



**CHAMPION AEROSPACE, INC.**

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

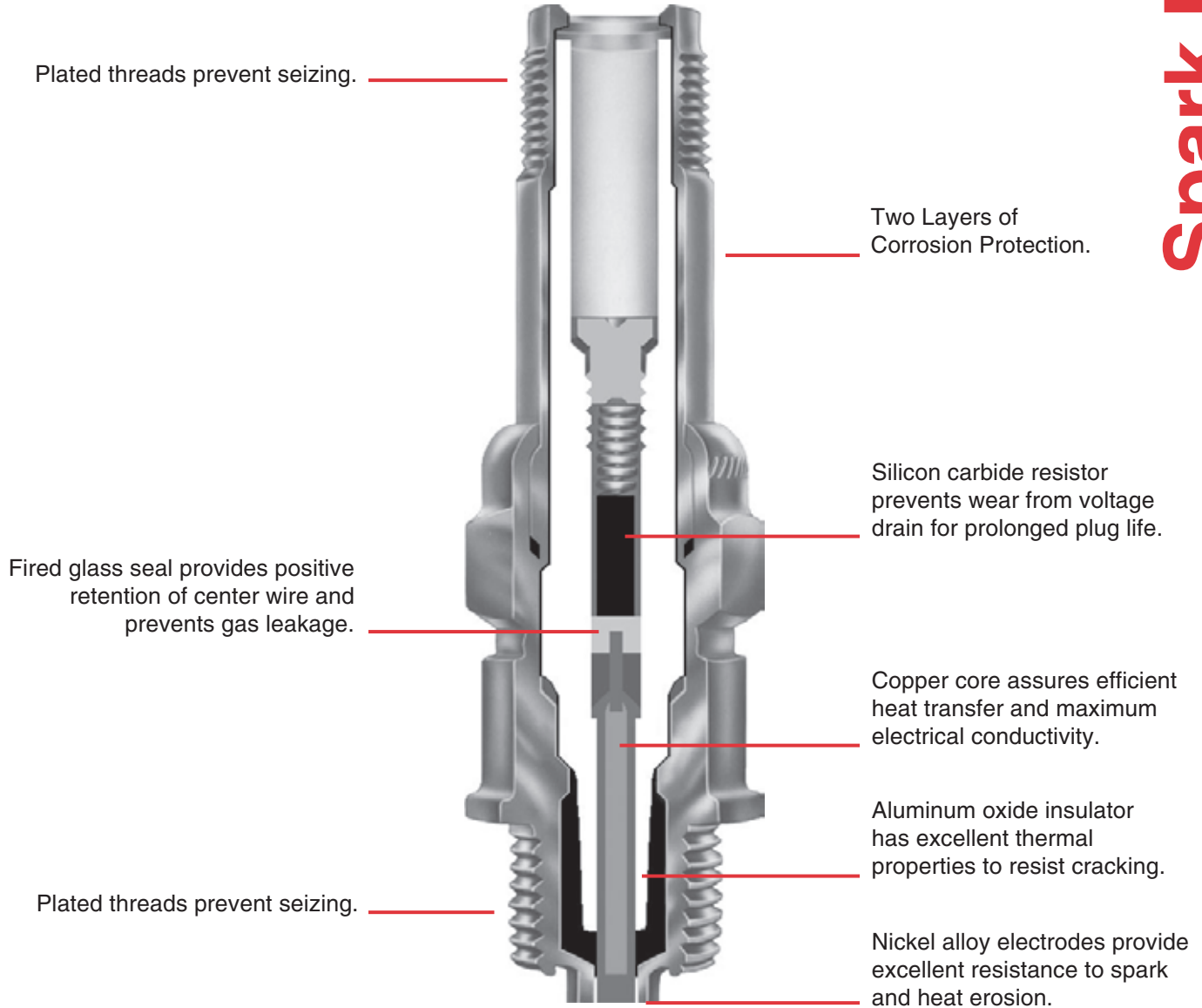
REVISED APRIL 2004

**Spark Plugs**  
**Oil Filters**  
**Harnesses**  
**Exciters**  
**Leads**  
**Igniters**



# Table of Contents

<b>SECTION</b>	<b>PAGE</b>
<b>Spark Plugs</b> .....	<b>1</b>
Product Features .....	1
Spark Plug Type Designation System .....	2
Spark Plug Types and Specifications .....	3
Spark Plug by Popular Aircraft and Engines .....	4-12
Spark Plug Application by Engine Manufacturer .....	13-16
Other U. S. Aircraft and Piston Engines .....	17-18
U. S. Helicopter and Piston Engines .....	18-19
International Aircraft Using U. S. Piston Engines .....	19-22
 <b>Harnesses</b> .....	 <b>23</b>
Aircraft Engine Applications .....	24-28
 <b>Oil Filters</b> .....	 <b>29</b>
Product Features .....	29
Full-Flow Spin-On Filters .....	30
Typical Spin-On Filters .....	31
Aircraft and Engine Applications .....	32-34
Dimensional Data .....	34
 <b>Turbine Exciters</b> .....	 <b>35</b>
Product Features .....	35
Aircraft Engine Applications .....	36
 <b>Turbine Ignition Leads</b> .....	 <b>37</b>
Product Features .....	37
Aircraft Engine Applications .....	38-41
Turbine Engine Applications (APU) .....	41-42
 <b>Turbine Igniters</b> .....	 <b>43</b>
Product Features .....	43
Design Features .....	43
Basic Igniter Types .....	44
Aircraft Engine Applications .....	45-48
Turbine Engine Applications (APU) .....	48-50
Turbine Engine Applications (GPU) .....	50
 <b>Service Tools &amp; Equipment</b> .....	 <b>51</b>
Index .....	51
Special Tools and Equipment .....	52-56
Current/Discontinued Aviation Spark Plugs .....	56
Champion Aerospace, Inc. Products Warranty .....	57



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)

#### 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.	Size
M-674	18 mm Solid Copper
N-673	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. 822kg	14mm	1/2"/1.27cm	None	Push Wire		.018"-.023"/0.46-0.58mm
REJ38	2 lb. - 13 oz. 1.276 kg	14mm	3/8"/0.95cm	5/8" - 24	Single		.018"-.023"/0.46-0.58mm
REL37B	2 lb. - 13 oz. 1.276 kg	14mm	1/2"/1.27cm	5/8" - 24	Twin Electrode		.016"-.021"/0.41-0.53mm
REN30S	2 lbs. - 6 oz. 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. 1.077 kg	18mm	1/2"/1.27cm	None	Two Prong		.016"-.021"/0.41-0.53mm
REM40E REM38E	3 lbs. - 4 oz. 1.474 kg	18mm	1/2"/1.27cm	5/8" - 24	Two Prong		.016"-.021"/0.41-0.53mm
REM38S	3 lbs. - 4 oz. 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. 1.474 kg	18mm	1/2"/1.27cm	5/8" - 24	Twin Electrode		.016"-.021"/0.41-0.53mm
RHM40E RHM38E	3 lbs. - 5 oz. 1.503 kg	18mm	1/2"/1.27cm	3/4" - 20	Two Prong		.016"-.021"/0.41-0.53mm
RHM38S	3 lbs. - 5 oz. 1.503 kg	18mm	1/2"/1.27cm	3/4" - 20	Single Fine Wire	Iridium	.016"-.021"/0.41-0.53mm
REB37E REB32E	3 lbs. - 4 oz. 1.474 kg	18mm	13/16"/2.06cm	5/8" - 24	Two Prong		.016"-.021"/0.41-0.53mm
RHB37E RHB32E RHB29E	3 lbs. - 6 oz. 1.531 kg	18mm	13/16"/2.06cm	3/4" - 20	Two Prong		.016"-.021"/0.41-0.53mm
REB36S	3 lbs. - 4 oz. 1.474 kg	18mm	13/16"/2.06cm	5/8" - 24	Single Fine Wire	Iridium	.016"-.021"/0.41-0.53mm
RHB36S RHB32S RHB27S	3 lbs. - 6 oz. 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. 1.531 kg	18mm	1-1/8"/2.85cm	3/4" - 20	Single Fine Wire	Iridium	.016"-.021"/0.41-0.53mm
RHU32E RHU27E	3 lbs. - 6 oz. 1.531 kg	18mm	1-1/8"/2.85cm	3/4" - 20	Two Prong		.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>ACE AIRCRAFT</b> Cont A-65, C-85	8	RHM40E	REM37BY <b>REM40E</b>			<b>Thrush S2R, S2D</b> P&W R-1340 (600 hp)	18	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>AERONCA</b> <b>7BC</b> Cont C85-12 (85 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>Thrush S2R-800</b> Wright R-1300 (800 hp)	14	<b>RHB37E</b>	REB37E	RHB36S	REB36S
<b>7CC</b> Cont C90-12F (95 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>Schweizer AG-Cat G164</b> Cont W-670 (230 hp)	14	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>15AC</b> Cont C145 (145 hp)	12	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	Jacobs R755 (275 hp)		RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>S15AC</b> Frank 6A4-165-B (165 hp)	12		<b>REJ38</b>			<b>Schweizer Super AG-Cat G164 A thru C</b> P&W R-985 (450 hp)	18		REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>11AC Chief</b> Cont A-65-8 (65 hp)	8	RHM40E	REM37BY <b>REM40E</b>			P&W R 1340 (600 hp)		RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>11CC Super Chief</b> Cont C85-12 (85 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>Weatherly 620</b> P&W R-985 (450 hp)	18	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>AEROSPATIALE (Socata)</b> <b>TB9 Tampico</b> Lyco O-320-D2A (160 hp)	8	RHM40E RHM38E	REM37BY <b>REM40E</b> REM38E		REM38S	<b>AMERICAN GENERAL AIRCRAFT CORP. AG5B</b> Lyco O-360-A4K (180 hp)	8	RHM40E <b>RHM38E</b>	REM37BY REM40E REM38E	RHM38S	REM38S
<b>TB10 Tobago</b> Lyco O-360-A1AD (180 hp)	8	RHM40E <b>RHM38E</b>	REM37BY REM40E REM38E	RHM38S	REM38S	<b>ARCTIC</b> <b>Tern S1B2</b> Lyco O-320-A2B (150 hp)	8	RHM40E	<b>REM40E</b> REM37BY	RHM38S	REM38S
<b>TB20 Trinidad</b> Lyco IO-540-C4D5D (200 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>BEECH</b> <b>D-17S</b> P&W R-985-AN (450 hp)	18	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>TB21 Trinidad TC</b> Lyco TIO-540-ABIAD (250 hp)	12	<b>RHB37E</b> RHB32E		<b>RHB36S</b> RHB32S		<b>AT11</b> 2/P&W R-985-AN (450 hp)	18	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>TB30</b> Lyco AEIO-540-L1B5D (300 hp)	12	RHM38E	REM38E	<b>RHM38S</b>	REM38S	<b>Bonanza E33</b> Cont IO-470-K (225 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>AG AIRCRAFT (Misc)</b> <b>AG Commander A-9 Sparrow</b> Lyco O-540-B2B5 (235 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>E33A, F33A, F33B, F33C</b> Cont IO-520-B (285 hp)	12	<b>RHB32E</b>		RHB36S RHB32S	
<b>Air Tractor AT-301/AT301A/AT401/AT501</b> P&W R-1340 (600 hp)	18	RHM40E RHM40E	<b>REM40E</b> REM37BY	RHM38S	REM38S	<b>Bonanza A35, B35</b> Cont E-185 (185 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>Bull Thrush S2R-R1820</b> Wright R 1820 (1200 hp)	18	<b>RHB37E</b>	REB37E	RHB36S	REB36S	<b>C35, D35, E35, F35</b> Cont E-185-11 (205 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>Eagle 220</b> Cont W-670 (220 hp)	14	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>G35</b> Cont E-225-8 (225 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>Eagle 300</b> Lyco IO-540-M1B5D (300 hp)	18	RHB32E <b>RHB37E</b>	REB32E REB37E	RHB32S RHB36S	REB36S	<b>H35</b> Cont O-470-G (240 hp)	12	RHM40E RHM38E	<b>REM40E</b> <b>REM40E</b>	RHM38S	REM38S
<b>Pezetel PZLM-18A Dromader</b> PZL-ASZ-621R (1000 hp)	18	<b>RHB37E</b>	REB37E	RHB36S	REB36S	<b>J35, K35, M35</b> Cont IO-470-C (250 hp)	12	RHM40E RHM38E	REM40E <b>REM38E</b>	RHM38S	REM38S
<b>Pezetel M-21 Dromader Mini</b> PZL-3S (600 hp)	14	RHB37E	<b>REB37E</b>	RHB36S	REB36S	<b>N35, P35, G33</b> Cont IO-470-N (260 hp)	12	<b>RHB32E</b>		RHB36S RHB32S	
<b>Super A9 Quail</b> Lyco IO-540 (290 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S	<b>S-35, V-35, V35A, V35B</b> Cont IO-520-B (285 hp)	12	<b>RHB32E</b>		RHB36S RHB32S	
<b>B1A Snipe</b> P&W R985 (450 hp)	18	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>V35TC, V35A-TC, V35B-TC</b> Cont TSIO-520-D (285 hp)	12	RHB32E		<b>RHB32S</b>	
<b>B1A Snipe</b> Lyco IO-720 (400 hp)	16	<b>RHM38E</b>	REM38E	RHM38S	REM38S	<b>36, A36</b> Cont IO-520-B (285 hp)	12	<b>RHB32E</b>		RHB36S RHB32S	
<b>S2A</b> Cont W-670 (220 hp)	14	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>B36TC</b> Cont TSIO-520-UB (300 hp)	12	RHB32E		<b>RHB32S</b>	
<b>S2B, S2C, 600-S2C</b> P&W R985 (450 hp)	18		REM37BY			<b>36B, 550</b> Cont IO-550-B (300 hp)	12	<b>RHB32E</b>		RHB36S RHB32S	
R-1340 (600 hp)		RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>Twin Bonanza B50</b> 2/Lyco GO-435-C (260 hp)	12	RHM40E RHM38E	<b>REM40E</b> REM38E	RHM38S	REM38S
						<b>C50</b> 2/Lyco GO-480-F (275 hp)	12	RHM40E RHM38E	REM40E <b>REM38E</b>	RHM38S	REM38S
						<b>D50, D50A</b> 1/2" Rch. Cyl. 2/Lyco GO-480-C, G (295 hp)	12	RHM38E	REM38E	RHM38S	<b>REM38S</b>
						<b>D50, D50A</b> 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.

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

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>BELLANCA (Cont'd)</b> <b>17-31TC, 17-31ATC</b> Lyco IO-540-G Series, K1E5 (290/300 hp)	12	<b>RHB37E</b> RHB32E		RHB36S RHB32S		<b>CESSNA</b> <b>Bobcat T-50</b> 2/Jacobs R755 (300 hp)	14	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>17-31TC</b> Lyco IO-540-K (300 hp)	12	<b>RHB37E</b> RHB32E		RHB36S RHB32S		<b>120, 140</b> Cont C-85 (85 hp) Cont C-90 (95 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>BELLANCA (Champion)</b> <b>7AC-S7AC</b> Cont A65-8 (65 hp)	8		REM37BY <b>REM40E</b>		REM38S	<b>150, A thru M</b> Cont O-200A (100 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>7DC, S7DC</b> Cont C-85-8 (85 hp)	8	RHM40E	REM37BY <b>REM40E</b>		REM38S	<b>152, F152</b> Lyco O-235-L2C, N2C (110 hp)	8	RHM40E RHM38E	<b>REM37BY</b> REM40E REM38E		
<b>S7CCM, 7EC, S7EC, 7FC, 7JC</b> Cont C-90-12 (90 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>170, 170A, B</b> Cont C-145 (145 hp) O-300 (145 hp)	12	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>7GC, 7HC</b> Lyco O-290-D (135 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>172, A-H, Skyhawk</b> Cont O-300 (145 hp)	12	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>7GCA, 7GCB, 7GCBA, 7GCAA, 7GCB, 7KC</b> Lyco O-320-A (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>172 I-M Skyhawk</b> Lyco O-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>7ACA</b> Frank 2A-120-B (50 hp)	4	<b>RHB32E</b>		RHB36S		<b>172N, F172N</b> <b>Skyhawk/100</b> Lyco O-320-H2AD (160 hp)	8	RHM40E <b>RHM38E</b>	REM37BY REM40E REM38E	RHM38S	REM38S
<b>7ECA</b> Lyco O-235 (108 hp) Cont O-200-A (100 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>172P Skyhawk</b> Lyco O-320-D2J (160 hp)	8	RHM40E RHM38E	REM37BY <b>REM40E</b> REM38E	RHM38S	REM38S
<b>7ECA</b> Lyco O-235-K (118 hp)	8	RHM38E	REM37BY <b>REM38E</b>	RHM38S	REM38S	<b>P172, Powermatic</b> Cont GO-300-E (175 hp)	12	RHM40E RHM38E	<b>REM40E</b> REM38E	RHM38S	REM38S
<b>7KCAB</b> Lyco IO-320-E (150 hp) AEIO-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>R172K, FR172K Hawk XP</b> Cont IO-360-K (195 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S
<b>8KCAB</b> Lyco IO-320-E (150 hp) AEIO-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>R172R &amp; S</b> Lyco IO-360-L2A (160/180 hp)	8	<b>RHM38E</b> RHM40E	REM38E REM40E	RHM38S	REM38S
<b>8GCBC Super Scout</b> Lyco O-360-C Series (180 hp)	8	RHM40E RHM38E	REM37BY REM40E <b>REM38E</b>	RHM38S	REM38S	<b>172RG Cutlass RG</b> Lyco O-360-F1A6 (180 hp)	8	RHM40E <b>RHM38E</b>	REM37BY REM40E REM38E	RHM38S	REM38S
<b>8KCAB</b> Lyco AEIO-360-H1A (180 hp)	8	RHM40E RHM38E	REM40E <b>REM38E</b>	RHM38S	REM38S	<b>172G Cutlass II</b> Lyco O-360-A4H (180 hp)	8	RHM40E RHM38E	REM37BY <b>REM40E</b> REM38E	RHM38S	REM38S
<b>BRANTLY</b> <b>B2</b> Lyco VO-360 (180 hp) IVO-360 (180 hp)	8	RHM40E RHM38E	REM40E REM38E	RHM38S	<b>REM38S</b>	<b>175A, B, C, Skylark</b> Cont GO-300-A thru E (175 hp)	12	RHM40E RHM38E	REM37BY <b>REM40E</b> REM38E	RHM38S	REM38S
<b>B2B</b> IVO-360A (180 hp)	8	<b>RHB37E</b>		RHB36S		<b>175</b> Frank 6A-335-B (180 hp)	12	<b>RHB32E</b>		RHB36S	
<b>305</b> Lyco IVO-540-A1A (305 hp)	12	RHB37E		<b>RHB36S</b>		<b>177, Cardinal</b> Lyco O-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>CALL-AIR</b> <b>A, A-2, A-4</b> Lyco O-235 (115 hp) Lyco O-290 (140 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>177A, 177B, Cardinal</b> Lyco O-360-A1F6D (180 hp)	8	RHM40E RHM38E	REM37BY REM40E <b>REM38E</b>	RHM38S	REM38S
<b>A-5</b> Lyco O-320-A (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S	<b>Cardinal RG</b> Lyco IO-360-A1B6D (200 hp)	8	<b>RHM38E</b>	REM38E	RHM38S	REM38S
<b>A-6</b> Lyco O-360-A (180 hp)	8	RHM40E RHM38E	REM37BY REM40E <b>REM38E</b>	RHM38S	REM38S	<b>180</b> Cont O-470-A, -J (225 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>A-7, A7T</b> Cont W-670 (240 hp)	14	RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>180A thru D</b> Cont O-470-K, -L (230 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
						<b>180E, F, G, H, J</b> Cont O-470-R, -S (230 hp)	12	<b>RHM40E</b>	REM40E	RHM38S	REM38S
						<b>180K</b> Cont O-470-U (230 hp)	12	<b>RHB32E</b>		RHB36S 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.



