टेलैक्स : 0535-2424 RDSO-IN फैक्स : 91-0522-458500 तार : 'रेलमानक' लखनऊ

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भारत सरकार - रेल मंत्रालय अनुसंधान अभिकल्प और मानक संगठन लखनऊ - 226011

Government of India-Ministry of Railways
Research Designs & Standards Organisation

LUCKNOW - 226 011

No. EL/3.2.30 Dated: 20.10.1992

<u>SPECIAL MAINTENANCE INSTRUCTIONS NO. RDSO/ELRS/SMI/146</u> <u>Breakage of Journal pin of SMGR Tap Changer No. 32 - ABB Make</u>

1. <u>OBJECT</u>:

Railways have reported cases of breakage of journal pin of SMGR. The probable reasons and remedial measures to overcome these failures are listed in the following enclosed instructions for compliance.

2. INSTRUCTION:

- a. Cause effect diagram (Ref. Annexure-1)
- b. Journal pin modification (Ref. Annexure-2)
- c. Check sheet for failure of journal pin (Ref. Annexure-3)

3. REFERENCE

Co-ordination meeting held on 8.1.1992 at ABB, Baroda

4. INSTRUCTIONS DRAWING:

HBB Drawing NO.SWT 435429 (Enclosed as Annexure 2)

5. APPLICATION TO CLASS OF LOCOMOTIVE:

All locomotives fitted with no 32 tap changer of M/s ABB make

6. AGENCY OF IMPLEMENTATION:

Sheds/shops

7. **PERIODICITY OF IMPLEMENTATION:**

As per the instructions enclosed.

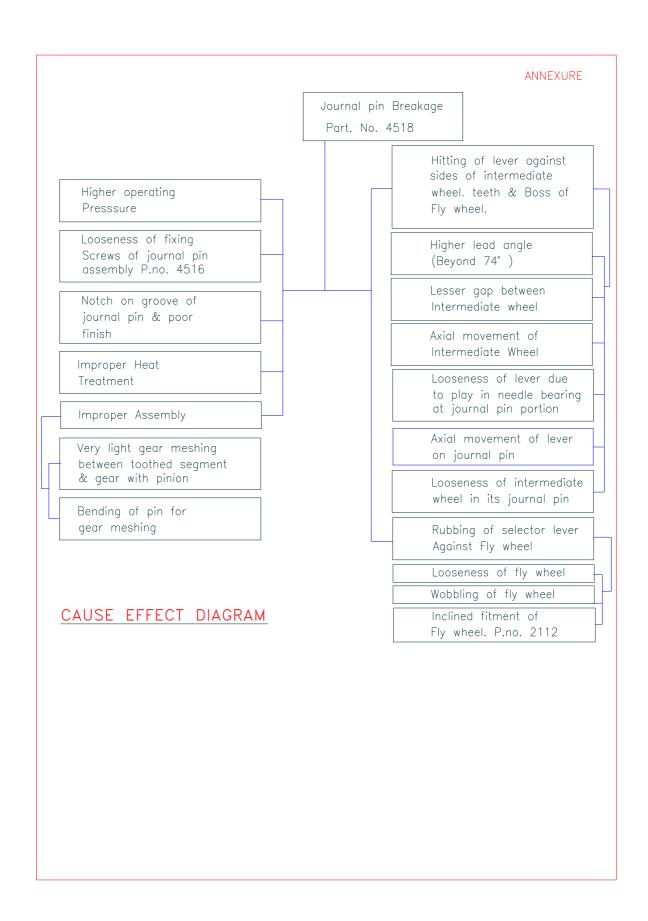
8. **DISTRIBUTION**:

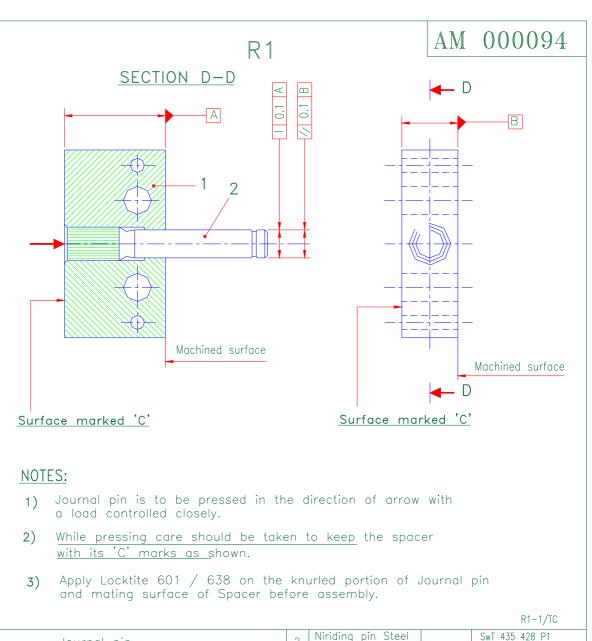
Encl : As above

All Chief Electrical Engineers.

