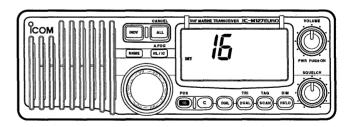


INSTRUCTION MANUAL

VHF MARINE TRANSCEIVER

IC-M127EURO



Icom Inc.

IN CASE OF EMERGENCY

If your vessel requires assistance, contact other vessels and the Coast Guard by sending a distress call on channel 16.

USING CHANNEL 16
DISTRESS CALL PROCEDURE
1. "MAYDAY MAYDAY MAYDAY"
2. "THIS IS ______" (name of vessel)
3. Your call sign or other indication of the vessel (AND 9-digit DSC ID if you have one).
4. "LOCATED AT ______" (your position)
5. The nature of the distress and assistance re-

6. Any other information which might facilitate the

Or, transmit your distress call using digital selective calling on channel 70 (the optional UX-130 DSC UNIT must be installed).

USING DIGITAL SELECTIVE CALLING (ch 70)
 (UX-130 required)

DISTRESS CALL PROCEDURE

- 1. Push and hold [DISTRESS] for 5 sec. until you hear 5 short beeps change to one long beep.
- Wait for an acknowledgment from a coast station.
 - When received, channel 16 is automatically selected.
- 3. Push and hold [PTT], then transmit the appropriate information as at left.

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rescue.

TABLE OF CONTENTS

			OTHER FUNCTIONS21 – 25	9
£ 7	SNOIT40	15	81 381 BSO DSO galivieoeA ■	
ZÞ	SPECIFICATIONS	11	Address input mode	
			ווומוגומתמו כמון זומוסונווססוטו	
10-00	WHF MARINE CHANNEL LIST	U۲	▶ All ships call transmission 15	
6£	твоивсезноотіме	6	Pistress call transmission ■	
			£t	
85.	051-XU əht grillstari ■		DIGITAL SELECTIVE CALLING13 – 20	l þ
	86-TU ərlt gnillstənl ■	_		
86		8	©hannel names	-
٠٠٠٠٠٠٠	gninsəl⊃ ■		■ Display backlighting	
	■ Fuse replacement		Tf	
75	antenna ■		■ Scan function	
	■ Mounting the transceiver		9 Transmitting	
			8 Receiving	
70	■ Basic connections Basic connections in Table 1 or Instrumental Instru		9 Channel selection	ı
			9 NO 1ewo¶ ■	ı
10	■ orbosoms		St - 8 6 - 12	3 1
	■ Unpacking			
31 – 32	CONNECTIONS AND MAINTENANCE	Z	γ γ γ γ γ slqsib noitonal \blacksquare	
92	SET mode items anotie abom T∃S ■		Z Panel	
	■ Entering SE7 mode		PANEL DESCRIPTION2 - 5	2
	SET MODE	9	OPERATING RULES)
52	Displaying poitisod privslqsid ■		iii	ιΑΟ
	■ Internal speaker ON/OFF		iii TNATAO	
2¢	mod got sitsmotuA =		SLE OF CONTENTSii	BAT
SS	■ Intercom operation		SASE OF EMERGENCYi) NI

IMPORTANT

Read all instructions carefully and completely before using the transceiver.

Save this instruction manual—This instruction manual contains important operating instructions for the IC-M127EURO.

You must have a DSC vessel ID in order to operate the optional DSC functions of the transceiver. See your Dealer for details.



The IC-M127EURO complies with essential requirements of the 89/336/EEC directive for Electromagnetic Compatibility.

CAUTIONS

⚠ WARNING NEVER connect the transceiver to an AC outlet. This may pose a fire hazard or result in an electric shock.

⚠ WARNING HIGH VOLTAGE! NEVER touch the antenna or an internal antenna connector during transmission. This may result in an electric shock or a burn.

NEVER connect the transceiver to a power source of more than 16 V DC. This connection will ruin the transceiver.

WHEN INSTALLING THE DSC UNIT

NEVER transmit a distress call when your vessel does not need immediate help. Distress calls can be used only in times of emergency.

AVOID using or placing the transceiver in direct sunlight or in areas with temperatures below –20°C (–4°F) or above +60°C (+140°F).

DO NOT operate the transceiver without running the vessel's engine. When your vessel's engine is OFF and the transceiver is transmitting, the vessel's battery will soon become exhausted.

KEEP the transceiver out of the reach of children.

KEEP the transceiver and microphone at least 1 meter away from your vessel's magnetic navigation compass.

OPERATING RULES

♦ Priorities

- ☐ Read all rules and regulations pertaining to priorities and keep an up-to-date copy handy. Safety and distress calls take priority over all others.
- □ You must monitor channel 16 when you are not operating on another channel.
- ☐ False or fraudulent distress calls are prohibited under law.

♦ Privacy

- Information overheard but not intended for you cannot lawfully be used in any way.
- ☐ Indecent or profane language is prohibited.

♦ Radio licenses SHIP STATION LICENSE

You must have a current radio station license before using the transceiver. It is unlawful to operate a ship station which is not licensed.

Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for radio purposes.

OPERATOR'S LICENSE

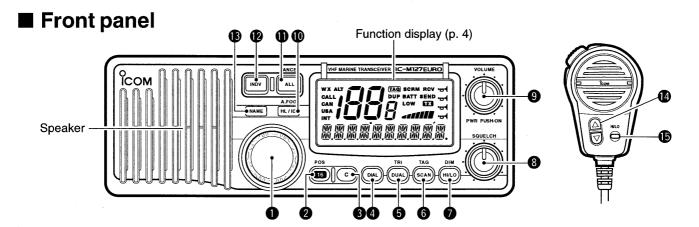
A restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes.

The Restricted Radiotelephone Operator Permit must be posted near the transceiver or be kept with the operator. Only a licensed radio operator may operate a transceiver.

However, non-licensed individuals may talk over a transceiver if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

PANEL DESCRIPTION



1 CHANNEL SELECTOR [CHANNEL]

Selects an operating channel in the selected channel group.

2 CHANNEL 16 SWITCH [16 • POS]

- Selects channel 16. (p. 6)
- Push for 1 sec. to display your position (when a GPS receiver is connected). (p. 25)

3 CALL CHANNEL SWITCH [C]

- Selects the call channel—the call channel is programmable. (p. 6)
- Push and hold to activate the optional voice scrambler function (optional UT-98 is required). (pgs. 8, 38)

4 DIAL SWITCH [DIAL]

- Selects the International channel group. (p. 7)
- For U.K./Italy versions, the U.S.A. channel group is also available. To toggle between international and U.S.A. channels, push and hold this switch for 1 sec. (p. 7)

5 DUAL/TRI-WATCH SWITCH [DUAL • TRI] (p. 8)

- Activates dualwatch for checking channel 16.
- Push for 1 sec. to activate tri-watch for checking channel 16 and the call channel.

6 SCAN SWITCH [SCAN • TAG]

Starts and stops normal or priority scan when tag channels are programmed. (p. 10)

 Push for 1 sec. to toggle the tag setting for the displayed channel. (p. 10)

THIGH/LOW POWER SWITCH [HI/LO • DIM]

- Toggles between high and low output powers. (p. 9)
- While pushing, rotate the channel selector or push the [▼]/[▲] switches on the microphone to adjust the display and control/switch backlighting intensity. (p. 11)

3 SQUELCH CONTROL [SQUELCH]

Rotate clockwise to eliminate audio noise. (p. 8)

9 POWER/VOLUME CONTROL [PWR/VOL] (p. 8)

- Push to turn power ON/OFF.
- Rotate to adjust the audio output.

