

OPERATING INSTRUCTIONS FOR MEDHA MAKE WIRELESS MU FOR CONVENTIONAL ELECTRIC LOCOMOTIVES

LOCO SIDE

- > COUPLE THE LOCOS TO FORMATION
- > CONNECT BP & FP PIPES AND OPEN THE COCKS

In Lead and Remote Loco:

1. **MU2B** to be kept in **LEAD** position.
2. **A8/BP COCK** in **CUT IN (OPEN)**.
3. **A9 Cock of Active Cab (Driving side)** to be kept in **CUT IN (OPEN)**.
4. **SA9 Cock of Active cab (Driving side)** to be in **CUT IN (OPEN)**.
5. **A9 Cock in Inactive cab (Non-Driving side)** to be kept in **CUT OUT (CLOSE)**.
6. **SA9 Cock in Inactive cab (Non-Driving side)** to be kept in **CUT OUT (CLOSE)**.

In Loco to be configured as Remote Loco:

1. Remove **BL KEY**, **ZPT KEY** & **MPJ key**.
2. Keep **A9** Handle in **RELEASE** Position.
3. Keep **SA9** Handle in **RELEASE** Position.
4. Power ON the **Baby compressor** and ensure **PR > 5.0 kg/cm²** on attaining the pressure switch OFF the baby compressor.

DPWCS & BIU SIDE

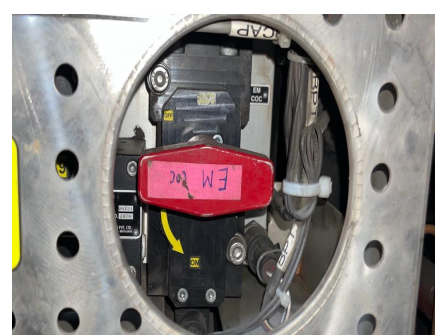
1. **MR** cock on BIU pneumatic panel to be placed in **CUT IN** position.
2. **BP** cock on BIU pneumatic panel to be placed in **CUT OUT** position.
3. **EM** cock on BIU pneumatic panel to be placed in **CUT OUT** position.



MR-COCK



BP-COCK



EM-COCK

4. Power ON the **DPWCS MCB** which is in switch panel of CAB-2.
5. Power ON the **BIU MCB** which is on the BIU panel



BIU-MCB & ISOLATION SWITCH



DPWCS-MCB

Grouping Procedure :-

On the power ON screen of DPWCS display

1. Select Driver ID, enter the ID and press OK.

Click to Enter Driver ID

2. Select Password and Enter '0' and press ok.

Click to Enter Password

3. Select Train No enter Train No and press ok.

Click to Enter Train No:

Note: Train Number must be entered same in LEAD and REMOTE loco

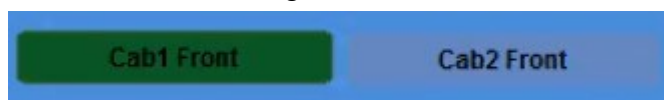
On entering the train number and selectin OK, the options for configuring Lead or Remote will be available.

To Configure as Remote:-

1. Selection the operation mode of Loco as **Remote**. . By clicking on the button



2. Select the CAB heading the direction of loco movement **CAB1 Front/ CAB2**



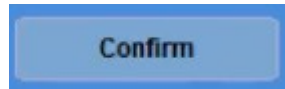
Front.

3. Enter the LEAD Loco number to which Remote must pair by clicking the



button.

4. After Entering all the above-mentioned details [step 1 to 3] press



button.

5. On pressing the CONFIRM button, frequency channel selection screen will be appeared, from the screen select the required frequency channel, Selected frequency will be displayed as



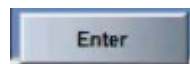
to



confirm the selected frequency press

button.

6. On pressing the confirm button the below screen will be displayed indicating configuration is done successfully.



7. Press button to view the default screen.



Note: If at any time want to enter the details again press option, it will come to default power ON screen.

To Configure as LEAD:-

8. Selection the operation mode of Loco as **LEAD**. By clicking on the button



9. Select the CAB heading the direction of loco movement **CAB1 Front/ CAB2**

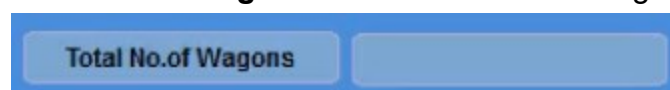


Front.