# 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>				RHB36S	
<b>182E thru P, Skylane</b>						Cont TSIO-520-G, -M (285 hp)	12	RHB32E		<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>				RHB36S		Cont IO-470-E, -S (260 hp)	12	<b>RHB32E</b>		RHB32S	
Cont O-470-U (230 hp)	12	<b>RHB32E</b>		RHB32S		<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	RHB32S
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>				<b>RHB36S</b>		Cont TSIO-520-C, -H, -R (285 hp)	12	RHB32E		RHB36S	<b>RHB32S</b>
LycO O-540-L3C5D (235 hp)	12	RHB37E		RHB32S		<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>				<b>RHB36S</b>		2/Cont TSIO-520-AE & LTSIO-520-AE (250 hp)	12	RHB32E		RHB36S	<b>RHB32S</b>
TIO-540-AJ1A	12	RHB37E		RHB32S		<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>				RHB36S		2/Cont O-470-M (240 hp)	12	<b>RHM40E</b>	REM40E	RHM38S	
Cont IO-470-F (260 hp)	12	<b>RHB32E</b>		RHB32S		<b>310C, D, F thru M, P, Q</b>				RHB36S	
<b>185F, A185E/F Skywagon &amp; AG Carry (All)</b>						2/Cont IO-470-D, -U, -V, -VO (260 hp)	12	<b>RHB32E</b>		RHB32S	
Cont IO-520-D (300 hp)	12	<b>RHB32E</b>		RHB36S		<b>310R</b>				RHB36S	
<b>188 Agwagon</b>				RHB32S		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>				RHB36S	
<b>188 Agpickup</b>						2/Cont TSIO-520-B (285 hp)	12	RHB32E		<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>				RHB36S		2/Cont TSIO-470-B, -C, -D (260 hp)	12	RHB32E		<b>RHB36S</b>	RHB32S
Cont IO-520-D (300 hp)	12	<b>RHB32E</b>		RHB32S		<b>320D, E, F, Executive Skynight</b>				RHB36S	
<b>188 Agrtruck</b>				RHB36S		2/Cont TSIO-520-B (285 hp)	12	RHB32E		<b>RHB32S</b>	
Cont IO-520-D (300 hp)	12	<b>RHB32E</b>		RHB32S		<b>335</b>				RHB36S	
<b>T188C Aghusky</b>				RHB36S		2/Cont TSIO-520-EB (300 hp)	12	RHB32E		<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>				RHB36S		2/Cont TSIO-360-C (225 hp)	12	<b>RHM38E</b>		RHM38S	
Cont IO-470-S (260 hp)	12	<b>RHB32E</b>		RHB32S		<b>T337H Turbo Skymaster</b>					
<b>C-206-H</b>						2/Cont TSIO-360-H (210 hp)	12	<b>RHM38E</b>		RHM38S	
IO-540-AC1A5 (300 hp)	12	RHB37E		<b>RHB36S</b>		<b>340</b>				RHB36S	
<b>T-206-H</b>				<b>RHB32S</b>		2/Cont TSIO-520-K (285 hp)	12	RHB32E		<b>RHB32S</b>	
TIO-540-AJ1A (310 hp)	12	RHB37E		RHB36S		<b>340A</b>				RHB36S	
<b>P206 Super Skylane</b>				RHB36S		2/Cont TSIO-520-N (310 hp)	12	RHB32E		<b>RHB32S</b>	
Cont IO-520-A (285 hp)	12	<b>RHB32E</b>		RHB32S		<b>401, 402A, B</b>				RHB36S	
<b>TP206 Super Skylane</b>				RHB36S		2/Cont TSIO-520-E (300 hp)	12	RHB32E		<b>RHB32S</b>	
Cont TSIO-520-C (285 hp)	12	RHB32E		<b>RHB32S</b>		<b>402C</b>					
<b>U206 Super Skywagon</b>						2/Cont TSIO-520-VB (325 hp)	12	RHB32E		RHB36S	<b>RHB32S</b>
<b>U206D</b>											
Cont IO-520-A (285 hp)				RHB36S							
Cont IO-520-F (300 hp)	12	<b>RHB32E</b>		RHB32S							
<b>U206E, U206G Stationair, U206F</b>				RHB36S							
Cont IO-520-F (300 hp)	12	<b>RHB32E</b>		RHB32S							
<b>TU206 Super Skywagon</b>				RHB36S							
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.

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>404 Titan</b> 2/Cont GTSIO-520-M (375 hp)	12	RHB32E		RHB36S <b>RHB32S</b>		<b>GULFSTREAM AMERICAN</b> <b>AA-1 Yankee</b> Lyco O-235 (108 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>411, 411A</b> 2/Cont GTSIO-520-C (340 hp)	12	RHB32E		RHB36S <b>RHB32S</b>		<b>AA-1A, AA-1B Trainer</b> Lyco O-235 (108 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>414, 414A</b> 2/Cont TSIO-520-J, -N (310 hp)	12	RHB32E		RHB36S <b>RHB32S</b>		<b>AA-1B, TR2</b> Lyco O-235 (108 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>421A, B, C</b> 2/Cont GTSIO-520-D, -H, -L -N (375 hp)	12	RHB32E		RHB36S <b>RHB32S</b>		<b>AA1C Lynx, T-Cat</b> Lyco O-235-L (115 hp)	8	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
<b>CHAMPION (See Bellanca)</b>						<b>AA-5 Traveler</b> Lyco O-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>CHRISTEN</b> <b>S-1T Pitts Special</b> Lyco AEIO-360-A1E (200 hp)	8	RHM38E	REM37BY <b>REM38E</b>	RHM38S	REM38S	<b>AA5A Cheetah</b> Lyco O-320-E (150 hp)	8	RHM40E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>S-2B, S-2S Pitts Special</b> Lyco AEIO-540-D4A5 (260 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>AA-5B Tiger</b> Lyco O-360-A4K (180 hp)	8	RHM40E RHM38E	REM37BY REM40E <b>REM38E</b>	RHM38S	REM38S
<b>CIRRUS</b> <b>SRV, SR20</b> Cont. IO360-ES (200 hp)	8	RHM38E	REM38E	RHM38S	REM38S	<b>Cougar</b> 2/Lyco O-320-D (160 hp)	8	RHM40E RHM38E	REM37BY <b>REM40E</b>	RHM38S	REM38S
<b>SR22</b> Cont. IO550-N (310 hp)	12	RHB32E			RHB36S <b>RHB32S</b>	<b>COMMANDER</b> <b>Commander 200D</b> Cont IO-520-A (285 hp)	12	<b>RHB32E</b>		RHB32S	
<b>COMMANDER</b> <b>AIRCRAFT COMPANY</b> <b>Commander 114B</b> Lyco IO-540-T4B5 (260 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>500</b> 2/Lyco O-540-A (250 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	<b>REM38S</b>
<b>Commander 114TCL</b> TSIOL-550B	12	<b>RHU32E</b>		RHU32S		<b>500A</b> 2/Cont IO-470-M (260 hp)	12	<b>RHB32E</b>		RHB32S	
<b>DIAMOND</b> <b>Eclipse Evolution</b> <b>DA 20-1C</b> Cont. IO240B3B (125 hp)	8	<b>RHM38E</b>	REM38E			<b>500B, 500U, 500S</b> 2/Lyco IO-540-B, -E 1/2" Rch. Cyl. (290 hp)	12	RHM38E	REM38E	RHM38S	<b>REM38S</b>
<b>DA 40-180</b> Lyco IO360-MIA (180 hp)	8	RHM38E	REM37BY REM40E <b>REM38E</b>		REM38S	<b>500U</b> 2/Lyco IO-540-E1B5 13/16" Rch. Cyl. (290 hp)	12	RHB37E RHB32E	<b>REB37E</b> REB32E	RHB36S RHB32S	REB36S
<b>ENSTROM</b> <b>F28, F28A, 280</b> Lyco HIO-360-C (205 hp)	8	RHM38E	REM38E	RHM38S	<b>REM38S</b>	<b>520</b> 2/Lyco GO-435-C (260 hp)	12	RHM40E RHM38E	<b>REM40E</b> REM38E	RHM38S	REM38S
<b>F28B</b> Lyco TIO-360-B2A (200 hp)	8	<b>RHB37E</b>	REB37E	RHB36S	REB36S	<b>BY560</b> 2/Lyco GO-480-B (270 hp) GO-480-D (275 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	<b>REM38S</b>
<b>F28C, 280C</b> Lyco HIO-360-E1AD (205 hp)	8	RHB32E		<b>RHB32S</b>		<b>560A, E</b> 1/2" Rch. Cyl. 2/Lyco GO-480-C, -G (295 hp)	12	RHM38E	REM38E	RHM38S	<b>REM38S</b>
<b>F28E, F28F</b> Lyco IO-360-F1AD (225 hp)	8	RHB32E		<b>RHB32S</b>		<b>560A, E</b> 13/16" Rch. Cyl. 2/Lyco GO-480-G (295 hp)	12	RHB37E		<b>RHB36S</b>	
<b>ERCOUPE</b> <b>Club-Air 415-C</b> Cont C-75 (75 hp)	8	RHM40E	REM37BY <b>REM40E</b>			<b>560F</b> 1/2" Rch. Cyl. 2/Lyco IGO-540 (350 hp)	12	RHM38E		<b>RHM36S</b>	
<b>Club-Air 415E, F, G, H</b> Cont C-85 (85 hp)	8	RHM40E	REM37BY <b>REM40E</b>			<b>560F</b> 13/16" Rch. Cyl. 2/Lyco IGO-540 (350 hp)	12	RHB37E		<b>RHB36S</b>	
<b>GRUMMAN</b> <b>Goose 21</b> 2/P & W R-985 (450 hp)	18	RHM40E	REM40E	RHM38S	REM38S	<b>680, 680E</b> 1/2" Rch. Cyl. 2/Lyco GSO-480-A (340 hp)	12	RHM38E	REM38E	RHM38S	<b>REM38S</b>
<b>Widgeon G44</b> 2/Ranger 6-440-C5 (200 hp)	12	RHM40E	REM40E	RHM38S	REM38S	<b>680, 680E</b> 13/16" Rch. Cyl. 2/Lyco GSO-480-A (340 hp)	12	RHB37E		<b>RHB36S</b>	
<b>Modified G44</b> 2/Cont IO-470-M (260 hp)	12	<b>RHB32E</b>		RHB36S RHB32S							
<b>Modified G44</b> 2/Lyco GO-480-B (270 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S						
<b>Mallard G-73</b> 2/P & W R-1340 (600 hp)	18	RHM40E	REM40E	RHM38S	REM38S						
<b>Avenger TBM</b> Wright R-2600 (1900 hp)	28	RHB37E	<b>REB37E</b>	RHB36S	REB36S						

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>COMMANDER (Cont'd)</b> <b>680F, 680FP, 680FL, 680FLP</b> 1/2" Rch. Cyl. 2/Lycos IGSO-540-B (380 hp)	12	RHM38E		RHM38S		<b>SL 3/4</b> Lycos TIVO-540-A (315 hp)	12	RHB37E RHB32E		RHB36S RHB32S	
<b>680F, 680FP, 680FL, 680FLP</b> 13/16" Rch. Cyl. 2/Lycos IGSO-540-B (380 hp)	12	RHB37E RHB32E		RHB36S RHB32S		<b>HILLMAN 360-H360</b> Lycos HIO-360 C1A (205 hp)	8	RHM38E	REM38E	RHM38S	REM38S
<b>112, 112A</b> Lycos IO-360-C (200 hp)	8	RHM38E	REM38E	RHM38S	REM38S	<b>JOVAIR CORP. 4E Sedan</b> Frank 6V-335 (210 hp)	12	RHB37E	REB37E	RHB36S	REB36S
<b>112TC, 112TCA</b> Lycos TO-360-C1A6D (210 hp)	8	RHB32E		RHB32S		<b>LAKE 200EP</b> Lycos IO-360-A1B6 (200 hp)	8	RHM38E	REM38E	RHM38S	REM38S
<b>114, 114A</b> Lycos IO-540-T4A5D (260 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>LA-250</b> Lycos IO-540-C4B5 (250 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	
<b>Commander 685</b> 2/Cont GTSIO-520-F, -K (435 hp)	12	RHB32E		RHB32S		<b>Skimmer C-1</b> Lycos O-320-A (150 hp)	8	RHM40E	REM40E	RHM38S	REM38S
<b>Model 700</b> 2/Lycos TIO-540-R2AD (340/350 hp)	12	RHB37E RHB32E	REB37E REB32E	RHB36S RHB32S	REB36S	<b>Skimmer C-2, LA-4, LA-4A</b> Lycos O-360-A (180 hp)	8	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
<b>HELIO Courier</b> Lycos GO-435-C (260 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>Skimmer LA-4-200</b> Lycos IO-360-A1B6 (200 hp)	8	RHM38E	REM38E	RHM38S	REM38S
<b>Super Courier</b> 1/2" Rch. Cyl. Lycos GO-480-G (295 hp)	12	RHM38E	REM38E	RHM38S	REM38S	<b>LANCAIR Columbia 300, 350</b> Cont IO520N (310 hp)	12	RHB32E		RHB32S RHB36S	
<b>Strato Courier</b> 1/2" Rch. Cyl. Lycos GSO-480-A (340 hp)	12	RHM38E	REM38E	RHM38S	REM38S	<b>Columbia 400</b> Cont TSIO550 (310 hp)	12	RHB32E		RHB32S RHB36S	
<b>Strato Courier</b> 13/16" Rch. Cyl. Lycos GSO-480-A (340 hp)	12	RHB37E		RHB36S		<b>LUSCOMBE Silvaire 8A</b> Cont A-65 (65 hp)	8	RHM40E	REM37BY REM40E		
<b>Caballero</b> Lycos O-540-A (250 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>Silvaire 8C, D</b> Cont A-75 (75 hp)	8	RHM40E	REM37BY REM40E	RHM38S	REM38S
<b>Helio 700</b> Lycos TIO-540-J2BD (350 hp)	12	RHB37E RHB32E		RHB36S RHB32S		<b>Silvaire 8E, F</b> Cont C-85 (85 hp) Cont C-90 (95 hp)	8	RHM40E	REM37BY REM40E	RHM38S	REM38S
<b>Helio 800</b> Lycos IO-720-A1B (400 hp) (Long Reach)	16	RHB37E RHB32E	REB37E REB32E	RHB36S RHB32S	REB36S	<b>Sedan 1A</b> Cont E-165 (165 hp)	12	RHM40E	REM40E	RHM38S	
<b>Helio 800</b> Lycos IO-720-A1B (400 hp) (Short Reach)	16	RHM38E	REM38E	RHM38S	REM38S	<b>McCULLOCH J-2</b> Lycos O-360-A (180 hp)	8	RHM40E RHM38E	REM37BY REM40E REM38E	RHM38S	REM38S
<b>Helio Twin</b> 2/Lycos O-540-A (250 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>MAULE M4 Astro Rocket</b> Frank 6A-335B (180 hp)	12	RHB32E		RHB32S	
<b>Twin Courier</b> 2/Lycos O-540-A (250 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>M4 Jetasen</b> Cont O-300A (145 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
<b>HILLER UH-12B</b> Frank 6V4-200 (200 hp)	12		REL37B			<b>M4 Rocket</b> Cont IO-360-A (210 hp)	12	RHM38E	REM38E	RHM38S	REM38S
<b>UH-12C</b> Frank 6V-335 (210 hp)	12		REL37B			<b>M4 Strata Rocket</b> Frank 6A-350C (220 hp)	12	RHB32E		RHB32S	
<b>UH-12D</b> Lycos VO-435 (260 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S	<b>M5-180C, MX7-180</b> Lycos O-360-C, O-360-C1F (180 hp)	8	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
<b>UH-12E</b> 1/2" Rch. Cyl. Lycos VO-540 (305 hp)	12	RHM38E	REM38E	RHM38S	REM38S	<b>M5-210C</b> Cont IO-360D (210 hp)	12	RHM38E	REM38E	RHM38S	REM38S
<b>UH-12E, L</b> 13/16" Rch. Cyl. Lycos VO-540-C (305 hp)	12	RHB37E		RHB36S		<b>M5-210TC</b> Lycos TO-360-C1A6D (210 hp)	8	RHB37E RHB32E	REB37E REB32E	RHB36S	REB36S
						<b>M5-235C, M6-235, M7-235</b> Lycos O-540-J1A5D (235 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
						<b>MX-7-235</b> Lycos O-540-W1A5D (235 hp)	12	RHM40E RHM38E	REM40E REM38E	RHM38S	REM38S
						<b>MEYERS MAC-145</b> Cont C-145 (145 hp)	12	RHM40E	REM37BY REM40E	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.

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
MEYERS (Cont'd)						PIPER					
200		RHM40E	REM40E			Cub J3, J4, JT, 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, 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	REM38S	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	RHM38S	REM38S	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			REM37BY			LycO O-320-A (150 hp)	8	RHM40E	REM40E	RHM38S	REM38S
LycO IO-360-A1A (200 hp)	8	RHM40E	REM40E	RHM38S	REM38S	PA-22 "160"			REM38E		
M20G Statesman			REM40E			LycO O-320-B (160 hp)	8	RHM38E	REM37BY	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		RHM38S		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		RHB32S		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
LycO 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	
LycO TIO-541-A1A (310 hp)	12	RHB32E		RHB32S				RHB32E	REB32E	RHB32S	REB36S
NAVION											
A											
Cont E-185 (205 hp)	12	RHM40E	REM40E	RHM38S	REM38S						
B											
LycO GO-435C (260 hp)	12	REM40E	RHM38E	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							
H											
Cont IO-520 (285 hp)	12	RHB32E		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.



