

SN-194

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
RESEARCH DESIGN AND STANDARDS ORGANISATION  
MANAK NAGAR ,LUCKNOW-226011

No.EL/3.141

Dt 31.7 2002

2.8

Chief Electrical Engineer,

1. Central Railway, Mumbai-CST-400 001.
2. Eastern Railway, Fairlie Place, Kollata-700 001
3. Northern Railway, Baroda House, New Delhi-110 001.
4. Southern Railway, Park Town, Channai-600 003.
5. South Central Railway, Rail Nilyam, Secunderabad-500371.
6. South Eastern Railway, Garden Reach , Kolkata-700 043.
7. Western Railway, Church Gate, Muimbai-400 020.
8. Chittaranjan Locomotive Works, Chittaranjan -713 331.

**SPECIAL MAINTENANCE INSTRUCTION NO.RDSO/ELRS/SMI/0227/2002**  
**Rev. 0**

1. **TITLE :**

Maintenance instructions in regard to link , compensating and equalising beam of WAG7 , WACM3 & WCAG1 loco bogie.

2.0 **OBJECT:**

2.1 To check against failures of link, compensating / equalising beam of high adhesion bogie.

2.1.1 The problem of breakage of link assembly on WAG7 and WCAM3 loco were reported by S.E.Rly. and C.Rly. The matter was investigated and it is found that the failure had emanated from the heat affected zone of link having weld metal deposits .

2.1.2 The design of the link was checked by MP Dte of RDSO and it is confirmed vide MP Dte letter no.SV.WAG7 Dt.1.7.2002, that the link design is adequate.

3.0 **INSTRUCTIONS:**

3.1 Reclamation of link by welding is not permitted. Hence in case of wear of link or of compensating beam/equalising beam , it should not be reclaimed and should be replaced with new.

3.2 The link , compensating , equalising beam reclaimed by welding and running on locomotives to be replaced with new ones.

- 3.3 The vertical gap between fork of compensating /equaliser beam and the link indicates the wear on pin and bush. The gap should not exceed 3mm (corresponding of 1.5mm wear of bush/pin) during service. If it exceeds, the assembly be opened and worn out bush /pin to be replaced.
- 3.4 Wear on the pins and bushes of compensating beam, link and equalising beam to be Controlled by providing lubrication arrangement as per RDSO Modifications sheet No.ELRS/MS/0307/2001 Rev.0 vide letter no.EL/3.2.13/6 dt.26.9/5. 0.2001.
- 3.5 The unmodified compensating beam still in service should be replaced by modified compensating beams as per RDSO MP Dte Drg no. SKDL.4187 Alt.3.

#### 4.0. APPLICATION

Link compensating and equalising assembly of WAG7, WCAM3 & WCAG1 loco's fitted with high adhesion bogie.

#### 5.0 AGENCIES OF IMPLEMENTATION

All Electric Loco Shed & workshop.

#### 6.0 PERIODICITY OF IMPLEMENTATION.

As per clause 3.0 above,.


#### 7.0 REFERENCE :

- i) RDSO, MP Dte letter no.SV.WAG7 dt.1.7.2002.
- ii) Modification sheet No.ELRS/MS/0307/2001 Rev.0 issued vide letter No.EL/3.2.13/6 Dt.26.9/5.10-.01
- iii) RDSO MP Dte Drg.No.SKDL-4187 Alt.3.

#### 8.0 DISTRIBUTION

As per mailing list no.  
EL/M/0028 Version 1.

DA: Nil.

  
(Ram Prakash)  
for Director General/Elect.