" and 1/2" drives, as well as "flip over" reversability.

Shipping Weight: 11 oz. (311 g)



## CT-497

### Igniter Lead Wear Gauge

Igniter lead connector wear gauge for ARP670 Type 3M fittings common to TPE6331, TFE731 leads and others. Features a spring weighted pin for an accurate "pull test" of connectors.

Size: 15/16" (3.33 cm)

Shipping Weight: 11 oz. (311 g)

Carton Size: 3-1/2" x 1-1/4" x 1-1/4"  
(8.89 x 3.18 x 3.18 cm)

**Note:** Many leads incorporate type 2M & 3M connectors at opposite ends. Both CT-496 & CT-497 gauges are recommended.



## CT-449

### Thread Clean-Out Tool

For cleaning aircraft engine spark plug 18 mm bushings to assure correct installation of new or overhauled spark plugs. Regular 7/8" (2.22 cm) hex fits spark plug sockets. Precision ground threads, three deep flutes retain carbon debris.

Approximate Length: 4" (10.1 cm) long

Weight: 7 oz. (198 g) Packed individually.



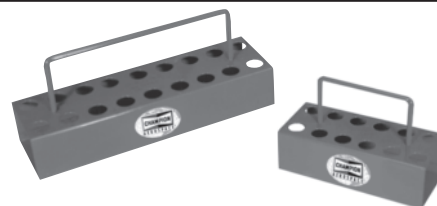
## CT-415AV

### Gap Setting Tool w/ 7/8" Thread Adapter w/ CT-466

A low-cost efficient gap setting tool for closing gaps on massive electrode-type aviation spark plugs. Designed for use as a hand tool, for mounting on a bench, or to be held in a vise. Complete with one adapter for 18mm massive plugs (Part No. GT-204) and one CT-450 gap gauge. Also includes GT-208 adapter for regapping REM37BY plugs.

Size: 7-1/2" (19.5 cm) High

Weight: 1-1/2 lbs. (0.68 kg)  
Packed individually.



## CT-446 & CT-446-18

### Spark Plug Tray

Sturdy steel tray holds up to 12 or 18 aviation spark plugs. Speeds handling of used or new plugs. Holes numbered to correspond with engine cylinders. Protects against shielding barrel contamination. Flat rubber, non-slip pads.

Approx. Length: 5" x 8" x 3-1/2"  
(12.7 x 20.3 x 8.9 cm)

Weight: 7 oz. (198 g) Packed individually.



## CT-450

### Retractable Gap Gauge

High impact red plastic case contains 4 sets of accurate retractable go and no go wire gauges:

2 sets: .015 - .019 (.016 Nom)  
(0.40 - 0.50 mm)

2 sets: .018 - .022 (.019 Nom)  
(0.45 - 0.55 mm)

Size: 3-1/2" (8.9 cm) long

Weight: 1-1/4 oz. (35 g)

**Replacement package of 4 wire gauge sets complete as described above. Order Part No. CT-450-WG.**



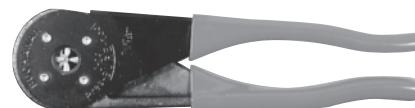
## CT-457

### Fine Wire Gap Setting Tool

Designed exclusively for adjusting fine wire electrode spark plug gaps. Slot fits iridium ground electrodes for quick, safe adjustment.

Size: 2-1/4" x 2" x 1/4" (5.7 x 5.0 x 0.63 cm)

Weight: 1/2 oz. (14 g) Packed individually.



## No. 52243

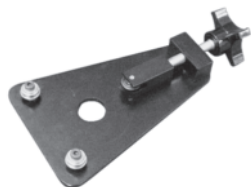
### Crimping Tool

A special tool used to crimp turbine ignition lead contacts to the unshield center wire.

Shipping Weight: 14.4 oz. (408 g)

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# Service Tools & Equipment



## CT-923

### Can Cutter

The new improved CT923 Cutter allows for oil filters to be cut in either direction. This is a complete tool with no parts or adapters to change. It is very easy to use, and will provide a simple effective means of cutting open oil filters. The cutter blades in the CT923 are the same blades that are used in the CT470. Also cuts the Champion RBC308 filter used on the Rotax 912 and 914 engines.

