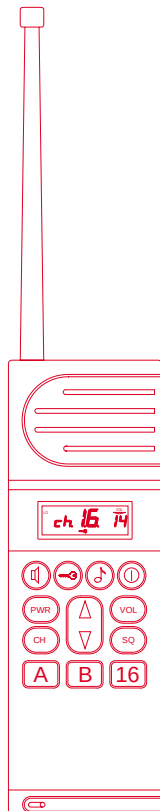


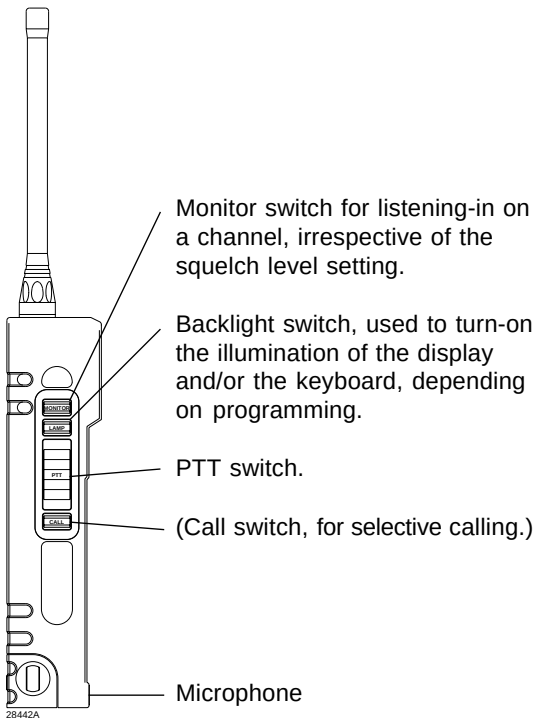
SAILOR SP3110

THE PORTABLE VHF TRANSCEIVER FOR GMDSS

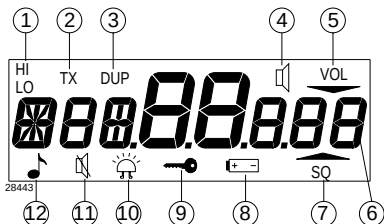


SAILOR, THE GREAT EUROPEAN





Display read-out



1. **H**igh - **L**ow, TX power level indicators.
2. **TX** on indicator, (carrier is transmitted).
3. **DUP**lex channel indicator.
4. Volume indicator, on in high level AF power mode.
5. **VOL**ume sign, the two digits below indicate the actual volume setting.
6. 8 alpha-numeric digits, used for channel number indication etc.
7. Squelch sign, the two digits above indicate the actual squelch setting.
8. Battery low indicator.
9. Keyboard lock indicator.
10. Individual call alarm indicator.*
11. AF-mute indicator.*
12. Tone system ON indicator.*

* Functional only in conjunction with optional tone module for selective calling.

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Introduction

SP3110, your new VHF-transceiver, is approved to fulfil the **GMDSS**-requirements to portable VHF-transceivers, and so it is a part of the required safety equipment to be used in an emergency situation.

However, the best way to guarantee functionality in an emergency, is to use the equipment in the daily work on-board, as a useful communication media.

This is possible, due to a unique concept, with the **PRIMARY EMERGENCY BATTERY**, stored for the emergency, and a **SECONDARY RE-CHARGEABLE BATTERY** for daily use of your new portable VHF-transceiver.

This concept secures at least **8** hours operation time, even at minus 20 C° at sea.

ECI has developed the first portable VHF-transceiver to be used as you normally use a telephone.

This feature gives you a much better communication quality in noisy surroundings.



Furthermore, you have all the international simplex channels, quick selection of distress ch. 16 and two additional user programmable channels, and a lot of other useful features.

Emergency

Procedure for SP3110.

If an emergency situation forces you to leave the ship, **do as follows:**

1. Remove the top-seal of the orange emergency battery package.
2. Insert the battery package into the handheld transceiver unit.
3. Push the  - button, until the radio turns on, indicated by channel read-out in the display.
4. Push the  - button to ensure that the channel for distress traffic is active.

NOTE !

Due to battery storage effects, the turn-on time may be extended compared to normal conditions. If Battery seal is broken for test, fill in label on battery.

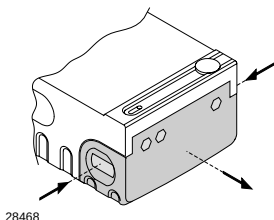
Batteries

This unit has been delivered with two types of battery packages :

- * An orange **PRIMARY EMERGENCY BATTERY** package, to be used in an emergency, as indicated by its colour.
- * A black **SECONDARY RE-CHARGEABLE BATTERY** for daily use of the equipment.

Replacement of battery package :

- * Press the two stainless steel locks on each side of the battery package with your thumb and indexfinger and pull out the battery.



- * Insert the new battery package into the bottom of the transceiver and press it upwards until it snaps in with a “click”.

Operator's guide

Press.....

-  Until unit turns ON/OFF, indicated by the display readout.
-  To lock keyboard, indicated by 
To unlock keyboard,  disappears.
-  To select loudspeaker operation, .
To select telephone-mode operation.
-  To turn on keyboard beep-function.
To turn off keyboard beep-function.
-  To change setting of a selected function,
Default: Volume level function.
-  To select Tx power level function.
-  To select Channel selection function.
-  To select Squelch level function.
-  To select Volume level function.

