

# TECHNICAL BULLETIN



*MODEL/DERIVATIVE:*  
Discovery Series II  
Defender

*Bulletin N°:* 0029  
*CDS. ref:* L8625bu  
*Issue:* 1  
*Date:* 19.12.01

*AFFECTED RANGE:*  
All Td5 diesel derivatives

*PROBLEM:*  
**UNNECESSARY REPLACEMENT OF CYLINDER HEAD**

Concern has been expressed regarding the surface appearance of the cylinder head mating face when the cylinder head is removed for any reason.

*CAUSE:*  
Fretting marks on the cylinder head to cylinder block mating face in the shape of the head gasket sealing ring.

*ACTION:*  
Illustration 1 shows a typical cylinder head mating face.

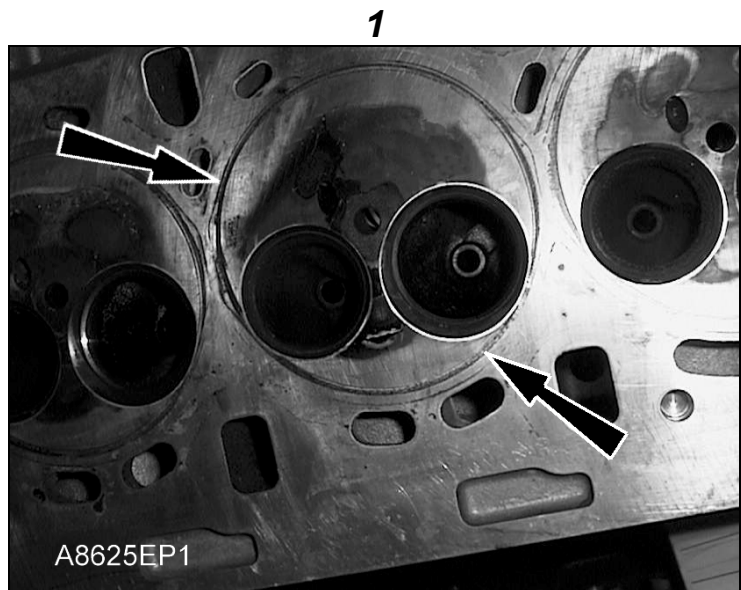
The fretting marks surrounding the combustion areas, (arrowed in illustration) have been the subject of enquiries from the Dealer network.

Investigation by Land Rover Engineering has confirmed that these marks are completely normal and have no detrimental effect whatsoever on the operation of the engine.


Cylinder heads must therefore **NOT** be changed for this reason alone.

Prior to refitting, the fire face of the head should have any raised material in the area of the gasket sealing bead removed using a carborundum stone. Only a fine stone in good condition should be used. The face should then be thoroughly cleaned before the head is refitted with a new gasket. Providing that all other aspects of cylinder head condition are satisfactory, (flatness for example), the cylinder head can be refitted.


Refer to 'Inspect' - Workshop Manual, Engine Td5, Overhaul, repair number 12.29.02.01 for full details of cylinder head inspection.



**Rectification notes:**

- On disassembly, note the thickness indicator holes in the cylinder head gasket and ensure that the same thickness gasket is used on reassembly, (one, two or three holes - refer to *PARTS INFORMATION*).
- On reassembly, use new cylinder head bolts ERR5384 and tighten in the sequence shown in the Workshop Manual, repair number 12.29.02 or 12.29.02.01.
- If the camshaft carrier to cylinder head joint has been disturbed, reseal the joint and tighten the camshaft carrier bolts using the procedure described in Technical Bulletin  0022.



- Ensure no damage occurs to the Exhaust Gas Re-circulation (EGR) pipe when removing and refitting the cylinder head.
- Ensure that no stress is placed on the EGR pipe when removing and refitting bolt securing EGR valve pipe clamp to cylinder head.
- For further information on the EGR pipe refer to Technical Bulletin  0002.

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*PARTS INFORMATION:*

Part Number	Description	Qty/ Veh
LVB000240	Gasket - cylinder head - 2 holes (1.20mm)	1
LVB000250	Gasket - cylinder head - 1 hole (1.27mm)	1
LVB000260	Gasket - cylinder head - 3 holes (1.35mm)	1
ERR5384	Bolt - cylinder head	12

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*WARRANTY CLAIMS:*

Select Complaint code and SRO appropriate to the repair carried out.