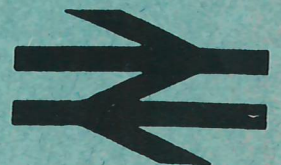
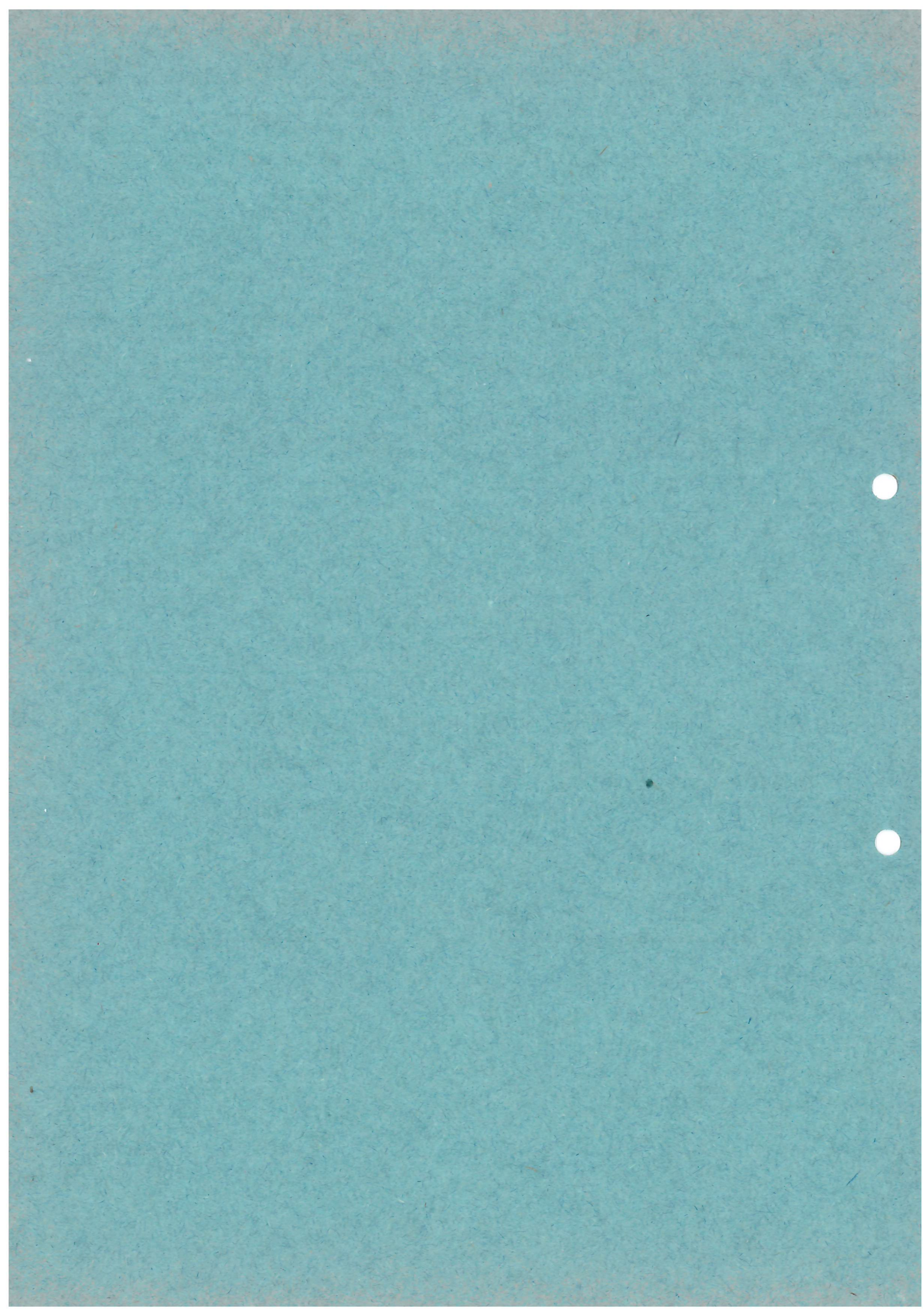

