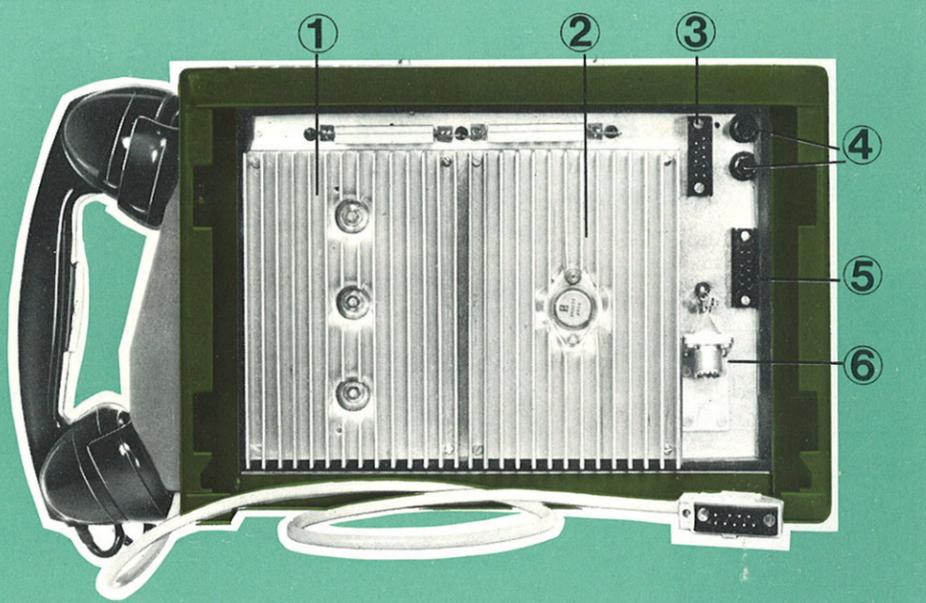


Sailor^{RT141} RT142

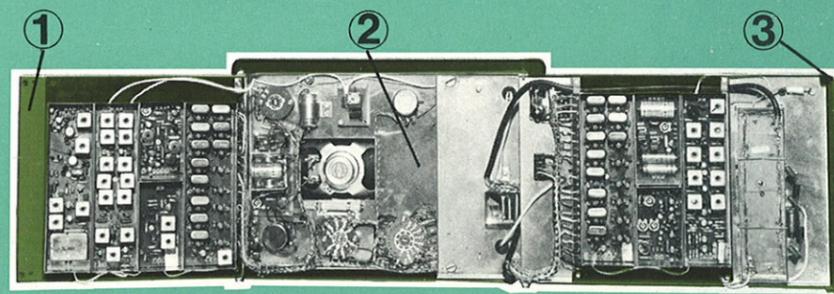
Backside view



- 1 Heat sink for transmitter PA transistors.
- 2 Heat sink for voltage regulator transistor.
- 3 Plug row for power supply and auxiliary loudspeaker connection.
- 4 Fuses.
- 5 Handset connector.
- 6 Aerial connector.

Sailor^{RT141} RT142

With both chassis swung out



- 1 Receiver chassis.
- 2 Assembling chassis.
- 3 Transmitter chassis.



S. P. RADIO A/S - 9000 AALBORG - DENMARK
TELEPHONE: (08) 13 09 99



Sai or^{RT141} RT142

20 WATT VHF RADIO TELEPHONE

S. P. RADIO A/S



9000 AALBORG - DENMARK

Sailor ^{RT141} _{RT142}



SAILOR RT 141/RT 142

is an all transistor marine VHF FM radio telephone with Silicon transistors, designed for radio communication between ships or from ship to coast in the international maritime VHF-range.

SAILOR RT 141/RT 142 has 16 crystal controlled channels, simplex or duplex. The built-in duplex filter enables the operator to transmit and receive on simplex and duplex channels on one aerial only. SAILOR RT 141 is available for 50 kHz channel spacing, SAILOR RT 142 for 25 kHz channel spacing. A 50 kHz set can easily be converted to 25 kHz channel spacing. The set has been approved by the Authorities.

Compact Construction

As a result of the 100 % transistorization it has been possible to construct a very compact set. All control knobs are well arranged on the front panel, and therefore no extra control units are needed. Sockets for the connection of aerial, accumulator, telephone handset and external loudspeaker are easily accessible at the back of the set. SAILOR RT 141/RT 142 is easily mounted on the accompanying self-locking holder.

Servicing

SAILOR RT 141/ RT 142 is built up of modules, which means that a defect may rapidly be detected and repaired, as the modules are easily exchanged. The modules are very accessible, being placed as they are on the swing-chassis, which facilitates the control of components and wire connections all over the set.

Technical Details of RT 141/RT 142

General:	
Number of Channels	: 16
Channel Spacing	: 50 kHz/25 kHz
Modulation	: Phase Modulation
Operation	: Simplex and Duplex
Temperature Range	: +20°C to +50°C
(Frequency Stability)	: +/- 1.6 kHz in the entire temperature range
Aerial Impedance	: 50 Ohm
Power Supply	: 12 Volt D.C./24 Volt D.C.
Power Consumption	: Stand by 220 mA
	: Transmitting 4 Amp.
Voltage Variation	: +/-10%. +/-15%. +/-20% with reduced data

Dimensions	: Height 220 mm Width 320 mm Depth 195 mm
Weight	: 12 kg
Receiver	
Frequency Range	: 156,0 Mhz - 162,025 Mhz
Sensitivity	: 0,4 μ V
Audio Output	: 2,5 Watt/4 Ohm
Distortion	: less than 7 %
Transmitter	
Frequency Range	: 156,0 Mhz - 157,5 Mhz
Output Power	: 20 Watt (0,5 W reduced)
Distortion	: less than 7 %

Specification

SAILOR RT 141/ RT 142 is provided with an internally illuminated dial, on which the channel frequencies for which the set has been equipped, are indicated by their channel no. On the frequency board all channels are indicated by frequency and channel application. The dial illumination may be dimmed by means of the DIMMER knob. The excellent matched telephone handset and holder may be placed on the right side or on the top of the set as required.

Controls

FUNCTION SWITCH

OFF: The set is switched off

ON: The set is „on“ and ready for immediate use

1/2 W: Output Power of transmitter reduced to 1/2 Watt (for use in waters with heavy traffic)

SQ: Spring-loaded position, in which the LF amplifier is opened, so that very weak stations may be heard

1

2 CHANNEL SELECTOR: Selects the required channel. The channel no. is indicated on the dial.

2

3 CHANNEL: Dial with channel no.s

3

4 VOLUME: Continuous volume control

4

5 DIMMER: Regulates light intensity in dial

5

6 AUT. CH. 16
ON: When the telephone handset 7 is hung up after use, automatic switching to listening on channel 16 will take place
OFF: The channel 16 automatic is off for listening on the selected channel.

6

7 Telephone handset. The transmitter is switched on, when the switch in the telephone handset is depressed.
When the telephone handset is placed in its holder, all calls are heard in the loudspeaker. When the telephone handset is not in its holder, only simplex traffic will be heard in the loudspeaker.

7

8 Loudspeaker. All calls are heard like specified under 7.
Extra loudspeaker may be connected on power supply socket.

8

9 Frequency board showing channel no.s, frequencies of transmitter and receiver and application of channel.

9

