BRITISH RAILWAYS

LONDON MIDLAND REGION

STANDARD MAINTENANCE INSTRUCTION

C.M.& E.E. Ref: CME/RO.92/48/C64 C.M.& E.E., (BRB) ENG. INSTRUCTION CODE NO. WF7.	STANDING ORDER	NO. FSM.20F.
This instruction supersedes FSM.20F dated 23.4.69 which must now be destroyed.	DATE '7.1.71	
Units Applicable:-	LOT NOS.	VEHICLE SERIAL NOS.
All Freightliner Vehicles	VARIOUS	VARIOUS

VARIABLE LOAD VALVE SETTING.

Requirements Correct setting of variable load valve mechanism at tare condition of vehicle.

Reason To ensure correct braking effort on wagon over complete load range.

Work to be Done

. Component Check

- 1.1. Check from sheets 1 to 8 of Appendix 'A' that the components fitted are dimensionally correct for the particular vehicle being dealt with.
- 1.2. Change components as necessary.
- 1.3. Check nylon bush of vertical rod for wear and bell crank for any "free-play".
- 1.4. Change nylon bush or red and tighten bell crank pivot nuts as necessary.

2. Setting

* Note

Items 2.4 & 2.7 will not apply when setting up vehicles with FL1 bogies since these are not fitted with bolster friction wedges.

- 2.1. Apply sufficient handbrakes on the train to ensure safety of staff working on the vehicle being dealt with.
- 2.2. Isolate air brake on vehicle concerned.
- 2.3. Disconnect vertical control rod at bell crank.
- * 2.4. Bar friction wedges downwards into bolster with special tool provided and pin in position thus allowing bolster to take up a natural position at "tare" load. (See Appendix 'B').

2. Setting(Continued)

- 2.5 Ensure that horizontal VIV rod and forked end are set up correctly for tare condition in accordance with sketch Appendix 'C', adjusting as necessary.
- 2.6 Adjust forked end of vertical control rod and reconnect to bell crank.

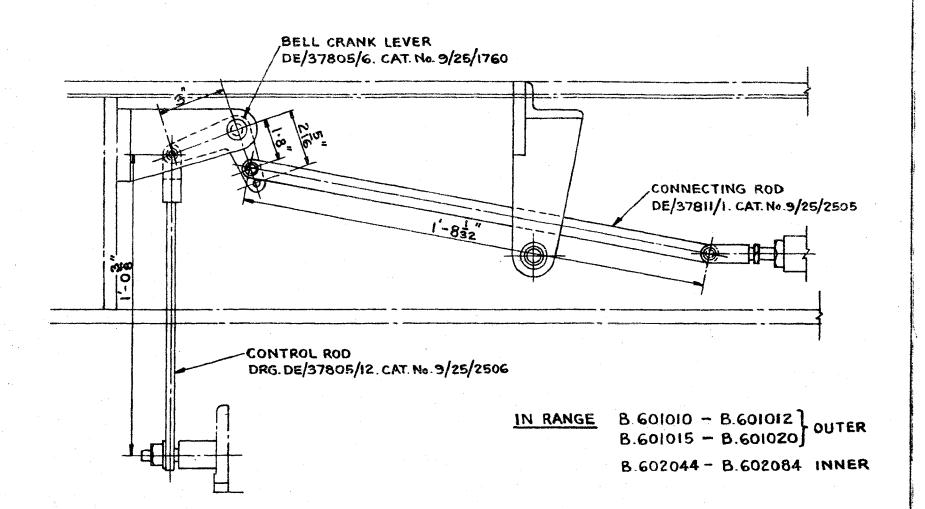
NOTE. For control rods with slotted forked end the pin must be at the top of the slot.

- * 2.7 Bar friction wedges downwards and remove retaining pins.
 - 2.8 Remove the air brake isolation.

