

CHIEF MECHANICAL & ELECTRICAL ENGINEER B.R.B. H.Q.

DERBY

Engineering Instruction

No.

MD/197

ISSUE

1

TITLE

DISPLACEMENT OF INSTRUMENT PANEL LIGHT DIMMING RHEOSTATS

LOCOMOTIVES, VEHICLES OR EQUIPMENT

Description	Serial Nos.	Lot Nos.
DMU Power and Driving Trailer Cars	Various	Various

INSTRUCTION

WORKS

DEPOTS

The dimming rheostat originally specified for use in DMU instrument light circuits is no longer available.

When an original unit requires renewing the alternative, of BR design, shall be fitted in accordance with this Instruction.

There are two basic forms of instrument illumination in DMU cabs

- (i) using 35 Volt 6 watt lamps *or 30 volt*
 (ii) using 24/28 Volt 15 watt lamps

and each arrangement requires different attention as follows:-

1. Vehicles fitted with 35 volt 6 watt panel lamps, Class Nos. 100, 103, 104, 110, 118, 119, 122, 128, 131.
 These require neither a ballast resistor nor dimmer.
 - 1.1 Remove the dimmer rheostat from the drivers panel, retaining the top plate
 - 1.2 Remove ballast resistor where fitted.
 - 1.3 Connect lamp feed wire to instrument lamp on/off switch.
 - 1.4 Fit blanking plate BR Drg No C-A3-15714 Item 9, BR Cat No 14/1948.
 - 1.5 Re-fit top plate, plain side uppermost.
 - 1.6 Secure with 2 BA screws, BR Cat No 35/28206.
2. Vehicles fitted with 24/28 volt 15 watt panel lamps, Class Nos. 105, 106, 107, 108, 114, 115, 116, 117, 120, 121, 123, 124, 125, 126, 127, 130.
 These require both a ballast resistor and a dimmer.

This Instruction is to be implemented - Immediately.

Signed *M. Petrook* Corres. Ref. TDM 177-260-302 (LSH) Date 5.3.76
 for C.M. & E.E. (B.R.B.) H.Q.

FOR B.R.E.L. H.Q. 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 C.M. & E.E./M.D., B.R.E.L.

* Delete whichever is not applicable.

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(Continuation)

- 2.1 Remove the dimmer rheostat from the drivers panel, retaining the top plate.
- 2.2 Remove the ballast resistor.
- 2.3 Connect switch and lamp wires to Terminal Strip BR Drg No. C-A3-15714 item 6, BR Cat. No. 54/9310 on resistor mounting plate, BR Drg No C-A3-15714 item 8, BR Cat No 14/1947.
- 2.4 Fit mounting plate, after first removing the dim/bright switch securing bush.
- 2.5 Drill out centre hole of top plate to 1/2" dia. and fit plain side uppermost, idented dim/bright with 'Dymo' tape labels.
- 2.6 Secure with 2 BA screws, BR Cat No 35/28206.
- 2.7 Fit the switch securing bush.

The following material is required in addition to the items mentioned above.

DESCRIPTION	BR CAT NO	NO REQUIRED
Cable 30/20.	6/101365	700 mm
Resistor Welwyn WH 50	14/1946	2
2 BA Hank Rivet Bush	30/850	3
Switch, Bulgin Single Pole	52/35901	1
No 6 x 3/8" Self Tapping Screw	35/55824	4
M2.5 x 20 mm long slotted Cheese Head Screw	35/104192	2
M2.5 Hexagon Nut	3/174010	2

MATERIAL DISPLACED

Toroidal Rheostats
Wire Wound Ballast Resistors
(Repaired as required in Main Works)

BR Cat No 52/31590
No BR Cat. Number