(I) HAILER/INTERCOM SWITCH [HL/IC • A.FOG]

- Selects/turns OFF the hailer and intercom functions. (pgs. 21, 22)
- Push for 1 sec. to activate the auto fog horn function.
 (p. 24)

1 ALL SHIPS CALL/STOP DISTRESS SWITCH [ALL/CANCEL] (p. 15)

- Push and hold to send an all ships call (UX-130 is required).
 - Three categories (distress, safety and urgency) are selectable.
- Push momentarily to cancel distress calls in progress.

PINDIVIDUAL CALL SWITCH [INDV] (p. 16)

Push and hold to send an individual DSC call (UX-130 is required).

(B) CHANNEL NAME SWITCH [NAME]

Push to enter name input mode. (p. 12)

The channel up/down switches [▼]/[▲]

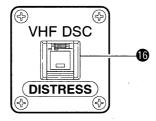
- Select an operating channel in the selected channel group.
 - These switches can be used instead of the transceiver's channel selector.

HIGH/LOW POWER SWITCH [HI/LO]

The same function as the transceiver's front panel.

- Toggles between high and low output powers. (p. 9)
- While pushing, rotate the channel selector to adjust the display and control/switch backlighting intensity. (p. 11)

■ Distress switch box (UX-130 required)

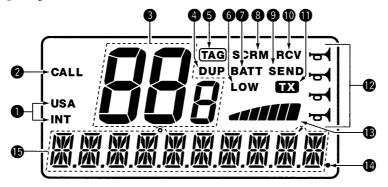


(b) DSC DISTRESS SWITCH [DISTRESS]

Lift the cover, then push and hold for 5 sec. to transmit a DSC distress call. (p. 14)

2 PANEL DESCRIPTION

■ Function display



- **1** MODE INDICATORS (p. 7)
 - ⇒ "INT" shows International channels are selected.
 - "USA" shows USA channels are selected.
 - USA channels are only available for U.K. and Italy versions.
- **2** CALL CHANNEL INDICATOR

Appears when the call channel is selected. (p. 6)

3 CHANNEL INDICATOR

Shows the operating channel. (p. 7)

4 DUPLEX INDICATOR

Appears when the selected channel is a duplex channel.

15 TAG CHANNEL INDICATOR

Appears when the selected channel is set as a tag channel. (p. 10)

6 LOW POWER INDICATOR

Shows that low output power is selected. (p. 9)

PANEL DESCRIPTION 2

10 LOW BATTERY INDICATOR

Appears when the vessel's battery voltage drops below 11 V. (p. 6)

3 VOICE SCRAMBLER INDICATOR

Appears while the optional voice scrambler is activated. (p. 8)

9 SEND INDICATOR

Appears when DSC information has been transmitted. (pgs. 13–20)

® RECEIVE INDICATOR

Appears when DSC information has been received. (pgs. 13-20)

1 TRANSMIT INDICATOR

Appears while transmitting. (p. 9)

P AUTO FOG HORN INDICATORS

Appear when the auto fog horn function is activated. The number of indicators varies according to the selected fog horn type. (p. 24)

® S/RF INDICATOR

- Shows the relative signal strength while receiving.
- ⇒ Shows whether high or low output power is selected while transmitting. (pgs. 8, 9)

12 NMEA INDICATOR

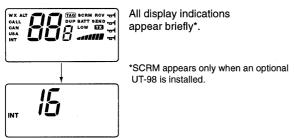
Appears when NMEA devices (such as a GPS receiver) are connected. (p. 35)

(b) ALPHANUMERIC READOUT

- → Displays channel names during regular operation. (p. 12)
- ⇒ Displays position and UTC time when [16 •POS] is pushed for 1 sec. (p. 25)
- ➡ Displays selected functions, DSC information, set mode items, etc. depending on operation.

Power ON

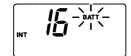
① Push [PWR] in to turn power ON.



② Operate the transceiver as indicated in the following sections.

♦ Low voltage indicator

When "BATT" appears and flashes as shown at right, the vessel's battery voltage has dropped below 11 V, indicating there is a DC



power source problem. In this case, check your vessel's battery and DC power cable.

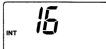
■ Channel selection

♦ Channel 16

Channel 16 is the distress channel. It is used for establishing initial contact with another station and for emergency communications. Channel 16 is monitored during dualwatch/triwatch. While standing by you are required to monitor channel 16.

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♦ Call channel

The call channel is used to store your most often-used channel for quick recall. In addition, the call channel is monitored during tri-watch.

Push



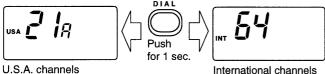


"CALL" indicates that the call channel is selected.

♦ U.S.A. and international channels (U.K. and Italy versions only)

There are 55 international and 61 U.S.A. channels. These channel groups may be specified for the operating area.

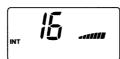
- ① Push [DIAL] to select a regular channel.
- 2 Rotate the channel selector to select a channel.
 - "DUP" appears for duplex channels.
- 3 To change the channel group, push [DIAL] for 1 sec.
 - U.S.A. and international channels are toggled.



NOTE: When "DUP" appears in the display the selected channel is a *duplex channel*. Duplex channel are used for ship-to-coast communications. When "DUP" does not appear in the display, the selected channel is a simplex channel. Simplex channels are used for ship-to-ship communications.

Receiving

- ① Push [PWR] to turn power ON.
- 2 Rotate [SQUELCH] fully counterclockwise.
- 3 Rotate [VOLUME] to obtain a suitable listening level.
- Rotate [SQUELCH] clockwise until the audio noise disappears.
- ⑤ Select the desired channel. See pgs. 6–7 for details.
 - When a signal is received:
 - ♦ The squelch opens;
 - Audio is emitted from the speaker;
 - ♦ The S/RF indicator shows the received signal strength.



SCRM

♦ Voice scrambler function

For confidential communications, use the optional voice scrambler function. All members of your group must have the UT-98 VOICE SCRAMBLER UNIT installed in order to communicate using this function.

- → Push [C SCRM] for 1 sec. to toggle the function ON and OFF.
 - "SCRM" appears when the function is ON.
 - This function cannot be used on CH 16.
 - Set the scramble code in SET mode in advance (p. 30).

♦ Dual/tri-watch functions

These functions allow you to conveniently check the distress channel (ch 16) or, both the distress and call channel (programmable) while receiving another channel. When receiving a signal on one of these channels, the transceiver stops on the channel until the signal disappears.

⇒ Push [DUAL • TRI] momentarily for dualwatch.





⇒ Push and hold [DUAL • TRI] for tri-watch.



the call channel every 2 sec.



When receiving a signal on the channel, the call channel is monitored while checking ch 16

Signals received on channel 16 have priority.



■ Transmitting

Before transmitting, read the call procedures at right.

- ① Select an operating channel. See pgs. 6, 7 for details.
- 2 Push [HI/LO] to select transmit output power.
 - "LOW" appears when low output power is selected.
 - High power cannot be selected on some channels. Refer to the channel list on pgs. 40, 41.
- 3 Push and hold the PTT switch to transmit.
 - " TX " appears.
- ④ Speak into the microphone at your normal voice level.
 - Do not hold the microphone too closely to your mouth or speak too loudly. This may distort the transmit signal.
- 5 Release the PTT switch to receive.

IMPORTANT: In order to maximize the readability of your transmitted signal, pause for a moment after pushing [PTT], hold the microphone 15–20 cm from your mouth, then speak into the microphone at an even, normal voice level.

CALL PROCEDURES

You must identify yourself when you transmit and you must respect time limits.

