



**Disc Check**

## Special Tool(s)

	Brake/Automobile Brake Drum System with Vacuum 164-R3622 or equivalent
	Dial Indicator/Magnetic Base 100-D002 (D78P-4201-B) or equivalent

**⚠ WARNING:** Dust and dirt present on wheel brake and clutch assemblies may contain asbestos fibers that are hazardous to health when made airborne by cleaning with compressed air or by dry brushing. Failure to follow these instructions may result in personal injury.

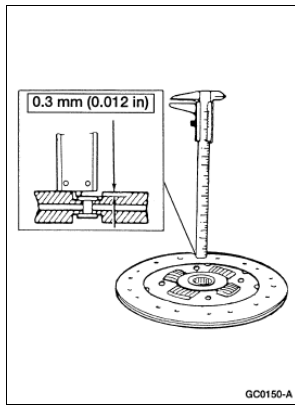
**⚠ WARNING:** Wheel brake assemblies and clutch facings should be cleaned using a vacuum cleaner recommended for use with asbestos fibers such as the brake automobile brake drum system with vacuum. Dust and dirt from the vacuum should be disposed of in a manner that prevents dust exposure such as sealed bags. The bag must be labeled according to OSHA instructions and the trash hauler notified as to the bag's contents. Failure to follow these instructions may result in personal injury.

**⚠ WARNING:** If a vacuum suitable for asbestos is not available, cleaning should be done wet. If dust generation is still possible, technicians should wear government-approved toxic dust purifying respirators. Failure to follow these instructions may result in personal injury.

**⚠ WARNING:** Grinding or sanding on the brake linings, pads, rotors, drums or clutch facings should be done only while using correct exhaust-ventilated equipment. Failure to follow these instructions may result in personal injury.

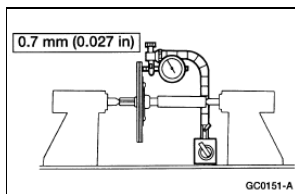
**⚠ WARNING:** OSHA requires areas where asbestos dust generation is possible to be isolated and posted with warning signs. Only technicians concerned with carrying out brake or clutch service should be present in the area. Failure to follow these instructions may result in personal injury.

1. Check the clutch disc lining surface for hardening or the presence of oil.
2. Check for a worn clutch disc lining. Measure the minimum allowable depth to the rivet heads with a slide caliper.

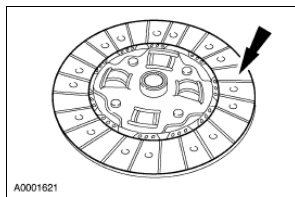


3. Check for loose clutch disc lining rivets.

4. Use the special tool to check the maximum allowable runout of the clutch disc.



5. Use an emery cloth to remove minor imperfections in the clutch disc lining surface.



6. Check for wear or rust on the splines. If necessary, clean them with an emery cloth.

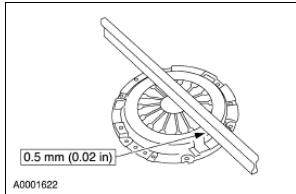
7. Check the clutch disc (7550) for cracking, scoring, discoloration or other surface marks. Install a new clutch disc as necessary.



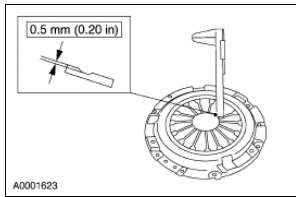
## GENERAL PROCEDURES

**Pressure Plate Check**

1. Check the clutch pressure plate surface for scoring, cracks or discoloration. Minor scratches or discoloration should be removed with a fine emery cloth.
2. Measure the flatness of the clutch pressure plate surface with a straightedge and a feeler gauge.



3. Check the diaphragm spring fingers for discoloration, scoring, bent or broken segments and spring ends that are higher or lower than the rest.
4. Measure the wear of the diaphragm spring fingers.