**NOTE:** CT-923-4 Cutter Blade

## CT-921

### Oil Filter Torque Wrench



The CT-921 can be used for oil filter installation and removal. It is calibrated to 17 foot pounds, the recommended torque. Can easily be recalibrated when necessary.  
1" Hex.



## CT-494

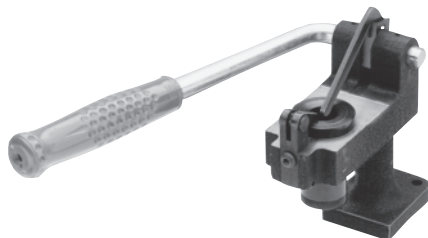
### Igniter Erosion Gauge

The CT-494 accurately determines wear on 10 of our most popular surface gap igniters. Insuring maximum igniter life without exceeding safe wear limitations. For use with following igniters:

CH31547, CH31621, CH34055, CH34168, CH34187, CH34269, CH34304, CH34406, FHE146-7 and FHE246-4

Heavy duty protective sleeve included.

Shipping Weight: 1 oz. (28 g)



## CT-2500A

### Gap Setting Tool

Complete with accessories and gauges listed below, instructions for use. Packed individually, partially assembled.

**Size:** 6" x 5 1/2" x 6" (15.2 x 13.9 x 15.2 cm)

**Handle Size:** 9 1/2" (24.1 cm) long

**Shipping weight:** 5 1/2 lbs. (2.49 kg)

A precision gap-setting tool for all massive-electrode Champion spark plugs. Permits simultaneous adjustment of two opposite prongs without removing the spacing gauge. Designed for permanent installation on bench or heavy wooden board.

### Replacement Parts For 2500A Gap Setting Tool:

|           |                                                |
|-----------|------------------------------------------------|
| CT-458-2  | Lever                                          |
| CT-458-3  | Toggle Link                                    |
| CT-458-4  | ToggleArm ( <i>Long Top Arm</i> )              |
| CT-458-5  | Toggle Pin                                     |
| CT-458-6  | Stationary Finger                              |
| CT-458-7  | Stationary Finger Support                      |
| CT-458-10 | Upper Collet Bushing                           |
| CT-458-11 | Centering Bushing                              |
| CT-458-12 | Collet Adjustment Bushing                      |
| CT-458-13 | Spring Pin                                     |
| CT-458-15 | Finger Pin                                     |
| GT-1-17L  | Spacing Gauge .015"<br>(0.15-.019/0.40-0.50mm) |
| GT-1-17J  | Spacing Gauge .018"<br>(0.36 - 0.46mm)         |
| GT-1-27   | Spacing Gauge Handle Assembly                  |

**Note:** Parts not listed are either standard or not normally required.

### Accessories Packaged in Model 2500A Gap Setting Tool:

|         |          |                                                |
|---------|----------|------------------------------------------------|
| 10 Qty. | GT-1-17L | Spacing Gauge<br>.015 - .019" (0.40 - 0.50 mm) |
| 1 Qty.  | GT-1-27  | Spacing Gauge Handle Assembly.                 |