- Give your call sign each time you call another vessel or a coast station. If you have no call sign, identify the station by giving the vessel name and the name of the license.
- 2) Give your call sign at the end of each transmission that lasts more than 3 minutes.
- 3) You must pause and give your call sign at least once every 15 minutes during long ship-to-shore calls.
- 4) Keep your calls short (less than 3 minutes). Wait 2 minutes before repeating a call.
- 5) Unnecessary transmissions are not allowed.

■ Scan function

The transceiver has a high speed scan function for standing by on utility signals. The scan speed is 8 channels/sec.

Two scan types are available: *normal scan* (scans all tag channels in sequence) and *priority scan* (checks channel 16 while scanning and becomes dual watch while pausing on a regular channel—except for channel 16). These scans can be selected in SET mode (p. 28).

♦ Setting tag channels

You can specify channels as tag channels for efficient scanning. Tag channels can be set for each channel group (INT and USA) independently.

⇒ Select the desired channel, then push and hold [SCAN • TAG] for 1 sec. to toggle the tag setting.



Appears when the channel is specified as a tag channel.

✓ Clearing all tag channels:

While pushing [HI/LO], push and hold [SCAN • TAG] for 3 sec. until the long beep becomes 2 short beeps.

• All tag channels in the selected channel group are released.

♦ Scan operation

- ① Select the desired channel group (INT or USA) with [DIAL] (U.K., or Italy versions only).
- 2 Push [SCAN] to start scanning.
 - "N=5□AN" appears when normal scan is selected in SET mode.
 - "P-SEAN" appears when priority scan is selected in SET mode.
- 3 To stop the scan, push [SCAN] again.
 - "N-5ERN" or "P-5ERN" disappears.

✓ Scan resume timer:

When a signal is detected, scan pauses until the signal disappears or resumes after pausing 5 sec., according to the SET mode setting. (p. 28)

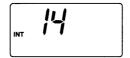
✓ Confirming tag channels:

While operating scan, rotate [CHANNEL].

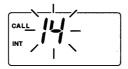
- Only tag channels are selected.
- Stop rotating [CHANNEL] to resume normal scan operation.

The call channel switch, [C], is used to select the call channel. Program your most often-used channel in each channel group for quick recall.

- ① Push [DIAL] for 1 sec. one or more times to select the desired channel group (INT or USA) to be programmed (U.K. and Italy versions only).
- ② Push [C] to select the call channel of the selected channel group.
 - "CALL" and the channel number appear.
- While pushing [HI/LO] push [C] to enter call channel write mode.
 - Channel number and channel group to be programmed flash.
- ④ Rotate the channel selector to select the desired channel.









- ⑤ Push [C] again to program the displayed channel as the call channel.
 - The channel number and channel group stop flashing.



■ Display backlighting

The function display and switches can be backlit for better visibility under low light conditions.

While pushing [HI/LO • DIM], rotate the channel selector or use [UP]/[DN] switches on the microphone to adjust the backlighting.

⇒ Backlighting can be set to 1 of 7 intensities or turned OFF.



Backlighting set to brightest



Backlighting turned OFF

■ Channel names

When shipped from the factory, the IC-M127EURO is programmed with default names for each VHF marine channel (refer to the *VHF MARINE CHANNEL LIST* on pgs. 40, 41). These defaults can be overwritten if desired.

- ① Rotate [CHANNEL] to select a channel to program.
- ② Push [NAME] momentarily.
 - The 1st character of the currently programmed name flashes.
- ③ Rotate [CHANNEL] to select a character.
- Push [HI/LO] to move to the right; then rotate [CHANNEL] to select the next character.
 - Pushing [SCAN] moves to the left.
- ⑤ Continue until the desired characters have been selected, then push [NAME] to return to normal operation.









Available characters

==	(=)	ł	(+)	(hy	phen)	×	(*)	,'	(/)
	(,)	(sp	ace)		(0)	1	(1)	2	(2)
3	(3)	L	(4)	5	(5)	5	(6)	Π	(7)
8	(8)	9	(9)	R	(A)	B	(B)	L	(C)
	(D)	E	(E)	F	(F)	5	(G)	H	(H)
I	(1)	J	(J)	K	(K)	L	(L)	M	(M)
N	(N)		(O)	b	(P)	U	(Q)	R	(R)
5	(S)	7	(T)	Ш	(U)	1'	(V)	14	(W)
X	(X)	Y	(Y)	7	(Z)	3	(a)	Ь	(b)
C	(c)	d	(d)	6	(e)	F	(f)	9	(g)
h	(h)	1	(i)	ل	(J)	K	(k)	- }	(l)
m	(m)	רז	(n)	O	(0)	b	(p)	9	(p)
۲-	(r)	5	(s)	Ŀ	(t)	L	(u)	1,'	(v)
Ш	(w)	X	(x)	냄	(y)	7	(z)		

DIGITAL SELECTIVE CALLING

General

When an optional UX-130 DSC UNIT is installed, digital selective calling (or DSC) can be used via the transceiver. DSC is a method of radio communications involving digital signals rather than the more conventional method of voice communications. The advantage of using digital communications over voice communications is that information (especially useful for distress calls and other urgent matters) can be preprogrammed into a radio and transmitted accurately.

In addition, when a GPS receiver (NMEA0183 ver. 1.5, 2.0 or 2.1) is connected, your vessel's position is transmitted together with the vessel's identity when making a distress call.

See p. 38 for unit installation.

DSC TYPE	DESCRIPTION	REF.
Distress call	This sends distress information which includes your vessel's ID (and position/UTC time data when a GPS receiver is connected). Send under <i>emergency conditions only.</i> DSC acknowledgement will be received from a coast station after making a distress call.	ing i
Distress relay call	This is used to alert Coast stations (or other ships) when a vessel in distress is unable to do so. The IC-M127euro can <i>only receive</i> this type of signal; not transmit.	p. 18
All ships call	This is used for non-emergency situations. This signal includes information which allows a receiving transceiver to automatically select channel 16 for voice communication.	pgs. 15, 18
Individual call	This allows you to send a signal to a specific vessel only. The transceiver can store up to 10 destination ID channels—select the desired ID in advance. Two kinds of acknowledgements (able to comply/unable to comply) are available (for sending or receiving) after an individual call.	pgs. 16, 19
Geographical area call	This is used for announcement to all ships in the specified area—when a GPS receiver is connected calls directed to areas other than yours are rejected. <i>Receive only</i> for the IC-M127euro.	p. 19

4 DIGITAL SELECTIVE CALLING

■ Distress call transmission

CAUTION: Distress calls may be transmitted under conditions of emergency only i.e. your vessel is in danger of sinking and/or a person's life is in danger.

- ① Lift the cover on the DSC box and push [DISTRESS] for 5 sec.
 - Channel 70 is automatically selected and a distress call is transmitted.
 - To cancel the distress call before the 5 sec. have elapsed, push [ALL • CANCEL] to return to the previous channel.



- ② The transceiver remains on channel 70 until an acknowledgement is received.
 - When no acknowledgement is received, the distress call is repeated at random intervals every 3.5 to 4.5 min. until an acknowledgement is received.
 - To cancel this, push [ALL CANCEL]—channel 16 is selected.
 - Calls to you other than distress acknowledgement cannot be received.

- ③ When a distress acknowledgement is received, emergency alarm sounds and channel 16 is automatically selected.
 - Push [ALL CANCEL] cancel the alarm.





- Transmit your distress call particulars by voice using the following procedure:
- 1. "MAYDAY."
- 2. "THIS IS (name of your vessel)."
- 3. The 9-digit identity AND the call sign (or other vessel identification).
- 4. Your vessel's position if DSC does not include it.
- 5. The nature of the distress and assistance required.
- 6. Any other information which might facilitate the rescue.