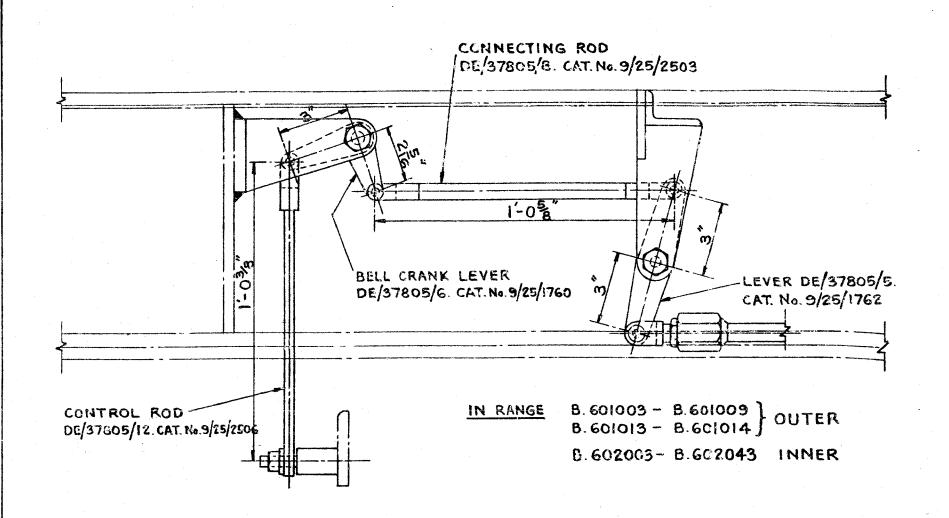
3. Testing.

- 3.1 Make a full service brake application and confirm that brake cylinder pressure is between 16 and 18 lbs/sq.in.
- 3.2 If brake cylinder pressure does not fall within these limits the variable load valve must be changed and item 2 repeated.

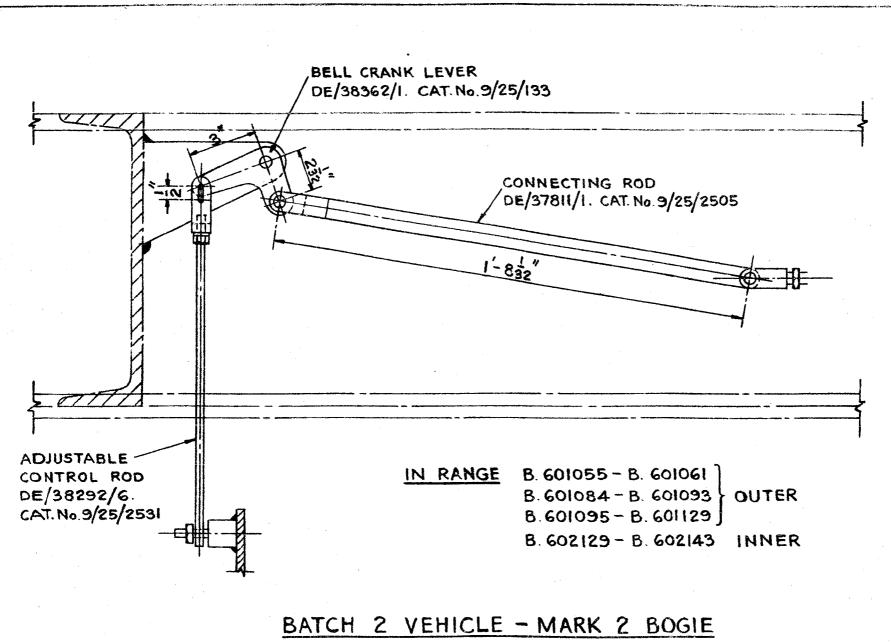
M & E.E(Carriage & Wagon) on behalf of Chief Mechanical and Electrical Engineer, London Midland Region.



