

SN - 112

Government of India
Ministry of Railways
RESEARCH, DESIGNS & STANDARDS ORGANISATION

No. EL/3.2.92/D4

Lucknow 226 C11
3 Dec 1977.

Modification Sheet No. RDSO/WAM4/60

M. Sheet ~~WAM4~~ - 60

1 Title of modification

Modification to reduce the overhang length of stator winding of compressor motor type K51d2/H supplied by M/s Hindustan Brown Boveri Ltd., Faridabad.

2 Application to class of locomotive

WAM4, WCG2 and WCAM1 class of electric locomotives.

3 Object of modification

Some failures of compressor motor type K51d2/H of M/s Hindustan Brown Boveri have been reported by the Railways in which the stator windings of the motor got burnt probably due to shorts in the overhang region. This was suspected to be due to poor ventilation caused by inadequate clearance for air flow. It was decided by M/s Hindustan Brown Boveri to reduce the overhang length of the winding by about 20 mm by modifying the Former dimensions. This helped to increase the clearance between the overhang and the end shield. M/s Hindustan Brown Boveri have been making coils for MCP type K51d2/H with the modified Former from motors S.No. 174097.

4 Modification Drawing No.

RDSO Sketch EL 2664.

5 Agency for modification

- i) All Electric Loco Sheds.
- ii) POH shops
- iii) Chittaranjan Locomotive Works to ensure that compressor motortype K51d2/H procured for locos under production and future builds from M/s Hindustan Brown Boveri are with the above modification.

6 (a) Material required and specification

The Formers may be manufactured from teak wood to IS: 5248 of 1969 or any other suitable wood as per revised dimensions in RDSO SK EL 2664.

(b) Material rendered surplus ; Nil

7 Work to be carried out

All motors type K5ld2/H2 under re-winding should be provided with coils of modified dimensions. If failure rate of machines is excessive, advance re-winding may be undertaken.

8 Distribution (2 copies each)

Secretary (Electric Traction), Railway Board,
New Delhi, 110 001.

Chief Electrical Engineer,
Central Railway, Bombay VT 400 001.
Eastern Railway, Fairlie Place, Calcutta 700 001.
Northern Railway, Baroda House, New Delhi 110 001.
Southern Railway, Madras 600 003
South Eastern Railway, Garden Reach, Calcutta 700 043.
Western Railway, Churchgate, Bombay 400 020
Chittaranjan Locomotive Works, Chittaranjan
(W. Bengal) 713 331.

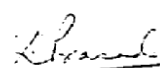
Senior Divisional Electrical Engineer (TRS)
Central Railway, Kalyan (Maharashtra)
Western Railway, Moghalsarai (U.P) 202 101
Eastern Railway, Asansol (W. Bengal) 713 301.
Northern Railway, Kanpur (U.P) 203 001.
South Eastern Railway, Tatanagar (Bihar) 331 002.
South Eastern Railway, Bhilai (M.P) 490 001

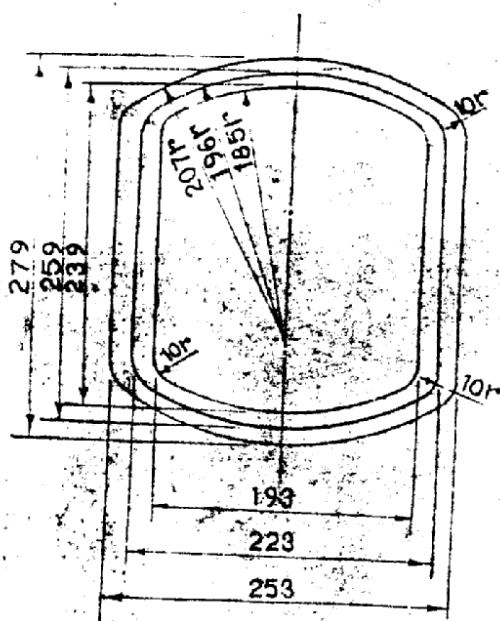
Divisional Electrical Engineer (TRS)
Central Railway, Bhusaval (Maharashtra) 425 201.
Northern Railway, Ghaziabad (U.P) 201 001.
Western Railway, Baroda (Gujarat) 390 002.

Deputy Chief Electrical Engineer, Kancharapara Shops,
Eastern Railway, Kancharapara (W. Bengal) 743 145.

Deputy Chief Electrical Engineer (POH),
Central Railway, Bhusaval (Maharashtra) 425 201.

Deputy Director Inspection (Electrical)/RDSO
c/o Chittaranjan Locomotive Works, Chittaranjan
(W. Bengal) 713 331.


(Lallan Prasad)
for Director General/Elec.



ALL DIMENSIONS ARE IN MM.

MODIFIED COIL FORMER DRAWING
FOR HBB COMPRESSOR MOTOR

TYPE K 514 / 11-5-53

APPROVED: *L. H. H.*

SCALE 1:1

REF. M/3 HBB 100

ORG. NO. 11-5-53

RDSO 1561