



TECHNICAL BULLETIN

No: LTB00085
Issue: 1
Date: 19 Sep 2007

CIRCULATE: TO

Service Mgr
X

Warranty
X

Workshop
X

Body Shop
X

Parts
X

SECTION: 501-16

Windshield Wiper Blades Knocking/Juddering – Diagnostic Procedure

AFFECTED VEHICLE RANGE:

Freelander (LN)	VIN: 2A353298	5A489743
LR2 (LF)	8H000212	Onwards
LR3 (LA)	5A000303	Onwards
Range Rover (LM)	3A101029	Onwards
Range Rover Sport (LS)	6A900290	Onwards

CONDITION SUMMARY:

WINDSHIELD WIPERS JUDDERING OR KNOCKING WHEN OPERATED

Situation: The windshield wipers judder or make a knocking noise when operated. This condition could be caused by the condition of the wiper arm mounting or spindle.

Action: In the case of a customer concern of the above, follow the diagnostic procedure outlined below.



NOTE: Technical Bulletin LTB00074 should be referenced to ensure the root cause of any judder/noise is not due to a permanent set condition of the wiper blade.



NOTE: The following conditions are NOT associated with this concern and are therefore not covered by this bulletin:

- Parts damaged in car washes.
- Bent levers or wiper blade structure.
- Bent arm-pieces to modify the attack angle.
- Damage of the wiping edge of the blade (torn or sections missing).
- Damage to the wiper blade rubber due to contamination with fuel, solvents or silicon-based products.
- Contamination on the wiper blade which would prevent the blade from performing its function of clearing the screen of water. Examples are: Fuel, wax, dirt, bird excrement, dead insects, and plant material.

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.



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PARTS:

DKB500550	Wiper Arm Assembly – Driver-side – LR3/Range Rover Sport	Qty 1
DKB500570	Wiper Arm Assembly – Passenger-side - Range Rover Sport	Qty 1
DKB500530	Wiper Arm Assembly – Passenger-side – LR3	Qty 1
DKB000160 PMD	Arm & Pivot Shaft Assembly – Driver-side - Range Rover	Qty 1
DKB000200 PMD	Arm & Pivot Shaft Assembly – Passenger-side - Range Rover	Qty 1
DKB103030	Wiper Arm Assembly – Driver-side – Freelander	Qty 1
DKB103090	Wiper Arm Assembly – Passenger-side – Freelander	Qty 1
LR002244	Wiper Arm Assembly – Driver-side - LR2	Qty 1
LR002246	Wiper Arm Assembly – Passenger-side - LR2	Qty 1

TOOLS:

LRT-84-100 Windshield wiper aligner (Range Rover)

WARRANTY:



NOTE: Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to DDW to obtain the latest repair time.

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

<i>Description</i>	<i>SRO</i>	<i>Time (Hours)</i>	<i>Condition Code</i>	<i>Causal Part</i>
Wiper arm assembly condition inspection	84.15.89/31	0.1	42	DKB500500

Normal warranty policy and procedures apply.

DIAGNOSTIC PROCEDURE



NOTE: GLOBAL TECHNICAL REFERENCE (GTR) LOOKUP SEQUENCE IS AS FOLLOWS:

- GTR Home > NAS > Model > Service Information > Model Year > Section: 84.15.02 – Wipers and Washers.

OR

- GTR Home > NAS > Model > Service Information > Model Year > Section: 501-16 – Wipers and Washers.

1. Remove the windshield wiper arm.

NOTE: Use the illustrations below for comparison purposes.

2. Visually inspect the windshield wiper arms and spindles.
 - Figure 1 is an example of a wiper arm which has been under-tightened. The arm has loosened and the splines of the spindle have worn away the material of the arm.
 - Figure 2 is an example of a spindle with a build-up of material from the wiper arm. This material should be cleared using a wire brush.
 - Figure 3 is an example of a wiper arm which has been misaligned on installation. The arm has worn in one area. The resultant wiper performance is affected by the incorrect angle of 'attack' of the blade on the glass, causing a poor wipe, noise and/or judder.
3. If any of the above conditions are found, the other wiper arm head should also be inspected for the same symptoms.
4. Any wiper arms showing evidence of the above conditions should be replaced.

NOTE: Land Rover Special Tool LRT-84-100 must be used when installing the windshield wiper arms on Range Rover (LM) models.

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5. Install the wiper arms.
6. Tighten the nut to the correct torque for the vehicle:
 - Freelander (LN) **18 Nm (13.2 lbf ft)**.
 - LR2 (LF) **25 Nm (18.4 lbf ft)**.
 - LR3 (LA) **18 Nm (13.2 lbf ft)**.
 - Range Rover (LM) **34 Nm (25 lbf ft)**.
 - Range Rover Sport (LS) **18 Nm (13.2 lbf ft)**.