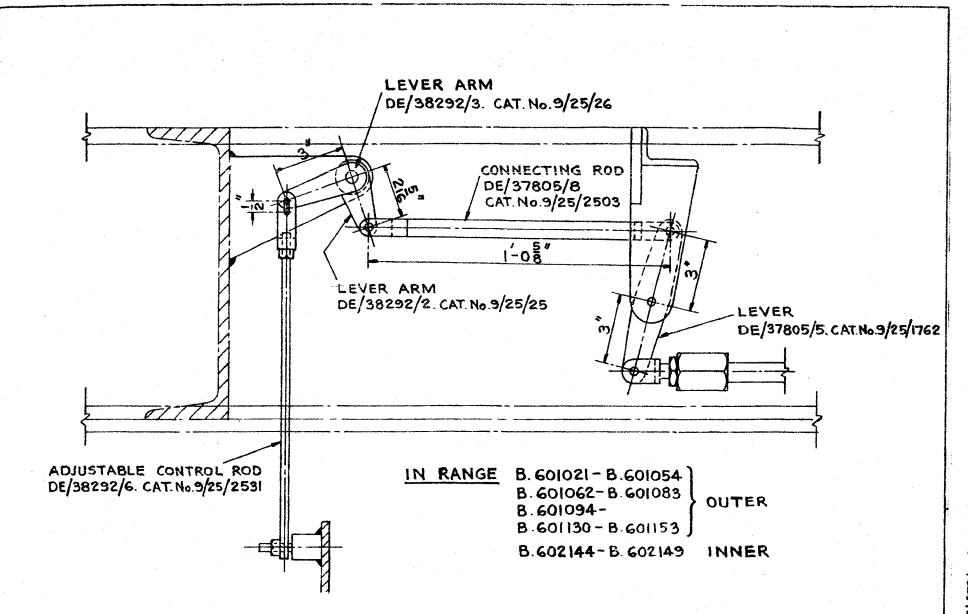
BATCH | VEHICLE - MARK | BOGIE DAVIES & METCALFE EQUIPMENT



BATCH I VEHICLE - MARK I BOGIE WESTINGHOUSE EQUIPMENT

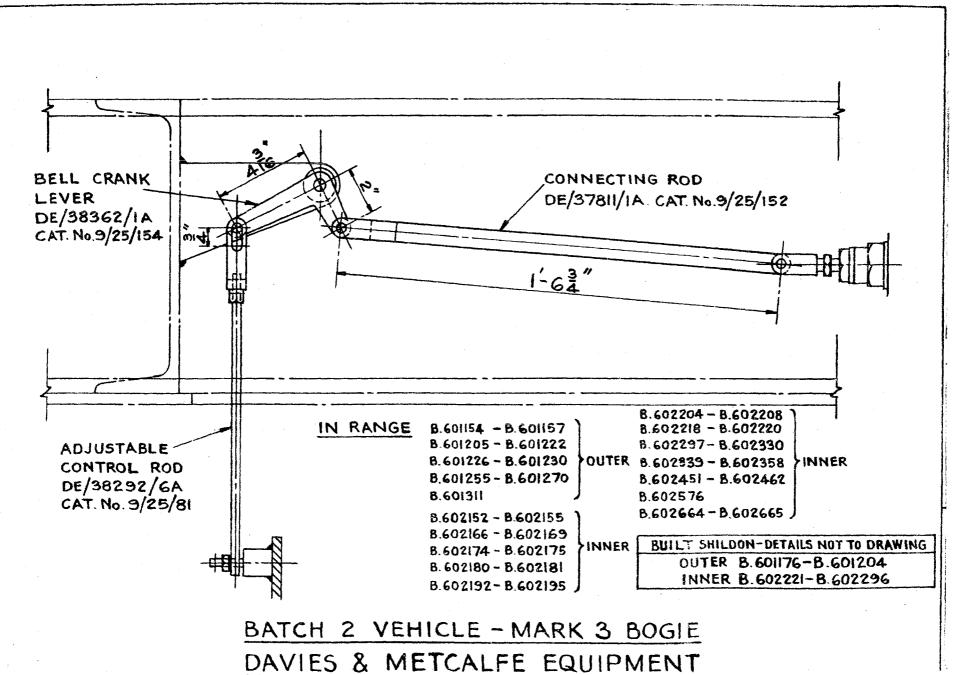


