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MC 790 MARINE RADIOTELEPHONE OWNER'S MANUAL

## UNIDEN MC790

The UNIDEN MC790 VHF marine radio transceiver has been designed to give you a rugged reliable instrument that will provide you with years of trouble-free service.

You are encouraged to thoroughly read this manual to acquaint yourself with the characteristics and operation of your transceiver so that you can contribute to the longevity of your investment.

With proper care and maintenance, your UNIDEN MC790 will outlast your present vessel and serve you well on board several more. The full features and flexibility de-

signed into this quality transceiver will prevent it from becoming obsolete regardless of changes in craft or geographic locations. The unit may be mounted in any number of convenient locations by utilizing the universal mounting bracket.

The UNIDEN MC790 is of all solid state design with conservatively rated rugged components and materials compatible with the marine environment. The transceiver utilizes a number of gaskets, sealing rings, waterproof membranes, and other sealants to effect a splash proof housing for protection of the electronics.

## INSTALLATION

**CAUTION:** The MC790 will operate only with nominal 12 volt negative ground battery systems.

It is important to carefully determine the most suitable location for your MC790 on your vessel. Electrical, mechanical, and environmental considerations must all be taken into account. You must select the optimum relationship among these considerations.

Keep in mind the flexibility designed into the MC790 so that you can most conveniently use your radio. Features which should be considered are:

 Universal mounting bracket may be installed on either top or bottom of shelf, bulkhead, or overhead mounting.

- The microphone connector faces forward allowing convenient in-dash or "built-in" installations.
- The front panel can be fully reversed to provide for optimum viewing and operating for any mounting position.
- The REMOTE speaker jack may be used with an auxiliary speaker.

All connections are "plug-in" type for easy removal of the radio.

## **ANTENNA CONSIDERATIONS**

A variety of antennas is available from a number of quality suppliers. It is recommended you draw upon the advice of your Marine Dealer in determining a suitable antenna for your vessel and range requirements.

The general rules for antennas are: The more gain the greater the range and, the higher above the water line the greater the range. Antennas should be located so as not to be in proximity to metal objects. Antennas should not have excessively long coaxial feed cables.

### **CHOOSING A LOCATION**

Some of the more important external factors to consider in selecting the location of your MC790 are:

- 1. Select a location that is free from spray and splash.
- Keep the battery leads as short as possible. Connection directly to the battery is most desirable. If direct connection cannot be made with the supplied power lead, any extension should be made with #10 AWG wire. Long extensions should use larger wire.
- Keep the antenna lead as short as possible. Long antenna leads can cause substantial loss of performance for both receiving and transmitting.
- Locate your antenna as high as possible and clear from metal objects. The reliable range of coverage is a direct function of antenna height.
- 5. Select a location that does not allow the radio to be subjected to direct sunlight (including that coming through windows).
- Select a location that allows free air flow around the heat sink on the rear of the radio.

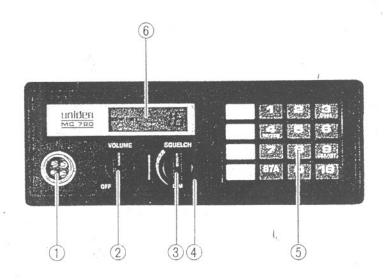
Select a location well away from the ship's compass. Auxiliary speakers also should be located away from the compass.

After you have carefully considered the various factors affecting your choice of location, position the radio (with the bracket, microphone, power plug, antenna plug and any auxiliary plugs installed) into the selected location to assure, there is no interference with surrounding items. Mark the location of the mounting bracket.

Remove the bracket from the radio and use it as a template to mark the holes to be drilled for the mounting hardware. Drill the holes and mount the bracket with hardware compatible with the material of the mounting surface. Install the power cable (red is +, black is -), antenna and all other auxiliary cables and accessories.

