



TECHNICAL BULLETIN

No: LRA415-001

Issue: 1

Date: 11 Sep 2006

CIRCULATE: TO

Service Mgr
X

Warranty
X

Workshop
X

Body Shop
X

Parts
X

SECTION: 415-03 – ENTERTAINMENT SYSTEM

Speaker Vibration or Rattle Noise Diagnosis

AFFECTED VEHICLE RANGE:

Land Rover Vehicles

CONDITION SUMMARY:

SPEAKER VIBRATION OR RATTLING NOISE DIAGNOSIS

Situation: A customer may report a concern of a vibration noise or rattling sound from a speaker area. Various solutions are available to resolve the cause of the reported noise.

This bulletin has been issued to provide Retailers with information and steps to correctly diagnose and resolve the reported noise.

Action: Should a customer report a concern, verify that the noise is coming from an area near a speaker and refer to the steps outlined in the Repair Procedures detailed in this bulletin to correctly diagnose the issue **before** replacing a speaker assembly. The information contained in the Repair Procedure section should reduce the number of speaker assemblies that are being returned with "no fault found."

PARTS:

Refer to Microcat for the parts that are specific to the vehicle with the problem.

WARRANTY:



NOTE: When reporting repairs under warranty for speaker related noise issues, only report under 'audio' if the speaker has been replaced. For other conditions and repairs report the issue under the appropriate trim area.

Normal warranty policy and procedures apply.

NOTE: The information in Technical Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers." If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether the bulletin applies to a specific vehicle.



REPAIR PROCEDURE

1. Identify the area of the reported noise.
2. Check that the trim panels surrounding the speaker are correctly secured and not causing any vibration which is being attributed to the speaker.
3. Check for any customer belongings in door pockets that could be causing the issue.
4. Check the door casing mounted speaker cover/grills as follows:
 - Press and hold each grill in turn
 - Determine if the noise changes or stops.
 - If the noise does change or stops, check that the cover/grill is secured correctly to the door casing.

 **NOTE: When submitting a claim for securing a speaker cover/grill, the claim should be logged as 'trim' and not 'audio'.**


5. Properly secure the cover/grill where necessary.
6. If the noise persists, remove the door casing and perform the following:
 - Check the speaker for any obvious physical damage such as dented cones, rips or tears in the speaker membrane.
 - If damage is discovered replace the speaker.

 **CAUTION: Care must be taken to avoid over-tightening the speaker retaining screws.**

7. Check that all the speaker retaining screws are secure. Properly secure as necessary.

 **NOTE: When submitting a claim for repairing a rattle in the door, wiring harness or component, the claim should be logged as 'trim' and not 'audio'.**

8. Check the surrounding door structure, wiring harnesses and components for rattles, and properly secure where necessary.
9. Install a new speaker temporarily and determine if the problem is resolved.

 **NOTE: If the problem does not return in the step below when the original speaker is installed, the original speaker is not the root cause.**

10. If the new replacement speaker resolves the problem, perform the following:
 - Reinstall the original speaker to determine if the problem returns.
 - If the problem does not return, examine the trim or wiring harness routing for the likely cause.
 - If the problem returns with the original speaker, install the new speaker.
11. During final assembly perform the following:
 - Check that the speaker wiring or any harness parts are not vibrating against the speaker assembly.
 - Correctly route and secure all wiring as necessary.
 - Check that the speaker wiring is not trapped or impeding the speaker assembly.
 - Check that the speaker wiring connections are fully inserted and secure.