



Looking for something different?
Reach out to Champion Engineering:
SALES@CHAMPAERO.COM

IGNITING SPACE TRAVEL & HYPERSONIC FLIGHT

As the world leader in aerospace ignition system technology, Champion not only provides excellent, high quality ignition components for Piston and Turbine engine applications, but also ignition systems designed for high-powered rocket systems!

Many NASA programs, rocket development efforts, and space exploration companies, such as SpaceX, have used Champion products in their torch ignition applications.

Champion offers a **space-rated exciter (CH92111)**; as well as a **high tension lead (CH53544-1)**, and a highly effective **igniter (CH31993-2)** for your rocket's ignition needs!

Visit CHAMPIONAEROSPACE.COM/DISTRIBUTORS to find a distributor for these products.

IGNITER:

CH31993-2



- Champion's proprietary ceramic insulator provides excellent dielectric strength under extreme environmental conditions
- Extended electrode design
- Mounting threads – 14mm x 1.25
- Added “bell” shaped electrode optimizes spark ignition and fuel flow through the spark gap
- Capable of withstanding pressures in excess of 4,000 psi
- Capable of withstanding temperatures in excess of 1,800°F
- Used with many different rocket fuels, including Methane and Hydrogen

IGNITION EXCITER:

CH92111



- Input Voltage: 28 – 30 Vdc
- Output Voltage: 25kV Max
- Spark Rate: 100 sparks/second
- Welded enclosure provides hermetic seal
- Approximately 2.2lbs
- SAE ARP670 Type 3F output connector
- MS33678-12S-3P equivalent input connector
- Fits in 4" W x 7.5" L x 3" H Envelope
- Every Unit Helium Leak Tested for Hermetic Seal

HIGH-TENSION IGNITION LEAD:

CH53544-1



- High-voltage connectors designed per SAE ARP670 for better sealing than general aviation harnesses, improving in-flight ignition reliability in difficult LEO and space environments
- Metal-braided construction provides better EMI protection, higher temperature and abrasion resistance than silicone-jacketed harnesses, and still maintains excellent flexibility

SPARK → IGNITE → EXCITE