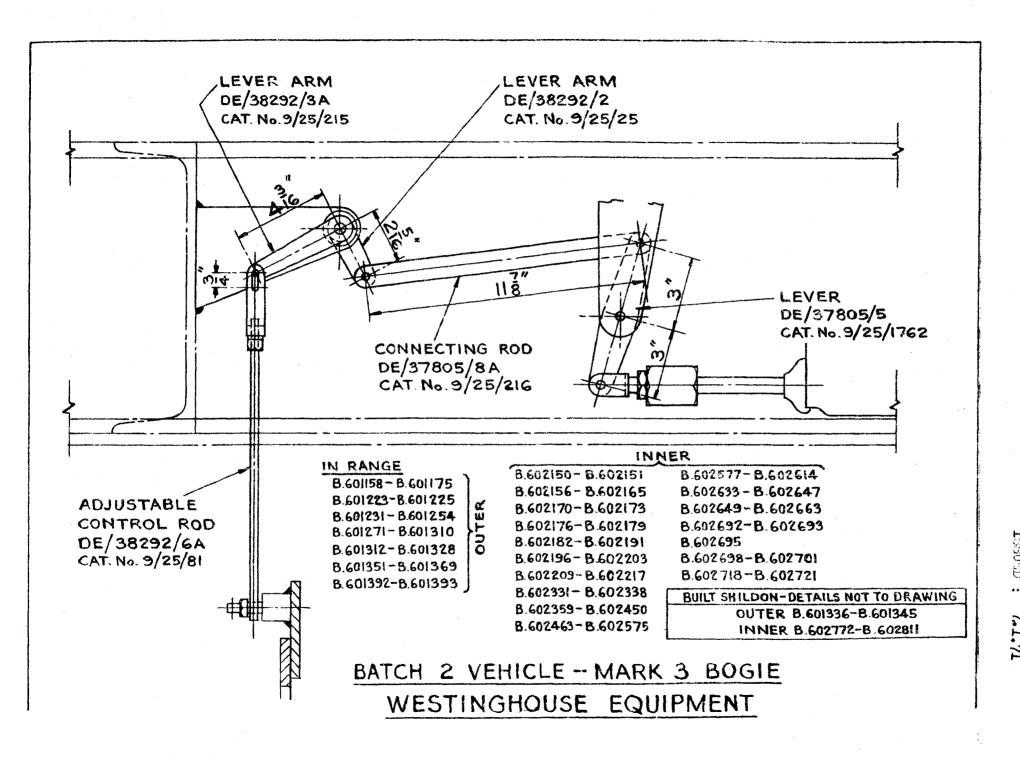
DAVIES & METCALFE EQUIPMENT



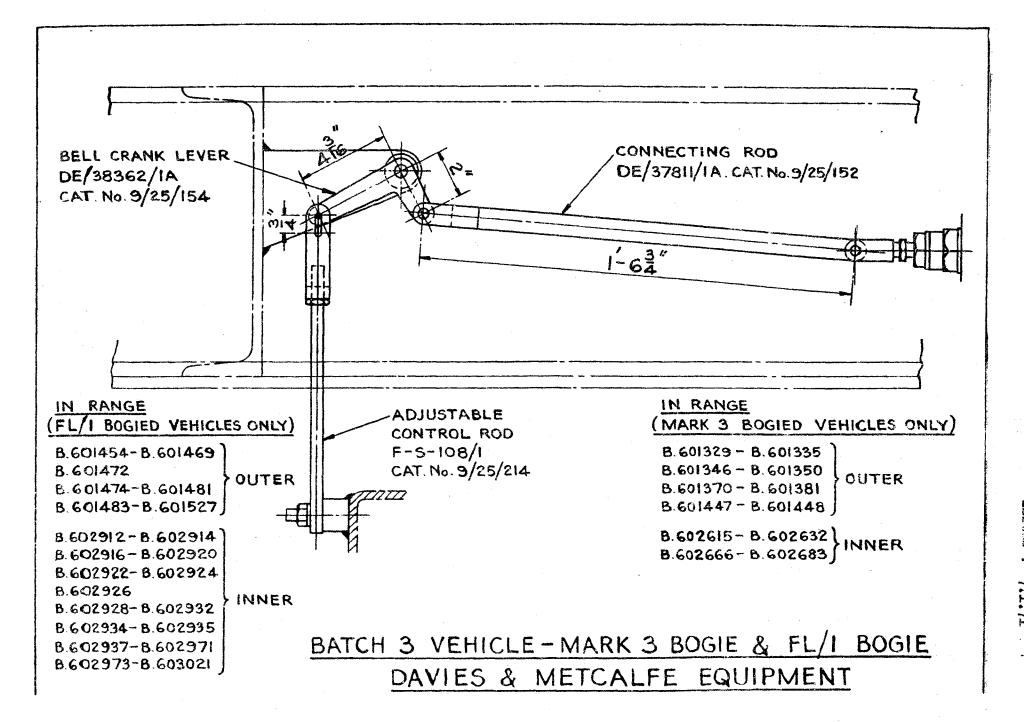
BATCH 2 VEHICLE - MARK 2 BOGIE
WESTINGHOUSE EQUIPMENT

APPENDIX 'A' SHEET NO.4
TO STAIDING ORDER FSM.20F