British Railways Board

Mechanical & Electrical Engineer's Department

**OVERHAUL AND TESTING OF COOLANT
HEADER TANK AND RELIEF VALVE
DMU WITH MECHANICAL OR
HYDRAULIC TRANSMISSION**





SECTION NO.	DATE	REVISION	SECTION NO.	DATE	REVISION
			12	SRP	1
			12	SRP	2
			12	SRP	3

PROCESS SPECIFICATION
C.E.P.S. 1045

OVERHAUL AND TESTING OF COOLANT
HEADER TANK AND RELIEF VALVE
DMU WITH MECHANICAL TRANSMISSION

Should any query arise regarding the contents of this specification,
contact:

G.P.O. 0332-42442 Ext 3524
B.R. 056-3524

JULY 1982

Issued by: D of M & EE
Railway Technical Centre
Derby

PROCESS SPECIFICATION NO CEPS 1045OVERHAUL AND TESTING OF COOLANT HEADER TANK AND RELIEF VALVE (DMU
WITH MECHANICAL TRANSMISSION)GENERAL

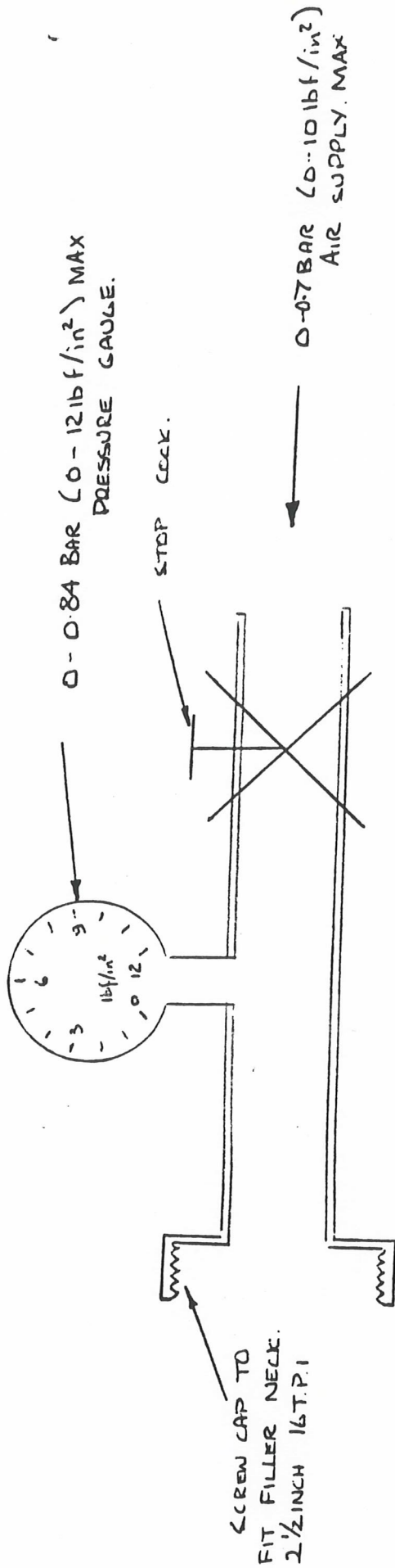
This specification details the method of overhauling and testing engine coolant header tanks and relief valves removed from a vehicle undergoing workshop repair or returned from a Depot.

OPERATIONS

1. OVERHAUL AND TESTING OF COOLANT HEADER TANK
 - a) Remove the pressure relief valve and attend to as in 2 below.
 - b) Clean the tank and examine for leakages, signs of corrosion and damage. Renew tank if any corrosion is evident. Repair minor leaks and damage but if extensive, renew the tank. A small bead of weld is to be applied to all captive nuts which are inaccessible for holding from outside the tank. Newly welded areas must be treated with an epoxy pitch and cured in accordance with manufacturers instructions.
 - c) When re-assembling, graphite or molybdenum disulphide grease shall be applied to all threads.
 - d) Fit new or inspected IRL relief valve, using a new gasket between the tank and the adaptor plate BR Drawing No M-A3-9013206 Item 11, BR Cat No 2/131840 (where necessary).
 - e) Test as follows (on Power Cars with pressurised systems).
 - i) Fill the header tank to capacity and fit filler cap with special adaptor and pressure gauge.
 - ii) Blank off one relief valve (outlet pipe).
 - iii) Pressurise the system slowly to check that the relief valve opens at 0.28 - 0.42 bar, (4 - 6 lbf/in²) DO NOT PRESSURISE IN EXCESS OF 0.7 bar (10 lbf/in²).
 - iv) Remove the blank from the relief valve.
 - v) Repeat ii), iii), iv) for the other valve.
 - vi) Blank both relief valves off and pressurise the tank to 0.7 bar (10 lbf/in²) checking for leakage.
 - vii) De-pressurise the system, remove the blanks, adaptor and pressure gauge. Refit the standard filler cap after checking the cap seal.
 - viii) Empty tank using bottom drain to ensure relief valves admit air.
2. VISUAL CHECK OF PRESSURE RELIEF VALVES

