

Government of India
Ministry of Railways
Research, Designs & Standards Organisation
Manak Nagar, Lucknow - 226 011

Ref: EL/3.1.3/E7

Dt. 23-04-1997

MODIFICATION SHEET No. RDSO/WAM4/41

1. **Title of modification:**
Provision of a by-pass resistance across QV 61 relay.
2. **Application to class of loco:**
WAM4 locomotives.
3. **Object of modification:**
There is a possibility of reverse leakage current through the plucking diode of battery charger (CHBA) due to the battery potential being high enough to keep the relay QV 61 energised even when the battery charger has failed in service. This gives a false indication to the driver of CHBA being in healthy condition. the purpose of this modification is to overcome the problem.
4. **Modification Drawing No:**
RDSO SKEL-2633.
5. **Agency for modification:**
 - (i) Railways - all existing locomotives
 - (ii) Chittaranjan Locomotive Works - Locomotives
6. (a) **Material required and specification:**
1800 Ohms - 5 Watt wire wound resistance to IS: 3373.
(b) **Material rendered surplus:**
Nil

7. **Work to be carried out:**

A resistance of 1800 Ohms 5 Watts is to be provided in parallel with QV 61 relay coil to provide a shunt path for the diode reverse leakage current.

8. **References**

Minutes of the Seventh Maintenance Study Group (Electric Loco) meeting (Para 1.3.2) held at Chittaranjan Locomotive Works, in July 1976.

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(B. S. SIDHU)
for Director General (Elec)



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