DIRECTOR OF MECHANICAL & ELECTRICAL ENGINEERING

DERBY

Engineering Instru	<b>iction</b>
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No. MD / 384

TITLE

REPLACEMENT OF LOOSE RIVETS, GEARBOX REAR MOUNTING BRACKETS AND TRIMMERS, CLASS 108 DMU

### LOCOMOTIVES, VEHICLES OR EQUIPMENT

<u>Description</u>	<u>Serial Nos.</u>	Lot Nos.	
CLASS 100 POWER CARS	50599 to 50646	30406, 7, B	
	50924 to 50935	30460	
	50938 to 50987	30465	
	51416 to 51424	30498	
·	51561 to 51572	30461	
	519N1 to 51050	30601	

LOCOMOTIVE, VEHICLE OR EQUIPMENT CODES

DMU 108

#### COMPONENT CODES

0610

#### INSTRUCTION

WORKS DEPOTS

This Instruction supersedes Engineering Instruction MD/384 Issue 1 dated 30 Apr 82, which shall be destroyed.

Where rivets fastening the gearbox rear mounting brackets to the mounting trimmer and the trimmer to the underframe longitudinals are found to be loose they are to be replaced as follows:-

<u>In Depots</u>: loose rivets to be removed and replaced by high tensile steel bolts, prevailing-torque nuts, and plain washer. (See Table)

In Main Works: Joints to be examined for signs of movement and to be hammer tested to check for looseness. Joints showing evidence of movement, or having loose rivets, or having high tensile bolts and prevailing torque nuts fitted by Depots as above, to be completely disassembled, cleaned, and refastened using either rivets, or Huckbolts, or Avdeloks (See Table). In positions where there is inadequate access to fit rivets, or Huckbolts, or Avdeloks, then high tensile bolts and prevailing torque nuts may be fitted.

To prevent intermetallic corrosion occurring between the steel bolt or rivet and the aluminium underframe members, the contacting surfaces should be painted before fastening.

Signed Date 17 3 83 Corres. Ref. TSU/177-2-342 (CGW)

Countersigned No. Dof M&E.E. Telephone No. 056-3525

For B.R.E.L. HQ. USE ONLY

B.R.E.L. Eng. Inst. No. Type of Instruction Estimates of unit cost change are fare not required....

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B.R.E.L. Eng. Inst. No.	Туре	of Instruction	Estimates of unit cost change are lare not required	
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tedistribution Panel	To :-	Divisional / Works Manager
œ	Signed for D.	Corres, Ref

Delete whichever is not applicable

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No. ISSUE 2
SHEET No.2 of 3

# **Engineering Instruction**

(Continuation)

POSITION		ILS OF BOI		RIVET	HUCKBOLT PART	AVDELOR
(See Fig.1)	BOLT	NUT	WASHER		NUMBER AND BR CAT NUMBER	AVDELOK PART NUMBER AND BR CAT NUMBER
A	3/8" BSW Hexagon Head,	3/8" BSW prevail- ing- torque nut, ordinary,	-,	Snap Head, Steel 3/8" Dia., BS641 BR Cat Nos.		
	1.3/4" long BR Cat No 3/9353	) ) ) )	) ) ) ) )	30/ 14860	Pin C6LB-R12-16 Collar 2LC-R12 BR Cat No 30/43540 (Pin with Collar)	Pin 2611-1216 BR Cat No 30/42623 Collar 2662- 1200 BR Cat No 30/43772
В	) ) ) ) )	BR Cat Nos 3/79802 or 3/79944	)BR Cat )No )3/80965 )	30/ 14360	)Pin C6LB-R12-10 ) )Collar 2LC-R12 )BR Cat No )30/43537	)Pin 2611-1210 )BR Cat No )30/42615 )Collar ) 2662-1200
	)1.1/2" ) )1ong ) )BR Cat ) )No ) )3/9063 )		) ) )	30/ 14480	)(Pin with )(Collar)	)BR Cat No )30/43772 ) )
D	) -)		) )	30/ 14480	)	)

## **Engineering Instruction**

(Continuation)

