

**OPERATING
PROCEDURES
IHFR RADIO SET
AN/GRC-193A**

**MOS: 31C
And GPU**

References: TM 11-5820-924-13

Approved for public release; distribution is unlimited.

**DISTRIBUTION: US Army Training and
Audiovisual Support Centers (TASCs)**

Headquarters, Department of the Army

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PREOPERATIONAL CHECKS

STEP	UNIT	CONTROL OR SWITCH	POSITION
1	Power source	• Vehicle, generator or power supply	Off
2	AN/GRC-193A	• Inspect grounding system	
3	AN/GRC-193aA	• Inspect antenna system	
4	AN/GRC-193A	• Insure correct cabling	
5	CU-2064	• Air intake & exhaust	Clear
6	AM-6545	• Air intake & exhaust	Clear

PRESETS (CONT'D)

STEP	UNIT	CONTROL OR SWITCH	POSITION
2	AM-6879	• 20/60MA Sw	20 or 60MA (Not used with VOICE or CW)
		• TTY/SPKR ON/OFF Sw	OFF
		• SQUELCH CONTROL Sw	MID RANGE
3	AM-6545	• ANT CPLR CB	PUSH IN TO RESET
		• PA CB	PUSH IN TO RESET
		• 400W/100W Selector	100W
4	CU-2064	• NO PRESETS NECESSARY	

PRESETS

1	RT-1209	• OFF/MAX/VOLUME Sw	OFF
		• MODE SELECTOR Sw	V-TR
		• SB SELECTOR Sw	USB or LSB

ENERGIZING

1	Power supply or generator Vehicle	• CIRCUIT BREAKER	ON (Adjust for 26.5 VDC)
		• Start engine	ADJUST Throttle

ENERGIZING (CONT'D)

STEP UNIT CONTROL OR SWITCH POSITION

- | | | | |
|---|---------|--|------------------------------------|
| 2 | RT-1209 | • OFF/MAX/VOLUME Sw | TURN to
right 1/2
turn |
| | | • FREQ. SELECT
PUSH BUTTONS | SET
operating
freq. |

NOTE: Allow 60 second for POWER AMPLIFIER warm-up "BEEPING" sound will be heard in earpiece of the headset at this time.

- | | | | |
|---|---------|----------------------|-----------------|
| 3 | AM-6545 | • BLOWER MOTOR | Will come
ON |
| | | • Orange "TUN" light | Will come
ON |
| | | • Green "RDY" light | Will come
ON |

NOTE: The green "RDY" light and the Orange "TUN" light indicate the radio is ready to be fine tuned.

PRESETS (CONT'D)

STEP UNIT CONTROL OR SWITCH POSITION

- | | | | |
|---|---------|-----------------------|---|
| 1 | RT-1209 | • HANDSET PTT Sw | DEPRESS
momentarily
and release |
| | | • HANDSET EAR PIECE | TURNING
TONE will
be heard |
| 2 | AM-6545 | • Green "XMT" light | Will come
ON and stay
ON approx-
imately 6 sec |
| | | • 400W/100W Select Sw | 100W |

NOTE: After 6 seconds green "XMT" light will go OUT, orange "TUN" light will GO OUT and green "RDY" light will STAY ON. The radio set is now ready for VOICE and CW modes of operation.

MODES OF OPERATION

STEP UNIT CONTROL OR SWITCH POSITION

(VOICE)

- | | | | |
|---|---------|--|--|
| 1 | RT-1209 | <ul style="list-style-type: none">• MODE SELECTOR Sw• OFF/MAX/VOLUME Sw• HANDSET PTT Sw | V-TR
Comfortable listening level
Push to talk and release to receive |
|---|---------|--|--|

(CW)

- | | | | |
|---|---------|--|---|
| 1 | RT-1209 | <ul style="list-style-type: none">• MODE SELECTOR Sw• OFF/MAX/VOLUME Sw• Leg Key KY-872 | V-TR
Comfortable listening level
DEPRESSSS to transmit and release to receive |
|---|---------|--|---|

MODES OF OPERATION (CONT'D)

STEP UNIT CONTROL OR SWITCH POSITION

(RADIO SILENCE: VOICE AND CW)

- | | | | |
|---|---------|---|-------|
| 1 | RT-1209 | <ul style="list-style-type: none">• MODE SELECTION | V-RCV |
|---|---------|---|-------|

STOPPING PROCEDURES

- | | | | |
|---|---------------------------------|---|---------------------|
| 1 | RT-1209 | <ul style="list-style-type: none">• OFF/MAX/VOLUME Sw | OFF |
| 2 | Generator
or
Power supply | <ul style="list-style-type: none">• CIRCUIT BREAKER• GENERATOR | OFF
SHUT
DOWN |
| 3 | Vehicle | <ul style="list-style-type: none">• THROTTLE• IGNITION Sw | PUSH IN
OFF |