

JRC VHF/FM MARINE RADIOTELEPHONE



JHS-32B

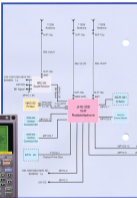
Designed in compliance with the GMDSS carriage requirements.



DESIGNED IN A COMPACT BODY WITH MULTIPLE FUNCTIONS FOR THE GMDSS

The JHS-32B VHF radiotelephone is designed as one of the VHF radio facilities that meet the carriage requirements for the Global Maritime Distress and Safety System (GMDSS). The JHS-32B VHF radiotelephone can be easily installed not only in the conventional ships (all passenger ships and the cargo ships of over 300 gross tons engaged in international navigation) but also in the non-conventional ships of over 100 gross tons because it is designed as compact and light weight.

Besides the usual radiotelephone function, the JHS-32B VHF radiotelephone is equipped with digital selective calling (DSC) function for distress and general routine communications. The JHS-32B incorporates all the necessary units for the DSC service, such as the DSC unit, the CH70 DSC Watchkeeping Receiver, and the power supply.



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SPECIFICATIONS

• JHS-325 VHF radiotelephone

Transmission frequency range: 155.000 to 158.900 MHz
Receiver frequency range: 155.000 to 158.900 MHz (single)
 155.000 to 158.900 MHz (split)
Channel capacity: Up to 37 (15A/5A)¹
 Canadian channels

Up to 30 private channels
 Up to 10 memory channels
 9 weather channels
 (For reception only)

Channel spacing: 25 MHz/12.5 MHz
Mode of operation: Simplex or semi-duplex
 simplex or semi-duplex
 simplex or private channels

Mode of modulation: G2E, G2E-F2E, F2E
Frequency accuracy: $\pm 100 \times 10^{-6}$ or less
Antenna impedance: 50 ohms, unbalanced
Output power: 25W/1 W, selectable
Receiver sensitivity: 2 μ V or less (20 dB MC)
Receiver sensitivity (SAC): 1% or less symbol error rate at 1 μ V antenna input
Major operation items: Starting and stopping distress alert

• CW90 50C Watchkeeping Receiver (Built-in)

Reception channel: Channel 70 (156.525 MHz)
Mode of modulation: G2E (F2E)
Frequency accuracy: $\pm 100 \times 10^{-6}$ or less
Antenna impedance: 50 ohms, unbalanced
Receiver sensitivity: 1% or less symbol error rate at 1 μ V antenna input



COMPONENTS

• BASIC SYSTEM COMPONENTS

Component	Model	Quantity	Remarks
VHF Radiotelephone (with built-in CW90 50C watchkeeping receiver)	JHS-325	1	VHF hand-held (40-400/PC11) and spare keys (PC04)
Antenna	11200	2	Dipole type
Antenna fitting	505	2	Stainless steel
Cable connector	N-P-18J	4	
Instruction manual		1	
Test data		1	

	feeding/transmitter/receiver channels and transmission power
Major display items:	Adjusting/dimming, squelch, and volume For electronic mode: transmitter/receiver channels, status of operation modes, date, time, and position For DSC mode: message (9 lines X 40 characters), error display and operation guide (4 lines X 40 characters)
Power supply voltage:	100 to 120 VAC (50/60 Hz) or 200 to 240 VAC (50/60 Hz), 20/24 VDC (21.6 to 21.2 VDC)
Power source selection:	Normally AC operation. Automatic switching to DC operation at AC power failure.

•MCH-414 Remote Controller	
Operation and display items:	The same as the J-91-02R
Power supply voltage:	100 to 120 VAC (50/60 Hz) or 200 to 240 VAC (50/60 Hz), and 24 VDC (21.6 to 21.2 VDC)
Power source selection:	Normally AC operation. Automatic switching to DC operation at AC power failure.

•MFB-332 Guard Receiver	
Mode of reception:	Simultaneous reception of two adjacent channels
Reception channels:	Up to 37 ITU-R M channels (GB, F1B)
Mode of modulation:	2.1B K 10 ¹¹ or less
Frequency accuracy:	50 chms, uncalibrated
Antenna impedance:	50 Ω
Receiver sensitivity:	2 μV or less (30 dB-SG)

•MKG-52 Printer	
Printing system:	Thermal type solid dot printer
Input interface:	Centronics (78 pin D-50pin)
Input data:	5 bit parallel
Character format:	7.5 x 8 dot matrix
Printing paper:	FR808L13 thermal paper, 50 mm wide
Power supply:	5 VDC, 3 VV maximum (To be supplied from the J-91-02R)

Power supply voltage:	100 to 120 VAC (50/60 Hz) or 200 to 240 VAC (50/60 Hz), and 24 VDC (21.6 to 21.2 VDC)
Power source selection:	Normally AC operation. Automatic switching to DC operation at AC power failure.

