

TORQUE CONVERTER

NOTE: Converter is a sealed unit and cannot be disassembled for service. Replace if found to be defective. Make the following tests to ensure converter is defective before replacing unit.

LEAK TEST

If torque converter welds indicate leakage, attach Torque Converter Leak Detector (Rotunda 021-00054) to converter and follow detector kit instructions.

TURBINE & STATOR END PLAY CHECK

1. Insert Tester (T80L-7902-D) into converter pump drive hub until it bottoms. Expand sleeve in turbine spline by tightening threaded inner post of tester until it is securely locked into spline. See **Fig. 9**.
2. Attach dial indicator to tool with indicator button on converter pump drive hub. Zero dial face. Lift tool upward as far as possible and note indicator reading.
3. Reading is total end play of turbine and stator. If end play exceeds .021" (.53 mm) on new or rebuilt converter, or .040" (1.02 mm) on used converter, replace torque converter assembly.

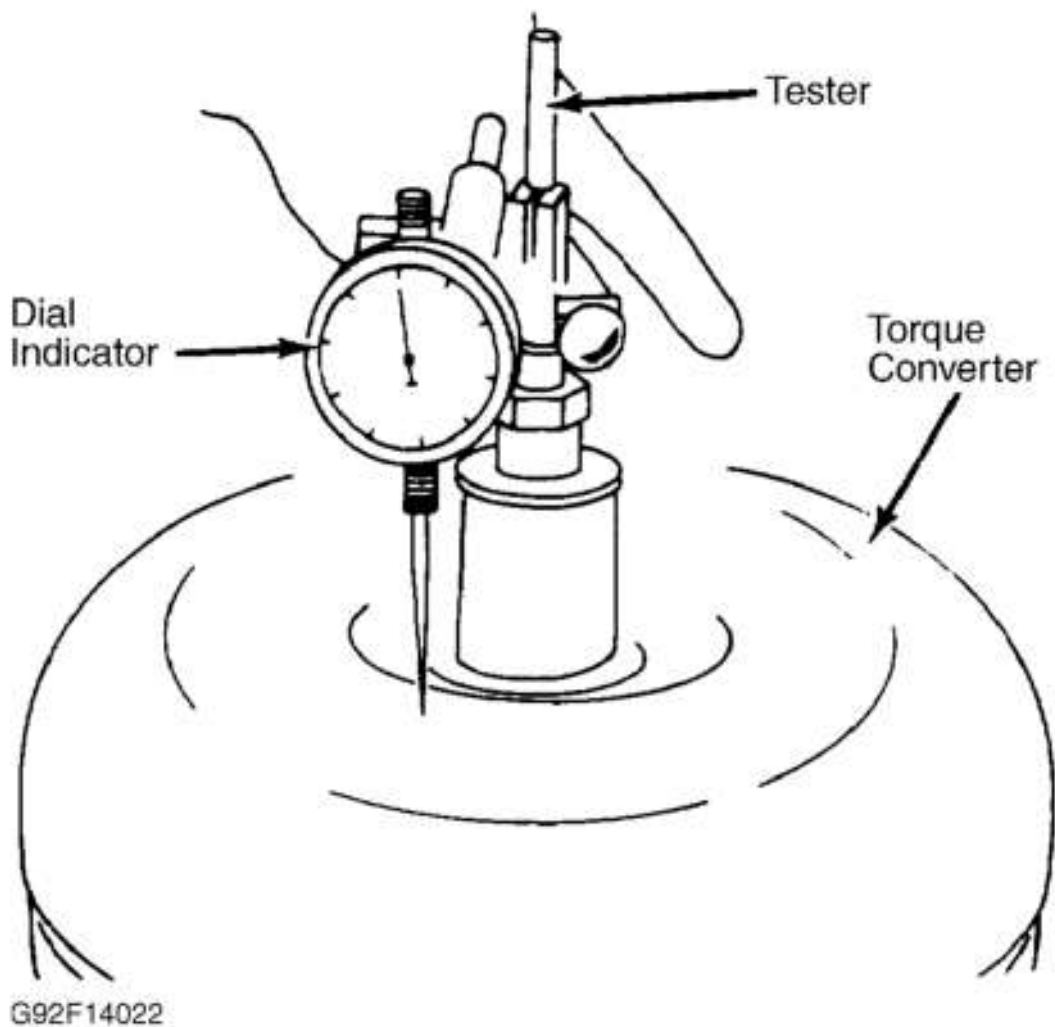
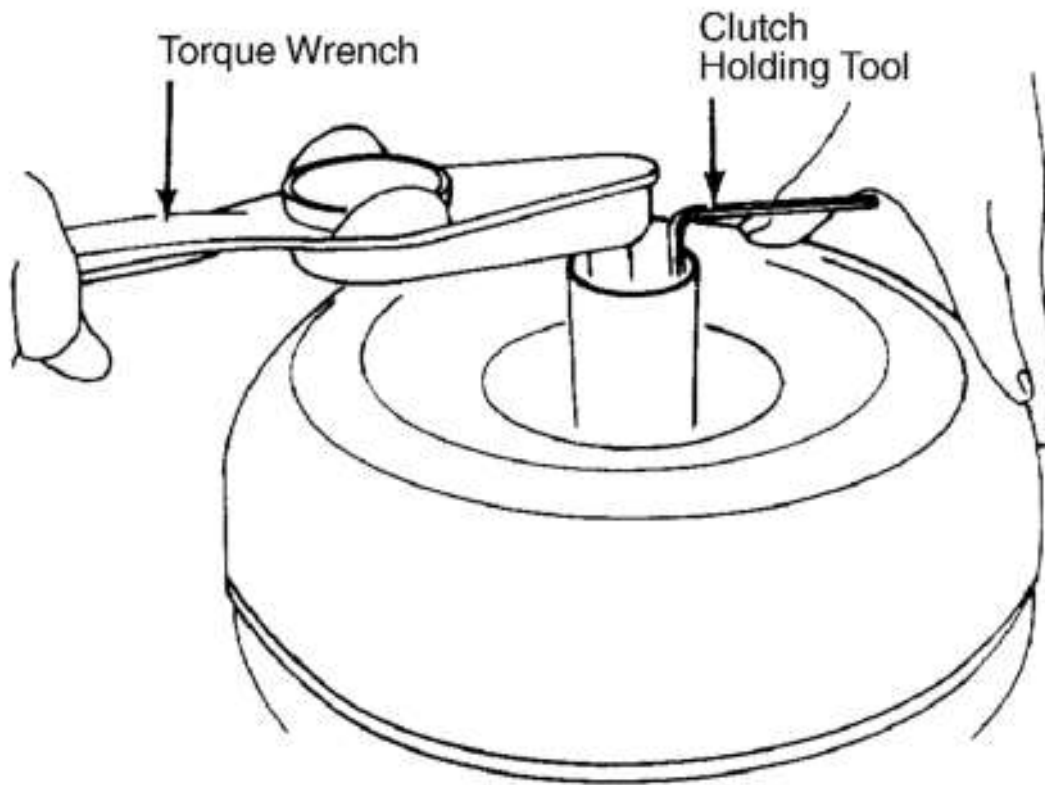