# 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>			REM37BY			<b>PAT-1020</b>		RHB37E		<b>RHB36S</b>	
<b>Comanche PA-24 "180"</b>		RHM40E	REM40E			LycO TIO-540-J2B (350 hp)	12	RHB32E		RHB32S	
LycO O-360-A (180 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S	<b>Navajo PA-31P</b>		RHB37E		<b>RHB36S</b>	
<b>PA-24 "250"</b>		RHM40E	<b>REM40E</b>			2/LycO TIGO-541-E1A (425 hp)	12	RHB32E		RHB32S	
LycO O-540-A (250 hp)		RHM38E	REM38E	RHM38S	REM38S	<b>Mojave (PA-31P-350)</b>		RHB37E		RHB36S	
IO-540-C (250 hp)	12	RHM38E	REM38E	RHM38S	REM38S	2/LycO TIO & LTIO-540-V2AD (360 hp)	12	RHB32E		<b>RHB32S</b>	
<b>PA-24 "260", PA24B, PA24C</b>		RHM40E	REM40E			<b>Cherokee Six PA-32 "260"</b>		RHM40E	REM40E	RHM38S	REM38S
LycO IO-540-B, -D, -N (260 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S	LycO O-540-E4B5 (260 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S
<b>PA-24 "260" Turbo</b>		RHB32E	REB32E	RHB32S		<b>Cherokee Six PA-32 "300"</b>		RHM38E	<b>REM38E</b>	RHM38S	REM38S
LycO IO-540-R1A5 (260 hp)	12	RHB37E	REB37E	<b>RHB36S</b>	REB36S	LycO IO-540-K1A5 (300 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S
<b>PA-24 "400"</b>		RHM38E		<b>RHM38S</b>		<b>Cherokee Lance PA-32 "300"</b>					
LycO IO-720-A (400 hp)	16	RHM38E		<b>RHM38S</b>		LycO IO-540-K1A5D (300 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S
<b>Pawnee PA-25 "150"</b>			REM37BY			<b>Cherokee Lance II PA-32 "300" R</b>					
LycO O-320-A (150 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	LycO IO-540-K1G5D (300 hp)	12	<b>RHM38E</b>	REM38E	RHM38S	REM38S
<b>PA-25 "235"</b>		RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>PA-32RT-300T Turbo Lance</b>		<b>RHB37E</b>		RHB36S	
LycO O-540-B (235 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S	LycO TIO-540-S1AD (300 hp)	12	RHB32E		RHB32S	
<b>PA-25 "260"</b>		RHM40E	REM40E			<b>Saratoga PA-32-301</b>					
LycO O-540-G (260 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S	LycO IO-540-K1G5D (300 hp)	12	<b>RHM38E</b>	REM38E	RHM38S	REM38S
<b>Cherokee PA-28 "140"</b>			REM37BY			<b>Turbo-Saratoga PA-32-301T</b>		<b>RHB37E</b>	REB37E	RHB36S	
LycO O-320-E (140 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	LycO TIO-540-S1AD (300 hp)	12	RHB32E		RHB32S	REB36S
<b>PA-28 "150" Flight Liner 2+2 Cruiser, Warrior "151"</b>			REM37BY			<b>Saratoga SP PA-32R-301</b>					
LycO O-320-A, -E (150 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	LycO IO-540-K1G5D (300 hp)	12	<b>RHM38E</b>	REM38E	RHM38S	REM38S
<b>PA-28 Warrior II "161" Cadet</b>		RHM40E	<b>REM40E</b>			<b>Turbo-Saratoga SP PA-32R-301T</b>		<b>RHB37E</b>	REB37E	RHB36S	
LycO O-320-B, -D (160 hp)	8	RHM38E	REM38E	RHM38S	REM38S	LycO TIO-540-S1AD (300 hp)	12	RHB32E	REB32E	RHB32S	REB36S
<b>PA-28 "180" Challenger, Archer</b>		RHM40E	REM40E			<b>Seneca PA-34</b>					
LycO O-360-A (180 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S	2/LycO LIO-360-C & IO-360-C (200 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S
<b>PA-28 "181" Archer II</b>		RHM40E	REM40E			<b>Seneca II PA-34-200T</b>					
LycO O-360-A (180 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S	2/Cont TSIO-360-E, EB & LTSIO-360-E (200 hp)	12	<b>RHM38E</b>		RHM38S	
<b>PA-28R "180" Arrow</b>		RHM40E	REM40E			<b>Seneca III PA-34-220T</b>					
LycO IO-360-B (180 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S	2/Cont TSIO-360-KB & LTSIO-360-KB (220 hp)	12	<b>RHM38E</b>		RHM38S	
<b>PA-28R Arrow II, III, IV "200"</b>						<b>Pawnee Brave PA-36</b>		<b>RHU27E</b>			
LycO IO-360-C (200 hp)	8	RHM38E	<b>REM38E</b>	RHM38S	REM38S	Cont 6-285-B (285 hp) Tierra Engine	12				
<b>PA-28R Turbo Arrow III, IV</b>						<b>Pawnee Brave PA-36</b>		RHM38E	<b>REM38E</b>	RHM38S	REM38S
Cont TSIO-360F, FB (200 hp)	12	<b>RHM38E</b>		RHM38S		LycO IO-540-K1G5 (300 hp)	12	RHB32E		RHB32S	
<b>PA-28 "235" Charger, Pathfinder</b>		RHM40E	<b>REM40E</b>	RHM38S	REM38S	<b>Pawnee Brave PA-36</b>		<b>RHB37E</b>	REB37E	RHB36S	REB36S
LycO O-540-B (235 hp)	12	RHM38E	<b>REM38E</b>	RHM38S	REM38S	LycO IO-720-D1CD (375 hp)	16				
<b>PA-28 "236" Dakota</b>		RHM40E	REM40E			<b>Twin Comanche PA-39</b>		RHM40E	REM40E	RHM38S	<b>REM38S</b>
LycO O-540-J3A5D (235 hp)	12	RHM38E	REM38E	RHM38S	REM38S	2/LycO IO-320-B & LIO-320-B (160 hp)	8	RHM38E	REM38E	RHM38S	
<b>PA-28-201T Turbo Dakota</b>						<b>Twin Comanche PA-39 Turbo</b>					
Cont TSIO-360-FB (200 hp)	12	<b>RHM38E</b>		RHM38S		2/LycO LIO-320-C & IO-320-C (160 hp)	8	RHB37E	REB37E	RHB36S	<b>REB36S</b>
<b>Twin Comanche PA-30 "160"</b>		RHM40E	<b>REM40E</b>			<b>PA-40</b>		RHM40E	<b>REM40E</b>		
2/LycO IO-320-B (160 hp)	8	RHM38E	REM38E	RHM38S	REM38S	2/LycO IO-320-B & LIO-320B (160 hp)	8	RHM38E	REM38E	RHM38S	REM38S
<b>Navajo PA-31 "300"</b>		RHB37E	REB37E	RHB36S	REB36S	<b>Tomahawk-Trainer PA-38</b>		RHM40E	REM40E		
2/LycO IO-540-M (300 hp)	12	<b>RHB37E</b>	REB37E	RHB36S	REB36S	LycO O-235-L2C (112 hp)	8	RHM38E	REM38E	RHM38S	REM38S
<b>Navajo PA-31</b>		RHB37E		<b>RHB36S</b>							
2/LycO TIO-540-A1A, A2C (310 hp)	12	RHB32E		RHB32S							
<b>Navajo PA-31-325C/R</b>		RHB37E		<b>RHB36S</b>							
2/LycO TIO-540-F2BD & LTIO-540-F2BD (325 hp)	12	RHB32E		RHB32S							
<b>Navajo PA-31 Chieftain</b>		RHB37E		<b>RHB36S</b>							
2/LycO TIO-540-J & LTIO-540-J (350 hp)	12	RHB32E		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.



# 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>Seminole PA-44-180</b>						<b>S-51</b>			REM37BY		
2/Lyclo LO-360-E1A6D & O-360-E1A6D (180 hp)	8	RHM40E <b>RHM38E</b>	REM40E REM38E	RHM38S	REM38S	P & W R-985 (450 hp)	18	RHM38E	<b>REM40E</b>	RHM38S	REM38S
<b>Turbo-Seminole PA-44-180T</b>						<b>S-55A</b>					
2/Lyclo TO-360-E1A6D & LTO-360-E1A6D (180 hp)	8	<b>RHB37E</b> RHB32E	REB37E REB32E	RHB36S RHB32S	REB36S	Wright R-1300 (800 hp)	14	RHB37E	<b>REB37E</b>	RHB36S	REB36S
<b>Malibu PA-46-301-P</b>						<b>S-55C</b>			REM37BY		
Cont TSIO-520-BE (310 hp)	12	<b>RHB32E</b>		RHB36S RHB32S		P & W R-1340 (600 hp)	18	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>Malibu Mirage PA-46-350-P</b>						<b>S-56</b>					
Lyclo TIO-540-AE2A (350 hp)	12	RHB37E RHB32E		<b>RHB36S</b> RHB32S		2/P & W R-2800-50 (1800 hp)	36	RHB32E <b>RHB37E</b>	REB32E REB37E	RHB32S RHB36S	REB36S
<b>PA-60-600, 600A Aerostar</b>						<b>S-58</b>					
2/Lyclo 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>SLINGSBY FIREFLY</b>					
2/Lyclo IO-540-P1A5,S1A5 (290 hp)	12	RHB37E RHB32E		<b>RHB36S</b> RHB32S		<b>Airforce T-3A</b>	12		REM40E <b>REM38E</b>		REM38S
<b>PA-60-601P Aerostar</b>						<b>STINSON</b>					
2/Lyclo IO-540-S1A5 (290 hp)	12	RHB37E RHB32E		<b>RHB36S</b> RHB32S		<b>Reliant V-77</b>	18	RHM40E	<b>REM40E</b>	REM38S	
<b>PA-60-602P Aerostar</b>						<b>Vigilant V-74</b>					
2/Lyclo IO-540-AA1A5 (290 hp)	12	RHB32E RHB37E		<b>RHB36S</b> RHB32S		Lyclo R-680-13 (300 hp)	18	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>PA-60-700P</b>						<b>Sentinel V-76</b>					
2/Lyclo TIO-540-UJ2A & LTIO-540-U2B (350 hp)	12	RHB37E RHB32E		<b>RHB36S</b> RHB32S		Lyclo O-435-1 (190 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>REPUBLIC</b>						<b>105</b>					
<b>Seabee RC-3</b>						Frank 4AC-199-E2 (90 hp)	8		<b>REJ38</b>		
Frank 6A8-215-B (215 hp)	12		<b>REJ38</b>			<b>Voyager 108</b>	12		<b>REJ38</b>		
<b>Twin Bee</b>						<b>Voyager 108</b>	12		<b>REJ38</b>		
(United Consultants Conv.)						Frank 6A4-165 (165 hp)	12		<b>REJ38</b>		
2/Lyclo IO-360-A (180 hp)	8	RHM40E RHM38E	REM40E <b>REM38E</b>	RHM38S	REM38S	<b>Voyager 108-5</b>	12	<b>RHB32E</b>		RHB36S	
<b>ROBINSON</b>						<b>TAYLORCRAFT</b>					
<b>R22</b>						<b>Deluxe BC12D</b>			REM37BY		
Lyclo O-320-B (160 hp)	8	RHM40E RHM38E	REM38E <b>REM40E</b>	RHM38S	REM38S	Cont A-65-8 (65 hp)	8	RHM40E	<b>REM40E</b>		
<b>R22</b>						<b>Sportsman 19</b>			REM37BY		
Lyclo O-320-A (150 hp)	8	RHM40E	<b>REM40E</b>	RHM38S	REM38S	Cont C-85-8 (85 hp)	8	RHM40E	<b>REM40E</b>		
<b>R44</b>						<b>F19</b>			REM37BY		
Lyclo O-540 (205 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S	Cont O-200-A (100 hp)	8	RHM40E	REM40E	<b>RHM38S</b>	
<b>SCHEUTZON</b>						<b>F21B, F22</b>			<b>REM37BY</b>		
<b>B</b>						Lyclo O-235-L2C (118 hp)	8	RHM40E RHM38E	REM38E REM40E	RHM38S	REM38S
Lyclo IVO-360-A (180 hp)	8	RHB37E		<b>RHB36S</b>		<b>Zephyr</b>					
<b>SCHWEIZER</b>						Cont O-470-J (225 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
<b>269A</b>						<b>Seabird</b>					
Lyclo O-360 (180 hp)						Cont O-470-J (225 hp)	12	RHM40E	<b>REM40E</b>	RHM38S	REM38S
HO-360-B (180 hp)	8	RHM40E RHM38E	REM40E <b>REM38E</b>			<b>VERTOL</b>					
<b>200</b>						<b>Workhorse 44</b>					
Lyclo HIO-360-B (180 hp)	8	RHM40E RHM38E	REM40E <b>REM38E</b>			Wright R-1820-103					
<b>300</b>						977C9HD1	18	<b>RHB37E</b>	REB37E	RHB36S	REB36S
Lyclo HIO-360-A (200 hp)	8	RHM38E	REM38E	RHM38S	<b>REM38S</b>						
<b>300C</b>											
Lyclo HIO-360-DIA (190 hp)	8	RHM38E	REM38E	RHM38S	<b>REM38S</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



## Spark Plug Application By Engine Manufacturer

Engine Model	Standard Massive Electrode Shielded		Unshielded	Fine Wire Electrode Shielded	
	5/8" - 24	3/4" - 20		5/8" - 24	3/4" - 20
<b>ALLISON "Non-PMA"</b> V1710	REB37E	RHB37E		REB36S	
<b>FRANKLIN ENGINE CO.</b>					
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>					
2500 D1/E1				REN30S	
<b>GYPSY MAJOR</b>	REL37B				
<b>JACOBS AIRCRAFT ENGINE CO.</b>					
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>	REM37BY*				
R-985 (Wasp Jr.), R-1340 (Wasp)	REM40E	RHM40E	M41E	REM38S	RHM38S
R-1830 (Twin Wasp C)	REB37E	RHB37E		REB36S	RHB36S
+ For Severe Service	REB32E+	RHB32E+			RHB32S+
R-2000 (Twin Wasp D)	REB37E	RHB37E		REB36S	RHB36S
R-2800 (Double Wasp) R-2800-97	REB37E	RHB37E			RHB36S
CA3, CA5, CA15, CA17, CA18, CA19	REB32E	RHB32E		REB36S	RHB32S
++ Rear position front row only		RHB29E++			
R-4360 (Wasp Major)	REB37E	RHB37E		REB36S	RHB36S
<b>PEZETEL (WSK)</b>					
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 "Non-PMA"</b>					RHL27S RHL28S
<b>RUSSIAN ENGINES M14 Most Series "Non-PMA"</b>	REL37B				
<b>TELEDYNE CONTINENTAL MOTORS</b>	REM37BY*				
A-65, A-75	REM40E	RHM40E	M41E	REM38S	RHM38S
C75, C-85, C-90, C-115, C-125	REM37BY*				
	REM40E	RHM40E	M41E	REM38S	RHM38S
E-165, E-185, E-225	REM40E	RHM40E	M41E	REM38S	RHM38S
E-165, E-185, E-225 (14mm Bushing)	REJ38				

\* Use REM37BY when encountering lead fouling.

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 Shielded		Unshielded	Fine Wire Electrode 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	REM37BY* REM40E	RHM40E	M41E	REM38S	RHB36S RHM38S
IO-240	REM38E	RHM38E		REM38S	RHM38S
GO-300-A, -B, -C, -D, -E, -F O-300-A, -B, -C, -D, -E, C-145	REM37BY* REM40E REM38E	RHM40E RHM38E	M41E	REM38S	RHM38S
IO-346-A, -B	REM40E REM38E	RHM40E 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 O-470-T, -U	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S RHB32S
IO-470-C, -G, -P, -R, -T	REM40E REM38E	RHM40E 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 RHB32S
GIO-470-A		RHB32E			RHB36S RHB32S
LIO-470-A	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
TSIO-470-B, -C, -D		RHB32E			RHB36S RHB32S
IO-520-A, -B, -BA, -BB, -C, -CB, -D, -E, -F, -J, -K, -L, -M, -MB, -N, -NB 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 LTSIO-520-AE		RHB32E			RHB36S RHB32S RHB32S RHB36S
GTSIO-520-C, -D, -E, -F, -G, -H, -K, -L, -M, -N TSIO-550-A, -B, -C,		RHB32E RHB32E			RHB36S RHB36S
IO-550-A, -B, -C, -D, -E, -F, -G, -L, -N, -P, -R TSIO-550-A, -B		RHB32E RHU32E			RHB36S RHB32S 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 O-235-F, -G, -J	REM40E REM38E REM37BY*	RHM40E	M41E	REM38S	RHM38S
O-235-K, -L, -M, -N, -P O-290 Series	REM40E REM38E REM37BY*	RHM40E RHM38E		REM38S	RHM38S
O-320-A, -C, -E O-320-B, -D, -H AIO-320, LIO-320-B, IO-320-B, -C, -D, AEIO-320-A, -B, -C, -D	REM37BY* REM40E REM38E	RHM40E	M41E	REM38S	RHM38S

\* Use REM37BY when encountering lead fouling.

# 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)					
IO-320-A, -D, -E	REM37BY* REM40E	RHM38E		REM38S	RHM38S
AEIO-320-E	REM37BY* REB37E	RHM40E RHB37E		REM38S REB36S	RHM38S RHB36S
	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
O-340-A	REM40E	RHM40E		REM38S	RHM38S
O-340-B	REM40E	RHM40E		REM38S	RHM38S
O-360-A, -C, -E, -F					
IO-360-B, -E, -F, -H, -L	REM38E REM37BY*	RHM40E RHM38E		REM38S	RHM38S
AEIO-360-B, -C, -H, HO-360-A					
	REM40E REM37BY*	RHM40E		REM38S	RHM38S
O-360-B, -D	REM38E REM37BY*	RHM38E		REM38S	RHM38S
IO-360-A, -C, -D, -J, LIO-360-E	REM40E REM38E REM37BY*	RHM40E RHM38E		REM38S	RHM38S
LO-360-A1G6D, O-360-E1A6D					
LO-360-E1A6D					
LO-360-C					
IO-360-A, IO-360-C1F					
IO-360-F (Long Reach)					
IVO-360	REB37E	RHB37E		REB36S	RHB36S
AIO-360-A,	REM38E REM37BY*	RHM38E		REM38S	RHM38S
LIO-360-C, AEIO-360-A	REM38E	RHM38E		REM38S	RHM38S
HIO-360-A, -D	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
HO-360-B, HIO-360-A, -B	REB37E	RHB37E		REB36S	RHB36S
TIO-360-A, -B, AEIO-360-A (Long Reach)					
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
VO-360-A, -B	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
O-435-A, -C	REM40E REM38E	RHM40E		REM38S	RHM38S
O-435-K, K1	REM40E REM38E	RHM40E 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 REB32E	RHB37E RHB32E		REB36S	RHB36S RHB32S
O-435-23-25	REM40E REM38E	RHM40E RHM38E		REM38S	RHM38S
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.



# Spark Plugs

## Spark Plug Application By Engine Manufacturer

Engine Model	Standard Massive Electrode Shielded		Unshielded	Fine Wire Electrode Shielded	
	5/8" - 24	3/4" - 20		5/8" - 24	3/4" - 20
<b>TEXTRON LYCOMING (Cont'd)</b>	REM40E	RHM40E			
O-540-A, -D, -E, -F, -G, -H, -J, -J3A5	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, Inc. 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>			Havoc A20G	2/Wright R-2600-23	28
LA, LB	LeBlond (70 hp), (85 hp)	10	DC-2	Wright SGR-1820, F3, F52, 25	18
LC	Warner Scarab Jr. 50	10	Skytrain DC-3, C49	2/Wright R-1820-G102, G202A	18
KC	Cont A-40	8	DC-3A, C47, C53, C112	2/P & W R-1830-90, -92, -94	28
50-C	Cont A-50	8	Skymaster DC-4	4/P & W R-2000	28
50-F	Franklin 4AC-150	8	Liftmaster DC-6	4/P & W R-2800-CB16, -17	36
59-L	Lyco O-145	8	DC-7	4/Wright R-3350 Compound	36
60-TF	Cont A-65	8	<b>DOWNER</b>		
65-LA	Lyco O-145	8	14-19	Lyco O-435-A	12
O-58B	Cont O-170-3 (Equiv. A65)	8	14-19-2	Cont O-470-K	12
Champion L-16B	Cont A-65-8	8	14-19-3	Cont IO-470-F	12
<b>AIRCRAFT MFG. COMPANY</b>			260B	Cont IO-470-F	12
Texas Bullet 205	Cont E-185-1	12	Viking 300	Cont IO-520-D	12
<b>ALON, INC.</b>			<b>DOYN AIRCRAFT</b>		
A-2	Cont C-90-16F	8	Cessna 150 Modified	Lyco O-320	8
A-4	Lyco O-320-A	8	Cessna 177 Modified	Lyco O-360	8
<b>ANDERSON-GREENWOOD</b>			<b>FLETCHER</b>		
AG-5	Cont C-90	8	Utility FU-24	Cont O-470-E, N	12
<b>BAUMANN</b>			FU-24A	Cont IO-470-D	12
Brigadier B-290	Cont C-145-2	12	FU-24B	Cont GIO-470-A	12
Deluxe Brigadier B-360	2/Lyco O-360	8	Stanley	Cont V-1430	24
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



# 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>MONOCOUE</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			



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

# 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 ( <i>Equiv. O-435-K, -K1</i> )	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			



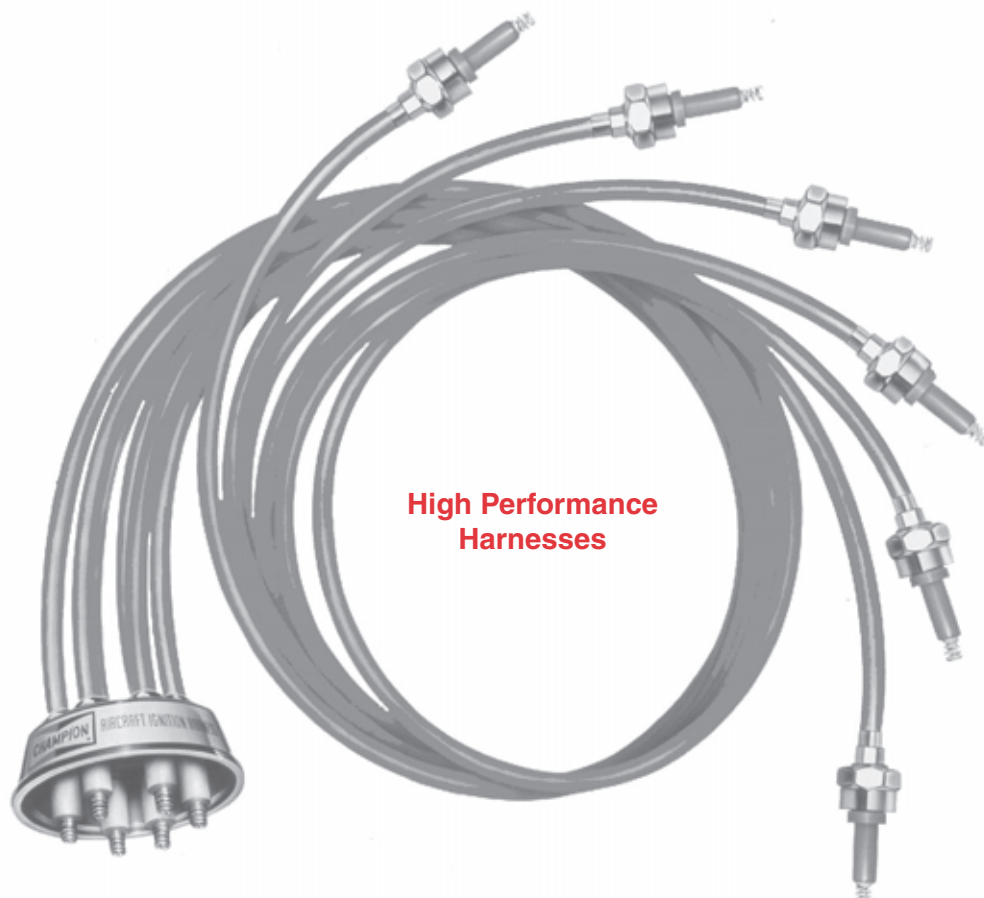
# Spark Plugs

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>ANDEREAASSON</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>SIAI-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			

## Product Features

# Harnesses



**High Performance  
Harnesses**

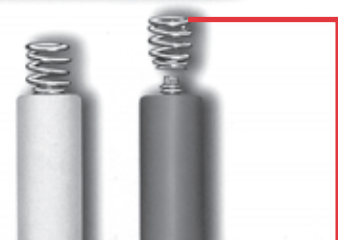
Heat-resistant red, polymer, coating has been specifically engineered for high-temperature, reciprocating engine environments.