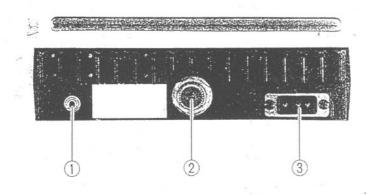
Install the radio into the mounting bracket and connect all cables and accessories to the appropriate jacks and connectors.

## CONTROLS AND INDICATORS



- ① **Microphone Connector** . . . Plug your Microphone here.
- (2) ON/OFF VOLUME Knob... Turns power on and adjusts volume level.
- SQUELCH Knob . . . Used to silence the background noise when no signal is being received. Turn the knob just past the point where background noise stops.
- ① **DIM Control** . . . Adjusts the brightness of both LCD and the keyboard backlighting for night operation.
- (5) Key Board . . . Selects the desired channel. LCD display shows CH-1 through CH-88. For channels 1 through 9, first you must depress "0" then the desired channel number. If you attempt to enter CH. 75, 76 and channels other than VHF marine channels, which are Ch. 29 59, and 89 99, the letter "E" will flash in the LCD display and also "70" will flash when Ch. 70 is selected for transmit on international channels. To continue normal use of the radio, make a proper channel selection.
- © LCD . . . Provides indication of channel and function even in brightest sunlight.

## **REAR PANEL CONNECTORS**



- TREMOTE Speaker Connector . . . If you desired to use another speaker in addition to the one in the unit, a four or eight ohm speaker equipped with a miniature phone plug may be connected to this jack.
- ② DC Power Connector . . . Battery connections are to be made with the cable supplied to mate with this connector. Remember, red is +, black is -. The power cord is equipped with a fuse to protect the radio. Use only a Six (6) AMPERE fast blow fuse for replacement.
- ③ ANT Connector . . . This connector is for connection of the antenna. A type PL259 connector is required to make proper connection.

Note: The radio must be connected to a power source for the memory to function properly. Remember note of disconnect the power cable, or you will lose the memory. However, when this unit is not going to be used for a long period of time, be sure to disconnect the power cable for safety because the current of less than ImA is fed for memory back-up even after the radio is OFF. (But in this case, you will lose the memory.)

## **CARE AND MAINTENANCE**

Your MC790 is a precision piece of electronic equipment and you should treat it accordingly. Due to the rugged design, very little maintenance is required, however, a few precautions should be observed.

If your radio has been accidentally subjected to splay or splash you should immediately wipe it down with a soft cloth dampened with fresh water.

If the antenna has been damaged, you should not transmit except in case of emergency. A defective antenna may cause damage to your radio.

#### KEY FUNCTION

SCAN

This key turns on the Memory Scan and gives you "SCAN" on LCD. If the squelch is in operation and Scan Memory Channels are programmed, Scan starts its operation. While it is on, the second digit of the channel number shows movement indicating that the Scan is on.

When the radio receives a signal on a programmed channel while Memory Scan is on, and squelch opens, it indicates its channel number and stays on that channel. When the signal is gone, squelch closes and Memory Scan is reactivated.

MANUAL

This key is used to check Memory Scan or when all the memory scan is deleted. It is also used when "0" is flashing by mispressing the scan key with no channel number programmed in memory scan. If you press this key in a normal operation, it shows each channel number programmed in Memory Scan.

ENTER

This is the key to turn on the Memory Scan Channel. Select the channel you wish to program, then press the ENTER Key. "MEM" is indicated on the left hand of the channel number to indicate that the program is completed.

DELETE

This key deletes the programmed Memory Scan Channel(s). When this key is pressed, the lowest numbered channel in the Memory Scan is indicated and deleted. If you keep pressing it, the next lowest channel number is indicated for deletion. "O" flashes when all the memory scan channels are deleted.



These keys are used to program channel numbers. The first number you press becomes the first digit, and if the second digit is not programmed within 10 seconds after the first one, it returns to the previous channel. When the selected channel number does not exist, "E" flashes.



