

I/66801/2024



भारत सरकार —रेल मंत्रालय
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सं: MW/WAD/ADPT

दिनांक: 14.10.2024

As per circulation list

विषय: Improper/ incorrect fitment of adapters in freight bogies.

1. Few cases of mismatching of adapters with CTRBs in freight bogies have been reported. Improper/incorrect fitment of adapter in newly manufactured or in-service wagon is matter of serious concern, Incorrect adapter will lead to non-uniform load transfer to CTRB and may result in premature bearing failure like hot-axle etc, thus needs to be strictly avoided.
2. Further clearance at Jaw level between the bogie and adapter also plays crucial role in the dyanmic behaviour of the wagon. Excesive clearnces at jaw level may lead to undue yaw motion of axles, tilting of adapters, faster wear of components as well as detoriates riding behaviour of the wagons.
3. Therefore, fitment of correct type of adapter, ensuring proper dimensional tolerance of adapter & bogie jaw level are utmost important for improved dynamic performamnce of wagon as well as enhanced reliability and service life of CTRBs and other bogie components.
4. RDSO has taken various steps to improve above items which are summarised and attached as **Annexure-I** for ready reference and ensuring its implementation in new manufacturing as well as in-service wagons as applicable.

संलग्नक: उपरिलिखित

(गिरिराज शर्मा)
संयुक्त निदेशक मानक/माल डिब्बा
कृते महानिदेशक/मालडिब्बा

Circulation: For kind information and implementation please:

- (a) All Principal Chief Mechanical Engineers/ ZRs
- (b) All Wagon builders
- (c) All CTRB manufacturers
- (d) All Bogie manufacturers
- (e) All Adapter manufacturers

प्रतिलिपि:

EDME/ Frt/Railway Board/New Delhi : For kind information please.

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Annexure-I**A. Improvements under-taken in bogie:**

ITEM of Improvement	Applicable for bogie type	To be undertaken during	Agency responsible for implementation	Reference RDSO document
Modification in side frame jaw	LWLH25	ROH / POH/Wagon Builders	Zonal Railways/ Wagon Manufacturers	MW/BOGIE/LWLH25 dated 03.10.2022 for implementation in LWLH25 bogies
Bogie maintenance practices	CASNUB Bogies	ROH / POH/Wagon Builders	Zonal Railways/ Wagon Manufacturers	MW/PLNG/CSNB dated 15.02.2023
Bogie maintenance practices	CASNUB Bogies	ROH / POH/Wagon Builders	Zonal Railways/ Wagon Manufacturers	MW/PLNG/CSNB dated 27.04.2023

B. Improvements under-taken in adapter:

ITEM of Improvement	Applicable for bogie type	To be undertaken during	Agency responsible for implementation	Reference RDSO document
Recommendation practices to control cases of hot axle on line.	---	Comprehensive document No. WDR-CTRB-002-2012 for inspection, testing and maintenance of CTRBs in POH, ROH and Yard maintenance.	Zonal Railways	MW.RB.Genl dated 29.10.2012.
Third party quality Audit & Technical seminar by OEMs on CTRB Maintenance in Wagon POH workshop.	---	Guidelines issued for POH workshops w.r.t gauging, maintenance and installation of CTRBs.	Zonal Railways	MW/WAD/CTRB/GENL dated 02.05.2022.
Gauge for checking of adapter bore.	---	Adapter manufacturer, CTRB OEMs, Wagon builder and ZRs.	Adapter manufacturer, CTRB OEMs, Wagon builders and Zonal Railways.	MW/WAD/ADPT dated 24.03.2023





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Colour matching of adapter bore and checking of adapter with gauge.	---	Adapter manufacturer, CTRB OEMs, Wagon builder and ZRs.	Adapter manufacturer, CTRB OEMs, Wagon builders and Zonal Railways.	MW/WAD/QA dated 08.05.2024
Implementation of recommendation of committee on CTRBs issues of freight Rolling Stock and guidelines for maintenance & handling of upgraded CTRBs approved by Railway Board.	---	ZRs during maintenance.	Zonal Railways	MW/WAD/CTRB/GENL dated 19.04.2024

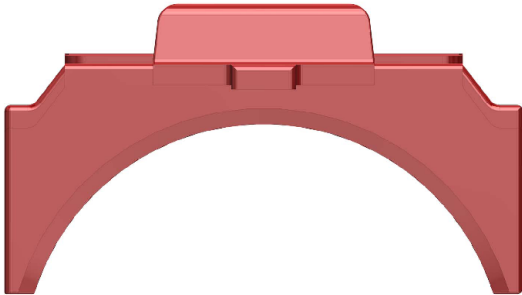

C. Fitment of correct adapter:

Type of adapter	RDSO drawing No.	To be fitted in bogie type	Photograph of the adapter	Fitment Photograph
Narrow Jaw	WD-89067-S-9 (latest)	CASNUB 22 NLB, CASNUB 22 HS, CASNUB 22 HS(M), CASNUB 22 RFT		

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Wide Jaw	SK-78527 (latest)	CASNUB 22 W(M), LCCF 20 (C)		
Modified adapter	WD-85053-S-1 (latest)	Retrofitted CASNUB 22(W)		 <p>It is similar to wide jaw adapter having notches at crown lug to differentiate with Wide Jaw adapter. Also top thickness is reduced.</p>

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Class-K adapter	WD- 15020-S-3 (latest)	LWLH25		
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