Competitive leads have a positive-pitch spring (the coil tip extends outward). The tip on Champion's spring coils inward. This negative-pitch design lets the spring lie flush against the spark plug contact. Energy is delivered more efficiently to the plug with less flashover.

Champion's 5mm conductor contains seven separate strands of stainless-steel wire.

Flexible, copper-tin, nickel-plated braid greatly reduces EMI.

Champion's Performance-proven leads are offered in straight or plated-steel, elbowed configurations for easy installation.



Replaceable Champion spring saves you time and money.





# Harnesses

## Aircraft Engine Applications

Engine Model		Magneto	Spark Plug Terminations	
		Type	5/8x24	3/4x20
Franklin Engines				
FRK	6A-150-B3, -B31, -B4	BX S6-20, 200	CH12772	CH12769
FRK	6A-165-B3, -B4	BX S6-20, 200	CH12772	CH12769
FRK	6A-335-A, -A1A, -A1B, -B1, -B	BX S6-20, 200	CH12772	CH12769
FRK	6A-350-C1, -C1A, -C2, -C2A, -D1, -D1A, -D1B	BX S6-20, 200	CH12772	CH12769
FRK	6AS-335-A, -B	BX S6-20, 200	CH12772	CH12769
FRK	6AS-350-A, -A1	BX S6-20, 200	CH12772	CH12769
FRK	6V4-200-C32, -C33	BX S6-20, 200	CH12772	CH12769
FRK	6A4-150-B3, -B4, -B31	Eisemann LA-6	CH17001	CH17002
FRK	6A4-165-B3, -B4	Eisemann LA-6	CH17001	CH17002
Textron Lycoming Engines				
O-235	-C1, -C1A, -C1B, -C1C, -C2A, -C2C, -E1, -E1B, -E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A, -H2C, -J2A, -K2A, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C, -C2B, -E2B, -F2B, -G2B, -J2B, -K2B	BXS4-20, 200	CH12364	CH12360
O-235		BX S4-1200	CH12365	CH12235
O-235	-C1, -C1A, -C1B, -C1C, -C2A, -C2C, -E1, -E1B, -E2A, -F1, -F1B, -F2A, -G1, -G1B, -G2A, -H2C, -J2A, -K2A, -K2C, -L2A, -L2C, -M1, -M2C, -M3C, -N2A, -N2C, -P1, -P2A, -P2C, -P3C			
O-235	-C1, -C1B, -C2A, -C2B, -L2C	SL 4000	CH14001*	CH12508
O-235		SL 4000	CH14004*	
O-290	-D, -D2, -D2A, -D2B, -D2CBX	S4-20, 200	CH12364	CH12360
O-290	-D2, -D2BBX	S4-1200	CH12365	CH12235
O-290	-D, -D2, -D2B, -D2CBX	S4-1200	CH12420	
O-290	-D, -D2, -D2A, -D2B, -D2C	SL 4000	CH14001*	CH12508
O-290	-D, -D2, -D2B, -D2C	SL 4000	CH14004*	
AEIO-320	-E1A, -E1B, -E2A, -E2BBX	S4-20, 200	CH12364	CH12360
AEIO-320	-D1B, -D2BBX	S4-1200	CH12365	CH12235
AEIO-320	-E1A, -E1B, -E2A, -E2B	SL 4000	CH14001*	CH12508
AIO-320	-A1A, -A1B, -A2A, -A2B, -B1B, -C1B	BX S4-1200	CH12365	CH12235
IO-320	-B1A, -B2A, -C1ABX	S4-20, 200	CH12112	
IO-320	-A1A, -A2A, -B1A, -B1B, -B1C, -B2A, -C1A, -C1B, -E1A, -E1B, -E2A, -E2B, -F1A, -B1D, -B1E, -D1A, -D1B, -D1C	BX S4-20, 200	CH12364	CH12360
IO-320		BX S4-1200	CH12365	CH12235
IO-320	-E2A	BX S4-1200	CH12420	
IO-320	-A1A, -A2A, -B1A, -B1B, -B1C, -B1D, -B2A, -C1A, -C1B, -E1A, -E1B, -E2A, -E2B, -F1A	SL 4000	CH14001*	CH12508
IO-320	-E2A	SL 4000	CH14004*	
LIO-320	-B1A, -C1A	BX S4-20, 200	CH12112	
LIO-320	-B1A, -C1A	BX S4-20, 200	CH12364	CH12360
LIO-320	-B1A, -C1A	SL 4000	CH14001*	CH12508
O-320	-B1A, -B1B, -B2B, -B3A, -B3B	BX S4-20, 200	CH12112	
O-320	-A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, -B3C, -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1D, -D2A, -D2B, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E2A, -E2B, -E2D, -E2G, -E2H, -E3D, -E3H			
O-320		BX S4-20, 200	CH12364	CH12360
O-320	-D1C, -D1F, -D2C, -D2F, -E1C, -E1F, -D1J, -D2C, -D2F	BX S4-1200	CH12365	CH12235
O-320	-A2A, -A2B, -A2C, -A3A, -A3B, -A3C, -B3C, -D1A, -D2A, -D2B, -E2B	BX S4-1200	CH12420	
O-320	-A1A, -A1B, -A2A, -A2B, -A2C, -A2D, -A3A, -A3B, -A3C, -B1A, -B1B, -B2A, -B2B, -B2C, -B3A, -B3B, -B3C, -C1A, -C1B, -C2A, -C2B, -C2C, -C3A, -C3B, -C3C, -D1A, -D1B, -D1D, -D2A, -D2B, -D2G, -D2H, -D2J, -D3G, -E1A, -E1B, -E2A, -E2B, -E2D, -E2G, -E2H, -E3D, -E3H			
O-320		SL 4000	CH14001*	CH12508
O-320	-A2A, -A2B, -A2C, -A3A, -A3B, -A3C, -B3C, -D1A, -D2A, -D2B, -E1A, -E2B	SL 4000	CH14004*	
O-340	-A1A, -A2A, -B1A	BX S4-20, 200	CH12364	CH12360
O-340	-A1A, -A2A	BX S4-1200	CH12420	
O-340	-A1A, -A2A, -B1A	SL 4000	CH14001*	CH12508
O-340	-A1A, -A2A	SL 4000	CH14004*	
AEIO-360	-A1A, -A1C, -A1E, -A2A, -B1B, -B4A, -H1A	BX S4-20, 200	CH12364	CH12360
AEIO-360	-A1B, -A1B6, -A2B, -B1F, -B1F6, -B1G6, -B2F	BX S4-1200	CH12365	CH12235
AEIO-360	-A1A, -A1D, -A1E, -A2A, -B1B, -C1A	SL 4000	CH14001*	CH12508
AIO-360	-A1A, -A1B, -A2A, -A2B, -B1B	BX S4-1200	CH12365	CH12235
HIO-360	-A1A, -B1A, -B1B, -C1A,	BX S4-20, 200	CH12364	CH12360
HIO-360	-C1B, -D1A	BX S4-1200	CH12365	CH12235

\* CH14001 and CH14002 - Standard Harness Assemblies - Left Magneto Firing Top #1 Spark Plug.

\* CH14004 - Non-Standard Assembly - Alternate Firing Sequence With Right Magneto Firing Top #1 Spark Plug.

All Champion Aerospace Harnesses are available with elbowed terminations. Part numbers for elbowed harnesses are the same as above with addition of an "E" suffix.  
E = Elbow Connector BX = TCM/Bendix SL = Slick



## Aircraft Engine Applications

Engine Model		Magneto Type	Spark Plug Terminations	
Textron Lycoming Engines (Cont'd)			5/8x24	3/4x20
HIO-360	-A1A, -B1A, -B1B, -C1A	SL 4000	CH14001*	CH12508
HIO-360	-CB1, -D1A	BX S4-1200	CH12411	CH12235
HIO-360	-B1A	BX S4-1200	CH12420	
HIO-360	-D1A	BX S4-1200	CH12655	
HIO-360	-B1A	SL4000	CH14004*	
HO-360	-A1A, -B1A, -B1B	BX S4-20, 200	CH12364	
HO-360	-A1A	BX S4-1200	CH12420	
HO-360	-A1A, -B1A, -B1B	SL4000	CH14001*	CH12508
HO-360	-A1A	SL4000	CH14004*	
IO-360	-A1B, -A1B6, -A1C, -A1D6, -A2B, -A2C, -B1E, -B1F, -B2F, -B2F6, -C-1B, -C1C, -C1C6, -D1A, -F1A	BX S4-1200	CH12365	CH12235
IO-360	-B1A, -B1B, -B1D, -B4A	BX S4-1200	CH12420	
IO-360	-C1E6	SL4000	CH12423	
IO-360	-C1E6	BX S4-1200		CH12616
IO-360	-A1A, -A1D, -A2A, -B1A, -B1B, -B1C, -B1D, -B4A, -C1A, -K2A	SL4000	CH14001*	CH12508
IO-360	-A1C, -A2B, -A2C, -B2E, -C1B, -C1C, -C1C6, -D1A,	SL4000	CH14002*	
IO-360	-B1A, -B1B, -B1D, -B4A	SL4000	CH14004*	
O-360	-A1A, -A1C, -A1D, -A1H, -A1NG, -A2A, -A2D, -A2E, -A2H, -A3A, -A3D, -A4A, -A4D, -A4J, -A4K, -A4M, -A4N, -B1A, -B1B, -B2A, -B2B, -C1A, -C1C, -C1E, -C1G, -C2A, -C2B, -C2C, -C2D, -D2E, -D1A, -D2A, -D2B, -F1A6, -G1A6,	BX S4-20, 200 BX S4-20, 200	CH12364	CH12360
IVO-360	-A1A		CH12364	CH12360
IVO-360	-A1A	SL 4000	CH14001*	CH12508
IVO-360	-A1A	BX S4-20, 200		CH14033
LIO-360	-A1F, A1F6, -A1G, -A1G6, -A2F, -A2G, -A1G6, -A2F, -A2G, -A4G, -C1F	BX S4-1200	CH12365	CH12235
LIO-360	-C1E6	SL 4000	CH12423	
LIO-360	-C1E6	BX S4-1200		CH12616
O-360	-A1A, -A1C, -A1D, -A1H, -A1NG, -A2A, -A2D, -A2E, -A2H, -A3A, -A3D, -A4A, -A4D, -A4J, -A4K, -A4M, -A4N, -B1A, -B1B, -B2A, -B2B, -C1A, C1C, -C1E, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -D1A, -D2A, -D2B, -F1A6, -G1A6	BX S4-20, 200	CH12364	CH12360
O-360	-A1A, -A1C, -A1D, -A1H, -A1NG, -A2A, -A2D, -A2E, -A2H, -A3A, -A3D, -A4A, -A4D, -A4J, -A4K, -A4M, -A4N, -B1A, -B1B, -B2A, -C1A, -C1C, -C1E, -C1G, -C2A, -C2B, -C2C, -C2D, -C2E, -D1A, -D2A, -D2B, -F1A6, -G1A6	SL4000	CH14001*	CH12508
O-360	-A1A, -A1D, -A2A, -A2D, -D2A, -D2B	BX S4-1200	CH12420	
O-360	-A1A, -A1D, -A2A, -A2D, -D2A, -D2B	SL 4000	CH14004	
VO-360	-A1A, -A1B, -B1A	BX S4-20, 200	CH12364	CH12360
VO-360	-A1A, -A1B, -B1A	SL 4000	CH14001*	CH12508
VO-360	-A1A, -A1B, -B1A	BX S4-20, 200		CH14033
GO-435	-C2A2, -C2B2, -C2B2-6	BX S6-20, 200	CH12474	CH12682
TVO-435	-B1A, -A1A, -D1B, -G1B	BX S6-20, 200	CH12471	CH12480
TVO-435	-B1A, -A1A, -D1B, -G1B	BX S6-1200	CH12709	CH12447
TVO-435	-F1A	BX S6-20, 200	CH12712	CH12865
VO-435	-A1D, -A1E, -A1F, -B1B, -B1B3	BX S6-20, 200	CH12471	CH12480
VO-435	-A1D, -A1E, -A1F, -B1B, -B1B3	BX S6-1200	CH12709	CH12447
VO-435	-B1A	BX S6-20, 200	CH12712	CH12865
GO-480	-G1J6	BX S6-1200	CH12742	CH12489
GO-480	-B1J6	BX S6-1200	CH12745	CH12486
GSO-480	-B1A6, -B1C6, -B1F6, -B1G6, -B1B6, -B1E6, -B2C6, -B2D6, -B2G6, -B2H6	BX S6-20, 200	CH12854	CH12280
IGSO-480	-A, -A1A6, -B1B6	BX S6-20, 200	CH12244	CH12247
AEIO-540	-D4A5	BX S6-20, 200	CH12121	CH12120
AEIO-540	-D4A5	BX S6-1200	CH12154	CH12157
IGSO-540	-A1D, -A1E, -A1F, -B1C	BX S6-1200	CH12259	CH12256
IGSO-480	-A1D6, -A1E6	BX S6-20, 200	CH12854	CH12280
IGSO-540	-A1D6, -A1E6	BX S6-20, 200	CH12854	CH12280
IO-540	-A1A5, -B1A5, -B1B5, -B1C5, -C1B5, -C1C5, -C2C, -C4B5, -D4A5, -E1A5, -G1A5, -K1C5, -K1D5, -N1A5	BX S6-20, 200	CH12121	CH12120
IO-540	-A1A5, -B1A5, -B1B5, -B1C5, -C1B5, -C1C5, -C2C, -C4B5, -D4A5, -K1C5, -K1D5, -N1A5, -E1A5, -G1A5	BX S6-1200	CH12154	CH12157
IO-540	-C4B5	BX S6-1200	CH12154	
IO-540	-A1A	BX S6-20, 200	CH12831	
IO-540	-All	BX S6-20, 200		CH12483

\* CH14001 and CH14002 - Standard Harness Assemblies - Left Magneto Firing Top #1 Spark Plug.

\* CH14004 - Non-Standard Assembly - Alternate Firing Sequence With Right Magneto Firing Top #1 Spark Plug.

All Champion Aerospace Harnesses are available with elbowed terminations. Part numbers for elbowed harnesses are the same as above with addition of an "E" suffix.  
E = Elbow Connector      BX = TCM/Bendix      SL = Slick



# Harnesses

## Aircraft Engine Applications

Engine Model		Magneto	Spark Plug Terminations	
		Type	5/8x24	3/4x20
<b>Textron Lycoming Engines (Cont'd)</b>				
O-540	-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A2D, -A3D5, -A2B, -A2D, -A3D5, -A4A5, -A4B5, -A4C5, -A4D5, -B1A5, -B1B5, -B2A5, -B2B5, -B4A5, -B4B5, -D1A5, -E4A5, -E4B5, -F1A5, -F1B5, -H1A5, -H2A5	BX S6-20, 200	CH12121	CH12120
O-540	-A1A, -A1A5, -A1B5, -A1C5, -A1D, -A1D5, -A2B, -A2D, -A3D5, -A4A5, -A4B5, -A4C5, -A4D5, -B1A5, -B1B5, -B2A5, -B2B5, -B4A5, -B4B5, -D1A5, -E4A5, -E4B5, -F1A5, -F1B5, -H1A5, -H2A5	BX S6-1200	CH12154	CH12157
TIO-540	-C1A	BX S6-1200	CH12154	
TIO-540	-C1A	BX S6-1200	CH12790	
TIO-540	-A1A, -A1B, -A2A, -A2B	BX S6-1200		CH12037
TIO-540	-C1A	BX S6-1200		CH12157
TIO-540	-C1A	BX S6-1200		CH12851
TVIO-540	-A2A	BX S6-20, 200	CH12471	CH12480
TVIO-540	-A2A	BX S6-1200	CH12709	CH12447
VO-540	-A1A, -B1A, -B1B, -B1D, -B2D, -C1C3	BX S6-20, 200	CH12471	CH12480
VO-540	-A1A, -B1A, -B1B, -B1D, -B2D, -C1C3	BX S6-1200	CH12709	CH12447
VO-540	-B1B, -B1C, -B1F, -B2A, -C1A, -C1B, -C2A, -C2B, -C1C3	BX S6-20, 200	CH12831	CH12483
TIGO-541	-E1A	BX S6-1200	CH12890	
TIO-541	-E1A4, -E1B4, -E1E4, -E1D4, -E1C4	BX S6-1200		CH12628
IO-720	-A1B, -B1B	BX S8-1200	CH17013	CH17012

\* CH14001 and CH14002 - Standard Harness Assemblies - Left Magneto Firing Top #1 Spark Plug.

\* CH14004 - Non-Standard Assembly - Alternate Firing Sequence With Right Magneto Firing Top #1 Spark Plug.

