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अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226011  
Government of India - Ministry of Railways  
Research, Designs & Standards Organization,  
LUCKNOW - 226011

सं० ईएल / 3.1.35/2 Elect  
मुख्य विद्युत अभियन्ता

दिनांक: 02.01.2013

- पूर्व मध्य रेलवे, हाजीपुर-814 10
- दक्षिण पूर्व मध्य, रेलवे, बिलासपुर-495 004
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- उत्तर रेलवे, बड़ोदा हाऊस, नई दिल्ली-110 001
- मध्य रेलवे, मुम्बई सीएसटी -400 001
- दक्षिण मध्य रेलवे, रेल नितायम, सिकंदराबाद-500 371
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**विषय** Modification sheet to provide rubber sealing gasket in master controller of three phase locomotives.

उपरोक्त विषय पर इस कार्यालय के सहायक पत्र दिनांक 31.12.2012 की प्रति आवश्यक कार्यवाही हेतु इस पत्र के साथ संलग्न की जा रही है ।

संलग्नक: यथोक्त

( वी. के. सिंह )  
कृते महानिदेशक / विद्युत

प्रतिनिधि

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संलग्नक: यथोक्त

( वी. के. सिंह )  
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02.01.13

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भारत सरकार - रेल मंत्रालय  
अनुसंधान अभिकल्प और मानक संगठन  
लखनऊ - 226011  
Government of India - Ministry of Railways  
Research, Designs & Standards Organization,  
LUCKNOW - 226011

No. EL/3.1.35/2 Electrical

Date 31.12.2012.

**Chief Electrical Engineers,**

- East Central Railway, Hazipur - 844 101 (Bihar)
- South East Central Railway, Bilaspur-495 004.
- West Central Railway, Jabalpur 482 001.
- Northern Railway, Baroda House, New Delhi-110 001.
- Central Railway, 2<sup>nd</sup> floor, Parcel Office Bldg., Mumbai CST-400 001
- South Central Railway, Rail Nilyam, Secunderabad - 500 071.
- Eastern Railway, Fairlie Place, Kolkata -700 001.
- South Eastern Railway, Garden Reach, Kolkata-700 043
- Southern Railway, Park Town, Chennai-600 003
- Western Railway, Churchgate, Mumbai -400 020
- Chittaranjan Locomotive Works, Chittaranjan-713 331 (WB)

**MODIFICATION SHEET NO. RDSO/2012/EL/MS/0419, Rev. '0' Date 20.12.12**

**1.0 Title:**

Modification sheet to provide rubber sealing gasket in master controller of three phase locomotives.

**2.0 Object:**

Electric Loco shed/Ghaziabad have reported failures in master controller of three phase locomotive due to water/liquid ingress in the master controller through drive direction selector. This may be because of ingress of liquid/water kept by driver near the master controller as liquid/water may spill over due to loco vibration and can enter inside the drive direction selector. In order to eliminate such failures ELS/GZB has provided rubber sealing gasket below the drive direction selector provided on master controller as shown in Fig.3 of Annexure-1.

**3.0 Existing Arrangement with cross-references of respective design document:**

There is no rubber sealing gasket provided in the stud of drive direction selector as indicated in Fig.2 of Annexure-1.

**4.0 Modified Arrangement to replace existing arrangement as given above in 3.0:**

- 4.1** In order to provide rubber sealing gasket, the metal plate indicating TE/BE position is required to be taken out which can be done by removing

spherical ball and drive direction selector and then unscrewing four screws as shown in Fig.1 of Annexure-1. After removing the metal plate indicating TE/BE position, the stud of drive direction selector shall look as shown in Fig. 2.

- 4.2 Insert 30 X 30 mm<sup>2</sup> rubber sealing gasket (Fig.3 of Annexure-1). The sealing gasket for required size may be cut from a suitable rubber sheet of 5 mm thickness in the stud of drive direction selector as shown in Fig.4 of Annexure-1.
- 4.3 After inserting the gasket refit the metal plate indicating TE/BE position in its original place and tight four screws and refit spherical ball and drive direction selector handle.

Similarly insert rubber sealing gasket in other cab also.

5.0 **Application to class of locomotives:**

WAP-5, WAP-7, WAG-9, WAG-9H.

6.0 **Material Required:**

2 nos. of 30 X 30 mm<sup>2</sup> rubber sealing gasket of 5 mm thickness per loco.

7.0 **Material Rendered Surplus:**

Nil.

8.0 **Reference:**

Railway Board's letter no. 2011/Elect.(G)/145/3 dated 6.9.12.

9.0 **Modification Drawing:**

Photographs and drawings attached.

- 10.0 CLW to incorporate this modification in the specification of master controller of three phase locomotives.

11.0 **Agency of Implementation:**

CLW, POH work shops and Loco Sheds holding, 3-phase locomotives.

