# TECHNICAL BULLETIN

No: LTB00122
Issue: 1
Date: 10 MAR 2008

| CIRCULATE: TO | Service Mgr | Warranty | Workshop | Body Shop | Parts |
|---|---|---|---|---|---|
| | X | X | X | | |

***SECTION: 303***

# Engine Coolant Fill / Bleed Procedure

## *AFFECTED VEHICLE RANGE:*

| | | |
|---|---|---|
| **LR3 (LA)** | **VIN:** | **7A413982 - Onwards** |
| | **Model Year:** | **2007 - Onwards** |
| **Range Rover (LM)** | **VIN:** | **7A239036 - Onwards** |
| | **Model Year:** | **2007 - Onwards** |
| **Range Rover Sport (LS)** | **VIN:** | **7A983117 - 7A999999**<br>**7A100001 - Onwards** |
| | **Model Year:** | **2007 - Onwards** |

## *CONDITION SUMMARY:*

**Situation:** A condition may occur where the low coolant level warning message or lamp is illuminated. This condition could be caused by an incorrect coolant level in the coolant expansion tank due to air being trapped in the system.

**Action:** In the event of a customer concern of the above, follow the Repair Procedure outlined in this service bulletin to fill and bleed the cooling system.

## *PARTS:*

**No parts necessary**

## *TOOLS:*

**No special tools necessary**

## *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.

| *Description* | *SRO* | *Time (Hours)* | *Condition Code* | *Causal Part* |
|---|---|---|---|---|
| Coolant - Top-up and Bleed | **26.10.89/38** | **0.30** | 42 | PCF500070 |

*Normal warranty policy and procedures apply.*

## *REPAIR PROCEDURE*

### VERIFY COOLANT LEVEL

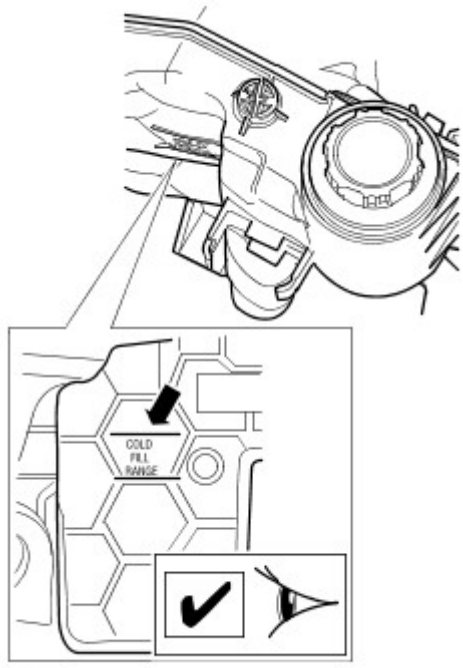
**WARNING: Follow GTR and general workshop safety procedures when working on the engine cooling system**

1. Remove the coolant expansion tank cap.

**NOTE: View the expansion tank from the side, not the top.**

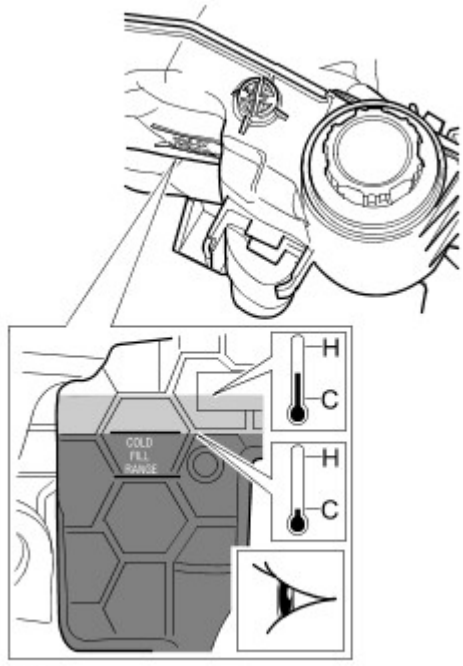
2. Verify the coolant level by viewing the side of the expansion tank. (Figure 1)
3. If the engine temperature is cold (gauge on 'C') the coolant level must be at the top of the 'COLD FILL RANGE'. (Figure 2)
   - If necessary, top up the cooling system to the correct level with coolant.

Figure 1




4. If the engine temperature is normal (gauge on 'Normal') the level must be **30mm** (**1.2in**) above the top of the 'COLD FILL RANGE'. (Figure 2)
   - If necessary, top up the cooling system to the correct level with coolant.

Figure 2




### BLEEDING THE COOLING SYSTEM / VERIFY COOLANT LEVEL

1. Bring engine to normal operating temperature:
   - Raise engine to 3,000 rpm for one minute.
   - Let engine idle for five minutes.
   - Raise engine to 3,000 rpm for one minute.
   - Let engine idle for five minutes.
2. Verify the coolant level is **30mm** (**1.2in**) above the 'COLD FILL RANGE'. (Figure 2)
3. Install the coolant expansion tank cap.