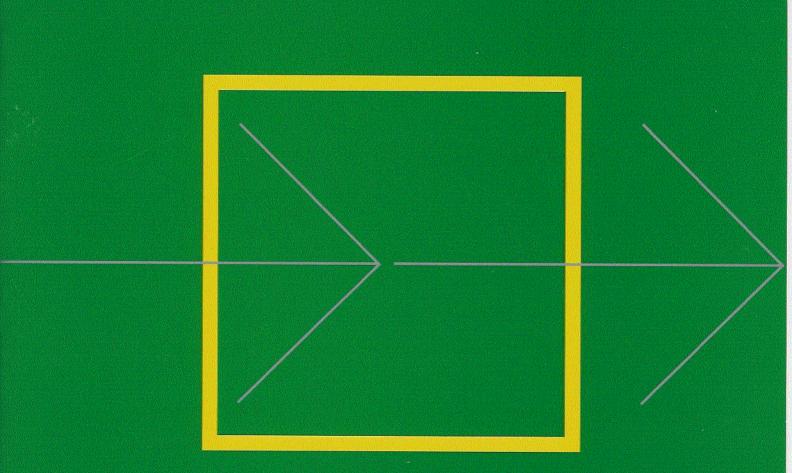
### ENGLISH

# SAILOR COMPACT 2000 PROGRAMME

# **VHF RT2048**



# SAILOR

The SAILOR RT2048 VHF radiotelephone has been designed to comply with the increasing demands of a highly technological product, which means high quality, small size, etc.

The SAILOR RT2048 is furthermore designed to fit into the SAILOR Compact 2000 module programme.

The SAILOR RT2048 can either be installed and operated as an independent unit, or in combination with other elements of the Compact 2000 programme. These include a Duplex VHF radiotelephone, a coast telephone station with a 400W PEP SSB transmitter and an SSB receiver with built-in FM and AM bands, and a scrambler which ensures complete communication secrecy.

The SAILOR VHF RT2048 has, by means of the latest technology in casting technique, been constructed to withstand the most extreme conditions experienced in small, semi-open boats.

The printed circuits inside are designed with a high degree of compactness and exceptional performance.

In the design of this VHF radiotelephone, S. P. Radio have taken into account all the circumstances it will be exposed to in day-to-day operation. However, even a product of this high quality requires regular servicing and maintenance, and we recommend a close observance of the directions contained in the instruction book. S. P. Radio is one of Europe's leading producers of mari-

time radio communication equipment – a position which has been maintained by means of constant and extensive product development. We have a world-wide network of dealers with general agencies in fifty countries. All our dealers are well-trained and able to service all SAILOR products.

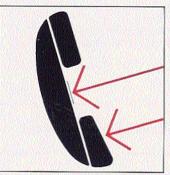


DK-9200 AALBORG SV · DENMARK



#### NOTE:

- The distress call should be repeated from time-to-time until an answer is heard.
- If no reply is heard on channel 16, the call should be repeated on any other available channel.
- Speak slowly, pronouncing each word distinctly.



### PRIVATE CHANNELS

There is standard provision for the programming of up to 10 private channels. However, it is possible to increase the total to 40 private channels if the scanning facilities are not required.

A private channel is indicated with a prefix and a single digit. For the 10 standard channels the prefix is a "P", if increased to 40 private channels the prefix will be "A", "E" and "F".

Private channels include fishing and leisure channels as well as the special channels allocated by post and telegraph authorities.

#### DISTRESS CALL PROCEDURE

Transmit on channel 16: MAYDAY MAYDAY MAYDAY This is:

NAME OF SHIP, call sign or other identification (THREE TIMES), followed by:

MAYDAY – NAME OF SHIP – Position, type of emergency, help required and other information which may help rescue operations.