Engine Model		Magneto	Spark Plug Terminations	
		Type	5/8x24	3/4x20
Teledyne Continental Engines				
A-50	All	BX S4-20, 200	CH12351	CH17003
A-50	All	SL 400	CH17005	CH17004
A-65	All	BX S4-20, 200	CH12351	CH17003
A-65	All	SL 400	CH17005	CH17004
A-75	All	BX S4-20, 200	CH12351	CH17003
A-75	All	SL 400	CH17005	CH17004
A-80	All	BX S4-20, 200	CH12351	CH17003
A-80	All	SL 400	CH17005	CH17004
C-75	-12, -15	SL 4000	CH11780	CH17011
C-75	-12, -15	BX S4-20, 200	CH12007	
C-75	All	BX S4-20, 200	CH12351	CH17003
C-75	All	SL 400	CH17005	CH17004
C-75	-12, -15	Eisemann LA-4	CH17008	CH17007
C-75	-12, -15	SL 400	CH17010	CH1700
C-75	-12, -15	BX S4-20, 200	N/A	CH17006
C-85	-12, -12FJ, -14, -15	SL 4000	CH11780	CH17011
C-85	-12, -12FJ, -14, -15	BX S4-20, 200	CH12007	
C-85	-12, -12FJ, -14, -15	Eisemann LA-4	CH17008	CH17007
C-85	-12, -12FJ, -14, -15	SL 400	CH17010	CH17009
C-85	-12, -12FJ, -14, -15	BX S4-20, 200	N/A	CH17006
C-90	-12, -14, -16, -16F	SL 4000	CH11780	CH17011
C-90	-12, -14, -16, -16F	BX S4-20, 200	CH12007	
C-90	-12, -14, -16, -16F	Eisemann LA-4	CH17008	CH17007
C-90	-12, -14, -16, -16F	SL 400	CH17010	CH17009
C-90	-12, -14, -16, -16F	BX S4-20, 200	N/A	CH17006
C-125	-2, -2H	BX S6-20, 200	CH12130	CH12336
C-125	All	SL 6000	CH12932	CH12935
C-145	-2, -2H	BX S6-20, 200	CH12130	CH12336
C-145	All	SL 6000	CH12932	CH12935
E-165	-2, -3, 4	BX S6-20, 200	CH12176	CH12339
E-185	-1, -2, -3, -5, -8, -9, -10, -11	BX S6-20, 200	CH12176	CH12339
O-200	-A, -B, -C,	SL 4000	CH11780	CH17011
O-200	-A, -B, -C,	BX S4-20, 200	CH12007	

All Champion Aerospace Harnesses are available with elbowed terminations. Part numbers for elbowed harnesses are the same as above with addition of an "E" suffix.  
E = Elbow Connector      BX = TCM/Bendix      SL = Slick

## Aircraft Engine Applications

Engine Model		Magneto	Spark Plug Terminations	
		Type	5/8x24	3/4x20
Teledyne Continental Engines (Cont'd)				
O-200	-A, -B, -C,	Eisemann LA-4	CH17008	CH17007
O-200	-A, -B, -C,	SL 400	CH17010	CH17009
O-200	-A, -B, -C,	BX S4-20, 200	N/A	CH17006
E-225	-2, -4, -8, -9	BX S6-20, 200	CH12176	CH12339
GO-300	-C, -E	SL 600	CH12023	CH12342
O-300	-A, -B, -C, -D, -E	SL 600	CH11884	CH12318
O-300	-A, -B, -C, -D, -E	BX S6-20, 200	CH12130	CH12336
O-300	-A, -B, -C, -D, -E	SL 6000	CH12932	CH12935
IO-346	-A, -B	BX S4-20, 200	CH12332	
IO-360	-A, -B, -C, -D, -E, -G	BX S6-1200	CH12046	
IO-360	-A, -C, -CB, -D, -DB, -G, -GB, -H, -HB, -J, -JB, -K, -KB	BX S6-20, 200	CH12015	
IO-360	-C, -D, -G	SL 6000	CH12778	
LTSIO-360	-E, -EB, -KB	BX S6-20, 200	CH12015	
TSIO-360	-A, -AB, -B, -C, -CB, -D, -DB, -E, -EB, -F, -FB, -GB, -H, -HB, -JB, -KB, -LB, -MB	BX S6-20, 200	CH12015	
TSIO-360	-A, -B	SL 6000	CH12778	
GIO-470	-A	BX S6-20, 200	CH11978	CH11730
IO-470	-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO	SL 600	CH11878	CH11480
IO-470	-C, -D, -E, -F, -G, -H, -L, -M, -N, -P, -R, -S, -U, -V	BX S6-20, 200	CH11978	CH11730
IO-470	-A, -C, -D, -E, -F, -G, -H, -J, -K, -L, -LO, -M, -N, -P, -R, -S, -T, -U, -V, -VO	SL 6000	CH12828	CH12381
IO-470	-F, -J, -K, -L, -N, -S	BX S6-1200	N/A	CH11740
IO-470	-F, -J, -K, -N, -S	BX S6-1200	CH12216	
IO-470	-F, -J, -K, -N, -S	SL 6000		CH12779
O-470	-A, -B, -B-C1, -C, -E, -G, -G-C1, -H, -J, -K, -K-C1, -L, -L-C1, -M, -M -C1, -N, -P, -R, -S, -U	SL 600	CH11878	CH11480
O-470	-A, -B, -E, -M, -P, -R	BX S6-20, 200	CH11978	CH11730
O-470	-A, -B, -B-C1, -C, -E, -G, -G-C1, -H, -J, -K, -K-C1, -L, -L-C1, M, -M -C1, -N, -P, -R, -S, -U	SL 6000	CH12828	CH12381
O-470	-R, -S, -U	BX S6-1200	N/A	CH11740
O-470	-R, -S, -U	BX S6-1200	CH12216	
O-470	-F, -J, -K, -L, -N, -R, -S, -U	SL 6000		CH12779
TSIO-470	-B, -C, -D, -E,	BX S6-20, 200	CH11978	CH11730
GTSIO-520	-C, -D, -F, -H, -K, -L, -M, -N	BX S6-1200	CH11950	
GTSIO-520	-C, -D, -F, -H	BX S6-20, 200	CH12100	
IO-520	-A, -B, -BA, -BB, -C, -CB, -D, -E, -G, -H, -J, -K, -L, -M, -MB, -N, -NB	SL 600	CH11878	CH11480
IO-520	-B, -BB, -E	BX S6-20, 200	CH11978	CH11730
IO-520	-A, -B, -BA, -BB, -C, -CB, -D, -E, -G, -H, -J, -K, -L, -M, -MB, -NB	SL 6000	CH12828	CH12381
IO-520	-A, -BA, -BB, -C, -CB, -D, -F, -J, -K, -L	BX S6-1200	N/A	CH11740
IO-520	-A, -BA, -BB, -C, -CB, -D, -F, -J, -K, -L	BX S6-1200	CH12216	
IO-520	-A, -B, -BA, -BB, -C, -CB, -D, -F, -J, -K, -L	SL 6000		CH12779
LTSIO-520	-AE	BX S6-1200	N/A	CH11740
LTSIO-520	-AE	BX S6-1200	CH12216	
LTSIO-520	-AE	SL 6000		CH12779
TSIO-520	-A, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -F, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB	SL 600	CH11878	CH11480
TSIO-520	-A, -B, -BB, -BE, -C, -CE, -D, -DB, -E, -EB, -F, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -VB, -WB	SL 6000	CH12828	CH12381
TSIO-520	-AE, -AF, -B, -C, -D, -DB, -E, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -WB	BX S6-1200	N/A	CH11740
TSIO-520	-AE, -AF, -C, -D, -DB, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -WB	BX S6-1200	CH12216	
TSIO-520	-AE, -AF, -B, -C, -D, -DB, -E, -G, -H, -J, -JB, -K, -KB, -L, -LB, -M, -N, -NB, -P, -R, -T, -UB, -WB	SL 6000		CH12779
IO-550	-A, -F	BX S6-20, 200	CH11978	CH11730
IO-550	-A, -B, -C, -D	SL 6000	CH12828	CH12381
IO-550	-B, -C, -D, -E, -L	BX S6-1200	N/A	CH11740
IO-550	-B, -C, -D, -E, -L	BX S6-1200	CH12216	
IO-550	-B, -C, -D, -E, -L	SL 6000		CH12779
TSIOL-550	-B	BX S6-1200	N/A	CH11740
TSIOL-550	-B	BX S6-1200	CH12216	
TSIOL-550	-B	SL 6000		CH12779

All Champion Aerospace Harnesses are available with elbowed terminations. Part numbers for elbowed harnesses are the same as above with addition of an "E" suffix.

E = Elbow Connector

BX = TCM/Bendix

SL = Slick



## Termination Kits

Part Number	Description
CH1K006	3/4" x 20 Straight Connectors
1-CHIP001	Nut - 3/4"
1-CHIP044	Spring - Large
1-CHIP006	Adapter
1-CHIP017	Insulator
1-CHIP014	Ferrule
1-CHIP022	Receptacle
1-CHIP002	Spring & Eyelet Assembly
1-CHIP004	Stud
CH1K006E	
1-CHIP005	Insulator
1-CHIP002	Spring & Eyelet Assembly
1-CHIP006	Retainer
CH1K007	5/8" x 24 Straight Connectors
1-CHIP019	Nut - 5/8"
1-CHIP021	Insulator
1-CHIP014	Ferrule
1-CHIP016	Receptacle
1-CHIP002	Spring & Eyelet Assembly
1-CHIP004	Stud
CH1K007E	
1-CHIP008	Insulator
1-CHIP002	Spring & Eyelet Assembly

**72" Lead Replacement Kit\***

Part Number	Description
CH1K003	3/4" x 20 Straight Connector
CH1K003E	3/4" x 20 Elbow Connectors
CH1K004	5/8" x 24 Straight Connectors
CH1K004E	5/8" x 24 Elbow Connectors

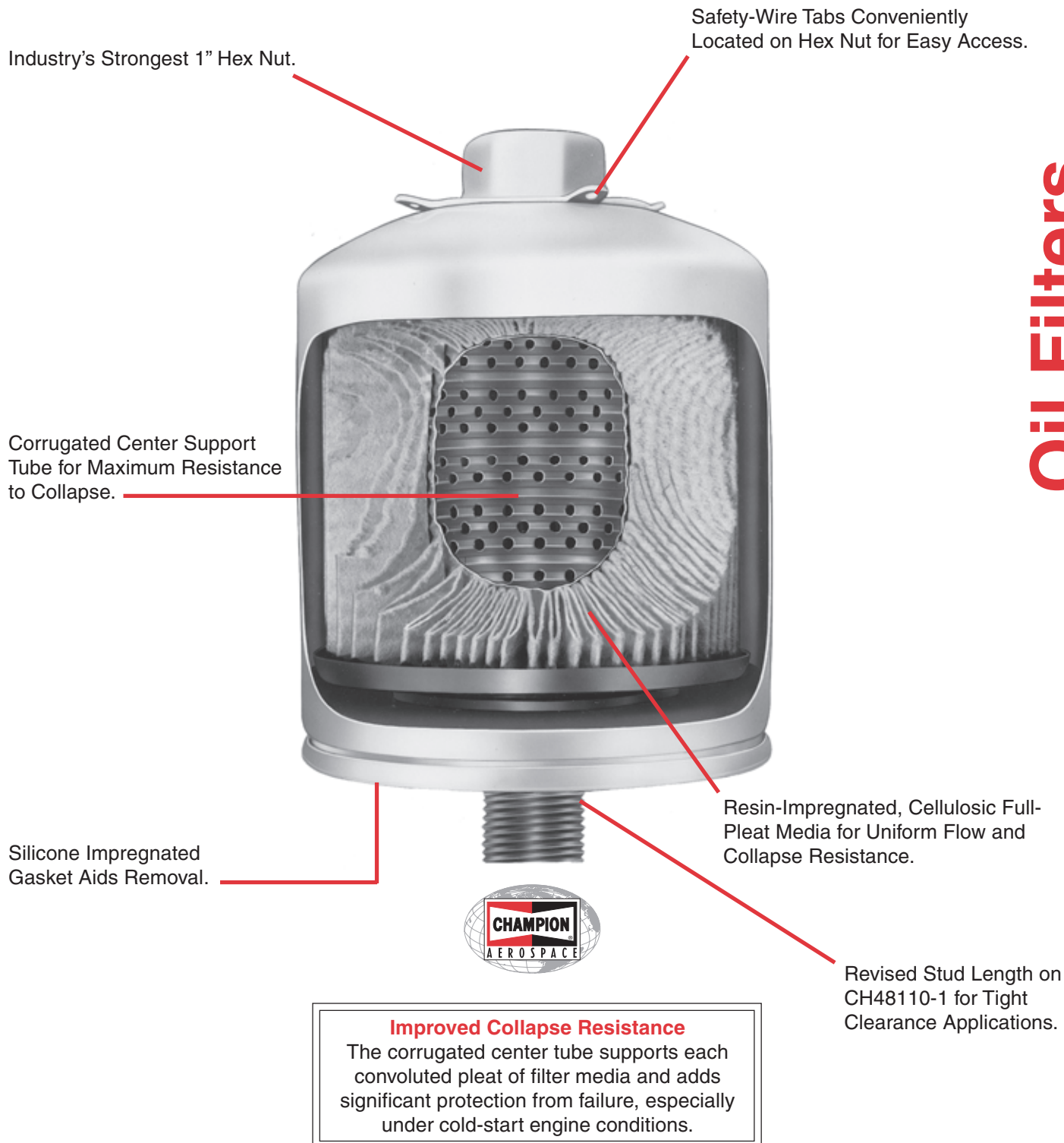
\* Each Package Contains (1) 72" Lead Assembly & (1) Lead Adaptor Kit, for Slick or Bendix Mags  
See Champion Aerospace Sales Bulletin 01-3 for Complete Listing of Harness Spare Parts.

### Notes:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



## Product Features



# Oil Filters

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
TCM	633324	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.



## Full-Flow Spin-On Filters

### For Lycoming and Continental Engines



CH48212  
Converter Stud

CH48210  
Converter Plate

CH48211  
Converter Gasket

**CH48922 (54E23093)  
Spin-On Oil Filter Converter Kit**

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>BELLANCA</b>			
TB9 Tampico	O-320-D2A	CH48110-1	CFO-100-1	17-31A, 17-31ATC	IO-540-K	CH48110-1	CFO-100-1
TB10 Tobago	O-360-A1AD	CH48110-1	CFO-100-1	17-31A Viking	IO-540-K	CH48110-1	CFO-100-1
TB20 Trinidad	IO-540-C4D5D	CH48110-1	CFO-100-1	17-31A Viking	IO-520-D	—	CFO-100-1
TB21 Trinidad TC	TIO-540-AB1AD	CH48110-1	CFO-100-1	17-31ATC Turbo	TIO-540	CH48110-1	CFO-100-1
TB30	AEIO-540-L1B5D	CH48110-1	CFO-100-1				
<b>AEROSTAR (See Piper)</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.			
<b>AMERICAN GENERAL AIRCRAFT CORP.</b>				<b>CESSNA (Single Engine Models)</b>			
AG5B Tiger	O-360-A4K	CH48110-1	CFO-100-1	150 A thru M	O-200	CH48110-1	CFO-100-1
<b>BEECH (Single Engine Models)</b>				F150 F thru M	O-200	CH48110-1	CFO-100-1
<b>BONANZA</b>				A150L	O-200	CH48110-1	CFO-100-1
E33A, F33A, F33B, F33C	IO-520	—	CFO-100-1	FA150	O-200	CH48110-1	CFO-100-1
E33A, F33A, F33B, F33C	IO-520B	CH48109-1	—	152	O-235-L2C, H2C	CH48110-1	—
G-33	IO-470N	CH48110-1	—	C-172			
H-35	O-470	CH48110-1	—	172 A thru H	O-300	CH48110-1	CFO-100-1
J, K, M-35	IO 470-C	CH48110-1	—	172 I thru M	O-320	CH48110-1	CFO-100-1
N, P-35	IO-470-N	CH48110-1	—	172N	O-320-H2AD	CH48103-1	—
S35, V35, V35A, V35B	IO-520	—	CFO-100-1	172P	O-320-D2J	CH48111-1	CFO-101-1
S35	IO-520B	CH48109-1	—	F172 D thru H	O-300	CH48110-1	CFO-100-1
V35TC, V35A-TC, V35B-TC	TSIO-520	—	CFO-100-1	FR172 E thru K	IO-360	CH48110-1	CFO-100-1
V35TC, V35A-TC, -V35B-TC	TSIO-520D	CH48109-1	—	R172K	IO-360-K	CH48108-1	—
V35, V35A, V35B	IO-520B	CH48109-1	—	172R	IO-360-L2A	CH48110-1	—
36, A36	IO-520B	CH48109-1	—	172RG	O-360-F1A6	CH48110-1	CFO-100-1
A36TC, B36TC	TSIO-520-UB	CH48109-1	—	172S	IO-360-L2A	CH48110-1	—
B36-550	IO-550	CH48109-1	—	177	O-320	CH48110-1	CFO-100-1
<b>DEBONAIR/BONANZA</b>				177A, B	O-360-A1F6D	CH48103-1	CFO-100-1
C33A, E33A, E33C	IO-520	—	CFO-100-1	177RG	IO-360-A1B6D	CH48103-1	CFO-100-1
C33A, E33A, F33C	IO-520B	CH48109-1	—	180 A thru J	O-470	CH48110-1	CFO-100-1
<b>MUSKETEER</b>				180Q	O-470-U++	CH48110-1	CFO-100-1
Sport III	O-320	CH48110-1	CFO-100-1	180-S/N 53087 & Up	1111O-470-U++	CH48108-1	—
23	O-320	CH48110-1	CFO-100-1	C-182			
A23-19, 19A, B19 Sport	O-320	CH48110-1	CFO-100-1	182 A Thru P	O-470	CH48110-1	CFO-100-1
A23, 23, A23A	IO-346	—	CFO-100-1	182Q, R	O-470-U++	CH48110-1	CFO-100-1
A23, A23A	IO-346A	CH48109-1	—	182S	IO-540-AB1A5	CH48110-1	—
B23, C23 Sundowner	O-360	CH48110-1	CFO-100-1	A182 K thru N	O-470	CH48110-1	CFO-100-1
B23	O-360A4JD	CH48103-1	CFO-100-1	182-S/N 67042 & Up	O-470-U++	CH48108-1	—
<b>SIERRA</b>				F182-S/N 00130 & Up	O-470-U++	CH48108-1	—
24, A-24, A-24R, B-24R, C-24R	IO-360, -L2A	CH48110-1	CFO-100-1	R182	O-540-J3C5D	CH48103-1	CFO-100-1
<b>SKIPPER</b>				T182	O-540-L3C5D	CH48103-1	CFO-100-1
77	O-235-L2C	CH48110-1	—	TR182, FTR182	O-540-L3C5D	CH48103-1	CFO-100-1
<b>BEECH (Twin Engine Models)</b>				185 A thru D	IO-470, IO-520	CH48110-1	CFO-100-1
<b>BARON</b>				A185E, F	IO-470, IO-520	CH48110-1	CFO-100-1
C55, D55, E55, 58	IO-520	—	CFO-100-1	185-S/N 03852 & Up	IO-520	CH48108-1	—
C55, D55, E55, 58	IO-520C	CH48109-1	—	188	O-470, IO-520	CH48110-1	CFO-100-1
56TC, A56TC	TIO-541-E	CH48104-1	CFO-101-1	188-S/N 03474 & Up	IO-520D	CH48109-1	—
Baron 58P	TSIO-520-L++	—	CFO-100-1	T188-S/N 03474 & Up	TSIO-520	CH48109-1	—
Baron 58P, 58TC	TSIO-520-L, -W, -B	CH48108-1	—	205A	IO-470	CH48110-1	CFO-100-1
Baron 58C, 550	IO-550	CH48109-1	—	C-206	IO-540	CH48110-1	CFO-100-1
<b>DUKE</b>				206 A thru G	IO-520	CH48110-1	CFO-100-1
60, A60, B60	TIO-541	CH48104-1	CFO-101-1	206H	IO-540-AC1A5	CH48110-1	—
<b>QUEEN AI</b>				206-S/N 05030 & Up	IO-520	CH48109-1	—
65, 70	IGSO-480	CH48111-1	CFO-101-1	206-S/N 05030 & Up	TSIO-520	CH48109-1	—
80, 88, B80	IGSO-540	CH48111-1	CFO-101-1	U206	IO-520	CH48110-1	CFO-100-1
<b>TRAVEL AIR</b>				T-206H	TIO540-AJ1A	CH48110-1	—
95, B95	O-360	CH48110-1	CFO-100-1	TU-206	TSIO-520	CH48110-1	CFO-100-1
B95A, D95A, E95	IO-360, L2A	CH48110-1	CFO-100-1	P206	IO-520	CH48110-1	CFO-100-1
<b>DUCHESS</b>				TP206	TSIO-520	CH48110-1	CFO-100-1
76	LO-360-A1G6D & O-360-A1G6D	CH48103-1		207	IO-520	CH48110-1	CFO-100-1
				207-S/N 05227 & Up	IO-520	CH48109-1	—
				T207-S/N 05227 & Up	TSIO-520	CH48109-1	—
				T207	TSIO-520	CH48110-1	CFO-100-1
				210	IO-470, IO-520	CH48110-1	CFO-100-1
				210-S/N 63373-63375 & Up	IO-520	CH48109-1	—
				T210-S/N 63373-63375 & Up	TSIO-520	CH48108-1	—
				P210-S/N 278 & Up	TSIO-520	CH48108-1	—
				T210, P210-S/N 1-277	TSIO-520++	CH48110-1	CFO-100-1

