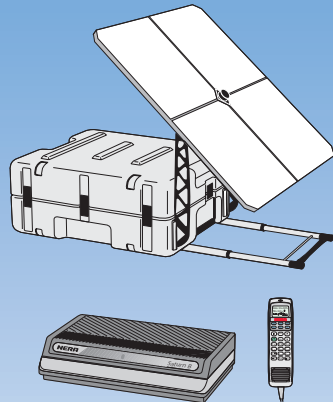
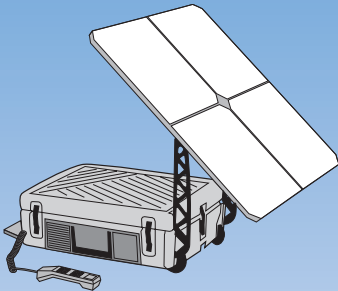
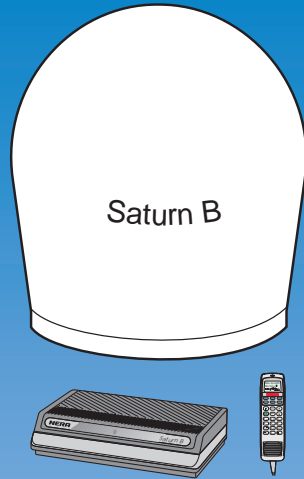
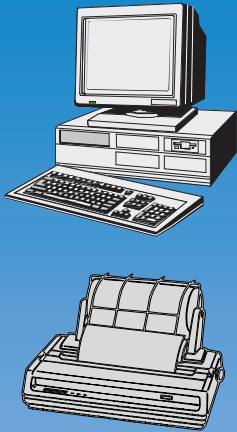


Saturn B C1 Telex Operator's Manual



NERA
TELECOMMUNICATIONS

Changing the way you
communicate

SATURN B – TELEX DISTRESS CALL

TRANSMISSION

- 1 Turn on the telex PC and type SATB on the key-board to start the program.
- 2 Press **[T]** to activate the telex mode.
- 3 Lift flap over **DISTRESS BUTTON**.
Press and hold down DISTRESS BUTTON for at least 6 seconds.

Reception:

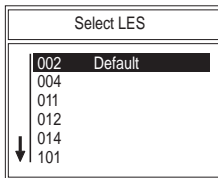
ACKNOWLEDGE PUSH BUTTON
ALARM INDICATOR
ALARM BUZZER

Transmission:

Indicator flashes slowly, then quickly after 6 seconds



- 4 A list of LESs appears on the screen.
Use arrow keys **[↓]** **[↑]** to select LES, and press **[↵]**.



- 5 Press **[F8]** to send Distress Message.
- 6 Follow the instructions from the RCC Operator, and when requested, press **[F9]** to clear the call and await further instructions.
- 7 Keep the line clear so that the RCC can call you back when necessary.

RECEPTION

- The **ALARM BUZZER** and **ALARM INDICATOR** are activated when a distress call is received.
- The **ALARM BUZZER** may be stopped locally by pressing the **ACKNOWLEDGE PUSH BUTTON**. Does not stop buzzer on other Distress Alarms, if installed.
- The message is displayed on the Telex PC and printed out on the printer.

Note! For further information on:

- Detailed operation, see "**Distress Alarm**".
- Distress Alarm setup, see "**Telex Configuration**".

Refer to the Saturn Bm Operator's Manual for further information on:

- Preferred Distress Land Earth Station, see "**Selecting Default Distress LES**".
- To check the operation of the Distress Alarm, see "**Distress Test**".

Chapter 1. Getting Started

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Chapter 3. Configuration

PC

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Appendix

Telex Country Codes	I
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Nera SatCom AS reserves the right to change the design and specifications of the equipment without notice.

1. Getting Started

2. Operation

3. Configuration

Appendix

This manual complies with PC Telex software version no.2.0.

Introduction	1.1
Telex Calls	1.2
Help Functions	1.5
Telex Connectors	1.8

Two versions of Saturn B Telex Terminal software are available for telex messaging:

- Normal version
- GMDSS version

The *normal version* can be run on a PC as a conventional MS-DOS program. It may be loaded when a telex message is to be created/transmitted and does not require that a printer is connected. Typing SATB on the PC keyboard starts the Saturn B Telex program.

The *GMDSS version* can only be run on a dedicated PC delivered by NERA, and is the only operative program on that PC. Accordingly, the program is started automatically at boot-up and there is no possibility to leave the program. The telex messages and logs are stored on diskette (however, a harddisk option is available on request).

At least one printer must be ready for reception, see "[Message Routing](#)" in chapter 3. Configuration.

The figure below shows a setup with a printer connected to both the Main Control Unit and the PC.

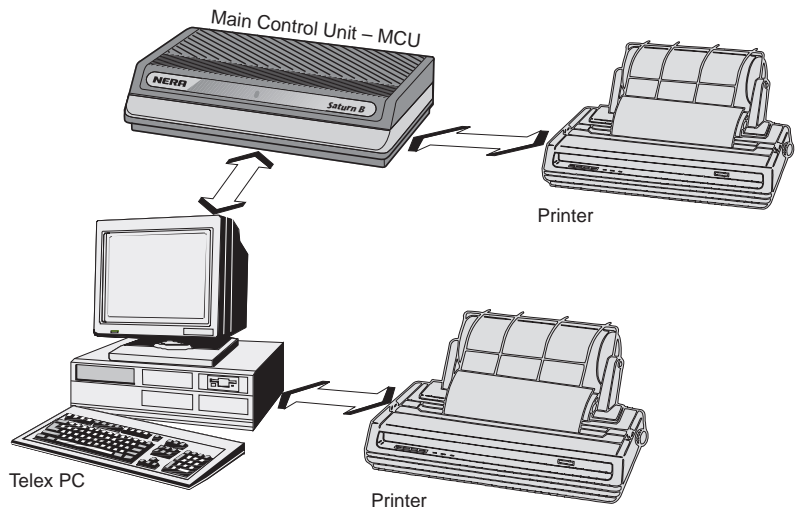


Figure 1.1 Telex setup with two printers.

Telex Calls

Telex Calls

There are two ways of sending a telex message:

- By selecting the "**Telex mode**" option from the main menu
- By selecting the "**Send message**" option in the "**Edit/send**" menu.

In "**Telex mode**", the PC behaves almost like an ordinary telex machine. You dial an LES number, the LES responds, you dial a telex number and the telex subscriber responds when connected. Then you can communicate with the other telex operator or send a prepared telex message file to the other telex machine.

When finished, you or the other telex operator clears the call and the connection is closed.

See "**Making a Telex Call**" in this chapter.

For more details on preparing a message and the "**Edit/send**" functions, see "**Text Editing**" and "**Sending Messages**" in chapter 2. *Operation*.

Receiving a Telex Call

Saturn B enters the **Telex mode** when receiving a message and displays it on the screen. The message is normally printed out automatically.

See "**Message Routing**" in chapter 3. *Configuration*.

The messages are automatically given sequentially numbered filenames, and are stored in the RX Log.

For later readout on the PC screen, see "**Logfiles**" in chapter 2. *Operation*.

Making a Telex Call

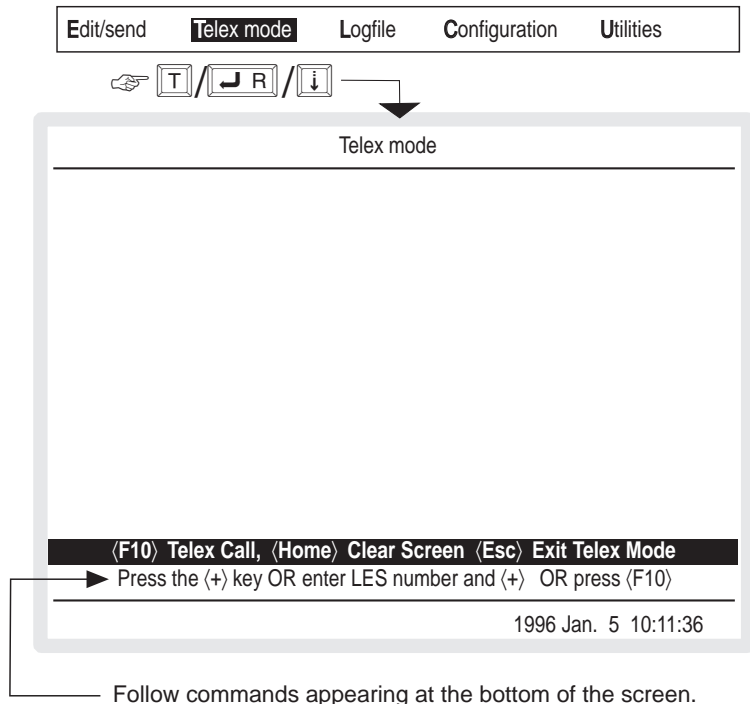
A new message is automatically given a sequentially numbered filename.

(For later readout on the PC screen, see **"Logfiles"** in chapter 2. Operation.)

For editing and changes of destination, see **"Text Editing"** and **"Sending Messages"** in chapter 2. Operation.

Procedure:

- 1 Activate the Telex mode:



Telex Calls Cont'd

- 2 Press **[+]** for call through the default LES, e.g. Eik
(**[F10]** to select LES).

The telex heading appears:

Telex Mode

+
Default LES selected
4+

OUTGOING DUPLEX TELEX

1996 Jan. 5 10:06 UTC PRIORITY: 0 LES: 004

96-01-05 08:00 EIK 004 AORE♣
325799919 NERA X
GA+
005671721+
71721 UMEB N

THIS IS A TEST

325799919 NERA X♣
71721 UMEB N

(F2) Letter Shift, (F3) Figure Shift, (F4) WRU, (F5) HERE IS, (F6) Bell
 (F9) Clear Call, (Ins) Send File, (Home) Clear Screen


CALL CONFIRM. Awaiting response fromLES

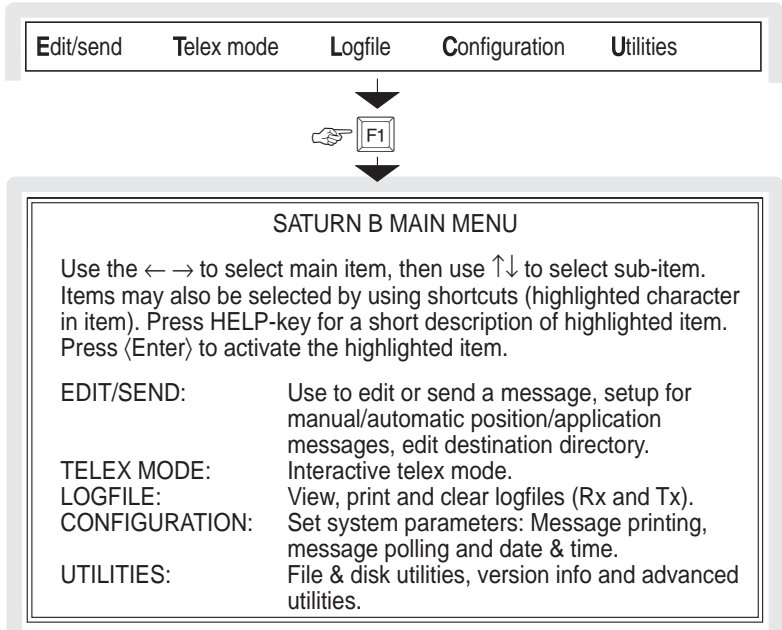
-Duplex Call Out 1996 Jan. 5 10:11:36

- await reply from LES:	96-01-05 08:00 EIK 004 AORE♣
- own answerback appears automatically:	325799919 NERA X
- await go ahead:	GA+
- enter subscriber number promptly:	005671721+
- subscriber's answerback:	71721 UMEB N
- type message:	THIS IS A TEST
- press [F5] and [F4] (HERE IS and WRU):	325799919 NERA X♣ 71721 UMEB N

- 3 Pressing **[F9]** clears the call and stores the message in the PC.