For clarity when SPELLING OUT words the following alphabet should be used:

N - November

O - Oskar

P - Papa

Q - Quebec

R - Romeo

S - Sierra

T - Tango

V - Victor

X - X-rav

7 - Zulu

Y - Yankee

U – Uniform

W- Whiskey

A	4	Alfa	

- B Bravo
- C Charlie
- D Delta
- E Echo
- F Foxtrot
- G Golf
- H Hotel
- I India
- J Juliett
- K Kilo
- L Lima M – Mike
  - like



#### OPERATING

The operating panel is provided with a really high quality push-button keyboard offering an attractive solid feel. Furthermore keyed operations are instantly confirmed by means of the display read-out.

To ensure safe operation under all conditions the keyboard is fitted with night-time illumination.

#### SIMPLEX/SEMI-DUPLEX COMMUNICATION

All the communication, that means ship/ship, ship/port, and ship/coast station are carried out in the simplex or semi-duplex mode. This means that the handset key switch is depressed while the message is delivered, ending with the word "over". The switch is now released, allowing the other party to reply.



## CONTROLS

	Indication of ON/OFF/VOL turn-style knob operation.	Deletes a channel from the scanning table.
		Scan The time chosen is the listening time on one of the secondary channels receiving a signal.
	Squelch sensitivity control knob with turn-style operation.	Dw. Selects the dual watch facility.
16	Quick selection of the call and distress channel 16.	Selects 1W reduced power output.
1	Digits from 1 to 0.	Selects the VHF channels used in the USA.
SHIFT	Activates the functions marked in orange on the keyboard. Whenever the keyboard is in "shift-mode" it will be indicated by "corner-	The intensity of the LED-indicators can be controlled in four steps. The keyboard illumination is switched on and off
	bars" in the display.	SEICALL TR TR TR TR Tests the selcall decoder and resets the selcall decoder after a call.
CAN	Selects scanning programme.	P Selects the standard private channels.



## READ-OUT

#### CHANNEL READ-OUT

All international maritime channels are shown by the two digits, when the channel has been keyed in. Selection of a standard private channel will be indicated with a P-.

### • REDUCED POWER

In harbour areas or in the close vicinity of another vessel, transmissions should be with reduced power. When the display shows 1W, the transmitter output power is reduced from 25W to 1W. Where two stations are close together, this reduction can improve communication quality.

#### TRANSMITTING

Whenever the handset switch is depressed, and the transmitter output power level has reached an appropriate level, the "TX" will appear.

US

If the transmitter time-out timer is enabled, and an automatic termination of a transmission has occurred this indicator will be flashing.

#### US-CHANNELS

In the USA a number of the international duplex channels are used as simplex channels. Ships sailing in American waters must therefore be able to select these channels as simplex channels. The appearance of "US" on the display indicates that this mode of operation is in use.

### OPERATION

The VHF radiotelephone is operated by means of two turn-style knobs and a push-button keyboard. This combination ensures a high continuous resolution on squelch and AF-level, and an easy selection of channels etc. in all situations.

The high efficient LED-display shows the operating channel both under normal use and in dual watch mode. Also, the display indicates when the set is scanning or a call has been detected by the selcall decoder. The functions 1W, TX, and US are indicated by means of LED-illumination.

When the station is switched off, the necessary settings will be stored in the built-in-memory, and as soon as the station is switched on again, it will start up on the same channel etc.

#### How to Select the Distress and Call Channel 16

Press:



Read-out:



#### How to Select a Channel

E.g. channel 23. Press:



Read-out:



How to Select a Private Channel



Read-out:



#### How to Select Reduced Output Power





Read-out:

Tx US

#### How to Return to 25W Output Power

Press:



15



#### How to Select Channels Used in the USA

Press:



Read-out:



How to Raise Output Power to 25W on Channel 13 or 67 in US-Mode

Press:



depressed simultaneously with the handset key.

#### Read-out:



#### How to Return to International Channels

Press:







#### How to Change Display Light Intensity

Press:



For single step change



depressed for multiple step change.

Totally 4 steps ind the cycle. In the step before extinction, the keyboard will be illuminated.

### SELECTIVE CALLING (If built-in)

When a selective call is received from a coast station, the read-out will alternatively show CA, and the actual selected channel and the acoustic alarm will sound for 10 seconds.