A visual check of both the rubber seal condition and the ball cleanliness should be undertaken before a pressure relief valve is reused on a header tank.

Header tanks that are the integral type should be tested when complete with radiator.



PRESSURE TESTING EQUIPMENT.

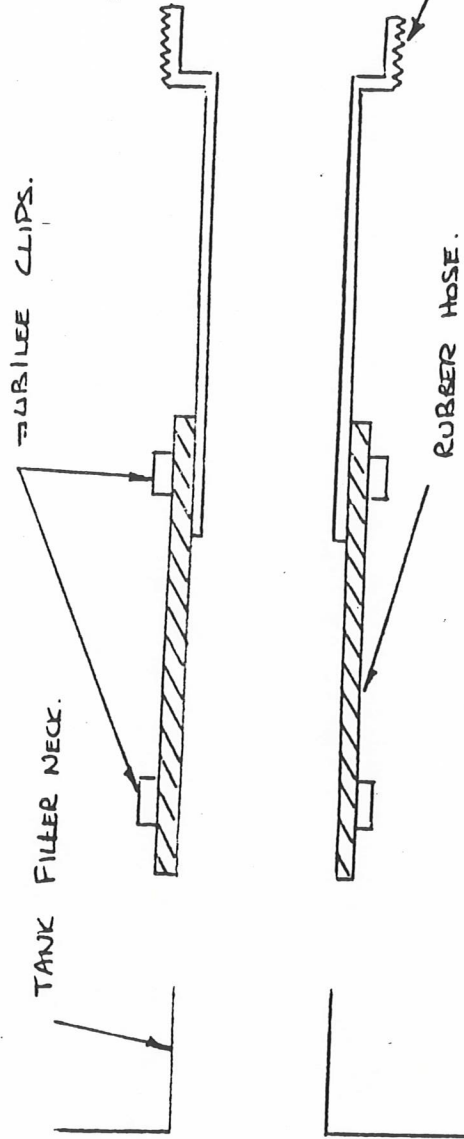


FIG.1

ADAPTOR TO FIT WHERE FILLER CAP CANNOT NORMALLY BE FITTED

PROCESS SPECIFICATION
OVERHAUL AND TESTING OF COOLANT HEADER
TANK AND RELIEF VALVE
DMU WITH MECHANICAL TRANSMISSION
B R PUBLICATION NO C.E.P.S 1045
REVISION LETTER NO 3

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Page 1, Issue 3	Replace with Issue 4 of this page	Paragraph 1 (b) amended

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting), for easy future reference.

DATE: May 1983

REF: SSS 220-6-2

TEL: 056-3582

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Derby

PROCESS SPECIFICATION
OVERHAUL AND TESTING OF COOLANT HEADER TANK
AND RELIEF VALVE. DMU WITH MECHANICAL TRANSMISSION

BR PUBLICATION NO CEPS 1045

REVISION LETTER NO 2

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Page 1 Issue 2	Replace with Issue 3 of this page.	Paragraph 1(b) and 1(c) revised.
Figs 1 and 2	Replace with Fig 1 Issue 2 (This was previously Fig 2)	Drawing for Teddington Relief Valves no longer required.

After incorporating the above, endorsed the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting), for easy future reference.

DATE : DECEMBER 1982

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PROCESS SPECIFICATION
OVERHAUL AND TESTING OF COOLANT HEADER TANK
AND RELIEF VALVE
DMU WITH MECHANICAL OR HYDRAULIC TRANSMISSION
BR PUBLICATION NO C.E.P.S. 1045
REVISION LETTER NO 1

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Front cover and contents of book	Remove and destroy, replace with new issue dated July 1982	Specification up-dated

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting) for easy future reference.

Date : JULY 1982
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Tel : 056-3582

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