Main Menu Guide

When on the **main menu** line, pressing  displays the general help information shown below:

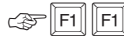


Help Functions Cont'd

Key Assignments

Pressing  when on the **main menu** line displays the first page of the function key descriptions.

Pressing  displays the next page:

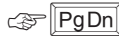


First page:

SATURN B MAIN MENU

The function key assignments on your machine are:


ESCAPE	Esc	Back up to the previous level.
BACKSPACE	Backspace	Delete the character to the left of the cursor.
INSERT	Ins	Insert a new item.
DELETE	Del	Delete an item.
MODIFY	F5	Rename/modify/edit an item.
SELECT	Enter	Accept information entered or select an item.
HELP	F1	Provide on-line help.
MARK	F3	Toggle marking for current item.
CYCLE	Tab	Cycle through menus or screens.
UP	Up arrow	Move up one line.
DOWN	Down arrow	Move down one line.
LEFT	Left arrow	Move left one position.





Second page:

The function key assignments on your machine are:

RIGHT	Right arrow	Move right one position.
SPECIAL UP	Ctrl PgUp	Move to the very beginning.
SPECIAL DOWN	Ctrl PgDn	Move to the very end.
SPECIAL LEFT	Home	Move to first position on line.
SPECIAL RIGHT	End	Move to last position on line.
PAGE UP	PgUp	Move up one page.
PAGE DOWN	PgDn	Move down one page.
FIELD LEFT	Ctrl Left arrow	Move left one field or word.
FIELD RIGHT	Ctrl Right arrow	Move right one field or word.


Function

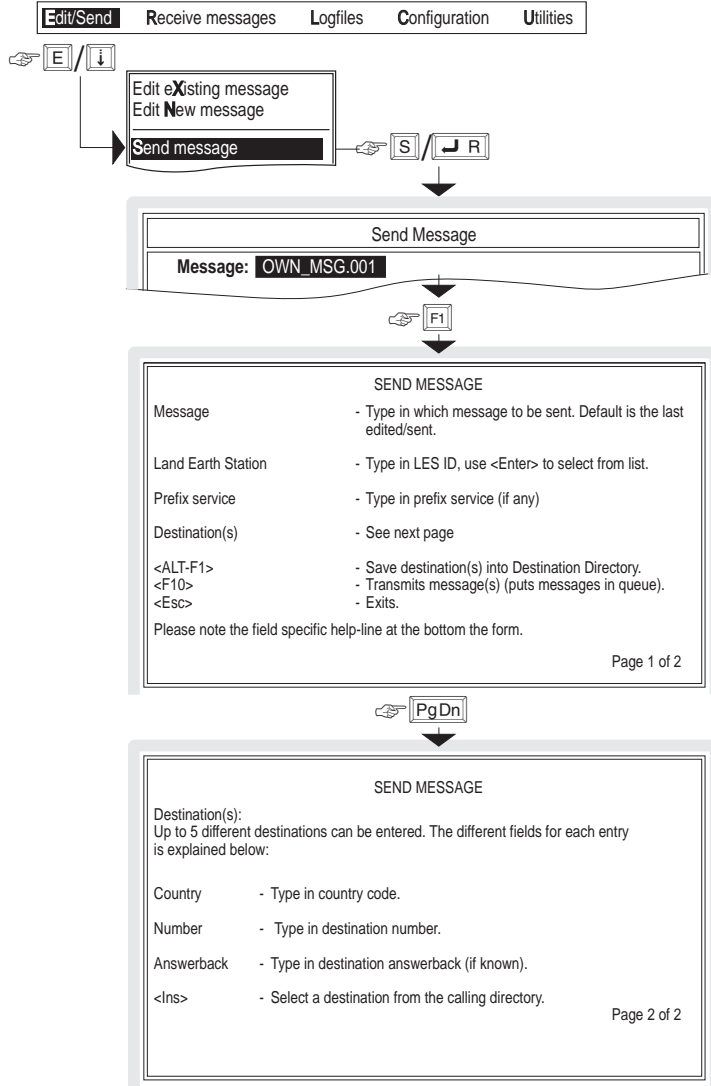

Key


Description

Detailed Help (Example: Send Message Window Fields)

Pressing **F1** when in a **submenu** or a **display window** displays relevant information on the function or field you have selected.

Pressing **PgDn** displays the next page. See example below.



First page:

Second page:

Telex Connectors

The figure below shows the telex connectors accessible on the rear panel of the Main Control Unit (MCU).

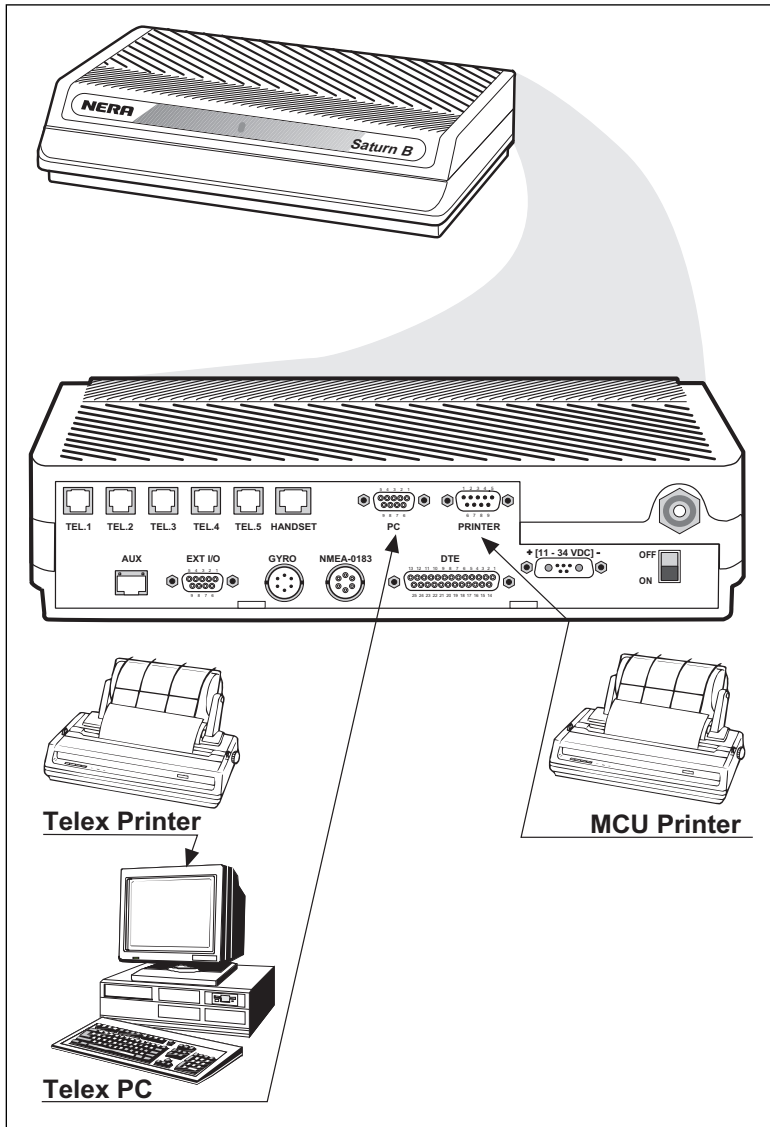
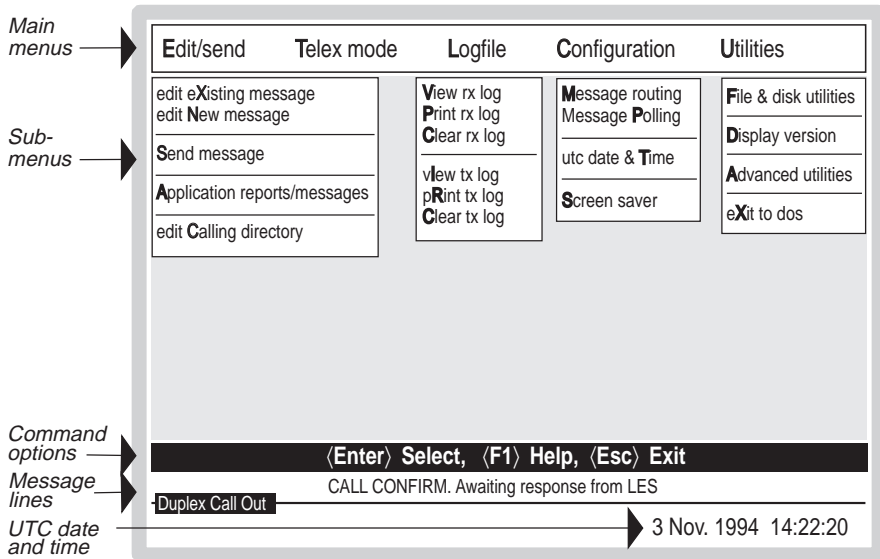


Figure 1.3 MCU connector panel.

Screen Display	2.1
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Distress Alarm (Saturn Bm Marine only)	2.32

The Saturn B telex program is operated by activating functions or by selecting items in menus:



Screen Display

Note!
The "eXit to DOS" function is not available on a GMDSS version.

Main Key Operations



sideways on the main menu, line or between functions in the pull-down menus.



up/down within the pull-down submenus.



brings the cursor down to the first function in a menu. It also activates any selected **HIGHLIGHTED** function.



Shortcuts (example):

Keying **BOLD CAPITAL** letter shown initiates the required function directly, e.g. **L V** = Logfile ⇒ **V**iew rx log.



sends message, and exits/saves the changes made under the function selected.



fetches help information.

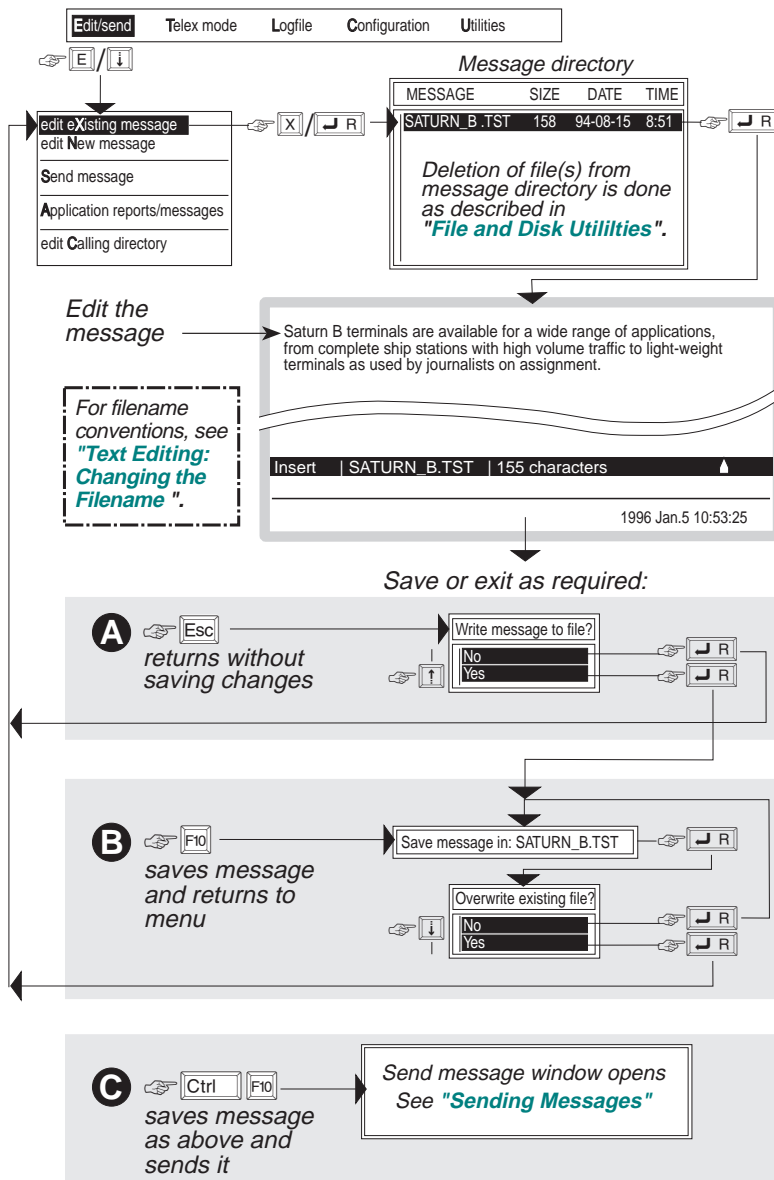


At any stage, pressing:

exits the function just activated without saving changes.