Fig. 9: Measuring Torque Converter End Play
Courtesy of FORD MOTOR CO.

CONVERTER ONE-WAY CLUTCH CHECK

1. Insert one-way Clutch Holding Tool (T77L-7902-R) into one of the grooves in the stator thrust washer. Insert Torque Adapter (T77L-7902-B) into converter pump drive hub so as to engage one-way clutch inner race.
2. Attach a torque wrench to torque adapter. With clutch holding wire held stationary, turn torque wrench counterclockwise. See **Fig. 10**. Converter one-way clutch should lock-up and hold a 10 ft. lbs. (14 N.m) force. One-way clutch should rotate freely in a clockwise direction.
3. Repeat lock-up test in at least 5 different locations around torque converter. If clutch fails to lock-up and hold, replace torque converter.



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Fig. 10: Checking Stator One-Way Clutch
Courtesy of FORD MOTOR CO.

STATOR-TO-IMPELLER INTERFERENCE CHECK

1. Position front pump assembly on bench with spline end of stator shaft pointing up. Mount converter on pump so splines of one-way clutch inner race engage splines of stator support and converter hub engages pump drive gear.
2. While holding pump stationary, rotate converter counterclockwise. Converter should rotate freely without interference or scraping within assembly. Should interference or a scraping condition within converter exist or if converter does not rotate freely, replace converter unit.

STATOR-TO-TURBINE INTERFERENCE CHECK

1. Place converter on bench, front side down. Install front pump assembly to engage mating splines of stator support, stator and pump drive gear lugs.
2. Install input shaft, engaging the splines with turbine hub. While holding pump stationary, rotate turbine with input shaft.
3. Turbine should rotate freely in both directions without interference or noise. If interference or noise exists, stator front thrust washer may be worn and converter should be replaced.