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# Service Tools & Equipment

## Current/Discontinued Aviation Spark Plugs

| SIZE               | CURRENT PLUG TYPES                                                                                         | DISCONTINUED PLUG TYPES                                                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18mm 1/2" Reach:   | M40J*<br>M41E<br>REM40E<br>REM38E<br>REM38S<br>RHM40E<br>RHM40E<br>RHM38E<br>RHM38S                        | AY4<br>M42E, M41N, D41N, C27, C26<br>EM41E, EM42E, ED41N, C27S, C26S, REM39N, RED39N, RC26S<br>REM37N, RED37N, R25S<br>REM38P, REM38W<br>HM41E<br>RHM39N, RHD39N<br>RHM37N, RHD37N<br>RHM38P, RHM38W                                                                                                                                             |
| 18mm 13/16" Reach: | REB37E<br>REB36S<br>REB32E<br>-<br>RHB37E<br>-<br>RHB32E<br>RHB29E<br>RHB36S<br>RHB32S<br>RHB27S<br>RHB27S | REB37N, REA37N, R37S-1, RC35S, C35S,<br>REB87N, REA87N, REB36W, R819, HO14S<br>REB32N, REA32N, R56S, RC34S, C34S<br>REB29N, REA29N, R33S<br>RHB38E, RHB37N, RHA37E, RHA37N,<br>RHB87N, RHA87N, R119, R115<br>RHB32N, RHB33E, RHA32E, RHA32N, R111<br>RHB29N, RHA29E, RHA29N, R103<br>R214D, RHB36P, RHB36W<br>RHB32P, RHB32W<br>RHB27P<br>RHB27W |
| 18mm 1-1/8" Reach: | RHU32E<br>RHU27E<br>RHU32S                                                                                 | RHU37E<br>RHU30P, RHU30W                                                                                                                                                                                                                                                                                                                         |
| 14mm 3/8" Reach:   | REJ38<br>NON-SHIELDED<br>UNAVAILABLE                                                                       | C10S4, 78S<br>J43, AJ66                                                                                                                                                                                                                                                                                                                          |
| 14mm 1/2" Reach:   | RHL27SA*<br>RHL28SA*<br>REL37B<br>NON-SHIELDED<br>UNAVAILABLE<br>EL602YC                                   | HL26P/HL601P*<br>HL31P/HL602P*<br>REL37W, REL38B<br><br>L34R, AJ10<br>EL601Y                                                                                                                                                                                                                                                                     |
| 14mm 3/4" Reach:   | REN30S                                                                                                     |                                                                                                                                                                                                                                                                                                                                                  |

## NOTES

# Over Pressurized Lube Oil Filters

Have you ever had a filter that appears to be “BLOWN UP”? Looks like a balloon or the gasket is protruding from the base of the filter? Often the deformed filter is the only sign that a problem existed in the lube oil system.

The first thing you want to blame is the filter. However, if the pressure was sufficient to blow out the gasket or unroll the lockseam, the pilot may have experienced immediate and costly problems. This should be considered a non- airworthy condition.

A look at how a lube oil system functions will show that the oil pump creates oil pressure. A pressure-regulating valve controls the upper limit of this pressure, which is usually an integral part of the pump.

Figure 1 is a simplified diagram of the lube oil system showing the pump, regulating valve, filter and bearings.