When an "all ships call" containing distress messages, gale warnings, navigational warnings, etc., is received from a coast station, the read-out will alternatively show CO. and the actual selected channel and the acoustic alarm will sound until the selcall is reset.

### DUAL WATCH OPERATION

In addition to the selected channel, which is shown on the display, the VHF station will listen on channel 16 for 0.1 second every 1.2 second.

If there is a signal on channel 11, the dual watch sequence will be as follows:

(a) and the set of a set of the process shall be readed and a set of the form	200 C 6 P 1 9	Calendar country and a construction of the second	0.07593	950191918480000000000000000000000000000000
16 11	16	11	16	11

Any signal received on channel 16 will be heard continuously and the read-out will show "16" until the signal ceases.

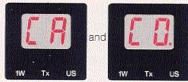
If the transmitter is keyed, the dual watch function will be switched off and the read-out will show the channel selected.

#### How to Test the Selcall Decoder

#### Press:



The read-out will alternate between:



The acoustic alarm will sound.

This read-out indicates that the test has been correctly carried out.

#### Now press:



to reset the selcall decoder.

#### How to Reset the Selcall Decoder

After an individual call or an "all ships call" has been received, press:

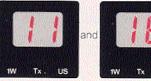


#### How to Select Dual Watch





Read-out:



alternatively.

#### How to Switch Off

**Dual Watch** 

Press:



Read-out:



# SCANNING OPERATION

The VHF radiotelephone is provided with a flexible scanning facility.

The scanning programme is fully user programmable, and can include all the international channels and the ten private channels P0 - P9.

When a scanning programme is created by the operator, the programme will be stored in a memory which retains the scanning programme even when the station is switched off.

The scanning programme can be changed during operation by pressing "ADD" or "DELETE".

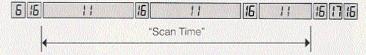
#### SCANNING

In principle, scanning is an advanced form of the dual watch system in which the secondary channel selected changes constantly whilst the distress and call channel 16 is listened to simultaneously.

If, for example, a scanning programme consists of channels 6, 11, 17, and 70, the scanning sequence will look like this:

#### 5 16 1 16 17 16 70 16 6

If there is a signal on channel 11 the sequence will be:



The "Scan Time" is the time during which the scanner listens out on channel 11 whilst at the same time watching out on channel 16, – exactly as it happens on the dual watch system. The "Scan Time" can be programmed by the operator.

To obtain a continuous listening to the signal being received on channel 11, the scanning is stopped by simply pressing "SHIFT" "SCAN".

The scanning can be started again by pressing "SHIFT" "SCAN".

#### How to Start the Scanner

Press:

Read-out:

Tx US

#### How to Stop the Scanner

Press any of the buttons:



Read-out e.g.:



The channel number corresponding to the activated push-button.

#### How to Return to

the Last Channel with Signal



#### How to Check the Channels Contained in the

#### Scanning Programme

Press:



and the channels in the programme will slowly be shown in the display.

#### How to Add a Channel

#### to the Scanning Programme

E.g. to add channel 69, press:



Read-out:



To restart the scanning programme, press:



Read-out:



### How to Delete a Channel from the Scanning Programme

E.g. to delete channel 69, press:



The read-out shows the next channel in the programme, e.g.:



The revised scanning programme becomes operative by pressing:



Read-out:



#### How to Read the Programmed "Scan Time"

Press:



and the actual "Scan Time" will be read out in the next 2.5 seconds, e.g. scan time = 5 seconds:



followed by the selected channel.

#### How to Programme/Change the "Scan Time"

To set the "Scan Time" to 10 seconds, press:



Notel After "SHIFT" "Scan Time" has been keyed in, the maximum time between the following entries must be 2.5 seconds, or the input sequence will be ignored.

The read-out will be the entered digits, followed by the selected channel after a period of 2.5 seconds.

