SECTION 206-00: Brake System General Information GENERAL PROCEDURES

2004 Focus Workshop Manual Procedure revision date: 08/28/2003

Brake Disc Runout Check Printable View (100 KB)

Special Tool(s)



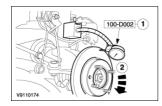
Holding Fixture, Dial Indicator Gauge 100-D002 (D78P-4201-B)

Check

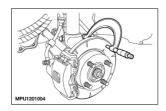
- 1. Loosen the wheel nuts.
- 2. Raise and support the vehicle. For additional information, refer to Section 100-02.
- 3. Remove the wheel.
- 4. Remove the brake pads. For additional information, refer to Section 206-03.
- 5. Reverse and install the wheel nuts to hold the brake disc in place.
- 6. Install a dial indicator gauge and holding fixture to the suspension strut.
- 7. NOTE: If the runout is outside the specification, check the wheel hub face runout.

Using a suitable dial indicator gauge measure the inner and outer faces of the disc.

- 1. Position the gauge so that it contacts the disc 10 mm (0.4 inch) from the outer edge.
- 2. Slowly rotate the disc. The total dial reading should not exceed the given specification. For additional information, refer to Specification.



- 8. Check the brake disc thickness variation.
 - Using a suitable micrometer measure the disc thickness at eight positions 45 degrees apart and 15 mm in from the outer edge of the brake disc.
 - If any of the readings vary by 0.015 mm or more, or the brake disc thickness is less than the specified minimum, a new brake disc should be installed.



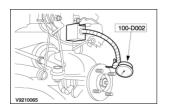
9. Remove the brake disc. For additional information, refer to Section 206-03.

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10. NOTE: Make sure the wheel hub face is clean and free of rust and foreign material.

Using the special tool, check the wheel hub face runout.

• Slowly rotate the wheel hub and check the runout. If the runout exceeds the given specification. Install a new wheel hub and recheck. For additional information, refer to <u>Section 204-01</u>.



11. If the hub face runout is within specification install a new brake disc and recheck the brake disc run-out. For additional information, refer to <u>Section 206-03</u>.

SECTION 206-00: Brake System General Information GENERAL PROCEDURES 2004 Focus Workshop Manual Procedure revision date: 10/23/2003

Brake Load Sensor Proportioning Valve Adjustment Maintain View (102 KB)

▲ WARNING: The brake load sensor proportioning valve adjustment must be carried out with the vehicle in the correct ride height condition. Failure to follow this instruction may result in personal injury.

NOTE: The vehicle should be in an unladen condition.

NOTE: The brake load sensor proportioning valve adjustment should be carried out when the vehicle weight is on the road wheels.

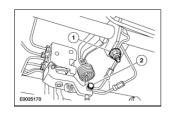
1. A WARNING: The additional weight must be positioned centrally over the rear axle. Failure to follow this instruction may result in personal injury.

NOTE: Use additional weight to set the vehicle to the correct ride height.

Using additional weight, set the vehicle to the correct ride height. Refer to the table below.

	Additional Weight Required	
Fuel Tank Level	kg	lb
Empty	40	88
¼ Full	30	66
¹∕₂ Full	20	44
³ ⁄ ₄ Full	10	22

- 2. Loosen the brake load sensor proportioning valve lever retaining nut and valve spring setting bar screw.
 - 1. Loosen the nut.
 - 2. Loosen the screw.



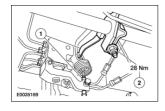
3. A WARNING: Incorrect adjustment of the brake load sensor proportioning valve spring setting bar will result in inefficient braking. The brake load sensor proportioning valve lever must be set in the correct position. Failure to follow this instruction may result in personal injury.

NOTE: Position the brake load sensor proportioning valve lever on the stabilizer bar so that the valve spring setting bar is central in relation to the setting bar screw.

Set the brake load sensor proportioning valve lever.

1. Position the lever.

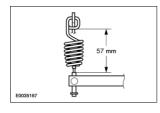
2. Tighten the retaining nut.



4. A WARNING: Incorrect adjustment of the brake load sensor proportioning valve spring setting bar will result in inefficient braking. The brake load sensor proportioning valve spring setting bar must be set in the correct position. Failure to follow this instruction may result in personal injury.

NOTE: Measure the dimension between the lower end brake load sensor proportioning valve spring hook and the groove on the valve spring setting bar.

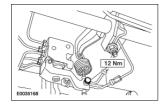
Set the brake load sensor proportioning valve spring setting bar to the correct position.



5. A WARNING: Incorrect adjustment of the brake load sensor proportioning valve spring setting bar will result in inefficient braking. The brake load sensor proportioning valve spring setting bar must be set in the correct position. Failure to follow this instruction may result in personal injury.

▲ CAUTION: While tightening the brake load sensor proportioning valve spring setting bar screw, make sure that the setting bar does not move.

Tighten the brake load sensor proportioning valve spring setting bar screw.



6. Remove the additional weight if necessary.