

RKP

DERBY

Engineering Instruction

No.

MD / 396

ISSUE 2

TITLE

SIDEBEARER SPRINGS, CLASS 108 DMU

LOCOMOTIVES, VEHICLES OR EQUIPMENT

Description

Serial Nos.

Lot Nos.

CLASS 108 DMU

(as listed)

LOCOMOTIVE, VEHICLE OR EQUIPMENT CODES

DMU 108

COMPONENT CODES

0620

INSTRUCTION

WORKS

DEPOTS

This Instruction supersedes Engineering Instruction MD/396 Issue 1 dated 9 Nov 82, which shall be destroyed.

Difficulty in obtaining the correct bogie height (1' 9" (534 mm) to 1' 9.1/2" (546 mm) rail to underside of bogie sideframe) whilst retaining at least 1/2" (12 mm) clearance between the horn guides and the leaf springs occurs with Class 108 Power and Trailer Cars when fitted with wheels of diameter 34" (864 mm) or less.

To overcome this problem new designs of sidebearer springs shall be introduced on Class 108s at leaf spring repairs and overhauls. The new designs of springs are identical to the old designs except that a 1/2" packing is incorporated within the spring buckle.

Continued...

Signed JCS Shore Date 14/2/83 Corres. Ref. TSU/177-320-302(CGW)

Countersigned MVCossey D. of 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 / are not required	
	Recurring	Non-Recurring	Recurring	Non-Recurring

Redistribution Panel

To :-

- * Divisional / Works Manager -----
- * Works / Depot -----

Please acknowledge receipt of this Engineering Instruction

Signed _____ Corres. Ref. _____ Date _____
for D.M.&E.E./MD, B.R.E.L.

* Delete whichever is not applicable

No.

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ISSUE 2

Engineering Instruction

SHEET No.2 of 2

(Continuation)

Class 108	Spring Number	OLD (SUPERSEDED) SIDEBEARER SPRING		NEW (SUPERSEDING) SIDEBEARER SPRING		
		Drawing Number	BR Cat No	Spring Number	Drawing Number	BR Cat No
Power Car	214	DE56077	14/32061	214A	B1-A1-9006602	14/2683
Trailer Car	215	DE56251 Item 1	14/32066	215A	DE56251 Item 2	14/2791

In the period whilst the new springs are being introduced, in order to obtain 1/2" (12 mm) clearance between the horn guides and the leaf springs, bogie frames may be set 1/2" (12 mm) low (ie. between 1' 8.1/2" (522 mm) and 1' 9" (534 mm) rail to underside of bogie sideframe), provided;

- i) the wheel diameter is 34" (864 mm) or less.
- ii) the new sidebearer springs incorporating 1/2" packing within the buckles are not fitted.
- iii) the vehicle height is adjusted so that buffers remain at 3' 5.1/2" (1055 mm) to 3' 6" (1067 mm) above rail.

NOTE: The 215 spring is also used on Class 105 Driving Trailer cars, but by long standing these have been modified by having a 1/2" packing attached to the bottom of the buckle. The 215A spring introduced by this Engineering Instruction for Class 108 trailer cars is equally suitable for the Class 105 Driving Trailer cars and may be used instead of the modified 215 spring used hitherto.

Class 108 DMUs

	<u>Vehicle Number</u>	<u>Lot Number</u>
<u>Power Cars</u>	50599 to 50624	30406
	50625 to 50629	30407
	50630 to 50646	30408
	50924 to 50935	30460
	51561 to 51572	30461
	50938 to 50987	30465
	51416 to 51424	30498
	51901 to 51950	30601
	52037 to 52065	30660
<u>Driving Trailers</u>	56190 to 56210	30409
	56212 to 56214	30410
	56221 to 56270	30466
	56271 to 56279	30499
	56484 to 56504	30602
<u>Trailers</u>	59380 to 59385	30411
	59245 to 59250	30412
	59386 to 59390	30493