(Arun Srivastava)

for Director General (Elec)





			K1 1/10
Journal pin	2	Niriding pin Steel EN4113, B597055	SwT 435 428 P1 505-44-14538
Spacer	1		SwT 435 427 P1 505-44-14536
Description/Code No.	Р	MATERIAL. CODE NO.	LOWER DRG. NO./CODE NO OR RAW MATL. SIZE

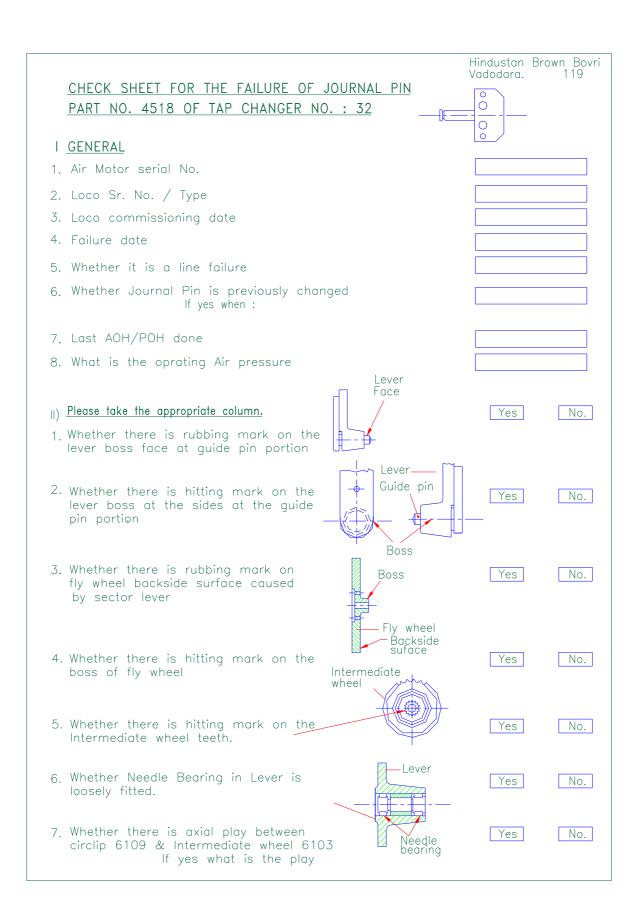
Based on: AG 549 239 mod. 'D' REPLACED BY..... REPLACES

Tap changer No. 32 Control Gear MG2 Journal pin complete

DRAWN 86.05.09 SCALE CHECKED 86.06.08 APPRD. AUTHOD.

HINDUSTAN BROWN BOVERI

SwT 435 429 505-44-14540/14550



- 2 -

Hindustan Brown Bovri Vadodara.

8. Whether there is play (Lateral).

Between bearing Pin 6105 & Intermediate wheel

If yes, what is the play

Yes No.

9. Whether the failure is at the groove portion.

Yes No.

10. What is the condition of groove

Good

Bad

11. Whether guide pin 4521 in----getting stuck up when
operated by hand.

Yes

No.

12. Whether there was sticking of Air Motor / GR reported earlier.

Lever

Guide pin

Yes

13. Whether the Journal pin of new design.

Yes

No.

No.

14. Whether there is grease on intermediate wheel.

Yes

No.

Government of India Ministry of Railways

Research Design & Standard Organisation Manak Nagar, Lucknow – 226 011

EL\4.2.15 Date 18.07.00

Modification Sheet No. RDSO/ELRS/MS/0292-2000 (REV-0)

Title: GR progression and regression valve emergency operation circuit modification in microprocessor based WAG-7 locomotive.

1. Object:

The purpose of the modification is to avoid operation of GR from the rear cab during the emergency operation through BPP & BPR when operating from the leading cab.

2. Work to be carried out:

- 1. Wire no.700 is to be opened out from BPP, BPR and to be taped in both the cabs
- 2. A new wire is to be laid down from BL interlock to BPP and BPR switches from which the cable no. 700 has been removed in both the cabs.
- 3. A new wire is to be connected from BL interlock to wire no.700 in both the BL switches.

3. Material Required:

Two spare interlocks of each BL switch, 750 V grade 2.5 mm² cable of required length and suitable insulated lugs of required quantity.

4. Application to class of locomotive:

WAG-7 Microprocessor based Loco.

5. Reference:

As per suggestion by Railway in the past.

6. Modified Drawing:

SKEL- 4560 - 2000 (REV-0)

7. Agency Implementation:

All Electric loco shed having WAG-7 (Modular) Microprocessor based Loco & Chittaranjan Locomotive Works / Chittaranjan.

8. Distribution: 1) CEE / CR, 2) CEE / ER, 3) Sr. DEE / CNB, 4) Sr, DEE / GMO, 5) CEE/CLW.

Enclosure: As above

ZJam o

