

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

No. EL/3.2.30/CG

Dated : 8.4.1983

**SPECIAL MAINTENANCE INSTRUCTIONS NO.
RDSO/ELRS/SMI/105
LUBRICATION TO THE GROOVE OF PISTON SKIRT (2304) OF TAP
CHANGER TYPE NO. 32 HBB MAKE**

1. OBJECT

Railways have reported a few cases of cylinder walls of servomotors becoming dry resulting in malfunctioning of tap changers. Investigation has shown that in every 'to' and 'fro' stroke of the piston assembly, grease gets scraped and is collected at the two extremities of the cylinder thereby resulting in the dryness of the cylinder walls of the servo motor (Pt. No. 12). It is therefore decided to lubricate the piston skirt (Pt. No. 2304) also with Bharat MP2 grease.

2. Instructions

Apply Bharat MP2 grease in the groove of the piston skirt (pt. No. 2304) also during the lubrication to the servomotor. Total quantity of grease to be applied is 77.5 cc (40 gms) for all the four cylinders put together.

Reference : i) CLW letter No. ELDD/3252(A)/GK dated 1.11.81.

ii) Para 6 of Record Note of discussions held between HBB, CLW and RDSO at Lucknow in February 1982 circulated vide this office letter of even No. dated 15.2.82.

iii) HBB letter No. PWSAS/S 43/5/TAP/DAJ dt. 16.3.83.

3. Periodicity

- During AOH/IOH/POH
- During assembly at HBB works.

4. Instruction Drawing

RDSO SK EL 3510

5. Application of class of locomotives

Locomotives fitted with No. 32 tap changers.


6. Agency of implementation

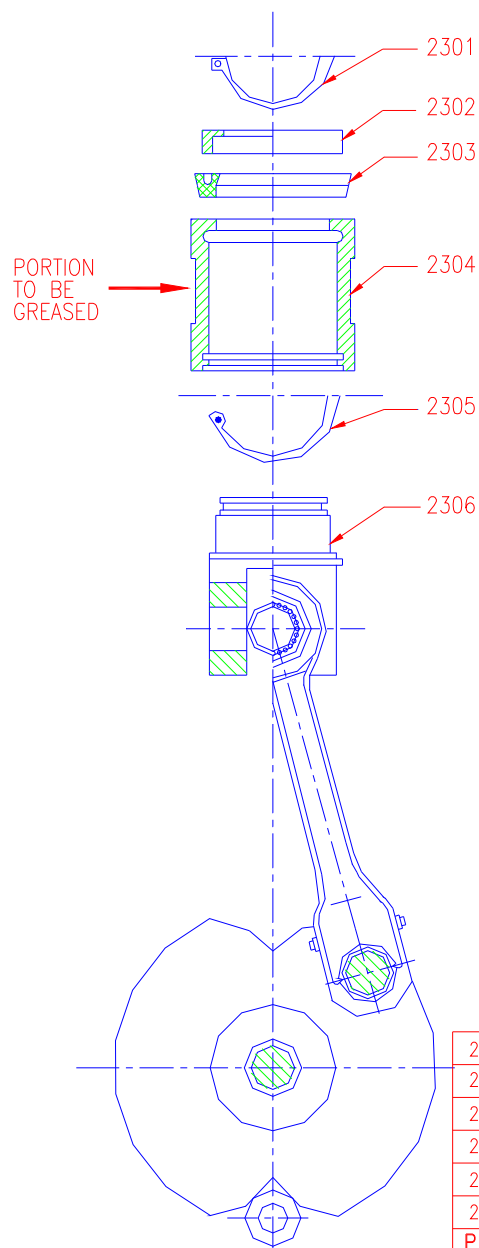
- All electric loco sheds and repair shops of railways.
- HBB during assembly.

7. Distribution

As per list attached.

Encl : SK EL 3510
Mailing list.


(K. Vishwakumar)
for Director General (Elec.)



2306	PISTON	4	
2305	CIRCLIP	4	
2304	PISTON SKIRT	4	
2303	'U'-SECTION RING	4	
2302	THRUST RING	4	
2301	CIRCLIP	4	
PART NO.	DESCRIPTION	QTY.	MATL/SPEC

REF.:— CLW LETTER NO. Dt.
ELOD/3252(A)/SK 1.11.98

SCALE: NTS.

APPROVED
FOR DG

**PISTON WITH CONNECTING ROD
OF SMGR (PART NO. 23)**

R.D.S.O. ELEC. DTE.

SK. EL. 3510

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