NOTE: When a GPS receiver (NMEA 0183) is connected, your vessel's position is automatically transmitted with the distress call.

NOTE: Acknowledgement of a DSC distress alert is normally made by coast stations only.

■ All ships call transmission

Large ships use channel 70 as their "listening channel." When you want to announce a message to these ships, use the "all ships call" function. The IC-M127EURO supports DSC Class F.

SELECT

lurgene y

ERT.

SEND

63

♦ Class F all ships call

- ① Push and hold [ALL].
 - Beeps sound, channel 70 is automatically selected and "SELECT CAT" appears in the the display.
- ② Rotate the channel selector until the desired category appears in the display.
- ③ Continue pushing [ALL] until the DSC alarm sounds and the DSC countdown finishes.
 - The all ships call is sent and channel 16 is automatically selected.
 - If [ALL] is released before the DSC countdown finishes, the all ships call is cancelled.

an announcement on ch 16 to all ships.



NOTE: Channel busy
When channel 70 is busy, the

Push and hold [PTT] to send

all ships call (category "urgency") is not transmitted. The transceiver waits until the channel is clear, then transmits the call automatically.

LOW LOW AND LOW AND LOW

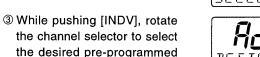
This display appears while the call is in standby.

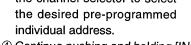
4 DIGITAL SELECTIVE CALLING

■ Individual call transmission

The individual call function allows you to transmit a DSC signal to a specific party only.

- ① Set the ID code for the individual you wish to call in advance (see p. 17).
- 2 Push and hold [INDV].
 - "SELECT ADR" appears.





- Continue pushing and holding [INDV] until you hear 4 short beeps change to one long beep.
 - 5 sec. later, channel 70 is selected and the individual call is transmitted to the selected station.
 - ROUTINE category only is available.







- ⑤ Standby on channel 70 until an acknowledgement is received.
- When the acknowledgement is received, the display changes as at right.
 - Beeps sound.
 - · Channel 16 is selected.





- Push and hold [PTT] to communicate your message to the responding party.
- NOTE: Unable to comply
 When the received acknowledgement includes "unable to comply," the message display changes as at right.





- NOTE: Channel busy error indication
- The same as for the all ships call. Refer to the previous page for details.

Address input mode

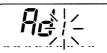
In order to place individual calls you must know the 9-digit address code of the vessel you wish to communicate with. The IC-M127EURO can be programmed with up to 10 separate address codes. When transmitting an individual call (p. 16) the address code last programmed is used. If no address codes have been programmed, the individual call function will not work.

- ① While pushing [C] and [DIAL], push [PWR] IN to turn power ON.
 - "INDV ADRS" appears for 1 sec. and address input mode is selected.
- ② Rotate the channel selector to select the address number to be programmed, "Ad0" to "Ad9."

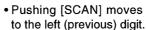


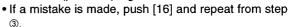
- "--"s appear instead of numbers when an address code is not yet programmed.
- 3 Push [16] to initiate code input, then rotate the channel selector to select a number for the 1st diait.
 - If a "--" is selected as one of the digits, the address is invalid.





4 Push [HI/LO] to move to the next digit, then rotate the channel selector to select a number.





5 To input a name to the set address, push [NAME]. then set the desired name with the channel selector.



- Use [HI/LO] and [SCAN] keys to move the cursor.
- @ Push [NAME] again to memorize the name.



7 Turn power OFF, then ON again to exit the address input mode.

■ Receiving DSC calls

Receiving a distress call

While monitoring channel 70 and a distress call is received:

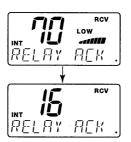
- ⇒ Emergency alarm sounds.
- → "RCV" and " ITSTRESS" appear; then, channel 16 is automatically selected.
- ⇒ Push [16] to stop the alarm.
- → Continue monitoring channel 16 as a coast station may require assistance.



♦ Receiving a distress relay acknowledgement

While monitoring channel 70 and a distress relay acknowledgement is received:

- ⇒ Emergency alarm sounds.
- → "RCV" and "RELR" REK" appear in the display; then, channel 16 is automatically selected.
- ⇒ Push [16] to stop the alarm.



♦ Receiving a distress relay call

While monitoring channel 70 and a distress relay call is received:

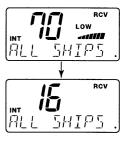
- ⇒ Emergency alarm sounds.
- → "RCV" and " JTR5 RELR"" appear in the display; then, channel 16 is automatically selected.
- ⇒ Push [16] to stop the alarm.
- Monitor channel 16 until the emergency communication has been completed.



♦ Receiving an all ships call

While monitoring channel 70 and an all ships call is received:

- ➡ Emergency alarm sounds when the category is "DIS-TRESS" or "URGENCY;" 3 beeps sound for other categories.
- "RCV" and "RLL SHIPS" appear in the display; then, the channel specified by the calling station is automatically selected for voice.

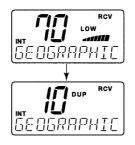


→ Monitor the selected channel for an announcement from the calling vessel.

Receiving a geographical area call

While monitoring channel 70 and a geographical area call (for the area you are in) is received:

- Emergency alarm or beeps sound depending on the received category.



- → Monitor the selected channel for an announcement from the calling ship.
- **NOTE:** When no GPS receiver is connected or if there is a problem with the connected receiver, all geographical area calls are received, regardless of your position.

Receiving an individual call

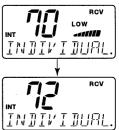
When receiving an individual call, an acknowledgement must be sent back to the calling station within 4.5 min. Operation and transceiver function differs depending on the SET mode settings.

Two messages can be selected for acknowledgement:

- "Able to comply"You can communicate with the calling vessel via the mic after a DSC connection.
- "Unable to comply"..........You cannot communicate with the calling vessel after a DSC connection (e.g. operator leaves transceiver).

While monitoring channel 70 and an individual call is received:

- Emergency alarm or beeps sound depending on the received category.
- → "RCV" and "INDIVIDUAL" appear in the display.
- → The channel specified by the calling station is automatically selected for checking the channel condition (except when full automatic acknowledgement is selected).
- Proceed as follows on the next page according to your preset conditions.



4 DIGITAL SELECTIVE CALLING

- When semi-automatic (SA; default) or manual (SL) is selected in SET mode (p. 30):
- ① Push and hold [INDV] until you hear 4 short beeps change into one long beep to send an "Able to comply" message.
 - If you want to send an "Unable to comply" message, or other individual call, rotate the channel selector to select them.
- ② The acknowledgement is automatically transmitted.
 - The channel specified by the calling station is selected.
 - When "Unable to comply" is transmitted in step ①, the transceiver remains on channel 70.
- ③ After receiving a voice transmission, reply via the mic.

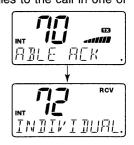


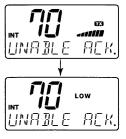


- When full automatic (FA) is selected in SET mode (p. 30):
- The transceiver automatically replies to the call in one of two ways, depending on the auto acknowledge setting in

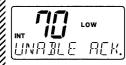
SET mode (p. 30).

- When able to comply is set (Ab), the transceiver automatically transmits an able to comply acknowledgement and then selects the channel as specified by the calling station for voice communications.
- When unable to comply is set (Un), the transceiver automatically transmits an unable to comply acknowledgement and remains on channel 70.