Aircraft engines not listed, but equipped with oil filters at overhaul, may accept Champion filters. Write Aviation Service Deptment for further information. Please include description of your engine. ++ Reference page 25-26 for other TCM application data. \* Requires Lyco (54E23093)



## Aircraft Engine Applications

Model	Engine Model	Champion Spin-On Filter	Champion Element	Model	Engine Model	Champion Spin-On Filter	Champion Element
<b>CESSNA</b> (Twin Engine Models)				<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	CH48110-1	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	CH48111-1	CFO-101-1	<b>MOONEY AIRCRAFT CORP.</b>			
320-D	TSIO-520	—	CFO-100-1	(Single Engine Models)			
320-D, E, F	TSIO-520-B	CH48108-1	—	M20	O-320	CH48110-1	CFO-100-1
335	TSIO-520-EB	CH48109-1	—	M20A, B, Mark21	O-360	CH48110-1	CFO-100-1
336	IO-360	CH48110-1	CFO-100-1	M20D Master	O-360	CH48110-1	CFO-100-1
337	IO-360	CH48110-1	CFO-100-1	M20C Ranger	O-360	CH48110-1	CFO-100-1
P337, P337H	TSIO-360	CH48108-1	CFO-100-1	M20G Statesman	IO-360, -L2A	CH48110-1	CFO-100-1
T337H	TSIO-360-H	CH48108-1	CFO-100-1	M20E Chaparral	IO-360, -L2A	CH48110-1	CFO-100-1
340	TSIO-520-K	CH48108-1	—	M20F Executive	IO-360-A3B6D, -L2A	CH48103-1	—
340A	TSIO-520-N, -NB	CH48109-1	CFO-100-1	M20J-201	TSIO-360-G, LB	CH48108-1	—
401/402	TSIO-520-E	CH48108-1	CFO-100-1	M20K-231	TIO-540-AFIA, B	CH48110-1	—
402C	TSIO-520-VB	CH48109-1	CFO-100-1	M20M-TLS	IO-550	CH48108-1	—
404	GTSIO-520-M	CH48111-1	CFO-101-1	M20R	TIO-541	CH48110-1	CFO-100-1
411-S/N 000 thru 0126	GTSIO-520-C	CH48104-1	—	M22 Mustang	TSIO-360-MB1	CH48108-1	—
411-S/N 0127 and up	GTSIO-520-C	CH48111-1	CFO-101-1	<b>PIPER</b>			
414, 414A	TSIO-520-J, -N	CH48108-1	—	(Single Engine Models)			
421A, B	GTSIO-520-D, -H,	CH48111-1	CFO-101-1	<b>CUB</b>			
421C-S/N 1017 thru 1404	-L, -N, ++	CH48109-1	CFO-101-1	PA-18 "150"	O-320	CH48110-1	CFO-100-1
<b>RILEY CONVERSION</b>	TIO-540-N2BD	CH48103-1	CFO-100-1	<b>TRI-PACER</b>			
310	LTIO-540-N2BD	CH48103-1	CFO-100-1	PA-22 "150"	O-320	CH48110-1	CFO-100-1
				PA-22 "160"	O-320	CH48110-1	CFO-100-1
<b>GULFSTREAM AMERICAN</b>				<b>COMANCHE</b>			
(Single Engine Models)				PA-24 "180"	O-360	CH48110-1	CFO-100-1
AA-1, 1A, 1B, 1B Trainer, TR	2/Lyco O-235	CH48110-1	CFO-100-1	PA-24 "250"	O-540 or IO-540	CH48110-1	CFO-100-1
A1C Lynx, T-Cat	Lyco O-235-L	CH48110-1	CFO-100-1	PA-24B, PA-24C "260"	O-540 or IO-540	CH48110-1	CFO-100-1
AA-5 Traveler	Lyco O-320-E	CH48110-1	CFO-100-1	PA-24 Turbo "260"	IO-540	CH48110-1	CFO-100-1
AA-5A Cheetah	Lyco O-320-E	CH48110-1	CFO-100-1	<b>PAWNEE</b>			
AA-5B Tiger	Lyco O-360-A4K	CH48110-1	CFO-100-1	PA-25 "150"	O-320	CH48110-1	CFO-100-1
Cougar	2/Lyco O-320-D	CH48110-1	CFO-100-1	A25 "260"	O-540	CH48110-1	CFO-100-1
<b>COMMANDER</b>				PA-36 Brave	6-285B	CH48109-1	—
(Single Engine Models)				PA-36-375 Brave	IO-720-D1C	CH48110-1	CFO-100-1
112, 112A	IO-360-C, -L2A	CH48110-1	CFO-100-1	PA-36-400 Brave	IO-720D1CD	CH48104-1	CFO-101-1
112TC	TO-360-C1A6D	CH48103-1	CFO-100-1	<b>CHEROKEE, CADET</b>			
114	IO-540-T4A5D	CH48103-1	CFO-100-1	PA-28 "140"	O-320	CH48110-1	CFO-100-1
(Twin Engine Models)				PA-28 "150"	O-320	CH48110-1	CFO-100-1
500B, 500U	IO-540	CH48110-1	CFO-100-1	PA-28 "160", "161"	O-320	CH48110-1	CFO-100-1
700	TIO-540-R2AD	CH48103-1	CFO-100-1	PA-28 "180"	O-360	CH48110-1	CFO-100-1
<b>HELIO AIRCRAFT</b>				PA-28 "180", "181"	O-360-A4M	CH48110-1	CFO-100-1
Helio 700	TIO-540-J2BD	CH48103-1		PA-28 "235"	O-540	CH48110-1	CFO-100-1
				PA-28 "151"	O-320	CH48110-1	CFO-100-1
				<b>ARROW</b>			
				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	—

Aircraft engines not listed, but equipped with oil filters at overhaul, may accept Champion filters. Write Aviation Service Deptment for further information. Please include description of your engine. ++ Reference page 25-26 for other TCM application data. \* Requires Lyco (54E23093)

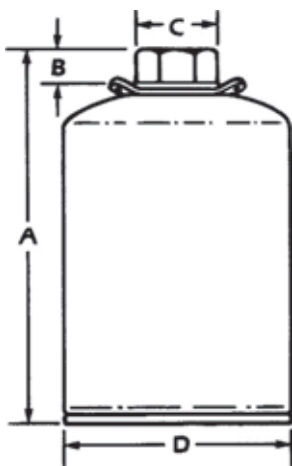


# Oil Filters

## Aircraft Engine Applications

Model	Engine Model	Champion Spin-On Filter	Champion Element	Model	Engine Model	Champion Spin-On Filter	Champion Element
<b>DAKOTA</b> PA-28-235 PA-28-201T	O-540-J3A5D TSIO-360-FB	CH48103-1* CH48108-1	CFO-100-1 —	<b>TWIN COMMANCHE</b> PA-30 "160" Turbo PA-39 "160"	IO-320 IO-320 LIO-320 IO-320 LIO-320	CH48110-1 CH48110-1 CH48110-1 CH48110-1 CH48110-1	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1
<b>CHEROKEE SIX</b> PA-32 "260" PA-32 "300" PA-32R "300" PA-32R "300" PA-32RT-300T PA-32-301 PA-32-301 PA-32R-301 PA-32R-301	O-540 IO-540 IO-540-K1AD TIO-540-S1AD TIO-540-S1AD IO-540-K1G5D TIO-540-S1AD IO-540-K1G5D TIO-540-S1AD	CH48110-1 CH48110-1 CH48103-1* CH48103-1* CH48103-1* CH48103-1* CH48103-1* CH48103-1* CH48103-1*	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1	<b>NAVAJO</b> PA-31 "300" PA-31 "310" Turbo PA-31 "325"  PA-31 "350" Chieftain  PA-31P "425" PA-31P "350" Mojave	IO-540 TIO-540 IO-540-F2BD LTIO-540-F2BD TIO-540-J2BD LTIO-540-J2BD TIGO-541 TIO/LIO-540-V2AD	CH48110-1 CH48110-1 CH48103-1 CH48103-1 CH48103-1 CH48103-1 CH48104-1 CH48104-1	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 CFO-101-1 CFO-101-1
<b>TOMAHAWK</b> Trainer PA-38-112	O-235-L2C	CH48103-1*	CFO-100-1	<b>SENECA</b> PA-34  PA-34  Seneca II  Seneca III PA-34-220T	IO-360C LIO-360C IO-360-C1E6D LIO-360-C1E6D LTSIO-360-E TSIO-360-E TSIO-360-KB LTSIO-360-KB	CH48110-1 CH48110-1 CH48103-1 CH48103-1 CH48108-1 CH48108-1 CH48108-1 CH48108-1	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1 — — — —
<b>MALIBU</b> PA-46-301P	Cont TSIO-520-BE	CH48109-1		<b>PIPER AEROSTAR</b> PA-60-600, -600A PA-60-604, -601B PA-60-601P PA-60-602P	IO-540-G, -K IO-540-P, -S IO-540-S IO-540-AA1A5	CH48110-1 CH48110-1 CH48110-1 CH48110-1	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1
<b>MALIBU MIRAGE</b> PA-46-350-P	Lyc0 TIO-540-AE2A	CH48103-1		<b>SEMINOLE</b> PA-44-180 PA-44-180T	O-360-E1AD TO-360-E1A6D LTO-360-E1A6D	CH48103-1* CH48103-1*	CFO-100-1 CFO-100-1
<b>Twin Engine Models</b> <b>APACHE</b> PA-23 "150" PA-23 "160" PA-23 "235"	O-320 O-320 O-540	CH48110-1 CH48110-1 CH48110-1	CFO-100-1 CFO-100-1 CFO-100-1				
<b>AZTEC</b> PA-23 "250" "C" PA-23 PA-23 Turbo "250" "C", "D", "E", "F" PA-23 Turbo "250"	O-540 IO-540 IO-540 TIO-540	CH48110-1 CH48110-1 CH48110-1 CH48110-1	CFO-100-1 CFO-100-1 CFO-100-1 CFO-100-1				

## Dimensional Data



### Popular spin-on oil filters

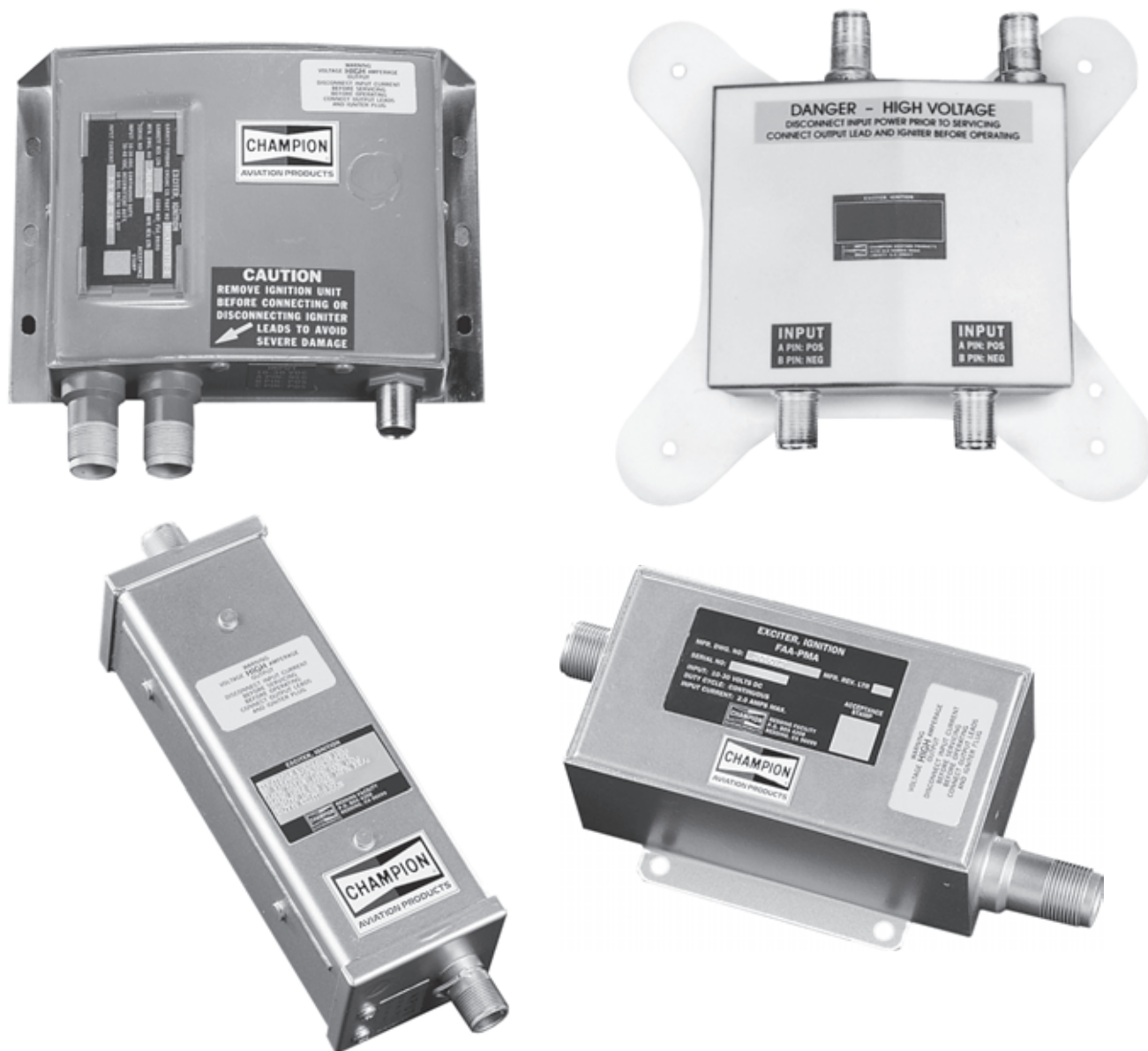
Champion Part No.	A	B	C	D	Thread (SAE)	Dry Weight Lbs./Kg.
CH48103-1	4.48" (11.4 cm)	0.43" (1.09 cm)	1.00" Hex (2.54 cm)	3.71" (9.4 cm)	13/16-16-UNS-2B	1.32lbs. (0.59kg)
CH48104-1	5.73" (14.6 cm)	0.43" (1.09 cm)	1.00" Hex (2.54 cm)	3.71" (9.4 cm)	13/16-16-UNS-2B	1.41lbs. (0.64kg)
CH48108-1	4.48" (11.4 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)



## 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, 340-500, -600
331-600			
<b>Pratt &amp; Whitney Canada</b>			
PW JT15D-1, -1A, -1B, -4, -4B, -4D, -5, 5A, -5D	CH92028 (305013)	3041996-01 (3037865)	Single Output
PW150, 150A	CH92043-2	3122413-07	DeHaviland DASH 8-400MDHS, MD900
PW206A/B/C/E, B2	CH92015	3043937-03	Eurocopter EC135
PW308A, C	CH92051-2	30C1132-03	Astra Galaxy, Learjet 60, G200, Falcon 2000EX
PT6A-67D, 67C	CH92015-1	3043937-04	Raytheon 1900 D
PT6C-67C, 67D	CH92015	3043937-01, 02, 03	
PW 206B2			
PW207D,E			
PT6C-67C	CH92015-1	3043937-04	
<b>Sundstrand APIC (Auxiliary Power International)</b>			
APS 2000	305088-2	179420-2	Boeing 737-300, -400, -500
APS2300	CH92073	4951714	
<b>Williams International/Rolls-Royce</b>			
FJ44 Series	CH92007, 305115-1	56635, 50846	Citation Jet, CJ1, CJ2
	CH92007-1	68145	
FJ33	CH92070-1	71274	

## Notes

\*FAA-PMA Pending.





## 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>Honeywell</b>			
ALF502L-2, -2A, -2C, -3			Canadair Challenger 600
ALF502R-3, -3A, -5, -6	53282 (Jumper) 53283 (Jumper) 53214 (Jumper A) 53215 (Jumper B) 53214, 53215, (Jumper)  53216-1, 53217-1 (Ign. A, B)  53217-1, (Ign. B)	2-303-025-02 2-303-079-02 2-303-766-02 2-303-767-02 2-303-766-02, 2-303-767-02 2-303-768-03 2-303-769-03 2-303-769-03	BAe146-10  BAe 146-300 Series
LF507-IF, -IH	53214 (Jumper A) 53215 (Jumper B) 53216-1 (Ign. A)	2-303-766-02 2-303-767-02 2-303-768-03	AVRO RJ Series (Formerly BAe)
LF507-1F, 1H, AS907-1, 1A	53217-1 (Ign. B) 53280-1 53281-1 53282 (Jumper B) 53283 (Jumper B)	2-303-769-03 2-303-742-03 2-303-743-03 2-303-025-02 2-303-079-02	AVRO RJ Series (Formerly BAe)
HTF7000 (formerly AS907)	53542-1	3038111-1	Challenger 300
TPE331-25DA	50221-18	369876-18	Air Asia, Porter
TPE331-25FA	50221-21	369876-21	
TPE 331-2-0014	50221-15 50221-16	369876-15 369876-16	Skyvan
TPE331-2UA-203D	50221-12	369876-12	Alaska Wildlife, DHC3 Beaver, G21G Goose
TPE331-55B	50221-7	369876-7	Carstedt, Jetliner 600A
TPE331-1-101E			Jetliner 600B
TPE331-1-101Z			Marsh, Turbo Thrush
TPE331-3U-303V			Handley Page, Jetstream III
TPE331-10UF-501H	50221-24	369876-24	CASA-212
TPE331-10UF-511H	50221-25	369876-25	Jetstream 31
TPE331-10UF-512H			Merlin 300
TPE331-10UF-513H			MU-2
TPE331-10UG-513H			
TPE331-10UG-514H			
TPE331-10UGR-513H			
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			

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, Inc.

# Turbine Ignition Leads



## Aircraft Engine Applications

ENGINE APPLICATION	CHAMPION LEAD NO.	OEM LEAD NO.	AIRCRAFT APPLICATIONS
<b>HONEYWELL (Cont'd)</b>			
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
TPE331-10-511K			
TPE331-10-511M			
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			
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

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, Inc.



