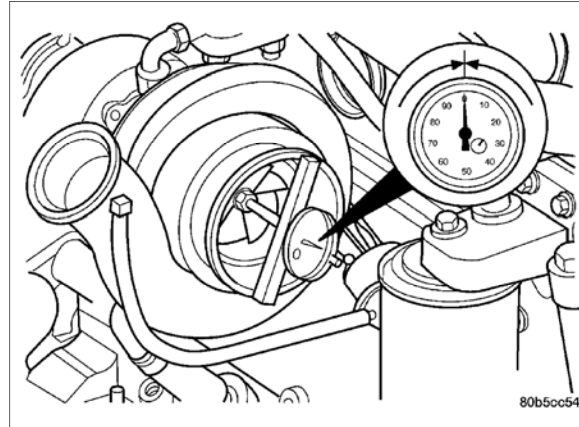
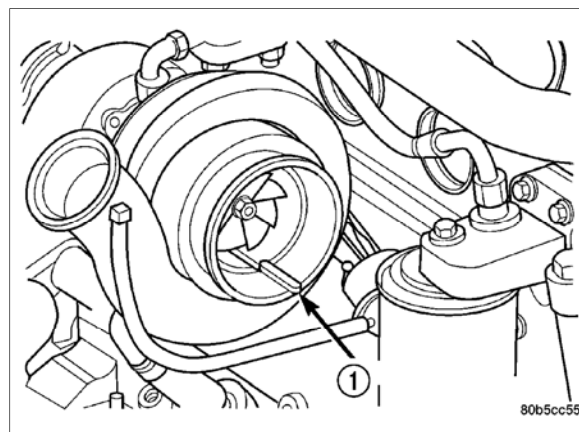


Turbocharger Compressor Wheel Inspection

1. Visually inspect the impeller and compressor wheel fins for nicks, cracks or chip.
2. Inspect the turbocharger compressor housing for an impeller rubbing condition. You should be able to 'feel' the contact groove.
3. Measure turbocharger axial end play,
 - a. Install dial indicator, zero the indicator at one end of travel.
 - b. Move the shaft fore and aft and record the measurement.
 - c. Check the allowable axial end play in the table below.



4. Measure the turbocharger bearing radial clearance,
 - a. Insert a **wire style feeler gauge** between the compressor wheel and the housing
 - b. Gently push the compressor wheel toward the housing and record the clearance.
 - c. With the feeler gauge in the same location, gently push the compressor wheel away from the housing and again record the clearance. **Measurement#1 – Measurement#2 = Total Radial Bearing Clearance**
 - d. **Subtract the smaller clearance from the larger clearance.** This is the radial bearing clearance.
 - e. Check the allowable radial bearing clearance in the table below.



Turbo Model	Axial End Play	Total Bearing Radial Clearance
S300 (Super B, Special)	.002" MIN & .005" MAX	.020" MIN & .027" MAX
Your (Customer) Turbo		