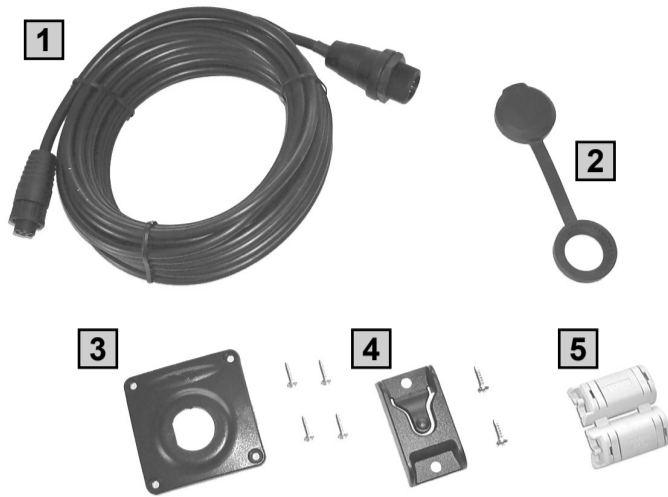


**RAM3+ (CMP31)
Remote Station Microphone**



INCLUDED ACCESSORIES AND REPLACEMENT PART NUMBERS

1. 23-Foot Routing Cable (S8101512)
2. Rubber Cap (RA052520A)
3. Mounting Bracket (RA0525100) & Screws (U24312020 x 4 pcs)
4. Microphone Hanger (RA0458800: Black or RA0436000: White) & Screws (U40412220 x 2 pcs)
5. Ferrite Core (L9190198 or L9190192)



Disposal of your Electronic and Electric Equipment

Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Electronic and Electric Equipment should be recycled at a facility capable of handling these items and their waste byproducts.

In EU countries, please contact your local equipment supplier representative or service center for information about the waste collection system in your country.



YAESU MUSEN CO., LTD.
Tennozu Parkside Building
2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

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6125 Phyllis Drive, Cypress, CA 90630, U.S.A.

YAESU UK
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16020-BO



The **RAM3+ (CMP31)** allows you to remotely control all functions of Standard Horizon fixed mount VHF radios which include GX1600, GX1700, GX2000, GX2100, GX2150, GX2200 and GX5500S. The full dot matrix display and programmable keys make operation simple and fast. Additional features include turning the radio on/off and all DSC functions including Distress. The **RAM3+ (CMP31)** can be extended up to 70 feet using the optional CT-100 (23 Foot) extension cable. The **RAM3+ (CMP31)** is backed by an industry leading 3-year waterproof warranty.

Owner's Manual

The details of the installation and operation of the **RAM3+ (CMP31)** is included in the owner's manual of the compatible fixed mount radio, or it can be downloaded at www.standardhorizon.com. If you have any questions or comments, please contact Standard Horizon Marine Product Support at 800/767-2450.

OPTIONAL ACCESSORIES



CT-100 23Ft EXTENSION CABLE



MLS-300 EXTERNAL LOUD SPEAKER



MLS-310 10 WATT AMPLIFIED SPEAKER

SPECIFICATIONS

Supply voltage:	13.8 VDC (Supplied from the transceiver)
Current consumption:	700 mA @VOL Max. 200 mA @AF Mute
Operating Temperature:	-4 °F to +140 °F (-20 °C to +60 °C)
MIC. Sensitivity (Typical):	60 mVrms @ 1 kHz Tone with 3 kHz Deviation
MIC. Impedance:	2 kΩ
AF output:	800 mW @ 8 Ω for 10 % THD (Internal Speaker) 3 W @ 4 Ω for 10 % THD (External Speaker)
Display Size:	1.8" x 0.9" (45 x 23 mm)
Display Resolution:	132 x 64 dot
Case Size:	2.6" x 5.5" x 1.2" (67 x 140 x 30 mm)
Weight (Approx):	12.9 oz (365g)

RAM3+ (CMP31) INSTALLATION

WARNING: Do not connect or remove the CMP31 (RAM3+) microphone while the radio is powered on. This may result in equipment failure.