3 DUAL

By pressing this key, "DUAL" is indicated on the display. Every one and a half seconds, it monitors CH16. If the receiver hears a signal on CH16, it locks onto that channel. When the signal stops, it returns to monitoring CH16 every one and a half seconds. "DUAL" can be operated along with Memory Scan. By pressing the "DUAL" key, it can be cancelled.



By pressing this key, the power out-put can be changed to 1W and it will be indicated on LCD. By pressing this key again, the power out-put returns to 25W and the indication on LCD will be turned off.



This key gives you international channels or USA channels with an indication of "INT" or "USA" on the display. When the radio is activated, international channels are automatically available and by pressing the key, it goes to USA channels.



This key gives you instant access to channel 16 and "16" will be indicated on LCD when you press it.



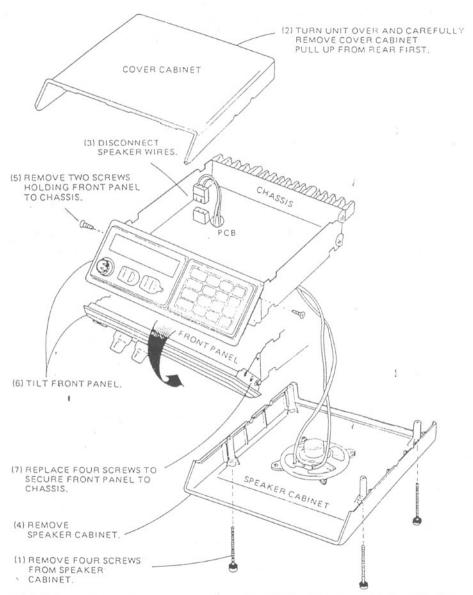
This key gives you instant access to channel 87A and "8<sub>7</sub>" will be indicated on LCD when you press it. If channel 87A is selected from keyboard while operating U.S.A. channels, LCD WILL FLASH "0".

#### NOTE:

The MC790 has a self-check function to indicate malfunctions due to overly high incoming noise levels and sudden, drastic changes of power voltage levels when the unit is on. This self-check will illuminate all segments of the LCD when triggered. If this should occur, turn unit off, then back on to reset the microprocessor chip. The programmed functions will not be erased as long as the Back-up Battery is functioning.

Please read the Owner's Manual carefully before operating your unit.

## REVERSING THE FRONT PANEL



- (8) CAREFULLY REPLACE COVER CABINET BUT ON BOTTOM OF RADIO INSERT UNDER FRONT PANEL FIRST AND THEN LOWER AT REAR OF RADIO.
- (9) TURN RADIO OVER AND RECONNECT SPEAKER WIRE LEADS
- (10) REPOSITION SPEAKER CABINET ON TOP OF RADIO AND REPLACE FOUR SCREWS TO SECURE THE HOUSING.
- (11) RETIGHTEN FOUR APPEARANCE COVER SCREWS.

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## **ENGINE NOISE SUPPRESSION**

Interference from the impulse noise generated by the electrical systems of engines is sometimes a problem with radios. The MC790 has been designed to be essentially impervious to ignition impulse noise and alternator noise. However, in some installations it may be necessary to take measures to further reduce the effect of noise interference. All DC battery

wires, antenna lead, and accessory cables should be routed away from the engine and engine compartment and from power cabling carrying particularly high currents.

In severe cases of impulse noise interference, it may be necessary to install a noise suppression kit that is available from your Marine Dealer.