#### **Empty Scanning Programme**

If the scanning programme is empty, or attempt has been made to add a new channel to a »full« scanning programme (which means that the existing programme includes the maximum number of channels permitted), the read-out will show:



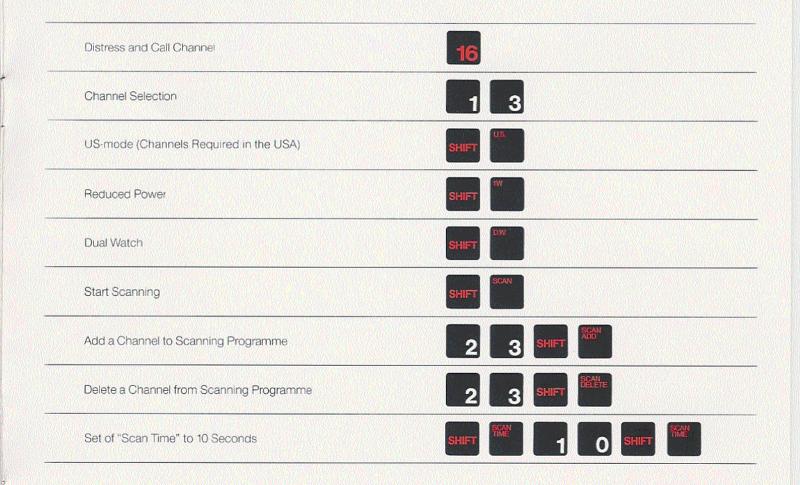
for a period of 2.5 seconds, followed by the selected channel.

