



# U-GROOVE HEADER PLUGS

## ACCEL'S U-GROOVE DESIGN PUTS MORE FIRE IN THE HOLE, SO YOU GET MORE POWER TO THE WHEELS

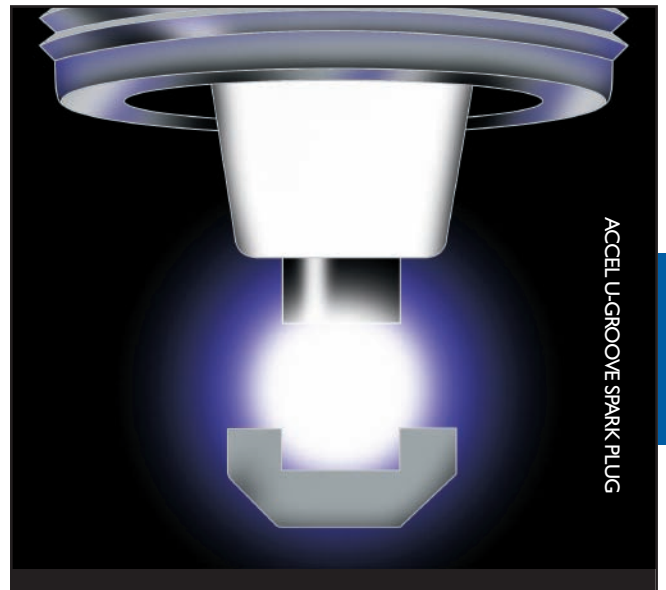
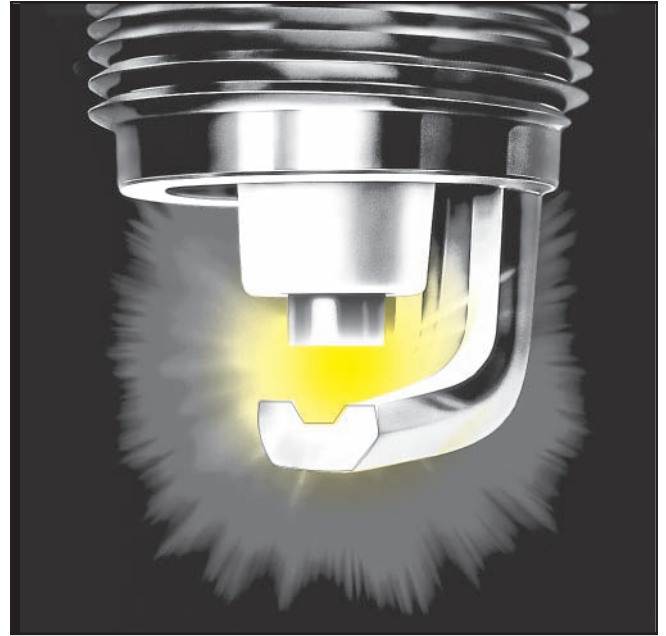
One of the hottest features of ACCEL Spark Plugs is the unique U-groove ground electrode. This specially designed electrode was developed to meet the demand for improved ignitability and increased fuel combustion. Simply stated ... Higher Performance.

### IMPROVED IGNITABILITY

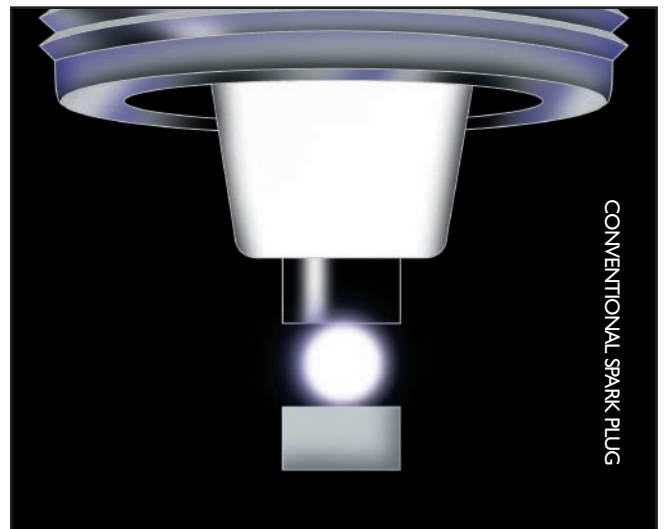
As illustrated to the left, the U-groove of the ground electrode results in less flame dissipation. It gives the flame a groove to grow in, creating a larger flame front for a more complete combustion even in the case of lean air-fuel mixture. Effectively, it produces greater firing energy. On the other hand, conventional plugs squash the flame. This is called "quenching effect" and leads to spark plug misfire and rough idle. This has a negative effect on the spark. With the U-groove ground electrode firing can be greatly improved without increasing the spark gap.