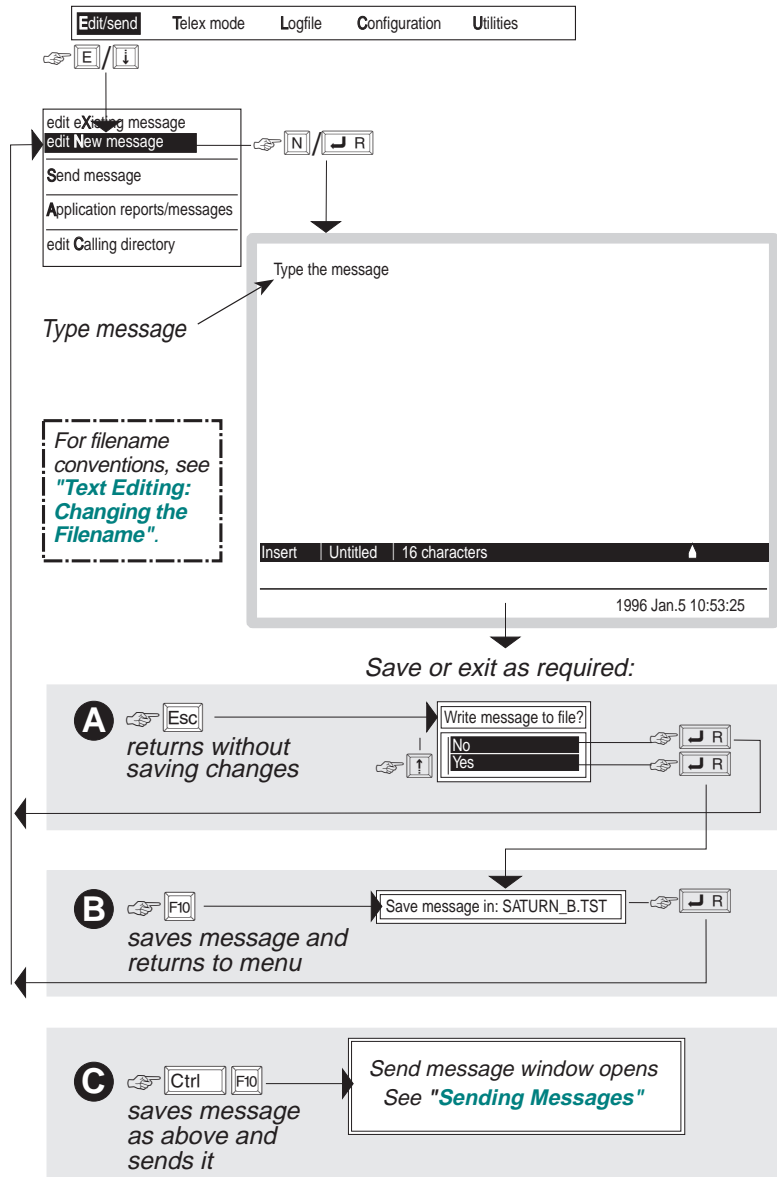
Editing and Sending an Existing Message

A stored message may be selected from the message directory and displayed as shown. See succeeding pages for editing commands.



Editing and Sending a New Message

A new message is prepared and transmitted as shown below.
See later in **"Text Editing"** for editing commands.



Editing and Sending a New Message

Text Editing

Changing the Filename

When saving a **New Message** a sequentially numbered filename is generated automatically. The name may be changed by erasing the old name and typing in a new one as indicated below.

Save message in: OWN_MSG.001 ← F10

Generating a new filename

The filename consists of :
**1 to 8 character filename, period and
0 to 3 character extension.**

Example:

SATURN.TST

The following characters are **invalid** in
filenames:

. " / \ [] : | < > + = ; ,

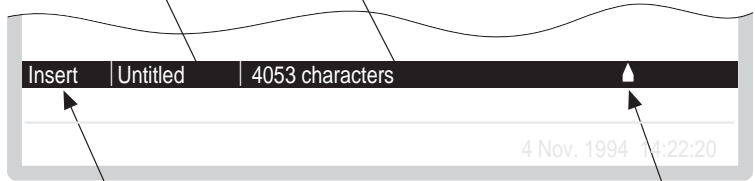
Avoid using names involved in PC
operation, such as COM1, LPT1, CON,
NUL etc.

Message Size

The maximum message size is about 31,000 characters.

Message Name

For generation of filename, see "[Changing the Filename](#)"



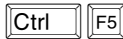
Insert/overwrite



toggles between:

- Insert** mode with half height cursor
- Overwrite** mode with full height cursor

Right Margin



sets the right margin. Default value is 72 (telex).

Move Cursor



moves cursor *up/down* in the directory or in text.



moves cursor *sideways*.



moves cursor to *top/bottom line*.



moves cursor to *start of document*.



moves cursor to *end of document*.

Text Editing Cont'd



moves cursor to *far left on line*.



moves cursor to *far right on line*.



moves cursor *one field or word to the left*.



moves cursor *one field or word to the right*.

Text Editing Cont'd

Delete Character



deletes character at cursor location.



(BackSpace) deletes character to the immediate left of the cursor.

Delete Word



deletes word to the right of the cursor.

Delete Line



deletes line at cursor location.

Saturn B provides 9600 bits/sec communication for mobile and remote users such as boats, trucks, telemetry installations, data acquisition points, etc.

Undelete



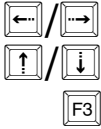
undoes most recent delete action.

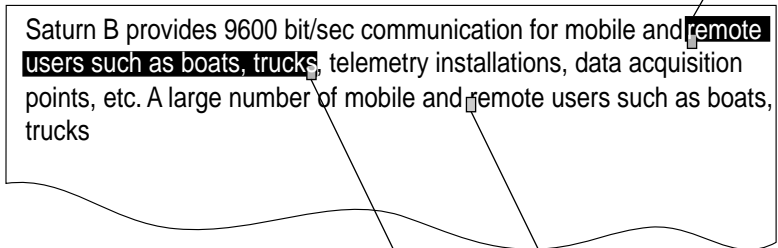
Cancel All Changes

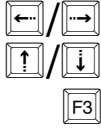


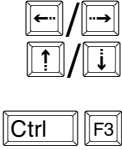
undoes all changes made in document and reverts to saved version.

Copy Block

1.  Move cursor to the start of the text to be copied, _____ and press: _____ to mark the start of the block. _____



2.  Move cursor to end of text block, _____ and press: _____ to mark end of block. _____ (inverse video disappears)

3.  Move the cursor to where the copied text is to be inserted and press: _____ to insert the text block at the new position. _____

Repeat: _____ if several copies are required.

Text Editing Cont'd

Centre Line



centres the line where cursor is located.

Tab Settings



sets tab intervals in a document.

Print



prints the message.

Save & Send



saves the message and displays the "**Send message**" window.

Save & Exit



saves the message and exits to the main menu.

Position Information



inserts the current geographic position into the message (at the point where placing the cursor).

Example:

Position report from MES . . . at 20-11-94 9:42 UTC

Latitude: 59 06.16 N

Longitude: 010 06.41 E

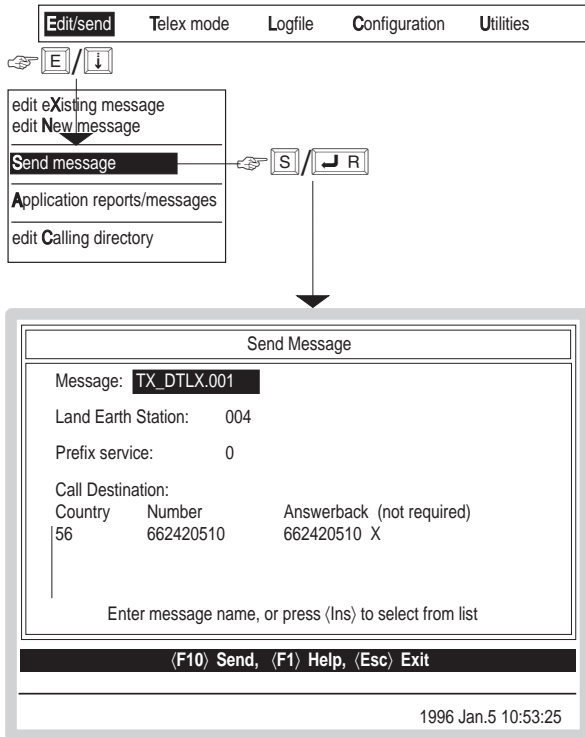
Course: 046

Speed: 15 knots

Last update: 20-11-94 9:42 UTC

Sending Messages

The telex to be sent is normally a text file that has been edited with the Saturn B editing commands described on the previous pages.



Sending Messages

Pressing sends message directly.
See the following pages for further explanation,
if changes in message name, destination and the
remaining entries are required.

Sending Messages Cont'd

Sending Messages Cont'd

Send Message

Message: TX_DTLX.001

Land Earth Station: 004

Prefix service: 0

Call Destination:

Country	Number	Answerback (not required)
56	662420510	662420510 X

Enter message name, or press (Ins) to select from list [Ins]

Message directory

- [F3] marks file
- [Ins] displays file
- [Alt] [F3] marks/unmarks all files
- [Del] deletes marked file(s)
- [F3] when repeated, unmarks file

MESSAGE	SIZE	DATE	TIME
TX_DTLX.001	847	02-11-94	11:03
RX_DTLX.001	850	03-11-94	13:25
TX_DTLX.000	887	03-11-94	16:00
RX_DTLX.003	2968	04-11-94	14:17
TX_DTLX.002	1056	04-11-94	15:25
RX_DTLX.004	987	05-11-94	10:00
TX_DTLX.003	1340	06-11-94	16:47
TX_DTLX.004	976	07-11-94	14:17

To select message [↓] [R]

To store address in calling directory:

[Alt] [F1]

Address to store in directory

Network: Telex

Address:	Country	Number	Answerback
	56	662420510	662420510 X

Store address in directory ?