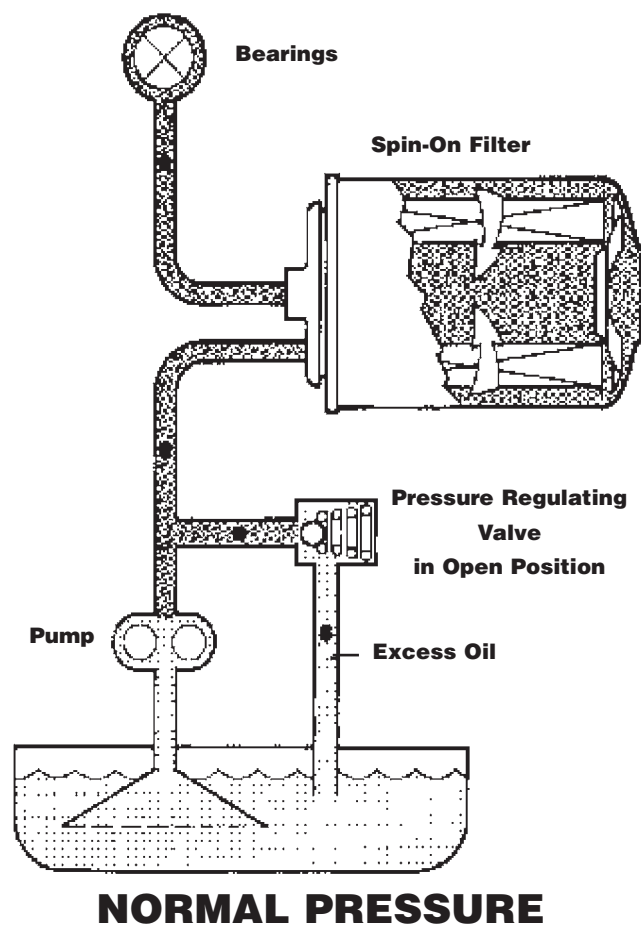


FIG. 1

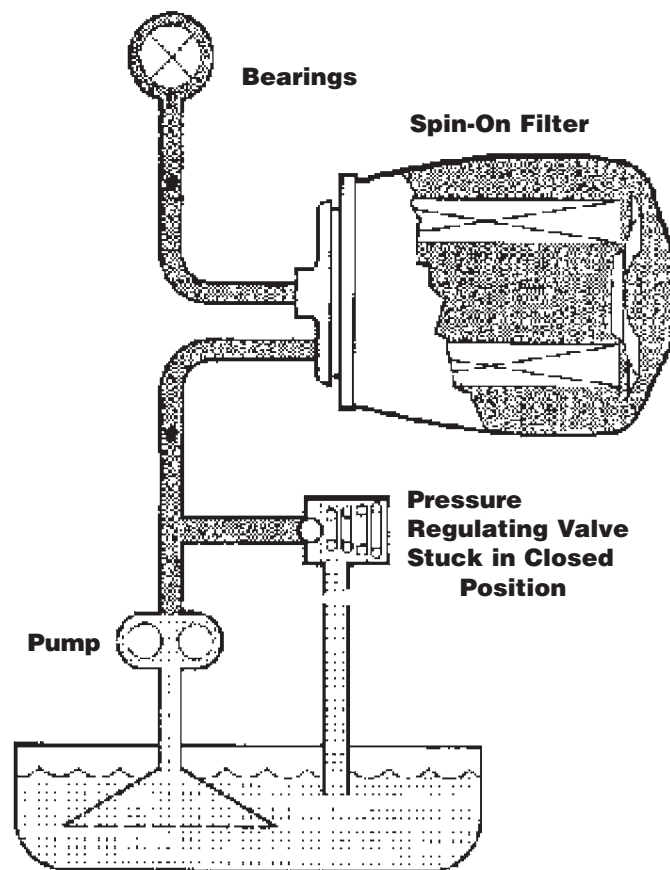
The oil pump supplies sufficient flow to lubricate the bearings and other moving parts of the engine. This oil must be under pressure if it is to properly separate the highly loaded parts of an engine and prevent excessive wear. The purpose of the regulating valve is to provide a constant pressure for the system.

*Continue On next page...*

The regulating valve consists of a ball or plunger, which regulates pressure with the aid of a spring. The spring is calibrated so that the plunger will lift off its seat when the oil pressure reaches the desired setting. Once the valve is open, the pressure remains fairly constant with only small changes occurring as the engine rpm varies.

The filter and all other components in the oil system are subjected to the pressure established by the regulating valve. If this pressure is excessive, filter damage may occur. This is the point that many mechanics that are not familiar with lube systems fail to realize. Just remember any blockage in the system can also send the pressure beyond what the filter can stand which is rated at 400 psi. Burst.

Figure 2 shows the system operating with the regulating valve stuck in the shut position. Under this condition the pressure will build up in seconds and unless something happens to relieve the pressure the filter will become the victim and not the cause. With a high spike of pressure the gasket will blow out or the lockseam will unwind as the pressure increases.



## **EXCESSIVE PRESSURE**

**FIG. 2**

In conclusion, if a filter distorts due to over pressure in the system, the fault might be the regulating valve  
**Not the filter**

\_\_\_\_\_

\_\_\_\_\_

## CHAMPION AEROSPACE PRODUCTS WARRANTY

### SPARK PLUGS, IGNITERS, OIL FILTERS, LEADS & EXCITERS

Champion Aerospace LLC ("Champion") warrants that spark plugs, harnesses, oil filter, exciters, leads and igniters sold by it are, at the time of delivery, free from defects in material and workmanship, provided that no warranty is made with respect to:

- (a) any product that has been subject to negligence, accident or improper storage;
- (b) any product that has been improperly installed or maintained; or
- (c) any product that has been operated beyond normal or recommended replacement intervals or wear limits.

Champion's obligation under this warranty is limited to the replacement of, or at Champion's option, the return of the purchase price of any product which is returned to Champion or its designated representative (at customer's expense) within one (1) year from the date of purchase and which, upon inspection by Champion, is found by Champion to be defective in material or workmanship. Champion shall not be responsible for the cost of labor removing any defective product or installing any replacement product.