•OPTIONS

Components	Model	Remarks
Randstad connection box	HQE-840	Waterproof for ring installation
Randstad connection box	HQE-841	Indoor flush mount type
Spare handset	HS-8800.5	
Randstad feet	LBP-01-10	
Printer	MKG-52	Printer cable, one roll of printer paper supplied
Printer paper	52P6800081	For MKG-52, 50m long
Cable for Centronics printer	CPG-041	1 m - 18m long (as ordered)
Remote controller	MCH-414	With handset, up to three units
Guard receiver	MFB-332	
External speaker	MFS-423	Wall mount type
External speaker	MFS-423A	Flush mount type
Coaxial cable	PS-107P	For antenna cable
Flush mount fittings	4821507	For JMS-525
Flush mount fittings	4821506	For MCH-414
Flush mount fittings	MFBP33213	For MFB-332
Flush mount fittings	4821369	For MFB-332



JHS-328
VHF Radiotelephone



RCR-414
Remote Controller



MRC-333
Guard Receiver



MPO-02
Printer

FEATURES

- The JHS-328 VHF radiotelephone meets the ITU Radio Regulations, SAC Performance Standards, and ITU-R Recommendations.
- The JHS-328 VHF radiotelephone covers all channels specified in the ITU Radio Regulations.
- The JHS-328 VHF radiotelephone can be easily installed in a narrow space because all the necessary units, transmitter/receiver, antenna switch unit, DSC unit, CH 70 DSC Watchkeeping Receiver and power supply are built in a compact body.
- The JHS-328 VHF radiotelephone incorporates a large graphic LCD with wide angle of visibility. The LCD does not limit the place for installation.
- The JHS-328 VHF radiotelephone guides the operator on the LCD display how to operate according to the needs of the operator by setting the desired item from the menu. This makes any operation easy, DSC operation in particular.
- The JHS-328 VHF radiotelephone can be used with the MPO-02 dedicated printer or a general purpose printer with COMPTON's interface. The connected printer automatically prints out the message to DSC transmission and reception. The message stored in memory can be manually printed out later on.
- The brightness of LCD and keypad backlighting is widely adjustable, not disturbing the night watch.
- In addition to the channels specified by Radio Regulations, the JHS-328 VHF radiotelephone covers USA channels, Weather channels, and Canadian channels available along the coast of North America. Up to 18 private channels can also be incorporated.
- The JHS-328 VHF radiotelephone incorporates memory channels, memory scanning function, scanning function of all channels or desired channels, and dual watching function. These functions are convenient for watching the particular channels.
- Besides the usual radiotelephone communications, distress, urgency, safety, and routine calls are available. When the coast station offers automatic communication service to the public telephone subscribers, the service can be available by inserting the desired telephone number in the SOS message.
- The JHS-328 VHF radiotelephone has the interface to receive position and time data from a navigation equipment such as GPS. At the address call transmission, the position and time data is automatically inserted in the DSC message to be transmitted. When receiving the area call, the JHS-328 VHF radiotelephone automatically checks whether own ship is in the concerned sea area, by referring to the position data from the navigation equipment. When normal operation, the position and time data from the navigation equipment is inserted on the LCD at anytime for the convenience of checking and reporting the position of the ship.
- The JHS-328 VHF radiotelephone can be connected up to three remote controllers with which the same operation as those available on the JHS-328 VHF radiotelephone.
- By installing the MRC-333 Guard Receiver, the operator can keep a continuous watch on any two VHF channels independently from the JHS-328 required by the Administrator of specific countries.
- The JHS-328 VHF radiotelephone can be set so that it automatically terminates transmission with an alarm, according to the FCC Regulations in the USA, when transmission continues for five minutes.
- The JHS-328 VHF radiotelephone is provided with the self-diagnostic and error-checker functions to ensure ease of checking and maintenance.
- The JHS-328 VHF radiotelephone incorporates the automatic power reduction circuit. The circuit protects the transmission circuitry from damage in case of high SWR due to antenna or antenna cable failure.



DIMENSIONS



JRC-525 VHF Handset/Phone with SRC Mounting Bracket
Weight: Approx. 100-kg



RCH-525 Remote Controller
Weight: Approx. 5kg



RRC-525 Quartz Receiver Weight: Approx. 5kg



RKS-525 Printer Weight: Approx. 1.5kg

Design and specifications in this catalog are subject to change without notice.

For further information, contact



Since 1925

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