Differences between semi-automatic and manual



Semi-automatic: When no operation is performed, the transceiver automatically sends an "Unable to comply" acknowl-

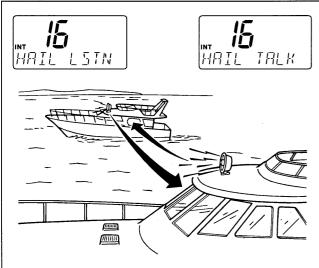
edgement 4.5 min. after the call is received.

Manual: When no operation is performed after receiving a call, NO acknowledgement is transmitted.

OTHER FUNCTIONS

■ Hailer operation

The IC-M127EURO has a 2-way hailer function for voice amplification and reception over the loudspeaker, making it unnecessary to leave the bridge to hear a hailing party.



- The external speaker emits your amplified voice and receives an answer from another vessel.
- Transmitting is impossible during hailer operation.
- When a radio signal is received, the S-meter shows signal strength.

♦ Preparation

- ① Connect an external speaker as illustrated on p. 32.
- ② When you need to have more power (up to 20 W), connect an optional UA-4 AUDIO AMPLIFIER. (p. 35)

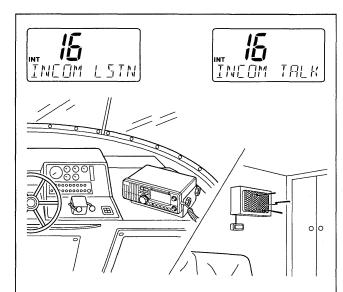
♦ Operation

- ① Turn the transceiver power ON.
 - The UA-4 is turned ON automatically if connected.
- ② Push [HL/IC] once.
 - "HAIL LSIN" appears.
- ③ Push and hold the PTT switch on the microphone and speak at a normal voice level into the microphone.
 - "HAIL TALK" appears.
 - To adjust the hailer level, rotate the channel selector while [PTT] is pushed—" HRILLLVL" appears.
- After releasing the PTT switch you can hear the response through the hailer speaker.
 - "HRIL L5TN" appears.
- ⑤ To return to normal operation, push [HL/IC] twice.
 - Other switches also turn the function OFF, however, the corresponding function activates e.g. pushing [16] selects channel 16.

5 OTHER FUNCTIONS

■ Intercom operation

The intercom function allows you to talk to the deck from the cabin. When you do not require the hailer function, you can use 2 separate intercoms.



- The external speaker functions as a speaker and a microphone.
- Transmitting is impossible during intercom operation.
- When a radio signal is received, the S-meter shows signal strength.

♦ Preparation

Connect an external speaker and an intercom switch as illustrated on p. 34.

♦ Operation from the transceiver

- ① Turn transceiver power ON.
- ② Push [HL/IC] twice.
 - "INCOM LSIN" appears.
- ③ Push and hold the PTT switch on the microphone and speak at a normal voice level into the microphone.
 - "INCOM TALK" appears.
 - To adjust the intercom level, rotate the channel selector while [PTT] is pushed—"INCOM LVL" appears.
 - To adjust the IC-M127's internal speaker output level, rotate [VOLUME].
- After releasing the PTT switch you can hear the response through the intercom speaker.
 - "INEOM LSIN" appears.
- ⑤ To return to normal operation, push [HL/IC] once.
 - Other switches also turn the function OFF, however, the corresponding function activates e.g. pushing [16] selects channel 16.

Operation from the intercom speaker

- ① Push and hold the intercom switch and speak into the speaker.
- ② Keep pushing the intercom switch to receive an answer.
- ③ Release the intercom switch to return the transceiver to cabin control of the intercom switch.

NOTE: While the intercom switch is pushed, the transceiver display appears as below. Transceiver functions (transmit and receive) are interrupted when the external intercom switch is turned ON. If the transceiver is transmitting, the intercom function is not available.



♦ Operation with 2 separate intercoms

When you connect 2 intercom switches and 2 intercom speakers to the transceiver, you can talk to two separate places such as the deck and the fly bridge.

Connect the switches and speakers as illustrated on p. 34 before operating with 2 speakers.

To output from intercom-1 speaker

- ① Push [HL/IC] once or twice to turn the intercom ON.
- 2 Push and hold the PTT switch and speak into the mic.

To output from intercom-2 speaker

- ① Push [HL/IC] once or twice to turn the hailer ON.
- ② Push and hold the PTT switch and speak into the mic.

When speaking from the intercom speakers

Push and hold intercom switch 1 or 2, then speak into the speaker as described at left.



Speak into intercom-1 speaker



Speak into intercom-2 speaker

NOTE: The hailer function CANNOT be used when you connect 2 intercom speakers.

5 OTHER FUNCTIONS

Automatic fog horn

The automatic fog horn function sounds a horn repeatedly until the function is turned OFF. Four horn patterns are available for varying conditions.

The fog horn outputs from the hailer speaker. To use this function, the hailer speaker must be connected to the transceiver. See pgs. 32 and 34 for connection details.

TYPE	DISPLAY	PATTERN	USAGE
1	ERLLING	One 5-second blast every 100 seconds.	Motor vessel underway and making way.
2	15 = ERLLING	Two 5-second blasts (separated by 2 seconds) every 100 seconds.	Motor vessel underway but stopped (not making way).
3	B ERLLING	One 5-second blast followed by two 1-second blasts (each separated by 2 sec- onds) every 100 seconds.	Sailing vessel underway, fishing vessel (underway or anchored), vessel not under command, a vessel restricted in her ability to maneuver (underway or at anchor), or a vessel towing or pushing another ahead.
4	EALLING	One 5-second blast followed by three 1-second blasts (each separated by 2 sec- onds) every 100 seconds.	Vessel under tow (manned).

The audio frequency of the fog horn is selectable. See p. 29 for details on selecting the audio frequency.

♦ Turning the auto fog horn ON and OFF

- ① Push [HL/IC A.FOG] for 1 sec.
 - One or more " → " appear indicating the selected fog horn pattern.
- ② Push [HL/IC A.FOG] for 1 sec. again to turn the function OFF.
 - " → " indications disappear.

Selecting a fog horn pattern

- ① Be sure the fog horn pattern is turned OFF.
 - When turned ON (one or more " → " appear), push and hold [HL/IC A.FOG] to turn the function OFF.
- 2 Push and hold [HL/IC A.FOG] until step 3 is finished.
- ③ After " •• " (one or more) appears, rotate the channel selector or microphone [UP]/[DN] switches until the desired fog horn pattern is selected.
 - The number of " appearing indicates the selected fog horn pattern (see page opposite).
 - At this time you can send a fog horn signal manually by pushing [PTT].

■ Internal speaker ON/OFF

When you connect an external speaker and the transceiver's internal speaker is not required, the internal speaker can be deactivated. The internal speaker is turned ON and OFF in SET mode. For details see p. 29.

NOTE: Even when the internal speaker is set to OFF, optional DSC function alerts will sound when activated.

■ Displaying position

When the optional UX-130 DSC UNIT and a GPS receiver is connected to the transceiver, your position can be displayed at the push of a switch.



Push [16 • POS] for 1 sec. to display your current vessel position.

■ Entering SET mode

SET mode is used to customize operation of the transceiver to suit your operating needs.

♦ To enter set mode:

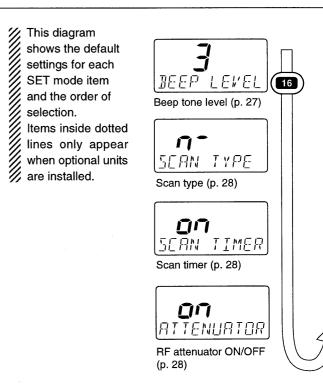
- ① While pushing [16], turn power ON.
 - SET mode is selected.
- 2 To exit SET mode, turn power OFF then ON again.

