



Aviation Technical Bulletin

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CHAMPION CH31801 IGNITER

The CH31801 igniter is a high voltage igniter which can be serviced in the same manner as an aviation spark plug. This igniter is used in AlliedSignal's GTCP36-280B and GTCP36-300 APU engines.

EQUIPMENT REQUIRED

Champion CT-475 Cleaner/Tester, or equivalent.

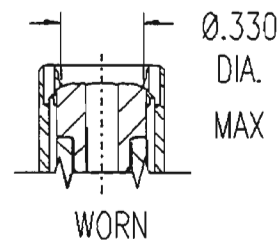
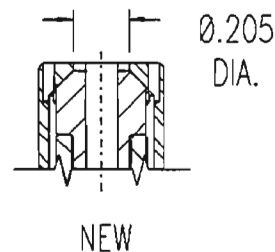
CLEANING

1. Abrasive-clean the firing end enough to remove deposits.
NOTE: Be sure cooling-air inlet holes are clear of all deposits after cleaning.
2. Clean terminal well with a felt swab saturated with Stoddard Solvent, wood alcohol or methylethylketone, using caution not to damage the terminal pin.

INSPECTION:

Reject igniter for the following reasons:

1. Visually check for mechanical damage. Reject if it shows impact damage, if connector well or firing end insulator is cracked or loose, or if connector pin is badly bent or broken.
2. Reject if firing end shell body is swollen or distorted.
3. Check igniter plug for electrical erosion. If erosion is equal to, or exceeds the measurement, reject. *SEE ILLUSTRATIONS:*



TESTING:

1. Using an 18mm thread adapter, install the cleaned igniter into the compression chamber finger tight.
2. Attach the high voltage lead to igniter terminal pin.
3. Apply 15# PSI of air pressure to bomb fixture.
4. Press tester button. Observe that spark is jumping gap steadily. If not, reject igniter.