GENERAL PROCEDURES

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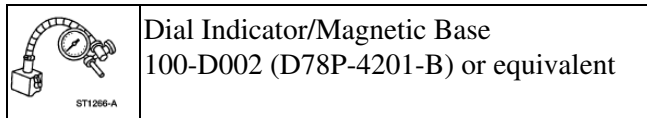
**Flywheel Check**

1. Check the flywheel surface for scoring, cracks or discoloration. Minor scratches or discoloration should be removed with a fine emery cloth.
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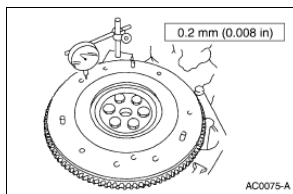
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**Flywheel Runout Check**

## Special Tool(s)



1. Mount the special tool so that the indicator contact point rides on the clutch disc contact surface.
2. Turn the flywheel (6375); if the runout exceeds the maximum allowance, install a new flywheel.



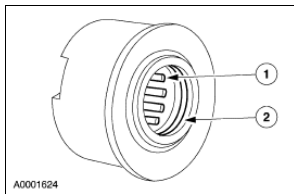
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**Bearing**

1. **⚠ CAUTION: The pilot bearing is a sealed bearing and must not be immersed in any type of cleaning fluid.**

Inspect the pilot bearing (7118) for:

1. needle rollers for scoring, worn or broken rollers, cracked roller cage inadequate grease or discoloration.
2. seal leakage.
  - misalignment and looseness in the crankshaft.



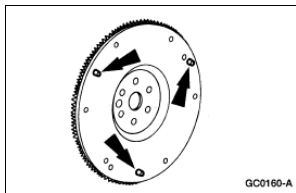
REMOVAL AND INSTALLATION

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**Dowels    Flywheel****Removal**

1. **NOTE:** Take care not to damage the flywheel dowel holes or the surface areas around the flywheel dowel during removal.

Remove the flywheel dowels by using a drift pin where the flywheel dowel is installed in an open hole and a pair of locking pliers where the flywheel dowel is installed in a blind hole.

**Installation**

1. **NOTE:** Care should be taken to drive the flywheel dowel squarely into place until it is fully seated and to not damage the surrounding surface areas.

Install all flywheel dowels by driving them into place using a brass or plastic mallet.

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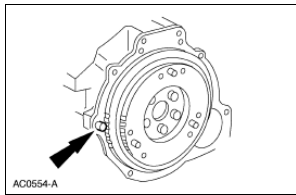


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**Dowels    Flywheel Housing to Block****Removal**

1. **NOTE:** Take care not to damage the flywheel housing to block dowel holes or the surface areas around the flywheel housing to block dowel hole during removal.

Remove the two flywheel housing to block dowels using a drift pin where the flywheel housing to block dowel is installed in an open hole and a pair of locking pliers where the flywheel housing to block dowel is installed in a blind hole.

**Installation**

1. **NOTE:** Care should be taken to drive the flywheel housing to block dowel squarely into place until it is fully seated without damaging the surrounding surface areas.

Install all flywheel housing to block dowels by driving them into place using a brass or plastic mallet.

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## General Specifications

Item	Specification
Transmission	5-Speed
Clutch pedal type	Suspended
<b>Clutch disc</b>	
Clutch diameter (3.8L) 280 mm (11.0 in)	Number of springs 4 plain (large) Color identification green
Clutch diameter (4.6L 2V) 267 mm (10.4 in)	Number of springs 5 plain (large) Color identification lavender
<b>Pressure plate</b>	
Pressure plate diameter (3.8L) 280 mm (11 in)	Color identification (paint daub) Green
Pressure plate diameter 4.6L (2V)	267 mm (10.5 in)
<b>Lubricants</b>	
Motorcraft Premium Long-Life Grease XG-1-C or XG-1-K or equivalent	ESA-M1C75-B

## Torque Specifications

Description	Nm	lb-ft
Pressure plate to flywheel bolt (3.8L)	33	24
Pressure plate to flywheel bolts 4.6L (2V)	35	26