## VHF FM MARINE RADIOTELEPHONE CHANNELS AND FUNCTIONS (U.S.A. CHANNELS)

O1	SHIP  156.050 156.150 156.150 156.200 156.250 156.300 156.450 156.450 156.500 156.650 156.650 156.650 156.650 156.650 156.650	SHORE 156.050 156.100 156.150 156.250 156.250 156.300 156.450 156.450 156.500 156.650 156.650 156.750 156.850	VTS Port Ops Port Ops Port Ops VTS Safety Com1 Com1 Com1 Com1 Com1 Port Ops Navigational Port Ops Environmental Safety Calling	Yes	Yes Yes Yes Yes Yes Yes No Yes No Yes	Coast Guard
02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	156.100 156.150 156.200 156.250 156.300 156.350 156.400 156.450 156.500 156.550 156.600 156.650 156.800 156.800 156.850 156.900 156.950	156.100 156.150 156.200 156.250 156.300 156.300 156.450 156.450 156.500 156.550 156.650 156.700 156.750 156.750	Port Ops Port Ops Port Ops VTS Safety Com1 Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes	Yes Yes Yes Yes No Yes	
03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	156.100 156.150 156.200 156.250 156.300 156.350 156.400 156.450 156.500 156.550 156.600 156.650 156.800 156.800 156.850 156.900 156.950	156.100 156.150 156.200 156.250 156.300 156.300 156.450 156.450 156.500 156.550 156.650 156.700 156.750 156.750	Port Ops Port Ops Port Ops VTS Safety Com1 Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes	Yes Yes Yes Yes No Yes	
03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	156.150 156.200 156.250 156.300 156.350 156.450 156.450 156.500 156.550 156.650 156.650 156.650 156.650 156.850 156.850 156.850 156.950	156.150 156.200 156.250 156.300 156.300 156.400 156.450 156.550 156.650 156.650 156.700 156.750 156.750	Port Ops Port Ops Port Ops VTS Safety Com1 Com1 Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes	Yes Yes Yes No Yes Yes Yes Yes Yes Yes	
04 05 06 07 08 09 10 11 12 13 14 15 16 17 18	156.200 156.250 156.300 156.350 156.400 156.450 156.500 156.550 156.650 156.650 156.600 156.850 156.800 156.850 156.950	156.200 156.250 156.300 156.300 156.300 156.450 156.500 156.500 156.650 156.700 156.750 156.750 156.850	Port Ops VTS Safety Com1 Com1 & Non Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes	Yes Yes No Yes No Yes Yes Yes Yes Yes Yes Yes	
05 06 07 08 09 10 11 12 13 14 15 16 17 18	156.250 156.300 156.350 156.400 156.450 156.500 156.550 156.600 156.650 156.600 156.800 156.850 156.900 156.950	156.250 156.300 156.300 156.450 156.450 156.500 156.550 156.650 156.650 156.700 156.750 156.750	VTS Safety Com1 Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No Yes Yes Yes Yes Yes	
06 07 08 09 10 11 12 13 14 15 16 17 18	156.300 156.350 156.400 156.450 156.500 156.550 156.550 156.650 156.700 156.850 156.850 156.950	156.300 156.350 156.450 156.450 156.500 156.550 156.650 156.700 156.750 156.750 156.850	Safety Com1 Com1 Com18 Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes Yes Yes Yes	No Yes No Yes Yes Yes Yes Yes	
07 08 09 10 11 12 13 14 15 16 17 18	156.350 156.450 156.450 156.550 156.550 156.650 156.700 	156 350 156 450 156 450 156 500 156 550 156 650 156 700 156 750 156 800 156 850	Com1 Com1 & Non Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes Yes Yes Yes	Yes No Yes Yes Yes Yes Yes	
08 09 10 11 12 13 14 15 16 17 18 19 20	156.400 156.450 156.500 156.550 156.600 156.650 156.700 	156.400 156.450 156.500 156.500 156.600 156.650 156.700 156.750 156.800 156.850	Com1 & Non Com1 Com1 & Non Com1 Com1 Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes Yes Yes	Ves Yes Yes Yes Yes Yes	Fish
