

SAILOR

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MODIFICATION OF SAILOR RT141 VHF RADIO SET IN CONNECTION WITH THE CHANGE-OVER TO 25 kHz CHANNEL SEPARATION

At the international radio conference in Geneva in 1967 the resolution was carried that, in order to provide for more channels for the marine HF-radiotelephony service, the channel separation should be changed from present 50 kHz to 25 kHz.

This implies that from 1st January, 1973, only type-approved 25 kHz sets will be permitted - or modified 50 kHz sets.

In connection with the modification of our VHF-set RT141 there will, depending on the application of the set, be two different procedures to follow, one involving a very simple MODIFICATION I, and another involving more comprehensive MODIFICATION II.

MODIFICATION I:

This modification only involves an adjustment to the set.

The set, which has undergone such an adjustment will be legal also after 1st January, 1973, but it may only be used on the channels 1-28. Further such sets must not be used for a new installation after January, 1973.

It is to point out that such sets may in certain situations be exposed to atmospheres as the new channels with only 25 kHz channel separation from the present channels are taken into use.

The adjustment of the transmitter, which comprises an adjustment of the modulation, is made as mentioned in the instruction manual on page 15 under MODULATION ADJUSTMENTS. At the adjusting the deviation values relating to RT142 (± 5 kHz and $\pm 3,5$ kHz) are to be used.

The adjustment of the receiver, which comprises an alignment of the AF-output, is made as mentioned in the instruction manual on page 17 under ALIGNMENT OF AF-OUTPUT. The deviation value used must be ± 6 kHz (not $\pm 3,5$ kHz or $\pm 10,5$ kHz).

Please file this information in the service-portfolio we have sent you.

Bitte archivieren Sie diese Mitteilung in der Kundendienstmappe, die wir Ihnen gesandt haben.

Nous vous prions de bien vouloir classer ce document dans le dossier bleu qui vous a été envoyé à cet effet.

Sivanse archivar esta información en la cubierta de servicio que les hemos enviado a Ustedes.

De bedes venligst arkivere denne meddelelse i den tilsendte servicemappe.



S. P. RADIO

Aalborg - Denmark

MODIFICATION II:

This modification involves further to the adjustment of the transmitter mentioned under MODIFICATION I also a rebuilding of the receiver unit of the set.

A set which has undergone MODIFICATION II, is fully identical with SAILOR RT142, and thus it is a type-approved 25 kHz VHF-set, which may be used on all VHF-channels for maritime use.

The transmitter is adjusted like mentioned under MODIFICATION I, whereas the intermediate frequency of the receiver must undergo the following rebuilding:

Necessary Materials:

- 1 pc. crystal filter YL 3622 or the like. = *X 157/107 B*
- 1 pc. coil L 201/25 with components mounted on it.
- 1 pc. capacitor C239 (ceramic 10 pF, 400 V FERROPERM 9/0112,9)

These materials can be delivered by us as a kit at a price of: US\$ 35,-

REBUILDING:

1. Remove IF-module from the receiver unit. Dismount the crystal filter FL 201, the box over the coil L 201 and the coil L 201 with components (see drawing IF-Amplifier in the instruction manual).
2. Mount the new coil L 201/25 with components mounted on it, the box over the coil L 201/25 and the new crystal filter.
3. Mount the capacitor C239 from point 5 to frame at the underside of the print (see drawing IF-Amplifier in the instruction manual).
4. Place the IF-module in the receiver again.

ALIGNMENT:

When this rebuilding has been made, the IF-Amplifier and the telephone amplifier of the receiver must be aligned. This is done like indicated under ALIGNMENT OF DISCRIMINATOR AND IF on page 16 of the instruction manual and under ALIGNMENT OF AF OUTPUT on page 17 of the instruction manual (deviation \pm 3,5 kHz).

During the period of transition, changing from 50 to 25 kHz channel separation, there will be some temporary phenomena, which need some further explanation

A set, which has not been modified, will only be able to communicate with sets, which are pure 50 kHz sets or with sets, which have been adjusted in accordance with MODIFICATION I.

A set which has been modified in accordance with MODIFICATION II (a pure 25 kHz set) will only be able to communicate with sets, which are pure 25 kHz sets, or with sets, which have been modified in accordance with MODIFICATION I.

Sets, which have been adjusted in accordance with MODIFICATION I, will be able to communicate with all sets.

We therefore recommend, if conditions allow for it, to have the sets modified in two stages, so that MODIFICATION I is made around 1st January, 1972, and MODIFICATION II around 1st February, 1973.

The above mentioned reduced communication capacity during the period of transition (1st January, 1972 to 1st January, 1973) is of course relating to all VHF-sets irrespective of the make.

The dates etc. indicated above are referring to the international convention.

If there should further be national claims in the country, in which the set has been registered, such claims must of course also be complied with.

Yours faithfully,
p.p. S.P. Radio A/S

Ole Simon Petersen