### IMPROVED THROTTLE RESPONSE AND BETTER FUEL EFFICIENCY

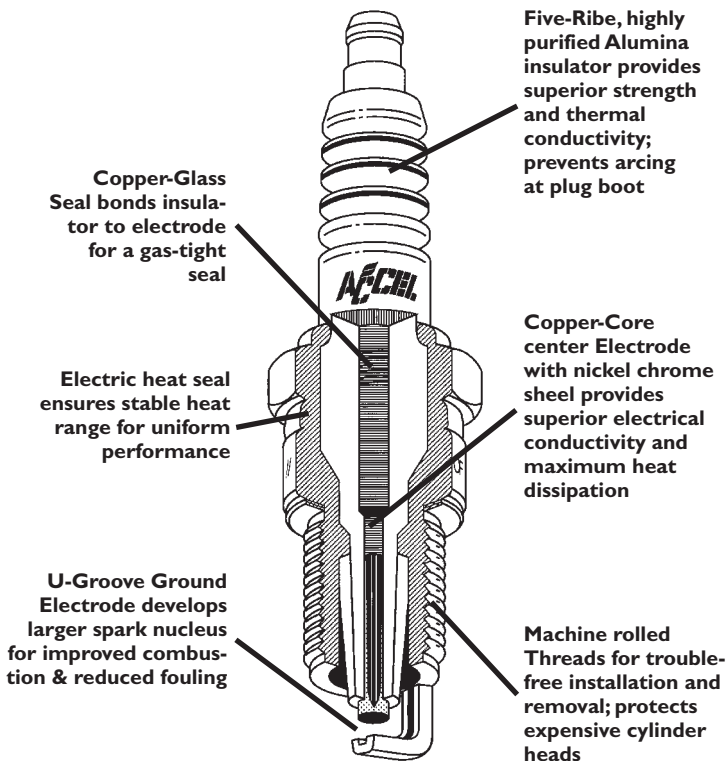
ACCEL's U-groove ground electrode produces a larger spark nucleus which stimulates faster combustion, producing more power for higher RPM's of longer duration. The end result is an increase in performance with improved throttle response and due to a more complete burn, greater fuel efficiency and reduced emissions.