# Turbine Ignition Leads

Aircraft Engine Applications

ENGINE APPLICATION	CHAMPION LEAD NO.	OEM LEAD NO.	AIRCRAFT APPLICATIONS
<b>Honeywell (Cont'd)</b>			
TFE731-5-1B	53142-13	3071590-13	L55
TFE731-2-2B	53142-12+ (Pre S.B. 74-3003) 53142-13+ (Pre S.B. 74-3003) 53142-10++ (Post S.B. 74-3003) 53142-11++ (Post S.B. 74-3003)	3071590-12 3071590-13 3071590-10 3071590-11	Learjet, L35/36
TFE731-3R-1D	53142-12+ (Pre S.B. 74-3003) 53142-13+ (Pre S.B. 74-3003)	3071590-12 3071590-13	
<b>Pratt &amp; Whitney CANADA PT-6 Series</b>			
PT6A-11 PT6A-110 PT6A-21	53402-02	3011871	Piper Cheyenne I/IA, T1040 Dornier Sky Servant Beech C90
PT6A-112	CH53399-04	3119832-01	Cessna Caravan II*, Conquest I, Embraer EMB-110 P1, P2 EMB-111
PT6A-114, 114A PT6A-135A PT6A-11AG	CH53399-04	3119832-01	Cessna Caravan I*, Avtek 400, Beech F90-1, Omac Laser 300, Ayers Turbo Thrush T-11, Schweizer G164B Turbine, Agcat
PT6A-116 PT6A-121	CH53399-04	3119832-01	Jetcrafters Taurus, Piper
PT6A-135	CH53399-04	3119832-01	Cheyenne IIXL, Riley Eagle 421, Riley Turbine 210, Schafer Comanchero
PT6A-15AG	CH53399-04	3119832-01	Air Tractor AT400, Ayers Turbo Thrush T-15, Frakes Turbo Cat B, Weatherly 620TP
PT6A, 6A, 6B PT6A-20 PT6A-20A, 20B PT6A-25 PT6A-25A PT6A-25C PT6A-36, 34, 38 PT6A-62 PT6A-66 PT6A-67, 114, 114A, 135A PT6A-67D	CH53399-04  CH53399-07* CH53399-09 CH53399-10	3119832-01  3119833-01 3119832-02 3119835-02	DHC-2-Turbo Beaver, Beech, C90/A C90A, 99, Schafer Comanchero 500, Beech 99A/B, Catic Y-12, DHC-6 Twin Otter, Embraer EMB-110/B, B1, C, E, & P, Caraja, Let L-410A, Pilatus PC-6
PT6A-28	CH53399-04	3119832-01	Beech T34C, Beech T34C-1, 1900D, NAC1T, Pilatus PC-7, Embraer EMB-312, Beech C99, Arava, Pilatus PC-9, Piaggio Avanti, Beech Starship I
PT6A-34	CH53399-04	3119832-01	Ratheon Beech 1900 / 1900C
PT6A-34AG	CH53399-04	3119832-01	Beech E90, 99A, A100, Embraer EMB-121A, Piper Cheyenne II
PT6A-41 PT6A-42 PT6A-45A PT6A-45B PT6A-60A PT6A-61, 64 PT6A-65/65B, 65AG, 66, 67, 67A, 67B, 67D, 67R, 6B PT6A-65R/AR	CH53399-06	3119836-01	Avalon 680, Embraer EMB-110K1, S1, P1, P2, Frakes Mallard, IAI Arava, IAI 102, Omni Turbo Titan, Spectrum One
PT6A-41AG	CH53399-06	3119836-01	Ayres Turbo Thrush T34, Frakes Turbo Cat A, B, C, NAC Fieldmaster, PzL 106A Turbo Kruk, Schweizer G164B Turbine, Agcat
			Beech 200, Piper Cheyenne III, Beech B200, C12S, Pilatus PC-9, Frakes Mohawk 198, Shorts 330, Beech 300, Piper Cheyenne IIIA, Beech 1900, Hawk Gafhawk 125, Shorts 360
			Frakes Turbo-CAT, Schweizer G-164D

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, Inc.

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

# 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-45R	CH53399-06	3119836-01	Fairchild Metro IIIA, Hawk
PT6A-50	CH53399-05	3119835-01	Gaffhawk 125, Shorts 330, Shorts
PT6B-36/36A/36B/35F	CH53463	3123061-01	C23A Sherpa, USAC Turbo
PT 6C-67C	CH53490	3050604-01	Express
PT6T-36			DHC-7
PT6T-3B/3B1/6/3BE/3D	CH53399-01	3119829-01	Sikorsky S-76, H-76
<b>Pratt &amp; Whitney CANADA JT15D Series</b>			
JT15D			Bell 212, 412, Sikorsky S58T
JT15D-1	53067-21 (Pin Connector) T3	3107371-01	Aerospatiale Corvette
JT15D-1A/1B	53067-38.5 (Pin Connector) T3	3107371-02	Cessna Citation 500
JT15D-4			Cessna Citation I
JT15D-4B			Cessna Citation II,
JT15D-4C			Mitsubishi Diamond I
JT15D-4D		S211	Cessna Citation S/II
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	53367-01	3120676-01	Embraer EMB-120
PW118/118A	50383H	3033339	
PW119B			Dornier 328
PW120/121	53302	3038915	ATR-42
PW120A/121	53335-01 (Ceramic)	3117291-01	DHC-8-100
PW123/123AF	50383-K	3035333	
PW124B/125B			BAe ATP
PW126/126A	53335-01	3117291-01	Ilyushin 114
PW127 H			
PW150/150A	CH53536	3056566-01	Dash 8Q, 400
	CH53456-2	3122414-04	DeHavilland
<b>Pratt &amp; Whitney CANADA PW200 Series*</b>			
PW206A, E	CH53442-4	3121144-02	MD900
	CH53530	3056743-01	MD Explorer, Bell 427
PW206C, E	CH53442-2	3121147-01	EC135
	CH53450	3121914-01	Agusta, A109E
PW206B	CH53442-3	3122957-01	EC135
<b>Pratt &amp; Whitney CANADA PW300 Series</b>			
PW305,306, A, B, C	CH53238-1	31B3615-02	BAe 1000, Lear 60
PW308C	CH53483-5	30C1133-03	Dassault- Falcon EX 2000
	CH53483-7	30C2172-04	
<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 53279	Cessna Citation Jet, CJ 1,2,3 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

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, Inc.

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

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



ENGINE APPLICATION	CHAMPION LEAD NO.	OEM LEAD NO.	AIRCRAFT APPLICATIONS
<b>Honeywell (Formerly Allied Signal Engines) (Cont'd)</b>			
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
<b>Pratt &amp; Whitney CANADA</b>			
ST6L-73	CH53399-08	3119834-01	Lockheed L-1011
PW901A	50383-L	3910351-01	Boeing 747-400
<b>Sundstrand APIC (Auxiliary Power International)</b>			
	53267-3	179505-3	
APS2000	53267-4	179505-4	Boeing 737-300, -400, -500
<b>REPAIR KITS</b>			
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		
<b>UNIVERSAL KIT</b>			
PT-6 Series, PW100 Series, PW205 Series	53057	(PWC PN 3108407-01)	
<b>OPTIONAL TOOLS FOR REPAIR</b>			
Crimp Tool (Ref. Sat-124)	52243		
Contact Hook	52258		

[illegible]

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





## 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.



# Turbine Igniters

## 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:**

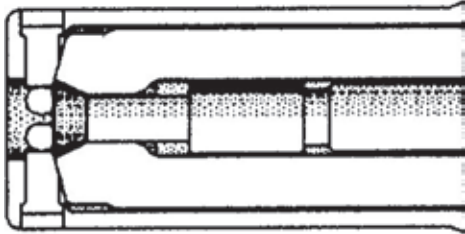
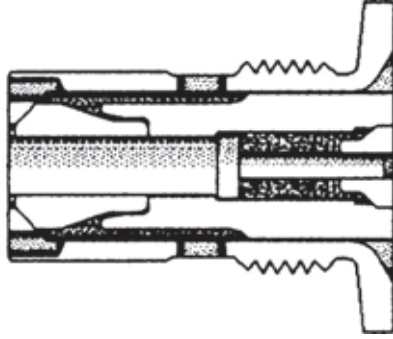
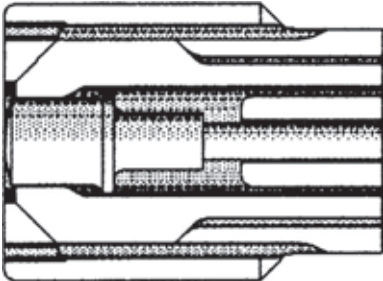
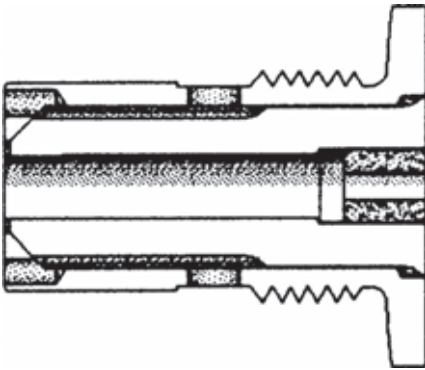
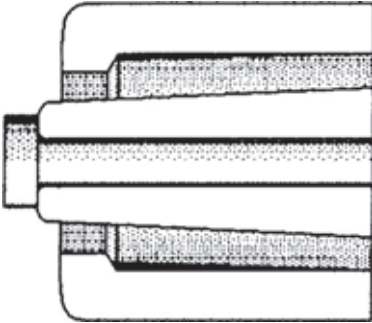

Allison, Honeywell, General Electric, Pratt & Whitney, Sundstrand/Turbomeca, Teledyne, Textron Lycoming, Williams International, Westinghouse and Rolls-Royce.



# Turbine Igniters

## Basic Igniter Types

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

# Turbine Igniters



## Aircraft Engine Applications

(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 -B17B, -B17C, -B17D, -B17E, -C10, -C10A, -C10B, -C10D, -C18, -C18A, -C18B, -C18C, -C19, -C20, -C20B, -C20C, -C20F, -C20J, -C20R/1, -C20R/2, -C20R/4, -C20S, -C20W	CH34168 or CH34269 (long life)	6877518  23006266	Aerospace Tech of Australia Aerospatiale Agusta Bell Breda Calif. Airmotive Helio Hiller Aviation Hindustan Kawasaki	Nomad 22B, N24A Twin Star AS355F-1, -2, M2, A5 555 UR 109A 206B 369D Turbo Star 402 H634 Twin RH1100A HTT-34 H500D, HH500, HK500, OH6D
250-B15A, -B15E, -B15G, -B17D, -B17E, -B17F, -B17F/1, -B17F/2, -C18, -C18C, -C18, -C18C, -C20J, -C20R, -C20R/1, -C20R/2, -C20R/4, -C20S, -C20W	YB63-1 CH31832	6877518 23036808	Maule MBB McDonnell Douglas Panstwowe Zaklady Partenavia Pilatus BN Schweizer SIAI Marchetti Soloy (Hiller) Soloy (Bell) Valmet	MX-7-420, M7-420 B0105, 105CB, 105CBS MD500, 500U, D, E, (MD-88) MI-2 AP-68TP-300 Spartacus Turbine Islander 330 SF260TP, SF600 UH-12E Conversion 47-Conversion L90TP Redigo
250-C28, -C28B, -C28C, -C30, -C30G, -C30G2, -C30L, -C30M, -C30P, -C30R, -C30S, -C30R/1, -C30R/3, -C40, -C40B, -C47, -C47B, -C47E, -C47M	CH34187-A or CH34304 (long life)	6899084  23006267	Bell MBB Boeing Sikorsky	Long Ranger-206-L1, 206-L3, 214, 222, 407, 430 BO-105LS-A3 530F, G, N S-76A MKII
GMA 2100A, AE2100, -2100A, -2100C, -2100D3, AE3007	CH31898-1	23062672	SAAB Embraer Cessna	2000, C-130J EMB 135, 140, 145 Citation X
<b>CFM INTERNATIONAL</b>				
CFM56-2, -2A, -2B	CH31900-6 (T4) **	1374M13P11	Boeing	DC-8 Super 71, 72, 73, Trident (Re-engined)
CFM56-3, -3B	CH31900-6 (T4) **	1374M13P11	Boeing	737-300, -400, -500
CFM56-5	CH31900-6 (T4) **	1374M13P11	Airbus Industrie	A319, A320, A321, A340, -200, -300
CFM56-7B18, -7B20, -7B22, -7B24, -7B26, -7B27	CH31900-6 (T4) **	1374M13P11	Boeing	737-600, -700, -800, -900
<b>GENERAL ELECTRIC</b>				
CJ805-23, -23B, -23C	AA30S-9	5007M32P2	Convair	800 & 900 Series
CJ610	FHE146-7A	37C311124	Hansa Israel Aircraft Gates	HFB320 Commodore Jet LearJet 23, 24B, 24D, 25, 25B, 25C, 25D, 25G
CF700	FHE146-7A	37C311124	Dassault Sabreliner Corp.	Falcon 20, D, E, F Sabreliner 75A
CF6-6, -6D, -6D1, -6D1A, -6D1H, -6D1K	AA138S-4B**	9101M37P36	Boeing	DC-10-10
CF6-50, -45, -80A,	CH31843 (T3)	9101M37P71	Boeing	DC-10-15, DC-10-30
CF6-50, -45, -80A, -80A1, -80A2, -80A3	CH31905 (T4)	1305M52P09	Airbus Industrie	A300B, A300C, A300B4, A310
CF6-80C Series	CH31753A** (T3)	9392M95P05	Boeing	B747-200, -300, SR/SP, 767
CF6-80C, -80E	CH31904-2** (T4)	9387M23P09	Airbus Industrie	A300B4-600, A310-200, A330
CF6-80E, -E1, -A2	CH31772A** (T4)	9387M23P01	Boeing	747, 767, MD-11
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		Canadair	Challenger 601-3R/604
CF34-3A1, -3B1	CH31858-1		Canadair	Bombardier CRJ-100/200
CF34-8C1, -8C5, 8E	CH31926	4096T33P07	Canadair Embraer	Bombardier CRJ-700-900 170/175
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 Bell	570DC 214ST
CT7-2A, -2D1, -5A, -5A1, -5A2, -5A3, -6, -6A, -7A, -7A1, -9B, -9B1, -9B2, -9C, -9D	CH34419	5044T67P07	Saab-Fairchild CASA/Nusantara	SF340 CN235 Indonesia Mfg. Version
CT-58-100-2, -110-1, -110-2, -140-1, -140A/L -140-2	CH34095	37B200275P102	Agusta Kawasaki Mitsubishi	AS-61 KV-10711/11A SH-3B, S-61A

\*\*Includes Installation Gaskets.

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



# Turbine Igniters

## Aircraft Engine Applications

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	CH31547C**	369949-3	CASA Commander Div. Beech British Aerospace Cessna Dornier Fairchild Mitsubishi	C212-200, -300 680T, V, W, 681, 690A, B, 840, 900, 980, 1000 King Air B100 Jetstream 31 Conquest II 228-100-200, 101, 201, 212 Merlin IIB, IVC, Metro-III, SA-227-AT, AC, TT/41 MU-2B, D, F, G, J, K, MU2B-40, MU2B-60, MY2S
TPE331-14, -14A, -14B	CH31701A	3105547-1	Piper	Cheyenne 400
TPE331-14 GR/HR	Y209-2 CH34627-1* CH34627	3105893-4 3105893-5	British Aerospace	Jetstream 41
TPF351-20 TFE731-2, -3, -3A, -3B, -3R, -3AB, -3AR, -3B, -4R-2S, -5, -5A, -5R, -5AR	CH31847 CH31815 (long life) CH31815-2 CH31621A	3105547-2 3074541-1  3074541-4 3070967-1	Embraer/FAMA Cessna Dassault Bombardier British Aerospace	CBA-123 Vector Citation III, Citation VII Falcon 10A, 50, 100, 900, CASA 101 Lear Jet 31, 35, 36, 54, 56, LR55-ER, -LR, XLR 125-700, 731, 800
TFE731, -20, -40, -60	CH31815-1 CH31815-2	3074541-3 3074541-4	Israel Aircraft Ind Lockheed Sabreliner Corp	Westwind 1124, 1124A, Astra 1125 Jetstar II, 731 Sabreliner 65/65A
ATF3-6, -6A Requires both numbers listed	CH31641 (lower) or CH31642 (upper) CH31767 (lower) (long life) CH31768 (upper) (long life) FHE113-10	3001430-1 3001430-2 3003119-1 3003119-2	Dassault	Falcon 200, French Guardian, HU-25A
T53-07A, T53-09A, B, C, T53-11A, T53-13B, T53-17A, T53-13A	CH34016	1-300-197-03 1-300-348-06	Bell	204B, 205 205A
LTS-101-600A, -600B, 650A-2, 650-A1, 750A-1	CH34016	1-300-348-06	Aerospatiale	AS350, AS350D Astar, SA-633G1, Dauphin 2
LTS-101-650C-2, -650C-3, -650C-3A, 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 -700A-1A	CH34016-1	1-300-348-07	MBB/Kawasaki  Air Tractor Piaggio	BK-117-A3  AT-302 P166-DL3 Page AG-Cat B, Thrush Riley 421 (Conversion)
ALF-502-L, -L2, -L2A, -L2C, -L3, -R3, -R3A, -R4, -R5, -R6	CH34452A	2-300-732-05	Canadair British Aerospace	Challenger CL600 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>				
JT3C, JT3D, PW4090	AA72SA	487238	Boeing McDonnell Douglas	707, 720 DC-8-50, -61, -62, -63
JT4A, -3, -5, -9, -10, -11, -12	AA63S or AA72SA+	464332 487238	Boeing McDonnell Douglas	707 DC-8-30 Series
JT8D-A, -1A, -1B, -5, -7 -7A, -7B, -9, -9A, -11, -15, -15A, -17, -17A, -17AR, -209, -217, -217A, -217C, -219	AA72SA or AA134S-1+	487238 709525	Boeing Sud Aviation	727, 737-100, -200, DC-9, MD-81, -82, -83, -87, -88 Caravelle 10R
JT9D-3, -7, -7A, -7H	AA72SA+ or AA134S-1	487238 709525	Boeing	747
JT9D-59, -59A, -7A (SP), -7AH, -7F, -7Q, -7R4D, -7R4G	AA134S-1	709525	Airbus Industrie Boeing Boeing	A300, A310 747, 767 DC-10-40

\* FAA-PMA Pending

\*\*Includes Installation Gaskets+ Refer to P & W Turbojet S.B. 629

# Turbine Igniters



## Aircraft Engine Applications

Engine Mfr. & Model	(FAA Approved)		PRIMARY PROPULSION PLANT	
	Champion Part No.	Engine Mfr. Part No.	Aircraft Make	Aircraft Model
<b>PRATT &amp; WHITNEY (Cont'd)</b>				
JT9D-3A, -3, -7, -7A, -7H, -7AH, -20, -20B, -20J, -59A, B, D, -70, -70A, B, D, -7Q, -7Q1, 2, 3, -7R4A, D, 1, D1, E, E1, G2, H1, 2, E4	AA134S-1	709525	Airbus Boeing	A300, 310 747, 767
JT12A, -4, -5A, -6, -6A, -8	FHE151 or AA33S, A, D	424815 424848-E	Lockheed Sabreliner Corp.	Jetstar Sabreliner 40, 60
JTFD12A	FHE151	424815	Sikorsky	CH54A, S-64E, -F, Skycrane
PW2000 Series	AA134S-1	709525	Boeing Ilyushin	757 IL9GM/T
PW4000 Series, PW4056, 4152, 4156, 4256, 4060	AA134S-1	709525	Boeing Airbus Industrie	747, 767 A300, A310, A330
PW4077, PW4084, PW4098, PW 4090	CH31923-5	51J015	Boeing	MD-11, 777
<b>PRATT &amp; WHITNEY CANADA, INC.</b>				
(Glow Plug Ignition)				
PT6A-6, -6A, -B, -11, -11AG-20, -15AG -20A, -20B, -21, -25, -25A, -27, -28, -28A, -29, -34, -34B, -36, -110	AGF2-6	3014054	Beech DeHavilland	KingAir Commuter 90, A90, B90, C90, E90, 99 & 100, A100 Turbo Beaver, Twin Otter
PW-115, -118, -118A, -120A, -121, -123, -123AF -124A, -124B, -125B, -126A	CH34055 or CH34406	3035102 3035882	Aerospatiale Advanced Aircraft Agusta-Bell Airtractor, Inc. AVTEK Ayers Beech Starship Bell Cessna DeHavilland Dornier Embraer Fairchild Frakes	TBM 700 Turbine 210, Turbine Eagle 421 AB-212, AB-412 AT-400, AT-400A, AT-402, AT-502, AT-503 400 Turbo Thrush S2R-T C-90, King Air-200, F90A, 1900, 300, 350,  212, 412 Conquest 1, Caravan I, II Dash 7 DO-128-6, DO-24-TT, Seastar Bandeirante, Xingu, Appjost, Tucano Metro IIIA Mohawk 298, Turbo-Cat S2-R, AB139
PT6A-29, -34B, -AG, -36, -38, -40, -41, -41AG, -42, -45A/B/R, -50, -60A, -61A, -65B/R/AG/AR, -110, -112, -114, -116, -121, -135A				
PT6B-9, -35F, -36A, -36B				
PT6C-67A, 67C	CH34758-2	3050627-03	Gates-PIAGGIO	GP-180
PT6T-3, -3A, -3B, -3BE, -3D, -3DE, -3DF				
PT6A, PT6B, PT6T Series (Spark Ignition)	CH34406 or CH34055	3035882 3035102 (IC 3032096)	Bell Piaggio Pilatus Piper Schweitzer Short Bros Sikorsky Weatherly Westland	212, 412 Avanti PC-6, -7, -12 Cheyenne, I, II, III, IIIA, IIXL, TIO40 AG Cat G164B, G164D SD-330, 360 S58T, S76B 620TP Lynx
PW-100, -115, -118, -119B, -120, -120A, -121, -123/B/C/E, 123AF, -124/A/B, -125B, -126, -126A, -127E	CH34055 or CH34406  CH34817	3035102  3035882  3055161-01	Aerospatiale/Aeritalia British Aerospace DeHavilland Dornier Embraer Fokker	ATR-42, 72 ATP DASH 8 328 EMB 120, 121, Caraja 50
PW150, A	CH31918-2 CH31955-1	3122415-03 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
PW207D, E	(Series 21)			
PW305A, 305B, 306A, 306B, 306C	CH34682**	31B5168-01 31B5268-01	British Aerospace Lear	BAe 1000, Cessna Sovereign, 328 Jet G200
PW308A, C	CH31929-3	30C1356-03		Hawker Horizon
JT15D, -1, -1A, -1B, -41, -4B, -4C, -4D, -5, -5A, -5B, -5C, -5D, -5F	CH34668-1 (T5) CH34659-3 (T5) Long Life FHE246-4 (T3)	3117463-01 3119400-01  3039828	Aerospatiale Cessna Beech SIAI-Marchetti	Corvette SN601 Citation I, II, SII, 5 Ultra MU-300 Diamond I, IA, II, Beechjet 400 S211

