

TECHNICAL BULLETIN

LT303-004

23 JUN 2005



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SECTION: 303-03 (26 - Cooling System)

Discovery II - Method Change - Viscous Fan Renew

AFFECTED VEHICLE RANGE:

Discovery Series II (LT)

VIN:

VA200000-4A870624

VIN:

XA900000-XA907214

MARKETS:

All

CONDITION SUMMARY:

Situation: Change to Methods for removal and installation of the viscous fan assembly.

Cause:

Methods engineers at Land Rover have recently studied the service process for renewal of the viscous fan assembly for Discovery II Td5 models, and significant process changes have been made. The changes, detailed below, refine and improve the process which allow the operation to be carried out more efficiently.

Changes:

- Step for removal of acoustic cover - deleted.

Action: Should it become necessary to remove a viscous fan assembly on a Discovery II, please refer to the procedure detailed in this bulletin.

TOOLS:

Viscous fan holding tool

LRT-12-093

Viscous fan wrench


LRT-12-094

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 TOPIx to obtain the latest repair time.**

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

 **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.**

 **NOTE: Although the base time for this specific procedure remains unchanged at the minimum 0.20 hours, other processes that call this procedure will show an overall time reduction due to the accumulative effect of this procedure improvement. Refer to the attached table for effected procedures.**

DESCRIPTION	SRO	TIME
Coupling unit - viscous fan - renew	26.25.19	0.20 hours

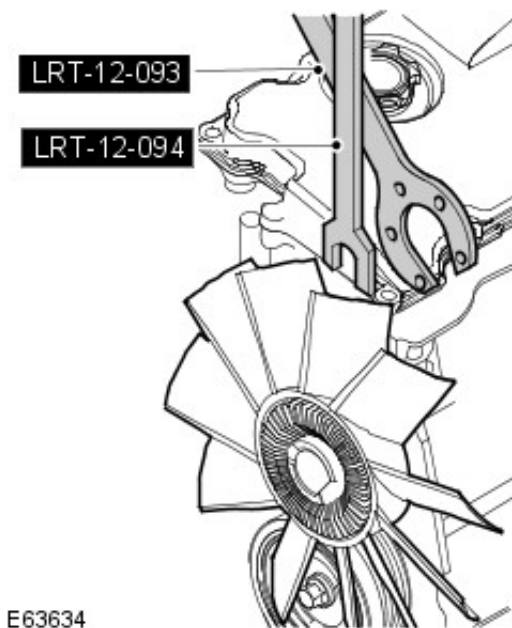
 **NOTE: Normal Warranty procedures apply.**

SERVICE PROCEDURE:

Please note that the relevant Workshop Manual Section, which these updated procedures relate to, will be updated at the next available opportunity.

Remove

- 1 Remove the upper fan cowl.
- 2 Remove the viscous fan coupling unit, using tools LRT-12-093 and LRT-12-094.



Install

- 3 Position the viscous fan coupling unit and tighten using tools LRT-12-093 and LRT-12-094.
- 4 Install the upper fan cowl.

Table Attachment 1

Existing Procedures Effected by this Procedure Change.

Operation Description	Operation Number	Old Time	New Time
Discovery Series II (LT), 4000 cc, Rover V8, With Secondary Air Injection - Camshaft - front/LH/each - renew	12.13.02	10.00	9.90
Discovery Series II (LT), 2500 cc, Td5 - Damper - crankshaft - renew	12.21.09	0.40	0.30
Discovery Series II (LT), 2500 cc, Td5 (to VIN 2002999999) - Gasket - cylinder head - LH/front/each - renew	12.29.02	3.80	3.70
Discovery Series II (LT), 2500 cc, Td5 (2003000001 to) - Gasket - cylinder head - LH/front/each - renew	12.29.02	3.80	3.70
Discovery Series II (LT), 2500 cc, Td5 - Cylinder head - LH/single - overhaul - includes installing new valve guides (or reaming cylinder head) & installing new valves	12.29.19	10.80	10.70
Discovery Series II (LT), 2500 cc, Td5 - Rocker shaft	12.29.29	1.50	1.40
Discovery Series II (LT), 2500 cc, Td5 - Rocker shaft assembly - LH/front/each - overhaul	12.29.49	1.70	1.60
Discovery Series II (LT), 2500 cc, Td5 - Oil seal - valve stem - inlet - engine set - renew	12.29.90	7.40	7.30
Discovery Series II (LT), Td5 (2002736340 to) - Valve - EGR - renew	17.45.01	0.70	0.60
Discovery Series II (LT), Td5 (2002736340 to) - Pipe - EGR cooler to EGR valve - renew	17.45.43	0.40	0.30
Discovery Series II (LT), 2500 cc, Td5 - EGR - Brazilian rework	17.45.89/31	3.00	2.90
Discovery Series II (LT), Td5 (to 2002999999) - Charge air cooler - renew	19.42.15	1.10	1.00
Discovery Series II (LT), 2500 cc, Td5 - Injector - each - renew	19.60.10	1.70	1.50
Discovery Series II (LT), 2500 cc, Td5 - Injectors - set - renew	19.60.12	2.30	2.20

Discovery Series II (LT), 2500 cc, Td5 - Injector diagnosis	19.60.89/28	2.50	2.30
Discovery Series II (LT), Td5 (2002736340 to) - Hose - EGR cooler to valve/pipe - renew	26.31.01	0.50	0.40
Discovery Series II (LT), Rover V8 - Thermostat - test - includes install new thermostat if necessary	26.45.09	1.20	1.10