

Front Brake Disc Runout Check (70.12.15.01)

Special Service Tools

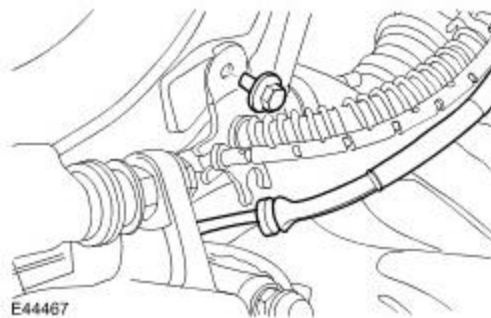


Dial indicator gauge holding fixture
100-053 (LRT-99-503)



CAUTION: Brake discs must be renewed in pairs, unless one disc requires changing before 1000 miles (1500 kilometers) from new.

1. Release the brake hose bracket from the wheel knuckle.
 - Remove the bolt.



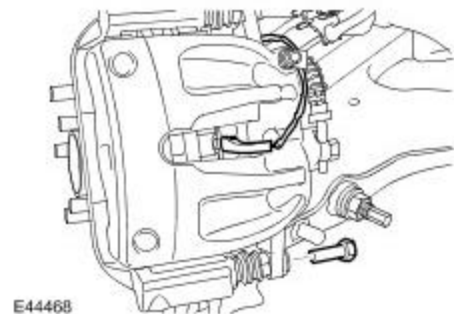
2.



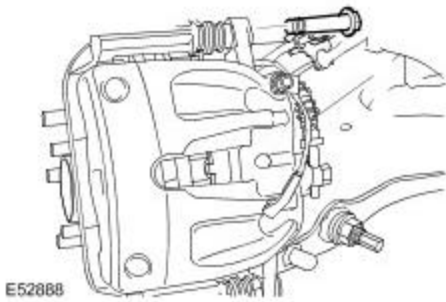
CAUTION: The brake pad wear indicator sensor is easily damaged. Do not use a lever to remove the sensor. Use fingers only.

LH side only: Disconnect the brake pad wear indicator sensor.

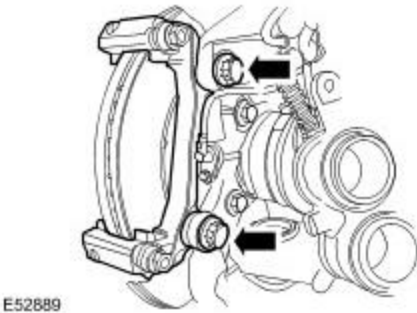
3. Remove the brake caliper lower bolt.



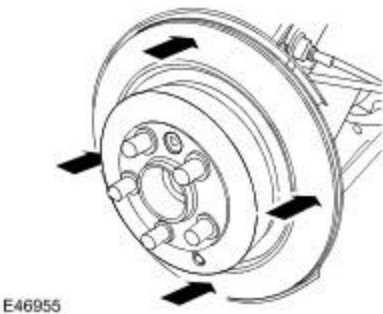
4. Remove the brake caliper upper bolt.



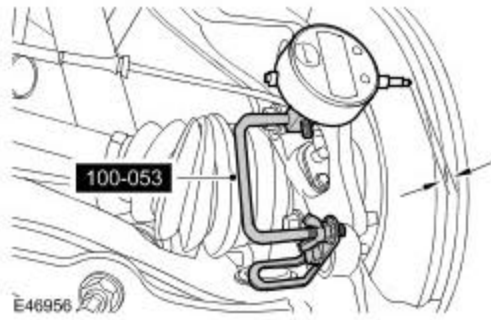
5. Tie the brake caliper housing aside.
6. Remove the brake caliper anchor plate.
 - Remove the 2 bolts.



7. Measure the brake disc thickness at four points around the brake disc.
 - Renew the brake disc if the thickness is less than the service limit, or if the maximum thickness variation is exceeded. Brake disc thickness, NEW = 30 mm, Service limit = 27 mm.

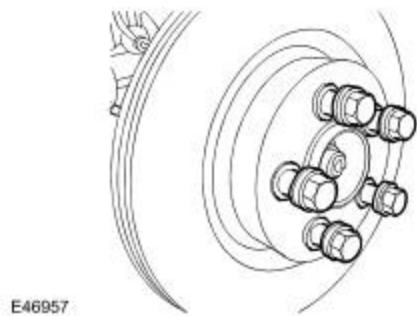


8. Using the special tool, install a dial indicator gauge to the brake caliper lower mounting.
 - Position the dial indicator gauge plunger 5 mm in from the outer edge of the brake disc.



9. Install the wheel nuts.

- Install spacer washers under the wheel nuts.
- Tighten the wheel nuts to 140 Nm (103 lb.ft).



10. Rotate the brake disc one revolution to measure the brake disc run-out.

- Brake disc run-out must not exceed 0.3 mm.

11. If the brake disc run-out is outside the limit. Remove the brake disc.

12. Make sure the brake disc and hub mating surfaces are clean.

13. Install the brake disc.

- Tighten the Torx screw to 35 Nm (26 lb.ft).

14. Install the wheel nuts.

- Install spacer washers under the wheel nuts.
- Tighten the wheel nuts to 140 Nm (103 lb.ft).

15. Rotate the brake disc one revolution to measure the brake disc run-out.

- Brake disc run-out must not exceed 0.3 mm.

16. If the brake disc run-out is still outside the limit, install a new brake disc and/or hub.

17. Remove the dial indicator gauge and the special tool.

18.



WARNING: Do not use compressed air to clean brake components. Dust from friction materials can be harmful if inhaled.

Clean the caliper housing and anchor plate using brake cleaning fluid.

19. Install the anchor plate.

- Tighten the bolts to 115 Nm (85 lb.ft).

20. Install the brake caliper housing and fit the top bolt.

- Tighten the bolt to 32 Nm (24 lb.ft).

21. Install the brake pads.

- Install the two clips.

22. Rotate the brake caliper downwards.

- Tighten the bolt to 32 Nm (24 lb.ft).

23. Connect the brake pad wear indicator sensor.

24. Secure the brake hose retaining bracket to the wheel knuckle.

- Tighten the bolt to 25 Nm (18 lb.ft).

25. Depress the brake pedal several times, check the fluid level in the brake fluid reservoir and top-up with brake fluid if necessary.