

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

No. EL/3.2.30/CG

Dated : 16.3.1984

**MODIFICATION SHEET NO. WAM4/136**

**MODIFIED FLEXIBLE CONNECTION (1623) BETWEEN CGR AND GR OF  
TAP CHANGER TYPE NO. 32 OF HBB MAKE.**

**1. OBJECT**

Railways have reported many cases of breakages of solid connections provided between switching element (CGR) and Double pole bushing (GR) due to locomotive vibrations. It is proposed to provide a flexible connection in place of solid connection.

**2. WORK TO BE CARRIED OUT**

Replace the solid connection by flexible connection (SK EL 3726)

**3. APPLICATION**

Locos fitted with No. 32 tap changer of HBB make.

**4. MATERIAL REQUIRED**

Flexible connections as per RDSO SK EL 3726 obtainable from M/s HBB, P.B.No. 140, Vadodara 390 001

**5. MATERIAL SURPLUS**

Existing solid connection - 2 Nos.

**6. REFERENCE**

- (i) Item (page 8) of the minutes of the meeting held between Railways & M/s HBB in August 83 and minutes circulated vide RDSO letter No. EL/3.2.30/CG dated 24.9.83.
- (ii) M/s HBB Drawing No. TC 96 (Mod A) & TC 97 (Mod B)

**7. MODIFICATION DRAWING**

RDSO SK EL 3726.

## **8. AGENCY OF IMPLEMENTATION**

All electric loco sheds and POH shops.

HBB/CLW - during manufacture and on tap changers in stock.

## **9. DISTRIBUTION**

As per list attached.



K. Vishwakumar  
for Director General (Elec)

Encl : 1.SK EL 3726  
2. Mailing list.

[illegible]

1. P1 & P2 MUST BE CRIMPED FIRMLY TO THE ENDS OF P3. THERE SHOULD BE TWO CRIMPING IMPRESSION AT EACH END AND THE CRIMPING IMPRESSIONS SHOULD BE IN ONE PLANE. THE CRIMPING TO BE DO WITH DOWELS HOT 150 CRIMPING TOOL USING DIE D-9.

2. THE CRIMPED ENDS SHOULD NOT GET LOOSEN AT LOAD OF 720 Kg.

3. THE FLEXIBLE WIRE SHOULD NOT BE LOOSE WOUND

3	COPPER WIRE (FLEXIBLE) L=165	1	TINNED FLEXIBLE CU. W. 38530Wx1.35x27 AREA 120
2	PLUG CONNECTION	1	CU. FRHC SOFT IS: 613-64
1	CONNECTION	1	"
PART NO.	DESCRIPTION	QTY.	MTL/SPEC
REF: 1:1			APPROVED

## MODIFIED FLEXIBLE CONNECTION BETWEEN CGR & GR

RDSO. ELEC. DTE.	SKEL-3726
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