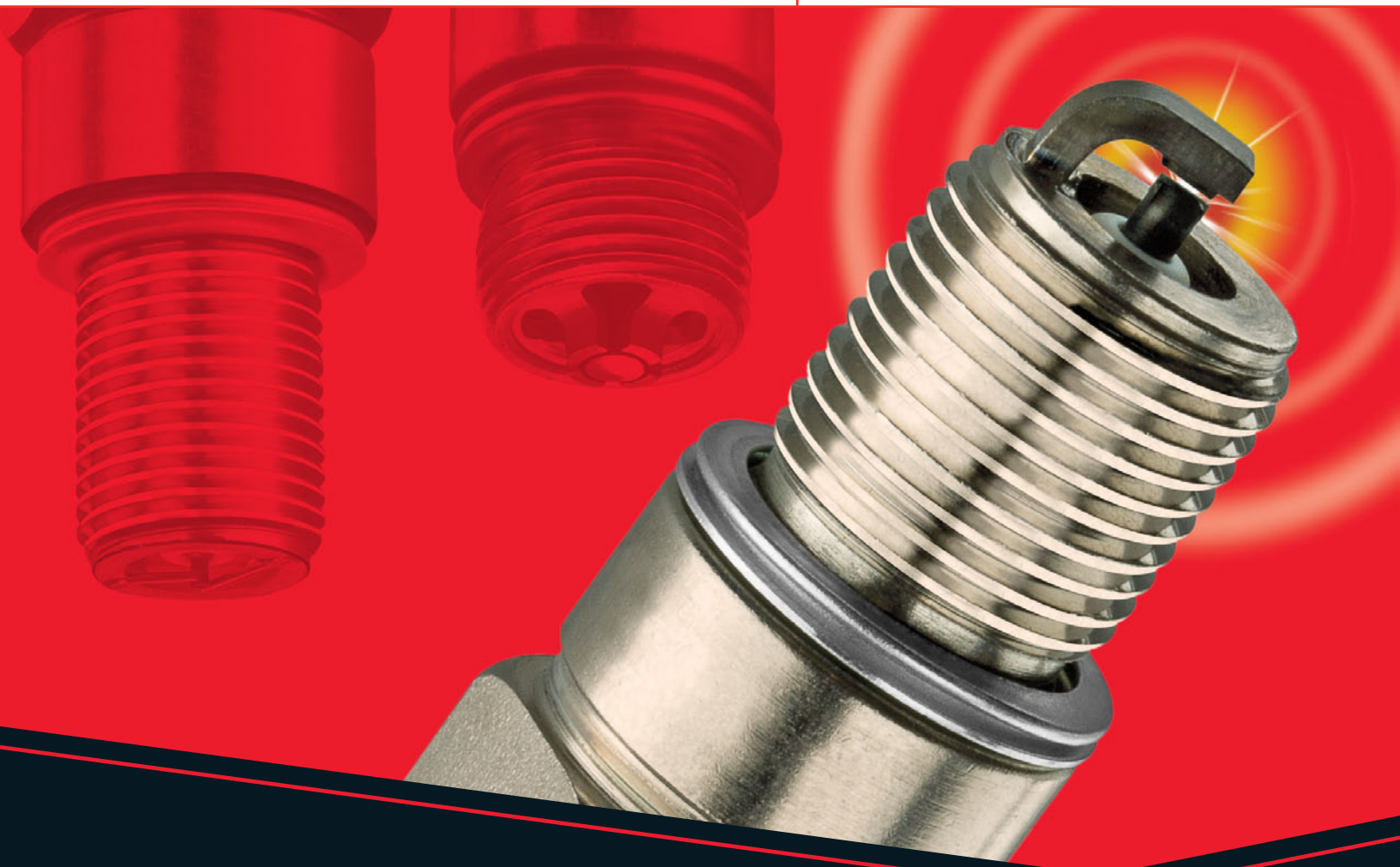


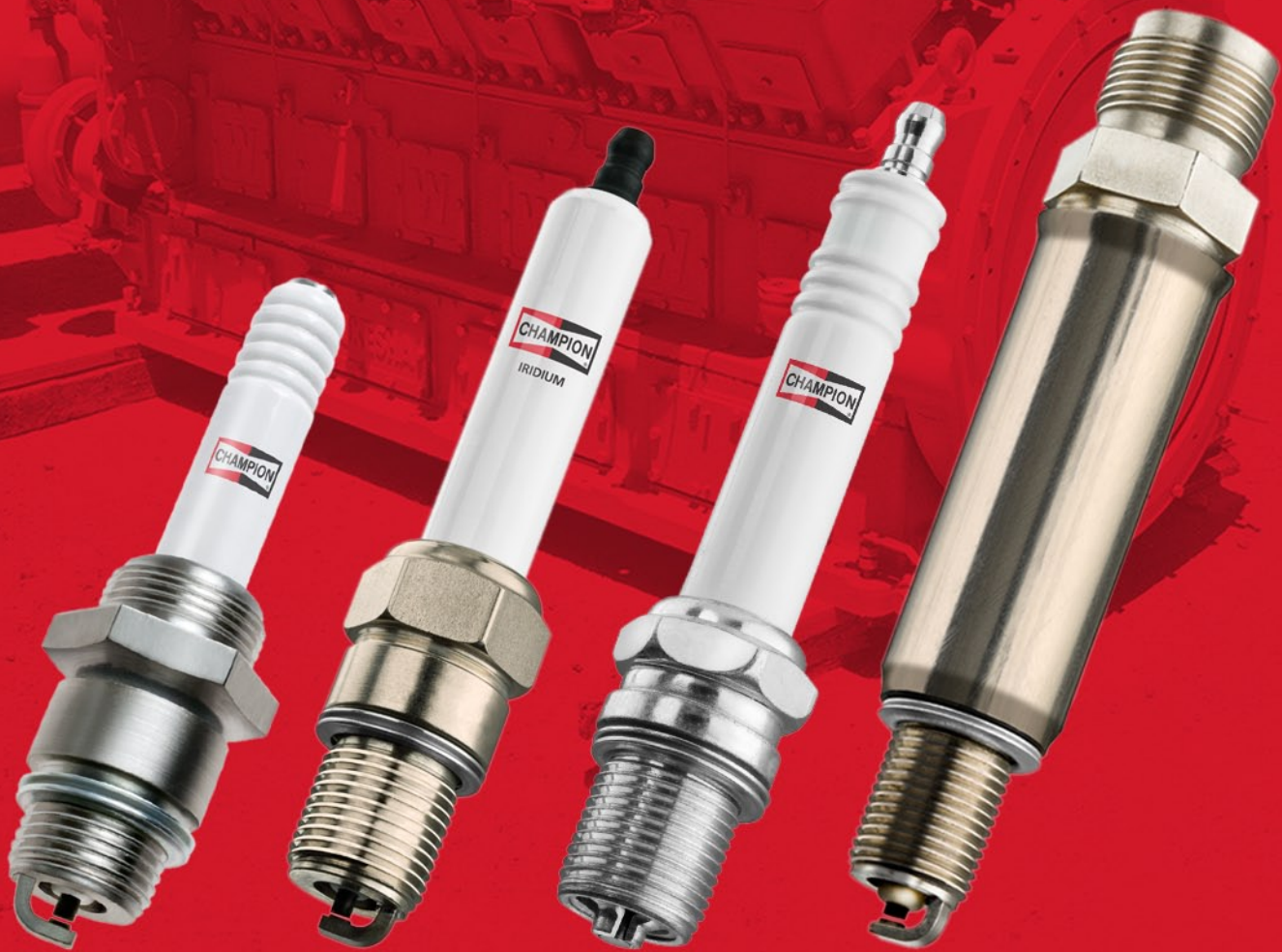


Industrial Spark Plug
Application Catalog

2012



**PERFORMANCE
DRIVEN™**



Industrial Power



GENERAL INFORMATION

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18mm



13/16"

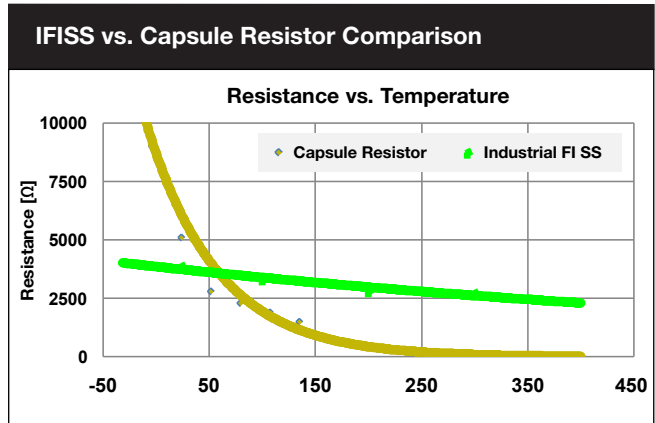


7/8"

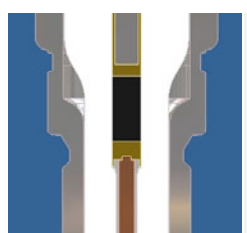


Solutions Driven by Performance.

| B-Series Category Overview | |
|----------------------------|-----------|
| Champion® Iridium | FB77WPCC |
| | KB77WPCC |
| | RB77WPCC |
| | RB77WPC |
| Champion Platinum | RB75PP |
| | RB76PP |
| Champion Integral Coil | RTB77WPCC |
| Champion Copper | RB77CC |
| | RB77N |
| | RB75N |
| | KB75N |
| | RB76N |



IFISS offers tight resistance control across the entire temperature operating window, magnitudes improvement vs. capsule resistor



Specifically designed for industrial applications, IFISS is a fired in suppressor seal, which significantly improves both resistance and suppression capability over the life of the plug.

Pictured Plug:
FB77WPCC

High-alumina content insulator with stronger, highly damage-resistant cross-section ensures superior durability.

IFISS technology engineered specifically for demanding, high-temperature/high-load applications requiring consistent resistance throughout the plug's service life.

Hot-Lock Nickel Plated Shell Seal dramatically increases strength, rigidity and resistance to lift.

| WPCC | PP | CC | N |
|---|---|---|---|
|  <p>Champion® Iridium spark surface for improved resistance to wear. Advanced rectangular bar design provides improved ignitability and longer life.</p> |  |  |  |



18mm



1/2"

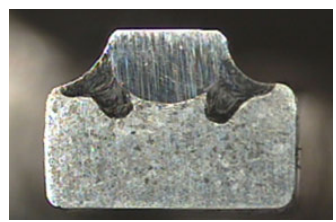


7/8"



| M-Series Category Overview | |
|-------------------------------|--|
| Champion® Iridium | RM82WPCC |
| Champion Platinum | RM77PP |
| Champion Shielded | RHM78WPCC RHM78PP RHM83N RHM77N RHM78N REM84P REM77N |
| Champion Integral Coil | RTM82WPCC RTM77PP RTM79N RTM77N RTM78N RGM86N |
| Champion Copper | RM77N RM85G |

Advanced Laser Welding Process



Super Modulated Continuous Wave (SMCW) Laser Benefits

- Consistent/uniform weld penetration and coverage
- Improved bi-metal alloying through improved heat/energy control
- Multi-configuration compatible (precious metal)
- Fully automated
- Weld parameter/input flexibility


Pictured Plugs:
RM77N (Left)
RTM82WPCC (Right)

High-alumina content insulator with stronger, highly damage-resistant cross-section ensures superior durability.

M-Series also offers many Integral Coil and Shielded plug designs for all applications.



N

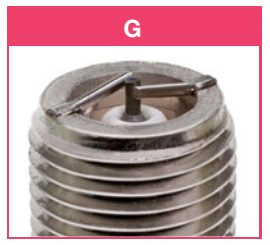


Massive surface area with the four ground electrode firing end to extend the life of the plug.

WPCC



Super modulated continuous wave laser welding of platinum ground electrode creates high-strength bond with base material.





14mm



3/4"

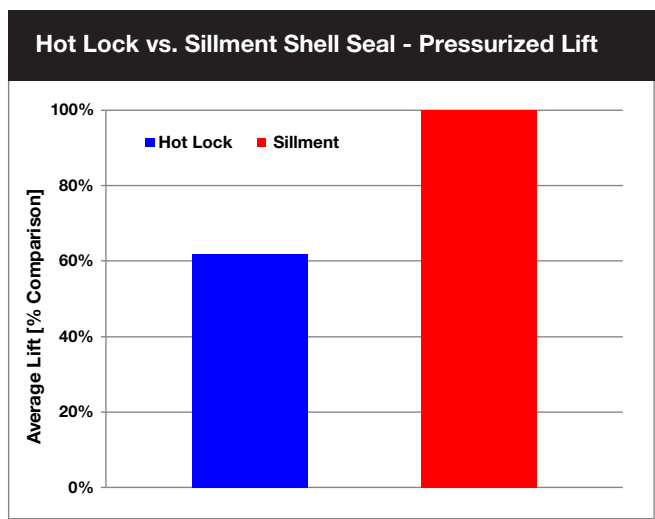


13/16"



Powered by Double Fine Wire Technology.

| N-Series Category Overview | |
|----------------------------|---------|
| Champion Platinum | RN79PYP |
| Champion Gold/Palladium | RN79G |
| Champion Shielded | RHN79G |
| Champion Integral Coil | RTN79G |



- At 55MPa applied pressure, the new hot-lock design shows a 40% reduction in core lift due to increased shell rigidity and pre-assembled load.
- Increased rigidity and pre-assembled load also provides a more consistent, evenly distributed, and higher compression load at the lower shell seat, resulting in improved sealing against combustion gases.

Pictured Plug:
RN79G

Sure-Fire advanced ceramic body.



Hot-Lock Nickel Plated Shell Seal dramatically increases strength, rigidity and resistance to lift.



G



Gold/Palladium fine wire technology that extends the life of the plug through heat transfer and ignitability.

PYP





14mm



3/4"

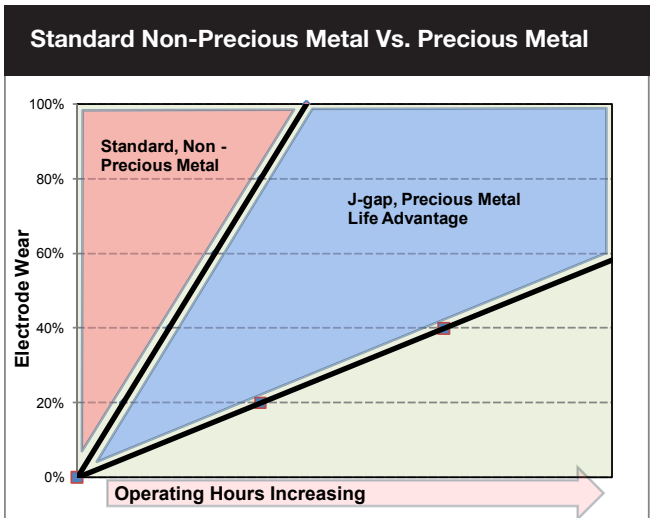


5/8"



Full Product Offerings for Transit Solutions.

| C-Series Category Overview | |
|----------------------------|------------------------------|
| Champion® Iridium | RC78WYP RC78WP |
| Champion Platinum | RC78PYP |
| Champion Shielded | EP3RCWYP15-1 EP8RCWYP15-2 |
| Champion Copper | RC78YCC |



Non-Precious Metal vs. Precious Metal spark plug has a direct effect on the life and maintenance schedule of your engine. Precious Metal plugs provide significantly longer required life between service intervals improving efficiency by reducing the amount of plug service stops to maintain the engine.

Pictured Plug:
RC78WYP

Sure-Fire™ advanced ceramic body.



Hot-Lock Nickel Plated Shell Seal dramatically increases strength, rigidity and resistance to lift.

WYP



Massive Champion® Iridium center electrode and Platinum ground electrode design provides longer life.

PYP



YCC





| SUPPRESSOR / SHIELDING | |
|------------------------|--------------------------------|
| Letter | Description |
| E | Shielded 5/8"-24 |
| F | Industrial Resistor |
| H | Shielded 3/4"-20 |
| K | Resistor (Special Application) |
| M | Shielded 5/8"-24 Ordnance |
| R | Resistor |
| T | 13/16"-20 Thread Above Hexagon |
| U | Auxiliary Gap |
| X | Resistor (Special Application) |

| SHELL DESIGN | | | |
|--------------|-------------|---------------|--------------|
| Letter | Thread Size | Reach | Hex |
| B | 18mm | 13/16" | 7/8" |
| C | 14mm | 3/4" | 5/8" |
| D | 18mm | 1/2" | 7/8" |
| GC* | 7/8"-18 | All | 7/8" |
| GM* | 18mm | All | 7/8" |
| H | 14mm | 7/16" | 13/16" |
| J | 14mm | 3/8" | 13/16" |
| L | 14mm | 1/2" or .472" | 13/16" |
| M | 18mm | 1/2" | 7/8" |
| N | 14mm | 3/4" | 13/16" |
| S | 1-1/8" | 5/8" | 1" |
| W | 7/8"-18 | All | 15/16" or 1" |
| X | 14mm | 1/2" or .500" | 5/8" |

| HEAT RANGE / APPLICATION | |
|--------------------------|-------------------------------------|
| Ref. # | Description |
| 1-25 | Automotive, Small Engine & Ordnance |
| 75-99 | Industrial & Special Applications |

| FIRING END DESIGN | |
|-------------------|---|
| Letter | Description |
| B | Two Ground Electrodes |
| C | Copper Plus Design |
| D | Protruding Nose, Round Ground Electrode |
| F | Three Ground Electrode |
| G | Fine Wire -- Semi-Precious Electrode |
| J | Cutback Ground Electrode, Includes Modified Gap |
| N | Four Ground Electrode |
| P | Platinum Electrode |
| R | Push Wire |
| Y | Standard Projected Core Nose |
| *PP | Double Platinum |
| *PYP | Projected Double Platinum |
| *WP | Iridium/Platinum |
| WPC | Iridium/Platinum/Copper |
| WPCC | Iridium/Platinum/Double Copper |

| SPECIAL GAP DESIGNATION | |
|-------------------------|-----------------|
| No. | Description |
| 15 | Gapped at .015" |
| 17 | Gapped at .017" |
| 21 | Gapped at .021" |
| 25 | Gapped at .025" |

* 1"-20 Female Connector

The plug type on a spark plug is composed of a basic "Heat Range" number with letters and numbers to indicate major features of the plug design. These charts contain a detailed example of the Champion Sales Symbol.

* Includes Copper Plus Design

| ANTIPARASITE / BLINDAGE | |
|-------------------------|---|
| Lettre | Description |
| E | Électrode protégée 5/8 po-24 |
| F | Résistance Industrielle |
| H | Électrode protégée 3/4 po-20 |
| K | Résistance (application spéciale) |
| M | Électrode protégée 5/8 po-24 Matériel militaire |
| R | Résistance |
| T | Hexagone à filetage supérieur 13/16 po-20 |
| U | Écartement auxiliaire |
| X | Résistance (application spéciale) |

| MODÈLE DE CULOT | | | |
|-----------------|---------------------|--------------------|------------------|
| Lettre | Calibre de filetage | Portée | Hexagone |
| B | 18mm | 13/16 po | 7/8 po |
| C | 14mm | 3/4 po | 5/8 po |
| D | 18mm | 1/2 po | 7/8 po |
| GC* | 7/8 po-18 | Toutes | 7/8 po |
| GM* | 18mm | Toutes | 7/8 po |
| H | 14mm | 7/16 po | 13/16 po |
| J | 14mm | 3/8 po | 13/16 po |
| L | 14mm | 1/2 po ou 0,472 po | 13/16 po |
| M | 18mm | 1/2 po | 7/8 po |
| N | 14mm | 3/4 po | 13/16 po |
| S | 1-1/8 po | 5/8 po | 1 po |
| W | 7/8 po-18 | Toutes | 15/16 po ou 1 po |
| X | 14mm | 1/2 po ou 0,500 po | 5/8 po |

| GAMME THERMIQUE / APPLICATION | |
|-------------------------------|---|
| Ref. # | Description |
| 1-25 | Automobiles, petits moteurs, matériel militaire |
| 75-99 | Applications industrielles et spéciales |

| ALLUMAGE ET CONCEPT | |
|---------------------|---|
| Lettre | Description |
| B | Deux électrodes de masse |
| C | Concept Copper Plus |
| D | Pointe saillante, électrode de masse ronde |
| F | Trois électrodes de masse |
| G | Fil fin -- électrode en pierre semi-précieuse |
| J | Électrode de masse raccourcie avec écartement modifié |
| N | Quatre électrodes de masse |
| P | Électrode en platine |
| R | Fil de poussé |
| Y | Pointe en saillie ordinaire |
| *PP | Double platine |
| *PYP | Pointe en saillie double platine |
| *WP | Iridium/ platine |
| WPC | Iridium/ platine/ cuivre |
| WPCC | Iridium/ platine/ double cuivre |

| DÉSIGNATION D'ÉCARTEMENT SPÉCIAL | |
|----------------------------------|------------------------|
| N° | Description |
| 15 | Écartement de 0,015 po |
| 17 | Écartement de 0,017 po |
| 21 | Écartement de 0,021 po |
| 25 | Écartement de 0,025 po |

* Raccord femelle 1 po - 20

Le symbole de vente figurant sur une bougie se compose d' un numero de "gamme thermique" de base ainsi que de lettres et de chiffres indiquant les caractéristiques principales du modèle de bougie. Les tableaux ci-dessus donnent un exemple détaillé d' un symbole de vente Champion.

* Avec concept Copper Plus

| SUPRESOR / PROTECCIÓN | |
|-----------------------|---|
| Letra | Descripción |
| E | Blindado 5/8" - 24 |
| F | Resistor Industrial |
| H | Blindado 3/4" - 20 |
| K | Resistor (aplicación especial) |
| M | Blindado 5/8" - 24 armamento |
| R | Resistor |
| T | Rosca por encima del hexágono 13/16" - 20 |
| U | Separación entre puntas auxiliar |
| X | Resistor (aplicación especial) |

| DISEÑO DEL RECUBRIMIENTO | | | |
|--------------------------|-----------------|---------------|-------------|
| Letra | Tamaño de rosca | Distancia | Hex. |
| B | 18mm | 13/16" | 7/8" |
| C | 14mm | 3/4" | 5/8" |
| D | 18mm | 1/2" | 7/8" |
| GC* | 7/8" - 18 | Todas | 7/8" |
| GM* | 18mm | Todas | 7/8" |
| H | 14mm | 7/16" | 13/16" |
| J | 14mm | 3/8" | 13/16" |
| L | 14mm | 1/2" ó 0,472" | 13/16" |
| M | 18mm | 1/2" | 7/8" |
| N | 14mm | 3/4" | 13/16" |
| S | 1-1/8" | 5/8" | 1" |
| W | 7/8" - 18" | Todas | 15/16" ó 1" |
| X | 14mm | 1/2" ó 0,500" | 5/8" |

| GAMA TÉRMICA / APLICACIONES | |
|-----------------------------|---|
| No. ref. | Descripción |
| 1-25 | Automotriz, motores pequeños, armamento |
| 75-99 | Aplicaciones industriales y especiales |

| DISEÑO DE EXTREMO DE ENCENDIDO | |
|--------------------------------|--|
| Letra | Descripción |
| B | Electrodo de dos tierras |
| C | Diseño Copper Plus |
| D | Electrodo redondo a tierra de punta saliente |
| F | Electrodo de tres tierras |
| G | Electrodo de alambre fino semiprecioso |
| J | Electrodo de tierra recortado, incluye separación modificada |
| N | Electrodo de cuatro tierras |
| P | Electrodo de platino |
| R | Alambre de empuje |
| Y | Punta de núcleo saliente normal |
| *PP | Platino doble |
| *PYP | Platino doble saliente |
| *WP | Iridio/ Platino |
| WPC | Iridio/ Platino/ Cobre |
| WPCC | Iridio/ Platino/ Cobre doble |

| DISEÑO ESPECIAL DE SEPARACIÓN ENTRE PUNTAS | |
|--|------------------|
| No. | Descripción |
| 15 | Separados 0,015" |
| 17 | Separados 0,017" |
| 21 | Separados 0,021" |
| 25 | Separados 0,025" |

* Conector hembra 1" - 20

El símbolo de ventas de una bujía está compuesto por un número básico de "gama térmica" con letras y números para indicar las propiedades importantes del diseño de la bujía. Estas tablas contienen un ejemplo detallado del símbolo de ventas de Champion.