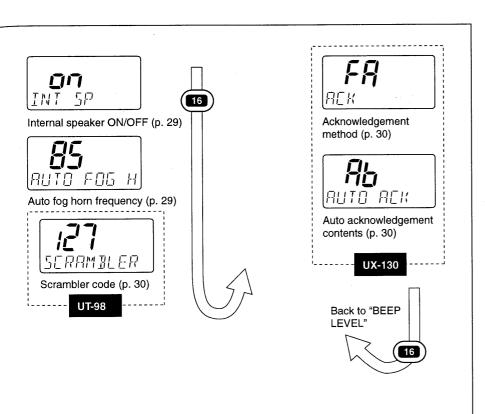
♦ To select an item:

There are up to 10 items in SET mode (depending on options installed) that may be adjusted to suit your operating preferences.

- ① Select SET mode as above.
- ② Push [16] to select the desired item; then rotate the channel selector to select the desired condition.
 - See the following pages for details on each SET mode item.

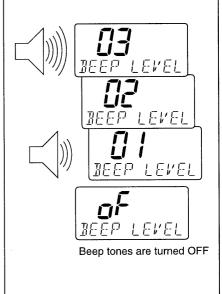
■ SET mode items





♦ Beep tone level

The audio level of the beep tones (emitted when a switch/key is pushed, etc.) can be adjusted from OFF to 3 (loudest).



♦ Scan type

Depending on your preference, you can select scans to function as *normal scan* or *priority scan*. See p. 10 for scan details.

Normal scan: all tag channels are checked in sequence.

Priority scan: same as normal scan except that channel 16 is monitored between tag channels.



Normal scan is set



♦ Scan timer

This item sets the scan behavior when receiving a signal. When set to OFF, scan pauses on a signal until it disappears, then resumes 3 sec. after that; when set to ON, scan resumes 5 sec. after receiving a signal, regardless of whether it disappears or not.



Scan timer is turned ON



Scan timer is turned OFF

♦ Internal speaker ON/OFF

When you connect an external speaker and the transceiver's internal speaker is not required, the internal speaker can be deactivated. Note that DSC alerts will not be turned OFF even when this item is set to OFF.



ON: audio is emitted from the IC-M127's internal speaker

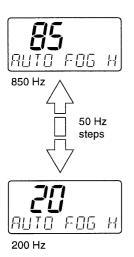


OFF: audio is emitted from a connected external speaker

♦ Auto fog horn frequency

The audio frequency of the auto fog horn can be adjusted to suit your preference. While this item is selected, pushing [PTT] outputs the fog horn—experiment with the frequencies available until you find one you like.

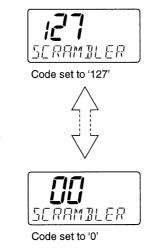
• The horn outputs from the hailer speaker.



♦ Voice scrambler code

This item appears only when an optional UT-98 VOICE SCRAMBLER UNIT is installed.

When communicating using the voice scrambler function, remember that all members of your group must have the scrambler function ON, and the same scramble code set.



♦ DSC acknowledgement method

This item appears only when an optional UX-130 DSC UNIT is installed.

This item sets the acknowledgment method for replies to a calling station when receiving an individual call (see pgs.13, 16, 19 and 20 for details concerning individual calls).



Full auto: transceiver automatically replies to DSC calls



Semi auto: you must manually reply; however, when no operation is performed, an "unable to comply" is automatically sent



Manual: you must manually reply to calls

♦ Auto acknowledge contents

This item appears only when an optional UX-130 DSC UNIT is installed and full automatic (FA) is selected (see left).

This item only appears when full automatic (FA) is selected in the previous item and sets "unable to comply" or "able to comply" as the full automatic acknowledgement transmission (left).



"Able to comply" message is sent when receiving an individual call

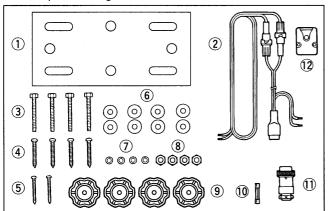


"Unable to comply" message is sent when receiving an individual call

CONNECTIONS AND MAINTENANCE

Unpacking

① Mounting bracket	1
② DC power cable	1
③ Mounting bolts (M6 × 50)	4
4 Mounting screws (A0 6 × 30)	4
$\textcircled{5}$ Mic hanger screws (A0 3.5 \times 30)	2
6 Flat washers (M6)	ε
7 Spring washers (M6)	4
8 Nuts (M6)	
9 Mounting knobs (M6 × 50 SUS)	4
① Fuse (10 A)	1
① ACC connector plug (8-pin)	1
Microphone hanger	



■ Additional requirements

♦ FOR GENERAL OPERATION

- Marine VHF antenna
- Coaxial cable

♦ FOR DSC OPERATION

• UX-130 DSC UNIT

♦ FOR ENHANCED DSC OPERATION

GPS receiver with NMEA0183 output for sending positioning data.

♦ FOR VOICE SCRAMBLER OPERATION

UT-98 VOICE SCRAMBLER UNIT
 Consult with your dealer if you need this function—disassembly and soldering of transceiver circuits is required for installation.

♦ FOR HAILER OPERATION

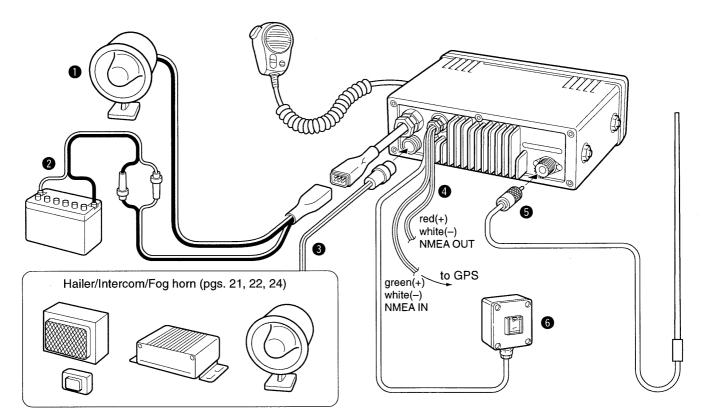
- External speaker
- UA-4 AUDIO AMPLIFIER if your require 20 W of output power

♦ FOR INTERCOM OPERATION

- External speaker
- Non-locking switch for intercom operation

7 CONNECTIONS AND MAINTENANCE

■ Basic connections



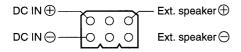
1 EXTERNAL SPEAKER CABLES

Set the internal speaker to OFF in SET mode (p. 29).

2 DC POWER CONNECTOR

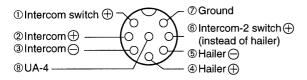
Connects the supplied DC power cable from this connector to an external 13.8 V DC power source.

The external speaker outputs are also included in this connector



3 HAILER/INTERCOM/FOG HORN CONNECTOR PINS

8-pin plug connects speaker and switches for the hailer, intercom and fog horn functions. With an optional UA-4 audio amplifier, 20 W output is possible from the speaker for the hailer or fog horn function.



4 OPTIONAL NMEA CABLE

Allows you to connect an NMEA device, such as a GPS receiver, to the IC-M127EURO.

6 ANTENNA CONNECTOR

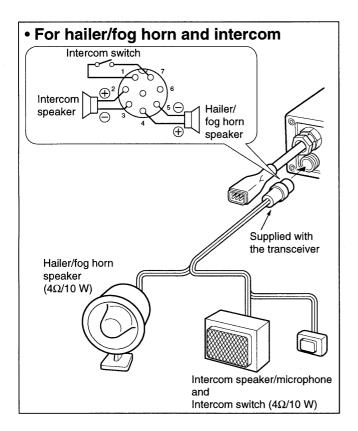
Connects a marine VHF antenna with a PL-259 connector to the transceiver.