No

Yes

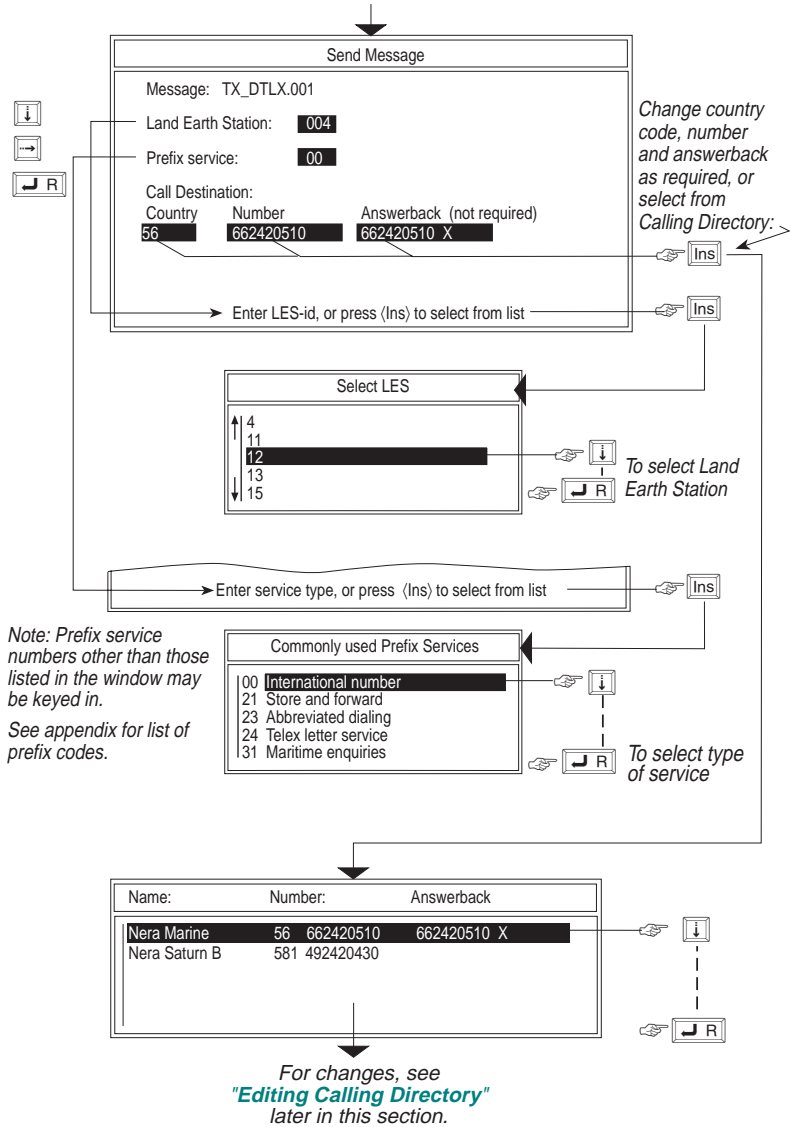
[R]

Type in entry name

Name:

[R]

Sending Messages Cont'd



Sending Messages Cont'd

Sending Messages Cont'd



Sending C:\MSG\SALES.TLX to 0051946384 via LES 4

OUTGOING DUPLEX TELEX

1996 Jan.5 12:51 UTC PRIORITY: 0 LES: 004

4+

96-01-05 08:59 EIK 004 AORE*
3257999919 NERA X
GA+
005671721+
71721 UMEB N
382420459 NERA X

THIS IS A TEST
++++

382420459 NERA X*
71721 UMEB N

90% OF C:\MSG\SALES.TLX complete
(Esc) Abort message file transfer

Expected destination answerback, got CLEAR from shore

Duplex Call Out 1996 Jan.5 11:05:41

Example of a series of messages displayed during the transmission.

Saturn B may transmit up to 4 different types of either manually or scheduled reports:

Position Message

Saturn B transmits the MES's geographic position when the report/message function is activated. The position data is either entered manually, or derived automatically via the NMEA-0183 interface:

- **Manual position message** – a message containing the current position is generated and sent to the destination(s) specified. Activated manually by the user.
- **Automatic position message** – as for manual position message, but automatically activated at times specified in schedule.

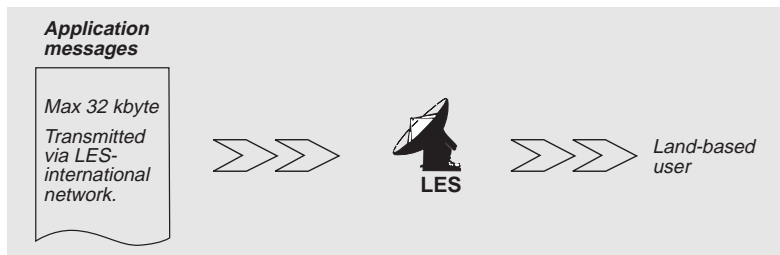
Example of **position message**:

Position report from MES . . . at 20-11-94 9:42 UTC
Latitude: 59 06.16 N
Longitude: 010 06.41 E
Course: 046
Speed: 15 knots
Last update: 20-11-94 9:42 UTC

Application Message

Reports may be transmitted to the land-based user as ordinary data messages, either scheduled for automatic transmission or initiated manually from the keyboard. Saturn B may also be set up to start external application programs:

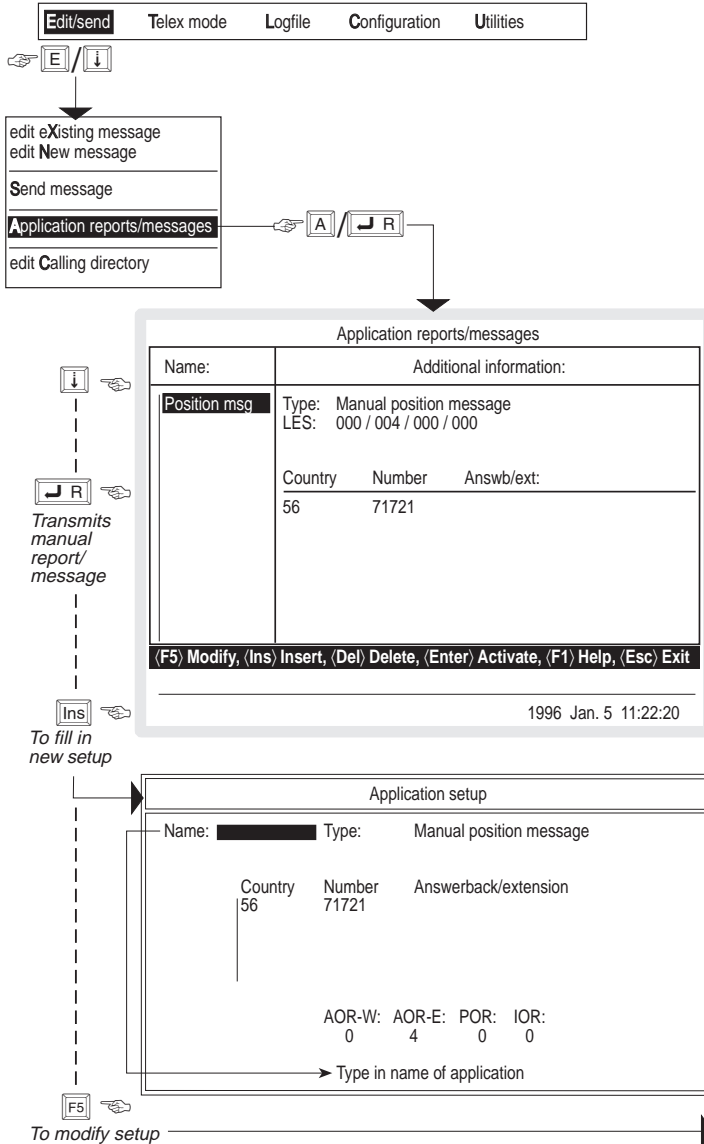
- **Manual application message** – starts an external application specified in the program. The resulting message is sent to the destination(s) specified. Activated manually by the user.
- **Automatic application message** – as for manual application message, but automatically activated at times specified in the schedule.



