

टेलैक्स : 0535-2424 RDSO-IN
फैक्स : 91-0522-458500
तार : 'रेलमानक' लखनऊ
Telegram : 'RAILMANAK', Lucknow
टेलीफोन/Tele : 451200 (PBX)
450115 (DID)



भारत सरकार - रेल मंत्रालय
अनुसंधान अभिकल्प और मानक संगठन
लखनऊ - 226 011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
LUCKNOW - 226 011



No.EL/3.2.172

Dated 30.10.2000

MODIFICATION SHEET NO. ELRS/MS/0300-2000 Rev '0'

1. **TITLE** : Adoption of modified earthing brush assembly on traction motor type HS 15250A.
2. **OBJECT** : It has been reported by Railways that earthing brush assembly on Hitachi traction motor type HS 15250A is not being provided on all the traction motor suspension tube assembly due to thefts since this assembly is of non-ferrous material.

The earthing brush assembly is a very important part of the traction motor assembly and is to be provided essentially on all the axles to avoid passage of current through the taper roller suspension bearings. It has been noticed that some of the taper roller suspension bearings have been damaged along with the suspension tube due to passage of current through these bearings due to non-availability of earthing brush assembly.

To avoid the theft of the earthing brush assembly, it has been decided to change the material of earthing brush body from bronze to steel. The modified earthing brush assembly has been developed by M/s Elco Enterprises, Calcutta. The weight of the modified earthing brush assembly has been reduced by about 20% and cost is expected to be half of present design.

Railways are therefore advised to procure the modified earthing brush assembly as per the RDSO drawing No. SKEL 4566 Rev 'O' and all the deficiencies on Electric Locomotives may be made good urgently to avoid failure of costly taper roller suspension bearings and its suspension tube from damages.

3. **WORK TO BE CARRIED OUT** :

- a) Remove the existing earthing brush assembly.
- b) Check the condition of earthing brush.
- c) Refit the modified earthing brush assembly procured as per RDSO Drg. No. SKEL 4566 Rev 'O' along with the earthing brush as per usual process.

4. **APPLICATION** : All Electric Locos fitted with TM type HS 1050Er / HS 15250A.

5. MATERIAL REQUIRED : Modified Earthing Brush Assembly as per RDSO Drg. No. SKEL 4566 Rev '0' to make good the deficiency of the same in the system.

6. MATERIAL RENDERED SURPLUS : Nil

7. REFERENCE : RDSO Drawing No. SKEL 4566 Rev '0'.

8. PERIODICITY OF IMPLEMENTATION : During schedule inspections.

9. AGENCY OF IMPLEMENTATION : a) All Electric Loco Sheds.
b) All POH Work Shops.
c) All Traction Motor Manufacturers.

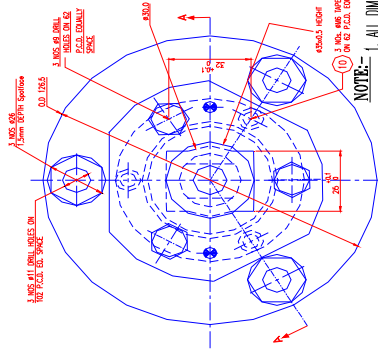
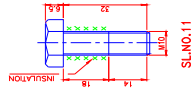
10. SOURCES OF SUPPLY :

- (I) M/s ELCO Enterprise, 2/34, Dum Dum Road, P.O. Cossipore, Calcutta 700 002.
- (II) M/S Mica-Mold, P.O. Sunder Nagar, Jamshedpur 832107 - (Under development).

11. DISTRIBUTION : As per enclosed list.

Encl: RDSO Drawing No.
SKEL 4566 Rev '0'


(R K Kulshrestha)
for Director General (Elec)



REF.		SCALE; NTS	APPROVED BY <u>Ray Hume</u> (For DG)
------	--	------------	---

TOTAL Wt. Z. / kg (approx)			
-	-	-	-

	RSO ELECT DTE.	SKEL-4566 Rev.'0'	SUPERSEDED BY	CONNECTION
--	----------------	----------------------	---------------	------------

[illegible]

111