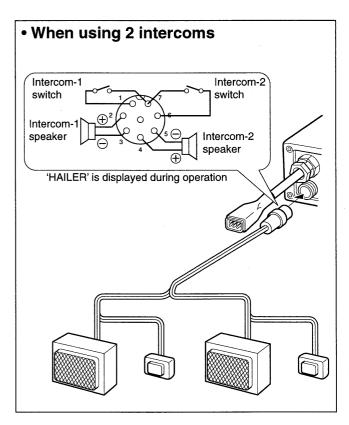
CAUTION: Transmitting without an antenna will damage the transceiver.

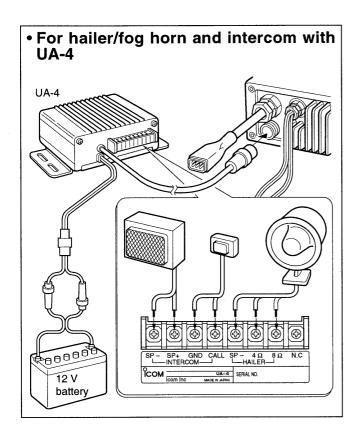
6 RC-18 DISTRESS SWITCH BOX

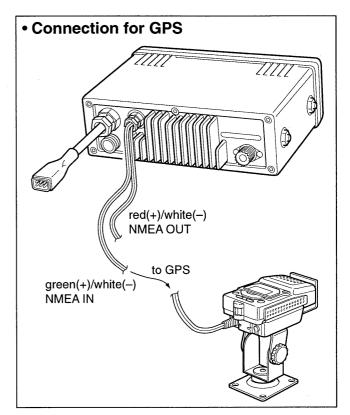
Allows you to make DSC distress calls when the optional UX-130 DSC UNIT is installed.

■ Connections for hailer/intercom/fog horn









■ Mounting the transceiver and DSC box

The universal mounting bracket supplied with your transceiver allows overhead or dashboard mounting.

- Mount the transceiver securely with the 4 supplied screws to a surface which is more than 10 mm thick and can support more than 5 kg.
- Mount the transceiver so that the face of the transceiver is at 90° to your line of sight when operating it.
- Mount the RC-18 DSC BOX to a flat surface using the 4 supplied screws (refer to UX-130 instruction sheet).

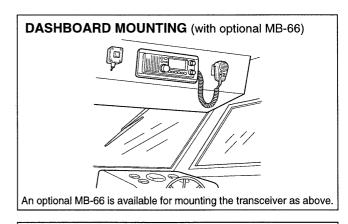
CAUTION: KEEP the transceiver and microphone at least 1 meter away from your vessel's magnetic navigation compass.

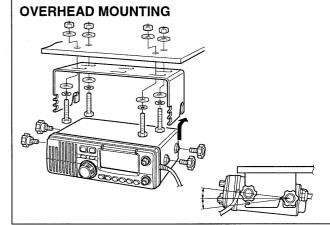
NOTE: Check the installation angle; the function display may not be easy-to-read at some angles.

NOTES FOR SUPPLIED STICKER

When installing an optional UX-130 DSC UNIT.

Attach the WARNING sticker supplied with the UX-130 near the transceiver's front panel so that it is clearly visible during operation.





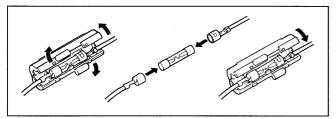
■ Antenna

A key element in the performance of any communication system is an antenna. Ask your Dealer about antennas and the best places to mount them.

■ Fuse replacement

Two fuses are installed in the supplied DC power cable. If a fuse blows or the transceiver stops functioning, track down the source of the problem, if possible, and replace the damaged fuse with a new, rated one.

☐ Fuse rating: 10 A



Cleaning



If the transceiver becomes dusty or dirty, wipe it clean with a dry, soft cloth.



AVOID the use of solvents such as benzene or alcohol, as they may damage transceiver surfaces.

OPTION INSTALLATION

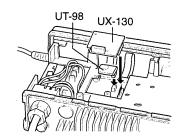
■ Installing the UT-98

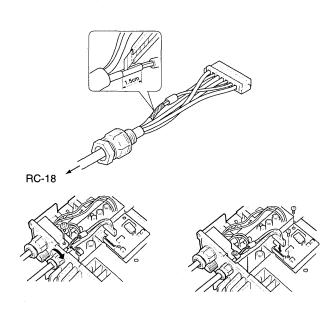
- ① Turn the transceiver power OFF and disconnect the DC power connector.
- ② Remove the 6 screws located on the rear panel; then, slide the case free of the transceiver.
- 3 Install the UT-98 as shown at right.
- Replace the transceiver case; then, replace the 6 screws on the rear panel when you are finished.
 - 10 to 12 kg of torque MUST be applied to insure water resistance.

■ Installing the UX-130 (with RC-18)

- ① Remove the transceiver case as described above.
- 2 Install the UX-130 as shown at right.
 - Be sure to secure it in place with the 2 supplied screws.
- 3 Cut off a 1.5 cm section of insulated tubing as at right.
- Screw the cable holder into the rear panel, then clamp the
 the wire onto the chassis with the supplied clamp and screw.
- ⑤ Replace the case and secure with the 6 screws.
- ⑥ In order to use DSC functions, your vessel's ID must be programmed into the transceiver.

NOTE: DO NOT extend the cable connecting the RC-18 with the transceiver—this may cause DSC functions to fail.





TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
No power comes on.	Power cord not connected properly. Blown fuse.	Check the power cord connection. Check the polarity of the power connection, then, replace the fuse.	p. 32 p. 37
No sound comes from the speaker.	The hailer or intercom function is activated. The internal speaker is turned OFF in SET mode. Handset is out of the cradle (when an optional handset is used).	Push [DIAL] to turn the function OFF. Turn the internal speaker ON in SET mode. Set the handset into the cradle.	— pgs. 26, 29 —
No beeps sound even when a switch is pushed.	Beep function is turned OFF.	Set beep level to 01 or more in SET mode.	pgs. 26, 27
Sensitivity is low and only strong signals are audible.	[SQUELCH] is rotated too far clockwise. Antenna feedline or the antenna connector solder has poor contact or is short circuited.	Rotate [SQUELCH] counterclockwise to a suitable position. Check, and if necessary, replace the feedline or solder the antenna connector again.	p. 8 p. 32
Transmitting is impossible or high power cannot be selected.	Transmission is restricted on some channels.	Change channels.	pgs. 6, 7
Desired channel cannot be selected.	Different channel group is selected.	Push and hold [DIAL] to select the appropriate channel group (INT or U.S.A.).	p. 7
No display backlighting.	Backlight function is turned OFF.	While pushing [HI/LO • DIM], rotate the channel selector to select the desired brightness.	p. 11
Scan does not start.	No "TAG" channels are programmed.	Set channels to be scanned as "TAG" channels.	p. 10
Receive signal cannot be understood.	Voice scrambler has been turned OFF. Voice scrambler code has not been set correctly.	 Install the optional UT-98, then activate the function. Reset the scramble code. 	p. 8 p. 29

