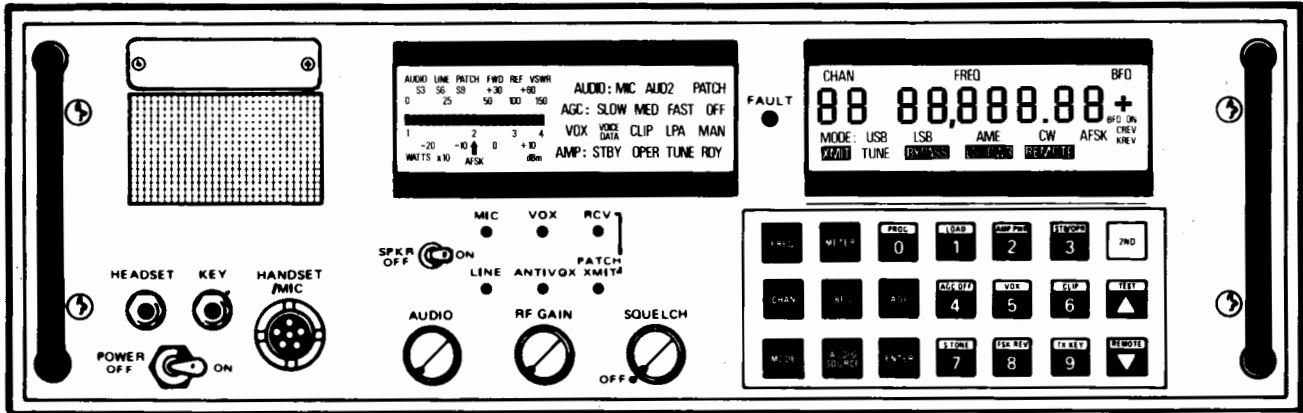# RF-350 OPERATOR'S CARD

POWER UP

When powered up, all system operations are from the XCVR front panel, or optionally from the identical remote control unit.

To power up the equipment:

Select XCVR POWER ON and observe in sequence:
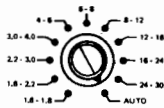1. Displays illuminate.
2. Display of system status.

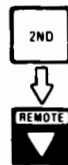**IF SYSTEM INCLUDES PA**

POWER ENABLE

Select POWER ENABLE and AUTO functions

AUTO/MANUAL BAND

IF SYSTEM INCLUDES A REMOTE CONTROL

Pressing 2ND and REMOTE will toggle control between the REMOTE and the LOCAL (XCVR) front panels.

The XCVR will remember (and display) the last commanded position at power up. Select desired control location and proceed.

TO START THE 3 MIN PWR AMP WARMUP SEQUENCE

At the front panel press 2ND and AMP PWR.

Observe AMP STDBY flash for 3 MIN. WARMUP period. When AMP STDBY stops flashing, AMP is ready to be placed into operation

ENTERING A FREQUENCY — OR — FOR CHANNELIZED OPERATION — OR — TO PROGRAM A CHANNEL

Push FREQ and using keypad, enter desired operating frequency

Push ENTER to install desired operating frequency

SELECTING A MODE

Push MODE switch to step through and select MODE options normally USB)

Push CHAN and ENTER to select a preprogrammed channel

In channelized operation, mode information is preprogrammed. Making a mode change will take the radio out of the channelized mode.

Push 2ND and PROG - Observe CHAN indicator flash. Use Keypad to install desired channel number

Press ENTER and observe FREQ segments flash. Enter desired Simplex or RX operating frequency.

Push MODE switch to step through to desired mode option.

NOTE
- If Simplex, push 2nd LOAD (Continue for additional channels)
- If half-duplex continue with next step.

Push 2ND and FREQ - XMIT indicator blinks and FREQ illuminates. Enter desired Transmit frequency.

Push 2ND and LOAD to install. Continue for additional channels.