09 10 11 12 13 14 15 16 17 18 19 20	156.450 156.500 156.550 156.600 156.650 156.700 — 156.800 156.850 156.950	156.450 156.500 156.550 156.600 156.650 156.700 156.750 156.850	Com'l & Non Com'l Com'l Com'l Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes Yes Yes	Yes Yes Yes Yes Yes	Fish
10 11 12 13 14 15 16 17 18 19 20	156.500 156.550 156.600 156.650 156.700 	156.500 156.550 156.600 156.650 156.700 156.750 156.850	Com'i Com'i Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes	Yes Yes Yes Yes	Fish
11 12 13 14 15 16 17 18 19 20	156.550 156.600 156.650 156.700  156.800 156.850 156.900 156.950	156.550 156.600 156.650 156.700 156.750 156.800 156.850	Com'l Port Ops Navigational Port Ops Environmental	Yes Yes Yes Yes	Yes Yes Yes	
12 13 14 15 16 17 18 19 20	156.600 156.650 156.700  156.800 156.850 156.900 156.950	156.600 156.650 156.700 156.750 156.800 156.850	Port Ops Navigational Port Ops Environmental	Yes Yes Yes	Yes Yes	
13 14 15 16 17 18 19 20	156.650 156.700 — 156.800 156.850 156.900 156.950	156.650 156.700 156.750 156.850	Navigational Port Ops Environmental	Yes Yes	Yes	
14 15 16 17 18 19 20	156.700 	156.700 156.750 156.800 156.850	Port Ops Environmental	Yes		
15 16 17 18 19 20	- 156.800 156.850 156.900 156.950	156.750 156.800 156.850	Environmental		Yes	
16 17 18 19 20	156.850 156.900 156.950	156.800 156.850				
17 18 19 20	156.850 156.900 156.950	156.850		RX Only	RX Only	Environmental
18 19 20	156.850 156.900 156.950	156.850	2 Meth Caming	Yes	Yes	2
19 20	156.900 156.950		State Control	Yes	Yes	
19 20	156.950	156.900	Com'I	Yes	Yes	
20		156.950	Comi	Yes	Yes	
		161.600				
	157.000		Port Ops	Yes	Yes	1021 1 1021
		157.050	Coast Guard	Yes	Yes :	Coast Guard
22	157.100	157.100	Coast Guard	Yes	Yes	Coast Guard
23	157.150	157.150	Coast Guard	Yes	Yes	Coast Guard
24	157.200	161800	Public Corresp	No	Yes	Busy Tel.
25	157.250 i	161.850	Public Corresp	Ner	Yes.	Busy Let
26	157.300	161.900	, Public Corresp	No	Yes	Busy Tel.
27	157.350	161.950	Public Corresp.	No	Yes	Busy Tel.
28	157.400	162.000	Public Corresp.	No	Yes	Busy Tel.
60	156.025	156.025				
61	156.075	156.075				
62	156.125	156.125				
63	156.175	156.175				
64	156.225	156.225				
65	156.275	156.275	Port Ops	Var		
66	156.325	156.325		Yes	Yes	
67			Port Ops	Yes	Yes	
	156.375	156.375	Com'I	Yes	No :	
68	156.425	156.425	Non Com'i	Yes	Yes	Fish
69	156.475	156.475	Non Com'l	Yes	Yes	Fish
70	156.525	156.525	Non Com'l	Yes	No :	Fish
71	156.575	156.575	Non Com'l	Yes	Yes	Fish
72.	156.625	156.625	Non Com'l	Yes	No !	Fish
73	156.675	156.675	Port Ops	Yes	Yes	and the second
74	156.725	156.725	Port Ops	Yes	Yes	
77	156.875	156.875	Port Ops	Yes	No	
78	156.925	156.925	Non Com'l	Yes	Yes	Fish
79	156.975	156.975	Com'l	Yes	Yes	£ 1511
80	157.025	157.025	Comil	Yes	Yes	
81	157.075	157.075	Coast Guard			C C
82	157.125	157.125		Yes	Yes	Coast Guard
			US Gov Only	Yes	Yes	
83	157.175	157.175	Coast Guard	Yes	Yes	Coast Guard
84	157.225	161.825	Public Corresp.	No	Yes	Busy Tel.
85	157.275	161.875	Public Corresp.	No	i i Yes	Busy Tel.
86	157.325	161.925	Public Corresp.	No	Yes	Busy Tel.
87	157.375	161.975	Public Corresp.	No	Yes	Busy Tel.
88	157.425	162.025	Com'l	Yes	: No :	Busy Tel.
			1	, , , , ,	140	Jusy ICI.
				i		

