

# TECHNICAL BULLETIN



**MODEL/DERIVATIVE:**  
**Discovery Series II (LT)**

**Bulletin N°:** 0040  
**CDS. ref:** L8936bu  
**Issue:** 1  
**Date:** 18.06.04

**AFFECTED RANGE:**  
**All 4.6 litre V8 derivatives from VIN 3A 767790**

**PROBLEM:**  
**MINOR SPEED FLUCTUATIONS AT OR AROUND THE SET SPEED WHEN USING CRUISE CONTROL**

**CAUSE:**  
With the cruise control set at or above the threshold speed of 25 mph (40km/h) in a forward gear, the V8 4.6 litre derivatives may exhibit minor speed fluctuations of up to 3 mph (5 km/h) around the 'target' speed, predominantly between 50 - 70 mph (80 - 112 km/h).  
This can be caused by the cruise control software configuration or the adjustment of the cruise control cable.

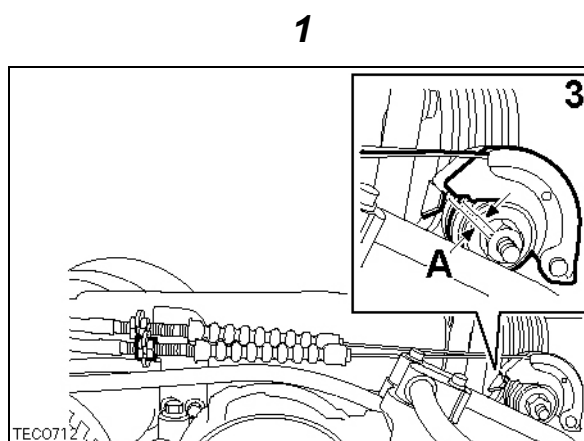
**ACTION:**  
Should a customer express concern regarding the above with cruise control engaged, the 4.0 litre cruise ECU tune can be downloaded to the cruise control ECU for the V8 4.6 litre derivatives. Additionally, the cruise control cable setting should be checked/adjusted. Refer to the rectification procedure.

## Rectification procedure

**NOTE:** The Workshop Manual does not show the correct cruise control cable setting. The Workshop Manual will be updated to show the correct setting at the next available opportunity.

1. Refer to the Global Technical Reference (GTR), Discovery Series II Workshop Manual, part number VDR100090 (8<sup>th</sup> edition), Engine Management System - V8, Adjustments, Cable - Cruise Control, repair number 19.75.11 and verify that the gap between the cam and the lever is set between 0.5 - 1.5 mm (0.019 - 0.029 in), dimension 'A' in illustration 1.

**NOTE:** The middle of the range 1mm (0.040 in) is the optimum setting and should always be set for the best possible operation of the cruise control system.



2. Connect T4 to the vehicle and load disc Archive 21 or a later version and begin a new diagnostic session.
3. Turn the cruise master switch on (switch illuminated).
4. Follow the on-screen instructions and select 'Diagnostic System'.
5. Follow the on-screen instructions and select 'Cruise Control'.
6. Follow the on-screen instructions and select 'Petrol'.
7. Follow the on-screen instructions and select 'Vehicle Maintenance'.
8. Follow the on-screen instructions and select 'Program ECU'.
9. Follow the on-screen instructions and select 'Set new tune 4.0L engine'.

**NOTE:** *Download of the tune values from T4 to the vehicle will take only a few seconds.*

10. End the diagnostic session and return to the 'Welcome' screen, disconnect T4 from the vehicle.

**NOTE:** *Notify the customer that the Cruise Control ECU requires some adaption time after programming. This may take up to approximately 10 miles at a constant 30 and 50mph (using cruise).*

---

**PARTS INFORMATION:**

Not applicable

---

**WARRANTY CLAIMS:**

Use Complaint Code: 2W2Y

**SRO: 12.90.13 - Check and adjust cruise control cable and update software**

**Time allowance: 0.30 hrs**

**Direct Dealer Warranty (DDW) 2**

All DDW 2 users must enter a causal part number. Labour only claims must show a causal part number with a quantity of zero.

Description	SRO	Time allowance	CC	Causal part
Check and adjust cruise control cable and update software	12.90.13	0.30 hrs	42	AMR5700