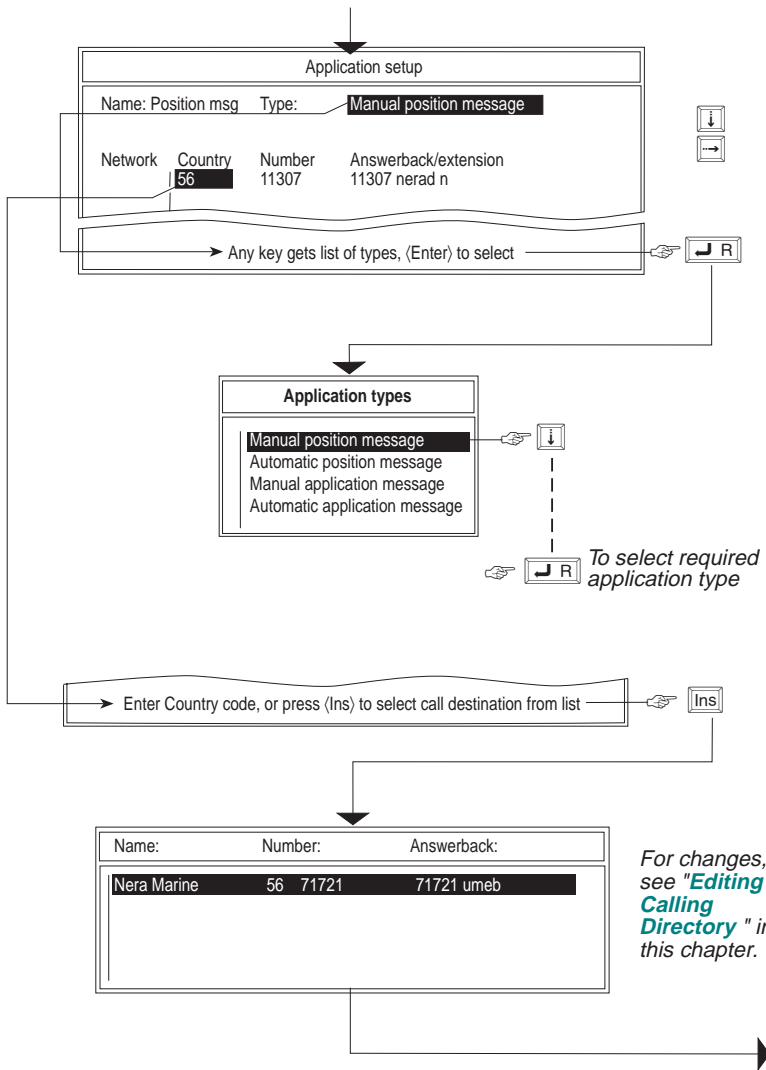
Application Reports/Messages Cont'd

Example of Manual Position Message Setup

See also help file: press **F1**

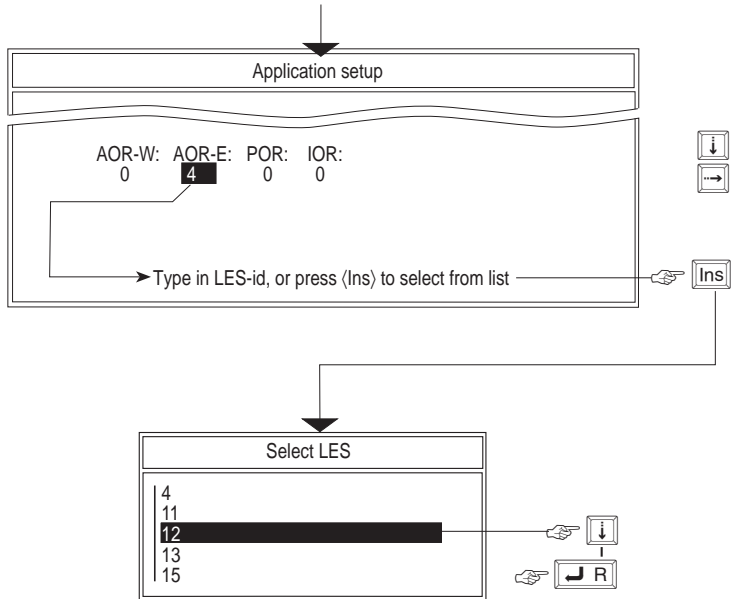


Application Reports/Messages Cont'd



Application Reports /Messages Cont'd

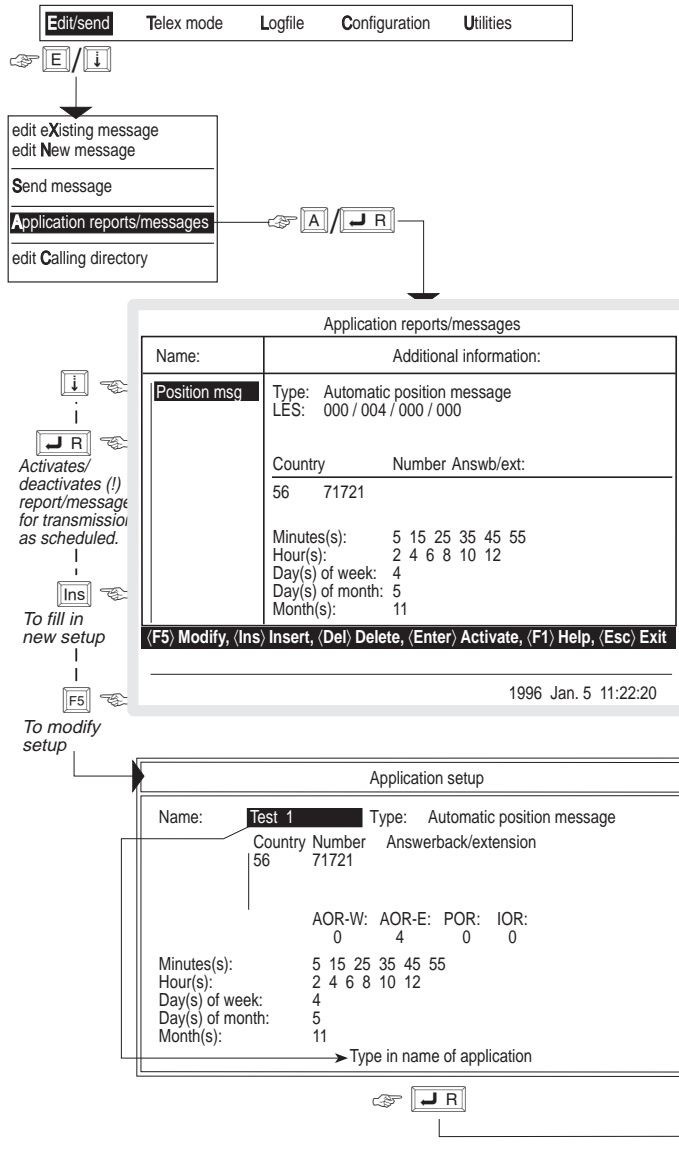
Application Reports/Messages Cont'd



Application Reports/Messages Cont'd

Example of Automatic Position Message Setup

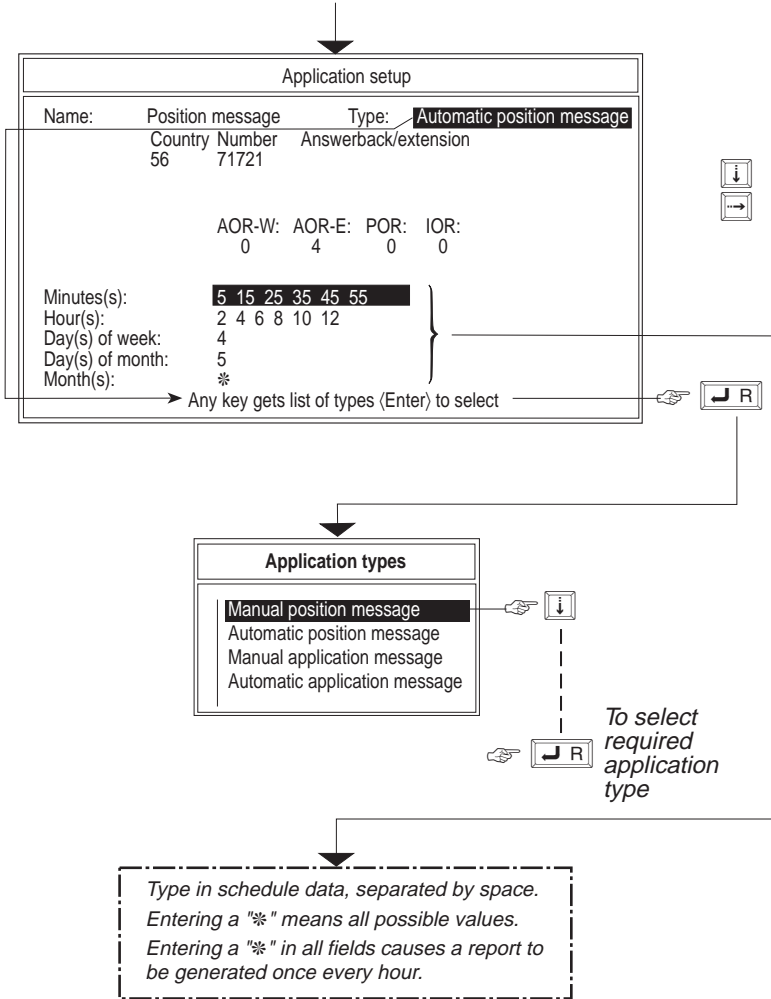
See also help file: press **F1**



Application Reports /Messages Cont'd

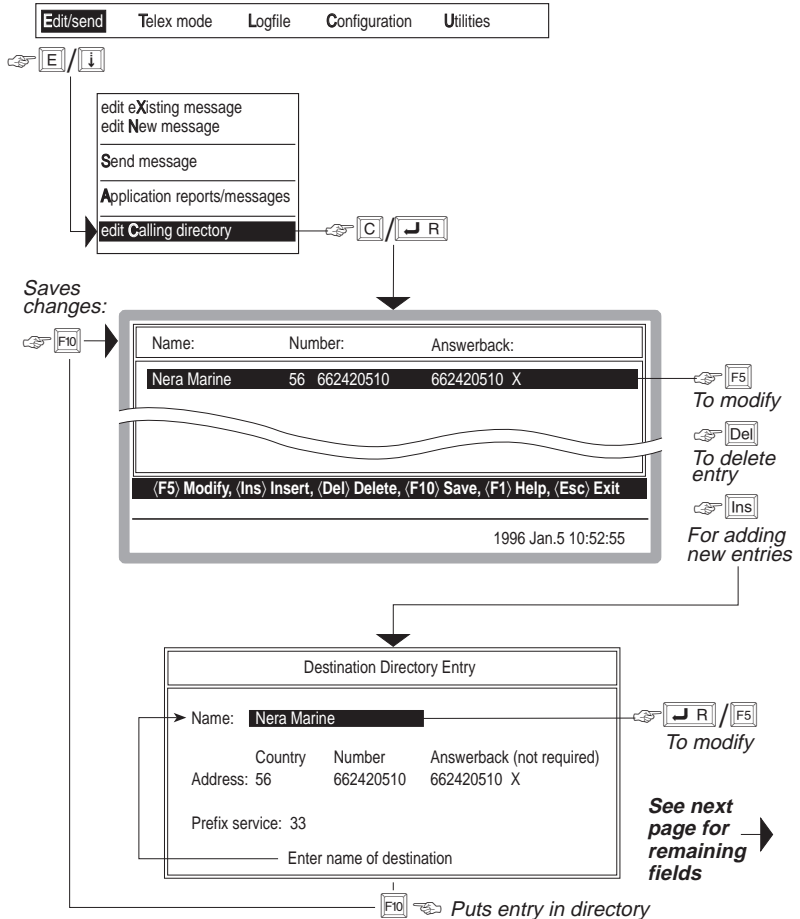
Application Reports/Messages Cont'd

Application Reports /Messages Cont'd



Editing Calling Directory

The calling directory is your personal number directory of addresses. Changes can be made by means of the **Edit Calling Directory** entry. When sending a message, the destination number is easily selected from this directory.

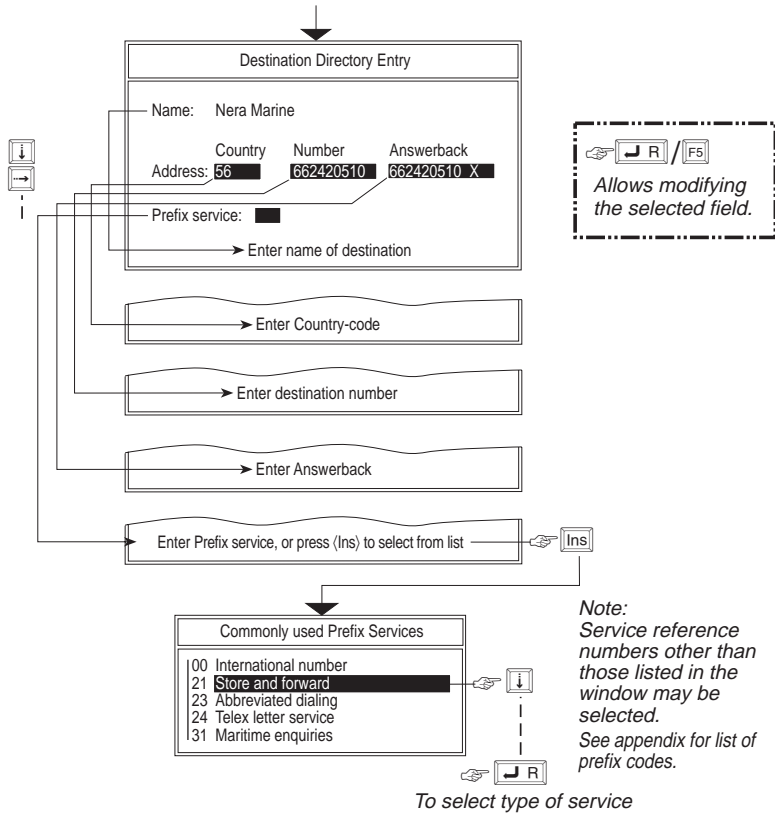


Editing Calling Directory

Edit Calling Directory Cont'd

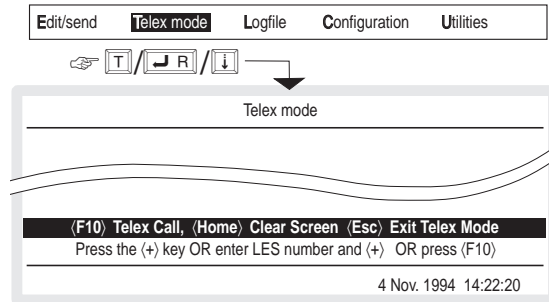
Edit Calling Directory Cont'd

Edit Calling Directory Cont'd




General

In telex mode the Saturn B pc behaves almost like an ordinary telex machine. When entering the Telex mode the program is ready to make a call:






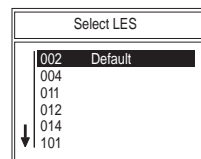
Making a Telex Call

A telex call goes through the following stages before a connection with another telex subscriber is established:

1. You send a telex call request to an LES (Land Earth Station)
2. LES responds and asks WRU (Who aRe yoU)
3. Saturn B responds with answerback
4. LES sends "GA+" (Go Ahead)
5. You enter the telex number ended with 
6. LES calls the telex number and connects you with the other side
7. The other side sends it's own answerback; and the connection is established.

