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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/3.2.119 (CBC)

Dated 29/04/2016

MODIFICATION SHEET No. RDSO/2016/EL/MS/0454 Rev.'0'
Dated 29/04/2016

1.0 TITLE:

Provision of Top operated handle for CBC in place of bottom operated.

2.0 OBJECTIVE:

To avoid damage of operating rod due to cattle run-over and to prevent detention of locomotives on account of difficulty in operation from platform side.

3.0 BACKGROUND:

Railways have reported damage to operating rods of CBC coupler of locomotives during cattle run-over. Problems in shunting and difficulty in operation of handle at the time of locomotives waiting at platform have also been reported by Railways from time to time. Motive Power Dte. of RDSO had issued instructions vide Modification sheet No. MP-MOD-LD-05-10-11 (REV-00) dated 18.07.2011 for Conversion of the CBC Coupler operating arrangement from bottom operated to top operated in Diesel/Electric Locomotives. This has been modified to MP-MOD-LD-05-10-11 (REV-01) dated 08.02.2016 to add details and assembly of lock lifter and hook arrangement. The same is being adapted for conventional as well as three-phase Electric locomotives. The matter has also been discussed in 37th MSG meeting and it was decided to adopt this modification for Electric locomotives.

4.0 INVESTIGATION:

It has been observed that in most of the cases, coupler operating rod gets bent or damaged during cattle run over and sometimes even results in breakage of levers and rotary lock lifter and it takes a lot of time to rectify this problem in sheds. Many a times, the locomotive becomes inoperable from the damaged side. The problem in operation from platform side due to downward projection of operating handle is also reported by operating personnel from time to time and needs to be addressed.

5.0 APPLICATION TO CLASS OF LOCOMOTIVE:

All Electric locomotives including 3-phase Electric locomotives fitted with conventional E/F type center buffer couplers.

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6.0 MODIFICATION REQUIRED:

Following procedure may be followed for Conversion of the CBC Coupler operating handle from bottom operated to top operated:-

- Removal of existing uncoupling arrangement.
- Removal of top opening cover by grinding the tag weld on coupler head top to make way for the lock lifter.
- In stallation of top operating mechanism levers and locks lifter as per enclosed sketch.
- In 3-phase locomotives, the platform obstructs movement of the Bail and needs to be cut as shown below in Fig 1.

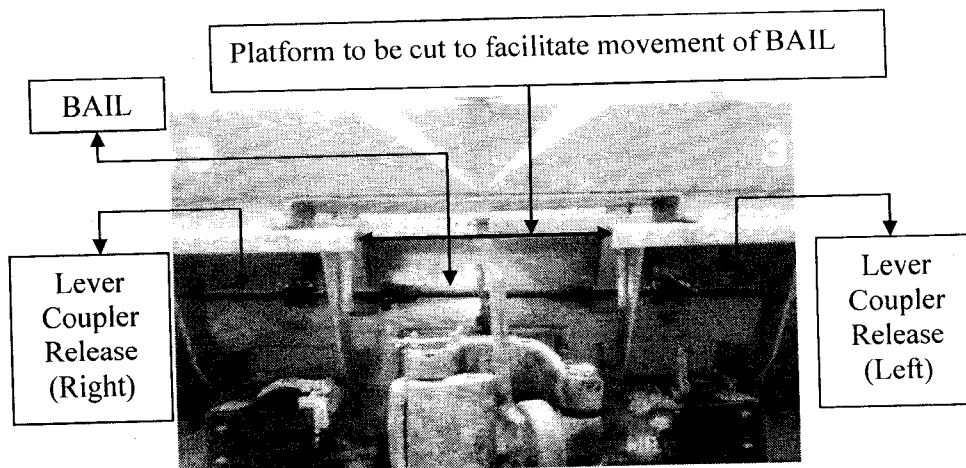


Fig-1: Photograph of Top-operated uncoupling arrangement for CBC in 3-phase Electric locomotives

7.0 MATERIAL REQUIRED AND SOURCE OF SUPPLY:

Railways may develop/procure the components as per enclosed sketch/drawings from suitable sources.

ITEM	DESCRIPTION	No/Loco	EMD Part No./Drawing No.
1	Lever coupler release	02	10632263
2	Lever coupler release	02	10632261
3	BAIL	02	40057907
4	Bracket	08	8520074
5	Nut-1/2-13 SLFLKG	16	8032781
6	Uncoupling Clevis	02	8024774
7	Lock Lifter & Hook Assembly	02	SKDL-4778

8. ADDITIONAL INFORMATION: NIL

9. AGENCY AND SCHEDULE OF IMPLEMENTATION:

CLW, POH Shops and Electric Loco Sheds.