* Incluye diseño Copper Plus



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---------------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| ABC | | | | | | | | | | | | | |
| Washing Machines | | | | | | | | | | | | | |
| All Models ABC | | | | 569 | W14 | .025 | | | | | | | |
| AJAX | | | | | | | | | | | | | |
| (Cooper Energy Services) | | | | | | | | | | | | | |
| 6-1/2x8CMA, EA30 | | | | 589 | W89D | .030 | | | | | | | |
| 7-1/4x8CMA, E30, 7-1/2x10CMA, E42 | | | | 589 | W89D | .030 | | | | | | | |
| CMA, C30, 7-1/2x10, CMA, EA22 6-1/2x8 | | | | 569 | W14 | .030 | | | | | | | |
| DP115, DP125 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DP160, DPC160 11x14 | | | | 518 | W18 | .030 | | | | | | | |
| DP165, DP300, DP325 15x16 | | | | 518 | W18 | .030 | | | | | | | |
| DP230, DP250 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DP60, DPC60, DPC120 9-1/2x12 | | | | 518 | W18 | .030 | | | | | | | |
| DP80, DPC80 11x14 | | | | 518 | W18 | .030 | | | | | | | |
| DPC115, DPC140 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC162, DPC180, DPC300 15x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC180LE, DPC360LE Main Chamber | | | | 518 | W18 | .030 | | | | | | | |
| DPC180LE, DPC360LE Pre Chamber | 1207 | RW80PP | .015 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| DPC230, DPC280 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC360, DPC540 15x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC600, DPC800 | | | | 518 | W18 | .030 | | | | | | | |
| DPC600LE, DPC800LE Main Chamber | | | | 518 | W18 | .030 | | | | | | | |
| DPC600LE, DPC800LE Pre Chamber | 1207 | RW80PP | .015 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| DPC81 10-1/2x12, DPC105 12x14 | | | | 518 | W18 | .030 | | | | | | | |
| E15 5-1/4x8, E42, C40, C42 8-1/2x10 | | | | 569 | W14 | .030 | | | | | | | |
| WL, EA15 5x6-1/2 | | | | 569 | W14 | .030 | | | | | | | |
| ALLIS-CHALMERS | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| G-138, G-149, G-160, 14 Power Units | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| G-226 3/8" Reach | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 871 | RJ8C | | | | | | | | |
| G-226, G-262 3/4" Reach | | | | 123 | RN5C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| P-1879, PC-1879, PC-2505, PCS-2505 | | | | 509 | D9 | .025 | | | | | | | |
| LOW GRADE FUEL | | | | | | | | | | | | | |
| G-226 3/4" Reach | | | | 405 | RN14YC | .030 | | | | | | | |
| G-226, W-201 3/8" Reach | | | | 592 | RJ12C | .030 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| G-138, G-149, 14 Power Units | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| G-160 | | | | 825 | J4C | .020 | | | | | | | |
| G-226 3/8" Reach | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 871 | RJ8C | | | | | | | | |
| G-226, G-262 3/4" Reach | | | | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| AMERICAN MOTORS | | | | | | | | | | | | | |
| 232, 258 cid 6-Cyl. | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| 304, 360 cid V-8 | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| ARIEL | | | | | | | | | | | | | |
| JGS-1 High Tension | 530 | RN79G | .012 | | | | | | | | 1232 | RTN79WYP | .012 |
| | | | | | | | | | | | 540 | RTN79G | |
| JGS-1 Low Tension | 530 | RN79G | | | | | | | | | 1232 | RTN79WYP | .012 |
| | | | | | | | | | | | 540 | RTN79G | |
| ARROW | | | | | | | | | | | | | |
| C46, C66, C96, C106, C255 | | | | 502 | D21 | .025 | | | | | | | |
| | | | | 543 | D89D | | | | | | | | |
| C96, C106, C255 | | | | 502 | D21 | .025 | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|--------------------|---------------------------------|--------------|---------------------------|---------------------------|--------------|-----------------------------|----------------------|---------------------|--------------|---------------------------------|------------------------------|--------------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| ARROW | | | | | | | | | | | | | |
| L-333, L-795, L-1770, L-2165, F-208 VRG220, VRG330 | 530 | RN79G | .015 | 589 123 120 | W89D RN5C N5C | .025 .025 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| Y-12, Y-18, Y-24, Y-33 | | | | 405 | RN14YC | .030 | | | | | | | |
| BARTON | | | | | | | | | | | | | |
| Washing Machines | | | | | | | | | | | | | |
| All Models BARTON | | | | 871 841 | RJ8C J8C | .030 | | | | | | | |
| BAUDOIN | | | | | | | | | | | | | |
| 6 or 12 P15.2 | | | | 685 | S59YC | .020 | | | | | | | |
| BERNARD | | | | | | | | | | | | | |
| All Models BERNARD | 1224 | RL85G | .015 | 830 306 | RL86C L86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| BUDA (See Allis-Chalmers) | | | | | | | | | | | | | |
| CASE | | | | | | | | | | | | | |
| 188G, 301G, 377G Gasoline | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| 188G, 301G, 377G Natural & LP Gas | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| A284, A377, 159G Gasoline | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| A284, A377, 159G Natural & LP Gas | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| CATERPILLAR | | | | | | | | | | | | | |
| D315G D318G G3304 copy the 1/2" reach and 3/4" rache | | | | | | | | | | | | | |
| NATURAL GAS | | | | | | | | | | | | | |
| 3306, G333 1/2" Reach 3306, G333 3/4" Reach, G343, G3304 | 1224 530 | RL85G RN79G | .015 .015 | 535 | RL15B | .015 | 551 575 | RHL79G RHN79G | | | 556 1232 540 | RTL85G RTN79WYP RTN79G | .015 .015 |
| G3400 Series | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| G342, G353, G375, G379 | 1224 1230 | RL85G FB77WPCC | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| G3500 Series | 634 636 1230 | RB77WPCC RB77WPC FB77WPCC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| G3600 Series | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| G3600 Series (Sensor Plug) G3600 Series (Sensor Plug) Bulbos | | | | 227 1211 | FI21505 FI21511 | | | | | | | | |
| G397, G398, G399 | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| STARTING ENGINES FOR DIESELS | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | |
| D320, D339, D342, D343, D353 D330, D333 | | | | 58 14 10 | RJ18YC RJ12YC J12YC | .030 .030 | | | | | | | |
| D375, D379, D397, D398, D4600 | | | | 58 | RJ18YC | .030 | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | |
| D320, D326, D337 | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| D339, D342, D343, D353 | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| D375, D379, D397, D398 | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| CHRYSLER | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | |
| 1976-75 H225, HB-225 H440 | | | | 406 63 10 | RV12YC RJ14YC J12YC | .035 .035 | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| CHRYSLER | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | |
| IND54 | | | | 58 | RJ18YC | .035 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| LH318, H170, HB170 | | | | 404 | RN12YC | .035 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| Thru 1974 H225, HB-225 | 530 | RN79G | .020 | 404 | RN12YC | .035 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 38 | N12YC | | | | | | 540 | RTN79G | |
| Normal Service | | | | | | | | | | | | | |
| 1975-73 440-3 (Motor Home) | | | | 400 | RV9YC | .035 | | | | | | | |
| 1976-75 H225, HB-225 | | | | 406 | RV12YC | .035 | | | | | | | |
| 1978 H105 | | | | 415 | RN9YC | .025 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| 1978-77 HB225 | | | | 406 | RV12YC | .035 | | | | | | | |
| 1978-77 L360, LH360 | | | | 404 | RN12YC | .035 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| 1978-77 LH318 | | | | 322 | RN11YC4 | .035 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| H273 | | | | 404 | RN12YC | .035 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| H318, HB318, HC318, HT318 | | | | 14 | RJ12YC | .035 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| H361, H383, H413, HA318 | | | | 63 | RJ14YC | .035 | | | | | | | |
| H440 | | | | 63 | RJ14YC | .035 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| HB361, HB383, HC361, HT361 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| HB413, HC413, HB170 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| HT413, HB426, HC426, H170 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| IND12A, IND19B, IND52 | | | | 871 | RJ8C | .035 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| IND14, IND14A, IND15, IND15A | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND16A, IND 18A, IND19A, IND20A | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND23A, IND24A | | | | 504 | N21 | .035 | | | | | | | |
| IND30, IND38, IND908A, IND931 | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND31, IND32, IND33 | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND53, IND56, IND56A | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| IND54 | | | | 58 | RJ18YC | .035 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| IND5A, IND6A, IND7A | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND8A, IND13, IND13A | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| LH318 | | | | 322 | RN11YC4 | .035 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| LT318 | | | | 129 | RF10C | .035 | | | | | | | |
| Thru 1974 H225, HB-225 | 530 | RN79G | .020 | 404 | RN12YC | .035 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 38 | N12YC | | | | | | 540 | RTN79G | |
| Severe Service | | | | | | | | | | | | | |
| H440 | | | | 63 | RJ14YC | .035 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| IND56, IND56A, LH318 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| NATURAL & LP Gas | | | | | | | | | | | | | |
| 1977 HB225 | | | | 406 | RV12YC | .020 | | | | | | | |
| H170, HB170, H225, HB225 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| CHRYSLER | | | | | | | | | | | | | |
| NATURAL & LP Gas | | | | | | | | | | | | | |
| H318, HB318, HC318, HT318 | | | | 14 | RJ12YC | .035 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| H361, H383, H413, HA318 | | | | 63 | RJ14YC | .035 | | | | | | | |
| HB361, HB383, HC361, HT361 | 530 | RN79G | .020 | 818 | RN2C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| HB413, HC413, HT413, HB426, HC426 | 530 | RN79G | .020 | 818 | RN2C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| IND13A, IND14, IND13A, IND14A, IND15 | | | | 871 | RJ8C | .020 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| IND15A, IND16A, IND30, IND31, IND32 | | | | 871 | RJ8C | .020 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| IND33, IND38, IND908A, IND931 | | | | 871 | RJ8C | .020 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| IND5A, IND6A, IND7A, IND8A, IND13 | | | | 871 | RJ8C | .020 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| CLARK (See Dresser Clark) | | | | | | | | | | | | | |
| CLEVELAND DIESEL | | | | | | | | | | | | | |
| Model 358 | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| CLIMAX | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| CE101, CE106, CE264 | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| CE46, CE66, CE81, CE96 | | | | 514 | D14 | .025 | | | | | | | |
| R-165 Snowplow Only | | | | 516 | D16 | .025 | | | 563 | XED16 | | | .025 |
| | | | | 555 | UD16 | | | | | | | | |
| V-80, V-85, V-122, V-125 8.2:1 C.R. | | | | 514 | D14 | .015 | | | | | | | |
| V-80, V-85, V-122, V-125 9.4:1 C.R. | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| COMPESCO | | | | | | | | | | | | | |
| Search for model - Natural gas pipe line | | | | | | | | | | | | | |
| CONTINENTAL | | | | | | | | | | | | | |
| ALL FUELS | | | | | | | | | | | | | |
| B20, 371, 421, R513, R572, R602 | | | | 509 | D9 | .025 | | | | | | | |
| N56 to 62, N4062, NA82, TS415 | | | | 509 | D9 | .020 | | | | | | | |
| S6749 to 6820, Y69, Y91, Y112 | | | | 509 | D9 | .020 | | | | | | | |
| U501, Z129, 134 | | | | 509 | D9 | .025 | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |
| 700, 800, 900, 1100, 1200 | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| All Other 14mm Heads | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| B405, 4124, 4140, 4162, 4163, 6226 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| B6244, 6245, 6277, 6371, 6405, 6427 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| C46, C66 | | | | 543 | D89D | .025 | | | | | | | |
| C96, C106, C225 | | | | 502 | D21 | .025 | | | | | | | |
| E223, F124, 135, 140, 162, 163, 186 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| F209, 226, 227, 244, 245 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| FO6228 | | | | 404 | RN12YC | .030 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| G134, 157, 176, H227, 243, 260 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| G193, K6271, 6298, 6330, 6363 | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| G4193 | | | | | | | | | 857 | RH18Y | | | .030 |
| J382 to 403, T371 to 247 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| CONTINENTAL | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |
| L478 | | | | 825 | J4C | .025 | | | | | | | |
| L6478 | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| M6271, 6290, 6330, 6363, OS220 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| Multi-Tool | | | | 592 | RJ12C | .025 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| R11, 14, 17 | | | | 327 | RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |
| R6513, 6572, 6602, U6501 14mm Heads | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| R6513, 6572, 6602, U6501 18mm Heads | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| R688-46, R800-46, R810-46, R839-46 | | | | 327 | RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |
| RS542, T6371, 6427, TC56 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| TM13, 20, 27 | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| TS415, Z134 | | | | 509 | D9 | .025 | | | | | | | |
| Y69, Y91, Y112, Y4069, 4091, 4112 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| Z105 to 120, ZA120 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| Severe Service | | | | | | | | | | | | | |
| F4163, F6227, F6245 | | | | 509 | D9 | .025 | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| All Other 14mm Heads | | | | | | | | | | | | | |
| | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| C46, C66, C96, C106, C255 | | | | 502 | D21 | .025 | | | | | | | |
| | | | | 543 | D89D | | | | | | | | |
| E223, F124, 162, 224, 226 | | | | 509 | D9 | .020 | | | | | | | |
| G193 | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| H280, 277, M271, 290, 330, 363 | | | | 509 | D9 | .020 | | | | | | | |
| J382 to 403 | | | | 509 | D9 | .020 | | | | | | | |
| S749, T247, 371 to 427 | | | | 509 | D9 | .020 | | | | | | | |
| COOPER - BESSEMER | | | | | | | | | | | | | |
| Shielded | | | | | | | | | | | | | |
| GAW, GMR, GMV, JS | 1207 | RW80PP | .012 | 545 | W85N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | 578 | REW82P | 534 | REW80N | 638 | RTW80N | |
| GMW, GMX V-250, V-275 5/8" Reach | | | | | | | 578 | REW82P | 534 | REW80N | | | .015 |
| GMWA, GMWC 5/8" Reach | | | | | | | 578 | REW82P | 534 | REW80N | | | .015 |
| GMWA, GMWC, GMW, GMX, V-250, V-275, Z330 1"Rch. | | | | | | | | | 635 | RHW78N | | | .012 |
| GMXE, GMWH, GMXH, W330 1" Reach | | | | | | | | | 635 | RHW78N | | | .012 |
| GMXE, GMWH, GMXH, W330 5/8" Reach | | | | | | | 578 | REW82P | 534 | REW80N | | | .015 |
| Unshielded | | | | | | | | | | | | | |
| ENG, GNG | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 222 | RHM78PP | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | | | 234 | RHM78N | 1201 | RTM78N | |
| GAB, GAF, GAG, GAJ, GAN | | | | 513 | C97B | .025 | | | | | | | |
| GAO, GAOA, GAR, GAU, GBE, GBE, GBG | | | | 513 | C97B | .025 | | | | | | | |
| GAS, EN, ENB; 'Hope' 14-3/4" x 16" | | | | 513 | C97B | .025 | | | | | | | |
| GAW, GMR, GMV, JS | 1207 | RW80PP | .012 | 545 | W85N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | 578 | REW82P | 534 | REW80N | 638 | RTW80N | |
| GBH, GBI, GBK | | | | 518 | W18 | .025 | | | | | | | |
| GBM thru GBP, GN, GSC, GSD | | | | 518 | W18 | .025 | | | | | | | |
| GDA thru GDS, GHA, GHB, GMD | | | | 513 | C97B | .025 | | | | | | | |
| GDJ, GMA, GMB, GMC w/G402 Reducing Bushing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 222 | RHM78PP | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | | | 234 | RHM78N | 1201 | RTM78N | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| COOPER - BESSEMER | | | | | | | | | | | | | |
| Unshielded | | | | | | | | | | | | | |
| GDT, GFB, GFE, GFK w/G402 Reducing Bushing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 222 | RHM78PP | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | | | 234 | RHM78N | 1201 | RTM78N | |
| GMG, GMO, GMOA, GRC | | | | 513 | C97B | .025 | | | | | | | |
| | | | | 513 | C97B | | | | | | | | |
| GMVH, LSVB | 228 | RW77PP | .012 | 565 | RW77N | .015 | | | 635 | RHW78N | 552 | RGC77N | .015 |
| | | | | 631 | RW78N | | | | | | | | |
| GMW, GMX, V-250, V-275, W330 5/8" Reach | 1207 | RW80PP | .012 | 553 | RW80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| GMWA, GMWC, GMW, GMX, V-250, V-275, Z330 1" Reach | 228 | RW77PP | .012 | 565 | RW77N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| | | | | 631 | RW78N | | | | | | | | |
| GMWC, GMWA 5/8" Reach | 1207 | RW80PP | .012 | 553 | RW80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| GMXE, GMWH, GMXH 5/8" Reach | 1207 | RW80PP | .012 | 553 | RW80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| GMXE, GMWH, GMXH, W330 1"Rch. | 228 | RW77PP | .012 | 565 | RW77N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| | | | | 631 | RW78N | | | | | | | | |
| GS | | | | 555 | UD16 | .025 | | | | | | | |
| "Hope" 18" x 20" | | | | 525 | 25 | .025 | | | | | | | |
| LS, LSV 1-1/8"-12 Heads | | | | 598 | RS79N | .012 | | | | | | | |
| LS, LSV 7/8"-18 Heads | | | | 510 | W10 | .015 | | | | | | | |
| | | | | 580 | W80N | | | | | | | | |
| Quad Series | 228 | RW77PP | .012 | 565 | RW77N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| | | | | 631 | RW78N | | | | | | | | |
| Z330 5/8" Reach | 1207 | RW80PP | .012 | 553 | RW80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| COOPER ENERGY SERVICES (See Superior) | | | | | | | | | | | | | |
| CP - CHICAGO PNEUMATIC | | | | | | | | | | | | | |
| 16CPG, RHGB-50 | | | | 518 | W18 | .025 | | | | | | | |
| 9CPG High Compression | | | | | | | | | 534 | REW80N | | | .015 |
| 9CPG Low Compression | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| Cat. D13000 And Other 7/8"-18 Heads | | | | 569 | W14 | .025 | | | | | | | |
| CUMMINS | | | | | | | | | | | | | |
| 6B | | | | 2095 | 2095 | .020 | | | | | | | |
| 6B w/230 hp | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .017 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| 6C | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .017 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| FTA19GC SLB | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| G3.9 | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| G5.9 | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| G5.9e | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| G8.3 | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| G8.3e | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| G855 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| G855e | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| GM11 | | | | | | | | | | | | | |
| GNHC-4, GNH-220, GNH-250 1/2" Reach | 1224 | RL85G | .025 | 535 | RL15B | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| GNHC-4, GNH-220, GNH-250 3/8" Reach | | | | 825 | J4C | .025 | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| CUMMINS | | | | | | | | | | | | | |
| GTA 8.3 | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| GTA8.3 SLB | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| GTA855 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| GTA855e | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| GV-12450, GM-12-525 3/8" Reach | | | | 825 | J4C | .025 | | | | | | | |
| GV-12450, GV-12-525 1/2" Reach | 1224 | RL85G | .025 | 535 | RL15B | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| KTA19GC | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| KTA38GC SLB | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| L-10 | 219 | RC78PYP | .021 | | | | | | | | | | |
| L10CNG | 1230 | FB77WPCC | | | | | | | | | | | |
| Q19G | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| QSV 81-V16 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| QSV 91-V18 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| Engines w/Special Adapter | | | | | | | | | | | | | |
| No. 173416 5/8" Reach w/N677 Gasket | 530 | RN79G | .025 | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| No. 90210035, 90210036 3/4" Reach | 530 | RN79G | .025 | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| VHP SERIES | | | | | | | | | | | | | |
| V-16 | | | | | | | | | | | | | |
| 9390G, P9390GSI | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| DECO-GRAND | | | | | | | | | | | | | |
| AU7B, DE8 | | | | | | | | | 567 | XEJ12 | | | .025 |
| DE2, DE2R, DE3, DE3R, DE7R, DEA8 | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| DELAVAL | | | | | | | | | | | | | |
| 1980-69 HV-8, HV-12, HV-16 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| 1980-72 HA6, HVA-8 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| 1980-73 HVA-16 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| 1980-74 HVA-12 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| DETROIT DIESEL | | | | | | | | | | | | | |
| 149 Series | 1230 | FB77WPCC | | | | | | | | | | | |
| 30, 40, 50 Series | 243 | RC78PYP15 | .015 | | | | | | | | | | |
| | 1205 | RB77WPCC | | | | | | | | | | | |
| 92 Series | | | | | | | | | | | | | |
| DEUTZ MWM | | | | | | | | | | | | | |
| G620 V-8, TBG616 V-8, TBG616 V-12 | 242 | RB75WPCC | .012 | | | | | | | | | | |
| TBG616K V-8K, TBG616K V-12K, TBG616K V-16K | 242 | RB75WPCC | .012 | | | | | | | | | | |
| TBG620 V-8, TBG620 V-12, TBG620 V-16 | 242 | RB75WPCC | .012 | | | | | | | | | | |
| TBG620K V-12K, TGB620K V-16K | 242 | RB75WPCC | .012 | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| DORMAN | | | | | | | | | | | | | |
| 12S, 12STCWG, 12STCAG, 6PG, 12PG | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 12SG | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 3DAG, 4DAG, 6DAG, 6QG, DATG4, 6 | 530 | RN79G | .015 | 880 | RN3C | .015 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | 801 | N3C | | | | | | 540 | RTN79G | |
| 6LEG | 1224 | RL85G | .015 | 874 | RL82C | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| | | | | 811 | L82C | | | | | | | | |
| 6PG, 12PG | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 6SEG, 8SEG, 12SEG | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| 6SETCWG | | | | 685 | S59YC | .015 | | | | | | | |
| 6SETCWG MinNox | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| DRESSER CLARK | | | | | | | | | | | | | |
| BA, HBA, HMA, HLA, HRA, MA | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| RA, TRA, TLA, TCV | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| Supercharged & Turbocharged | | | | | | | | | | | | | |
| HBAT, HLAT, HRAT, TRA, TLA | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| TCVB, TCVC, TVM, VMC | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| TLAB, TLAC, TLAD, TPV, TCVA | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| TVC, HSRA, RAS, TMB | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| DRESSER RAND | | | | | | | | | | | | | |
| KVG Pulse Chamber Type | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| KVSR, KVSRA, KVSE, KVFS, PKVSE | 228 | RW77PP | .012 | 565 | RW77N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| | | | | 631 | RW78N | | | | | | | | |
| TCV, TCVA, TCVD, TLAD | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| DRESSER Waukesha | | | | | | | | | | | | | |
| See Waukesha | | | | | | | | | | | | | |
| ECHO | | | | | | | | | | | | | |
| KEH202D, SV2 (Kioritz) | | | | 840 | RCJ8 | .025 | | | | | | | |
| | | | | 843 | CJ8 | | | | | | | | |
| ENTERPRISE | | | | | | | | | | | | | |
| GSG-36, 38; GSM-36, 38 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| GSM-36, 38 Unshielded 18mm Heads | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| GSM-36, 38 Unshielded 7/8"-18 Heads | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| HV-8, HV-12, HV-16 | 228 | RW77PP | .012 | 206 | RW77N | .015 | 1204 | RHW80PP | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| TDSG-36-6-38 Center of Head | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| TDSG-36-6-38 Rear Side Of Head | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| FAIRBANKS MORSE | | | | | | | | | | | | | |
| 38D8-1/8 Series | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 38DS8-1/8, 38F-85, 38FS5-1/4 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| FM-7, FM-12, FM-18, FM-24, FM-36 | | | | 589 | W89D | .025 | | | | | | | |
| ZC, ZC118, ZC208, ZC346 | | | | 589 | W89D | .025 | | | | | | | |
| ZC346, ZC503, ZC739 | | | | 589 | W89D | .025 | | | | | | | |
| FICHTEL-SACHS (See Sachs) | | | | | | | | | | | | | |
| FORD | | | | | | | | | | | | | |
| 104 cid | | | | 322 | RN11YC4 | .035 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|-------------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| FORD | | | | | | | | | | | | | |
| 140 cid (2.3L) | | | | 401 | RS12YC | .035 | | | | | | | |
| 144, 170 cid | | | | 22 | RF11YC | .035 | | | | | | | |
| 153 cid (2.5L) | | | | 401 | RS12YC | .035 | | | | | | | |
| 158, 175, 201, 256 cid | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| 182 cid (3.0L) | | | | 332 | RN7YC | .035 | | | | | | | |
| 200, 240, 250, 262, 292 cid | | | | 129 | RF10C | .030 | | | | | | | |
| 223, 272 cid | | | | 409 | RF9YC | .030 | | | | | | | |
| 300 cid (4.9L) | | | | 22 | RF11YC | .030 | | | | | | | |
| 330, 332, 361, 391, 401 cid | | | | 129 | RF10C | .030 | | | | | | | |
| 460, 429, 351, 302, 370 cid | | | | 406 | RV12YC | .035 | | | | | | | |
| 477 cid 1977 & Up | | | | 106 | RZF10 | .035 | | | | | | | |
| 477 cid Thru 1977 | | | | 129 | RF10C | .035 | | | | | | | |
| 534 cid 1976 & Up | | | | 106 | RZF10 | .035 | | | | | | | |
| 534 cid Thru 1976 | | | | 129 | RF10C | .030 | | | | | | | |
| 67 cid (1.1L) | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| 79 cid (1.3L) | | | | 304 | RS9YC | .035 | | | | | | | |
| 91, 120, 134, 172, 192 cid Gasoline | | | | | | | | | 854 | RH10C | | | .025 |
| | | | | | | | | | 844 | H10C | | | |
| 91, 120, 134, 172, 192 cid LP Gas | | | | | | | | | 538 | RH8C | | | .020 |
| | | | | | | | | | 587 | H8C | | | |
| 98 cid (1.6L) | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| CSG 850, CSG 850M-EFI | | | | 406 | RV12YC | .035 | | | | | | | |
| LSG 875 | | | | 406 | RV12YC | .035 | | | | | | | |
| WSG 858, WSG 858-HO | | | | 406 | RV12YC | .035 | | | | | | | |
| WSG 858, WSG 858-HO EFI, LSG875 | | | | 406 | RV12YC | .035 | | | | | | | |
| FUJI-ROBIN | | | | | | | | | | | | | |
| EC-02, EC-02R | | | | 849 | CJ6 | .025 | | | | | | | |
| EC-05, EC-07, FG-14 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EC-10, EY-21 | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| EY-13, EY-18, EY-25, EY-33 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EY-27, EY-14, EY-40, EC-16 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EY-44, EY-88, EC-03, EC-04 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| Series FA, KB, KD, KE, KH, KM | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| Kerosene Engines | | | | | | | | | | | | | |
| EY-13, EY-18, EY-25, EY-33, EY-44 | | | | 806 | L92YC | .025 | | | | | | | |
| GEMINI | | | | | | | | | | | | | |
| G26, G35 | 1224 | RL85G | .025 | 874 | RL82C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 811 | L82C | | | | | | | | |
| GENERAL MOTORS | | | | | | | | | | | | | |
| 16-358HN, 16-358-X | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| 305, 351, 401, 478, 702 Gasoline | 530 | RN79G | .025 | 104 | RN4C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 803 | N4C | | | | | | 540 | RTN79G | |
| 305, 351, 401, 478, 702 LPG | 530 | RN79G | .025 | 880 | RN3C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 801 | N3C | | | | | | 540 | RTN79G | |
| GUASCOR | | | | | | | | | | | | | |
| FG180, FGLD180, FG240 | 1230 | FB77WPCC | | | | | | | | | | | |
| | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | GAP |
|---|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | |
| GUASCOR | | | | | | | | | | | | | |
| FGLD240, FGLD360, FGLD480 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| HGM 560 | 1230 | FB77WPCC | | | | | | | | | | | |
| SFGLD 180, SFGLD 240, SFGLD 360, SFGLD 480, SFGLD 560 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| HALL SCOTT | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| 1091-G1 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 1091-OS Intake | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 136, 180, 190, 504 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 151, 152, 165, 167 | | | | 569 | W14 | .025 | | | | | | | |
| 200-0, 201-0; 400-0 Regular | | | | 514 | D14 | .025 | | | | | | | |
| 400-0 Water-Jacketed Exhaust | | | | 509 | D9 | .025 | | | | | | | |
| 400-0, 300, 470, 480 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 400-0, 470, 480 Sour Gas | | | | 597 | K97F | .020 | | | | | | | |
| 400-0, 470, 480, 6156 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 440, 2269-0; 1091-OS Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 590 Series | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| 6156, FE, G1, G2 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 6156-B1, 6182-B1, 1091-B1 Exhaust | | | | 506 | D6 | .025 | | | | | | | |
| 6156-B1, 6182-B1, 1091-B1 Intake | | | | 514 | D14 | .025 | | | | | | | |
| 6182, G1, G2, FE Intake | | | | 502 | D21 | .025 | | | | | | | |
| 779-GHI | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 855, 935 Exhaust | | | | 506 | D6 | .025 | | | | | | | |
| 855, 935 Intake | | | | 502 | D21 | .025 | | | | | | | |
| F3, G1, G2, 6182 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| G1, G2, FE; 1091G1 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 400-0, 470, 480, 855, 935 Exhaust | | | | 506 | D6 | .020 | | | | | | | |
| 400-0, 470, 480, 855, 935 Intake | | | | 514 | D14 | .020 | | | | | | | |
| 590 Series | | | | 825 | J4C | .025 | | | | | | | |
| HERCULES | | | | | | | | | | | | | |
| 1091-OS Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 1091-OS Intake | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 1404 | | | | 14 | RJ12YC | .025 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| 149H, 169H, 198AH, L237 | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| 14mm Heads Using Natural Gas | | | | 825 | J4C | .015 | | | | | | | |
| 6156, 6182 Natural & LP Gas Exhaust | | | | 506 | D6 | .025 | | | | | | | |
| 6156, 6182 Natural & LP Gas Intake | | | | 514 | D14 | .025 | | | | | | | |
| GTA 3.7, GTA 5.6 | 219 | RC78PYP | .025 | | | | | | | | | | |
| HXE, HXLEF | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| IXB | | | | 592 | RJ12C | .025 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IXLB, JXC, JXD, JXLD, 14mm Heads | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| JXLD, JXC 18mm Heads | | | | 509 | D9 | .025 | | | | | | | |
| JXLDER, IXBER, NXB, JX4LD | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| QXC, QXD, JX4C, GO6, JX4S, RXC | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| RXLDH, C2-90D, IXA, QXLD, GO4 | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| Thermo King | 644 | RJ88P | .015 | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| HERCULES | | | | | | | | | | | | | |