ACCEL U-GROOVE SPARK PLUG



CONVENTIONAL SPARK PLUG

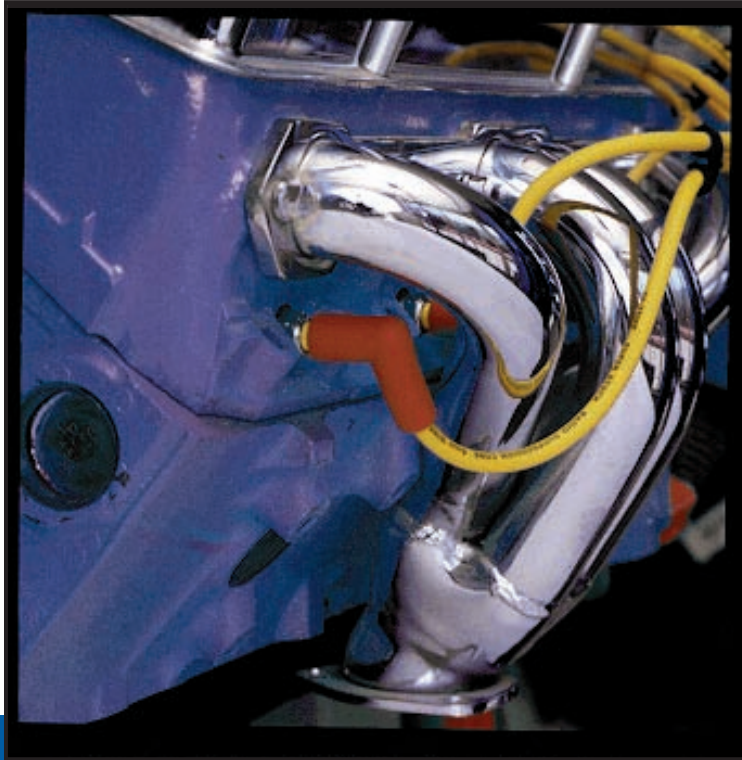


# U-GROOVE SPARK PLUGS



## ACCEL'S PATENTED RACE PROVEN U-GROOVE™ SPARK PLUGS IN A "SHORTY" CONFIGURATION

The overall length has been reduced 1/4" th 3/8" (depending on the specific spark plug) to gain critical air gap space between the spark plug boot and the exhaust manifold or header tube. This helps eliminate burning the spark plug boot or dimpling the header tube. The shorter spark plug length also can make it easier to install and remove the spark plugs in certain applications where there is not a lot of room to fit a socket or move a wrench around.



NOW AVAILABLE IN THE HIGHLY ANTICIPATED 3/4" REACH 5/8" HEX GASKETED CONFIGURATION, IN TWO HEAT RANGES, FOR USE IN MOST AFTERMARKET ALUMINUM HEADS.



Champion RC12, RC13 & RC14 Heat Ranges . . . . .0416S  
Champion RC8, RC9, RC10 Heat Ranges . . . . .0414S



Helps eliminate burning spark plug boots!

## SPARK PLUG INDEXER

Designed for both flat and taper seat 14mm spark plugs, this indexer is made from billet aluminum with a gold anodized finish for marking the position of the ground electrode. The indexer is knurled for hand held use or can be secured in a vise on the machined flats.

**Spark Plug Indexer** ..... I005

I005



## INDEX WASHER KITS

Soft copper ACCEL spark plug washers allow racers to "index" or adjust spark plug ground electrode position for optimum flame front generation or maximum plug-to-piston clearance.

**30 Assorted Washers - 14mm tapered seat with 5/8" Hex** ..... I001

**30 Assorted Washers - 14mm flat seat** ..... I002

I001



## FORD HALF-THREAD/FULL-THREAD EXPLANATION

There are certain Ford vehicles where the original equipment spark plugs have what is known as a HALF-THREAD shell design. These plugs are 3/4" in body reach but are only threaded half way (see Fig. A). The purpose of this design is to allow the spark plugs to be automatically installed at the time of engine assembly at the factory. These half-threaded spark plugs are duplicates of Full-Thread designed spark plugs. They are identical in every other respect from: heat range, reach, hex size and insulator nose designs (see Fig. B). If you compare Figures A & B, you can see that both spark plug designs protrude the same distance into the combustion chamber. Therefore in applications that call for an Accel U-Groove 0504 plug, you may use an Accel U-Groove 0514. The same hold true if applications call for a Accel U-Groove 0506, you may use an Accel U-Groove 0516.

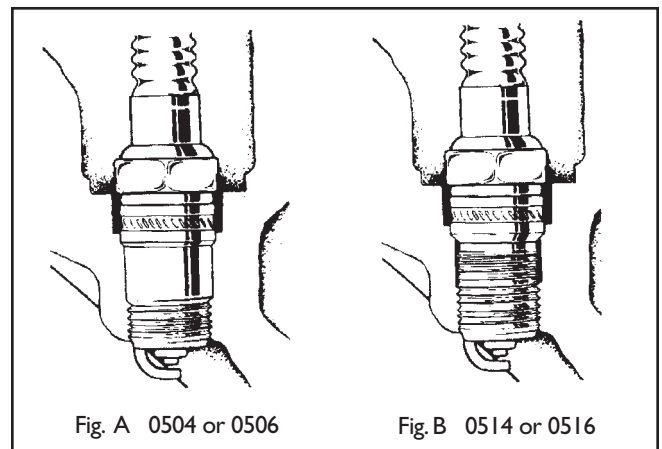


Fig. A 0504 or 0506

Fig. B 0514 or 0516