

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
RESEARCH DESIGNS & STANDARDS ORGANISATION  
*Manak Nagar, Lucknow-226011*

No.EL/3.2.100

Dated: 18.08.2004

All CEEs

**Modification Sheet No. ELRS/MS/0329 (Rev '0')**

**1. Title :**

Replacement of Hitachi Traction motor Brush holder spacers for HS15250A Traction Motor made of brass with PTFE.

**2. Object :**

Presently, brush holder spacers for Hitachi HS15250A Traction Motor are made of brass. When these spacers get worn out on inner dia leading to enlarged inner diameter, they become prone to cause flashover due to proximity to commutator. In order to avoid such cases of flashovers, it is proposed to replace the brass spacers with those made of PTFE.

**3. Existing arrangement with cross-references of respective design document:**

Presently brass spacers are being used in Hitachi Traction Motor Brush Holder Assembly as per Hitachi Drg. No. 10T 806 971.

**4. Modified Arrangement to replace existing arrangement as given above in 3.0**

PTFE spacers in place of brass spacers as per Hitachi Brush Holder Assembly RDSO Drg. No. SKEL 4683.

**5. Application to Class of locomotive : WAP4, WAG7 & WAG5 fitted with Hitachi TM No. HS 15250A.**

**6. Material Required :**

PTFE spacers as per RDSO's Drawing No. SKEL 4683.

7. **Material rendered surplus** : Brass spacers

8. **Reference** : Hitachi Drg. No. 10T 806 971.

9. **Modification Drawing** :

(i) RDSO's Drawing No. SKEL 4683.

(ii) Suitable alteration may be made by CLW in their respective Drawing.

10. **Agency of Implementation** :

- All POH Shops
- All Repair / TM Shops
- All TM manufacturers.
- Electric Loco sheds
- BHRR and Brush Holder.

11. **Source of Supply** :

From CEE's approved sources for similar items.

(M.K.Singhal)  
for Director General/Electrical