1. Connect the Extension Cable to the 8-pin connector on the transceivers rear panel, then tighten the Cable Nut (Figure 1).
2. Referring to Figure 2, attach the supplied ferrite core as close as possible to the MIC plug of the Routing Cable and External Speaker Connections, then snap its two halves together. And then, wind some plastic tape around the ferrite core, to prevent vibration from causing the two halves to split apart and fall off the wires.
3. Referring to Figure 3, make a 1.2" (30 mm) hole in the wall then insert the Extension Cable into this hole. Connect the Gasket and Mount Base to the Extension Cable Connector using the Nut.
4. Drill the four Screw holes (approx. 2 mm) on the wall then install the Mounting Bracket to the wall using four screws.
5. Put the Rubber Cap on to the Nut.
6. The installation is now complete. Connect the **RAM3+ (CMP31)** to the Extension Cable Connector and tighten the Cable Nut.

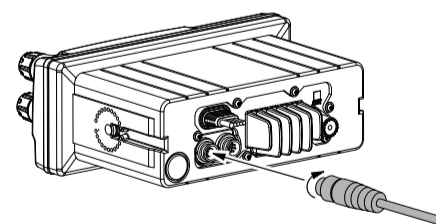


FIGURE 1

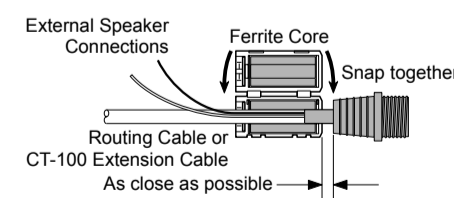


FIGURE 2

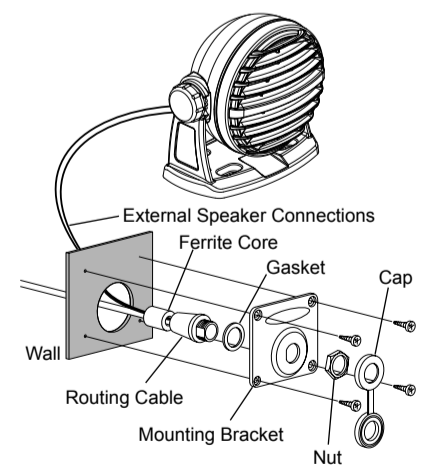


FIGURE 3

NOTE

Caution! Before cutting the cable, it must be disconnected from the rear panel of the transceiver.

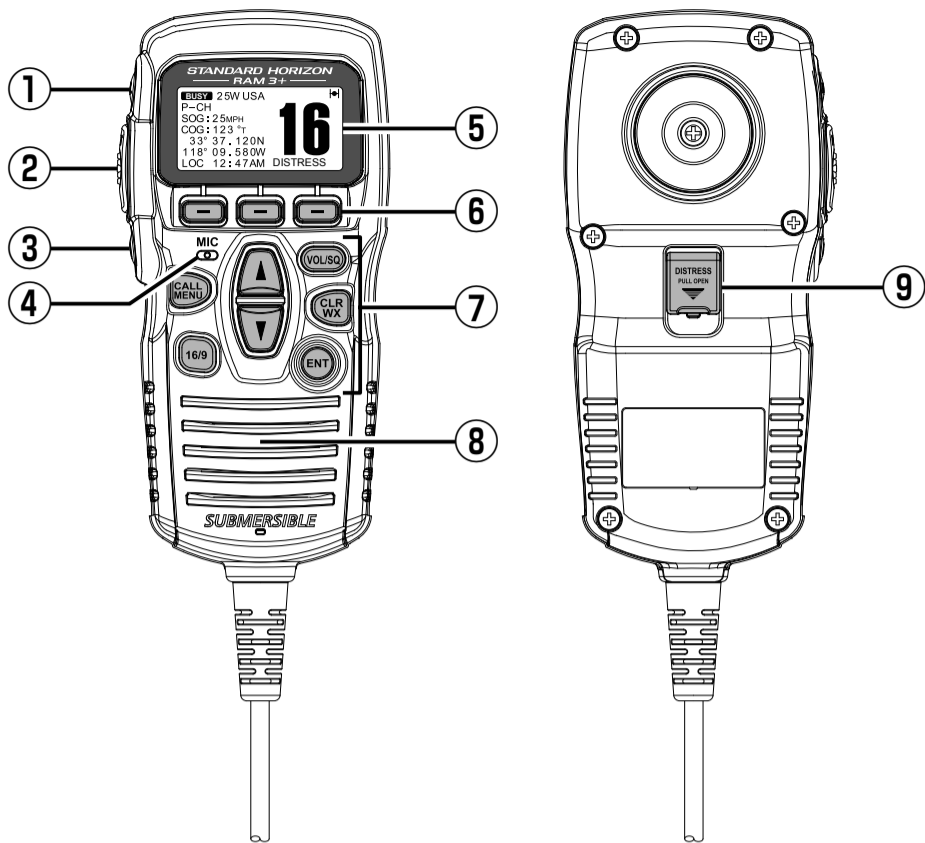
The routing cable can be cut and spliced, however care needs to be taken when reconnecting the wires to ensure water integrity.