Use one of the following three approaches:

- **Call through default LES, starting with the -key**
The telex call request is sent to the default LES selected from the handset, see **"Selecting Default LES"** in the *Saturn B Operator's Manual*.
- **Call through selected LES, starting with the -key**
Allows sending the telex to an LES selected from a list of the ones currently available: move up or down using the arrow keys and press  to select.



Telex Mode Cont'd

- **Starting a call with an LES number**

Provided the LES exists and is currently available, entering an LES number prior to **[+]** sends a telex call request to that LES.

The requested LES will respond with an identification "banner" and the WRU sign.

Saturn B responds with answerback.

```
Telex Mode
+
Default LES selected
4+
----- OUTGOING DUPLEX TELEX -----
- 1996 Jan. 5 10:06 UTC PRIORITY: 0 LES: 004 -

96-01-05 08:00 EIK 004 AORE*
325799919 NERA X
GA+
005671721+
71721 UMEB N

THIS IS A TEST

325799919 NERA X*
71721 UMEB N

(F2) Letter Shift, (F3) Figure Shift, (F4) WRU, (F5) HERE IS, (F6) Bell
(F9) Clear Call, (Ins) Send File, (Home) Clear Screen
CALL CONFIRM. Awaiting response from LES
-Duplex Call Out
1996 Jan. 5 10:11:36
```

The rest of the call setup is the same for all three approaches:

Dialing the telex number

When LES responds with "GA+" (Go Ahead), enter the telex number of the subscriber, see "[Appendix – Telex Country Codes](#)".

The connection is established when you receive the called telex subscriber's answerback.

Note! Most LESs have a rather short number dial timeout, so do not be too slow when entering the number.

When a connection is established

Just as with an ordinary telex machine, you communicate interactively with the other telex operator.

Sending a prepared telex message file

Ordinary telex machines use paper tape to send a prepared message and to save incoming messages.

The PC telex program uses files on disk for the same purpose.

To prepare a telex message file, see "[Text Editing](#)".

When a connection to another telex machine has been established in

telex mode, you may select and send a prepared message file:

- Pressing **[Ins]** displays the list of message files
- Pressing **[F9]** sends the displayed message.

The letters "CI" transmitted before and after the message means "Communication Impossible", prompting the other side not to send anything until the next "CI" is received.

Before and after a message file transfer, you may communicate with the other side using the keyboard. You may also send more than one message file within a call, but you can only select and send one at a time.

Clearing a call

When a call is cleared, the connection is closed and the entire telex session is automatically saved to a file. *You can clear a call in several ways:*

- Clearing with **[F9]**-key
- Clearing with five period marks (.....) **[.] [.] [.] [.] [.]**, which is a request on call duration and clear. LES responds with call duration in seconds and then clears the call.
- Clearing with five commas (,,,,,) **[,] [,] [,] [,] [,]**, which is a request to LES to provide call duration, call clear and then start a new call. LES responds with call duration in seconds and clears the call. In addition, LES will initiate a new call (you do not have to send an LES request, like 123+ as described in "Making a telex call" above).

When accessing a store and forward telex, you can also clear the call with:

- four Ns **[N] [N] [N] [N]**, signifying end of message (EOM), or
- four plus signs **[+] [+] [+] [+]**, signifying end of transmission (EOT).

Exit from Telex mode

When no call is in progress, pressing **[Esc]** exits the Telex mode.

Message saving and logging

Telex calls are automatically saved in separate files on disk. Transmit (TX) and receive (RX) logs of the telex traffic are also maintained.

See "**Logfiles**" later in this chapter.

Message printing

Telex sessions may also be printed. You may connect a printer to the PC and/or to the MCU (Main Control Unit). Printing can be done "online" as an ordinary telex printout, or later using the printout option in the editor.

See "**Message Routing**" in chapter 3. Configuration for printer setup, and "**Text Editing**" in this chapter for alternative printout.

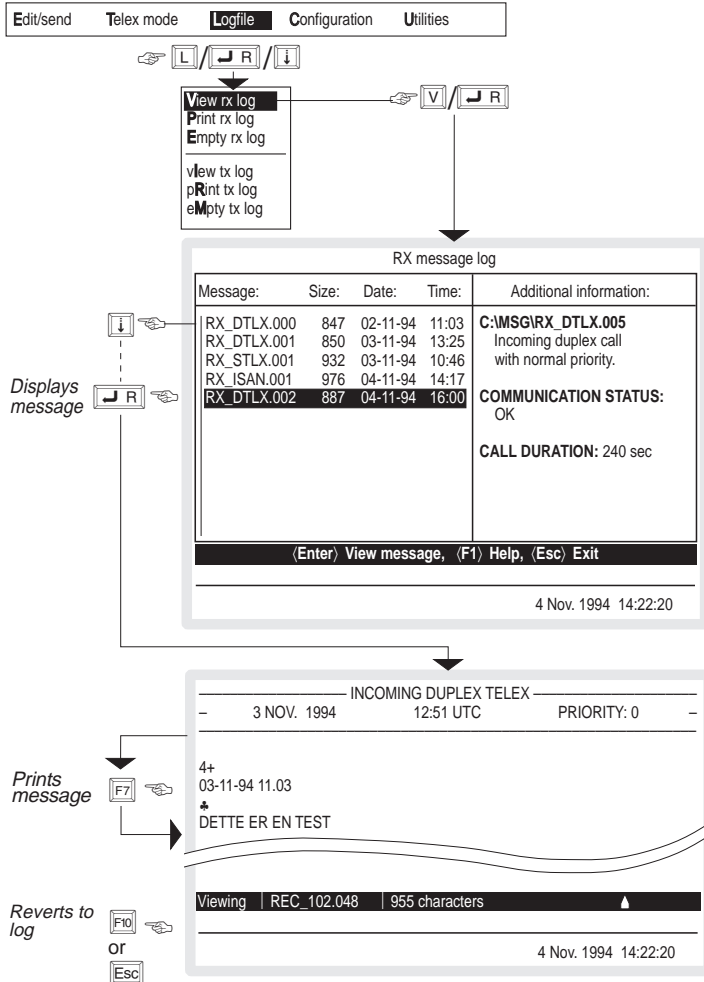
Logfiles

View RX Log

The Receive Message Log registers all received messages and message information such as filename, priority, communication status and call duration. The messages are automatically given sequentially numbered file names:

- RX_DTLX** = received duplex telex
- RX_STLX** = received simplex telex
- RX_ISAN** = Inmarsat Service Announcement

Selecting and viewing receive files is as shown below.



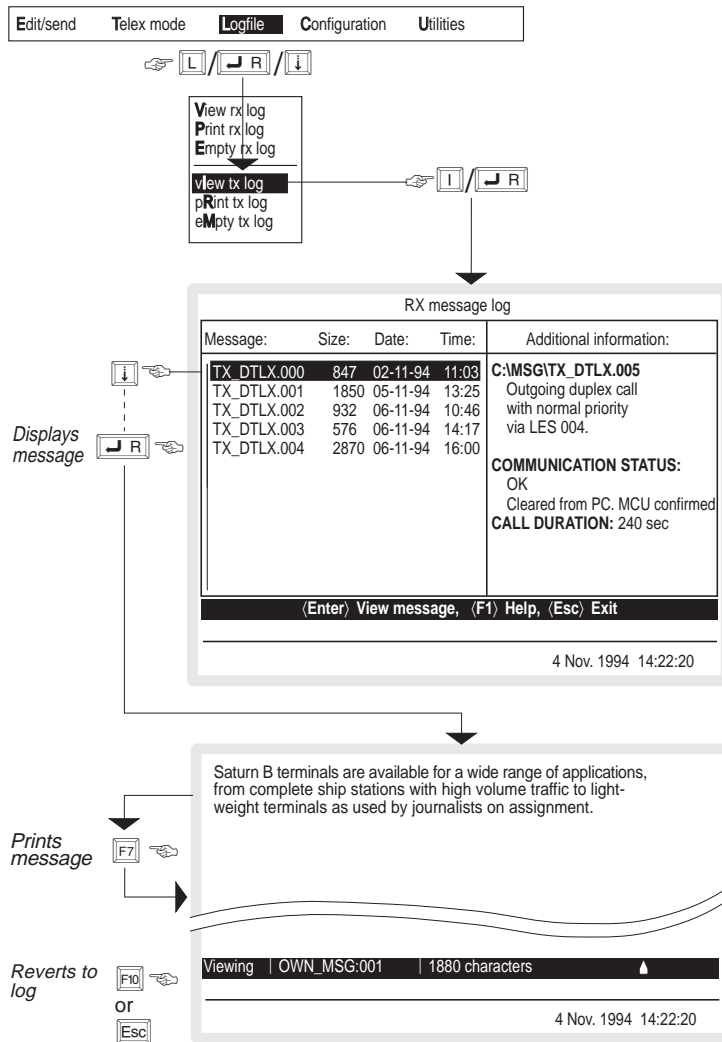
View TX Log

The Transmit Message Log registers all transmitted messages and message information such as filename, priority, communication status and duration.

The messages are automatically given sequentially numbered file names:

TX_DTLX = transmitted duplex telex

Selecting and viewing transmit files is as shown below.



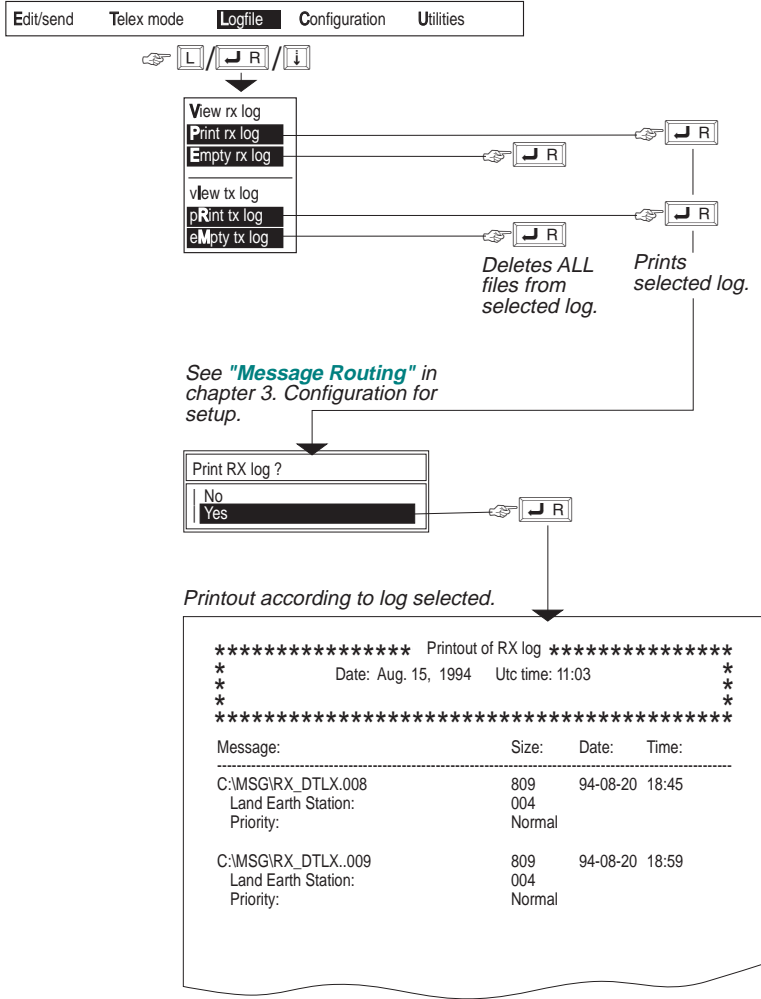
Logfiles Cont'd

Logfiles Cont'd

Print and Empty Logs

Printing and removing files from the logs is done as shown below. Be aware that the **empty log** command deletes **all log files** (the actual file can be deleted when selecting a message from **"Edit an existing message"** or **"Send message"**, or with the **"File & disk utilities"**).

