

GOVERNMENT OF INDIA, MINISTRY OF RAILWAYS
RESEARCH DESIGNS & STANDARDS ORGANISATION

KANAK NAGAR, LUCINON-226 011

Ref: EL/3.1.3/DA2

Dated: 3.9.81 August 1981

MODIFICATION SHEET NO. RDSO/WAL4/119

MODIFICATION TO HEADLIGHT CIRCUIT

1. Object of Modification:

The existing headlight circuit could lead to the shorting of 32V and 16V taps of the headlight transformer by simultaneous operation (inadvertent or intentional) of the headlight switches in both the cabs. Such eventuality could result in damage to the headlight transformer. The modified circuit provides for the safety of headlight transformer under such abusive operations of the headlight switches in the non-operative cab.

2. Work to be carried out:

The headlight circuit is to be modified as per RDSO drawing No. SK.EL-3422 to avoid short circuiting of 32V tap with 16V tap of headlight voltage stabiliser.

3. Application to class of Locomotives:

WAL4, WAL-4B, WAL-4C, WAL4 (6P) and WAP1, as applicable.

4. Material required:

About 2.5 metres 3mm² control cable and 6 Nos. cable sockets.

5. Material rendered surplus:

Nil.

6. Reference:

CLM's Letter No. RDD/3201 dated 20.7.1981.

7. Modification Drawing:

RDSO drawing No. SK.EL-3422.

8. Agency for Implementation:

- (i) OLM - For locomotives under production.
- (ii) Railway - for locomotives in service.

9. Distribution:

As per List attached.

Encl: One Drg.No. SM.EL-3422.

(A. S. Thakur)
for Mhs. Nidoshak (Vidyut)

ENC
22.3.31

DISTRIBUTION LIST

1. Secretary (Elec Traction), Railway Board, Rail Bhavan,
New Delhi-110 001

2. Chief Electrical Engineer,

~~Central Railway, Bombay VI - 400 001~~

~~Eastern Railway, Fairlie Place, Calcutta-700 001~~

~~Northern Railway, Baroda House, New Delhi-110 001~~

~~Southern Railway, Madras-600 003~~

~~South Central Railway, Rail Niyam, Secunderabad-500371~~

~~South Eastern Railway, Garden Reach, Calcutta-700 043~~

~~Western Railway, Churchgate, Bombay-400 020~~

① ~~Chittaranjan Locomotive Works, Chittaranjan-713 331~~

3. Addl Chief Electrical Engineer, Tanchrapara Shops,
Eastern Railway, Tanchrapara-743 145 (H. Bengal)

4. Deputy Chief Electrical Engineer (POH), Elec.Loco POH Shops,
Central Railway, Bhusaval-425 201

② ~~5. Deputy Chief Electrical Engineer (Ins), Chittaranjan
Locomotive Works, Chittaranjan-713 331~~

③ ~~6. Dy. Chief Electrical Engineer (Dev), Chittaranjan Locomotive
Works, Chittaranjan-713 331~~ /Works,

7. Dy. Chief Electrical Engineer (TRS), South Eastern Railway,
Tatanagar-331 002 (Bihar)

8. Dy. Chief Electrical Engineer, Traction Machine Workshop,
Central Railway, Nasik Road-422 001 (Maharashtra)

9. Senior Divisional Electrical Engineer (TRS), Elec Loco Shed,

~~Central Railway, Kalyan-421 301~~

~~Eastern Railway, Hughladsrai-232 101~~

~~Eastern Railway, Asansol-713 301~~

~~Northern Railway, Kanpur-203 001~~

~~Northern Railway, Ghaziabad-201 001~~

~~South Eastern Railway, Tatanagar-331 002~~

~~Bhilai Marshalling Yard/SE Rly, Bhilai-490 001~~

10. Divisional Electrical Engineer (TRS),

~~Electric Loco Shed, Central Railway, Bhusaval-425 201~~

~~Electric Loco Shed, Western Railway, Baroda-390 002~~

~~Electric Loco Shed, SE Railway, Waltair-530 004~~

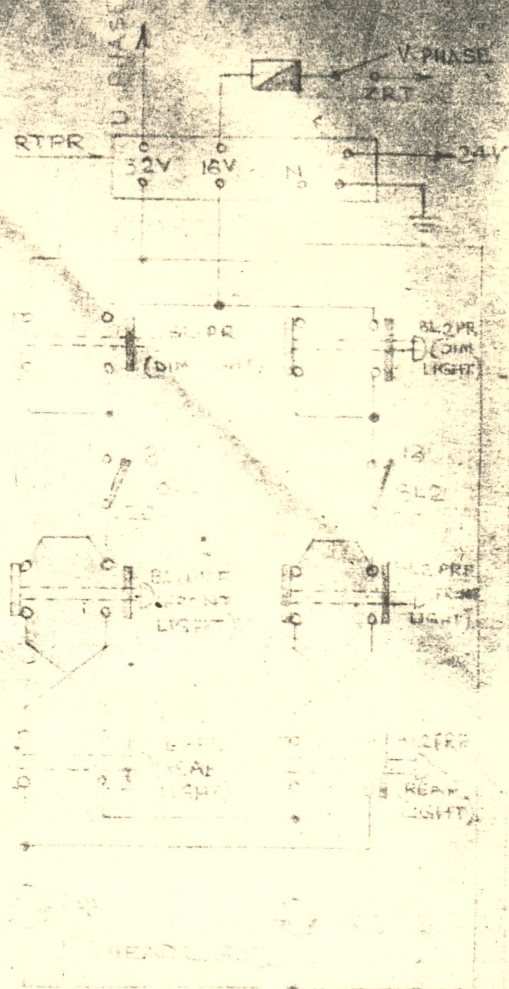
~~Electric Loco Shed, SC Railway, Vijayawada-520 001~~

④ ~~11. Joint Director Inspection (Elec)/RDSO, Chittaranjan Locomotive
Works, Chittaranjan-713 331~~

12. Deputy Director Inspection (Elec)/RDSO, C/o Bharat Heavy
Electricals Ltd., Block II, Anand-C.G., Room No. 11, Bhopal-462022

13. Asst Design Engr. (Documentation)/Elect. Etc., RDSO, Lucknow

MODIFIED CIRCUIT



REF	WAM4, WAM4B, WAM4C, WAM4BP & WAP,	SCALE NTS	APP. BY:
-----	--------------------------------------	-----------	----------

MODIFIED HEAD LIGHT CIRCUIT

RD 50446C DIA SKEL-34123