



# Technical Service Bulletin

No.LTB00196

19

January 2009

**Subject/Concern:** Puma Engine Breather Pipe Freezing

**Models:**

Defender (LD)	2.4 Diesel Puma Only	2.4 Diesel Puma Only VIN- range: 7A732615 Onwards
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**Markets:** Russia and Scandinavian Markets Only

**Section:** 303-00

**Summary:**

Engine oil leaks.

**Cause:** Driving the vehicle at temperatures on or below Zero deg C, freezing of the engine crankcase breather hoses resulting in engine oil leaks. **Suggested Customer Concern Code - D50.**

**Action:** Should a customer express concern, install a new heated breather kit. Follow the Service Instruction outlined below.

**Parts Required:**

Description	Part Number	Quantity
Heated breather kit	LR012616	1

**Labour Time:**

Operation Description	Operation No.	Time
Install a new heated breather kit	17.10.89/28	0.2 hours

**Repair/Claim Coding:**

**Causal Part:** LLN500030

**ACES Condition Code:** D8

**Defect Code:**

## Service Instruction

1. Release the crankcase breather hose from the charge air duct assembly.



- 2 . Insert the metal tube inside the breather spigot of the charge air duct assembly.
  - 1 . Install until the bead of the breather spigot locates fully behind the retaining collar.
  - 2 . Push the crankcase breather hose over the bead forms and up to the moulded stop of the heater unit.

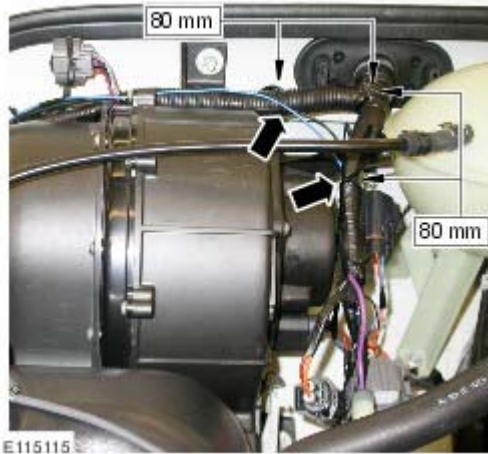


- 3 . Disconnect the engine harness from the heater motor assembly.

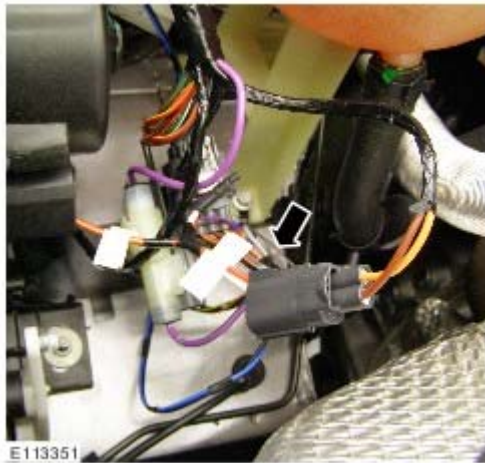


- 4 . **NOTE:** Using suitable cable ties, cable tie as necessary to secure the link harness and the in line fuse (the first cable ties must be attached 80mm from harness junction (see E115115)).

Route the new link harness around the heater motor assembly (along the wing/bulkhead).



- 5 . Install the harness splitter to the engine harness.



- 6 . Connect the splitter harness to the heater motor assembly.
- 7 . Locate suitable ground point and secure the link harness to the ground point.