After cutting you will notice there are the following wires:

Yellow, Green, Brown, Purple, Blue, Green, Red[×], and Shield[×]

[×] The Red and Shield wires are wrapped in foil. Remove the foil, and separate the Red and Shield wires.

RAM3+ (CMP31) CONTROLS



- ① **[H/L] Key**
Press this key to toggle the transmit power between high and low. When the [H/L] key is pressed while the transceiver is on channel 13 or 67, the power will temporarily switch from LOW to HI power until the PTT is released. The [H/L] key does not function on transmit inhibited and low power only channels.
- ② **PTT (Push-To-Talk) Key**
Press this key to activate the transmission.
- ③ **POWER (⏻) Key**
Press and hold down this key to turn to the transceiver and RAM3+ (CMP31) "on" and "off".

- ④ **Microphone**
The internal microphone is located here.
When transmitting, position your mouth about 1/2 to 1 inch (1.2 ~ 2.5 cm) away from the small mic hole. Speak slowly and clearly into the microphone.
- ⑤ **DISPLAY**
Channel display.
- ⑥ **SOFT KEY**
For details, refer to owner's manual of the transceiver.
- ⑦ **KEY PAD**
[CALL/MENU] Key
Press this key to access the DSC OPERATION menu.
Press and hold this key to access the SETUP menu.
[16/9] Key
First press: channel 16 is immediately selected.
Second press: recalls the last selected channel.
Press and hold: selects channel 9.
[▲](UP)/[▼](DOWN) Key
These keys are used to select channels, adjust the volume and squelch level, and to choose DSC calls, DSC setup and Radio setup function.
[VOL/SQ] Key (Volume Control / Squelch Control)
Press this key to toggle the function of the microphone's [▲] or [▼] key between the channel selections, volume level adjustment, and squelch level adjustment.
[CLR/WX] Key
For details, refer to owner's manual of the transceiver.
[ENT] Key
This key functions as the enter key.
- ⑧ **Speaker**
The internal speaker is located here.
- ⑨ **[DISTRESS] KEY**
This key is used to send a DSC Distress Call.
Lift the red spring loaded DISTRESS cover, then press and hold in the [DISTRESS] key.

YAESU

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Declaration of Conformity

Nr. YUK-DOC-1103-15

We, Yaesu UK Ltd. certify and declare under our sole responsibility that the following equipment complies with the essential requirements of the Directive 1999/5/EC and 2011/65/EU.

Type of Equipment	Remote Station Microphgone
Brand Name	STANDARDHORIZON
Model Number	CMP31
Manufacturer	YAESU MUSEN CO. LTD.
Address of Manufacturer:	Tennozu Parkside Building, 2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo, 140-0002 Japan

Applicable Standards:

This equipment is tested to and conforms to the essential requirements of directive, as included in following standards:

Safety 1999/5/EC Art. 3 (1) (a)	EN 60950-1:2006+A2:2013
EMC 1999/5/EC Art. 3 (1) (b)	EN 301 843-01 V1.3.1
	EN 301 843-02 V1.2.1
ROHS2 2011/65/EU Art. 7 (b)	EN 50581:2012

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company: Yaesu UK Ltd
Address: Unit 12, Sun Valley Business Park, Winnall Close
Winchester, Hampshire UK SO23 0LB

Technical Construction file: Issued by: Yaesu Musen Co. Ltd, Tokyo Japan
File No: YETA00154B
Drawn up in: Winchester, Hampshire UK
Date: 2nd November 2015

Signed for and on behalf of Yaesu UK Ltd



Name and position: PCJ Bigwood
Technical Sales Manager

YAESU

Declaration of Conformity

Type of Equipment:	Remote Station Microphone
Brand Name:	STANDARD HORIZON
Model Number:	CMP31
Manufacturer:	YAESU MUSEN CO., LTD.
Address of Manufacturer:	Tennozu Parkside Building, 2-5-8 Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-0002 Japan

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The technical documentation as required by the Conformity Assessment procedures is kept at the following address:

Company: Yaesu U.S.A.
Address: 6125 Phyllis Drive, Cypress, CA 90630, U.S.A.
Telephone: (714) 827-7600

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this device not expressly approved by YAESU MUSEN could void the user's authorization to operate this device.