# CHANNEL APPLICATION AND FREQUENCY TABLE

				/			3/		//		/		/		
	/ .	/ /	///			1515		/	/ /	/ /	/     ,	///			
	MHLS SHR	/ /				18181		/	10/	2/	/	///			/
/.	MALS PAR	~ /~	BUC		13	\$1.51	/	/ /	MARTIN PARTY	1. 1.	PUB	0		1/5	
CHP	ANU ALES OF		58-	1	×/s	5/	/	-HP	5/25/2	A 200	15	~/	10	3/0	5
ſ	SIMPLEX	DUPLEX	FREQUENCIES	$\alpha \sim$	$\gamma$	FREQUENCIES		$\int $	SIMPLEX	DUPL	EX (	FREQUENCIES	<pre>//``</pre>	10	í
1		• •	Tx: 156.050 MHz Rx: 160.650 MHz	0		Tx: 156.050 MHz Rx: 160.650 MHz		60	22.23 (52.2)	•	•	Tx: 156.025 MHz Rx: 160.625 MHz		0	F
2	S. 80 18.03	• •	Tx: 156.100 MHz Rx: 160.700 MHz		0	Tx: 156.100 MHz Rx: 160.700 MHz	1222	61	0.000 8020	•	•	Tx: 156.075 MHz Rx: 160.675 MHz	1920	0	Ī
3	NAME CARE	•	Tx: 156.150 MHz Rx: 160.750 MHz		0	Tx: 156.150 MHz Rx: 160.750 MHz	1996	62	12.053 12.82	•	•	Tx: 156.125 MHz Rx: 160.725 MHz	538	0	Ī
4	2693 (236)	• •	Tx: 156.200 MHz Rx: 160.800 MHz		0	Tx: 156.200 MHz Rx: 160.800 MHz		63		•	•	Tx: 156.175 MHz Rx: 160.775 MHz	0		F
5		• •	Tx: 156.250 MHz Rx: 160.850 MHz	0		Tx: 156.250 MHz Rx: 160.850 MHz		64	TANK TANK	•	•	Tx: 156.225 MHz	N3N	0	F
6	•	16.0 S. S. S. S.	Tx: 156.300 MHz Rx: 156.300 MHz	0	0.00	Tx: 156.300 MHz Rx: 156.300 MHz		65	STAR STAR	•	•	Rx: 160.825 MHz Tx: 156.275 MHz Rx: 160.875 MHz	0	R.S.S.	t
7	164.8 5583	• •	Tx: 156.350 MHz Rx: 160.950 MHz	0	188	Tx: 156.350 MHz Rx: 156.350 MHz		66		•	•	Tx: 156.325 MHz Rx: 160.925 MHz	0	100	t
8	•	28.36 853	Tx: 156.400 MHz Rx: 156.400 MHz	0		Tx: 156.400 MHz Rx: 156.400 MHz		67	• •	100000		Tx: 156.375 MHz Rx: 156.375 MHz	0	133	t
9	• •		Tx: 156.450 MHz Rx: 156.450 MHz	0		Tx: 156.450 MHz Rx: 156.450 MHz	13.223	68	•	0.000		Tx: 156.425 MHz Rx: 156.425 MHz	0		F
10	• •	1000	Tx: 156.500 MHz Rx: 156.500 MHz	0	1983	Tx: 156.500 MHz Bx: 156.500 MHz		69	• •		03.01	Tx: 156.475 MHz Rx: 156.475 MHz	0	1.69	Ē
11	•	83331888	Tx: 156.550 MHz Rx: 156.550 MHz	0	1000	Tx: 156.550 MHz Rx: 156.550 MHz		70	DSC	WE LOW		Tx: 156.525 MHz Rx: 156.525 MHz	0	172	t
12	•	N. 68 (193)	Tx: 156.600 MHz Rx: 156.600 MHz	0		Tx: 156.600 MHz Rx: 156.600 MHz		71	•		2012	Tx: 156.575 MHz Rx: 156.575 MHz	0		t
13	• •	66 (S. 1	Tx: 156.650 MHz Rx: 156.650 MHz	0		Tx: 156.650 MHz Rx: 156.650 MHz		72	•	100000		Tx: 156.625 MHz Rx: 156.625 MHz	0		Ē
14	•	9689 SV3	Tx: 156.700 MHz Rx: 156.700 MHz	0		Tx: 156.700 MHz Rx: 156.700 MHz		73	• •			Tx: 156.675 MHz Rx: 156.675 MHz	0		t
15	• •	3.662 (CC)	Tx: 156.750 MHz Rx: 156.750 MHz	0		Tx: 156.750 MHz Rx: 156.750 MHz		74	•	NAME OF		Tx: 156.725 MHz Rx: 156.725 MHz	0	1220	t
16	Distress and	d Calling	Tx: 156.800 MHz Rx: 156.800 MHz	0	1372	Tx: 156.800 MHz Rx: 156.800 MHz		75	Guard Ba	nd	1000	Tx: 156.775 MHz Rx: 156.775 MHz			Ī
