Spline Adapter 4089676

9 Tooth Spline for a Compressor with a Right Hand Thread Crankshaft, Pressure Oil Fed or Splash Lubricated. * (See Notes)

This kit contains one 9 tooth Spline adapter and this instruction sheet. Additional kits may be required to reassemble the air compressor. Cummins service tool 3165100 can be used to remove/install the spline.

Disassembly

- 1. The crankshaft of the air compressor must be securely held in place to remove the spline adapter.
- With the Air Compressor removed from the engine, clamp the drive gear in a vise with protective material (Brass) to protect the gear from damage. Do Not Damage The Drive Gear.
- With Cummins service tool 3165100 installed in the Spline turn CCW. It will require high removal torque (up to 600 Nm) in the CCW direction. Note: The spline is stamped with RH to identify the right hand thread.



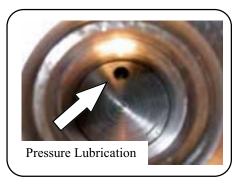


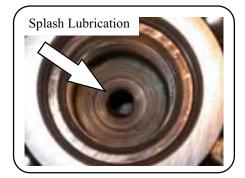




Inspection

- 1. The spline adapter in this kit is ready for use with a **pressure oil fed crankshaft**. A pressure oil fed crankshaft can be identified by looking into the end of the crankshaft, it will have approximately a **5/32 hole** on an angle.
- If the crankshaft has approximately a 5/16 hole drilled in the center of the crankshaft, this is the older "splash lubricated" style, and will require a minor modification to the spline adapter in this kit, as described in the "Cup Plug Removal" section.





***Note**: The cup plug needs to be removed from the adapter for use in a splash lubricated crankshaft.

Page 1 2/10/05 826 102 161 3 **Cup Plug Removal** (Required only with older "splash lubricated" crankshaft)

- 1. Support the outer lip of the spline being careful not to damage the threads of the adapter. A vise with brass jaws work well for this.
- 2. Use a soft drift (brass/plastic/wood) to drive the cup plug out the back of the adapter.





Reassembly

- 1. Wipe off the seating area of the Bearing.
- 2. Apply a light coat of oil to the threads of the new Spline.
- 3. With Cummins service tool 3165100 torque the Spline to 300 +/- 25Nm.



