

TM 11-5825-278-12-1

OPERATOR'S AID

RADIO RECEIVER SET DIRECTION FINDER SET

AN/PRD-11

(NSN 5825-01-188-3435)

Distribution authorized to the Department of Defense and DOD Contractors only for official use or for administration or operational purposes. This determination was made on 28 October 1987. Other requests for this document will be referred to Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: AMSEL-ME-P, Fort Monmouth, NJ 07703-5000.

DESTRUCTION NOTICE — Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

HEADQUARTERS, DEPARTMENT OF THE ARMY

15 FEBRUARY 1988

POWER UP SYSTEM

Check POWER terminal on all three units to ensure the protective cap is securely in place.

RECEIVER

Volume	Turn clockwise until it clicks, then turn to midrange.
Counter Off/ Display Intensity	Turn to first position after DISPLAY OFF.
Bat Test	Press/release pushbutton. If lamp lights, batteries are good.

DF PROCESSOR

Off/Omni/ DF/CAL	Set to DF.
Display off/ Display Intensity	Set to first position after Display Off.
Sat Test	Press/release pushbutton. If lamp lights, batteries are good.

SIGNAL MONITOR

On/Power	Set to On.
Inten	Turn clockwise/counterclockwise until CRT display is visible.
Bat Test	Press/release pushbutton. If lamp lights, batteries are good.

PRESET CONTROLS ON DIRECTION FINDER UNITSRECEIVER

Band (MHz)	Set to band designated by mission.
Mode	Set to detection mode designated by mission.
DAFC	set to off.
IF Bandwidth (k Hz)	Set to bandwidth designated by mission. If unknown, set to 50 kHz.
RF Gain	AGC - Turn clockwise until it clicks. MANUAL - Rotate fully counterclockwise, then rotate slowly clockwise to increase signal strength. (For automatic gain control, rotate clockwise until it clicks.)
Tune	Rotate clockwise and counterclockwise and observe frequencies tracking up and down.
Squelch	Turn fully clockwise, then turn counterclockwise until noise and static stop.
Fine Tune	Set receiver to A M or FM detection mode. Then set Fine Tune to midrange. Then rotate the Fine Tune 10 sec if frequencies track up and down.
BFO	Set receiver to LSB/CW or USB/CW detection mode. Rotate BFO and observe frequencies tracking up and down.

PRESET CONTROLS ON DIRECTION FINDER UNITS**DF PROCESSOR**

Off/Omni DF/CAL	Set to CAL.
Band (MHz)	Set the same as the Receiver.
Integ Time	Set to 0.5, 1.0, or 2.0 seconds.
Zero Adj	Set to 000 in the 80-250 MHz band and 180 in the 20-80 and 250-500 MHz bands.
Off/Omni DF/CAL	Set to DF.
IF Bandwidth (kHz)	Same as Receiver.
Integ Time	Set to GATED.
Tune (RCVR)	To a frequency with no signal present.
Gated Threshold	Set fully clockwise, then counterclockwise until the lamp goes off. Then stop.

SIGNAL MONITOR

Sweep Rate	Turn fully clockwise.
SM Gain	Turn fully counterclockwise.
Sweep Width	Turn fully counterclockwise.
Marker	Set to ON.
Focus	Turn until signals are seen clearly.

PRESET CONTROLS ON DIRECTION FINDER UNITS

SIGNAL MONITOR - cont'd

Sweep Width	Turn fully counterclockwise.
Center Freq	Turn until the line on the screen reaches maximum height.
Sweep Width	Turn fully clockwise and then one-fourth turn counterclockwise.
SM Gain	Turn clockwise until a baseline of small noise and static signals appear on the screen.
Sweep Reverse	Set to DOWN for 12-30 MHz 20-80 MHz and 250-500 MHz. Set to UP for .5-12 MHz and 80-250 MHz
Tune (RCVR)	The noise and static pipe should move from left to right when the Receiver is tuned clockwise. They should move from right to left when the Receiver is tuned counterclockwise. If not, reverse the position of the Sweep Reverse switch.

(During sustained operations, if your controls will not function properly on any unit, the first step is to conduct the battery test again on that unit to ensure the battery has not discharged below the minimum voltage level required to power the unit.)

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R.L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:

To be distributed in accordance with DA Form 12-51 literature requirements for AN/PRD-11.