| Normal Service CV4-180, CV4-180ER | | | | 871 | RJ8C | .025 | | | | | | | |
| G-1000 Natural & LP Gas | | | | 841 | J8C | | | | | | | | |
| G298H | | | | 102 | RJ6C | .025 | | | | | | | |
| G3400 Power Unit (Magneto Ignition) | | | | 823 | J6C | | | | | | | | |
| G4800, GTA4800 | 1206 | RC78WP | .015 | 102 | RJ6C | .030 | | | | | | | |
| GO Series 226, 298, 339, 226AH | 218 | RC78PYP | | 823 | J6C | | | | | | | | |
| GO3, QXB, WXLC, GO | | | | 102 | RJ6C | .025 | | | | | | | |
| G-Series 1400, 1500, 1600, 1700 | | | | 823 | J6C | | | | | | | | |
| G-Series 2000, 2300, 3000, 3400 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| HOFFCO | | | | | | | | | | | | | |
| Powerhead (Power Products AV52) | | | | 840 | RCJ8 | .030 | | | | | | | |
| Powerhead (Tecumseh Engines) | | | | 843 | CJ8 | | | | | | | | |
| | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| HOPE (See Cooper-Bessemer) | | | | | | | | | | | | | |
| INGERSOLL - RAND | | | | | | | | | | | | | |
| Naturally Aspirated PKVG, KVGR, PKVGR | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 1207 | RW80PP | | 580 | W80N | | | | | | | | |
| XVG, PVG, JVG, SVG, KVG, PJV, PSVG | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 1207 | RW80PP | | 580 | W80N | | | | | | | | |
| KVS, KVR, KVSR w/Precombustion Chamber | 228 | RW77PP | .015 | 565 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 631 | RW78N | | | | | | | | |
| KVS-AT Thru ET Series | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| KVS-FT Series on Thru 1977 | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| Thru 1977 KVR, KVSR | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| Turbocharged Models | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 1207 | RW80PP | | 580 | W80N | | | | | | | | |
| TVS, TVR, SVS, KVT, KVH | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| PULSE GENERATOR IGNITION KVS, PKVG, KVGR, PKVGR | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| INTERNATIONAL | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | |
| U175, UC175, UC200, UC221, UC263 | | | | 549 | D18Y | .025 | | | | | | | |
| U220, UB220, U240, UB240 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC301, U164, U169, U281 | | | | 549 | D18Y | .025 | | | | | | | |
| UC60, U123, UC135, UC135B, UC153 | | | | 549 | D18Y | .025 | | | | | | | |
| UR501, RV549, U269, UR372 | | | | 14 | RJ12YC | .030 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|-----------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| INTERNATIONAL | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |
| C-152, C-196, C-304, C-345, C-392 | | | | 14 | RJ12YC | .030 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| C-446 | | | | 304 | RS9YC | .035 | | | | | | | |
| | | | | 408 | RS14YC | | | | | | | | |
| C-537, C-605 | 530 | RN79G | .015 | 322 | RN11YC4 | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | 302 | N11YC | | | | | | 540 | RTN79G | |
| C-549 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| T340 | | | | 509 | D9 | .025 | | | | | | | |
| U164, U169, U175 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| U164, U169, U175 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| U2, U2A, UC60, UC135 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| U2, U2A, UC60, UC135 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| UB240, UV266 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC135B, UC153 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| UC135B, UC153 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| UC135B, UC153, UC175 | | | | 526 | RD15Y | .025 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UC175, UC200, UC301 | | | | | | | | | 516 | D16 | | | .025 |
| | | | | | | | | | 555 | UD16 | | | |
| UC175, UC200, UC301 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| UC200, UC221, UC263, UC301, T6 | | | | 526 | RD15Y | .025 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UC221, UC263 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| UC221, UC263 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| UR372, UV304, UV345, UV392 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| Severe Service | | | | | | | | | | | | | |
| C-446 | | | | 304 | RS9YC | .035 | | | | | | | |
| | | | | 408 | RS14YC | | | | | | | | |
| U175, UC175, UC200, UC221, UC263 | | | | 506 | D6 | .025 | | | | | | | |
| U220, UB220, U240, UB240 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC301, U164, U169, U264, U281 | | | | 506 | D6 | .025 | | | | | | | |
| UC60, U123, UC135, UC135B, UC153 | | | | 506 | D6 | .025 | | | | | | | |
| UR501, UV549, U269, UR372 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| NATURAL & LP-GAS | | | | | | | | | | | | | |
| C-152, C-196, C-304, C-345, C-392 | | | | 14 | RJ12YC | .030 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| C-446 Normal Service | | | | 408 | RS14YC | .020 | | | | | | | |
| C-446 Severe Service | | | | 304 | RS9YC | .020 | | | | | | | |
| C-537, C-605 | 530 | RN79G | .015 | 322 | RN11YC4 | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| C-549 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| U175, UC153, UC175 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| U220, UB220, U240, UB240 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | GAP |
|---------------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | |
| INTERNATIONAL | | | | | | | | | | | | | |
| NATURAL & LP-GAS | | | | | | | | | | | | | |
| U817, U817B, UT817, UT817B 14mm Heads | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| U817, U817B, UT817, UT817B 18mm Heads | | | | 129 | RF10C | .015 | | | | | | | |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC135, UC135B, U164, U169 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UC221, UC263, UC301, U264, U281 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UC60, UC200 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UR501, U269, UR372, UV549 | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| JENBACHER | | | | | | | | | | | | | |
| BR3 | | | | | | | | | | | | | |
| J208 8-Cyl., J212 12-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| J216 16-Cyl., J312 12-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| J316 16-Cyl., J320 20-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| J612 12-Cyl. After 9/95 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| J612 12-Cyl. Thru 8/95 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| J616 16-Cyl. After 9/95 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| J616 16-Cyl. Thru 8/95 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| JLO - ROCKWELL | | | | | | | | | | | | | |
| G49, L35, L77, LV298, MM25, MM40 | 1224 | RL85G | .020 | 874 | RL82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| | | | | 811 | L82C | | | | | | | | |
| GA50 Updated Version, V49 | 1224 | RL85G | .020 | 874 | RL82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| | | | | 811 | L82C | | | | | | | | |
| L101, L152, L197 | | | | 509 | D9 | .025 | | | | | | | |
| L252, L292, L297, L372 | | | | 509 | D9 | .025 | | | | | | | |
| JOHN DEERE | | | | | | | | | | | | | |
| Gasoline | | | | | | | | | | | | | |
| 92, 115, 145, 165, 217, 232 | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 854 | RH10C | | | |
| LUC, LUH, LUW, LUS | | | | | | | | | 854 | RH10C | | | .025 |
| | | | | | | | | | 844 | H10C | | | |
| Series TA92, TB92, TA145, TA217 | | | | | | | | | 854 | RH10C | | | .025 |
| | | | | | | | | | 844 | H10C | | | |
| Natural & LP Gas | | | | | | | | | | | | | |
| 300 Series | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| 341, 400, 500 Series | | | | 514 | D14 | .025 | | | | | | | |
| 400, 500 Series Natural & LP Gas | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 596 | RHM77N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 596 | RHM77N | 1201 | RTM78N | |
| 6068NG | | | | | | | | | | | | | |
| 6076AFN30 (150 & 200 h.p.) | 1206 | RC78WP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| 6081NG | | | | | | | | | | | | | |
| 92, 115, 145, 165, 217, 232 | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 854 | RH10C | | | |
| Stationary Engine Type W, WSP | | | | 518 | W18 | .025 | | | | | | | |
| J-W POWER | | | | | | | | | | | | | |
| Superburn | 228 | RW77PP | .015 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| Superburn Pre-Cell | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| LISTER PETER | | | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| LISTER PETER | | | | | | | | | | | | | |
| Alpha Series LPWG2, 3 & 4 HR2G, HR3G | | | | 344 | RC9YC | .200 | | | | | | | |
| | | | | 506 | D6 | .015 | | | | | | | |
| | | | | 625 | D78Y | | | | | | | | |
| LORAIN | | | | | | | | | | | | | |
| 30, 37, 40, 50 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| A, L, O, R 7/8"-18 Heads | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| LUFKIN | | | | | | | | | | | | | |
| GSC | | | | 513 | C97B | .025 | | | | | | | |
| | | | | 513 | C97B | | | | | | | | |
| H1770, H2165 Normal Service | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| H1770, H2165 Severe Service | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| H795 Severe Service | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| HT333, HC333, H795, GSD, GSDH | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| L333, L795, L1770, L2165, F280 | | | | 589 | W89D | .025 | | | | | | | |
| M.E.P. INDUSTRIES | | | | | | | | | | | | | |
| M.E.P.-6, -8, -10, -12 | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | 583 | RHM83N | 1201 | RTM78N | |
| MAN NUTZFAHRZEUGE | | | | | | | | | | | | | |
| E 0824 - E 301, E 302 | 530 | RN79G | .012 | | | | | | | | | | |
| E 0826 - E 301, E 302 | 530 | RN79G | .012 | | | | | | | | | | |
| E 0834 | 1206 | RC78WP | .012 | 1209 | RC78YCC15 | .012 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| E 0836 | 1206 | RC78WP | .012 | 1209 | RC78YCC15 | .012 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| E 2482, E 2842 E & LE | 530 | RN79G | .012 | | | | | | | | | | |
| E 2843 LN | 530 | RN79G | .012 | | | | | | | | | | |
| E 2866 DUH03 | 642 | RN79G | .200 | | | | | | | | | | |
| | 642 | RN79G | | | | | | | | | | | |
| E 2866 LUH01 | 530 | RN79G | .012 | | | | | | | | | | |
| E 2876 | 530 | RN79G | .012 | | | | | | | | | | |
| MAYTAG | | | | | | | | | | | | | |
| Washing Machines | | | | | | | | | | | | | |
| 14mm Heads | | | | 592 | RJ12C | .030 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| 'Multi-Motor' 1/2"-14 Pipe Heads | | | | 525 | 25 | .025 | | | | | | | |
| McCULLOCH | | | | | | | | | | | | | |
| All Other Models | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| Models 77, 99 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| MINNEAPOLIS - MOLINE | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| High-Compression | | | | | | | | | | | | | |
| 165-4A, 185-4A, 206-4A | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| BEU, DU, FEU, GU, GUA, HU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A 18mm Hds. | | | | 509 | D9 | .025 | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A 7/8"-18 Hds. | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| LU, MEU, NEU, SEU, TAU, TEU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| Low-Compression | | | | | | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| MINNEAPOLIS - MOLINE | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Low-Compression | | | | | | | | | | | | | |
| 165-4A, 185-4A, 206-4A | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| 220-4, HD220-4A, M220-A4A | | | | 514 | D14 | .025 | | | | | | | |
| 336A-4A, HD425-6A | | | | 514 | D14 | .025 | | | | | | | |
| 403-4A, 605-6A 14mm Hds. | | | | 868 | RJ19LM | .025 | | | | | | | |
| | | | | 861 | J19LM | | | | | | | | |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| 800-6A, 1210-12A 14mm Hds. | | | | 868 | RJ19LM | .025 | | | | | | | |
| | | | | 861 | J19LM | | | | | | | | |
| All Above Models w/18mm Heads | | | | 514 | D14 | .025 | | | | | | | |
| BEU, DU, FEU, GU, GUA, HU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| HD504-6A, HD425-6A | | | | 514 | D14 | .025 | | | | | | | |
| HD504A-6A, 605A-6A, 605B-6A | | | | 514 | D14 | .025 | | | | | | | |
| HD605-6A, 800-6A | | | | 514 | D14 | .025 | | | | | | | |
| HD800-6A, HD800A-6A, 1210-12A | 233 | RM82WPCC | .012 | 514 | D14 | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 519 | RM77N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| LU, MEU, NEU, SEU, TAU, TEU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 206-4A, 220-4, HD220-4A, M220-A4A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 283-4A, HD504-6A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 336A-4A, HD425-6A, HD504A-6A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| 425-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| 605A-6A, 605B-6A, HD605-6A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 800-6A, 1210-12A, 1600-12A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| BEU, DU, FEU, GU, GUA, HU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| HD800-6A, HD800A-6A, 1210-12A | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| LU, MEU, NEU, SEU, TAU, TEU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| NORDBERG (HATCH & KIRK) | | | | | | | | | | | | | |
| 4FG Shielded Ignition w/ Pulse Generator | | | | | | | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 4FG Unshielded Ignition | | | | 542 | B86N | .012 | | | | | | | |
| FSE96 Natural Gas | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| Power Chief 4FG | | | | 514 | D14 | .025 | | | | | | | |
| RTG Series Natural Gas | | | | 542 | B86N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| O.M.C. | | | | | | | | | | | | | |
| Single And Twin Cylinder | | | | 22 | RF11YC | .030 | | | | | | | |
| OILWELL | | | | | | | | | | | | | |
| 1/2"-14 Pipe Heads | | | | 525 | 25 | .025 | | | | | | | |
| 18mm Heads | | | | 597 | K97F | .025 | | | | | | | |
| OLIN | | | | | | | | | | | | | |
| All Models OLIN | | | | 525 | 25 | .025 | | | | | | | |
| PERKINS | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|-----------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| PERKINS | | | | | | | | | | | | | |
| 4000 Series | 634 | RB77WPCC | .012 | | | | | | | | | | |
| | 636 | RB77WPC | | | | | | | | | | | |
| 900 Series | 244 | RC78PYP21 | .021 | | | | | | | | | | |
| G4-203 | | | | 322 | RN11YC4 | .025 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| G4-236 | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| RATHBUN JONES | | | | | | | | | | | | | |
| All Models RATHBUN JONES | | | | 597 | K97F | .020 | | | | | | | |
| Models w/G-402 Reducing Bushing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| ROBIN (See Fuji-Robin) | | | | | | | | | | | | | |
| ROILINE | | | | | | | | | | | | | |
| ENGINES w/INTEGRAL COIL | | | | | | | | | | | | | |
| F1500, H2000, H2470 (Heavy Load) | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| F1500, H2000, H2470 (Light Load) | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| H540, H844, H570, H884 | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| L3230, L3460, L4000 (Heavy Load) | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| L3230, L3460, L4000 (Light Load) | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| GASOLINE | | | | | | | | | | | | | |
| A114, A288 | | | | 592 | RJ12C | .030 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| H540, H844, H884 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| TH884, H570, TH570 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| High Compression Engines | | | | | | | | | | | | | |
| F1500, F1850, H2000, H2150, H2470 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 550 | ED14 | 1201 | RTM78N | |
| L3000, L3230, L3460, L4000 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 572 | XED14 | 1201 | RTM78N | |
| Low Compression Engines | | | | | | | | | | | | | |
| F1500, F1850, H2000, H2150, H2470 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 550 | ED14 | 1201 | RTM78N | |
| L3000, L3230, L3460, L4000 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 572 | XED14 | 1201 | RTM78N | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| H540, H570, TH570, H884, TH884 | | | | 825 | J4C | .015 | | | | | | | |
| ROLLS ROYCE | | | | | | | | | | | | | |
| B Gas | | | | | | | | | | | | | |
| KV-G4 | | | | | | | | | | | | | |
| K Gas | | | | | | | | | | | | | |
| KV-G4 | | | | | | | | | | | | | |
| ROPER | | | | | | | | | | | | | |
| Model 1900, CA301AR | | | | 851 | DJ6J | .025 | | | | | | | |
| Model 3700 | | | | 849 | CJ6 | .025 | | | | | | | |
| ROTAX | | | | | | | | | | | | | |
| 300cc Normal Service | | | | 509 | D9 | .025 | | | | | | | |
| 370cc Normal Service | 1224 | RL85G | .020 | 830 | RL86C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| | | | | 306 | L86C | | | | | | | | |
| 370cc Severe Service | 1224 | RL85G | .020 | 874 | RL82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| | | | | 811 | L82C | | | | | | | | |
| RUSTON | | | | | | | | | | | | | |
| RK270GS Series | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SACHS | | | | | | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | GAP |
|--|--------------------|---------------------------------|------|---------------------------|---------------------|------|-----------------------------|----------------------|---------------------|---------------|---------------------------------|-------------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | |
| SACHS | | | | | | | | | | | | | |
| 504 Series, 505 Series, 508 | 1224 | RL85G | .025 | 830 306 | RL86C L86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| Stamo 277, 281, 293 Stamo SL-2 | 1224 | RL85G | .025 | 509 874 811 | D9 RL82C L82C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| SACM | | | | | | | | | | | | | |
| Model 175 1996 & up | 1206 218 | RC78WP RC78PYP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| Model UD30 Thru 1994 | 1206 218 | RC78WP RC78PYP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| SOLAR TURBINE | | | | | | | | | | | | | |
| Mars, Centaur | | | | | | | | | 550 572 | ED14 XED14 | | | .025 |
| Sparton (Igniter) | 627 627 | F-6A-13 F-6A-13 | | | | | | | | | | | |
| Type H, Tauros | | | | | | | | | 550 572 | ED14 XED14 | | | .025 |
| STOVER | | | | | | | | | | | | | |
| 1/2"-14 Pipe Heads | | | | 525 | 25 | .025 | | | | | | | |
| CT-1, -2, -3, -4 | | | | 518 | W18 | .025 | | | | | | | |
| DV1, DV2, DVA2, XVH, 502 14mm Hds. | | | | | | | | | 587 587 | H8C H8C | | | .025 |
| DV1, DV2, DVA2, XVH, 502 7/8"-18 Hds. | | | | 518 | W18 | .025 | | | | | | | |
| DVA, DVA1 | | | | 514 | D14 | .025 | | | | | | | |
| K-1, K-6, K-8, MV-2, MV-5, MV-6, MV-7 | | | | 518 | W18 | .025 | | | | | | | |
| MVA, IXA | | | | 569 | W14 | .030 | | | | | | | |
| STRUCK | | | | | | | | | | | | | |
| Mini-Dozer | | | | 871 841 | RJ8C J8C | .030 | | | | | | | |
| SUPERIOR | | | | | | | | | | | | | |
| 1706G2, 1712G1 | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 1965-58 GX825 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | | | 223 1201 | RTM77PP RTM78N | .015 |
| 1970-63 VG825 Series*86 | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| 1970-63 VGT825 Series*86 | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| 1973-39 80G Series | | | | 514 | D14 | .025 | | | 572 | XED14 | | | .025 |
| 1973-39 80GX Series | | | | 514 | D14 | .025 | | | 572 | XED14 | | | .025 |
| 1979-65 GT825 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-46 G510 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-51 G825 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-61 GT510 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | | | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-76 SGT Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | | | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-79 GTL Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 1991-81 GTLA/B Series | | | | 625 | D78Y | .015 | | | | | | | |
| 1991-81 GTLA/B Series (Light Use) | | | | 526 515 | RD15Y D15Y | .015 | | | | | | | |
| 1991-81 SGT/A/B Series | | | | 625 | D78Y | .015 | | | | | | | |
| 1991-81 SGT/A/B Series (Light Use) | | | | 526 515 | RD15Y D15Y | .015 | | | | | | | |
| 2400 G Series | | | | 643 | RB75N | .012 | | | | | | | |
| TELEDYNE (See Continental or Wisconsin) | | | | | | | | | | | | | |
| TRANSAMERICA DELAVAL (See Delaval) | | | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| UNIVERSAL | | | | | | | | | | | | | |
| 18mm Heads | | | | 514 | D14 | .025 | | | | | | | |
| 7/8"-18 Heads | | | | 569 | W14 | .030 | | | | | | | |
| Atomic Four | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| VOLKSWAGEN | | | | | | | | | | | | | |
| ADF, ADH w/1.8L Engs. | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| EA111 w/1.0L Engs. | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| Models 122, 124A Gasoline | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| Models 122, 124A Natural & LPG | 1224 | RL85G | .025 | 874 | RL82C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 811 | L82C | | | | | | | | |
| WARTSILA | | | | | | | | | | | | | |
| Model 175 After 1994 | 1206 | RC78WP | .015 | 1209 | RC78YCC15 | | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| Model 34SG | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| Model W20V | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| Model W25SG, W28SG, W34SG | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB7WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| WAUKESHA | | | | | | | | | | | | | |
| AT SERIES | | | | | | | | | | | | | |
| Inline-8 | | | | | | | | | | | | | |
| 8L-AT25GL/AT27GL (1/2" Reach Heads) | 233 | RM82WPCC | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| 8L-AT25GL/AT27GL (13/16" Reach Heads) | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB7WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| V-12 | | | | | | | | | | | | | |
| 12V-AT25GL/AT27GL (1/2" Reach Heads) | 233 | RM82WPCC | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| 12V-AT25GL/AT27GL (13/16" Reach Heads) | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB7WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | |
| 135G, 135GK, 135GKB, 135GZB | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 587 | H8C | | | |
| 135GZ, 140GZ, 145GZ, F554G, F817G | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| | | | | 841 | J8C | | | | 557 | XEJ8 | | | |
| 140G, 140GK, 140GKB, 140GZB | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 587 | H8C | | | |
| 145G, 145GK, 145GKB, 145GZB | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 587 | H8C | | | |
| Cranes, Carriers, Power Shovels | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| | | | | 841 | J8C | | | | 557 | XEJ8 | | | |
| F265GA, F283G, VRG265 | | | | 322 | RN11YC4 | .025 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| FC, ICK, 6BZ, 6MZA, 6SRKR, 6WAK | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| | | | | 841 | J8C | | | | 557 | XEJ8 | | | |
| Generator Sets | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| | | | | 841 | J8C | | | | 557 | XEJ8 | | | |
| H540, H570, H844, H884, H884G | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| VRG220, VRG330 | 530 | RN79G | .015 | 404 | RN12YC | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | 38 | N12YC | | | | | | 540 | RTN79G | |
| VRG283, VRG310 | | | | 322 | RN11YC4 | .025 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|-------------------------------------|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| WAUKESHA | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | |
| 140GK, 140GS, 145GK, 145GS | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 180G, 180GB, 180GL | | | | 514 | D14 | .025 | | | | | | | |
| 180GS, 185GS, 190GS, FC | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 185GL, 185GLB, 190G, 190GL, 190GLB | | | | 514 | D14 | .025 | | | | | | | |
| 195G, 195GK, 195GKA, 195GL | | | | 514 | D14 | .025 | | | | | | | |
| 6BZ, LRORB, VLORB, ICK | | | | 514 | D14 | .025 | | | | | | | |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK | | | | 514 | D14 | .025 | | | | | | | |
| 6NKR, 6NKR, 6SRKR, 6WAK, 6WAKB | | | | 514 | D14 | .025 | | | | | | | |
| CFR | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| D155G, D176G, VRG232 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 563 | XED16 | | | | | | | | |
| F1197GR, VRG155 | | | | 514 | D14 | .025 | | | | | | | |
| | | | | 572 | XED14 | | | | | | | | |
| 7/8"-18 Heads | | | | | | | | | | | | | |
| 6LRO, 6SRKR, LRORB, XAH | | | | 569 | W14 | .030 | | | | | | | |
| INTERMEDIATE SERIES | | | | | | | | | | | | | |
| F1197G | | | | 514 | D14 | .025 | | | | | | | |
| F1950GR | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 18mm Heads | | | | | | | | | | | | | |
| 140GK, 145GK, FC | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 180G, 180GB, 180GKB, 185GLB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 190G, 190GLB, 196G, 195GK | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 6BZ, 6LRZ, 6LRZB, 6MZA, 6MZR, ICK | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 6NK, 6WAK, 6WAKB, NKR, WAKR, LRORB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| F1197GRSI, F1905GRSI, Generator Set | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 519 | RM77N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| F1850G, H2475G, L3711G LPG | | | | 509 | D9 | .025 | | | | | | | |
| F1850G, H2475G, L3711G Natural Gas | | | | 514 | D14 | .025 | | | | | | | |
| F2894G, F2894GRSI, F3520G, L5100GR | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | 509 | D9 | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| L5100GRSI, L5788GR | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| L5788GRSI, L7040G | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| L7042GSIE, F3521GSIE | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| VRN232, VRN155 | | | | 514 | D14 | .025 | | | | | | | |
| 7/8" - 18 HEADS | | | | | | | | | | | | | |
| 6SRKR, XAH, LRORB | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| Inline-6 | | | | | | | | | | | | | |
| F817G | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| VSG Series | | | | | | | | | | | | | |
| F11FG F11GSI/GSID | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | |
| 135G, 140G, 145G | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|------------------------------------|--------------------|---------------------------------|------|---------------------------|-----------------|------|-----------------------------|----------------------|---------------------|--------------|---------------------------------|--------------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| WAUKESHA | | | | | | | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | |
| 135GZ, 140GZ, 145GZ | | | | 102 823 | RJ6C J6C | .020 | | | | | | | |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| ICK, F554G, H884G | | | | 102 823 | RJ6C J6C | .020 | | | | | | | |
| P2154G, P2154GSI | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| VRG220, VRG330 | 530 | RN79G | .015 | 123 120 | RN5C N5C | .025 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| VRN265, VRN283, VRN310 | 530 | RN79G | .020 | 123 120 | RN5C N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| VGF SERIES | | | | | | | | | | | | | |
| Inline-6 | | | | | | | | | | | | | |
| F18G, F18GL/GLD | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| Inline-8 | | | | | | | | | | | | | |
| H24G, H24GL/GLD | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| V-12 | | | | | | | | | | | | | |
| L36GL/GLD | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| V-16 | | | | | | | | | | | | | |
| P48GL/GLD | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| VHP SERIES | | | | | | | | | | | | | |
| Inline-6 | | | | | | | | | | | | | |
| 2895GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 2895GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 3521GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 3521GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| F2895G, F2895GSI | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| F3521G, F3521GSI | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| V-12 | | | | | | | | | | | | | |
| 5108GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 5108GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 5790GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 5790GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 7042GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 7042GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---|--------------------|---------------------------------|------|---------------------------|-----------------|------|-----------------------------|----------------------|---------------------|---------------|---------------------------------|--------------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| WAUKESHA | | | | | | | | | | | | | |
| VHP SERIES | | | | | | | | | | | | | |
| V-12 | | | | | | | | | | | | | |
| L5108G, L5108GSI, L5790G | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| L5790GSI, L7042G, L7042GSI | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| V-16 | | | | | | | | | | | | | |
| 5115GL | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 9390G, P9390GSI | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 9390GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 9390GL (13/16" Reach Heads) | 1230 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| VSG SERIES | | | | | | | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | |
| 140GK, 145GK, FC | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 180G, 180GB, 180GKB, 185GLB | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 190G, 190GLB, 195G, 195GK | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 6BZ, 6LRZ, 6LRZB, 6MZA, 6MZR, ICK | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 6NK, 6WAK, 6WAKB, NKRB, WAKR, LRORB | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| F1197GRSI, F1905GRSI, Generator Set | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| F1850G, H2475G, L3711G LPG | | | | 509 | D9 | .025 | | | | | | | |
| F1850G, H2475G, L3711G Natural Gas | | | | 514 | D14 | .025 | | | | | | | |
| F2894G, F2894GRSI, F3520G, L5100GR | 233 217 | RM82WPCC RM77PP | .012 | 519 566 | RM77N M82N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | 509 | D9 | .025 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| L5100GRSI, L5788GR | 233 217 | RM82WPCC RM77PP | .012 | 519 566 | RM77N M82N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| L5788GRSI, L7040G | 233 217 | RM82WPCC RM77PP | .012 | 519 566 | RM77N M82N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| L7042GSIE, F3521GSIE | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| VRN232, VRN155 | | | | 514 | D14 | .025 | | | | | | | |
| Inline-6 | | | | | | | | | | | | | |
| F11G, F11GSI/GSID | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| WEST BEND | | | | | | | | | | | | | |
| All Other Models (Light Load) | | | | | | | | | 854 844 | RH10C H10C | | | .025 |
| All Other Models (Normal Load) | | | | | | | | | 538 587 | RH8C H8C | | | .025 |
| All Other Models (Severe Load) | | | | 102 823 | RJ6C J6C | .030 | | | | | | | |
| Models 610, 820 | | | | 874 811 | RL82C L82C | .030 | | | | | | | |
| WHITE ENGINES, INC. (See Hercules) | | | | | | | | | | | | | |
| WHITE-SUPERIOR (See Superior) | | | | | | | | | | | | | |
| WISCONSIN | | | | | | | | | | | | | |
| ACN, AEN, AENLD | | | | 516 564 | D16 D16J | .030 | | | | | | | |
| AEH, AENL, AENS, AFH, AGH, AHH | | | | 516 564 | D16 D16J | .030 | | | | | | | |



| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|--|-------------------|--------------|------|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|------|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | GAP |
| WISCONSIN | | | | | | | | | | | | | |
| AGND | | | | 502 | D21 | .025 | | | | | | | |
| All 18mm Heads Using LP Gas | | | | 509 | D9 | .025 | | | | | | | |
| BKN, S7D, S8D, S10D, S12D, S14D, TE | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| TF, TH, THD, TRA10D, TRA12D, THPD, TJD | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| THOM, VE4, VF4, VE4, VF4D | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| V460D, V461D, V465D | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| VG4D, VH4, VH4D, W2-280 | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| VH4DM, TR10D, W4-1770, W2-1230 | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| W2-1230 Serial #5996538 & Up | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| W2-1235, W4-2460, W2-1250 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| W2-880, W2-1230 Thru Serial #5995537 | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| WISCONSIN-ROBIN | | | | | | | | | | | | | |
| EY18-3W, EY25W Gasoline | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| EY18-3W, EY25W Kerosene | | | | 806 | L92YC | .025 | | | | | | | |
| EY18W, EY21W, EY27W, EY44W | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| W1-080, W1-150, W1-230, W1-280 | | | | 327 | RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |
| W1-145, W1-390, W1-185, W1-340 | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| WT-125V, W1-450V | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| WITTE (See Oilwell) | | | | | | | | | | | | | |
| G-260 | 1224 | RL85G | .015 | 874 | RL82C | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| | | | | 811 | L82C | | | | | | | | |
| WORTHINGTON | | | | | | | | | | | | | |
| AG, BG, BBG, EEGX | | | | 569 | W14 | .030 | | | | | | | |
| CG, CCG, CCGX, DG, DDG | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| DDGX Gasoline | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| DDGX Natural Gas | | | | 825 | J4C | .015 | | | | | | | |
| DHG, DRG, EEG | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| EHG, LFC, LCE | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| LTC 18X25, & LTC 20X25 | | | | 518 | W18 | .025 | | | | | | | |
| ML Turbocharged | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SDHG & SDHP Severe Service | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SLHC, SLHCA, SLHP | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SUTC, SEGH, SWG | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SWG, SOME, SEHG w/Clamp in plugs | | | | 598 | RS79N | .012 | | | | | | | |
| UTC | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| UTC Shielded | | | | | | | 578 | REW82P | 534 | REW80N | | | .012 |
| YAMAHA | | | | | | | | | | | | | |
| AS110 | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| MF180, MF260, MF410 | | | | 327 | RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS

| MAKE YEAR and MODEL | PREMIUM LONG LIFE | | | COPPER PLUS UNSHIELDED | | | PREMIUM SHIELDED 3/4"-20 | | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | GAP |
|------------------------|-------------------|--------------|-----|---------------------------|--------------|------|-----------------------------|--------------|---------------------|--------------|---------------------------------|--------------|-----|
| | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG TYPE | |
| Yanmar | | | | | | | | | | | | | |
| Y12, Y18, Y24, Y33 | | | | 405 | RN14YC | .030 | | | | | | | |
| YOUNG | | | | | | | | | | | | | |
| All Models YOUNG | | | | 518 | W18 | .025 | | | | | | | |



| MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | | MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | |
|--|------------------|--------------|-------|--|------------------|--------------|-------|
| | STOCK NO. | PLUG TYPE | GAP | | STOCK NO. | PLUG TYPE | GAP |
| BUDA (see Allis-Chalmers) | | | | COOPER - BESSEMER | | | |
| | | | | G402 REDUCING BUSHING | | | |
| | | | | GDJ, GMA, GMB, GMC | 568 | REM77N | 0.015 |
| | | | | GDT, GFB, GFE, GFK | 568 | REM77N | 0.015 |
| CASE | | | | COOPER ENERGY SERVICES (see Superior) | | | |
| GASOLINE | | | | | | | |
| 188G, 301G, 377G | 563 | XED16 | 0.025 | | | | |
| A284, A377, 159G | 563 | XED16 | 0.025 | | | | |
| NATURAL & LP GAS | | | | | | | |
| 188G, 301G, 377G | 568 | REM77N | 0.012 | | | | |
| A284, A377, 159G | 568 | REM77N | 0.012 | | | | |
| CATERPILLAR | | | | CP - CHICAGO PNEUMATIC | | | |
| STARTING ENGINE FOR DIESELS | | | | | | | |
| D320, D326, D337 18mm Heads | 563 | XED16 | 0.025 | 9CPG High Comperssion | 534 | REW80N | 0.012 |
| D339, D342, D343, D353 18mm Heads | 563 | XED16 | 0.025 | 9CPG Low Comperssion | 563 | XED16 | 0.025 |
| D375, D379, D397, D398 18mm Heads | 563 | XED16 | 0.025 | | | | |
| CLARK (see Dresser Clark) | | | | DECO-GRAND | | | |
| | | | | | | | |
| CLEVELAND DIESEL | | | | DORMAN | | | |
| | | | | | | | |
| Model 358 | 578 | REW82P | 0.012 | 12S, 12STCWG, 12STCAG, 6PG, 12PG | 568 | REM77N | 0.015 |
| CLIMAX | | | | | | | |
| GASOLINE | | | | | | | |
| CE101, CE106, CE264 Normal Service | 568 | REM77N | 0.012 | 12SG | 568 | REM77N | 0.015 |
| CE46, CE66, CE81, CE96 Normal Service | 550 | ED14 | 0.025 | 6PG, 12PG | 568 | REM77N | 0.015 |
| CE46, CE66, CE81, CE96 Normal Service | 572 | XED14 | 0.025 | DRESSER CLARK | | | |
| R-165 Snowplow Only Normal Service | 563 | XED16 | 0.025 | | | | |
| V-80, V-85, V-122, V-125 8.2:1 C.R. Normal Service | 550 | ED14 | 0.015 | BA, HBA, HMA, HLA, HRA, MA | 578 | REW82P | 0.012 |
| V-80, V-85, V-122, V-125 8.2:1 C.R. Normal Service | 572 | XED14 | 0.015 | RA, TRA, TLA, TCV | 578 | REW82P | 0.012 |
| V-80, V-85, V-122, V-125 9.4:1 C.R. Normal Service | 568 | REM77N | 0.012 | SUPER & TURBOCHARGED | | | |
| CONTINENTAL | | | | | | | |
| NATURAL & LP GAS | | | | | | | |
| C46, C66, C96, C106, C255 | 505 | ED89D | 0.025 | HBAT, HLAT, HRAT, TRA, TLA | 578 | REW82P | 0.012 |
| NORMAL SERVICE | | | | | | | |
| B405, 4124, 4140, 4162, 4163, 6226 | 563 | XED16 | 0.025 | TCVB, TCVC, TVM, VMC | 578 | REW82P | 0.012 |
| B6244, 6245, 6277, 6371, 6405, 6427 | 563 | XED16 | 0.025 | TLAB, TLAC, TLAD, TPV, TCVA | 578 | REW82P | 0.012 |
| C46, C66 | 563 | XED16 | 0.025 | TVC, HSRA, RAS, TMB | 578 | REW82P | 0.012 |
| E223, F124, 135, 140, 162, 163, 186 | 563 | XED16 | 0.025 | DRESSER RAND | | | |
| F209, 226, 227, 244, 245 | 563 | XED16 | 0.025 | | | | |
| G134, 157, 176, H227, 243, 260 | 563 | XED16 | 0.025 | TCV, TCVA, TCVD, TLAD | 578 | REW82P | 0.012 |
| J382 TO 403, T371 TO 247 | 563 | XED16 | 0.025 | ENTERPRISE | | | |
| M6271, 6290, 6330, 6363, OS220 | 563 | XED16 | 0.025 | 7/8" - 18 HEADS | | | |
| R6513, 6572, 6602, U6501 18mm Heads | 563 | XED16 | 0.025 | GSM-36, 38 | 578 | REW82P | 0.012 |
| RS542, T6371, 6427, TC56 | 563 | XED16 | 0.025 | CENTER OF HEAD | | | |
| Y69, Y91, Y112, Y4069, 4091, 4112 | 563 | XED16 | 0.025 | TDSG-36-6-38 | 578 | REW82P | 0.012 |
| Z105 TO 120, ZA120 | 563 | XED16 | 0.025 | FAIRBANKS MORSE | | | |
| COOPER - BESSEMER | | | | | | | |
| | | | | | | | |
| ENG, GNG | 568 | REM77N | 0.015 | FICHEL-SACH (see Sachs) | | | |
| GAW, GMR, GMV, JS | 578 | REW82P | 0.012 | | | | |
| GS | 563 | XED16 | 0.025 | | | | |
| 5/8" REACH | | | | | | | |
| GMW, GMX, V-250, V-275, W330 | 578 | REW82P | 0.012 | GENERAL MOTORS | | | |
| GMWC, GMWA | 578 | REW82P | 0.012 | | | | |
| GMXE, GMWA, GMXH, W330 | 578 | REW82P | 0.012 | | | | |
| Z330 | 578 | REW82P | 0.012 | | | | |
| COOPER - BESSEMER | | | | HALL SCOTT | | | |
| | | | | GASOLINE | | | |
| | | | | 1091-OS Intake | 563 | XED16 | 0.025 |
| | | | | 136, 180, 190, 504 Exhaust | 550 | ED14 | 0.025 |
| | | | | 136, 180, 190, 504 Exhaust | 572 | XED14 | 0.025 |
| | | | | 200-0, 201-0, 400-0 Regular | 550 | ED14 | 0.025 |
| | | | | 200-0, 201-0, 400-0 Regular | 572 | XED14 | 0.025 |
| | | | | 400-0, 470, 480, 6156 Exhaust | 550 | ED14 | 0.025 |
| | | | | 400-0, 470, 480, 6156 Exhaust | 572 | XED14 | 0.025 |
| | | | | 440, 2269-0, 1091-OS Ehaust | 550 | ED14 | 0.025 |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS-5/8"-24 SHIELDED

| MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | | MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | |
|--------------------------------------|------------------|--------------|-------|--|------------------|--------------|-------|
| | STOCK NO. | PLUG TYPE | GAP | | STOCK NO. | PLUG TYPE | GAP |
| HALL SCOTT | | | | MINNEAPOLIS - MOLINE | | | |
| 440, 2269-0, 1091-OS Exhaust | 572 | XED14 | 0.025 | GASOLINE | | | |
| 6156-B1, 6182-B1 Intake | 572 | XED14 | 0.025 | 165-4A, 185-4A, 206-4A Low Comperssion | 563 | XED16 | 0.025 |
| 6156-B1, 6182-B1 Intake | 550 | ED14 | 0.025 | 220-4, HD220-4A, M220-A4A Low Comperssion | 550 | ED14 | 0.025 |
| 779-GHI | 563 | XED16 | 0.025 | 220-4, HD220-4A, M220-A4A Low Comperssion | 572 | XED14 | 0.025 |
| F3, G1, G2, 6182 Exhaust | 550 | ED14 | 0.025 | 336A-4A, HD425-6A Low Comperssion | 550 | ED14 | 0.025 |
| F3, G1, G2, 6182 Exhaust | 572 | XED14 | 0.025 | 336A-4A, HD425-6A Low Comperssion | 572 | XED14 | 0.025 |
| G1, G2, FE, 1091G1 Exhaust | 550 | ED14 | 0.025 | ALL ABOVE MODELS W/18mm HEADS Low Comperssion | 572 | XED14 | 0.025 |
| G1, G2, FE, 1091G1 Exhaust | 572 | XED14 | 0.025 | ALL ABOVE MODELS W/18mm HEADS Low Comperssion | 550 | ED14 | 0.025 |
| NATURAL & LP GAS | | | | HD504-6A, HD425-6A Low Comperssion | 550 | ED14 | 0.025 |
| 400-0, 470, 480, 855, 935 Intake | 550 | ED14 | 0.025 | HD504-6A, HD425-6A Low Comperssion | 572 | XED14 | 0.025 |
| 400-0, 470, 480, 855, 935 Intake | 572 | XED14 | 0.025 | HD504A-6A, 605A-6A, 605B-6A Low Comperssion | 550 | ED14 | 0.025 |
| HERCULES | | | | HD504A-6A, 605A-6A, 605B-6A Low Comperssion | 572 | XED14 | 0.025 |
| 1091-OS Exhaust | 550 | ED14 | 0.025 | HD504A-6A, 605A-6A, 605B-6A Low Comperssion | 572 | XED14 | 0.025 |
| 1091-OS Exhaust | 572 | XED14 | 0.025 | HD605-6A, 800-6A Low Comperssion | 572 | XED14 | 0.025 |
| 1091-OS Intake | 563 | XED16 | 0.025 | HD605-6A, 800-6A Low Comperssion | 550 | ED14 | 0.025 |
| HXE, HXLEF | 563 | XED16 | 0.025 | HD800-6A, HD800A-6A, 1210-12A Low Comperssion | 550 | ED14 | 0.025 |
| NATURAL & LP GAS | | | | HD800-6A, HD800A-6A, 1210-12A Low Comperssion | 572 | XED14 | 0.025 |
| 6156, 6182 Gas Intake | 550 | ED14 | 0.025 | NATURAL & LP GAS | | | |
| 6156, 6182 Gas Intake | 572 | XED14 | 0.025 | 206-4A, 220-4, HD220-4A, M220-A4A | 568 | REM77N | 0.025 |
| HOPE (see Cooper-Bessemer) | | | | 283-4A, HD504-6A | 568 | REM77N | 0.025 |
| | | | | 336A-4A, HD425-6A, HD504A-6A | 568 | REM77N | 0.025 |
| | | | | 605A-6A, 605B-6A, HD605-6A | 568 | REM77N | 0.025 |
| | | | | HD800-6A, HD800A-6A, 1210-12A | 568 | REM77N | 0.025 |
| INGERSOLL-RAND | | | | NORDBERG (Hatch & Kirk) | | | |
| NATURALLY ASPIRATED | | | | Power Chief 4FG | 572 | XED14 | 0.025 |
| PKVG, KVGR, PKVGR | 578 | REW82P | 0.012 | Power Chief 4FG | 550 | ED14 | 0.025 |
| Turbicharged Models | 578 | REW82P | 0.012 | RATHBUN JONES | | | |
| XVG, PVG, JVG, SVG, KVG, PJVG, PSVG | 578 | REW82P | 0.012 | Models w/G402 Reducing Bushing | 568 | REM77N | 0.015 |
| INTERNATIONAL | | | | ROBIN (see Fuji-Robin) | | | |
| GASOLINE | | | | ROILINE | | | |
| U164, U169, U175 NORMAL SERVICE | 563 | XED16 | 0.025 | F1500, H2000, H2470 (Light Load) | 568 | REM77N | 0.012 |
| U2, U2A, UC60, UC135 NORMAL SERVICE | 563 | XED16 | 0.025 | H540, H844, H570, H884 | 568 | REM77N | 0.012 |
| UC135B, UC153 NORMAL SERVICE | 563 | XED16 | 0.025 | L3230, L3460, L4000 (Light Load) | 568 | REM77N | 0.012 |
| UC175, UC200, UC301 NORMAL SERVICE | 563 | XED16 | 0.025 | GASOLINE | | | |
| UC221, UC263 Shielded NORMAL SERVICE | 563 | XED16 | 0.025 | F1500, F1850, H2000, H2150, H2470 High Comperssion | 568 | REM77N | 0.012 |
| JOHN DEERE | | | | F1500, F1850, H2000, H2150, H2470 Low Comperssion | 550 | ED14 | 0.025 |
| 341, 400, 500 Series | 550 | ED14 | 0.025 | F1500, F1850, H2000, H2150, H2470 Low Comperssion | 572 | XED14 | 0.025 |
| 341, 400, 500 Series | 572 | XED14 | 0.025 | L3000, L3230, L3460, L4000 Low Comperssion | 550 | ED14 | 0.025 |
| NATURAL & LP GAS | | | | L3000, L3230, L3460, L4000 High Comperssion | 568 | REM77N | 0.012 |
| 400, 500 Series | 568 | REM77N | 0.012 | L3000, L3230, L3460, L4000 Low Comperssion | 572 | XED14 | 0.025 |
| LORAIN | | | | Shielded Plug Low Comperssion | 550 | ED14 | 0.025 |
| 30, 37, 40, 50 | 563 | XED16 | 0.025 | Shielded Plug High Comperssion | 550 | ED14 | 0.025 |
| A, L, O, R 7/8"-18 HEADS | 578 | REW82P | 0.012 | Shielded Plug High Comperssion | 572 | XED14 | 0.025 |
| LUFKIN | | | | Shielded Plug Low Comperssion | 572 | XED14 | 0.025 |
| NORMAL SERVICE | | | | RUSTON | | | |
| H795 | 578 | REW82P | 0.012 | RK270GS Series | 578 | REW82P | 0.012 |
| SEVERE SERVICE | | | | SOLAR TURBINE | | | |
| H1770, H2165 | 578 | REW82P | 0.012 | Mars, Centaur | 572 | XED14 | 0.025 |
| H1770, H2165 | 578 | REW82P | 0.012 | | | | |
| M.E.P. INDUSTRIES | | | | | | | |
| M.E.P. -6, -8, 10, -12 Unshielded | 568 | REM77N | 0.015 | | | | |



| MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | | MAKE YEAR AND MODEL | SHIELDED 5/8"-24 | | |
|---|------------------|--------------|-------|---|------------------|--------------|-------|
| | STOCK NO. | PLUG TYPE | GAP | | STOCK NO. | PLUG TYPE | GAP |
| SOLAR TURBINE | | | | WAUKESHA | | | |
| Mars, Centaur | 550 | ED14 | 0.025 | Shielded type for D16 14mm Heads | 563 | XED16 | 0.025 |
| Type H, Tauros | 550 | ED14 | 0.025 | Shielded type for J8C 14mm Heads | 557 | XEJ8 | 0.025 |
| Type H, Tauros | 572 | XED14 | 0.025 | INLINE 8 | | | |
| STOVER | | | | 8L-AT25GL/AT27GL (1/2' reach heads) | 568 | REM77N | 0.012 |
| DVA, DVA1 | 550 | ED14 | 0.025 | INTERMEDIATE SERIES | | | |
| DVA, DVA1 | 572 | XED14 | 0.025 | F1197G Inline 6 | 572 | XED14 | 0.025 |
| SUPERIOR | | | | F1197G Inline 6 | 550 | ED14 | 0.025 |
| 1965-58 GX825 Series | 568 | REM77N | 0.015 | F1905GR Inline 6 | 568 | REM77N | 0.015 |
| 1970-63 VG825 Series86 | 578 | REW82P | 0.012 | VGF SERIES | | | |
| 1970-63 VGT825 Series86 | 578 | REW82P | 0.012 | 140GK, 145GK, FC 18mm Heads | 568 | REM77N | 0.015 |
| 1973-39 80G Series | 550 | ED14 | 0.025 | 180G, 180GB, 180GKB, 185GLB 18mm Heads | 568 | REM77N | 0.015 |
| 1973-39 80G Series | 572 | XED14 | 0.025 | 1850G, H2475G, L3711G Natural Gas 18mm Heads | 550 | ED14 | 0.025 |
| 1973-39 80GX Series | 572 | XED14 | 0.025 | 1850G, H2475G, L3711G Natural Gas 18mm Heads | 572 | XED14 | 0.025 |
| 1973-39 80GX Series | 550 | ED14 | 0.025 | 190G, 190GLB, 195G, 195GK 18mm Heads | 568 | REM77N | 0.015 |
| 1979-65 GT825 Series | 568 | REM77N | 0.015 | 6BZ, 6LRZ, 6LRZB, 6MZA, 6MZR, ICK 18mm Heads | 568 | REM77N | 0.015 |
| 1980-46 G510 Series | 568 | REM77N | 0.015 | 6NK, 6WAK, 6WAKB, NKR, WAKR, LRORB 18mm Heads | 568 | REM77N | 0.015 |
| 1980-51 G825 Series | 568 | REM77N | 0.015 | F1197GRSI, F1905GRSI Generator Set 18mm Heads | 568 | REM77N | 0.015 |
| 1980-61 GT510 Series | 568 | REM77N | 0.015 | F2894G, F2894GRSI, F3520G, L5100GR 18mm Heads | 568 | REM77N | 0.015 |
| 1980-76 SGT Series | 568 | REM77N | 0.015 | L5100GRSI, L5788GR 18mm Heads | 568 | REM77N | 0.015 |
| 1980-79 GTL Series | 568 | REM77N | 0.015 | L5788GRSI, L7040G 18mm Heads | 568 | REM77N | 0.015 |
| 2400 G Series | 572 | XED14 | 0.025 | L7042GSIE, F3521GSIE 18mm Heads | 568 | REM77N | 0.015 |
| 2400 G Series | 550 | ED14 | 0.025 | VRN232, VRN155 18mm Heads | 550 | ED14 | 0.025 |
| TELEDYNE (see Continental) | | | | VRN232, VRN155 18mm Heads | 572 | XED14 | 0.025 |
| UNIVERSAL | | | | VHP Series | | | |
| 18mm Heads | 550 | ED14 | 0.025 | 2895GL (1/2' reach heads) Inline 6 | 568 | REM77N | 0.012 |
| 18mm Heads | 572 | XED14 | 0.025 | 3521GL (1/2' reach heads) Inline 6 | 568 | REM77N | 0.012 |
| WAUKESHA | | | | 5108GL (1/2" reach heads) V12 Series | 568 | REM77N | 0.012 |
| AT Series | | | | 5790GL (1/2' reach heads) V12 Series | 568 | REM77N | 0.012 |
| 12V-AT25GL/AT27GL (1/2' reach heads) | 568 | REM77N | 0.012 | 7042GL (1/2' reach heads) V12 Series | 568 | REM77N | 0.012 |
| GASOLINE | | | | 9390G, P9390GSI V16 Series | 568 | REM77N | 0.012 |
| 140GK, 140GS, 145GK, 145GS 14mm Heads | 563 | XED16 | 0.025 | 9390GL (1/2" reach heads) V16 Series | 568 | REM77N | 0.012 |
| 180G, 180GB, 180GL 14mm Heads | 572 | XED14 | 0.025 | F2895G, F2895GSI Inline 6 | 568 | REM77N | 0.012 |
| 180G, 180GB, 180GL 14mm Heads | 550 | ED14 | 0.025 | F3251G, F3521GSI Inline 6 | 568 | REM77N | 0.012 |
| 180GS, 185GS, 190GS, FC 14mm Heads | 563 | XED16 | 0.025 | L5108G, L5108GSI, L5790G V12 Series | 568 | REM77N | 0.012 |
| 185GL, 185GLB, 190G, 190GL, 190GLB 14mm Heads | 550 | ED14 | 0.025 | L5790GSI, L7042G, L7042GSI V12 Series | 568 | REM77N | 0.012 |
| 185GL, 185GLB, 190G, 190GL, 190GLB 14mm Heads | 572 | XED14 | 0.025 | WHITE ENGINE, INC. (see Hercules) | | | |
| 195G, 195GK, 195GKA, 195GL 14mm Heads | 550 | ED14 | 0.025 | WHITE-SUPERIOR (see Superior) | | | |
| 195G, 195GK, 195GKA, 195GL 14mm Heads | 572 | XED14 | 0.025 | WORTHINGTON | | | |
| 6BZ, LRORB, VLRORB, ICK 14mm Heads | 550 | ED14 | 0.025 | CG, CCG, CCGX, DG, DDG | 578 | REW82P | 0.012 |
| 6BZ, LRORB, VLRORB, ICK 14mm Heads | 572 | XED14 | 0.025 | DHG, DRG, EEG | 578 | REW82P | 0.012 |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK 14mm Heads | 550 | ED14 | 0.025 | EHG, LFC, LCE | 578 | REW82P | 0.012 |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK 14mm Heads | 572 | XED14 | 0.025 | ML Turbocharged | 578 | REW82P | 0.012 |
| 6NKR, 6NKR, 6SRKR, 6WAK, 6WAKB 14mm Heads | 550 | ED14 | 0.025 | SDHG & SDHP Severe Service | 578 | REW82P | 0.012 |
| 6NKR, 6NKR, 6SRKR, 6WAK, 6WAKB 14mm Heads | 572 | XED14 | 0.025 | SLHC, SLHCA, SLHP | 578 | REW82P | 0.012 |
| CFR 14mm Heads | 563 | XED16 | 0.025 | SUTC, SEGH, SWG | 578 | REW82P | 0.012 |
| D155G, D176G, VRG232 14mm Heads | 563 | XED16 | 0.025 | UTC | 578 | REW82P | 0.012 |
| F1197GR, VRG155 14mm Heads | 550 | ED14 | 0.025 | | | | |
| F1197GR, VRG155 14mm Heads | 572 | XED14 | 0.025 | | | | |
| Shielded type for D14 14mm Heads | 550 | ED14 | 0.025 | | | | |
| Shielded type for D14 14mm Heads | 572 | XED14 | 0.025 | | | | |



INDUSTRIAL SPARK PLUG GAPS

| STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | HEX INCHES | TERMINAL THREAD NUT | REPL. GASKET | STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | HEX INCHES | TERMINAL THREAD NUT | REPL. GASKET |
|--------------------------------------|-----------|------------|-----------|--------------|------------|---------------------|--------------|-----------------------------|-----------|------------|-----------|--------------|------------|---------------------|--------------|
| 10mm THREAD DIAMETER | | | | | | | | 14mm THREAD DIAMETER | | | | | | | |
| 877 | Y82 | .020 | 8 | .312 | 14mm | NONE | NONE | 644 | RJ88P | .015 | 8 | .375 | 13/16 | BN-9A | N-678 |
| 1-1 / 8" - 12 THREAD DIAMETER | | | | | | | | 18mm THREAD DIAMETER | | | | | | | |
| 598 | RS79N | .012 | 8 | .625 | 1 | BN-9A | FGS-8A | 1201 | RTM78N | .012 | 4 | .531 | 7/8 | NONE | A-678 |
| 12.7mm THREAD DIAMETER | | | | | | | | 1202 | RTM78N | .019 | 4 | .531 | 7/8 | NONE | A-678 |
| 14mm THREAD DIAMETER | | | | | | | | 1203 | RTB78N | .012 | 4 | .531 | 7/8 | NONE | A-678 |
| 525 | 25 | .030 | 8 | 1.00 | .938 | NONE | NONE | 1205 | RB77WPCC | .007 | 4 | .813 | 7/8 | NONE | A-678 |
| 1206 | RC78WP | .012 | 6 | .750 | 5/8 | NONE | N-678 | 1219 | KB75N | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 1208 | RC78PYP | .017 | 6 | .750 | 5/8 | NONE | N-678 | 1225 | RTM82WPCC | .012 | 4 | .500 | 7/8 | NONE | NONE |
| 1209 | RC78YCC15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 1230 | FB77WPCC | .012 | 4 | .813 | 7/8 | None | A-678 |
| 1213 | RC78PYP | .012 | 4 | .750 | 5/8 | NONE | N-678 | 204 | D14N | .025 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 1218 | RC78WYP11 | .011 | 6 | .750 | 5/8 | NONE | N-678 | 213 | RHM77N | .020 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 1220 | RTV85G | .025 | 4 | .460 | 5/8 | BN-9A | N-678 | 214 | RTM77N | .012 | 8 | .531 | 1 | BN-9A | A-678 |
| | | | | | Taper Seat | | | 217 | RM77PP | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 1221 | RC78WYP15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 222 | RHM78PP | .012 | 4 | .531 | 7/8 | SHIELDED | A-678 |
| 1224 | RL85G | .015 | 4 | .500 | 13/16 | BN-9A | N-678 | 223 | RTM77PP | .012 | 4 | .531 | 7/8 | BN-9A | A-678 |
| 1232 | RTN79WYP | .015 | 4 | .750 | 15/16 | NONE | N-678 | 225 | RB75PP | .012 | 4 | .813 | 7/8 | BN-9A | A-678 |
| 218 | RC78PYP | .015 | 6 | .750 | 5/8 | NONE | N-678 | 226 | RB76PP | .012 | 4 | .813 | 7/8 | BN-9A | A-678 |
| 219 | RC78PYP | .021 | 6 | .750 | 5/8 | NONE | N-678 | 229 | KB77WPCC | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 224 | RN79G1 | .010 | 8 | .750 | 13/16 | NONE | N-678 | 233 | RM82WPCC | .012 | 4 | .531 | 7/8 | BN-9A | A-678 |
| 230 | RX85PYP | .012 | 6 | .500 | 5/8 | NONE | N-678 | 234 | RHM78N | .015 | 4 | .531 | 7/8 | SHIELDED | A-678 |
| 232 | RC78PYP17 | .017 | 6 | .750 | 5/8 | NONE | N-678 | 235 | RTB77WPCC | .012 | 4 | .813 | 1 | BN-9A | A-678 |
| 241 | RC78PYP25 | .025 | 6 | .750 | 5/8 | NONE | N-678 | 236 | RHM78WPCC | .012 | 4 | .531 | 7/8 | SHIELDED | A-678 |
| 243 | RC78PYP15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 237 | RB77CC | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 244 | RC78PYP21 | .021 | 6 | .750 | 5/8 | NONE | N-678 | 242 | RB75WPCC | .012 | 4 | .813 | 13/16 | NONE | A-678 |
| 247 | RN79PYP17 | .017 | 4 | .750 | 13/16 | NONE | N-678 | 245 | RB77WPCC | .007 | 4 | .813 | 7/8 | NONE | A-678 |
| 248 | RN79PYP25 | .025 | 4 | .750 | 13/16 | NONE | N-678 | 249 | RB77WPCC | .007 | 4 | .813 | 7/8 | NONE | A-678 |
| 502 | D21 | .027 | 6 | .500 | 7/8 | NONE | N-678 | 503 | REM84P | .015 | 8 | .500 | 7/8 | SHIELDED | A-678 |
| 517 | XMJ17 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 504 | N21 | .025 | 4 | .750 | 13/16 | NONE | A-678 |
| 522 | REL89G | .015 | 1 | .500 | 13/16 | SHIELDED | N-678 | 505 | ED89D | .025 | 8 | .500 | 7/8 | SHIELDED | A-678 |
| 530 | RN79G | .015 | 8 | .750 | 13/16 | NONE | N-678 | 506 | D6 | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 535 | RL15B | .015 | 8 | .500 | 13/16 | BN-9A | N-678 | 509 | D9 | .025 | 6 | .500 | 7 / 8 | BN-9A | N-678 |
| 540 | RTN79G | .015 | 8 | .750 | 15/16 | BN-9A | N-678 | 514 | D14 | .025 | 6 | .500 | 7 / 8 | BN-9A | N-678 |
| 551 | RHL79G | .015 | 1 | .500 | 7/8 | SHIELDED | N-678 | 515 | D15Y | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 556 | RTL85G | .015 | 8 | .500 | 13/16 | BN-9A | N-678 | 516 | D16 | .025 | 6 | .500 | 7/8 | ZN-9A | A-678 |
| 557 | XEJ8 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 519 | RM77N | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 567 | XEJ12 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 521 | XMD21 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 573 | XMJ20 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 523 | D23 | .030 | 8 | .500 | 7/8 | NONE | A-678 |
| 575 | RHN79G | .015 | 1 | .750 | 7/8 | SHIELDED | N-678 | 526 | RD15Y | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 588 | XMJ14 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 529 | D14N | .015 | 8 | .531 | 7 / 8 | BN-9A | A-678 |
| 594 | TJ83 | .025 | 8 | .375 | 13/16 | BN-9A | N-678 | 541 | RD16 | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 599 | J99 | NA | 8 | .375 | 13/16 | NONE | N-678 | 542 | B86N | .012 | 8 | .813 | 7/8 | BN-9A | A-678 |
| 603 | XML12 | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 543 | D89D | .025 | 8 | .500 | 7/8 | NA-9E | A-678 |
| 610 | REL88B | .020 | 8 | .500 | 13/16 | SHIELDED | N-678 | 547 | RTM77N | .019 | 8 | .531 | 1 | BN-9A | A-678 |
| 612 | RML12 | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 548 | RTM79 | .025 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 614 | XEN14 | .025 | 8 | .750 | 7/8 | SHIELDED | N-678 | 549 | D18Y | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 616 | XMN12 | .025 | 8 | .750 | 7/8 | SHIELDED | N-678 | 550 | ED14 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 633 | XML15Y | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 555 | UD16 | .025 | 6 | .500 | 7/8 | ZN-9A | A-678 |
| 642 | RN79G | .025 | 8 | .750 | 13/16 | NONE | N-678 | 563 | XED16 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| | | | | | | | | 564 | D16J | .030 | 6 | .500 | 7/8 | NONE | A-678 |
| | | | | | | | | 566 | M82N | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| | | | | | | | | 568 | REM77N | .015 | 8 | .531 | 7/8 | SHIELDED | A-678 |



| STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | HEX INCHES | TERMINAL THREAD NUT | REPL. GASKET | STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | HEX INCHES | TERMINAL THREAD NUT | REPL. GASKET |
|------------------------------------|-----------|------------|-----------|--------------|------------|---------------------|--------------|------------------------------------|-----------|------------|-----------|--------------|------------|---------------------|--------------|
| 18mm THREAD DIAMETER | | | | | | | | 7 / 8" - 18 THREAD DIAMETER | | | | | | | |
| 571 | RM79F | .015 | 8 | .500 | 7/8 | BN-9A | A-678 | 580 | W80N | .013 | 8 | .600 | 15/16 | BN-9A | A-478 |
| 572 | XED14 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | 582 | RW82P | .012 | 8 | .625 | 15/16 | BN-9A | A-478 |
| 576 | RB76N | .012 | 8 | .802 | 7/8 | BN-9A | A-678 | 589 | W89D | .025 | 8 | .625 | 15/16 | NA-9E | A-478 |
| 583 | RHM83N | .015 | 8 | .531 | 7/8 | SHIELDED | A-678 | 595 | C95F | .020 | 8 | .625 | 11/8 | NA-9E | A-478 |
| 585 | RHM85G | .015 | 1 | .500 | 7/8 | SHIELDED | A-678 | 623 | RGC80F | .013 | 1 | .625 | 11/8 | NONE | A-478 |
| 586 | RGM86N | .013 | 1 | .500 | 7/8 | NONE | A-678 | 631 | RW78N | .012 | 4 | .860 | 15/16 | BN-9A | A-478 |
| 591 | RM85G | .013 | 8 | .500 | 7/8 | BN-9A | A-678 | 635 | RHW78N | .012 | 4 | .860 | 1 | SHIELDED | A-478 |
| 593 | RD18Y | .035 | 6 | .500 | 7/8 | NONE | A-678 | 638 | RTW80N | .012 | 1 | .625 | 1 | BN-9A | A-478 |
| 596 | RHM77N | .015 | 8 | .531 | 7/8 | SHIELDED | A-678 | 645 | RTW83F | .012 | 1 | .625 | 1 | BN-9A | A-478 |
| 597 | K97F | .020 | 8 | .688 | 1 | ZN-9A | A-678 | | | | | | | | |
| 624 | RHB81N | .012 | 8 | .813 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 625 | D78Y | .015 | 8 | .500 | 7/8 | ZN-9A | A-678 | | | | | | | | |
| 630 | M82N | .012 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 634 | RB77WPC | .012 | 4 | .813 | 7/8 | NONE | A-678 | | | | | | | | |
| 636 | RB77WPC | .012 | 4 | .813 | 7/8 | NONE | A-678 | | | | | | | | |
| 639 | RHM83N | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 640 | RM77N | .012 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 641 | RM77N | .020 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 643 | RB75N | .012 | 4 | .802 | 7/8 | NONE | A-678 | | | | | | | | |
| 646 | RTB80N | .012 | 8 | .813 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 647 | M76R | .016 | 8 | .500 | 7/8 | ZN-9A | M-674 | | | | | | | | |
| 649 | XMD15 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 91 | H14Y | .035 | 4 | .438 | 13/16 | NONE | A-678 | | | | | | | | |
| 7 / 8" - 18 THREAD DIAMETER | | | | | | | | | | | | | | | |
| 1204 | RHW80PP | .012 | 8 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 1207 | RW80PP | .012 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 200 | RW80N | .015 | 4 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 201 | W77N | .012 | 8 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 202 | W80N | .020 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 203 | W85N | .020 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 206 | RW77N | .015 | 4 | 1.000 | 1 | BN-9A | A-478 | | | | | | | | |
| 228 | RW77PP | .012 | 4 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 510 | W10 | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 513 | C97B | .025 | 8 | 1.250 | 11/8 | A-146 | A-478 | | | | | | | | |
| 518 | W18 | .025 | 8 | .750 | 15/16 | NA-9E | A-478 | | | | | | | | |
| 520 | W20 | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 532 | RHW80N | .013 | 4 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 534 | REW80N | .012 | 8 | .600 | 15/16 | SHIELDED | A-478 | | | | | | | | |
| 539 | W77N | .015 | 8 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 544 | HW83F | .012 | 1 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 545 | W85N | .013 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 552 | RGC77N | .012 | 1 | 1.000 | 1 | NONE | A-478 | | | | | | | | |
| 553 | RW80N | .012 | 4 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 559 | RW83F | .012 | 8 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 561 | W16Y | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 562 | W95D | .040 | 8 | .625 | 15/16 | A-146 | A-478 | | | | | | | | |
| 565 | RW77N | .012 | 4 | 1.000 | 1 | BN-9A | A-478 | | | | | | | | |
| 569 | W14 | .030 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 577 | RHW77N | .015 | 4 | 1.000 | 1 | SHIELDED | A-478 | | | | | | | | |
| 578 | REW82P | .012 | 8 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 579 | RHW79N | .012 | 4 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |



HEAT RANGE CHART

| Heat Range | Thread Reach (inches) | Hex Size (inches) | STANDARD | | | INTERGRAL COIL | | | SHIELDED | | |
|--------------------------------------|-----------------------|-------------------|-----------------------------------|--|---|------------------------|---------------------------------------|---------------------|-----------|-----------|--|
| | | | Copper Plus | Precious Metal | Precious Metal Long Life | 13/16" External Thread | 13/16" External Thread Precious Metal | 1" Internal Threads | 5/8" - 24 | 3/4" - 20 | 3/4" - 20 Precious Metal |
| 14mm THREAD DIAMETER | | | | | | | | | | | |
| 4 | 3/8" | 13/16" | | | | TJ83 | | | | | |
| 3 | 1/2" | 5/8" | | RX85PYP | | | | | | | |
| 6 | 1/2" | 13/16" | | | | | | | REL89G* | | |
| 4 | 1/2" | 13/16" | RL15B | RL85G | | | | | REL88B* | | |
| 4 | 1/2" | 13/16" | | | | | RTL85G | | | | |
| 3 | 1/2" | 7/8" | | | | | | | | RHL79G* | |
| 3 | 3/4" | 5/8" | | RC78PYP | | | | | | | |
| 2 | 3/4" | 5/8" | RC78YCC15 | RC78PYP15 RC78PYP17 RC78PYP21 RC78PYP25 | RC78WP RC78WYP11 RC78WYP15 | | | | | | |
| 2 | 3/4" | 13/16" | | RN79G RN79G1 | RN79PYP17 RN79PYP25 | | | | | RHN79G* | |
| 2 | 3/4" | 15/16" | | | | | RTN79G RTN79WYP15 | | | | |
| 18mm THREAD DIAMETER | | | | | | | | | | | |
| 7 | 1/2" | 7/8" | D89D | | | | | | ED89D* | | |
| 6 | 1/2" | 7/8" | D14N | | | | | | | | |
| 5 | 1/2" | 7/8" | | RM85G | | | | | | | RHM85G* |
| 5 | 1/2" | 7/8" | D78Y | | | | | | | | |
| 4 | 1/2" | 7/8" | M82N | | RM82WPCC | | RTM82WPCC | | REM84P* | RHM83N* | |
| 3 | 1/2" | 7/8" | RM79F | | | | RTM79 | | | | |
| 3 | 1/2" | 7/8" | RM77N | RM77PP | | | RTM77N RTM78N | RTM77PP | RGM86N | REM77N* | RHM77N* RHM78N* RHM78WPCC* RHM78PP* |
| 7 | 0.691" | 1" | K97F | | | | | | | | |
| 1 | 13/16" | 13/16" | | | RB75WPCC | | | | | | |
| 5 | 13/16" | 7/8" | B86N | | | | | | | | |
| 1 | 13/16" | 7/8" | | | | | RTB78N RTB80N | | | | RHB81N* |
| 1 | 13/16" | 7/8" | RB77CC RB77N KB75N RB75N | RB75PP | FB77WPCC KB77WPCC RB77WPCC RB77WPC | | | RTB77WPCC | | | |
| 1 | 13/16" | 7/8" | RB76N | RB76PP | | | | | | | |
| 7/8" - 18mm THREAD DIAMETER | | | | | | | | | | | |
| 7 | 5/8" | 15/16" | W95D W89D | | | | | | | | |
| 7 | 5/8" | 15/16" | W20 | | | | | | | | |
| 6 | 5/8" | 15/16" | W16Y W14 W10 | | | | | | | | |
| 5 | 5/8" | 15/16" | W85N | RW82P | | | | | | | |
| 3 | 5/8" | 15/16" | W80N RW80N | RW80PP | | | | | | | |
| 4 | 5/8" | 1" | | | | | | | | REW82P* | |
| 3 | 5/8" | 1" | RW83F | | | | RTW83F RTW80N | | | REW80N* | RHW80N* RHW79N* HW83F* RHW80PP* |
| 7 | 5/8" | 1 1/8" | C95F | | | | | | | | |
| 3 | 5/8" | 1 1/8" | | | | | | | RGC80F | | |
| 7 | 3/4" | 15/16" | W18 | | | | | | | | |
| 3 | .860" | 1" | RW78N | | | | | | | | RHW78N* |
| 3 | 1" | 1" | W77N RW77N | | RW77PP | | | | | | RHW77N* |
| 3 | 1" | 1 1/8" | | | | | | | RGC77N | | |
| 7 | 1 1/4" | 1 1/8" | C97B | | | | | | | | |
| 1 1/8" - 12mm THREAD DIAMETER | | | | | | | | | | | |
| 3 | 0.595 | 1 | RS79N | | | | | | | | |

| HEAT RANGE (IMEP) | | IMEP established per SAE J549 | | | | | | |
|-------------------|---|-------------------------------|---------|---------|---------|---------|---------|-----|
| COLD | 1 | 2 | 3 | 4 | 5 | 6 | 7 | HOT |
| | | 400+ | 350-400 | 300-350 | 250-300 | 200-250 | 150-200 | |