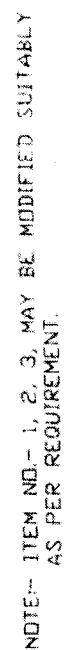
Signature

10. **DISTRIBUTION:**
As per enclosed mailing list.
11. **DELIVERABLES:** NIL
12. **REFERENCES:** (i) MP Dte. RDSO Modification sheet No.
MP-MOD-LD-05-10-11 (REV-01) dated 08.02.2016
(ii) 37th MSG meeting item no. 5.

Enclosures:

Sketch & Drawings of components of Modified uncoupling arrangement.


for Director General/Elect.



S.N.	DESCRIPTION	N/O GOOD	TOP OPERATED COUPLING IN A/CN
6	UNCOUPLING CLEVIS	2	
8	SAFETY STOP SLIPPER	10	
9	SPRINGER	5	
10	RAIL	2	
12	WEAR GAUGER RELEASE	2	
13	WEAR COUPLER RELEASE	2	

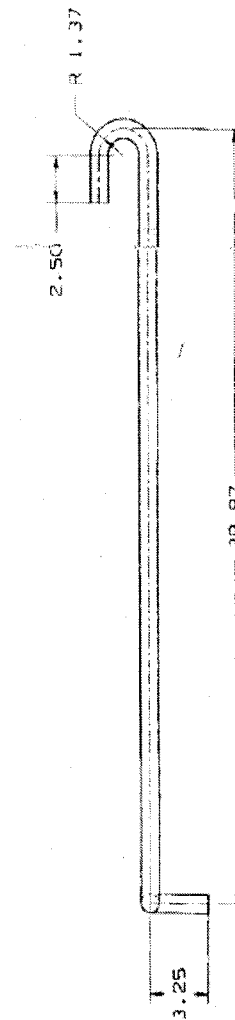
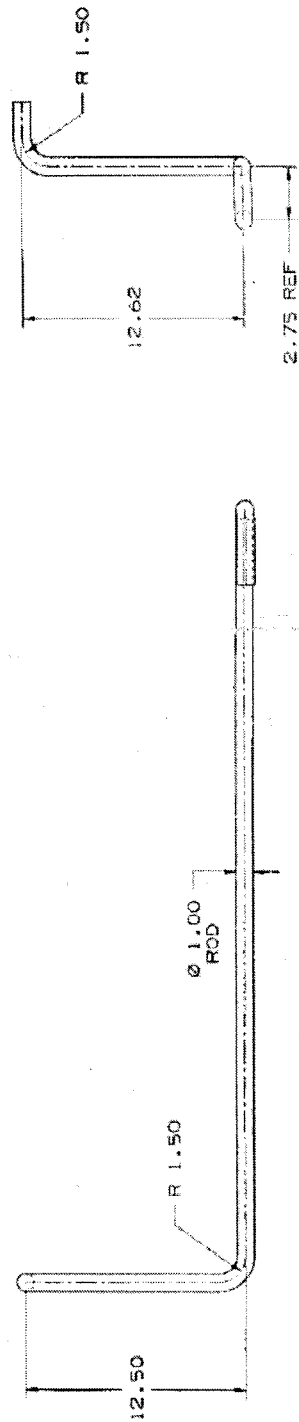
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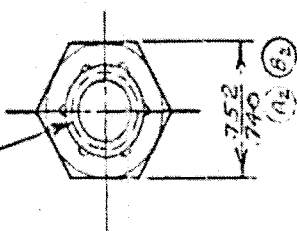
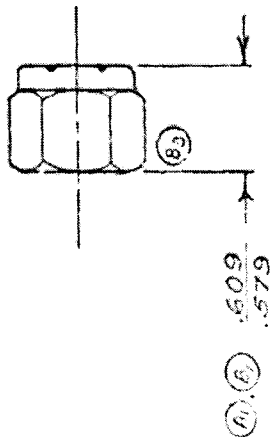
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ELIMON & SONS, CHICAGO

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REF. NO. 0 REV. 0 DATE 10-10-06 DESIGNED BY CHECKED BY DRAWN BY

MATERIAL: SAE 1020 STEEL QUANTITY: 1 UNIT: PC

BAIL

40057907

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