

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

Ref: EL/3.1.3/E7

June 1977

MODIFICATION SHEET NO. RDSO/WAM4/46

1. **Title of modification**
Modification to traction motor EP line contactor (Type 3421-212M).
2. **Application to class of locos**
WAM4 locomotives.
3. **Object of modification**
There have been a number of cases of failure of traction motor line contactors due to breakage of flexible shunts. To minimise such failures, it is proposed to rectify the roller arm by brazing a copper shim of suitable thickness so as to ensure a distance of 47 mm between the roller arm heel and pivot point as indicated in the drawing SKEL-2587.
4. **Modification drawing No.**
RDSO SKEL-2587
5. **Agency for modification**
 - (i) Railway on all the existing locomotives.
 - (ii) Chittaranjan Locomotives Works-on locomotives under production till the contact is replaced by an improved design.
6. **Agency for modification**
 - (a) Material required
Rupatum - 43 solder
Rupatum flux
Copper shim - 1
 - (b) Material rendered suuplne
Nil

7. **Work to be carried out**

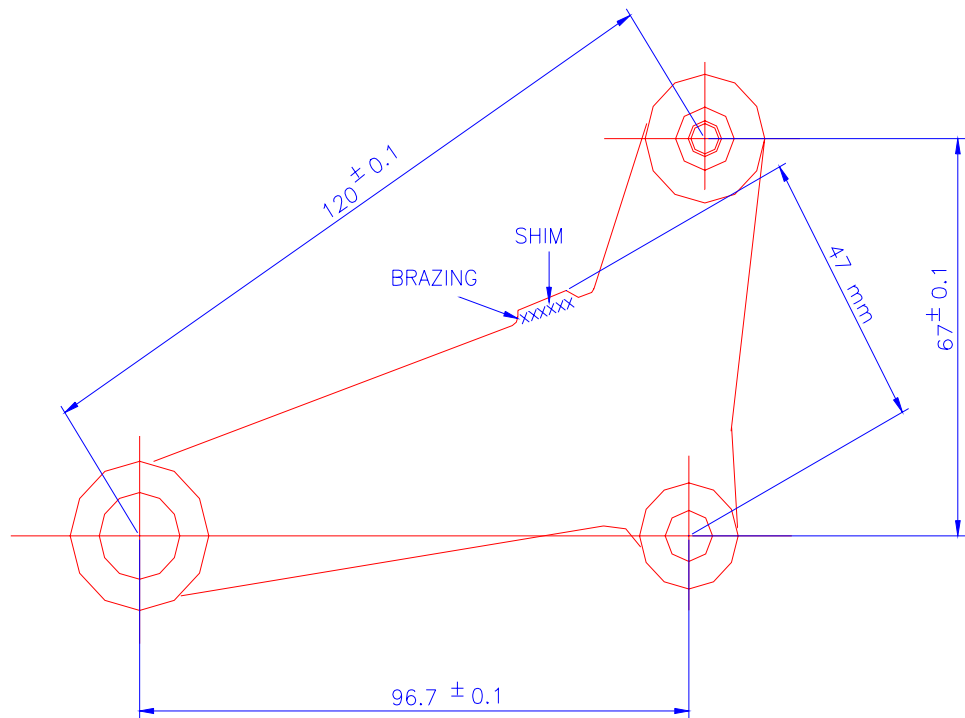
Clean both the surface to be brazed, that is the shim and the roller arm with smooth file or emery paper. Heat the shim and the roller arm in position to dull red heat using oxyacetylene flame. Braze the two components together along the full length of the joint using Rupatum 43 solder and flux.

8. **Reference**

8TH Maintenance Study Group (Electric Loco) meeting.

-Sd-

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



REF:—	CLW 3TWD. 112 023	SCALE:— 1:1	APPROVED BY:— sd D.K. Bansal
ROLLER ARM (E.P. CONTACTOR) MOD. NO. R.D.S.O./WAM4/46			
R.D.S.O.		SK.EL-2587	

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