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# Chart 13 XMTR Output Level Calibration (No PA)

#### **PURPOSE**

Use this procedure to calibrate the UD-35() Transmitter output in radio configuration that is not equipped with the optional PA. This procedure sets the high and low rails that the controller uses to control the output of the XMTR and for alarming.

## TOOLS REQUIRED

PC With RS-232 Interface Cable Alcatel PN 695-7848

**DVM** 

Power Meter With Medium Power Sensor

Adapter, SMA-M to Type N-F

Test Lead and Tool Kit

### STEP PROCEDURE



Exposure to energy radiated at microwave frequencies can cause eye injury and eventual blindness. Do not operate the system with a waveguide port unterminated.

#### **WARNING**

Possibility of Damage to Equipment

Wear ground straps according to local office procedures.

## CAUTION

Possibility of Service Interruption

This is an out-of-service procedure when on a nonstandby (unprotected) system. On a hot-standby or frequency diversity system, switch traffic on the channel under test to protect.

# STEP PROCEDURE, CONTINUED

**1** See Figure 9-18.

Note

If ATPC is enabled, disable (XMTR will go to high power).

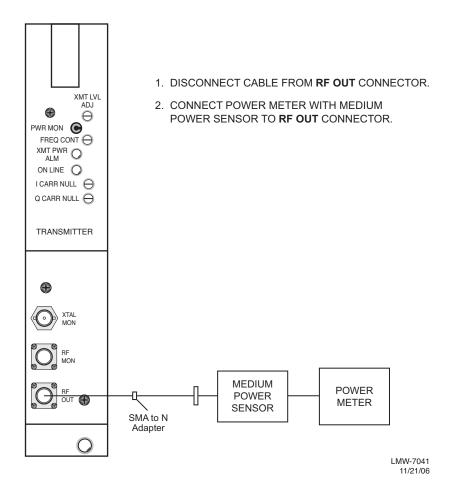


Figure 9-18 XMTR Output Level Check/Adjustment Test Setup

- Open Transmit Power Calibration screen.
- Perform transmit power calibration. See Figure 9-19.

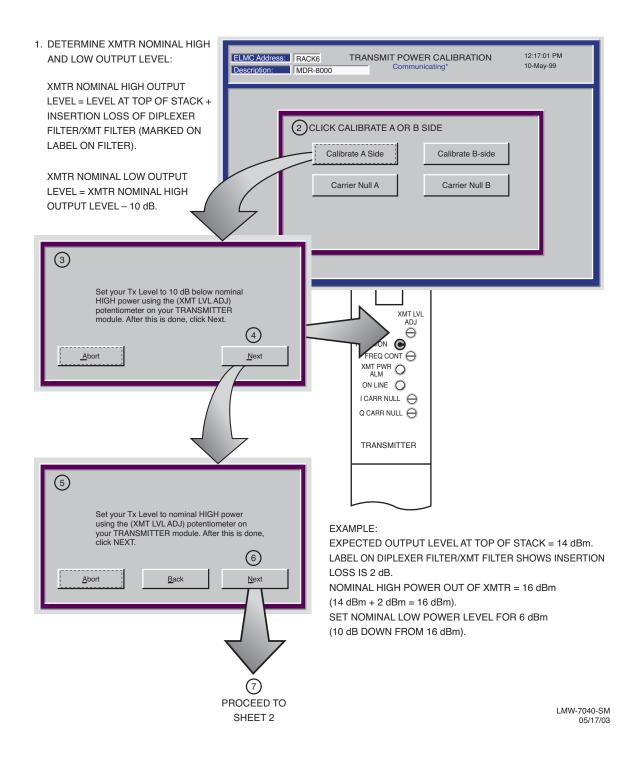


Figure 9-19 XMTR Output Level Check/Adjustment (Sheet 1 of 2)

Note

After nominal high and low output levels have been calibrated and saved, the XMTR output power alarm point is automatically calculated and set by software 5 dB down from the nominal output power.

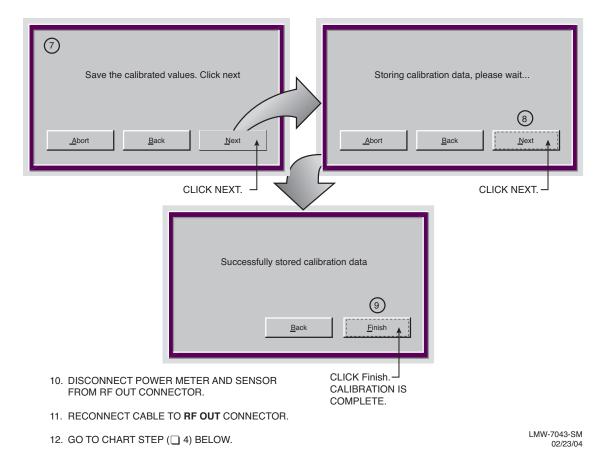


Figure 9-19 XMTR Output Level Check/Adjustment (Sheet 2 of 2

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## STEP PROCEDURE, CONTINUED

Observe RF MON label on XMTR front panel. On label, is the measured READ level in dBm or Vdc?

If labeled READ X.X dBm, perform XMT Power Calibration Figure 9-20.

If labeled READ X.X Vdc, perform XMT Power Calibration Figure 9-21.

Note

Ensure ATPC is disabled.

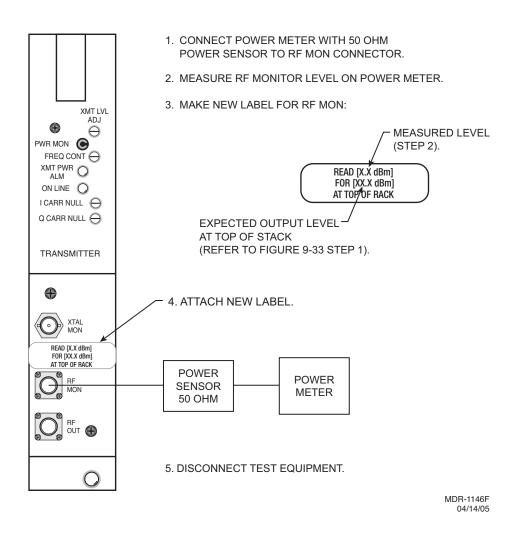


Figure 9-20 XMTR RF Monitor Level in dBm.

## STEP PROCEDURE, CONTINUED

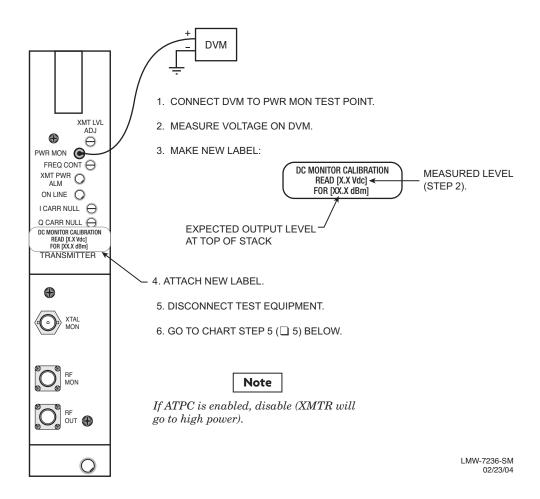


Figure 9-21 XMTR DC Monitor Level in Vdc

Was this procedure performed as a routine power adjustment?
Yes, skip step 6. STOP. This procedure is complete.
No, go to step 6.
Re-check carrier null (Chart 10, Chart 11, or Chart 12, this section).

If ATPC was enabled prior to performance of this procedure, re-enable.

**This procedure is complete.**