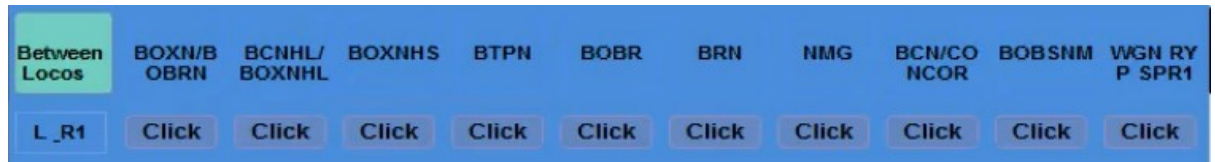
10. Enter **Total No of Remote Loco** to be grouped by clicking on the "**Total No.of Remote Loco**" button



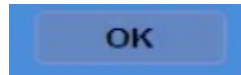
11. Click **Total No of Wagons** to enter number of wagons between Lead and



Remote.



Enter no of wagons by clicking **Click** Button. After entering no of wagons click

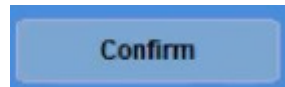


OK button. Note: If **No Wagons** enter number as '0'.

12. Enter the Remote Loco number to which LEAD must pair.



13. After Entering all the above-mentioned details [step 1 to 5] press



button.

14. On pressing the CONFIRM button, frequency channel selection screen will be appeared, from the screen select the required frequency channel, Selected frequency will be displayed as

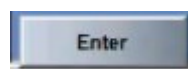


to



confirm the selected frequency press button.

15. On pressing the confirm button the below screen will be displayed indicating configuration is done successfully.

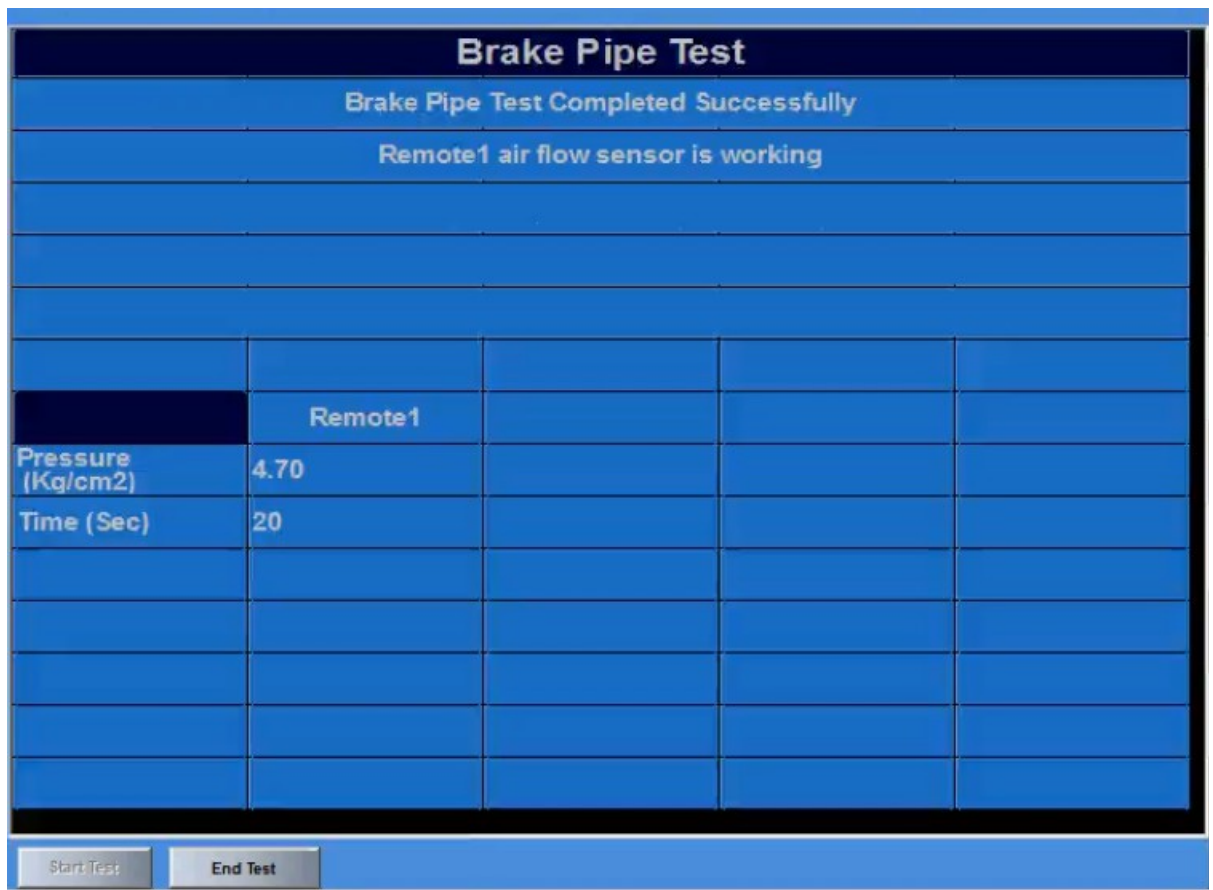




16. Press button to view the default screen.

17. Once the Communication between Lead and Remote is established, screen for performing Brake Pipe Test will be displayed on the LEAD display by showing the Entry Conditions.