## VHF FM MARINE RADIOTELEPHONE CHANNELS AND FUNCTIONS (INTERNATIONAL CHANNELS)

CHANNEL DESIGN	FREQUENCY (MHz)		TYPE	SHIP	SHIP	PERMANENT
	SHIP	SHORE	TRAFFIC	TO SHIP	TO SHORE	SCAN LIST
01	156.050	160.650	i VTS	Yes	Yes	
02	156.100	160.700	Port Ops	Yes	Yes	
03	156,150	160.750	Port Ops	Yes	Yes	
04						
	156.200	160.800	Port Ops	Yes	Yes	**
05	156.250	160.850	VTS	Yes	Yes	
06	156.300	156.300	Safety	Yes	No	
07	156 350	160 950	ComT	Ye	Yes	
OB	156.400	156 400	ComT	. Yes	No	
09 "	156,450	156.450	Com'l & Non Com'l	. Yes	Yes	Fish
10	156.500	156.500	Com'l	Yes	Yes	
11	156.550	156.550	Com'l	Yes	Yes	
					10000000	
12	156.600	156.600	Port Ops	Yes	Yes	10
13	156.650	156.650	Navigational	Yes	Yes	
14	156.700	156.700	, Port Ops	Yes	Yes	
15	156.750	156.750	Environmental	Yes	Yes	Environmenta
16	156.800	156.800	Safety Calling	Yes	Yes	
17	156.850	156.850	State Control	Yes	Yes	
18	156.900	161.500	Com'l		Yes	10
				Yes I,		
19	156.950	161.550	Com'l	Yes	Yes	
20	157.000	161.600	Port Ops	Yes	Yes	
21	157.050	161.650	Coast Guard	Yes	Yes	
22	157.100	161.700	Coast Guard	Yes	Yes	
23	157.150	161.750	Coast Guard	Yes	Yes	
24	157.200	161.800	Public Corresp	No	Yes	Busy Tel.
25						
	157.250	161 850	Public Corresp	No .	Yes	Busy Tel.
26	152,300	161.900	Public Corresp.	No	Yes	Busy Tel.
27	157.350	161.950	Public Corresp.	! No	Yes	Busy Tel.
28	157.400	162.000	Public Corresp.	, No	Yes	Busy Tel.
60	156 025	160.625		:		
61	156.075	160.675			1	
62	156.125	160.725	i	1		
63						
	156.175	160.775				
64	156.225	160.825			1000	
65	156.275	160.875	Port Ops	: Yes	Yes	
66	156.325	160.925	Port Ops	Yes	Yes	
67	156.375	156.375	Com'l	Yes	No	
68	156.425	156.425	Non Com'l	Yes	Yes	Fish
69	156.475	156.475	Non Com'i	Yes	Yes	Fish
	130.473					
70		156.525	Non Com'I	Yes	No	Fish
71	156.575	156.575	Non Com'I	Yes	Yes	Fish
72	156.625	156.625	Non Com'i	Yes	Ņo	Fish >
73	156.675	156.675	Port Ops	Yes	Yes	
74	156,725	156.725	Port Ops	Yes	Yes	
77	156 875	156.875	Port Ops	Yes	No	
78	154.026	161.525	Non Com'l	Yes	Yes	
79	156.925				1 7 7 7	
	150.7/5	161.575	Com'l	Yes	Yes	
80	157.025	161.625	Com'l	Yes	Yes	
81	157.075	161.675	Coast Guard	Yes	Yes	Coast Guard
82	157.125	161.725	US Gov Only	Yes	Yes	
83	157.175	161.775	Coast Guard	Yes	Yes	Coast Guard
84	157.225	161.825	Public Corresp.	No	Yes	Busy Tel.
85						
	157.275	161.875	Public Corresp.	No	Yes	Busy Tel.
86	157.325	161.925	Public Corresp.	No	Yes	Busy Tel.
87	157.375	161.975	Public Corresp.	· No	Yes	Busy Tel.
87A	157.375	157.375				
88	157.425	162.025	Com'l	Yes	No	Busy Tel.
		1 .02.023		. ( )		Just ici.