* 1" shielded spark plug depth.
• 2" shielded spark plug depth

REPLACEMENTS FOR DISCONTINUED SPARK PLUGS



This list contains industrial spark plugs that have been discontinued. See the Champion Master Application Catalog. Refer to the Champion policy on Unsalable Product or consult your supplier or Champion Representative on the handling of these plug types.

| Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug |
|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| 0-COM | 510 / W10 | J13-0 | 525 / 25 | RJ18Y | 58 / RJ18YC | JAS43 | 561 / W16Y | E7 | 563 / XED16 |
| C0 | 569 / W14 | J13Y | 63 / RJ14YC | 2 | 518 / W18 | JB43 | 518 / W18 | J7 | 871 / RJ8C |
| 1 | 569 / W14 | K13 | 514 / D14 | 2-COM | 518 / W18 | JC43 | 561 / W16Y | J7J | 871 / RJ8C |
| 1-COM | 569 / W14 | N13L | 101 / RN13LYC | 2-COM-L | 518 / W18 | G44 | 520 / W20 | K7 | 506 / D6 |
| C1 | 518 / W18 | N13Y | 405 / RN14YC | N2 | 818 / RN2C | GH44 | 518 / W18 | K7 | 506 / D6 |
| ORD-1 | 588 / XMJ14 | RN13L | 101 / RN13LYC | RN2 | 818 / RN2C | 45 | 562 / W95D | N7Y | 332 / RN7YC |
| TAC-1 | 610 / REL88B | 14 | 541 / RD16 | RN2G | 818 / RN2C | 46 | 562 / W95D | R7B | 506 / D6 |
| 10 | 541 / RD16 | A14 | 525 / 25 | TAC-2 | 612 / RML12 | 49 | 543 / D89D | RN7Y | 332 / RN7YC |
| 10-COM | 523 / D23 | A14-0 | 525 / 25 | UJ2J | 825 / J4C | E49 | 505 / ED89D | XE7 | 563 / XED16 |
| 10-COM-64 | 523 / D23 | C14 | 525 / 25 | 20 | 520 / W20 | XE49 | 505 / ED89D | XEJ7 | 557 / XEJ8 |
| C10S | 557 / XEJ8 | EJ14 | 567 / XEJ12 | RJ20Y | 58 / RJ18YC | 5 | 429 / 3X | XEL7A | 610 / REL88B |
| D10 | 509 / D9 | F14Y | 21 / RF14YC | 21 | 510 / W10 | 5-COM | 509 / D9 | XJ7 | 871 / RJ8C |
| EH10 | 610 / REL88B | FN14LY | 412 / RC12LYC | XED21 | 563 / XED16 | 5M | 509 / D9 | 72 | 510 / W10 |
| H10 | 854 / RH10C | H014S | NR | 22 | 520 / W20 | 5MJ | 509 / D9 | 73 | 510 / W10 |
| J10-COM | 102 / RJ6C | J14 | 592 / RJ12C | J23 | 525 / 25 | C5 | 569 / W14 | RB75WPC | 242 / RB75WPCC |
| J10-COM-J | 102 / RJ6C | J14-64CL | 599 / J99 | A24 | 525 / 25 | J5J | 102 / RJ6C | D77V | 506 / D6 |
| J10Y | 14 / RJ12YC | J14C1 | 599 / J99 | G24 | 525 / 25 | L5 | 874 / RL82C | HW77N | 596 / RHM77N |
| RF10 | 129 / RF10C | J14J | 846 / CJ14 | A25 | 525 / 25 | L5J | 874 / RL82C | RM78P | 519 / RM77N |
| RH10 | 854 / RH10C | J14Y | 63 / RJ14YC | A26 | 541 / RD16 | N5 | 123 / RN5C | REN79G | NR |
| RN10Y | 322 / RN11YC4 | J14YC | 63 / RJ14YC | 29 | 525 / 25 | RN5 | 123 / RN5C | 8 | 541 / RD16 |
| UK10 | 509 / D9 | MJ14 | 588 / XMJ14 | 3 | 561 / W16Y | X5-COM | 509 / D9 | 8-COM | 541 / RD16 |
| XEH10 | 610 / REL88B | N14LY | 101 / RN13LYC | 3-COM | 518 / W18 | A53 | 518 / W18 | 8-COM-C | 523 / D23 |
| RWP102 | 582 / RW82P | N14Y | 405 / RN14YC | N3 | 880 / RN3C | AA53 | 518 / W18 | 8-COM-D | 523 / D23 |
| 0N11Y | 322 / RN11YC4 | RD14M | 514 / D14 | RN3 | 880 / RN3C | B53 | 561 / W16Y | 8-COM-K | 526 / RD15Y |
| 11 | 541 / RD16 | RD14M | 514 / D14 | 30 | 525 / 25 | JA53 | 518 / W18 | 8-SPEC | 541 / RD16 |
| EH11 | 610 / REL88B | RF14Y | 21 / RF14YC | 31 | 525 / 25 | JC53 | 518 / W18 | D8 | 597 / K97F |
| EJ11 | 567 / XEJ12 | RF14Y4 | 21 / RF14YC | 32 | 525 / 25 | 00-55-1 | 627 / F-6A-13 | DJ8 | 865 / RDJ8J |
| F11Y | 22 / RF11YC | RJ14Y | 63 / RJ14YC | 34 | 525 / 25 | 00-55-2 | NR | DL8 | 597 / K97F |
| F11YC | 22 / RF11YC | RN14Y | 405 / RN14YC | A34 | 525 / 25 | 00-55-3 | NR | DL8C | 597 / K97F |
| H11 | 854 / RH10C | UEJ14 | 567 / XEJ12 | 35 | 520 / W20 | 6 | 518 / W18 | E8-COM | 563 / XED16 |
| H11J | 854 / RH10C | XD14 | 514 / D14 | 35-COM | 518 / W18 | 6-COM | 514 / D14 | ED8 | 597 / K97F |
| J11 | 511 / J11C | XEJ14 | 567 / XEJ12 | CH36001 | 547 / RTM77N | 6-COM-62 | 514 / D14 | EDL8 | 597 / K97F |
| J11J | 511 / J11C | 15 | 541 / RD16 | CH36002 | 548 / RTM79 | 6-COM-D | 514 / D14 | EH08 | 610 / REL88B |
| J11Y | 14 / RJ12YC | 15A | 541 / RD16 | CH36003 | 540 / RTN79G | 6M | 514 / D14 | EH8 | 610 / REL88B |
| K11 | 509 / D9 | 15-SPEC | 541 / RD16 | CH36004 | 556 / RTL85G | 6MJ | 506 / D6 | EJ8 | 557 / XEJ8 |
| N11Y | 322 / RN11YC4 | A15 | 525 / 25 | CH36006 | NR | DJ6 | 851 / DJ6J | EJ8J | 557 / XEJ8 |
| RBL11Y6 | 79 / RV15YC6 | C15 | 502 / D21 | CH36007 | NR | DJ6Y | 872 / RDJ7Y | H08A | 533 / UJ11G |
| RF11Y | 22 / RF11YC | J15 | 514 / D14 | CH36008 | 556 / RTL85G | EJ6 | 557 / XEJ8 | J8 | 871 / RJ8C |
| RJ11Y | 14 / RJ12YC | K15J | 514 / D14 | CH36009 | 540 / RTN79G | EJ6J | 557 / XEJ8 | J8J | 871 / RJ8C |
| RN11Y | 322 / RN11YC4 | UD15Y | 526 / RD15Y | CH36010 | 625 / D78Y | J6 | 102 / RJ6C | JT8 | 840 / RCJ8 |
| RN11YC | 322 / RN11YC4 | XEC15 | 563 / XED16 | REB37E | NR | J6J | 102 / RJ6C | K8 | 509 / D9 |
| XEH11 | 610 / REL88B | 16 | 541 / RD16 | CH38016 | NR | J6JM | 102 / RJ6C | N8 | 123 / RN5C |
| XEJ11 | 567 / XEJ12 | C16C | 561 / W16Y | 4 | 561 / W16Y | N6 | 123 / RN5C | RJ8 | 871 / RJ8C |
| XH11 | 854 / RH10C | ED16 | 563 / XED16 | 4-COM | 506 / D6 | N6Y | 339 / RN6YC | RJ8J | 871 / RJ8C |
| UK112 | 506 / D6 | H16 | 506 / D6 | C4X | 561 / W16Y | RD6 | 506 / D6 | RN8 | 123 / RN5C |
| EJ12 | 567 / XEJ12 | H16A | 506 / D6 | J4 | 825 / J4C | RJ6 | 102 / RJ6C | TJ8J | 840 / RCJ8 |
| J12 | 592 / RJ12C | N16Y | 405 / RN14YC | J4J | 825 / J4C | RJ6J | 102 / RJ6C | UCJ8G | 840 / RCJ8 |
| J12Y | 14 / RJ12YC | N16YC | 405 / RN14YC | N4 | 104 / RN4C | RN6 | 123 / RN5C | UJ8 | 871 / RJ8C |
| K12G | 514 / D14 | RD16J | 541 / RD16 | QC4 | 561 / W16Y | RN6Y | 339 / RN6YC | X8-COM | 541 / RD16 |
| KJ12 | 592 / RJ12C | RD16M | 541 / RD16 | RJ4 | 825 / J4C | UJ6 | 102 / RJ6C | XE8-COM | 563 / XED16 |
| N12Y | 404 / RN12YC | RN16Y | 405 / RN14YC | RJ4J | 825 / J4C | UJ6M | 102 / RJ6C | XEH8 | 557 / XEJ8 |
| RF12 | 129 / RF10C | UED16 | 563 / XED16 | RN4 | 104 / RN4C | X6-COM | 514 / D14 | XEH8J | 557 / XEJ8 |
| RF12-5 | 129 / RF10C | UK16V | 506 / D6 | TAC-4 | 603 / XML12 | XD6E6-COM | 572 / XED14 | XEJ8J | 557 / XEJ8 |
| RJ12Y | 14 / RJ12YC | XD16 | 541 / RD16 | X4-COM | 506 / D6 | XE6-COM | 572 / XED14 | XJ8 | 871 / RJ8C |
| RJ12Y6 | 66 / RJ18YC6 | XD16J | 541 / RD16 | 40 | 597 / K97F | XEJ6 | 557 / XEJ8 | XJ8J | 871 / RJ8C |
| RJ12YC6 | 66 / RJ18YC6 | H17 | 509 / D9 | 41 | 597 / K97F | XEJ6J | 557 / XEJ8 | HW80N | 532 / RHW80N |
| RN12Y | 404 / RN12YC | H17A | 509 / D9 | 42 | 597 / K97F | 62S | 572 / XED14 | RF80N | 129 / RF10C |
| XH12 | 854 / RH10C | 18 | 514 / D14 | 43 | 518 / W18 | A64 | 541 / RD16 | RGC80N | NR |
| 13 | 541 / RD16 | H18Y | 857 / RH18Y | A43 | 569 / W14 | 7 | 541 / RD16 | RGC80N | NR |
| A13 | 525 / 25 | J18Y | 58 / RJ18YC | B43 | 561 / W16Y | 7-COM | 541 / RD16 | RM80F | 571 / RM79F |
| J13 | 525 / 25 | J18YC | 58 / RJ18YC | JA43 | 561 / W16Y | C7 | 541 / RD16 | 808 | 529 / D14N |

NR - No Replacement



REPLACEMENTS FOR DISCONTINUED SPARK PLUGS

This list contains industrial spark plugs that have been discontinued. See the Champion Master Application Catalog. Refer to the Champion policy on Unsalable Product or consult your supplier or Champion Representative on the handling of these plug types.

| Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug | Discont'd Plug | Replaced By Plug |
|----------------|------------------|----------------|------------------|----------------|------------------|----------------|------------------|
| EC85N | 534 / REW80N | | | | | | |
| RL85P | 1224 / RL85G | | | | | | |
| TN85Y | 540 / RTN79G | | | | | | |
| RL86 | 830 / RL86C | | | | | | |
| C87S | 610 / REL88B | | | | | | |
| L87Y | 327 / RL87YC | | | | | | |
| RJ87P | 14 / RJ12YC | | | | | | |
| RL87Y | 327 / RL87YC | | | | | | |
| C88 | 610 / REL88B | | | | | | |
| C88S | 610 / REL88B | | | | | | |
| ED88F | 505 / ED89D | | | | | | |
| H88 | 538 / RH8C | | | | | | |
| K88S | 610 / REL88B | | | | | | |
| L88 | 830 / RL86C | | | | | | |
| RC88S | 610 / REL88B | | | | | | |
| UED88G | 572 / XED14 | | | | | | |
| RHL89G | NR | | | | | | |
| UED89D | 505 / ED89D | | | | | | |
| XED89D | 505 / ED89D | | | | | | |
| XED89DXI | 505 / ED89D | | | | | | |
| 9 | 502 / D21 | | | | | | |
| 9-COM | 523 / D23 | | | | | | |
| D9J | 509 / D9 | | | | | | |
| D9JM | 509 / D9 | | | | | | |
| ED9 | 550 / ED14 | | | | | | |
| EH9 | 610 / REL88B | | | | | | |
| F9Y | 409 / RF9YC | | | | | | |
| F9YC | 409 / RF9YC | | | | | | |
| H9 | 538 / RH8C | | | | | | |
| H9-COM | 538 / RH8C | | | | | | |
| H9J | 538 / RH8C | | | | | | |
| K9 | 509 / D9 | | | | | | |
| N9Y | 415 / RN9YC | | | | | | |
| RD9 | 509 / D9 | | | | | | |
| RF9Y | 409 / RF9YC | | | | | | |
| RF9Y5 | 409 / RF9YC | | | | | | |
| RN9Y | 415 / RN9YC | | | | | | |
| XD9 | 509 / D9 | | | | | | |
| XE9 | 572 / XED14 | | | | | | |
| XED9-COM | 572 / XED14 | | | | | | |
| XEH9 | 610 / REL88B | | | | | | |
| XH9 | 538 / RH8C | | | | | | |
| EW90 | NR | | | | | | |
| E901 | 534 / REW80N | | | | | | |
| ED91 | 505 / ED89D | | | | | | |
| HC95F | 544 / HW83F | | | | | | |
| K98F | 597 / K97F | | | | | | |



**CAUTION. DO NOT USE THIS CHART
UNLESS YOU ARE UNABLE TO FIND YOUR VEHICLE OR EQUIPMENT LISTED IN THE APPLICATION SECTIONS OF THIS CATALOG.**

A/C Delco To Champion

| A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champion |
|-----------|-------------|-----------|--------------|-----------|--------------|-----------|-------------|-----------|--------------|
| 373 | D9 / 509 | WR43LR | RML12 / 612 | C77L | W18 / 518 | C77 | W16Y / 561 | C75 | W14 / 569 |
| C73 | W10 / 510 | 800LY | B86N / 542 | 78S | W20 / 520 | 701Y | W85N / 545 | 700YX | W80N / 580 |
| 700Y | W80N / 580 | 43LS | H14Y / 91 | 18A | D89D / 543 | C83 | D9 / 509 | 404 | RL85G / 1224 |
| C85S | RD15Y / 526 | 373 | D6 / 506 | 26 | 25 / 525 | 18 | W89D / 589 | 17 | W95D / 562 |
| 16 | K97F / 597 | 14 | K97F / 597 | WR87 | XMD21 / 521 | WR86 | XMD21 / 521 | WR84 | XMD15 / 649 |
| WR47 | XMJ14 / 588 | WR46 | XMJ17 / 517 | WR44LS | XML15Y / 633 | WR44 | XMJ14 / 588 | 16L | K97F / 597 |
| S82F | D9 / 509 | WR43L | XML12 / 603 | WR43 | XMJ14 / 588 | SR86E | XED16 / 563 | SR84E | XED14 / 572 |
| SR47XL | XEN14 / 614 | SR47LE | REL88B / 610 | SR47E | XEJ12 / 567 | SR46E | XEJ12 / 567 | SR45LE | REL88B / 610 |
| SR44E | XEJ8 / 557 | SR43LE | REL88B / 610 | SR43E | XEJ8 / 557 | C81 | D14N / 529 | S83F | D9 / 509 |
| C82 | D9 / 509 | R800 | RM77N / 519 | G59 | 25 / 525 | G56 | 25 / 525 | G54 | C95F / 595 |
| G53 | C95F / 595 | CR83 | D9 / 509 | CR82 | D9 / 509 | C88L | D23 / 523 | C88 | D21 / 502 |
| C87 | D16 / 516 | C86S | D18Y / 549 | C86 | D14N / 529 | C86 | D14 / 514 | S85F | D14 / 514 |
| C85 | D14 / 514 | | | | | | | | |

Allis-Chalmers To Champion

| Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champion |
|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|----------------|-----------|
| 74905796 | N5C / 120 | 79001652 | J6C / 823 | 79001651 | N5C / 120 | 74905800 | D16 / 516 | 74905798 | N5C / 120 |
| 4907335 | J8C / 841 | 4905800 | D16 / 516 | 4905797 | N5C / 120 | | | | |

Autolite To Champion

| Autolite | Champion | Autolite | Champion | Autolite | Champion | Autolite | Champion | Autolite | Champion |
|----------|--------------|----------|--------------|----------|--------------|----------|-------------|----------|--------------|
| 2222 | XED14 / 572 | 373 | D9 / 509 | 2247 | XMJ20 / 573 | 2246 | XEJ12 / 567 | 2245 | XMJ17 / 517 |
| 2244 | XEJ8 / 557 | 2243 | XMJ14 / 588 | 2242 | XEJ8 / 557 | 2227 | XMD21 / 521 | 2226 | XMD21 / 521 |
| 2225 | XED16 / 563 | 2285 | REL88B / 610 | 2223 | XMD15 / 649 | 2304 | XMN12 / 616 | 436 | H14Y / 91 |
| 398 | N21 / 504 | 388 | D21 / 502 | 386 | RD16 / 541 | 379 | D89D / 543 | 378 | D23 / 523 |
| 377 | D21 / 502 | 376 | D16 / 516 | 375 | D14 / 514 | 374 | D9 / 509 | 2224 | XMD21 / 521 |
| 2696 | D9 / 509 | 3116 | D18Y / 549 | 3095 | 25 / 525 | 3077 | W89D / 589 | 3076 | W14 / 569 |
| 3075 | W14 / 569 | 3074 | W10 / 510 | 3035 | UD16 / 555 | 2832 | D6 / 506 | 2775 | D16 / 516 |
| 2773 | D9 / 509 | 2248 | XEJ12 / 567 | 2697 | D14 / 514 | 372 | D6 / 506 | 2695 | D6 / 506 |
| 2693 | D6 / 506 | 2384 | XML12 / 603 | 2384 | XML15Y / 633 | 2344 | RML12 / 612 | 2327 | REL88B / 610 |
| 2326 | REL88B / 610 | 2325 | REL88B / 610 | 2307 | XEN14 / 614 | 2305 | XMN12 / 616 | 2772 | D9 / 509 |

BERU To Champion

| BERU | Champion | BERU | Champion | BERU | Champion | BERU | Champion | BERU | Champion |
|---------|----------------|---------|---------------|---------|--------------|---------|-------------|--------|--------------|
| 18GZ7 | RB76N / 576 | 143CPU | RN79G / 530 | 14R4ADP | RL85G / 1224 | 14R4CDP | RN79G / 530 | 14R4DP | RL85G / 1224 |
| 18GZ577 | RB75WPCC / 242 | 18GZ677 | RB77WPC / 636 | | | | | | |

BG To Champion

| BG | Champion | BG | Champion | BG | Champion | BG | Champion | BG | Champion |
|---------|--------------|----------|--------------|---------|--------------|--------|--------------|---------|--------------|
| RB485S | RHM85G / 585 | RB485SA | RHM85G / 585 | RB590 | RL85G / 1224 | RB590S | REL89G / 522 | RB792S | RHL79G / 551 |
| RB842S | RHW80N / 531 | RB485S | REM84P / 503 | RB959SA | RHM77N / 596 | RB212 | RW82P / 582 | RB959S | RHM77N / 596 |
| RB485 | RM85G / 591 | RB442SAW | RHM83N / 583 | RB993R | RN79G / 530 | RB312S | REW82P / 578 | RB442SW | RHM83N / 583 |
| RB126SD | RHW77N / 577 | RB1141 | RW77N / 565 | RB106 | RS79N / 598 | BG883T | RF10C / 129 | RB312S | ED89D / 505 |
| RB412 | RW82P / 582 | | | | | | | | |

Bosch To Champion

| Bosch | Champion | Bosch | Champion | Bosch | Champion | Bosch | Champion | Bosch | Champion |
|-----------|-----------------|-----------|----------------|-----------|----------------|----------|----------------|-----------|------------------|
| M4A2 | D6 / 506 | M8AC0 | D9 / 509 | M8A0 | D9 / 509 | M8A | D9 / 509 | M7AC | D6 / 506 |
| M7A | D6 / 506 | M5AS | D6 / 506 | M5AC | D6 / 506 | W10C | N21 / 504 | M4AC | D6 / 506 |
| M10A0 | D14 / 514 | M4A1 | D6 / 506 | M12A | D16 / 516 | M10AC0 | D14 / 514 | M10A | D14 / 514 |
| 60999S | RB77WPCC / 634 | 7311 | RN79G / 642 | M5A | D6 / 506 | 7306 | KB77WPCC / 229 | WR3CPP33 | RN79G / 642 |
| MR3DPP330 | FB77WPCC / 1230 | MR3DPP330 | KB77WPCC / 229 | MR3BPP330 | RM77PP / 217 | MR3DPP33 | RB75PP / 225 | FR3KI1332 | RC78WYP15 / 1221 |
| 7307 | RB75WPCC / 242 | WR7CE+ | RN5C / 123 | 7306 | RB77WPCC / 634 | 7303 | RM77PP / 217 | 7302 | RB75PP / 225 |
| 60999Z | RB77CC / 237 | | | | | | | | |

Case To Champion

| Case | Champion | Case | Champion | Case | Champion | Case | Champion | Case | Champion |
|----------|-----------|--------|-----------|---------|-----------|---------|------------|---------|------------|
| AO5999AB | J8C / 841 | O5999B | J8C / 841 | TG44840 | D16 / 516 | TM20007 | H10C / 844 | TM20699 | L86C / 306 |

Caterpillar To Champion

| Caterpillar | Champion | Caterpillar | Champion | Caterpillar | Champion | Caterpillar | Champion | Caterpillar | Champion |
|-------------|----------------|-------------|------------|-------------|----------------|-------------|------------|-------------|------------|
| 9B0444 | J6C / 823 | 3B6583 | H10C / 844 | 2A3643 | D16 / 516 | 2B9548 | W14 / 569 | 2W9486 | N9YC / 300 |
| 1948518 | KB77WPCC / 229 | 8F6347 | CJ8 / 843 | 2848313 | KB77WPCC / 229 | 9M4141 | J12YC / 10 | 23643 | D16 / 516 |
| 9M4142 | J12YC / 10 | | | | | | | | |



**CAUTION. DO NOT USE THIS CHART
UNLESS YOU ARE UNABLE TO FIND YOUR VEHICLE OR EQUIPMENT LISTED IN THE APPLICATION SECTIONS OF THIS CATALOG.**

