

## TECHNICAL ALERT

April 7, 1999 TA99 1901

NAS X US Only Cda Only

ATTENTION: Service Manager Service Advisor Technician

## **Discovery Series II Fuel Gauge Inoperative**

AFFECTED VEHICLE RANGE:

DISCOVERY (LT) All

## SITUATION:

#### INCORRECT FUEL GAUGE READING

Some Discovery Series II vehicle owners have encountered fuel gauges which either do not indicate above half a tank or are stuck at one reading. The root cause of this is incorrect positioning of the fuel pump in the tank, causing the float arm to foul.

#### RESOLUTION:

### REMOVE PUMP AND EVALUATE SENDER FUNCTION

Upon owner complaint of the above symptoms follow the procedure below to evaluate and correct the problem.

NOTE: It is not normally necessary to replace the fuel pump to correct this condition.

## PARTS INFORMATION:

ESR3806 ......Fuel Pump Gasket Qty 1 ALWAYS REQUIRED

WFX101070.....Fuel Pump Assembly Qty ONLY if defective or damaged

### **WARRANTY CLAIMS:**

19.45.08..... Time 0.70 hrs.

Remove and install fuel pump

19.45.08/50..... Time 0.90 hrs.

Remove and install fuel pump with 3<sup>rd</sup> row seats fitted

**FAULT CODE: U** 

Normal warranty policy and procedures apply

### REPAIR PROCEDURE:

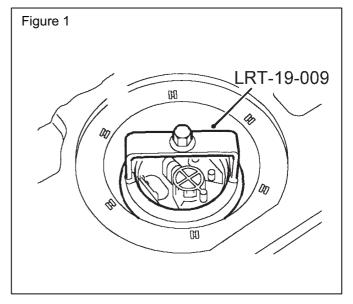
WARNING: Observe all cautions and warnings when working with fuel and fuel systems.

# REMOVAL AND INSPECTION OF FUEL PUMP ASSEMBLY

- 1. Refer to Section 19.45.08 of the Workshop Manual and remove the fuel pump assembly using special tool LRT-19-009. (Figure 1)
- 2. Refer to the resistance chart on Fuel System REPAIR page 19-2-8.
- Connect an ohm meter and check the resistance of the fuel gauge through the float arm full range of motion against the values in the WSM chart.

## INSTALLATION AND POSITIONING OF FUEL PUMP ASSEMBLY

NOTE: A fuel pump may only be replaced if inspection indicates damage to the pump assembly or the resistance measurement is out of specification.



CAUTION: A new pump tank seal is ALWAYS required when installing a pump. Proper pump orientation is critical.

- 1. Place a **new** fuel pump seal (ESR3806) in the tank opening.
- 2. If the resistance of the sending unit is within specification and no damage is observed, position the original pump in the tank.
- 3. If the resistance measurement was out specification, or the pump assembly is damaged, position a new pump assembly (WFX101070) in the tank.
- 4. Verify that the pump is oriented properly in the indentation in the base of the tank.
- 5. Refer to the Workshop Manual and complete fuel pump installation.