

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

Dated 1.12.82

**Sub:- Relocation of both the Existing rubber stoppers supporting panto,s
pan to new position under the upper articulation tube.**

Ref.No.EL/2.2.1/JCG

MODIFICATION SHEET NO. RDSO/WAM4/129

1. Object of Modification:-

Railways have reported a number of cases of cracking of top mounting fittings supporting the panto pan on both sides. It was observed that this mounting is getting cracked due to excessive vibrations and jerking force coming on it during

- (i) Panto in lock down condition resting on two existing rubber stoppers/or
- (ii) at the instance of touching the existing stoppers during lowering.

It is, therefore, decided to relocate these two rubber stoppers on the panto base frame to support both the longitudinal tubes near the top mounting fitting to avoid the jerking/vibrating force coming on it.

2. Work to be carried out:-

Both the rubber stoppers will be relocated and fixed. with the help of nut and washers on the mounting clamps fitted on the base frame. The height of the clamp and number of washers inserted between clamps and stopper must be suitably chosen so as to support both the longitudinal tubes properly in the locked down conditions as shown in the drawing No, SK. EL.-3522. endorsed.

APPLICATION:-

On all the ac locos and EMUs fitted with pantograph type AM12.

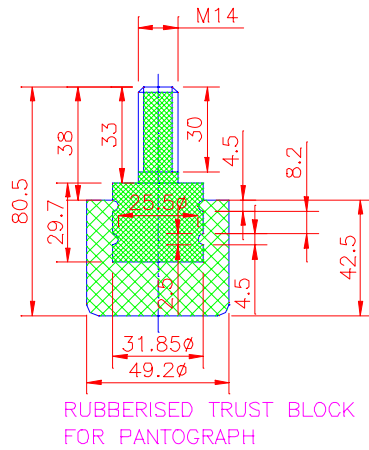
- 3. **Material required** :- NIL.
- 4. **Material surplus** :- NIL
- Reference :- Modificationdrg.No.
BSL/TRS/WAM4/Mod/3 issued by Sr. DEE
(TRS), Bhusaval, Central rly.
- 5. **Modification Drg.No** :- RDSO/SK. EL.-3522.
- 6. **Agency for implementation** :- All the sheds and shops holding are electric locos and EMUs fitted with AM-12 pantograph.
- 7. **Distribution** :- As per enclosed list.

Encls/ As above

Jain.

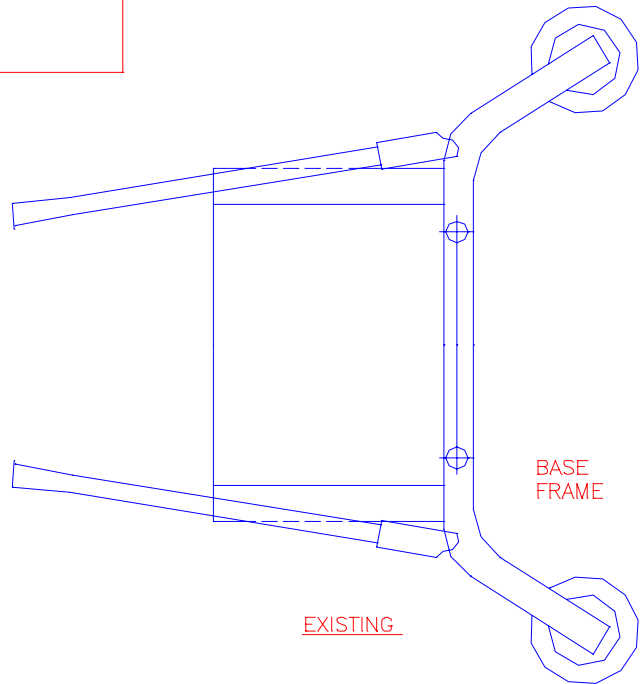

For Director General (Elect.)

SKEL-3522

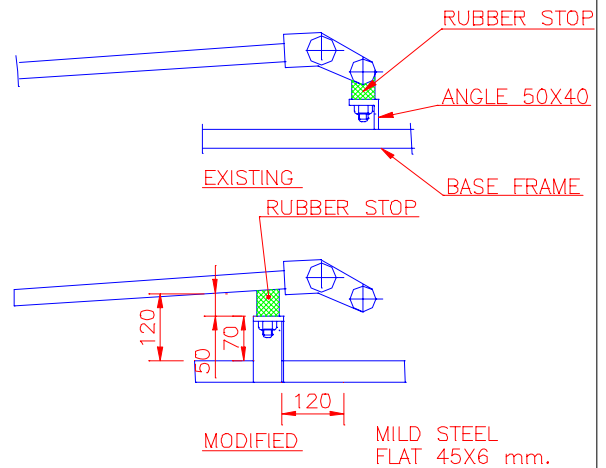


NOTE:- *

WASHER MAY BE ADDED SUITABLY TO KEEP THE SUITABLE HEIGHT OF THE STOPPERS TO SUPPORT THE UPPER ARTICULATION TUBE.



EXISTING



REF :-DRG.NO. BSL/TRS/WAM₄ /
MOD./3

SCALE:-1:10,1:2

APPROVED:- Sd

RELOCATION OF RUBBER STOPPRER UNDER THE UPPER
ARTICULATION TUBE OF AM-12 PANTOGRAPH

RDSO.ELEC. DTE.

SKEL-3522

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