

**Rolling-in & Rolling-out Examination (LHB Rakes).
(As per Rule Book IRCA Part – IV, Chapter – III Para No. 3.2)**

Rolling-in and Rolling-out Examination is vital for improving reliability and safety of train operation. In Rolling-in Examination, defects like hot boxes, flat places on tyre, brake binding, broken bolster hanger, broken equalizing stay rod, broken truss bar hanger and other hanging parts in ICF coaches and in case of LHB coaches, securing of all tanks like CDTS tanks, bio-toilet tanks, under slung tanks, AR tanks, brake control module, CBC uncoupling device, sagging of IV coupler, whistling sound from brake disc, brake pad etc. can be detected and corrective action taken during the halt of the train.

The detailed instructions regarding procedure and methodology have been issued vide TSO No. CHG/A-6 Rev-0 dated 25.06.2018. The same should be followed strictly. Items to be checked during Rolling-in / Rolling-out Examination in LHB coaches are given in **Annexure**.

Most of the locations are already using laser / infrared based temperature sensors for measuring the temperature of the axle boxes.

In order to ensure the effectiveness of process, the following needs to be implemented by the Divisions:-

1. Necessary system should be set up and implemented so that the record of temperatures measured on all axle boxes is maintained and remains available for inspection whenever required.
2. In all cases, use of temperature sensors using infrared / laser should be ensured.
3. In order to ensure that temperature sensor measurements are correctly recorded, the temperature sensors should necessarily have the facility for storing the temperature measurements for at least one rake so that it is possible to automatically down load the entire measurement on to the PC or hand held devices for further record.

The above instructions should be strictly followed in letter and spirit.

Examination of terminating and through passing trains :

The Mechanical train examination staff shall take-up positions on both sides of the lines short of the platform on which the train includes: MEMU, DEMU & Coaching train is to be received / despatched.

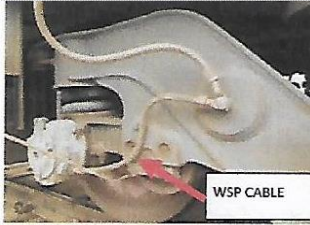
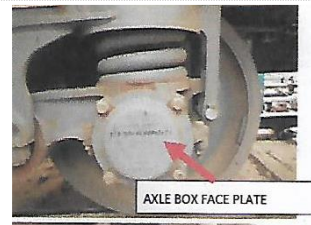
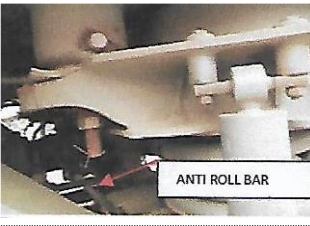
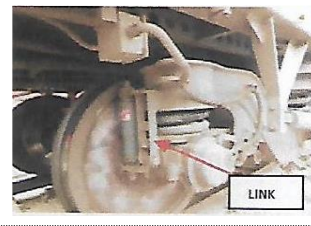


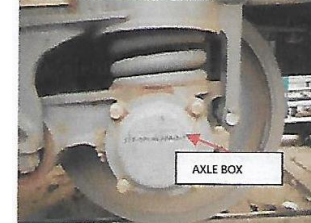
This will enable them to watch the condition of the running gear while the train passes and they will also be able to note defects viz., flat places on tyres, hot axle, broken springs, defective brake gear etc. Appropriate action on such defects shall thereafter be taken.


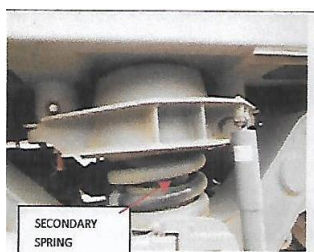



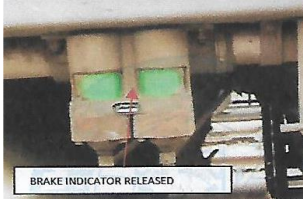
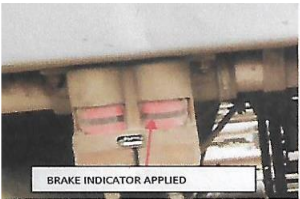
Encl : **Annexure**.

LHB Coach :

Sl. No.	Component	Remarks
01	Hanging part	Anti-roll bar, link, axle box face plate, water pipe etc., WSP cable & battery box securing arrangement.
02	Hot axle	Smoke from axle box
03	Broken part	Primary & Secondary Springs, deflated air spring etc.
04	Wheel skidding	Unusual sound from wheel tread.
05	Air Pressure leakage	Hissing sound from air brake pipes
06	Brake binding	Brake indicator applied or released (Green or Red) FIBA.
07	Securing arrangement of all tanks.	CDTS tanks, Bio-toilet tanks, under-slung tanks, AR tank & brake control module including footboard and CBC uncoupling device.
08	I. V. Coupler sagging	Sagging of I.V. Coupler
09	Whistling sound	From brake disc, brake pad, bearing front & back and earthing box.

Following items should be checked in LHB coach during Rolling-in/Rolling-out :-

S. No.	Component	Remarks
1	Hanging part a. WSP cable, b. Axle box face plate, c. Anti-roll bar, d. Link, e. Water pipe & f. Battery box securing arrangement.	     
2	Hot axle Smell / smoke from axle box	

3	Broken part a. Primary Springs b. Secondary Springs	 
4	Wheel skidding Unusual sound from wheel tread.	
5	Air Pressure leakage Hissing sound from air brake pipes	
6	Deflated air spring Uneven air spring	
7	Brake binding a. Brake indicator applied or released (Green or Red) b. Condition of FIBA.	 

SAFETY ORGANISATION

SOUTH CENTRAL RAILWAY