Government of India Ministry of Railways Research Designs & standards Organisation Manak Nagar, Lucknow 226011.

No.EL/3.2.12/THY Dated 17th Nov./12.12.83

SPECIAL MAINTENANCE INSTRUCTION No.RDSO/EL.RS/SMI/108

1.TITLE

Setting of simplified battery chargers on ac electric locomotives for 110 V dc battery (50 cell).

2. OBJECT

To prevent over charging of lead acid battery provided on ac locomotives. Simplified battery charger for ac locomotives are provided with 3 or 5 tapping to set the charger at the required tap. It is suggested that the simplified charger should be set at the normal tap giving output voltage of 98/100V rms. (without the battery in circuit) with input voltage between 360 to 400 V rms.

3. WORK TO BE DONE:

Check the existing setting and set the simplified battery charger at normal tap giving 98/100 V rms. with input voltage of 360 to 400 V rms.

4. Reference Drawing:

Nil.

5. AGENCY FOR IMPELMENTATION

Electric Loco Sheds and POH Shops.

6. MATERIAL AND EQUIPMENT REQUIRED:

Material Required: Nil

Equipment Required: Precision grade voltmeter having a sensitivity of not less than 24 K Ohm per volt for measuring the voltage. Tools to open and reconnect the charger lead at different tap if required.

7. **DISTRIBUTION:**

As per enclosed list.

NOTE:-

The locomotive where the battery does not pick-up the charge shall be charged externally or replaced by a fully changed battery.

Encl: Distribution list.

(S. Kumar) for Director General(Elect.)

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