Logfiles Cont'd



Preparing a Message Diskette (on GMDSS versions only)

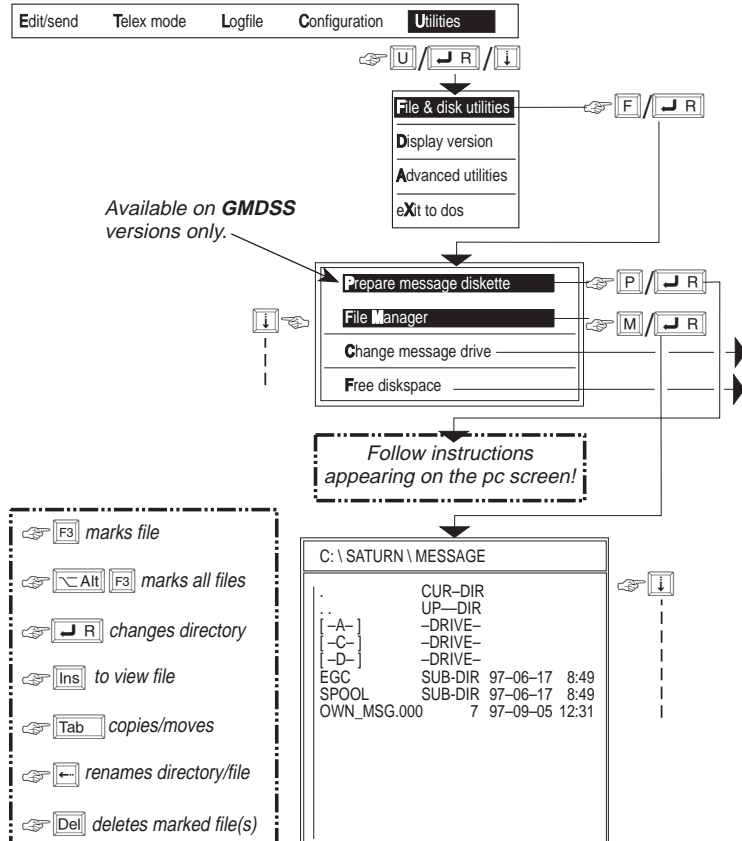
Use the **"Prepare message diskette"** function to prepare a new telex storage diskette. Three options are offered:

- 1: Format (erase) an extra diskette and copy essential files from an old message diskette.
- 2: Format (erase) only, used to generate the **first** or extra message **diskette**.
- 3: Copy files from the message diskette to an already formatted one.

Note! Diskette preparation is also offered as an option prior to starting the Saturn B Telex Terminal Program. Be aware that Saturn B is unable to respond to incoming telex messages during diskette preparation. See below.

File Manager

The **File Manager** function permits viewing and deleting files from the message directory. *See below.*



Changing Drive

The disk drive used for storing messages may be selected as *shown below*.

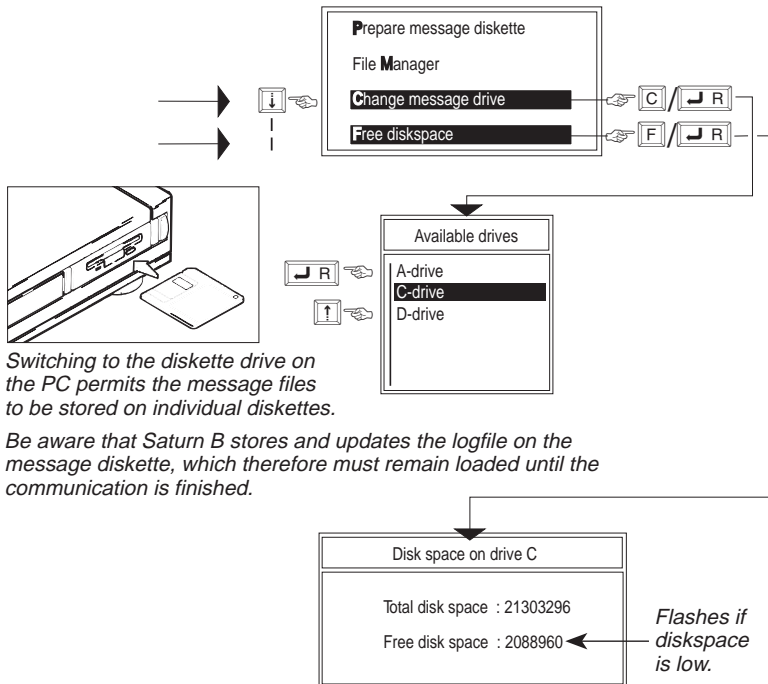
When changing drive the Saturn B program automatically creates a message directory on the selected disk drive or diskette, e.g. C:\MESSAGE.

Saturn B then stores all the received messages as well as the logfile on the selected disk(ette). The logfile must be allowed to be updated before switching to another drive.

Note! GMDSS versions use diskette as default medium for messages, log and configuration files. See also "Prepare message diskette" on the previous page.

Checking Diskspace

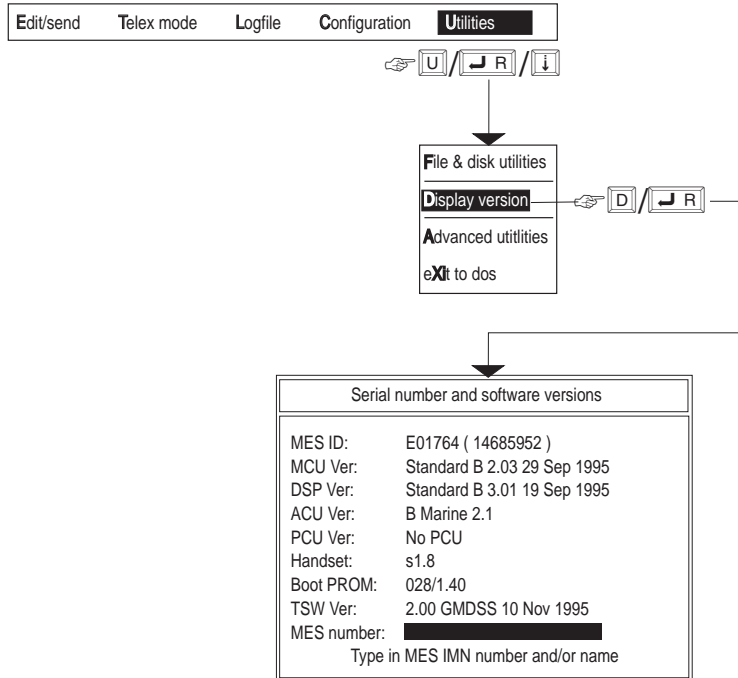
The free space available on the selected disk drive may be checked as outlined. See below.



General

The "Display version" command shows the version and type of Saturn B telex terminal software.

The function allows the IMN number to be stored in the program.



Note!

The **GMDSS Version** differs from the **Standard Version** on the following software features:

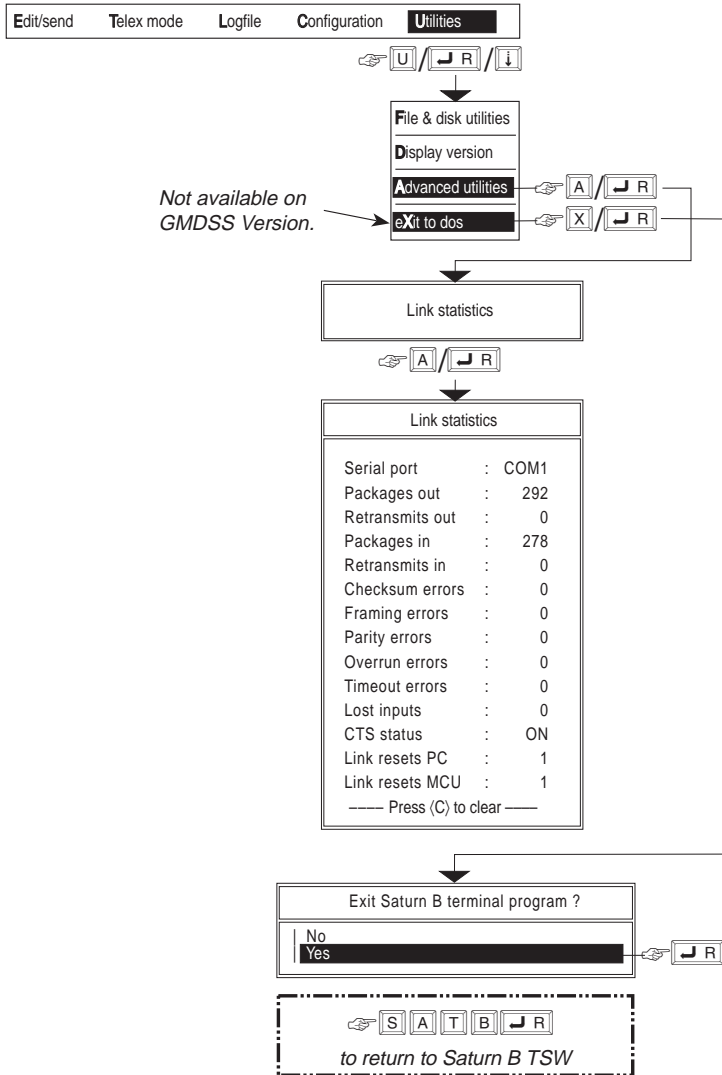
- Messages, logs, calling directory and configurations are stored on diskette.
- The user is not allowed to disable both the MCU-connected and PC-connected printer.
- The **"Exit to DOS"** function is not included.

Advanced Utilities and Exit to DOS

General

The **"Link Statistics"** function displays the results of events taking place during the transmission between Saturn B and the LES.

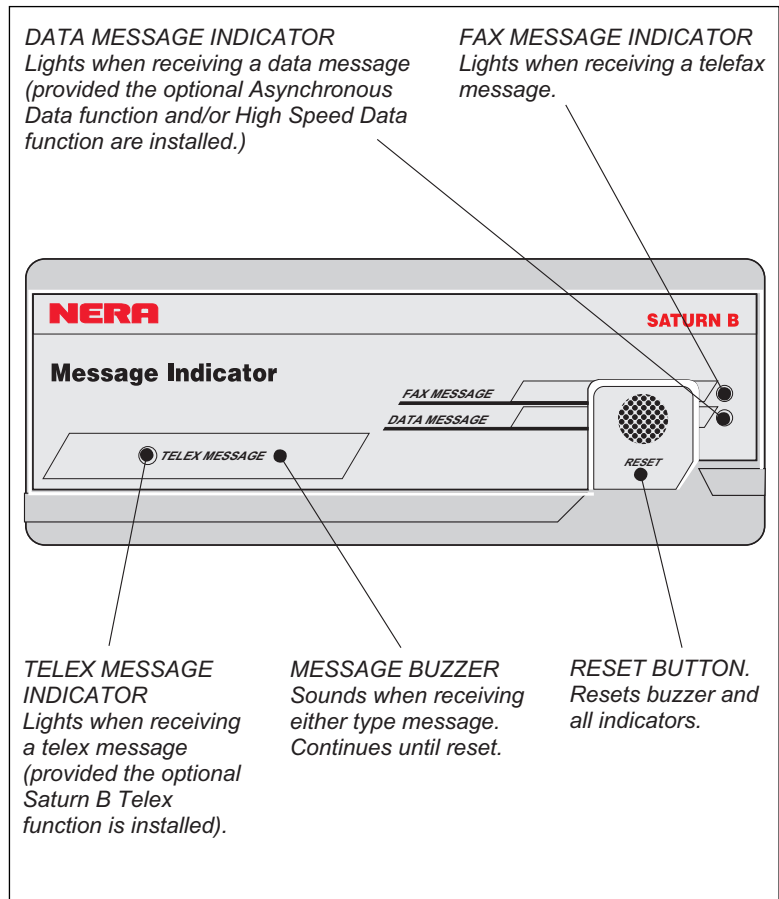
The **"Exit to DOS"** function turns off the telex software (Not available on GMDSS Version).