10 VHF MARINE CHANNEL LIST

Chanr	nel no.	no. Frequency (MHz)		
USA	INT	Transmit	Receive	Channel name
	01	156.050	160.650	TELEPHONE
01A		156.050	156.050	VTS
	02	156.100	160.700	TELEPHONE
02A		156.100	156.100	
	03	156.150	160.750	TELEPHONE
03A		156.150	156.150	
	04	156.200	160.800	INTL
04A		156.200	156.200	CCG
	05	156.250	160.850	INTL
05A		156.250	156.250	VTS
06	06	156.300	156.300	SAFETY
	07	156.350	160.950	INTL
07A		156.350	156.350	COMMERCIAL
08	08	156.400	156.400	COMMERCIAL
09	09	156.450	156.450	CALLING
10	10	156.500	156.500	COMMERCIAL
11	11	156,550	156.550	VTS
12	12	156.600	156.600	VTS
13*²	13	156.650	156.650	BRG/BRG
14	14	156.700	156.700	VTS
15*²	15* ¹	156.750	156.750	COMMERCIAL
16	16	156.800	156.800	CALLING
17*1	17	156.850	156.850	SAR
	18	156.900	161.500	INTL
18A		156.900	156.900	COMMERCIAL
	19	156.950	161.550	INTL

Channel no.		. Frequency (MHz)		6
USA	INT	Transmit	Receive	Channel name
19A		156.950	156.950	COMMERCIAL
20	20	157.000	161.600	PORT OPR
20A		157.000	157.000	PORT OPR
	21	157.050	161.650	INTL
21A		157.050	157.050	CCG
			161.650	CMBS
	22	157.100	161.700	INTL
22A		157.100	157.100	USCG
	23	157.150	161.750	INTL
23A		157.150	157.150	USCG
24	24	157.200	161.800	TELEPHONE
25	25	157.250	161.850	TELEPHONE
			161.850	CMBS
26	26	157.300	161.900	TELEPHONE
27	27	157,350	161.950	TELEPHONE
28	28	157.400	162.000	TELEPHONE
			162.000	CMBS
	60	156.025	160.625	TELEPHONE
60A		156.025	156.025	
	61	156.075	160.675	INTL
61A		156.075	156.075	CCG
	62	156.125	160.725	INTL
62A		156.125	156.125	CCG
	63	156.175	160.775	INTL
63A		156.175	156.175	VTS
	64	156.225	160.825	TELEPHONE

^{*1} Low power only

^{*2} Momentary high power

^{*3} Receive only (except for DSC transmissions)

VHF MARINE CHANNEL LIST 10

Channel no.		Frequency (MHz)		
USA	INT	Transmit	Receive	Channel name
64A		156.225	156.225	COMMERCIAL
	65	156.275	160.875	INTL
65A	65A	156.275	156.275	PORT OPR
	66	156.325	160.925	INTL
66A	66A	156.325	156.325	PORT OPR
67* ²	67	156.375	156.375	BRG/BRG
68	68	156.425	156.425	SHIP-SHIP
69	69	156.475	156.475	PLEASURE
70* ³	70* ³	156.525	156.525	DSC
71	71	156.575	156.575	PLEASURE
72	72	156.625	156.625	SHIP-SHIP
73	73	156.675	156.675	PORT OPR
74	74	156.725	156,725	PORT OPR
75	75	Guard	Guard	
76	76	Guard	Guard	
77*1	77	156.875	156.875	PORT OPR
	78	156.925	161.525	INTL
78A		156.925	156.925	SHIP-SHIP
	79	156.975	161.575	INTL
79A		156.975	156.975	SHIP-SHIP
	80	157.025	161.625	INTL
80A		157.025	157.025	SHIP-SHIP
	81	157.075	161.675	INTL
81A		157.075	157.075	CCG
	82	157.125	161.725	INTL
82A		157.125	157.125	CCG

Channel no.		Frequency (MHz)		St	
USA	INT	Transmit	Receive	Channel name	
	83	157.175	161.775	CCG	
83A		157.175	157.175	CCG	
			161.775	CMBS	
84	84	157.225	161.825	TELEPHONE	
84A		157.225	157.225		
85	85	157.275	161.875	TELEPHONE	
85A		157.275	157.275		
86	86	157.325	161.925	TELEPHONE	
86A		157.325	157.325		
87	87	157.375	161.975	TELEPHONE	
87A		157.375	157.375		
88	88	157.425	162.025	TELEPHONE	
88A		157.425	157.425	COMMERCIAL	

CHANNEL NAME KEY

TELEPHONE	: public correspondence
PLEASURE	: pleasure boat use
SAFETY	: safety communications
PORT OPR	: port operations
VTS	: vessel traffic control
SHIP-SHIP	: intership communications
CMBS	: continuous marine broadcast system
COMMERCIAL	: commercial use
USCG	: United States Coast Guard
BRG/BRG	: bridge to bridge communications
INTL	: outside of the US or Canada
SAR	: search and rescue
CCG	: Canadian Coast Guard

11 SPECIFICATIONS

General

• Frequency coverage : Transmit 156–157.5 MHz Receive 156–163 MHz

• Usable channels : All International and U.S.A.*

channels

*U.K. and Italy versions only.

Mode : 16K0G3E, (16K0G2B when optional DSC is in use)

• Power supply requirement : 13.8 V DC ± 15%

• Current drain : Transmit (at 13.8 V DC) high power

low power 2.0 A Receive

6.3 A

standby 500 mA max. audio output 1.5 A

max. audio output 1.5
• Frequency stability : ± 5 ppm

• Usable temp. range : -20°C to +60°C;

-4°F to +140°F

• Scan speed : 8 channels/second

 $\begin{array}{ll} \bullet \mbox{ Dimensions} & : 229(W) \times 78(H) \times 220(D) \mbox{ mm} \\ \mbox{ (projections not included)} & 9(W) \times 3^1\!\!/16(H) \times 8^5\!\!/8(D) \mbox{ in} \\ \end{array}$

• Weight : 2.5 kg; 5.5 lb

Transmitter

Output power : High 25 W Low 1 WModulation system : Variable reactance phase

modulation

• Max. frequency deviation: ± 5.0 kHz

• Spurious emissions : Less than 0.25 μW

• Microphone impedance : 600 Ω

Receiver

• Receive system : Double conversion

superheterodyne

Intermediate frequencies: 1st 21.8 MHz 2nd 455 kHz
 Sensitivity :-4 dBµV (emf) for 20 dB SINAD

• Squelch sensitivity : -2 dBµV (emf) at threshold

• Adjacent channel : More than 75 dB

selectivity

• Spurious response : More than 75 dB

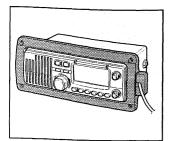
rejection

Intermodulation rejection: More than 75 dB
Audio output power: 5 W at 10% distortion

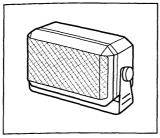
 \bullet Audio output impedance : 4 Ω

All stated specifications are subject to change without notice or obligation

OPTIONS 12

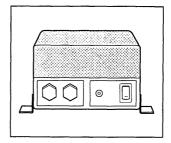


MB-66 FLUSH MOUNTFor mounting the transceiver to a panel. Available in black or white.



SPEAKERA compact, external speaker.
Features easy installation.

SP-10 EXTERNAL



PS-66
DC-DC CONVERTER
Input voltage: 19 to 32 V DC
Output voltage: 13.6 V DC

♦ INTERNAL UNITS

• UT-98 VOICE SCRAMBLER UNIT

Provides private communications. Analog-type voice scrambling unit with 128 scramble codes available.

• UX-130 DSC UNIT (with RC-18* DISTRESS SWITCH BOX)
When the UX-130 is installed, the transceiver conforms to
DSC class F for marine digital communications.
*Depending on version.

