

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
RESEARCH DESIGNS & STANDARDS ORGANISATION

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No.EL/3.1.3/J-5

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MODIFICATION SHEET NO.WAM4/144

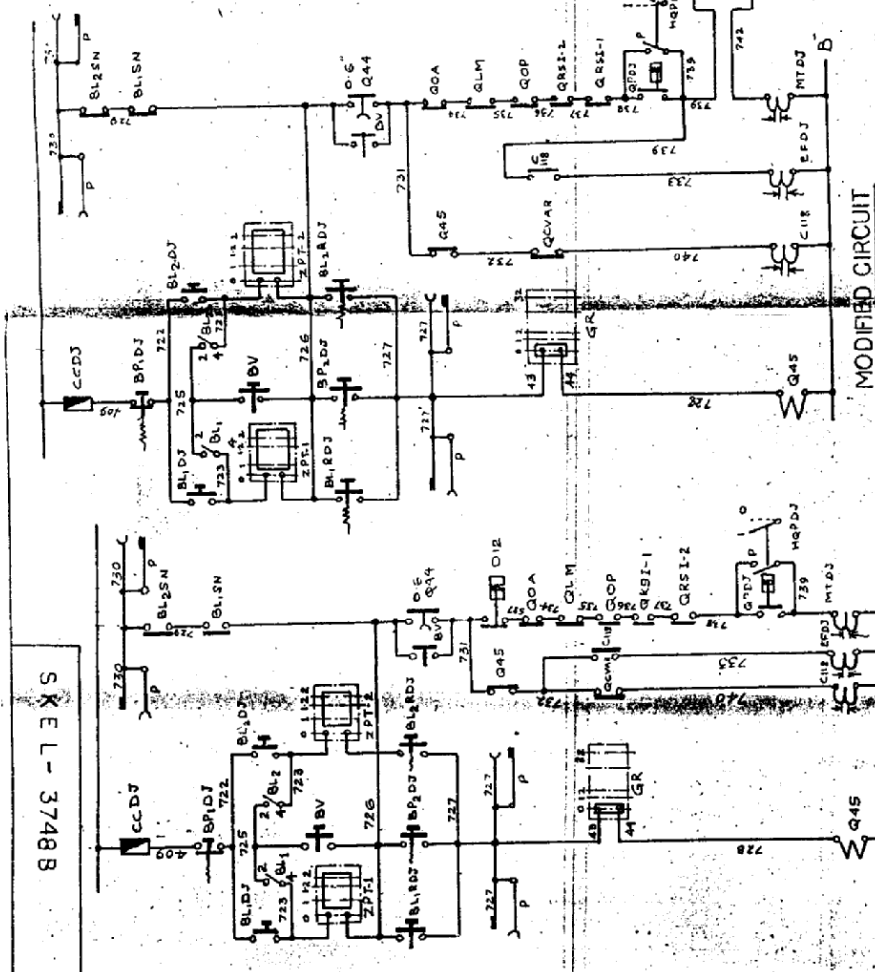
MODIFICATION IN DJ CONTROL CIRCUIT ON  
AC LOCOMOTIVES

1. OBJECT

- 1.1 In AC Electric Locomotives QPDJ contact is provided in the MTDJ branch. With this provision ~~even~~ even if RDJ pressures are low, with pressing of BLRDJ and BLDJ keys, DJ closes momentarily and then opens out giving rise to avoidable switching surges which lead to flashing of ET2 and consequently tripping of OCBs at substations. Similar situation occurs when there is fault, causing tripping through any of the relays - QOA, QOP, QLM, QRSIs. This draft modification sheet gives the modification necessary in the loco control circuit to overcome this problem.
- 1.2 To overcome above problem feed to BFDJ coil has been taken after the relays/QPDJ interlocks. The original and modified circuits are shown in attached RDSO drawing No.SKEL-3743-B.
- 1.3 RMTDJ resistance has been provided to limit voltage and current across MTDJ relay coil. Q45 has been provided to be closed in the begining only. HQPDJ contact or HGE switch shall be closed by the driver in case of open circuiting of the RMTDJ resistance, for clearing the section. Like the other failure driver shall note down the open circuiting of RMTDJ resistance in the Log Book.
- 1.4 HGE switch may be used on the locos where it is available for easy of connection viz. WAG4. On the other class of locomotives the interlock of HQPDJ switch shall be used.
- 1.5 This modification sheet superades the earlier modification Sheet No.WAM4/139 on the subject..

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44 M. S. Scher



EXISTING CIRCUIT

MODIFIED CIRCUIT

EXISTING CIRCUIT										REF. MOD/WAM <sub>4</sub> /139		SCALE	NTS.	APPLY_
										MODIFIED TRACTION CONTROL CIRCUIT				
										RD S.O.ELEC. DTE.				
										SKEL- 3748B				