\* FAA-PMA Pending

\*\*Includes Installation Gaskets





# Turbine Igniters

## Basic Igniter Types

Engine Mfr. & Model	(FAA Approved)		PRIMARY PROPULSION PLANT	
	Champion Part No.	Engine Mfr. Part No.	Aircraft Make	Aircraft Model
<b>ROLLS ROYCE</b>				
Avon 524B, 252B, 527, 531, 532R, 533R, 533R-11A	FHE176A**	CR103	Sud Aviation Hawker Siddeley	Comet Caravelle
BR700, 710A1-10, 710A2-20	Y242-5	Y242-5	Gulfstream	GV, Canadiar Global Express
BR710	Y242-5	272143	Bombardier	Global Express
BR715, BR715 A1-30, B1-30, C1-30	CH34760-1	CH34760-1	Boeing	717
Dart 506, 510, 511, 511-7E, 514, 514-7, 525, 525-F, 526, 527, 528-7E, 529D-7E, 529-7H, 529-8E, 529D-8E, 529-8H, 529D-8H, 529-8X, 529D-8X, 529-8Y, 529D-8Y, 529-Z, 529-8Z, 530, 531, 523-7,-2L, -7L, -7N, -7P, -7R, 535-2, 551-7, -7R	FHE19-6L	CR104-2	British Aerospace Conroy Convair Fokker, Fairchild Gulfstream Handley Page Siddeley NAMC	Viscount, HS748-2B Grumman Albatross 600, 640 F27, FH227 Gulfstream I, Albatross Herald Argosy YS-11
R-R Snecma M45H-Mark 501	CH34126	CBS113-1, 2	Fokker	VFW614
RB211-535 E4/E4B *Phase 5*	CH34743	L907031	Boeing Tupolev	757 TU-204-220/TU-224
RB211 All Series	YA211-25	L912018	Lockheed Boeing	L-1011 747, 757, 767, 747SP
RB211- 524 G2-T-19, G3-T-19, H2-T-19, H-T-36	CH34736	L907030	Airbus Boeing	A330, A300B4 B747, B767, B777
Trent 500	CH34761	L907032	Airbus	A340-500/600
Trent 700/800 Series	CH34736	L907030	Boeing Airbus	B747, B767, B777 A330, A300B4
Spey RB168, RB183, 506-14, -14A, -14C, -14D, 511-14, -14W, -8, 511-8/Model 2970, 555-15/H	FHE164E YW90	CR114-2 L912017	Gulfstream British Aerospace Fokker	GII, III 111 F28
Olympus 593 MK601-14, -28	CH34177	CBS112/4	British Aerospace & Aerospatiale	Concorde
Bristol Siddeley-Viper 500 Series, MK521, 522, 526 R.R. Viper	FHE205B	CBS116	Beech Hawker Siddeley Piaggio	BH-125 HS-125 PD-808
Bristol Siddeley-Viper 600 Series, MK601-22, R.R. Viper TAY 611-8, 611-8C, 620-15, 650-14, 650-15	FHE267-2A** Y183-5	CBS111-2 L912019	Hawker Siddeley Gulfstream Fokker	HS125-600 GIV, GIV-SP F100, F70
TAY 650-14, 650-15, 651-54 Incorporating modification 72-1302	Y183-6	L912023	Boeing Folker	B727 F100
<b>TURBOMECA</b>				
Arriel 1A, -1A1, -1A2, -1B, -1C, -1C1, -1C2, -1D -1D1, 1E2, -1K, -1K1, 1S, -1S1	CH34745	9550175400		
Arriel 1A, -1A1, -1A2, -1B, -1D, -1D1, 1S, -1S1, -2B	CH34595	9550168770		
Arrius 2F	CH34593	9550166660		
<b>WALTER</b>				
M601E-11, M601F	CH34630			Let L-420, PZL-106 BT
<b>WILLIAMS INTERNATIONAL/ROLLS-ROYCE</b>				
FJ44-1A, -2A, -2C	CH31876-6 CH31956	57846 68032	Cessna Raytheon	Citation Jet, CJ1, CJ2 Premier I
FJ33	CH34812-2	67906		
<b>TURBINE ENGINE APPLICATIONS (APU)</b>				
<b>AUXILIARY POWER INTERNATIONAL CORP.</b>				
APS500-T62T-40C14 APS1000 (T-62T-46C) APS2100 APS2300	CH38013	160544-1	Fokker Embraer Saab Avro Boeing British Aerospace	50 (F27 Mark 050) EMB-135, -145 2000 146-RJ70A, 85A, 100A B717 BAe 146-100A, 200A, 300A
APS2000 APS3200	CH38013	160544-1	Boeing Airbus Industrie	B737-300, -400, -500 A-319, -320, -321
<b>HAMILTON SUNDSTRAND</b>				
T20G Gemini	CH38013	160544-1	Beech Cessna Gulfstream Aerospace Gulfstream Commander Israel Aircraft Lear Mitsubishi/Beech Piper Swearingen	King Air Citation I, II 980 Commodore Jet Lear Jet Diamond I, MU-2 Cheyenne Merlin, Metro

\*\*Includes Installation Gaskets \*FAA-PMA Pending

	(FAA Approved)	AUXILIARY AIRBORNE TURBINE UNIT		
Engine Mfr. & Model	Champion Part No.	Engine Mfr. Part No.	Aircraft Make	Aircraft Model
<b>HAMILTON SUNDSTRAND (Cont.)</b>				
T62T-39 T62T-40C Series (APS 500)	FHE159-6	26519-1	Boeing Boeing Vertol Cessna Convair Dassault DeHavilland Cessna Fairchild Gulfstream BAe Raytheon Lockheed Sabreliner Corp.	707 Model 234 Citation III 880 Falcon 20, 20D, 50 Dash 7, Dash 8 Citation III, VI, VII FH227 II 125-400, -600, -700, -800, -1000 Beech Jet Jetstar Sabreliner
T62T-40C14-APS 500 R/C14 is installed	CH34834	4952382	Embraer	ERJ 135/145, Emb 120
<b>HONEYWELL</b>				
85-37 85-71, -90E P85-90F	FS47-11	75153	Grumman Lockheed Convair	Gulfstream I Hercules 832, Electra (Branniff) 580
85-91C 85-98/C/CK 85-98/CK (A) 85-980/W/DCK/DHF 85-99 85-115/C/CK 85-115H 85-129/-129A, C, E, F, G 85-139/H 85-163/CK 85-185L 85-291C 85-291E	CH31723 or CH31824	369162 3888210-1	Convair Boeing Lockheed McDonnell Douglas Sud Aviation British Aerospace Hawker Siddeley Boeing Hawker Siddeley Aerospatiale Lockheed Convair	580 727, 737 Series 382 DC-8 Re-eng., DC-9 Series, MD-80 Series Caravelle BAe III Trident III 737-300 Trident I & II Mercure 2 L-100 580 (Avensa)
331-200 (A) 331-250 (E) 331-250 (F) 331-350 (C) 331-400, 600 331-500(B)	FS47-11 CH31547C** or CH31769 (long life)	75153 369949-3 305766-1	Lockheed Boeing Airbus Industrie Airbus Industrie Canadair McDonnel Douglas Boeing	Electra B737-600,-700,-800, 900, -131-9B, B757, B767 A300, A310 331-350, A330/340 CL-6l00-2B19 MD-88 B777-200, -300
30-54 30-95, 141 30-92	CH31615**  CH31615**	369964-5  369964-5	Fairchild Convair Hawker Siddeley Lockheed Dassault	F27 600 DH125 Jetstar Falcon
660-4/4R 36-4A 36-6 36-16/-16A 36-28 36-50	FS118-1A** CH31615** FHE159-6	369949-1T 369964-5 3888002-1	Boeing Fokker Grumman NAMC Fokker Fokker	747 F28 GII YS-11 VFW614 F28
36-100 (E), (M)	CH34249 or CH34492 or CH31713 CH34553 CH34585	3888096-1 3888096-2 369964-6 3888096-3 3888096-4	Dassault Canadair Fokker Hawker Siddeley DeHavilland British Aerospace	Falcon 50, Falcon 20G CL-600, 601, 604 F28 HS125-700 DHC-5 BAe146-100/200
131-9A 131-9B 131-9D 36-150RJ	CH31921 CH31769 CH34803 CH34549	305766-4 305766-1 3888267-4 304634-2	Airbus Boeing McDonnell Douglas Canadair	A319, A320, A321 737-NG MD90-30, MD-88, DC-9 CL-RJ, CRJ200

\*\*Includes Installation Gaskets

49



---

TURBINE ENGINE APPLICATIONS (GPU)			
Engine Mfr. & Model	Champion Part No.	Engine Mfr. Part No.	Applications
<b>ALLIEDSIGNAL AUXILIARY POWER (ASAP)</b>			
85-90	FS47-11 (HV) or	75153	Various Ground Power Equipment Manufacturers
85-91	FHE118 (LV), (-1B)		
85-291	CH31723 or	373399 or 369162	
85-184	CH31824 (long life)	3888210-1	
<b>PRATT &amp; WHITNEY CANADA, INC.</b>			
ST6L-77	CH34055	3035102	AIRCO

## This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

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



## Table of Contents



<b>MODEL/PART NO.</b>	<b>EQUIPMENT DESCRIPTION</b>	<b>PAGE</b>
Model 2600A & 2600AX-CE*	Spark Plug Vibrator Cleaner	52
Model CT-475AV-CE*	Cleaner and Tester	52
CT-906	Plug Master Flex-Handle Ratchet Wrench	53
CT-907	Plug Mate Magnetic Spark Plug Socket	53
No. 2612	Spark Plug Lubricant	53
CT-709	Oil Filter Wrench	54
CT-913A, B	Lead-Master Wrenches	53
CT-456A	Spark Plug/Igniter Viewer	53
CT-496	Igniter Lead Connector Wear Gauge	54
CT-497	Igniter Lead Connector Wear Gauge	54
CT-911 & CT-912	T-Handle Wrenches	53
CT-449	Thread Clean-Out Tool	54
CT-457	Fine Wire Gap-Setting Tool	54
CT-415AV	Gap-Setting Tool	54
CT-450	Retractable Gap Gauge	54
Model 2500A	Gap-Setting Tool	56
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

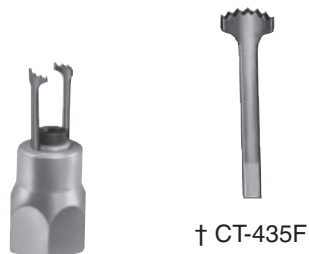
# Service Tools & Equipment



# Service Tools & Equipment

## Model 2600A Domestic/Model 2600AX-CE\*

### 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 AC  
(Domestic)

Electrical Requirements: 220 V 50 Hz AC  
(Export)

#### 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-CE\* (Export)

### 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 30.7cm)

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: 115/230 V (50 - 60 HZ 35 W)

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

**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

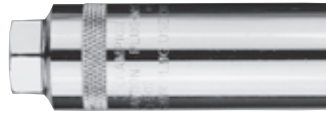
**Note:** Use 91893 abrasive charge only. (See Replacement Parts List.)  
Model 800 Cleaners, use two (2) charges.

**LICENSE ARRANGEMENT:** Champion service tools are distributed under license by Kell-Strom Tool Company, Wethersfield, CT.

\*Pending Approval



# Service Tools & Equipment



CT-906	CT-907	CT-456A
<b>Plug Master Flex-Handle Ratchet Wrench</b> (Formerly CT-405)	<b>Magnetic Spark Plug Socket</b> (Formerly CT-430)	<b>Spark Plug/Igniter Viewer</b>
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.	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.	Permits close examination of fuel deposits over the entire length of the insulator nose revealing incomplete or uneven abrasive cleaning. Detects cracked or chipped insulators. Checks condition of electrode sparking surfaces and dramatizes the need for replacement of worn-out spark plugs.
<u>Approximate Length:</u> 11" (27.9 cm) long	<u>Finish:</u> Chrome	<u>Size:</u> New
<u>Weight:</u> 12 oz. (340 g) Packed individually.	<u>Length:</u> 3-1/2" (8.9 cm) 3/8" (0.95 cm) square drive 7/8" (2.2 cm) deep hex.	<u>Replacement Bulb:</u> P/N: 2300-350-000
	<u>Weight:</u> 8-1/2" oz. (241 g) Packed individually.	

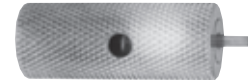


CT-913A, B	CT-911 & CT-912	No. 2612
<b>LeadMaster Wrenches</b>	<b>T-Handle Wrenches</b>	<b>Spark Plug Thread Lubricant</b>
Lead-Master wrenches reduce time to remove and install spark plug ignition leads, also permits short arc turning due to 12-point grip head.	CT-911 Special 3/4" (1.9 cm) open box wrench.	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.
<u>Shipping Weight:</u> 9 oz. (280 g)	<u>Shipping Weight:</u> 4 oz. (112 g)	<u>Size:</u> 5-5/8" x 7-1/4" x 5-1/4" (14.4 x 18.4 x 13.3 cm)
	CT-912 Special 7/8" (2.2 cm) open box wrench.	<u>Shipping Weight:</u> 4 lbs. (1.814 kg)
	<u>Shipping Weight:</u> 4 oz. (112 g)	

**LICENSE ARRANGEMENT:** Champion service tools are distributed under license by Kell-Strom Tool Company, Wethersfield, CT.



# 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-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-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-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-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-457

### Fine Wire Gap Setting Tool

Designed exclusively for adjusting fine wire electrode spark plug gaps. Two sizes of slots fit all platinum or iridium ground electrodes for quick, safe adjustment. Red plastic case.

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.

## CT-497

### Igniter Lead Wear Gauge

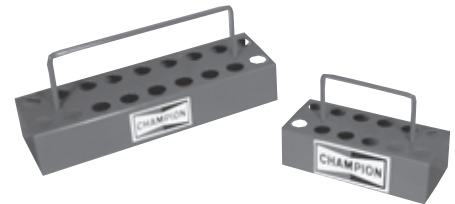
Igniter lead connector wear gauge for ARP670 Type 3M fittings common to TPE6331, TFE731 leads and others. Features a spring weighted pin for an accurate "pull test" of connectors.

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.



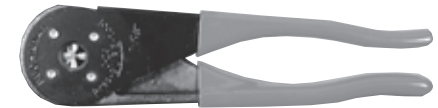
## CT-446 & CT-446-18

### 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.



## 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)

**LICENSE ARRANGEMENT:** Champion service tools are distributed under license by Kell-Strom Tool Company, Wethersfield, CT.

# 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-924

### Can Holder

The CT924 Holder will be a welcome addition to the shop floor to contain spills that might occur during the filter cutting process. It is simple to use and can be used on a machine vise or permanently mounted on a top bench with an optional adapter.

## 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-925

### Media Cutter



The CT925 Media Cutter allows the filter media to be cut, removed and analyzed in a very neat and orderly fashion. This tool is designed with safety in mind and it greatly reduces the chance of the operator being cut. Other benefits are timesaving and a filter sample with no contamination compared with previous methods of cutting. The CT925 media cutter adapts to all Champion filters in the marketplace.



## No. 91893

### Abrasive Compound

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.



## CT-498

### Igniter Erosion Gauge

A special tool designed specifically to measure the firing end erosion wear of Champion CFM56 series igniters. Calibrated to determine the extent of erosion of the undercut area of the steel not easily visible to the eye. The measuring tip is shaped to reach into the undercut, true-wear area. For use with Champion CH31806 and CH31900 igniters only.

**Size:** 6-1/4" x 4-1/4" x 1-1/2"  
(15.8 x 10.7 x 3.8 cm)

**NOTE:** The tool is not interchangeable with the CT492 which is similar.

## CT-492

### Igniter Erosion Gauge (Formerly CT-468)

A special tool designed specifically to measure the erosion-wear of Champion AA series igniters. Calibrated in color scale segments to determine the extent of erosion of the undercut area of the steel shell, not easily visible to the eye. Measuring tips shaped to reach into the undercut, true-wear area. Instructions for use included in special plastic box.

**Size:** 6-1/4" x 4-1/4" x 1-1/2"  
(15.8 x 10.7 x 3.8 cm)

**Shipping Weight:** 10 oz. (238 g)

The chart below should be followed when replacing abrasive:

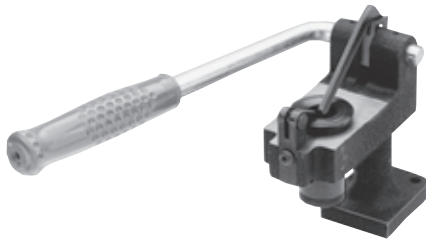
1. Use two bags of 91893 abrasive to fully charge Champion 2400, 800H, 800E and 700 cleaners.
2. Use one bag of 91893 to fully charge the CT475AV cleaner/tester.

Each bag of abrasive contains one #622 nozzle tip. Operators using two bags of abrasive should remember to remove and save the extra nozzle tip.

**LICENSE ARRANGEMENT:** Champion service tools are distributed under license by Kell-Strom Tool Company, Wethersfield, CT.



# Service Tools & Equipment



## 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	Toggle Arm ( <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" (0.15-.019/0.40-0.50mm)
GT-1-17J	Spacing Gauge .018" (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 .015 - .019" (0.40 - 0.50 mm)
1 Qty.	GT-1-27	Spacing Gauge Handle Assembly.

## Current/Discontinued Aviation Spark Plugs

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

Champion service tools are distributed under license by Kell-Strom Tool Company, Wethersfield, CT.

\* Racing Spark Plug Only.

## CHAMPION AEROSPACE PRODUCTS WARRANTY

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

Champion Aerospace, Inc. ("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.

**NOTE:** All service tools and test equipment bearing the Champion logo are distributed by Kell-Strom Tool Company, Inc. under license from Champion Aerospace, Inc. and are subject to the terms of a separate warranty provided by Kell-Strom Tool Company, Inc. All claims in connection with such products should be referred to Kell-Strom Tool Company, Inc., 214 Church Street, Wethersfield, CT 06109.

### CHAMPION AEROSPACE, INC. LIMITATION OF LIABILITY

If Champion Aerospace, Inc. ("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, Inc. Warranty Statement.

### **For Technical Assistance Contact:**

Champion Aerospace, Inc.  
Product Support/Technical Services  
1230 Old Norris Road Liberty, SC 29657  
864-843-5400

Email: support @champaero.com or BillAustin@champaero.com





# Champion Aerospace, Inc.

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



Helicopter  
Association  
International



NATIONAL  
AIR  
TRANSPORTATION  
ASSOCIATION



Professional Aviation Maintenance Association



National Business Aircraft Association, Inc.

Distributed by:

