

Range Rover
Discovery Series II

AFFECTED RANGE:

	Hub/Axle shaft	Differential Pinion Flange
All Range Rover up to VIN:	YA 434637	YA 435750
All Discovery II (System 2) up to VIN:	Introduced at Job 1	YA 260194
All Discovery II (System 1) in VIN range:	Introduced at Job 1	XA 900000 to XA 907212

DE ISSUE INFORMATION

AFFECTED RANGE and WARRANTY CLAIMS amended, Loctite 640 deleted, Differential Pinion Flange information and Discovery Series II details added.

Please destroy your existing copy and replace with this Issue 2.

PROBLEM:

CLICKING NOISE FROM REAR AXLE

When pulling away from rest in either direction, a clicking noise may be heard from the rear of the vehicle.

CAUSE:

Excessive spline movement on either:

- The rear axle shaft to hub spline, (Range Rover).
- The rear differential flange to pinion spline, (Range Rover and Discovery II).

ACTION:

At the above VINs, the application of Loctite to the above spline locations was introduced during manufacture.

- In case of customer complaint on a vehicle within the affected range, apply Loctite 648 to the axle shaft or pinion spline as detailed below.

NOTE: Loctite 640, previously specified on Issue I of this bulletin, has been cancelled for use on vehicles in service due to its extended cure time.

- When reassembling rear hubs or rear diff flanges for any other reason, regardless of VIN apply Loctite 648 to splines as detailed below.

NOTE Loctite has been applied to Discovery II rear hub splines since the introduction of the model. Should a Discovery II rear hub be dismantled for any reason, regardless of VIN, Loctite 648 should be used on reassembly as detailed below.

o hub spline:

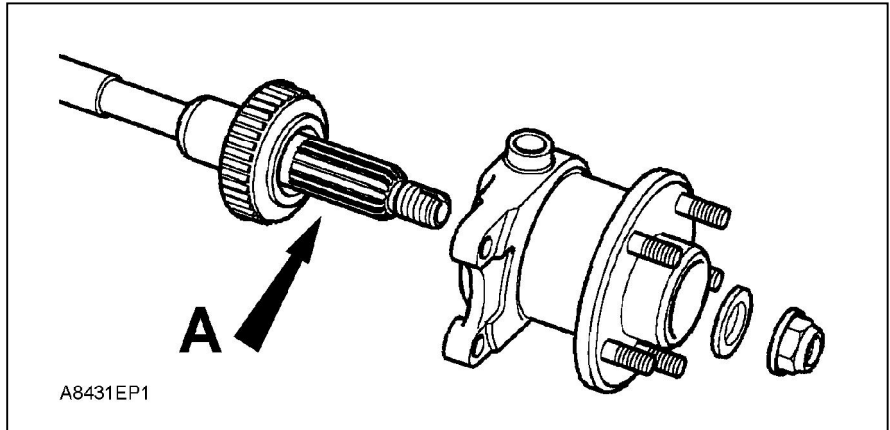
number [64.15.01](#) for the repair procedure, noting

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- Carefully remove the hub and shaft assembly from the axle case to avoid damage to the oil seal.
- With axle shaft removed from hub, thoroughly clean and degrease the shaft and flange spline.

NOTE: Ensure that from this stage the repair can be completed without delay so that work is completed within Loctite 648 cure time.

- Apply Loctite 648 to the shaft spline ensuring that only the spline area is coated, ('A' in illustration).
- Reassemble the hub and shaft and fit a new stake nut.
- Tighten the stake nut to an initial torque of 100 Nm.
- Carefully refit hub and shaft assembly to axle case avoiding damage to oil seal.



- When the vehicle has been lowered onto road wheels, tighten the stake nut to the full torque of 340 Nm and stake the nut.
- Allow 2 hours for the Loctite to cure before driving vehicle.

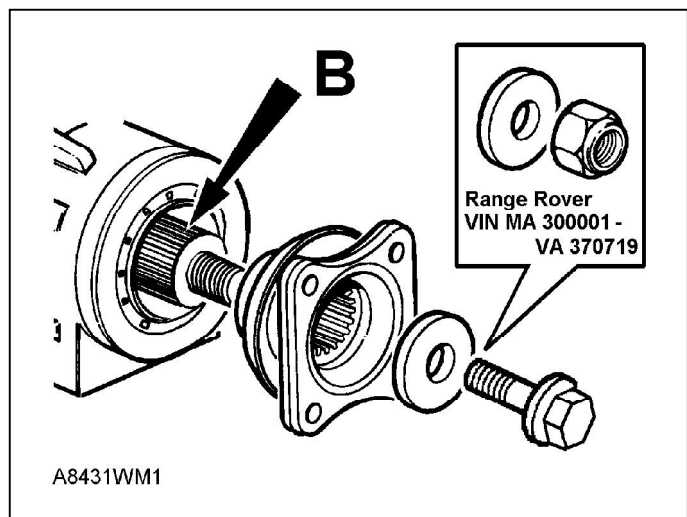
Clicking noise from rear differential flange to pinion spline:

Refer to Workshop Manual repair number [51.20.01](#) for the repair procedure, (ignore the remarks regarding oil seal remove and refit), noting the following:

- With pinion flange removed, thoroughly clean and degrease the pinion shaft and flange spline.

NOTE: Ensure that from this stage the repair can be completed without delay so that work is completed within Loctite 648 cure time.

- Apply Loctite 648 to the pinion shaft spline ensuring that only the spline area is coated, ('B' in illustration).



CAUTION: Range Rover vehicles up to 97.5 Model Year - VIN VA 370719 - have pinion flanges secured with a nut. Later vehicles use a flange bolt, (refer to illustration). It is essential that each fixing type is tightened to the correct torque as specified below.

fit flange and tighten nut to **135Nm**.

sure before driving vehicle.

PARTS INFORMATION:

CDU1534L - Stake nut - 1 per rear hub

NY116041L - Nyloc nut - rear differential flange - if required

FS112301P - Bolt - rear differential flange - if required

Loctite 648 - Locally sourced

WARRANTY CLAIMS:

Apply Loctite 648 to rear axle shaft spline - Range Rover only:

Use Complaint Code: 4L5G

Use S.R.O.: 64.15.01 - Rear hub renew - each side

Apply Loctite 648 to rear differential pinion spline:

Use Complaint Code: 4R6G

Use S.R.O.: 51.15.36 - Differential flange renew

Refer to the Repair Operation Times Manual for the model in question for individual repair times.