Encl: As Above .

*40/12/12*  
(Sandeep Srivastava)  
for Director General/Elect.

**Copy to:-**

**Secretary (Electric Traction), Railway Board,**  
Rail Bhavan, New Delhi-110 001.

**Sr. DEE (TRS), Electric Loco Sheds,**

- Central Railway, Ajni (Nagpur)-440008.
- South East Central Railway, BMY Complex, Bhilai, Durg-490 025.
- West Central Railway, Tughlakabad, New Delhi-110 044.
- Northern Railway, Ghaziabad (UP)-201 001.

- East Central Railway, Gomoh-828 401
- South Central Railway, Lallaguda, Secunderabad – 500 017.
- Eastern Railway, Howrah.
- South Eastern Railway, Tatanagar-831 002.
- Western Railway, Vadodara-390 002.
- Southern Railway, Royapuram, Chennai-600 013.

Encl: As above

*Sd/-* 31/12/12  
(Sandeep Srivastava)  
for Director General/Elect.

## Annexure-1

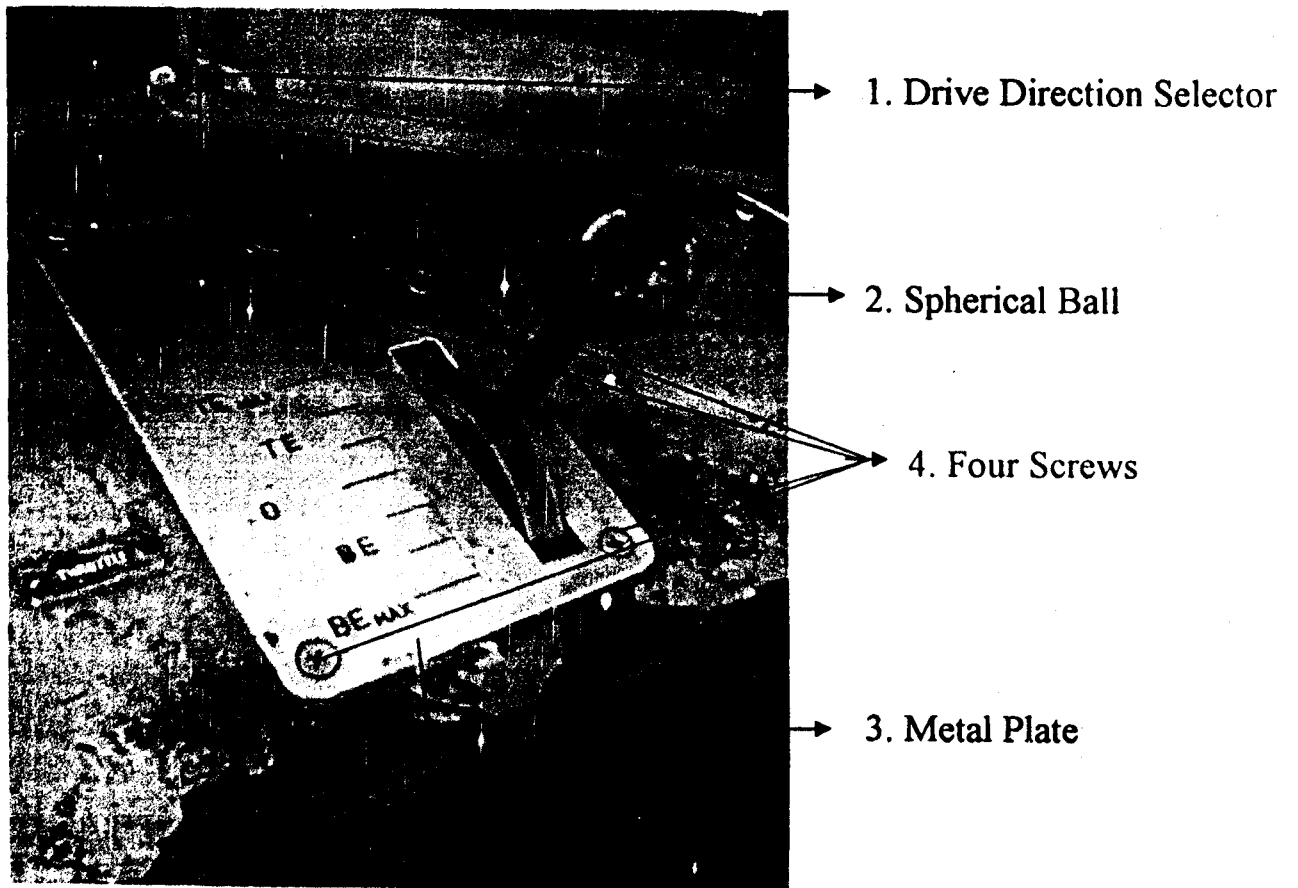


Fig.1

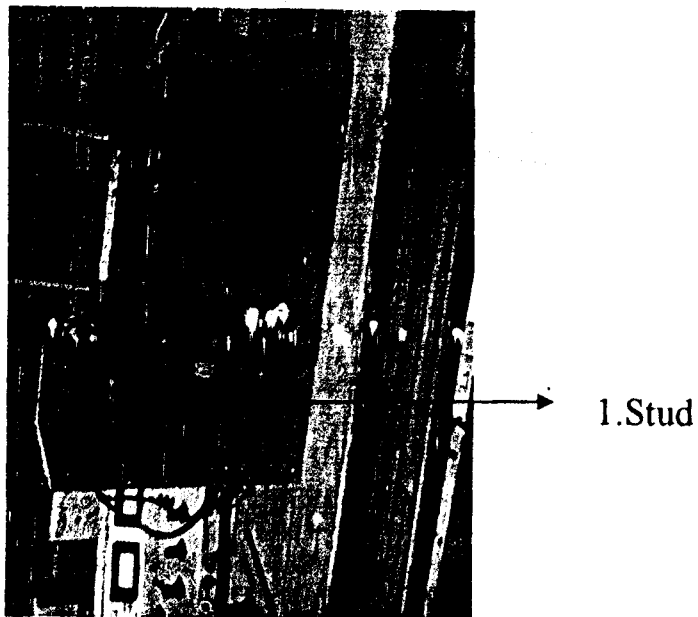
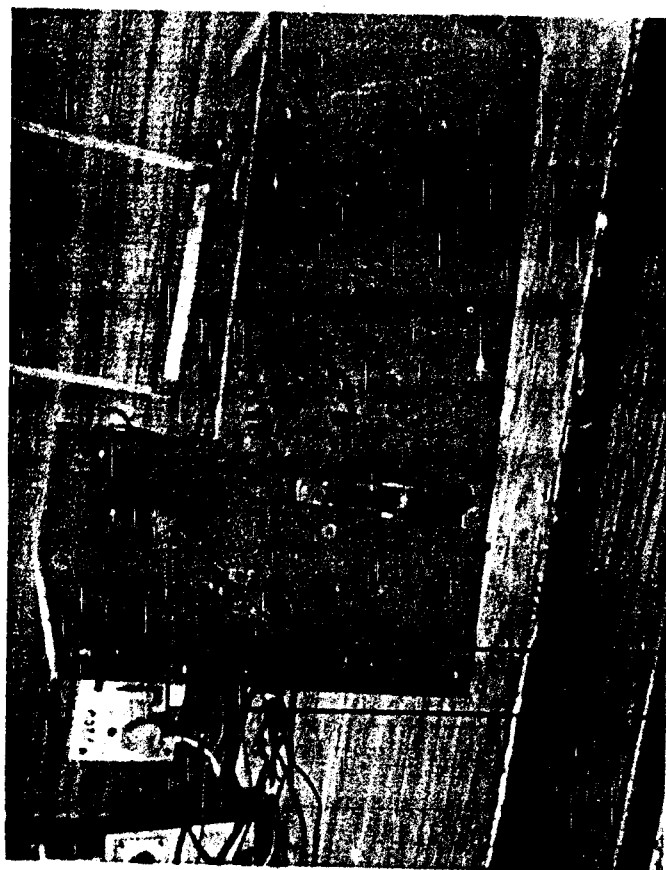


Fig.2

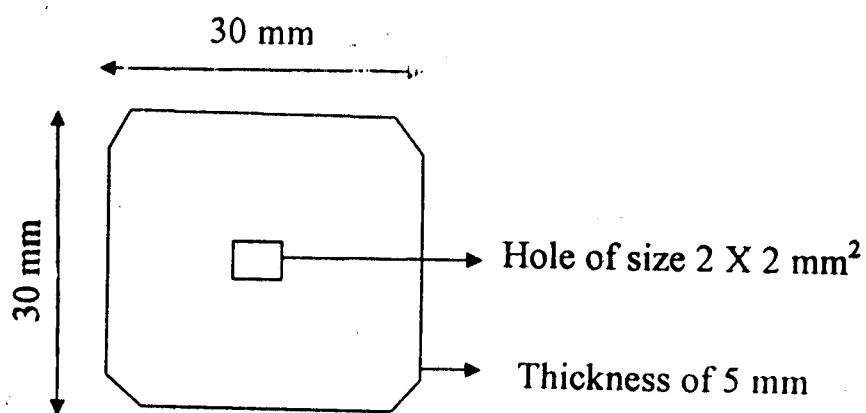
## Annexure-1



1. Stud

2. Rubber sealing gasket

Fig. 3



Rubber sealing gasket

Fig.4