17	• •		Tx: 156.850 MHz Rx: 156.850 MHz	0	1968	Tx: 156.850 MHz Rx: 156.850 MHz	Burk.	76	Guard Ba	nd	1910	Tx: 156.825 MHz Rx: 156.825 MHz	1300		t
18	10. 10 10 10 10 10 10 10 10 10 10 10 10 10	•	Tx: 156.900 MHz Rx: 161.500 MHz	0	1000	Tx: 156.900 MHz Rx: 156.900 MHz		77	•	0.000	126	Tx: 156.875 MHz Rx: 156.875 MHz	0	1178	ţ
19	1996	•	Tx: 156.950 MHz Rx: 161.550 MHz	0		Tx: 156.950 MHz Rx: 156.950 MHz		78		•	•	Tx: 156.925 MHz	0		t
20	1997 (1997)	•	Tx: 157.000 MHz Rx: 161.600 MHz	1000	0	Tx: 157.000 MHz Bx: 161.600 MHz		79	2722 530	•	0000	Rx: 161.525 MHz Tx: 156.975 MHz Rx: 161.575 MHz	0	1050	t
21	1803	•	Tx: 157.050 MHz Rx: 161.650 MHz	0	19978	Tx: 157.050 MHz Rx: 157.050 MHz	0.888	80	PARKS STAT	•	1005	Rx: 161.575 MHz Tx: 157.025 MHz Rx: 161.625 MHz	0		t
22	arsher kasila	•	Tx: 157.100 MHz Rx: 161.700 MHz	0		Tx: 157.100 MHz Rx: 157.100 MHz		81	12.00	•	•	Tx: 157.075 MHz Rx: 161.675 MHz	0	130	t
23	65%2 B(C)	•	Tx: 157.150 MHz Rx: 161.750 MHz	0		Tx: 157.150 MHz Rx: 157.150 MHz		82	N-0.58 8.653	•	•	Tx: 157.125 MHz Rx: 161.725 MHz	0		ţ
24		•	Tx: 157.200 MHz Rx: 161.800 MHz	17.8	0	Tx: 157.200 MHz Rx: 161.800 MHz		83		165765	•	Tx: 157.175 MHz Rx: 161.775 MHz	0	188	t
25		•	Tx: 157.250 MHz Rx: 161.850 MHz		0	Tx: 157.250 MHz Bx: 161.850 MHz	13200	84	100 M 1997	•	•	Tx: 157.225 MHz Rx: 161.825 MHz	133	0	t
26	NAME NAME	•	Tx: 157.300 MHz Rx: 161.900 MHz	13/8	0	Tx: 157.300 MHz Rx: 161.900 MHz		85	1200 8 2300	12/2/28	•	Tx: 157275 MHz Rx: 161.875 MHz		0	t
27	AND AVER	•	Tx: 157.350 MHz Rx: 161.950 MHz	10.3	0	Tx: 157.350 MHz Bx: 161.950 MHz		86		0.00000	•	Tx: 157.325 MHz	0.00	0	t
28	2011 30173	•	Tx: 157.400 MHz Rx: 162.000 MHz		0	Tx: 157.400 MHz Bx: 162.000 MHz		87	10.00		•	Rx: 161.925 MHz Tx: 157.375 MHz Rx: 161.975 MHz		0	t
Р	Res Galeran	18.12. (20.8)						88	SCS / 1977	•	•	Tx: 157.425 MHz Rx: 152.025 MHz	0	1999	ţ
Р		N. C. MARKEN				1000	1	Р		NACES OF		14. TOL 020 WITZ		193.181	ţ
P	NORMANDA ST	( Special de			1999			Р	C.S. State 1		198.25	A STATISTICS OF STATIST	1979	81010	ţ
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	SIMPLEX	DUPLEX	FREQUENCIES	15	K	FREQUENCIES
60	1933.00 (3.673)	• •	Tx: 156.025 MHz Rx: 160.625 MHz	235	0	Tx: 156.025 MHz Rx: 160.625 MHz
61	E PROPERTY STORAGE		Tx: 156.075 MHz	1000000	0	Tx: 156,075 MHz
201-1010/25			Rx: 160.675 MHz Tx: 156.125 MHz	10000	-	Rx: 160.675 MHz Tx: 156.125 MHz
62	S SAMPA MARK	• •	Rx: 160.725 MHz	Sec.	0	Rx: 160.725 MHz
63		• •	Tx: 156.175 MHz Rx: 160.775 MHz	0		Tx: 156.175 MHz Rx: 160.775 MHz
64	TOUR TRACK		Tx: 156.225 MHz	NUM	0	Tx: 156.225 MHz
65		• •	Rx: 160.825 MHz Tx: 156.275 MHz	0	12001	Rx: 160.825 MHz Tx: 156.275 MHz