- 
- A** To select quick channel A.
 - B** To select quick channel B.
 - 16** To select distress channel **16**.

Quick channel programming

The two quick channel keys **A** and **B** can easily be programmed for **single touch** selection of any of the channels contained in the equipment.

These keys may be programmed as follows:

Press **CH** , use the  key to select the wanted channel number, which must be shown in the display.

then

Press the  key (less than 1 sec.) followed by the key you want to programme, **A** or **B** , for more than 1 sec.

Additional features

Your **SP3110** has some other features which may show up to be useful in daily use.

On the side of the transceiver you will find the following switches (look inside the cover of this folder):

“Backlight” switch for turning on/off the keyboard and display illumination (if you forget to turn off the illumination, it will be done automatically after approx. 30 seconds to increase battery life time). The backlight function may be programmed to operate in other ways, please contact your S.P.Radio distributor.

“Monitor” switch for easy listening-in on the selected channel, irrespective of the squelch setting.

Keyboard operated facilities:

“Auto squelch” setting. Press  for more than one second, the transceiver will automatically find an appropriate level to mute the receiver.

Programmable functions:

“Tx power level” preset value. Select the wanted power level and press **“PWR”** for more than 1 second.

“Volume level” preset value. Select the wanted level and press **“VOL”** for more than 1 second.

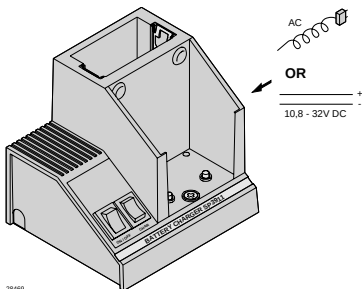
Alarm functions:

“Battery warning” facility. When the battery capacity has decreased to a few percent of full load, an audible alarm is heard in the loud-speaker and a battery sign will be shown in the display. At the same time the transmitter power level will automatically be set to **LOW** level, to extend the remaining operation time of the battery.

An audible alarm is heard each 10 seconds until the display readout shows **“charGe”**, and the set is switched off automatically.

Installation

With your **SP3110** you have got a combined holder/charger. If the transceiver **NOT** is used in the daily work, the primary **emergency** battery may be stored in the holder. If however the charger is used frequently, the **emergency** battery **must** be stored in another place, due to charger heating. The charger may be connected to 110/230 VAC, **OR** a DC source 10.8 -> 31.8 VDC.



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The charger will automatically detect the type of battery in the transceiver, the charging process will start when you press the „**Char**“-button and the red charging indicator turns on. A complete charge cycle is finished after 13 1/2 hour, indicated by a green coloured charge indicator. Please refer to part „Rechargeable batteries“ for proper use of secondary batteries.

Rechargeable batteries

Before taken into operation, the NiCd battery included, must be fully charged.

The battery can be stored at room temperature in any charge condition, without any risk of damage to the battery. However, if the battery has been stored for an unknown period of time, it must be fully charged before used.

The only maintenance needed for your NiCd battery is to keep it charged and with clean terminals. The battery must be at normal room temperature when it is charged, and the transceiver must be switched off.

WARNING

The battery may explode if it is exposed to open fire.

MEMORY EFFECT. Your NiCd battery may show a memory effect, indicated by a reduced charging capability.

This effect will typically arise if your battery repeatedly is charged after a partly discharge. A battery with memory effect is **not** in optimum working condition.

How to avoid memory effect:

Use your transceiver until the battery is fully discharged, indicated by the equipment. Then fully recharge the battery once a week.

How to brake down a memory effect:

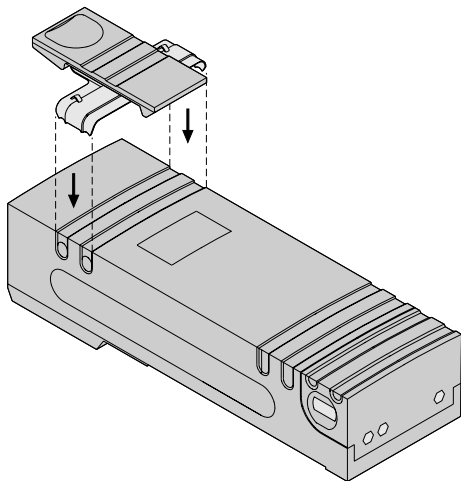
Use your transceiver until the battery is fully discharged then complete a charge cycle. Repeat this procedure at least three times.

NOTE!

As an option, S.P.Radio can offer a special charger, which includes a quick-charger and a special recycle feature with measurement and readout of actual battery capacity.

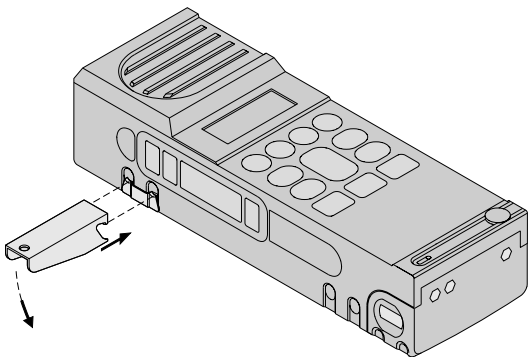
Contact your S.P.Radio distributor for further information

Mounting of clip



28457A

Removing clip







Please note

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