ISSUED : 7.1.71

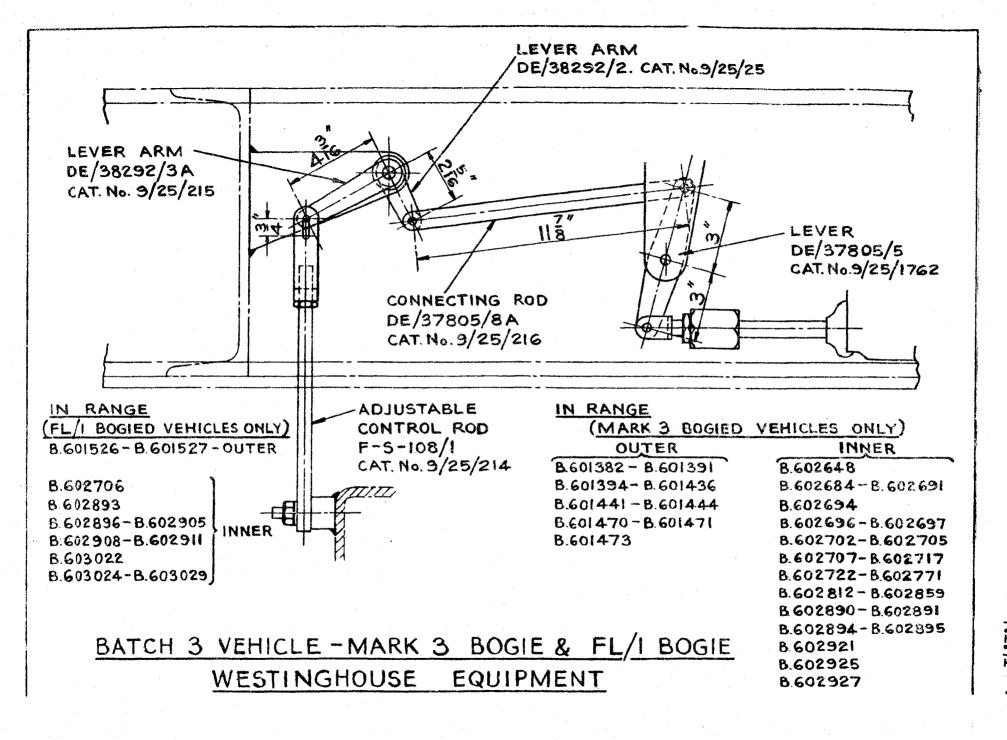




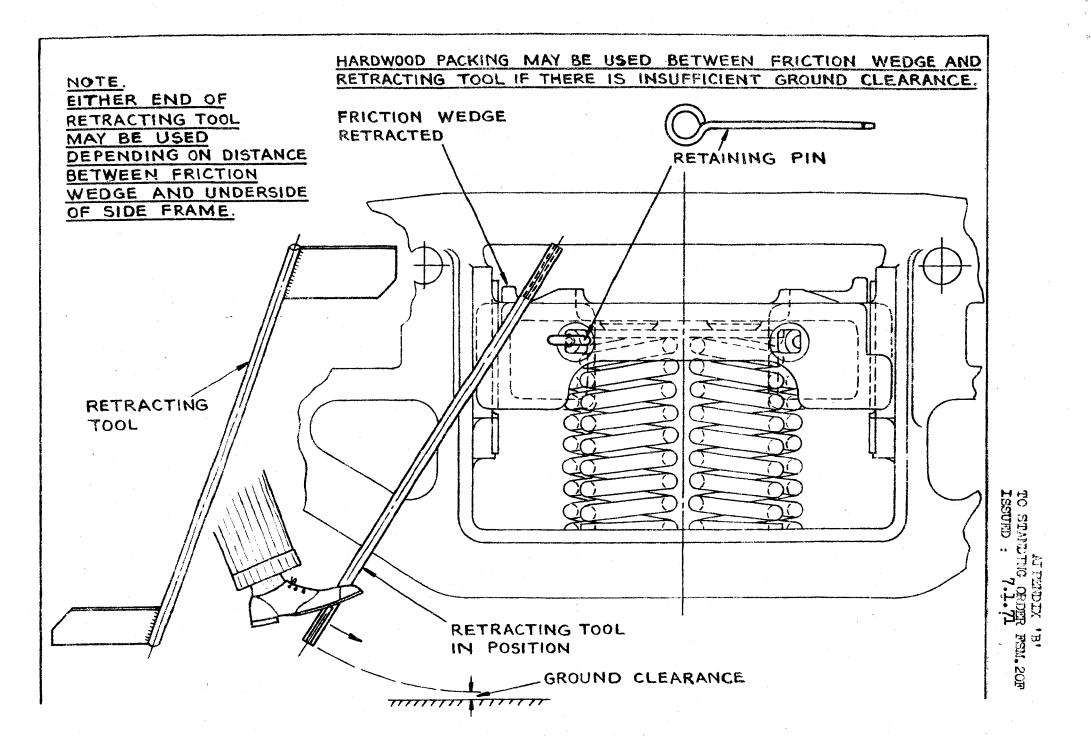
APPENDIX 'A' SHEET NO. 6
TO STATISTING ORDER FSM. 20

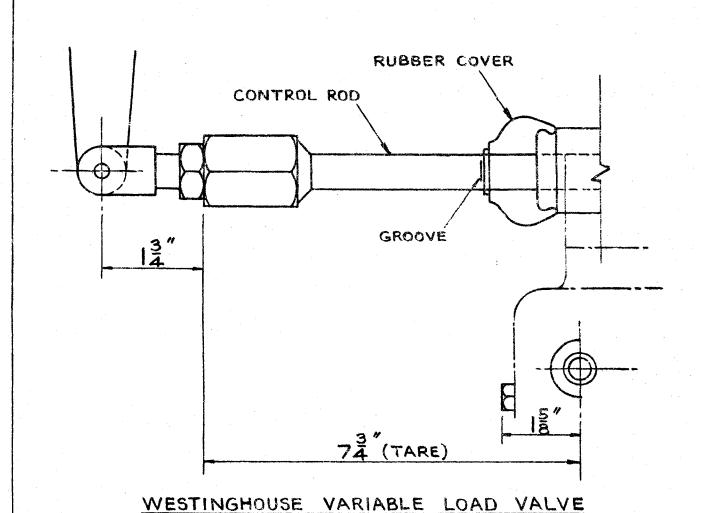


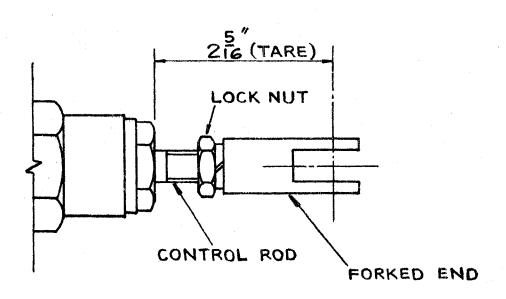
TO STANDING ORDER FSM. 201
ISSUED - 7.1 71



APPENDIX 'A' SHTET NO.8 TO STANDING ORDER FSM.201 ISSUED : 7.1.71







DAVIES & METCALFE VARIABLE LOAD VALVE