SELECTING AN AUDIO SOURCE

Push the AUDIO switch to step the audio source through all options. For front panel microphone operaton, select MIC.

SELECTING THE METERING FUNCTION

Push the METER to step through the FWD, REF, VSWR, AUDIO, LINE, and PATCH METERING options. Select FWD for normal operation unless otherwise required.

FOR LOCAL MIC PTT OPERATION

HANDSET /MIC

Connect microphone to front panel HANDSET/MIC connector.

- Operate PTT (Push-to-Talk)

NOTE

Wait for completion of automatic tune sequence when PTT switch is first operated on a "new" frequency.

YOU ARE NOW READY TO OPERATE - SEE OPPOSITE SIDE FOR ADDITIONAL FEATURES
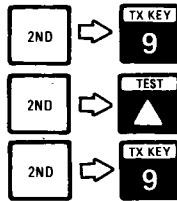
To Verify the System, Continue as Follows (See Manual or Separate RF-350 System Fault Card For Fault Code Listings and Recovery Procedures):

RECEIVE TEST

`2ND` ⇨ `TEST ▲`

Pushing 2ND and TEST will quickly test the receive system. For a complete system test, select tx mode as shown at right prior to commanding test sequence.

FULL SYSTEM TEST (will include full power operation exercise)

`2ND` ⇨ `TX KEY 9` Push 2ND and TX KEY and observe indicator go to XMIT.

`2ND` ⇨ `TEST ▲` Push 2ND and TEST and observe all displays illuminate as system test sequence begins. Passed message indicates successful completion.

`2ND` ⇨ `TX KEY 9` Push 2ND and TX KEY to "TOGGLE" (Switch) System back to RECEIVE mode.

USE THE FOLLOWING ENHANCED OPERATION FEATURES AS NECESSARY

FREQUENCY SCROLLING

`FREQ` Push FREQ and command `TEST ▲` (Scroll up), or `REMOTE ▼` (Scroll down), as desired.

TO QUICKLY SCAN THROUGH CHANNELS

`CHAN` Push CHAN to command channelized mode and `TEST ▲` (Scan up) or, `REMOTE ▼` (Scan down), as desired.

TO ADJUST THE BFO (RECEIVE BEAT FREQUENCY OSCILLATOR) TO THE DESIRED NOTE

`BFO` Push BFO, and increase the note by pushing `TEST ▲` , or select a lower frequency by pushing `REMOTE ▼`

TO CENTER THE BFO FREQUENCY (ZERO BEAT OR AGREEMENT WITH CARRIER FREQUENCY)

`BFO` Push BFO, release, and push `BFO` again.

TO MAKE AGC SELECTIONS

`AGC` Push AGC (Continue to activate to step through SLOW, MED, FAST). Push `AGC OFF 4` to disable AGC.

TO REVERSE THE AFSK POLARITY

`2ND` ⇨ `FSK REV 8` Push 2ND and FSK REV.

TO ACTIVATE OR DISABLE THE TX AUDIO CLIPPER

`2ND` ⇨ `CLIP 6` Push 2ND and CLIP. When the Clipper circuit is active, clip will show on the front panel display.

TO ACTIVATE OR DISABLE VOX

`2ND` ⇨ `VOX 5` Push 2ND and VOX.

TO ACTIVATE OR DISABLE THE SIDETONE CIRCUIT

`2ND` ⇨ `S TONE 7` Push 2ND and S TONE.

TO MONITOR THE XMIT FREQ (ASSUME HALF-DUPLEX OPERATION)

`2ND` ⇨ `FREQ` Push 2ND and FREQ. The display will change to show the XMIT frequency, and the receiver will switch over to monitor the Transmit frequency. The XMIT indicator will blink to remind the operator of this condition

`2ND` ⇨ `FREQ` Push 2ND and FRQ to toggle back to normal operation. The XMIT indicator will stop flashing and the receiver will switch back to operate on the programmed receive frequency.

HARRIS