THE AFORESAID WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED, IMPLIED OR STATUTORY, INCLUDING, BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

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### Champion Aerospace LLC LIMITATION OF LIABILITY

If Champion Aerospace LLC ("Champion") breaches any of its obligations to Distributor in connection with the sale of any products to Distributor, whether the breach is one of the warranty or for any cause whatsoever, whether in contract or in tort including negligence, Champion may request the return of the products and tender to Distributor the purchase price theretofore paid by Distributor and, in such event, Champion shall have no further redelivery of the products. If Champion so requests the return of the products, Distributor shall redeliver the products to Champion in accordance with Champion's instructions at Champion's expense. THE REMEDIES PROVIDED HEREIN AND IN CHAMPION'S WARRANTY SHALL CONSTITUTE THE SOLE RECOURSE OF DISTRIBUTOR AGAINST CHAMPION FOR BREACH OF ANY OF CHAMPION'S OBLIGATIONS IN CONNECTION WITH THE SALE OF ANY PRODUCTS TO DISTRIBUTOR, WHETHER THE CLAIM IS MADE IN TORT OR IN CONTRACT, INCLUDING CLAIMS BASED ON WARRANTY, NEGLIGENCE, STRICT LIABILITY, DECEIT FRAUD, MISREPRESENTATION OR OTHERWISE.

IN NO EVENT SHALL CHAMPION BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT OR IN TORT INCLUDING NEGLIGENCE) NOR LOST PROFITS, NOR SHALL CHAMPION'S LIABILITY FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THE MANUFACTURE, SALE, DELIVERY OR USE OF ANY PRODUCTS EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

### Warranty Terminology

The following serves as a basic explanation of some of the terms used in the Champion warranty. In no event does the following amend or expand Champion's warranty. Furthermore, paragraph 3 through 9 lists several examples which are in no way exclusive to any other scenario.

1. Defect in Material. Defect in the materials used in the product. Examples: a defect in the metal used in this product.
2. Defect in Workmanship. Defect in the workmanship involved in the direct manufacture of the product.
3. Negligence. Any type of mishandling or unreasonable handling of the product or handling of the product which results in damage.
4. Accident. An event beyond the reasonable control of the person involved.
5. Improper Storage. Storage in any environment or location which may cause damage. Example: storage of the product outside of the protective poly tubes.
6. Improperly Installed. Installation not in strict accordance with Champion's specifications. Example: the use of pliers instead of an approved wrench to tighten the product. Example: the installation of the product of an unapproved application.
7. Improperly Maintained. Maintenance not in strict accordance with Champion's specifications. Example: the failure to inspect or replace at the specified or proper time (hours or cycles).
8. Operated Beyond Normal or Recommended Replacement Intervals. Operation beyond normal replacement levels. Example: the continued operation of an igniter at 401 cycles if it requires, by use or specification, replacement at 400 cycles.
9. Operated Beyond Normal or Recommended Wear Limits. Operation beyond normal wear or recommended limits. Example: the continued operation of an igniter 8.34 mm if, by use or specification, it has a maximum ground electrode (shell) erosion limit of 8.33 mm (.328 in.).

Any igniter that has been subjected to:

|                       |                                                           |
|-----------------------|-----------------------------------------------------------|
| Negligence            | Improper Maintenance                                      |
| Accident              | Operated Beyond Replacement Interval                      |
| Improper Storage      | Operated Beyond Wear Limits (collectively, the "Factors") |
| Improper Installation |                                                           |

... is beyond warranty coverage. Champion is in no way responsible for ascertaining the presence of any of the above factors; instead, the party to whom Champion extends the warranty is responsible to insure that the above factors do not exist.

If an igniter is replaced during troubleshooting and Champion finds the igniter to be serviceable per the approved Component Maintenance Manual or Igniter Technical Notice and Champion notes no material or workmanship defect during the investigation, or notes or discovers the existence of one or more of the Factors, Champion will not allow warranty replacement or credit.

If Champion notes a material or workmanship defect at the warranty investigation and notes that no Factors exist, a replacement or credit will be issued in accordance with the Champion Aerospace LLC Warranty Statement.

### For Technical Assistance Contact:

Champion Aerospace LLC  
Product Support/Technical Services  
1230 Old Norris Road Liberty, SC 29657  
864-843-5400  
Email: support@champaero.com



## **Champion Aerospace LLC**

**Committed to the Aviation Industry**

Our investment in aviation extends far beyond the manufacture and sale of spark plugs, filters, leads, exciters, and igniters. We actively support the industry groups shown here through direct and associate memberships.



Aviation Distributors & Manufacturers Association



Professional Aviation Maintenance Association

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