Champion Plug Type To Champion

| Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion |
|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|----------------------|----------|
| Type | Type | Type | Type | Type | Type | Type | Type | Type | Type |
| RB77WPCC (Gap .007) | 1205 | RTM77PP (Gap .012) | 223 | RTM77N (Gap .019) | 547 | RTM77N (Gap .012) | 214 | W20 (Gap .025) | 520 |
| RM77N (Gap .020) | 641 | D14N (Gap .015) | 529 | RM77N (Gap .015) | 519 | RHM77N (Gap .020) | 213 | RB77WPCC (Gap .012) | 634 |
| REM77N (Gap .015) | 568 | M76R (Gap .016) | 647 | RHM83N (Gap .015) | 583 | D78Y (Gap .015) | 625 | RB77WPC (Gap .012) | 636 |
| RB77CC (Gap .012) | 237 | RTB77WPCC (Gap .012) | 235 | KB77WPCC (Gap .012) | 229 | RB76PP (Gap .012) | 226 | RB76N (Gap .012) | 576 |
| RHM77N (Gap .015) | 596 | RHB81N (Gap .012) | 624 | RM77N (Gap .012) | 640 | RB75WPCC (Gap .012) | 242 | B86N (Gap .012) | 542 |
| RM85G (Gap .013) | 591 | RHM85G (Gap .015) | 585 | REM84P (Gap .015) | 503 | RHM83N (Gap .025) | 639 | RM82WPCC (Gap .012) | 233 |
| M82N (Gap .015) | 566 | RTM82WPCC (Gap .012) | 1225 | RHM78N (Gap .015) | 234 | RTN79WYP (Gap .015) | 1232 | RTB80N (Gap .012) | 646 |
| RTM79 (Gap .025) | 548 | RM79F (Gap .015) | 571 | RTM78N (Gap .019) | 1202 | RTM78N (Gap .012) | 1201 | RTB78N (Gap .012) | 1203 |
| RHM78WPCC (Gap .012) | 236 | RHM78PP (Gap .012) | 222 | M82N (Gap .012) | 630 | RW78N (Gap .012) | 631 | W80N (Gap .013) | 580 |
| XMJ20 (Gap .025) | 573 | XMJ14 (Gap .025) | 588 | XEJ12 (Gap .025) | 567 | XEJ8 (Gap .025) | 557 | RHW77N (Gap .015) | 577 |
| RM77PP (Gap .015) | 217 | RW77N (Gap .015) | 206 | RB75PP (Gap .012) | 225 | RW77PP (Gap .012) | 228 | W77N (Gap .012) | 201 |
| RJ88P (Gap .015) | 644 | RHW78N (Gap .012) | 635 | RML12 (Gap .025) | 612 | D89D (Gap .025) | 543 | ED89D (Gap .025) | 505 |
| K97F (Gap .020) | 597 | RHW79N (Gap .012) | 579 | REW80N (Gap .012) | 534 | RGC80F (Gap .013) | 623 | RHW80N (Gap .013) | 532 |
| RHW80PP (Gap .012) | 1204 | RTW80N (Gap .012) | 638 | RW80N (Gap .012) | 553 | RW80N (Gap .015) | 200 | RW80PP (Gap .012) | 1207 |
| W77N (Gap .015) | 539 | RC78PYP17 (Gap .017) | 232 | D14 (Gap .025) | 514 | D9 (Gap .025) | 509 | RTN79G (Gap .015) | 540 |
| RN79PYP17 (Gap .017) | 247 | RN79G (Gap .025) | 642 | RN79G (Gap .015) | 530 | XEN14 (Gap .025) | 614 | XMN12 (Gap .025) | 616 |
| RHN79G (Gap .015) | 575 | RC78WP (Gap .012) | 1206 | RC78YCC15 (Gap .015) | 1209 | TJ83 (Gap .025) | 594 | RC78PYP21 (Gap .021) | 244 |
| RW77N (Gap .012) | 565 | RC78PYP15 (Gap .015) | 243 | RC78PYP (Gap .021) | 219 | RC78PYP (Gap .017) | 1208 | RC78PYP (Gap .015) | 218 |
| RX85PYP (Gap .012) | 230 | REL89G (Gap .015) | 522 | REL88B (Gap .020) | 610 | RTL85G (Gap .015) | 556 | RHL79G (Gap .015) | 551 |
| XML15Y (Gap .025) | 633 | RL15B (Gap .015) | 535 | XML12 (Gap .025) | 603 | RC78PYP25 (Gap .025) | 241 | N21 (Gap .025) | 504 |
| W18 (Gap .025) | 518 | W16Y (Gap .025) | 561 | W14 (Gap .030) | 569 | W10 (Gap .025) | 510 | RGC77N (Gap .012) | 552 |
| D16J (Gap .030) | 564 | D18Y (Gap .027) | 549 | RD16 (Gap .027) | 541 | RD15Y (Gap .027) | 526 | 25 (Gap .030) | 525 |
| D23 (Gap .030) | 523 | D14N (Gap .025) | 204 | D6 (Gap .027) | 506 | Y82 (Gap .020) | 877 | D21 (Gap .027) | 502 |
| H14Y (Gap .035) | 91 | W80N (Gap .020) | 202 | J99 | 599 | RTV85G (Gap .025) | 1220 | RD18Y (Gap .035) | 593 |
| XMD21 (Gap .025) | 521 | XMJ17 (Gap .025) | 517 | RN79PYP25 (Gap .025) | 248 | RN79G1 (Gap .010) | 224 | RL85G (Gap .015) | 1224 |
| D15Y (Gap .027) | 515 | RS79N (Gap .012) | 598 | REW82P (Gap .012) | 578 | RW82P (Gap .012) | 582 | HW83F (Gap .012) | 544 |
| RTW83F (Gap .012) | 645 | RW83F (Gap .012) | 559 | W85N (Gap .013) | 545 | W85N (Gap .020) | 203 | W89D (Gap .025) | 589 |
| C95F (Gap .020) | 595 | W95D (Gap .040) | 562 | RB75N (Gap .012) | 643 | RGM86N (Gap .013) | 586 | FB77WPCC (Gap .012) | 1230 |
| XED16 (Gap .025) | 563 | ED14 (Gap .025) | 550 | XED14 (Gap .025) | 572 | XMD15 (Gap .025) | 649 | C97B (Gap .025) | 513 |
| UD16 (Gap .025) | 555 | RC78WYP15 (Gap .015) | 1221 | RC78WYP11 (Gap .011) | 1218 | RC78PYP (Gap .012) | 1213 | RB77WPCC (Gap .007) | 1205 |
| RB77WPCC (Gap .007) | 1205 | KB75N (Gap .012) | 1219 | D16 (Gap .025) | 516 | | | | |

DENSO To Champion

| DENSO | Champion | DENSO | Champion | DENSO | Champion | DENSO | Champion | DENSO | Champion |
|-------|-----------|-------|----------------|-------|-------------|-------|----------------|-------|----------------|
| MW22U | D9 / 509 | GI31A | KB77WPCC / 229 | GE31 | RN79G / 642 | M22 | D9 / 509 | M24S | D6 / 506 |
| U20MU | Y82 / 877 | GI33A | KB77WPCC / 229 | MW17U | D14 / 514 | W9EU | N21 / 504 | M17 | D14 / 514 |
| M14 | D16 / 516 | L14U | D16 / 516 | L14RU | RD16 / 541 | GL33A | RB75WPCC / 242 | GL31A | RB75WPCC / 242 |

Massey-Ferguson To Champion

| Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion |
|-----------------|--------------|-----------------|--------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|
| 834241MI | D16 / 516 | 834241MI | D16 / 516 | 834241MI | RF11YC / 22 | 834237MI | RF11YC / 22 | 834241MI | RF11YC / 22 |
| 834245MI | N5C / 120 | 834245MI | N5C / 120 | 834237MI | RF11YC / 22 | 834247MI | L86C / 306 | 834230MI | J8C / 841 |
| 834248MI | RF10C / 129 | 834247MI | L86C / 306 | 834236MI | N12YC / 38 | 834236MI | N12YC / 38 | 834234MI | L86C / 306 |
| 834234MI | L86C / 306 | 834232MI | J11C / 511 | 834230MI | J8C / 841 | 834225MI | J8C / 841 | 834225MI | J8C / 841 |
| 1060024MI | RV12YC / 406 | 1060024MI | RV12YC / 406 | 834248MI | RF10C / 129 | 834232MI | J11C / 511 | | |

Motorcraft To Champion

| Motorcraft | Champion | Motorcraft | Champion | Motorcraft | Champion | Motorcraft | Champion | Motorcraft | Champion |
|------------|--------------|------------|--------------|------------|-------------|------------|--------------|------------|--------------|
| BT3 | D9 / 509 | BT2 | D6 / 506 | B4X | D9 / 509 | B6W | D14 / 514 | B82 | D15Y / 515 |
| B8X | D16 / 516 | BR4S | XED14 / 572 | BR5S | XMD15 / 649 | BR7S | XMD21 / 521 | BR8 | RD16 / 541 |
| BR8S | XED16 / 563 | BR9S | XMD21 / 521 | BS5S | XMD15 / 649 | B3X | D9 / 509 | BT10 | D21 / 502 |
| TT10 | W14 / 569 | BT4 | D9 / 509 | BT6 | D14 / 514 | BT8 | D16 / 516 | BT9 | D21 / 502 |
| BTS8 | D16 / 516 | BZ8 | UD16 / 555 | F11 | 25 / 525 | TT15 | W89D / 589 | TT8 | W14 / 569 |
| A6S | XEJ8 / 557 | BT15 | D89D / 543 | BS9S | XMD21 / 521 | AGR8S | XEN14 / 614 | TT4 | W10 / 510 |
| AER3S | RML12 / 612 | AER4S | REL88B / 610 | A8S | XEJ12 / 567 | AER72S | XML15Y / 633 | AG9 | N21 / 504 |
| B3W | D9 / 509 | AGR4S | XEN14 / 614 | AER3SA | XML12 / 603 | AL52 | H14Y / 91 | AR10S | XEJ12 / 567 |
| AR4S | XEJ8 / 557 | AR5S | XMJ14 / 588 | AS6S | XEJ8 / 557 | B2W | D6 / 506 | AGR3S | XMN12 / 616 |
| AR6S | XEJ8 / 557 | AS7S | XMJ17 / 517 | AVR3S | RML12 / 612 | AS5S | XMJ14 / 588 | ARL8S | REL88B / 610 |
| ARL6S | REL88B / 610 | ARL4S | REL88B / 610 | AR9S | XMJ20 / 573 | AR8S | XEJ12 / 567 | ARTS | XMJ17 / 517 |
| AS8S | XEJ12 / 567 | | | | | | | | |



CAUTION. DO NOT USE THIS CHART

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STITT To Champion

| STITT | Champion | STITT | Champion | STITT | Champion | STITT | Champion | STITT | Champion |
|------------|--------------|-------------|--------------|---------|--------------|----------|---------------|-----------|--------------|
| R817L | RB75N / 643 | R717 | RW78N / 631 | R807 | RM77N / 519 | R80L | RB75N / 643 | R817L | RB76N / 576 |
| R847 | RD15Y / 526 | R847 | RD16 / 541 | RE72 | RW83F / 559 | S2SGA105 | REW82P / 578 | RF407L | RV12YC / 406 |
| R717 | RW77N / 565 | R45 | RJ88P / 644 | R40L | RL15B / 535 | R407XLC | RC78PYP / 218 | R407L | RL15B / 535 |
| R2SGA40L | RL85G / 1224 | R107 | RW80N / 553 | E84 | RM79F / 571 | CPR887 | RGM86N / 586 | S2SGA40L | RHL79G / 551 |
| CPM807 | RTM77N / 547 | S8MEX5 | ED89D / 505 | CPM80 | RTM79 / 548 | CPM80L | RTB80N / 646 | SE722 | HW83F / 544 |
| 897 | D14N / 529 | CPM2SGA40XL | RTN79G / 540 | U827 | RD16 / 541 | SR827 | RHM83N / 583 | SR817L | RHB81N / 624 |
| SR807 | RHM77N / 596 | SR7172 | RHW78N / 635 | SR7172 | RHW77N / 577 | SR1375 | REW80N / 534 | S8275 | REM77N / 568 |
| SR1072 | RHW80N / 532 | S2SGA40L5 | REL88B / 610 | S865 | XED16 / 563 | S825 | XED14 / 572 | S825 | ED14 / 550 |
| S47XL5MC | XEN14 / 614 | S475MC | XEJ12 / 567 | S40L5MC | REL89G / 522 | S405MC | XEJ8 / 557 | S2SGA805 | REM84P / 503 |
| S2SGA80 | RHM85G / 585 | S2SGA40XL | RHN79G / 575 | SR137 | RHW79N / 579 | 82 | D18Y / 549 | 912 | W89D / 589 |
| 847 | M82N / 566 | 827 | M82N / 566 | 727 | W77N / 539 | 719 | W18 / 518 | 197 | W20 / 520 |
| 117 | W80N / 580 | 107 | W80N / 580 | 86 | D23 / 523 | 137BSP | W16Y / 561 | 82 | D78Y / 625 |
| 15E | 25 / 525 | 82 | D16J / 564 | 82 | D16 / 516 | 82 | D15Y / 515 | 82 | D14 / 514 |
| 82 | D9 / 509 | 82 | D6 / 506 | 79 | W18 / 518 | 19 | C97B / 513 | 13 | W10 / 510 |
| 10 | W10 / 510 | 86 | D21 / 502 | S2SGA10 | RW82P / 582 | CPM10 | RTW80N / 638 | CPE72 | RGC80F / 623 |
| CP717 | RGC77N / 552 | 8MEX | D89D / 543 | 8MEX | K97F / 597 | 8ME | D89D / 543 | 8ME | K97F / 597 |
| 817L | B86N / 542 | 407XL | RC9YC4 / 430 | 407L | RJ6C / 102 | 137BSP | W85N / 545 | S2SGA40XL | RN79G / 530 |
| 147B | W14 / 569 | 17EX | C97B / 513 | 17EX | C95F / 595 | 17EX | W95D / 562 | 17EX | W89D / 589 |
| 17E | C95F / 595 | 17E | W95D / 562 | 17E | W89D / 589 | 17E | C97B / 513 | 15EX | 25 / 525 |
| CPM2SGA40L | RTL85G / 556 | S2SGA80 | RM85G / 591 | | | | | | |

Military Shielded Resistor Types

| Heat Range | Thread Size | Thread Reach | Champion | Ordnance Number | AC | Autolite (old) | Autolite (new) | Blue Crown |
|------------|-------------|--------------|-------------------|-----------------|------------|----------------|----------------|------------|
| HOT | 18 mm | 1/2" | 563 / XED16 | --- | --- | BR10S | 2225 | SR8E13B |
| | | | 563 / XED16 | MS35911-1 | SR86E | BR8S | 2225 | SR8E15B |
| COLD | 18 mm | 1/2" | 572 / XED14 | MS35911-2 | SR84E | BR4S | 2222 | SR8E20 |
| | | | 521 / XMD21* | MS51009-1 | WR87 | BR9S | 2226 | SR8E13 |
| HOT | 18 mm | 1/2" | 521 / XMD21* | MS51009-2 | WR86 | BR7S | 2224 | SR8E13 |
| | | | 649 / XMD15* | MS51009-3 | WR84 | BR5S | 2223 | SR8E20B |
| COLD | 14 mm | 3/8" | 567 / XEJ12 | MS35908-1 | SR47E | AR8S, AR10S | 2246 | SR6F14 |
| | | | 557 / XEJ8 | --- | SR46E | AR6S | 2244 | SR6F17 |
| HOT | 14 mm | 3/8" | 557 / XEJ8 | MS35908-2 | SR44E | AR4S | 2242 | SR6F20C |
| | | | 557 / XEJ8 | 7359620 | SR43E | --- | 2242 | --- |
| COLD | 14 mm | 7/16" | XEH8** 557 / XEJ8 | MS35909-3 | SR47LE | ARL8S | 2325 | --- |
| | | | XEH8** 557 / XEJ8 | 8331648 | SR45LE | ARL6S | 2325 | SR7F14 |
| HOT | 14 mm | 3/8" | XEH8** 557 / XEJ8 | --- | SR43LE | ARL4S | 2325 | SR7F17 |
| | | | 573 / XMJ20* | MS35909-3 | WR47 | AR9S | 2247 | SR6F13 |
| COLD | 14 mm | 3/8" | 517 / XMJ17* | MS35909-2 | WR46 | AR7S | 2245 | SR6F15 |
| | | | 588 / XMJ14* | MS35909-1 | WR44, WR43 | AR5S | 2243 | SR6F20 |
| HOT | 14 mm | 1/2" | 610 / REL88B | --- | WR42 | AER4S | 2344 | --- |
| | | | 633 / XML15Y* | MS35909-6 | --- | AER72S | 2384 | --- |
| COLD | 14 mm | 1/2" | 603 / XML12* | MS35909-4 | WR44LS | AER3SA | 2384 | SR8F23B |
| | | | 612 / RML12* | 8668752 | WR43L | AER3SA | 2344 | --- |
| HOT | 14 mm | 3/4" | 614 / XEN14 | --- | WR43LR | AGR8S | --- | --- |
| | | | 614 / XEN14 | --- | SR47XL | AGR4S | --- | --- |
| COLD | 14 mm | 3/4" | 616 / XMN12* | 10863369 | --- | AGR3S | 2304 | --- |

* Requires special underwater connector.

** Discontinued plug, may use 557 / XEJ8 as a replacement

Spark Plug Installation

The recommended procedure is to remove the old spark plug and install the new spark plug by hand until it contacts the gasket seat. A new gasket should always be used. By removing and installing the spark plug by hand, it will be easier to detect any problems in the thread area such as binding or looseness. Should problems be detected, refer to the NOTE section for recommended course of action. Once all spark plugs have been installed by hand, return to the first spark plug installed and tighten to correct torque. This will allow the spark plug temperature to stabilize with the cylinder head temperatures. (Figure 1)

| Torque Recommendations | | | |
|------------------------|------------------------|-----------------|----------------|
| SERVICE GASKET | SPARK PLUG THREAD SIZE | TORQUE WRENCH | |
| | | CAST IRON HEADS | ALUMINUM HEADS |
| | Gasket Type | | |
| N678 | 14mm | 26-30 lb-ft | 18-22 lb-ft |
| A678 | 18mm | 32-38 lb-ft | 28-34 lb-ft |
| A478 | 7/8" | 50-55 lb-ft | — |
| — | 1-1/8" | 140-150 lb-ft | — |
| | Tapered Seat | | |
| — | 14mm | 7-15 lb-ft | 7-15 lb-ft |
| — | 18mm | 15-20 lb-ft | 15-20 lb-ft |

FIGURE 1

These torque values are for spark plugs installed in clean, dry threads and should be followed unless otherwise specified by the engine manufacturer. Excessive torque (over-torque) can lead to thread body stretch.

NOTE. After the normal service life of a spark plug, one or more of the spark plugs may be a little difficult to remove. Penetrating oil may be used if the spark plug appears to be dangerously tight. Apply steady pressure with a spark plug wrench until the spark plug loosens. Once loosened, if the spark plug is still turning hard, apply more penetrating oil, then tighten and loosen the spark plug repeatedly until the spark plug rotates easily. Before removing the spark plug, blow any dirt from the port area that might be present to prevent it from falling into the combustion chamber.

If the spark plug appeared to be overly tight when removed by hand, it may be due to deposits collecting in the threaded area of the cylinder head. The threads should be cleaned with the proper size and length chaser tool, and the seat wiped clean to assure good seat contact before installing the new spark plug.

Recommended practice would be to clean spark plug port threads and seating area every six months or every spark plug change, whichever is longer.

This may lead to shell seal leakage and poor heat transfer out of the spark plug, causing premature failure. The leakage can also result in ejection of the insulator from the shell. (Figure 2)

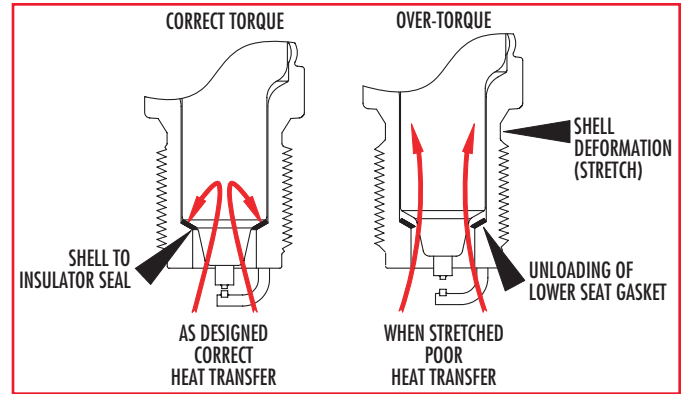


FIGURE 2

If the threads are lubricated, the torque value should be reduced 20%. Apply a very small amount only on the second thread from the firing end of the spark plug. No lubricant must be allowed on the firing end or anywhere on the upper area of the plug.

Spark plug cleanliness is essential for maximum spark plug life. All parts of the ignition system must be kept clean from dirt, oil, grease and paint. Any and all of these contaminants on the inside or outside of leads, boots and connections, or anywhere on the spark plug can cause misfire and/or shortened spark plug life.

If chasing the threads does not allow hand installation of the spark plug, further investigation is necessary. At this point it might be necessary to use a tap to verify correct thread size. Before using a tap, it is critical to verify the correct size and pitch. This tap should only be used if the thread chaser does not permit installation of the spark plug by hand. Frequent use can result in unnecessary metal removal, causing the spark plug to be loose in the port. When using the thread chaser tool or tap, a heavy grease should be applied to the flutes to catch debris removed from the thread area.

If looseness is obvious, necessary steps must be taken to avoid serious problems. A loose fitting spark plug could result in torching of the thread area and/or pre-ignition if the heat transfer from the spark plug to the cylinder head is insufficient to cool the spark plug.

Corona vs. Flashover

Under certain atmospheric conditions, a pale bluish glow may be observed around a conductor carrying high voltage. You may have noticed that while driving at night, high-tension cross-country power lines may have an eerie blue glow about them. You may also notice this glow on spark plug insulators if the engine is running in a darkened room. This glow is called corona, and it will not affect ignition output or engine performance. Corona does not indicate a faulty ignition system or spark plug.



Corona

Even if you never see corona it may leave a telltale, non-conductive, yellow or brown stain around the insulator near the top of the shell. This stain should not be interpreted as leakage between the shell and insulator. This stain is caused by the corona discharge attracting airborne dirt to the insulator surface. Corona is not to be confused with flashover, a situation where the voltage actually tracks down the outside of the insulator, resulting in misfire. Corona is harmless and is characterized by a hissing sound, much different than the familiar “snap” caused by flashover.



Corona stain

Flashover occurs because the high tension lead at the spark plug terminal is not adequately sealed and the voltage requirement at the spark plugs firing end is higher than the voltage requirement to arc externally.

This external arcing is flashover. Typical causes of flashover are poor or damaged ignition boots, dirty cap ends, high moisture/humidity, damaged spark plug insulators or worn firing end gaps.



Flashover



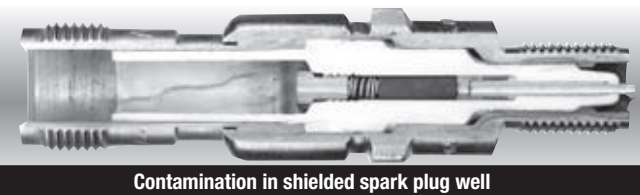
Cap end flashover track marks

Flashover is identified on the spark plug ceramic by blackened track marks where the spark has occurred externally and tracked down the surface of the insulator.

Champion provides cap end shapes to suit the needs of the application. Champion’s insulator, combined with good plug boots, will prevent harmful flashover. Corona, however, can occur under any condition where high voltage is present.

Connector Well Flashover / Contamination

Shielded spark plugs have a unique set of challenges. One is contamination in the lead connector well. Contamination in this area of the plug often leads to the creation of a conductive path and eventually misfire due to flashover as seen in the quarter sectioned shielded spark plug photograph below.



Contamination in shielded spark plug well

Connector well contamination may be caused by material falling into the well, faulty or loose connections, moisture or contaminated leads. The lead connection and spark plug well should be carefully inspected for contamination and condition before assembly.

The terminal lead connector (stinger) must be free of contamination internally and externally. The lead connectors are typically ceramic and are designed to last until broken. However, in some cases the inner bore of the stinger can become contaminated. This condition is difficult to detect and can result in a misfire condition. The cause of the contamination may be oil or dirt that becomes lodged between the connector lead and inner bore of the stinger. The result is the formation of a conductive path that causes the spark to arc to ground internal to the stinger with little or no evidence noticeable upon removing the ignition lead from the spark plug well.

This condition is easily detected once the stinger is removed from the ignition lead.

Inspection of the lead and bore of the stinger

may reveal arc etching of the ceramic and a corresponding mark on the ignition lead. If these marks are found the stinger/lead assembly must be replaced.



Dielectrically failed lead connector/stinger

On the other hand, flashover external to the stinger whether it is from contamination, improper lead attachment or excessive voltages due to a worn out spark plug is often more easily identifiable as can be seen on the stinger in the photograph above. When arcing is found on the outside of the stinger, there is a good chance that the spark plug well also has been etched by the arc. If this is the case, both the stinger and the spark plug need to be replaced.

As greater demands are applied at the spark gap, the required voltage increases. This increased voltage will follow the path of least resistance. Contamination in the spark plug well or stinger assembly will contribute to the creation of alternate paths. Often-times replacement of the spark plug will eliminate the misfire. In the case of a contaminated well it will solve the problem. In the case of a contaminated stinger assembly a new plug with a tight gap and sharp edges will reduce the voltage requirement and provide a temporary solution. If plug life appears to steadily decrease the stinger assembly should be carefully inspected for contamination.

The Spark Plug's Relation to the Ignition System

The ignition system must be capable of supplying the voltage necessary to initiate a spark between the spark plug electrodes. In practice this means there must be considerable "ignition reserve" to compensate for normal wear of the spark plugs and components of the ignition system.

