

TECHNICAL BULLETIN



Customer
Support

SUBJECT: Ignition - Distribution - Igniter CH31858-2 Removal/Installation Procedures for General Electric CF34 engines.

ATA SYSTEM: 74-21

T.B. NUMBER: CH31858-2-07-002-R1

CHAMPION CH31858-2 IGNITER

The CH31858-2 igniter is a recessed gap igniter used in General Electric's CF34-3A1, -3B, and, -3B1 engines. Champion Aerospace is issuing this technical bulletin to provide instructions for the removal and installation of igniter CH31858-2 in the CF34-3 engine. The igniter is a one-piece design that eliminates the floating installation B-nut and incorporates the installation threads into the body of the igniter. Torque on the igniter is applied to the large hex wrenching flats using a 1.125" (28.6 mm) 6-point or 12-point deep well socket wrench at a recommended torque value: 50-75 lb/in. (5.6 - 8.5 N.m).

NOTE: Refer to the CF34 engine manual for detailed instructions on the installation and removal of the igniter in addition to the following.

REMOVAL.

1. Hold the large hex wrenching flats of the igniter with a 1.125" (28.6 mm) wrench. Use a box-end crowsfoot attachment to disconnect the ignition lead coupling nut connector from the igniter.
2. Install a 1.125" (28.6 mm) wrench to the large hex wrenching flats and remove the igniter from the engine.

INSTALLATION.

CAUTION: DO NOT LUBRICATE THE THREADS OF THE HIGH-VOLTAGE IGNITER WITH ENGINE LUBRICATING OIL.

DO NOT LUBRICATE THE THREADS OF THE COUPLING NUT ON THE IGNITION LEAD WITH ENGINE OIL.

DAMAGE TO THE IGNITION LEAD AND THE IGNITER CAN OCCUR BECAUSE THE OIL CAN CAUSE A SHORT OR A FIRE.

NOTE: To make installation and removal easier, magnesium hydroxide compound (unflavored milk of magnesia) can be applied onto the threads of the coupling nut of the ignition lead.

1. Install the igniter into the combustion chamber assembly and hand tighten until the igniter tip is in the ferrule of the combustion liner.
2. Install a 1.125" (28.6 mm) 6-point or 12-point deep well socket wrench onto the large hex wrenching flats of the igniter and tighten to recommended torque value: 50-75 lb/in. (5.6 - 8.5 N.m).
3. Install and hand tighten the ignition lead coupling nut connector on the igniter. Hold the large hex wrenching flats of the igniter with a 1.125" (28.6 mm) wrench.
4. Use a box end crows-foot attachment to tighten the ignition lead coupling nut connector to the igniter. (Refer to CF34 engine manual).