Now place the handle in the Release position. Internally it will check for the release pressure in both the Locos and on attaining the pressure it will make the brake pipe to cut out mode and exit the test by displaying the result.




19. On pressing the  button, default screen will be displayed.
20. To redo the test, please go to the  option in the default screen.

Note: Until Brake pipe test is not successful, Remote locomotive will not be synchronizd with MP operation of the Lead locomotive.

UnGrouping Procedure :-

Ungrouping is possible only from the LEAD loco.

1. Train to be in standstill.

A blue rectangular button with the word "Ungroup" in black text.

2. Select button in the Lead loco default screen. On selection it will ask for the password

A blue rectangular button with the word "OK" in black text.

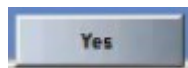
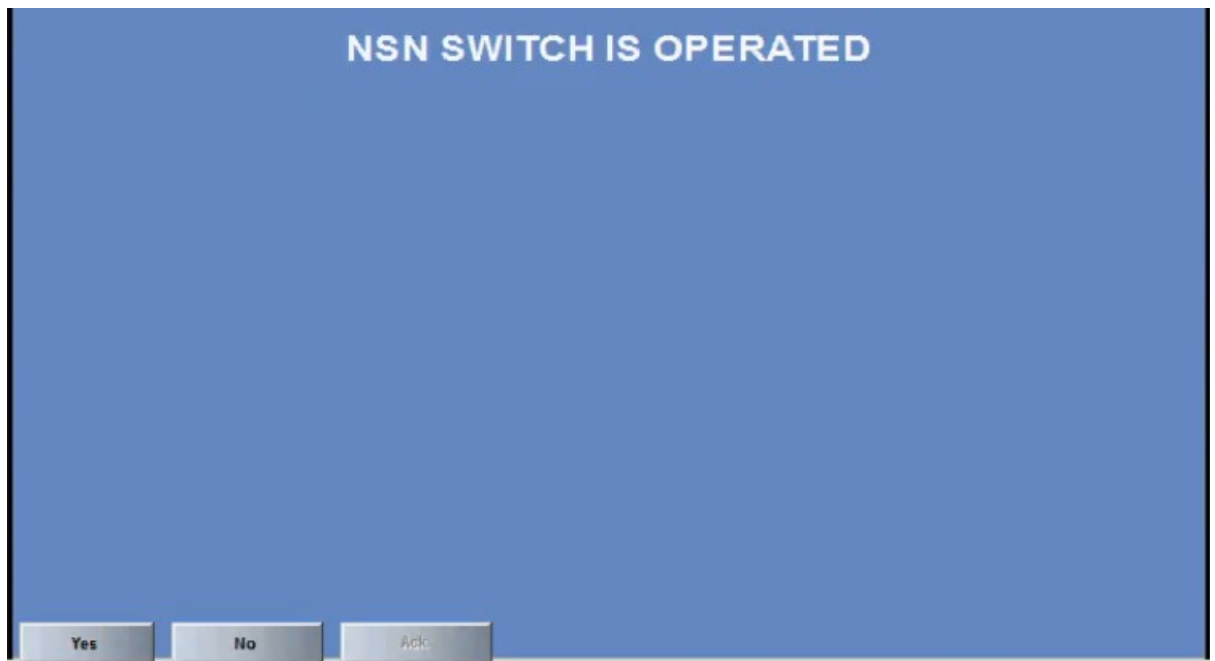
.Enter password and click . Locos will be ungrouped.

3. Switch of the DPWCS-MCB and BIU-MCB and keep isolation switch in isolate position.

Neutral Section Negotiation:-

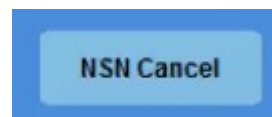
This operation is possible only in the Lead loco

1. Press the NSN Button provided on the Driver Display Unit on crossing 250M or 500M Warning Board. It will ask for confirmation.



.If the operation is desired press button.

2. Open the DJ at Open Board & Close the DJ at Close Board.
3. The remote locomotive will open its DJ before the open Board and Close after the DJ close board automatically. Relevant message will be displayed on DDU for loco pilot.



4. If NSN is to be cancelled press button which is on the Lead loco default screen.