Contraction of the	100000 2.387/2		Rx: 160.875 MHz Tx: 156.325 MHz	0	137773	Rx: 156.275 MHz Tx: 156.325 MHz
66	AND DURING	• •	Rx: 160.925 MHz	0	250	Rx: 156.325 MHz
67	• •	27833 23 23 27	Tx: 156.375 MHz Rx: 156.375 MHz	0		Tx: 156.375 MHz Rx: 156.375 MHz
68		198203 8826v	Tx: 156.425 MHz Rx: 156.425 MHz	0	10000	Tx: 156.425 MHz
69		100000 V 10205 00	Tx: 156.475 MHz	0	1000	Rx: 156.425 MHz Tx: 156.475 MHz
1947 W (104)		Set in a set of	Rx: 156.475 MHz Tx: 156.525 MHz	1	123.6	Rx: 156.475 MHz Tx: 156.525 MHz
70	DSC		Rx: 156.525 MHz	0		Rx: 156.525 MHz
71	•	103300 3 2078	Tx: 156.575 MHz Rx: 156.575 MHz	0	10.74	Tx: 156.575 MHz Rx: 156.575 MHz
72	Son Statist	127.00 8017	Tx: 156.625 MHz	0	10.70	Tx: 156.625 MHz
A COLORADO		The second s	Rx: 156.625 MHz Tx: 156.675 MHz	0		Rx: 156.625 MHz Tx: 156.675 MHz
73		STUDY MARK	Rx: 156.675 MHz Tx: 156.725 MHz	-	10.0	Rx: 156.675 MHz Tx: 156.725 MHz
74		出版 建合合	Rx: 156.725 MHz	0		Rx: 156,725 MHz
75	Guard Bar	nd	Tx: 156.775 MHz Rx: 156.775 MHz			Tx: 156.775 MHz Rx: 156.775 MHz
76	Guard Bar	A PLATE A REAL AND A PLATE	Tx: 156.825 MHz	58575	01578	Tx: 156.825 MHz
	Control & Partner Altar Diverting & and partner in which Constructions and	ENDING STORES	Ax: 156.825 MHz Tx: 156.875 MHz	6	1212.00	Bx: 156.825 MHz Tx: 156.875 MHz
77	•	111130 106938	Rx: 156.875 MHz Tx: 156.925 MHz	0	107.0	Rx: 156.875 MHz Tx: 156.925 MHz
78	210.000	• •	Rx: 161.525 MHz	0	1.13	Rx: 156.925 MHz
79	12.200 55600	•	Tx: 156.975 MHz Rx: 161.575 MHz	0	10,0	Tx: 156.975 MHz Rx: 156.975 MHz
80	0.0000000000000000000000000000000000000		Tx: 157.025 MHz	0	SUSS	Tx: 157.025 MHz
CO-TA-TEOCK		Constant of Constants	Rx: 161.625 MHz Tx: 157.075 MHz	00000	202030	Rx: 157.025 MHz Tx: 157.075 MHz
81	1 100 50 100 000 000 000 000 000 000 000	• •	Rx: 161.675 MHz Tx: 157.125 MHz	0		Rx: 157.075 MHz Tx: 157.125 MHz
82	Cold States		Rx: 161.725 MHz	0	1225	Rx: 157.125 MHz
83	CONTRACTOR N		Tx: 157.175 MHz Rx: 161.775 MHz	0	100	Tx: 157.175 MHz Rx: 157.175 MHz
84	710000 00000		Tx: 157.225 MHz	111	0	Tx: 157.225 MHz
		CONTRACTOR CONTRACTOR	Rx: 161.825 MHz Tx: 157.275 MHz	2000	0	Rx: 161.825 MHz Tx: 157.275 MHz
85		•	Rx: 161.875 MHz Tx: 157.325 MHz		-	Rx: 161.875 MHz Tx: 157.325 MHz
86			Rx: 161.925 MHz		0	Rx: 161.925 MHz
87	1.018	•	Tx: 157.375 MHz Rx: 161.975 MHz	128	0	Tx: 157.375 MHz Rx: 161.975 MHz
88	1 2020 2020	0 0	Tx: 157.425 MHz	0	1000	Tx: 157.425 MHz
P			Rx: 162.025 MHz	-	CONTRACTOR OF	Rx: 157.425 MHz
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### QUICK SELECT CHART







PORSVEJ 2 • DK-9200 AALBORG SV • DENMARK TEL. INT. + 45 9818 0999 • TELEX 69 789 SPRAD DK • TELEFAX INT.+ 45 9818 6717 E-mail: sailor@sailor.dk