Ignition reserve is the difference between voltage available (V_a) from the ignition system, and voltage required (V_r) by the spark plug. If at any time V_r equals V_a , misfire will likely occur. (Figure 3)

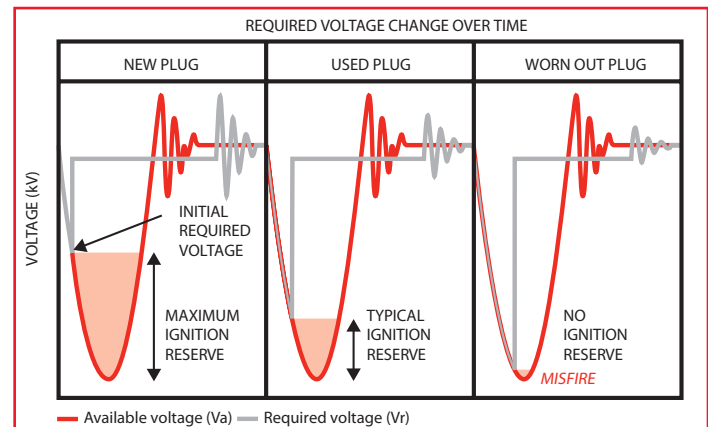


FIGURE 3

Factors Affecting Voltage Requirements (V_r)

COMPRESSION PRESSURE

Depending on the type of fuel, moisture content and voltage source, required voltage increases as pressures increase.

IGNITION TIMING

At TDC (top dead center), voltage requirements will be greatest due to high compression pressures. An advance in timing lowers V_r as pressure decreases. Since the advance creates higher flame temperature, V_r is further reduced by the hotter electrodes. Retarding timing past TDC also decreases V_r as pressures decrease, but appreciable losses of power and temperature result.

SPEED AND LOAD

High speed and load generally produces the highest V_r due to increased cylinder pressures despite the natural increase in electrode temperatures.

ELECTRODE TEMPERATURE

Voltage requirements will decrease as electrode temperatures increase and increase as temperatures decrease.

ELECTRODE CONDITION

Sharp, new electrodes concentrate the spark arcing by offering an easier path for current flow. As new plugs with well-defined electrodes wear, an increase in required voltage results.

ELECTRODE MATERIAL

Commonly used electrode materials are platinum, iridium, gold-palladium and nickel, in descending voltage equipment.

GAP SIZE

With other influencing factors being equal, required voltages will increase as gap size increases.

Multi-strike ignition: While multi-strike ignition can be beneficial for igniting the air-fuel charge, particularly in lean burn applications, it also accelerates gap wear. To minimize wear, use the fewest number of ignition strikes necessary to achieve complete combustion.

COIL POLARITY

Polarity is a design feature of each ignition system. Current flow from center electrode to ground electrode is referred to as "negative polarity." "Positive Polarity" is current flow from the ground electrode to center electrode. Most all manufacturers recommend negative polarity for best spark plug life and performance, since reversed or positive polarity will increase required voltages and substantially reduce ignition system reserve.

FUEL/AIR RATIO

With other factors being equal, voltage requirements will be lowest at the ideal stoichiometric fuel/air ratio. Voltage requirements increase with leaner mixtures because air is a poor conductor.

TURBOCHARGING

Turbo charging increases the voltage requirement because of higher cylinder pressures.



Factors Affecting Voltage Requirements (Vr) Continued

| | | | | |
|----------------|-----------------------|-----------------------|--------------------|-----------------|
| LOW VOLTAGE | LOW | COMPRESSION PRESSURE | HIGH | HIGH VOLTAGE |
| | ADVANCE AWAY FROM TDC | IGNITION TIMING | RETARD TOWARDS TDC | |
| | LOW | SPEED AND LOAD | HIGH | |
| | HOT | ELECTRODE TEMPERATURE | COLD | |
| | WELL DEFINED | ELECTRODE CONDITION | WORN | |
| | NICKEL | ELECTRODE MATERIAL | PLATINUM | |
| | NARROW | GAP SIZE | WIDE | |
| | NEGATIVE | COIL POLARITY | POSITIVE | |
| | STOICHIOMETRIC | FUEL/AIR RATIO | LEAN | |
| | LOW | TURBOCHARGING | HIGH | |

FIGURE 4

Factors Affecting Spark Plug Temperatures

SPEED AND LOAD

As engine power requirements increase with speed and load, spark plug insulator temperatures increase proportionately. Temperatures at constant speed and load will remain relatively stable.

IGNITION TIMING

Ignition timing has one of the greatest effects on insulator temperature. Advances in timing subjects the insulator, as well as all other parts of the combustion chamber, to longer periods of flame exposure. Recommended spark plug heat ranges, therefore, must consider manufacturer's specified timing and fuel/air ratios. Any advances over specifications will increase insulator temperatures.

CYLINDER HEAD TEMPERATURES

Insulator temperatures will vary almost directly with cylinder head temperatures. A fifty degree increase in coolant temperature will increase the insulator temperature approximately fifty degrees-a negligible amount. In cases of localized cooling system blockages (liquid or air), it is possible to create severe overheating.

Extremes in ambient operating temperatures can be detrimental to cylinder head temperatures by creating a detonation or pre-ignition environment.

DETONATION

Detonation produces severe pressures and temperatures which may affect not only spark plug temperatures but also may impose severe stress on insulators, electrodes, pistons, valves, bearings and other engine components.

PRE-IGNITION

Pre-ignition will generally cause a very rapid and severe temperature rise in the spark plugs and other combustion chamber components.

INSTALLATION TORQUE

Over-torquing or under-torquing upon installation can impair heat transfer out of the spark plug, causing the spark plug to leak and run hotter, decreasing its life.

| | | | | |
|------|----------------|-------------------------------------|-------------------|-----|
| COLD | LOW | ENGINE SPEED | HIGH | HOT |
| | LOW | ENGINE LOAD | HIGH | |
| | RETARDED | IGNITION TIMING | ADVANCED | |
| | LOW | CYLINDER HEAD & COOLANT TEMPERATURE | HIGH | |
| | NONE | DETONATION | SEVERE | |
| | NONE | PRE-IGNITION | SEVERE | |
| | CORRECT TORQUE | INSTALLATION TORQUE | OVER/UNDER-TORQUE | |

FIGURE 5

Heat Range Facts

The term “Heat range” refers to a spark plug’s thermal characteristics: more specifically, to its ability to dissipate combustion heat from its firing end to the cylinder head and cooling medium.

A spark plug must maintain an even flow of heat from its firing end to avoid becoming a source of pre-ignition. Yet it also must operate hot enough to burn off conductive deposits that can short-circuit the high voltage and result in misfire.

For any specific application, it is the range of temperatures from low speed and low load to high speed and heavy load that determines the heat range requirement of a spark plug. From a design standpoint, the range of operating temperatures is largely determined by the length of the insulator nose. The longer the insulator nose, the hotter the spark plug. (Figure 6)

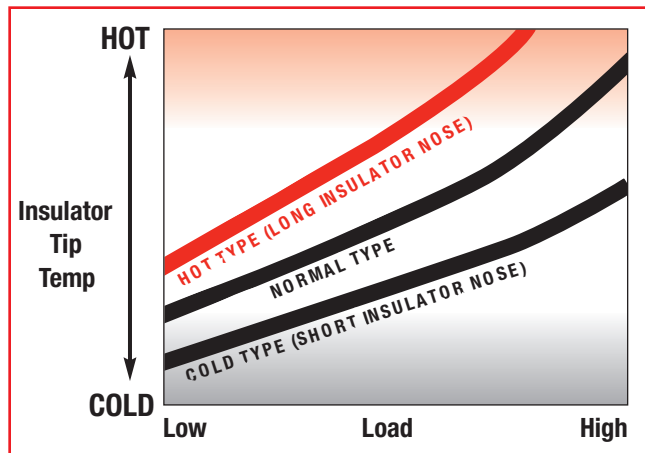


FIGURE 6

Thermocouple plugs designed by Champion are used to monitor firing tip temperatures. For best service at all load conditions, the optimum range of temperatures a plug should operate within is between 700°F and 1200°F (400°C to 650°C). The final selection of a plug for an engine is made on this basis.

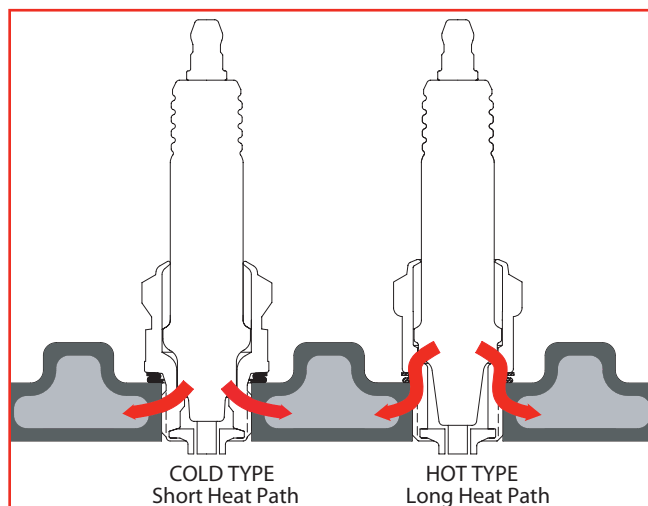


FIGURE 7

Usually each size and design of a spark plug is manufactured in various heat ranges as illustrated. They vary from a “colder” type, which operates on the lower end of the temperature scale, to a “hotter” type, which operates on the higher end of the same scale in the same engine under identical conditions.

Spark plugs with short insulator firing tips are called “cold” designs because they dissipate heat rapidly. They vary from a “colder” type, which operates on the higher end of the temperature scale, to a “hotter” type, which operates on the higher end of the same scale in the same engine under identical conditions. (figure 7)

It is the temperature at which the plug operates that determines whether it is a hot or cold type, and not necessarily the design.

TYPES OF GROUND ELECTRODE

There are several ground electrode configurations. Those that project furthest from the spark plug into the combustion chamber will have the longest heat transfer path. Four-prong ground electrodes run colder than J-gap ground electrodes due to the shorter heat transfer path. However ground electrode projection may be beneficial for certain applications. (Figure 8)

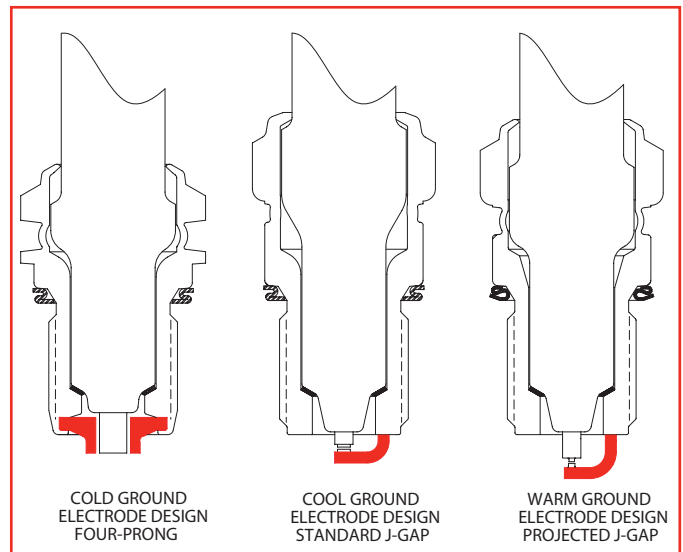


FIGURE 8

COPPER CORED ELECTRODES

The use of copper cored electrodes improves heat transfer, resulting in longer gap life. Copper is used in most center electrodes and in J-gap ground electrodes.

SEAT GASKET TEMPERATURE

Seat gasket thermocouple spark plugs can be used as an indicator of heat transfer out of the spark plug. Spark plug seat gaskets are intended to run no hotter than 400°F. If a seat gasket thermocouple reads above this, spark plugs and engine performance may be adversely affected.



Effect of Fuel on Spark Plug Selection

While most engines are designed for a specific fuel and placed into service with specifications tailored to that fuel, some operators are making conversion to different fuels or multi-fuel operation.

Spark plug selection of heat range and gap spacing should follow manufacturers' guidelines. When converting to alternative fuels see the spark plug selection chart. (figure 9)

| FUEL TYPE | APPROX. OPTIMUM ENGINE COMP. RATIO | AVERAGE OCTANE RES. NO. | MANIFOLD HEAT REQUIRED | SPARK PLUG HEAT RANGE | SPARK PLUG GAP SPACING | IGNITION VOLTAGE REQUIRED |
|-----------------------|------------------------------------|-------------------------|------------------------|-----------------------|------------------------|---------------------------|
| Natural Gas (methane) | 14:1 (plus) | 115-120 | DECREASE | COLD | CLOSE | HIGH |
| LP-Gas | 9:1 - 12:1 | 95-105 | ↑ ↓ | ↑ ↓ | ↑ ↓ | ↑ ↓ |
| Gasoline | 8:1 - 11:1 | 85-100 | | | | |
| Kerosene | 5:1 - 7:1 | 35-50 | ↑ ↓ | ↑ ↓ | ↑ ↓ | ↑ ↓ |
| Distillate | 4:1 | 25-30 | | | | |
| | | | INCREASE | HOT | OPEN | LOW |

FIGURE 9


Low energy fuels often contain contaminants which can decrease spark plug life due to deposit build-up. (Figure 10)

| LOW ENERGY | FUEL SOURCE | TYPICAL COMPOSITION |
|--------------|---|--|
| Landfill gas | Natural anaerobic decomposition of organic landfill waste. | 55% methane and 45% CO ₂ with small amounts of oxygen and nitrogen, and contaminants such as sulfur compounds, halides, acids and solids. |
| Digester gas | Natural anaerobic decomposition of organic waste from sewage, animal waste or waste from vegetable and alcohol mills. | 65% methane and 35% CO ₂ with small amounts of oxygen and nitrogen, and contaminants as above. |
| Blended fuel | Landfill or digester gas enriched with natural gas. | Depends on fuel concentration. |

FIGURE 10


Shielded Extensions, Non-Shielded Extensions, Gaskets and Terminal Nut

Spark Plug Shielded Extensions



| EXTENSIONS | | |
|----------------|--------|----------|
| 5/8"-20 THREAD | | |
| LENGTH | PART# | REORDER# |
| 4" | SE-4B | 92966 |
| 6" | SE-6B | 94462 |
| 8" | SE-8B | 92821 |
| 10" | SE-10B | 11500 |


| 3/4"-20 THREAD | | |
|----------------|--------|----------|
| LENGTH | PART# | REORDER# |
| 4" | SE-4D | 11496 |
| 6" | SE-6D | 93538 |
| 8" | SE-8D | 93717 |
| 10" | SE-10D | 11503 |



| TEFLON IGNITION RODS | | |
|----------------------|--------|----------|
| LENGTH | PART# | REORDER# |
| 4" | SE-4T | 11497 |
| 6" | SE-6T | 11504 |
| 8" | SE-8T | 11505 |
| 10" | SE-10T | 11506 |




| TERMINAL NUT | | |
|--------------|----------|--|
| PART# | REORDER# | |
| BN9A | 11276 | |




| GASKETS | | |
|---------|-------|----------|
| LENGTH | PART# | REORDER# |
| 14MM | N678 | 91954 |
| 18MM | A678 | 91591 |
| 7/8MM | A478 | 94349 |

Spark Plug Non-Shielded Extensions



| TEFLON DIELECTRIC SHIELDS | | |
|---------------------------|-------|----------|
| LENGTH | PART# | REORDER# |
| 3" | DS3 | 13601 |
| 4" | DS4 | 13602 |
| 5" | DS5 | 13604 |
| 6" | DS6 | 13607 |
| 8" | DS8 | 13609 |
| 10" | DS10 | 13610 |
| 12" | DS12 | 13611 |
| 14" | DS14 | 13612 |
| 16" | DS16 | 13613 |
| 18" | DS18 | 13614 |
| 20" | DS20 | 13615 |
| 24" | DS24 | 13617 |

#50KV RESISTANCE



| ALUMINUM EXTENSION RODS | | | |
|-------------------------|--------|----------|--|
| LENGTH | PART# | REORDER# | |
| 3" | SCE3 | 13587 | |
| 4" | SCE4 | 13588 | |
| 5" | SCE5 | 13589 | |
| 6" | SCE6 | 13590 | |
| 8" | SCE8 | 13591 | |
| 10" | SCE10 | 13592 | |
| 12" | SCE12 | 13594 | |
| 14" | SCE14 | 13595 | |
| 16" | SCE16 | 13596 | |
| 18" | SCE18 | 13597 | |
| 20" | SCE20 | 13599 | |
| 24" | SCE 24 | 13600 | |

#8-32 INTERNAL THREAD

Integral Coil Features



Integral coils must be installed at a maximum of 5 lb-ft after the spark plug has been installed to follow coil manufacturer instructions for tightening. Over-torque can cause damage to coil and/or plug, resulting in possible engine damage. The "T" type and "G" type spark plugs

described below are designed to be used in conjunction with ignition systems utilizing an integral (transformer) coil. These plugs along with the use of integral coils have been approved by Canadian Standards Association for Class 1, Group D, Division 2 hazardous-location service.



"T" TYPE SPARK PLUGS

A "T" type spark plug is shown in Figure 11. Typical plugs are the RTM82WPCC, RTM77N, RTM78N, RTB78N, RTB80N, RTL85G, RTN79G, TJ83, RTW80N and RTW83F. These coils require that the shell turnover has a 13/16" thread to accommodate the female threaded coil.

FIGURE 11



"G" TYPE SPARK PLUG

A "G" type spark plug is shown in Figure 12. Typical plugs are the RGC80N, RGC80F and RGC77N in the 7/8" line and the RGM86N in the 18mm line. These utilize a 1" upper female threaded shell.

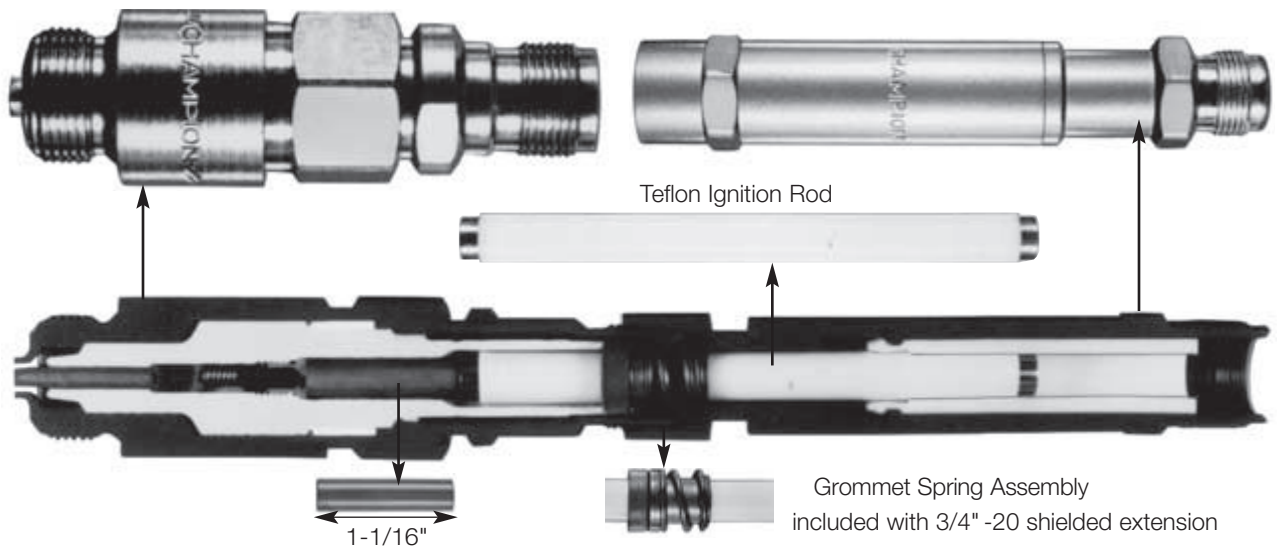
FIGURE 12



Shielded Extension Features and Installation

Typical Shielded Spark Plug

Shielded Extension



NOTE: This extension assembly can only be used with spark plug with a 1" well depth such as RHL79G, RHL89G, RHN79G, RHM77N, RHM83N, RHM85G, RHW79N, RHB81N. The following have a 2" well and require a brass rod adapter: RHM78PP, RHM78WPCC, RHW77N, RHW78N, RHW80N, HW83F.

- Install spark plug and tighten to recommended torque.
- Take center rod and install spring assembly and rubber grommet with at least 1-1/2" of center rod extending from bottom.
- Insert center rod with spring assembly and grommet into shielded spark plug.

- Install shielded extension over the center rod pushing the grommet and spring assembly down to the shell. This will ensure the center rod is in contact with the terminal of the spark plug.
- Tighten shielded extension to a maximum of 5 lb-ft.



An effective way to diagnose an engine's operating conditions is to examine the used spark plugs for abnormal conditions. If all systems of a given cylinder are in proper working condition, the recommended spark plug will take on deposit, gap wear and insulator coloring characteristics which must be considered normal. By indexing each plug to its respective cylinder and location during removal, the technician can later scrutinize the

plug under magnification to determine the possibility of engine abnormalities.

This procedure can be very useful if conducted as part of regular maintenance inspections. The following series of photographs and explanations may serve as a guide to spark plug and engine analysis; conditions will vary from engine to engine.

NORMAL

Appearance. Slight even wear on electrodes, very light deposits, a coloring of brown or grayish tan. Very clean, deposit-free firing ends are common on LP and natural gas applications.

Indication. Correct spark plug for application; cylinder from which removed is "healthy."

WORN OUT

Appearance. Very pronounced wear on electrodes, widened gap space.

Indication. Worn condition creates high voltage requirement and stresses the ignition system. Replace with equivalent heat range, perform routine ignition maintenance.

BRIGED GAP

Appearance. A deposit lodged between the electrodes which "short-circuits" the ignition voltage.

Indication. Flaking off of combustion chamber deposits. May happen after long periods of constant speed and load operation followed by cyclic accelerations.

OIL ASH DEPOSITS

Appearance. Light colored (generally grayish) crusty build-up on spark plug firing end. May vary in density from very soft and flaky to extremely hard and rock-like.

Indication. Residual deposits from oil entering the combustion chamber in small amounts and being burned. These deposits, depending on oil additives, may be non-conductive and harmless. However, sufficient quantities of these deposits may build to mask the entire firing end and affect initiation of combustion. Should the deposits be conductive, the potential is great for core nose tracking and misfire.

LANDFILL GAS DEPOSITS

Appearance. Light colored (generally white) crusty build-up on spark plug firing end. May vary in density from very soft and flaky to extremely hard and rock-like.

Indication. Residual deposit from an engine operated on gas from a landfill. This type of fuel is often referred to as "dirty" gas, thus the naturally occurring deposits. These deposits may be non-conductive and harmless, but sufficient quantities may build to mask the entire firing end and interfere with the initiation of combustion. Should the deposits be conductive, the potential is great for core nose tracking and misfire.

DETONATION

Appearance. Electrodes or insulator fractured/physically broken as if by mechanical means.

Indication. Engine operated under abnormal combustion-detonation (uncontrolled burning or exploding of the fuel/air charge). Generally due to excessive temperature from over-heating, improper fuel/air ratios, over-advanced timing, cooling system blockages, insufficient engine tolerances, or improper balance of fuel mixture and timing.

PRE-IGNITION

Appearance. Overheated spark plug with electrodes and/or insulator melted.

Indication. Engine operated under abnormal combustion-pre-ignition (ignition prior to timed spark). Pre-ignition generally results from excessive temperatures created by "hot spots," possibly carbon, sharp valve edge, gasket protruding into the chamber, or improper heat range plug.

CORE NOSE TRACKING

Appearance. Ignition marks etched into the insulator core nose, or its deposits, that travel from the center electrode up the core nose to ground within the shell bore. These marks are often black in color.

Indication. Misfire may occur as the ignition spark has found an alternate path to ground as opposed to the desired path of arcing from center electrode to the ground electrode. Tracking can be caused by any of the following conditions: Conductive deposits on the insulator core nose, too wide a spark gap, too lean a fuel/air ratio, increased cylinder pressures at time of ignition.

CARBON FOULED

Appearance. Soft, black sooty deposits covering firing end.

Indication. Possible problem in the fuel delivery system – overly rich. Weak ignition system, flashover or secondary voltage, leak, or extremely low compression. More common to gasoline fueled auxiliary type engines.

TORCHED SEAT

Appearance. Cutting torch effect in the thread and seat area of the plug shell.

Indication. Plug was not seated properly, could not dissipate heat and allowed gases to blow by the threaded area.

Normal



Usure normale
Normal

Detonation



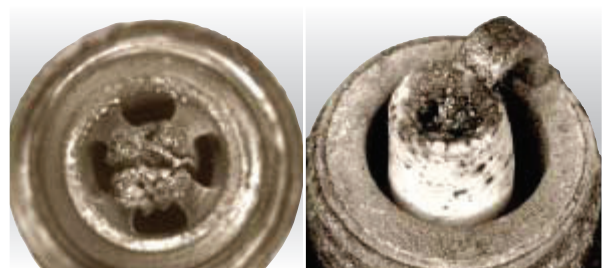
Détonation
Detonación

Worn Out



Usure totale
Desgastada

Pre-ignition



Préallumage
Encendido prematuro

Bridged Gap



Écartement obstrué
No existe separación entre puntas

Core Nose Tracking



Traces de cheminement de l'isolant
Formación de trayectorias en la nariz

Oil Ash Deposits



Dépôts résiduels d'huile
Depósitos de cenizas aceitosas

Landfill Gas Deposits



Dépôts résiduels de gas d'enfouissement
Depósitos de gas de vertedero

Carbon Fouled



Calaminage
Cubiertas de carbón

Torched Seat



Siège brûlé
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