



IAE V2500 IGNITION LEAD



THE CHAMPION ADVANTAGE

Cost-effective solution for improved reliability and longer life. Champion Aerospace offers ignition system components for V2500 powered aircraft, featuring long-life igniters and increased airflow “air-cooled” ignition leads. Champion V2500 ignition components are cost effective solutions providing low cost maintainability while improving ignition system reliability.

- Improved lead designed for the V2500 engine environment
- Improved air-cooled design
- Extends ignition lead life
- Advanced aviation grade ceramics
- Incorporates higher temperature capable dielectric insulating materials for overall insulation resistance
- Piece part availability for on-site repair and maintainability
- Extended new parts warranty and core exchange



IGNITION PRODUCT REFERENCE CHART

PART #	ENGINE	ALTERNATE VENDOR PART #
CH53564-1*	V2500 Series	512090-1

*FAA-PMA Approved

DISTRIBUTION

- Distributor locations worldwide
- No minimum order requirement
- Parts readily available to meet short lead time and AOG requests
- Lower cost, no additional customs or duty fees





DESIGN FEATURES

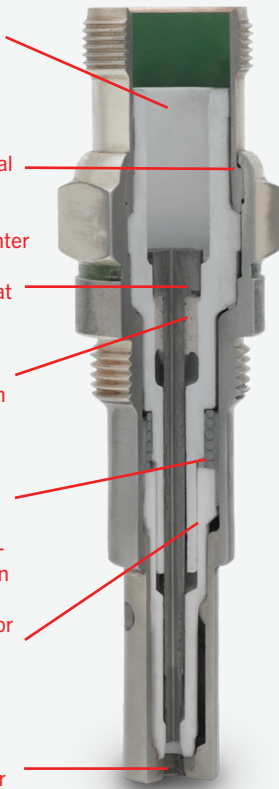
- Champion exclusive
- “Hot Lock” shell
- Seal assembly process
- Higher spark erosion resistant tungsten center and ground electrode
- Proprietary aviation grade

Champion

VS

Competitor

- Advanced aviation grade ceramic insulators for maximum thermal shock resistance
- No leak design hermetic mechanical shell seal
- Larger diameter center electrode promotes better firing end heat dissipation
- Tungsten contact button for maximum resistance to arcing and pitting
- Spring loaded lower insulator or better thermal shock resistance and expansion
- Telescoping insulator design yields lower terminal well temperatures
- Tungsten alloy ring ground electrode for optimum spark erosion



Commercial grade ceramic insulators

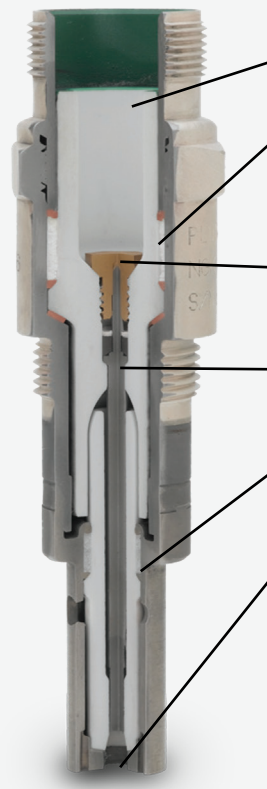
Non-hermetic mechanical shell seal permits low level gas leakage

Copper alloy contact susceptible to arcing and pitting

Smaller diameter lead bearing glass seal center electrode

Lower insulator rigid sillment retention method

Smaller hybrid iridium-platinum alloy ring ground electrode



1960
Champion receives first FAA-PMA igniter approval

1967
Champion designs AA72SA for P&W programs

1985
IAE selects competitive igniter program with design similar to AA72SA

1983
Champion proposes AA72SA igniter to IAE for V2500 program

2007
Champion CH31964 igniter enters airline service

2006
Champion CH31964 igniter receives FAA-PMA approval

1960

1970

1980

1990

2000

2010

2020