

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

Ref : EL/3.1.3/E7

Dated : 29th Aug , 1977

Modification Sheet No. RDSO/WAM4/52

1. Title of modification :

Fastening RGR and CGR support plates on tap changer assembly No. 32.

2. Application to class of Locos :

WAM4 locomotives.

Note. Applicable in principle, to all class of ac and ac/dc locomotives where N-32 tap changers are used. This modification may be carried out on locos other than WAM/4 also if failures etc. as mentioned in para 3 below are observed.

3. Object of modification :

Vibrations of high amplitude have been recorded on the tap changer CGR assembly of WAM4 locomotives while running at higher (above 80 kmph) speeds, causing damages to the tap changer assembly electrical connections. It is proposed to make CGR assembly more rigid by providing additional support between CGR and RGR assemblies to reduce the vibrations.

4. Modification drawing :

RDSO SK EL 2650

5. Agency for modification :

1. Railways : WAM4 locomotives

2. Chittaranjan Locomotive Works.

Locomotive under
production.

6. a) Material required and specification :

RDSO drawing No. SKEL 2650

b) Material rendered surplus :

Existing RGR support plates will be rendered surplus if new plates are manufactured. The existing support plate may however be re-used by welding additional plate to it as shown in the drawing.

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

The existing RGR support plates should be replaced by a modified plates to RDSO drawing. The lifting hook of CGR assembly should be fixed over the CGR support plates. The CGR and RGR support plates on both sides should be connected by a strut. The nuts should be suitably adjusted and tightened to ensure that there is no stress on CGR and RGR supports. All the four support plates shall be protected against corrosion/rusting by two coats of paints. The entire surface of both the struts except the fastening arrangement shall be painted with anti-paint.

8. **Reference**

9. **Distribution :**

Secretary (Elec Traction), Railway Board, New Delhi.

General Manager (Electrical)

Central Railway, Bombay VT

Eastern Railway, Fairlie Place, Calcutta

Northern Railway, Baroda House, New Delhi.

South Eastern Railway, Garden Reach, Calcutta

Western Railway, Churchgate, Bombay

Chittaranjan Locomotive Works, Chittaranjan, W. Bengal

Superintendent Workshop

Eastern Railway, Kancharapara

Dy. Chief Elec. Engineer

Central Railway, POH shop, Bhusaval

Eastern Railway, Kancharapara

Dy. Chief Elec. Engineer (Design)

Chittaranjan Locomotive Works, Chittaranjan

Senior Divisional Elec Engineer (TRS)

Central Railway, Kalyan

Eastern Railway, Asansol/Mughalsarai

Northern Railway, Kanpur

South Eastern Railway, Tatanagar/Bhilai

Divisional Elec Engineer (TRS)

Central Railway, Bhusaval

Northern Railway, Ghaziabad

Western Railway, Baroda (Gujarat)

Dy. Director Inspection (Elec)/RDSO

C/o Chittaranjan Locomotive Works, Chittaranjan,
W. Bengal.

(S. Malaviya)
for Director General/Elec

