

TECHNICAL INFORMATION



Handbrake Vibration Noise

No: 70/06/04/NAS
Ref:
Issue: 1
Date: 28 October 2004

AFFECTED VEHICLE RANGE:

Discovery Series II (LT) ALL

SITUATION:

HANDBRAKE VIBRATION UNDER CERTAIN CONDITIONS

The customer may experience a vibration noise coming from the center console area when operating the vehicle at lower engine RPM. This may be the result of handbrake shoes vibrating against the back plate under certain engine loads.

RESOLUTION:

REPLACE RETAINING SPRINGS AND MODIFY THE LEFT-HAND SHOE.

The handbrake shoes may not be held down sufficiently at the top where the cross strut is located. This allows the shoe to vibrate against the back plate under certain engine loads. The noise is then transmitted into the passenger compartment.

PARTS INFORMATION:

SMN500050 Hold down spring kit - brake shoe Qty 1

DDW WARRANTY CLAIMS:

DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

Description	SRO	Time (Hours)	Condition Code	Causal Part
Transmission brake shoes - rectification	70.45.89/26	0.90	79	ICW500010
Transmission brake - adjust Up to VIN XA 222819:	70.45.09	0.30	79	ICW500010
Transmission brake - adjust From VIN XA 222820:	70.45.09	0.20	79	ICW500010

*Normal warranty policy and procedures apply.
Material allowance is included in labor operation.*

TIB 70/06/04/NAS	CIRCULATE: TO	Service Mgr X	Warranty X	Workshop X	Body Shop X	Parts X
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REPAIR PROCEDURE

INSTALL REPAIR KIT



NOTE: GTR lookup sequence is as follows:
GTR Home > NAS > Service Information/ LT
Discovery Series II/2004 > Workshop Manuals >
Service Procedures > Bookmark "Brakes 70-1" >
Contents "Repairs/ Brakeshoes - handbrake"

1. Refer to Global Technical Reference (GTR) section 70.45.18 for guidance follow the process below.
2. Slacken off the handbrake cable.
3. Disconnect the propeller shaft from the brake drum and position aside so that the brake drum is free to rotate.
4. Remove the brake drum.
5. Remove the left-hand brake shoe. (Figure 1)
6. On the rear face of the brake shoe mark 5 mm beyond the contact patch. (Figure 2)
7. Place the brake shoe in a bench vice taking care to protect the brake shoe lining.
8. Use a file to remove approximately 0.5 - 0.75 mm (0.020 to 0.030 in) of metal from the brake shoe platform (Figure 3).
9. Ensure that a uniform amount of material has been removed between the marks by placing a straight edge across the top of the shoe platform (Figure 4).
10. Apply primer to the bare metal on the brake shoe platform to prevent corrosion.
11. Install the left-hand brake shoe, using a new hold down spring from the kit. (SMN500050 - red in color).
12. Using a new hold down spring (red in color), replace the hold down spring on the right-hand brake shoe.
13. Install the brake drum

Figure 1

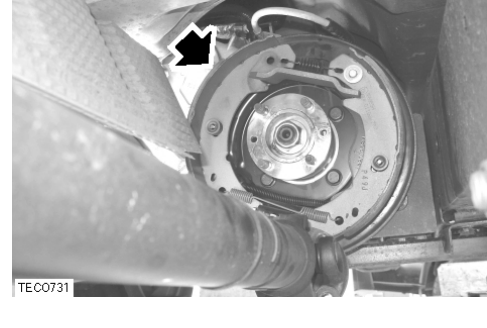


Figure 2

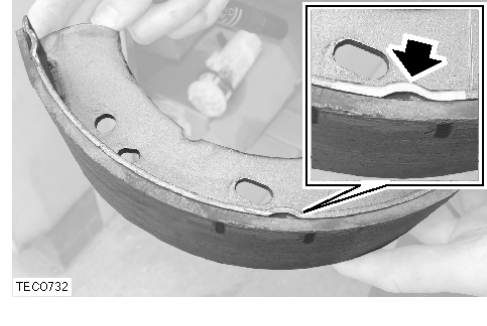


Figure 3

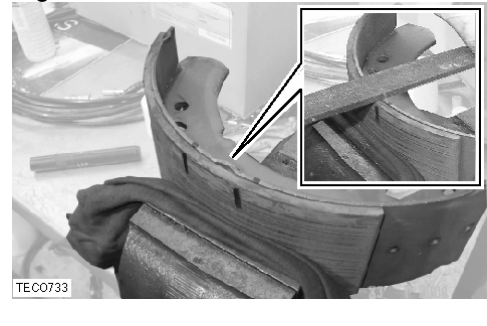
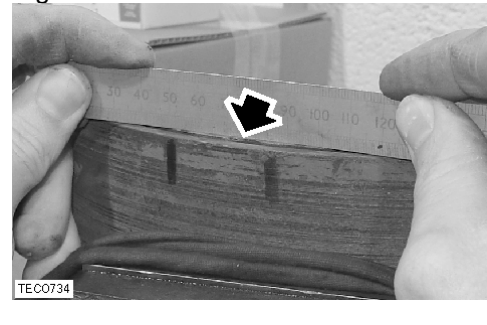


Figure 4





HANDBRAKE ADJUSTMENT

FOR VEHICLES UP TO VIN XA222819:

1. Refer to GTR section 70.45.09 and perform adjustment as described.

FOR VEHICLES FROM VIN XA222820:

1. Raise and support one rear wheel to permit brake drum to turn.
2. Tighten the brake shoe adjusting bolt to 25 NM (18lbf.ft).
3. Verify the drum is locked.
4. Back off the adjusting bolt by 1.5 turns.
5. Verify the brake drum is free to rotate.
6. Apply the handbrake lever three notches on the ratchet and check that the handbrake is fully operational.
7. Release the handbrake.
8. Adjust the length of the outer cable from under the vehicle.
9. Apply the handbrake lever three notches on the ratchet and verify that the handbrake is fully operational.
10. Lower the vehicle.