Government of India Ministry of Railways Research, Designs & Standards Organisation Manak Nagar, Lucknow - 226 011

No. EL/3.2.30/CG Dated: 15.9.1982

MODIFICATION SHEET NO. WAM4/128

MODIFICATION TO FIXING ARRANGEMENT FOR BLOW OUT COIL OF CGR TO ENSURE LOCKING - TAP CHANGER NO. 32 TYPE

1. OBJECT

Railways have reported a few cases of loosening of Allen screws provided at locations 2316-17 and 2319-2317 for fixing the blow out coil of load switch (CGR) of tap changer type No. 32. Investigation has shown that HBB have provided only one number plain washer with allen screw. The original BBC practice was to provide 1 number spring washer with hexagonal bolt as shown in their Instruction Sheet No. AM 91018 E. This deviation from the original fixing arrangement caused the loosening of allen screws during service.

2. WORK TO BE CARRIED OUT

- Unscrew the allen screw provided at locations 2316-17 & 2319-2317
- Remove the allen screw (2316) and provide hexagonal screw (2316) with special locking washer, spring washer (2317) and necessary shim as shown in Fig. 1 of SK EL 3504.
- Provide the existing hexagonal socket head cap screw (2319) with spring washer (2317) and punched washer of dia 6.6/11 x 1.6 mm (Plain washer) as shown in Fig. 2 of SK EL 3504.
- Tighten fully the unscrewed hexagonal screws.

3. <u>APPLICATION</u>

All locomotives fitted with No. 32 tap changer.

4. MATERIAL REQUIRED

Hexagonal screw
Special locking washer
Spring washer
24 Nos..

- Shim - As per requirement for

adjustment.

- Punched washer - 12 Nos..

Material to be obtained from HBB works/Baroda.

5. <u>MATERIAL SURPLUS</u>

- Existing allen screws (12 Nos.) at location 2316
- Existing plain washer (12 Nos.) at location (2316-2317)

6. <u>REFERENCE</u>

- (i) HBB Drawing No. TC-83
- (ii) Modified fixing arrangement of blow out coil introduced from HBB tap changer No. 31281208.

7. AGENCY FOR IMPLEMENTATION

All electric locomotive sheds and POH shops.

8. <u>DISTRIBUTION</u>

As per list attached.

Encl: 1. SK EL 3504

2. Mailing list.

(K. Vishwakumar)

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for Director General (Elect).