CAUTION: OPERATION ON CHANNELS 15 AND 17 HAS BEEN ELECTRONICALLY RESTRICTED TO LOW POWER TO PROTECT CH.16, THE DISTRESS FREQUENCY.

## **SPECIFICATIONS**

GENERAL

Channels : Transmit 55

Receive 80

Frequency Control

: PLL synthesizer

Method

Antenna Impedance: 50 ohms, nominal : 2.85 inch, 8 ohms

Speaker Microphone

: Rugged 600 ohms dynamic element with coiled cord

and plug-in connector

Channel Display

: LCD

: ±0.001%

Frequency Stability

Operating Tempera- : ±20°C to +50°C

ture Range

Shock and Vibration: Meets or exceeds EIA standards, RS152B and RS204C Size

: 7-1/4"W (185m/m) x 9-5/8"L (245m/m) x 2-1/4"H

(58m/m)

Weight

: 1.6 kg

Controls

: On-Off/Volume, Squelch & Dimmer controls, Rey Board : Antenna, microphone, remote speaker, DC power

Connectors Frequency Range

: 156 to 158 MHz transmit

156 to 163 MHz receive Lights and Indicators: Channel Number, TX, 25W, 1W, USA, INT, DUAL,

SCAN, MEM, Backlight Key Board & LCD.

Standard Accessories: Plug-in microphone, mounting bracket and hardware,

DC power cord, mike hanger, spare fuse, owner's

manual

Supply Voltage.

: 13.8V DC negative ground

TRANSMITTER

Power Output

: 25 or 1 watt (keypad selectable) Power Requirement : 25 watts output: 5.0A @ 13.8V DC

1 watt output : 1.0A @ 13.8V DC

Modulation

: FM, ±5 kHz deviation

Hum and Noise

: 40 dB

Attenuation

Audio Distortion

: Less than 5% with 3 kHz deviation with 1000 Hz

modulating frequency  $: -70 \, dB$ 

Spurious Emission Output Transistor

: Built-in

Protection

Output Power

: Built-in automatic level control (ALC)

Stabilization

## **SPECIFICATIONS**

#### RECEIVER

: 0.35 uV for 12 dB SINAD Sensitivity

0.50 N for 20 dB S/N

Threshold Squelch

: 0.20 uV (EIA method)

Sensitivity

Tight Squelch

: 2.0 µV (EIA method)

Sensitivity

Spurious Response

: 75 dB

Attenuation

Image Response

: 75 dB

Attenuation

Intermodulation

: 65 dB @ 12 dB SINAD

Attenuation

Adjacent Channel

: 70 dB (EIA method)

Rejection Selectivity : ± 7.5 kHz ( 6 dB down

+ 15 kHz @ 60 dB down

Audio Output Power: 3.5 watts minimum at 10% distortion at 1 kHz modula-

tion and  $\pm 3.5$  kHz deviation (4 ohm speaker)

Power Requirement :: 0.6A (# 13.8V DC, squelched

1.2A @ 13.8V DC at rated audio output

IF Frequencies

?: 1st - 21.4 MHz

2nd - 455 kHz

Hum and Noise Level: -50 dB (EIA method)

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