Advanced Utilities
and Exit to DOS

Message Indicator

The Message Indicator is activated on reception of telex, telefax and data calls. See *description below*.



Message Indicator

For setting of response on the Message Indicator, see "**Various Configurations**" in chapter 3. Configuration.

Distress Alarm (Saturn Bm Marine only)

The Distress Alarm provides activation and indication of an alert transmission and reception.

Distress Alarm

RED INDICATOR.
Flashes when activating a distress alert; slowly for 6 seconds – then quickly.

GREEN INDICATOR.
Lights when the Alarm is set in test mode.
See "**Distress Test**" in Saturn Bm Operator's Manual, chapter 3. Configuration.

All indicators will light if the Distress Alarm has not been configured correctly.
See "**Telex Configuration**" in chapter 3. Configuration.)



ACKNOWLEDGE BUTTON.
When pressed, cancels sound in the Alarm Buzzer.

RED ALARM INDICATOR and ALARM BUZZER.
Flashing light and buzzer on all Distress Alarms indicate distress alert from shore.

When pressing the Acknowledge Push Button on the called Distress alarm, the red indicator lights steadily and the buzzer stops. The indicator goes off when terminating the call.

The distress message is displayed on the Telex PC and printed out on the printer.

For incoming telephone distress alert, see "Saturn Bm, Operator's Manual".

DISTRESS BUTTON.
Accessible when lifting the flap.
Must be pressed and held down for at least 6 seconds to activate an alarm.

(Allows checking the alert function when set in test mode.)

The Distress Alarm automatically reverts to normal mode after 30 seconds.

See "**Distress Test**" in Saturn Bm Operator's Manual, chapter 3. Configuration.)

PC

Message Polling 3.1

Setting Date and Time & Screen Saver 3.2

Message Routing 3.3

HANDSET

About Password Protection 3.4

Renter/Owner Level 3.5

Password 3.7

Activating the Telex Function 3.9

Telex Configuration 3.10

Various Configurations 3.11

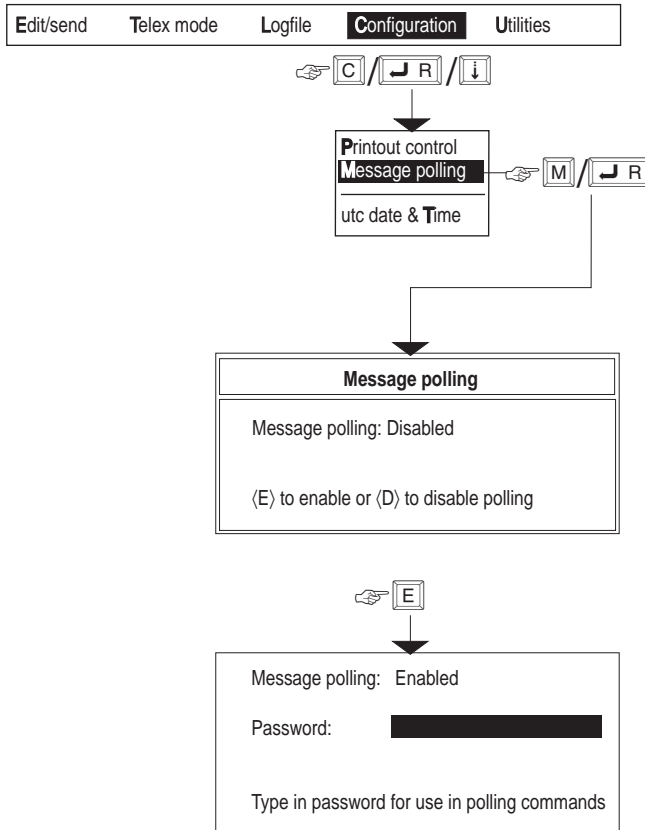
Configuring Telex Port 3.12

Telex Routing 3.13

CONFIGURATION

General

The Message Polling function controls the mobile's response to incoming polling commands.

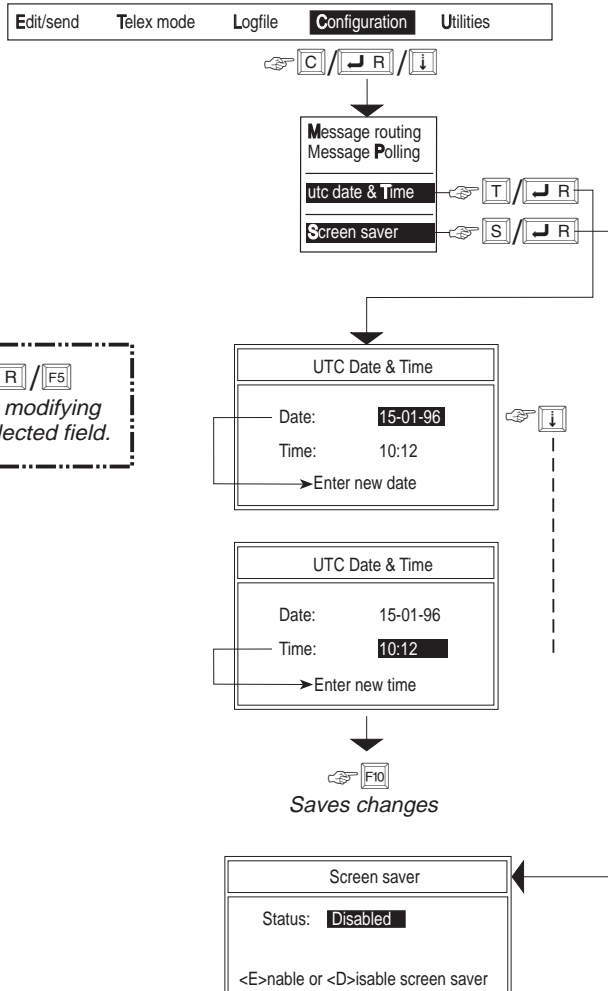


Message Polling

General

The date and time set with this command sets the PC date and time. The PC default setting, however, determines the format of date presentation.

When the backlight is off with the screen saver enabled, pressing any key turns the display backlight on.



Setting Date and Time & Screen Saver

General

Messages may be printed both on a printer connected to the MCU and/or to the PC. Manual printing can be routed to either printer. Automatic printing is controlled by selecting the specific message types to be printed out on both or either printer.

Selection of printing parameters for an MCU-connected printer is shown below. Implementing a PC printer is done in the same way (The parameters only appears when the printer is connected, i.e. MCU printer: Connected, or PC printer: LPT1).

Note!
When GMDSS approved, only one of the printer outputs can be disabled:

Printout control

MCU printer: Connected PC printer: None
 MCU message end: Extra lines PC message end: New page
 MCU left margin: PC left margin:
 Manual printing: MCU printer

Automatic printing/Disk storage

Message type:	MCU-printer:	PC-printer:	Disk-storage:	Delete after:
Service announcement:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> 60 days
Received simplex:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> 1 week
Received duplex:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> 2 weeks
Sent messages:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> Never

Use arrow keys to move to a field then (Enter) for field menu

To connect/disconnect the MCU printer:

MCU printer options
 Disconnected
 Connected

To formfeed (new page), or add 5 line feeds (extra lines):

MCU message end options
 New page
 Extra lines

Key in left margin: 1-5

Manual printing options
 Disabled
 MCU printer
 PC printer

Routing of manual printouts:

Delete service announcements after
 Never
 1 week
 2 weeks
 30 days
 60 days
 90 days

Service announcements to MCU printer

No
 Yes

Service announcements to PC printer

No
 Yes

Simplex RX messages to MCU printer

No
 Yes

Received messages to MCU printer

No
 Yes

Sent messages to MCU printer

No
 Yes

To move between fields

Allows modifying the selected field

NB! *Saves changes*

Exits without saving changes

Printout Control

General

Two password protected user levels are provided in addition to USER and OPERATOR level:

- **RENTER**, and
- **OWNER**

A common default password (1 2 3 4 5 6) facilitates the activation of Enhanced Functions for new users (see "**Password**").

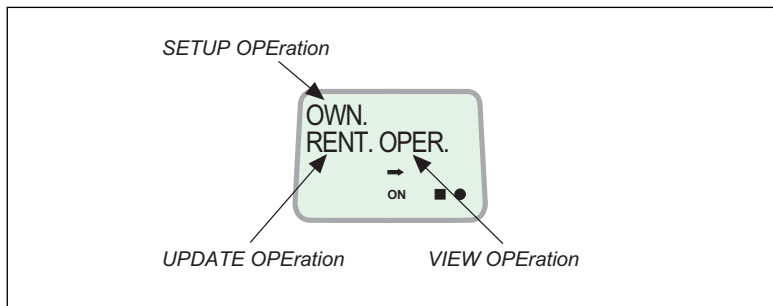
Warning! An individual OWNER password must be entered to protect the equipment against unauthorized use. The password must be stored in a secure place.

Up to three different **operation rights** can be assigned with selectable access level to each Enhanced Function:

- **SETUP OPERATION** – allows such as selection of ports.
Default access level: OWNER.
- **UPDATE OPERATION** – such as entering/deletion of data.
Default access level: OWNER.
- **VIEW OPERATION** – such as display readout and printout.
Default access level: OPERATOR

When activating a function, the access level required to operate each right can be seen in the display when pressing MORE/HELP.

See example below.



Setup operations can be accessed from RENTER or OWNER level only.

General

The Saturn B terminals provide the following access levels in addition to USER (1) level and OPERATOR (2) level:

- **RENTER (3)**, and
- **OWNER (4)**

The RENTER and OWNER levels are protected by passwords.

The default password for both levels is **1 2 3 4 5 6**.

Password protection can be used to restrict operative functions to different parameter levels, e.g.:

- level 4 (OWNER) allowed to change setup.
- level 3 (RENTER) allowed to read data.
- level 2 (OPERATOR) given no access to reading or setup.
- level 1 (USER) has standard minimum operational functions.

These restrictions can be applied according to function, e.g.:

The RENTER level can be allowed to configure the traffic log, but restricted to reading only in the access code function.

An individual password may be assigned to each level using the "SET PASSWORD" function no.13, see "Password".

To Set Access Level:

1 Select **SET USER LEVEL** function (12):



2 Display the current level:



3 Key in operator level ref. number, e.g. 3 (RENTER):
3=RENTER, 4=OWNER



4 Key in the current password for this level (the default password is **1 2 3 4 5 6**):



5 The terminal is now set to **RENTER LEVEL:**

*This level is active until a new level is set or the terminal is switched off. Therefore, set the level back to **USER** when finished with your operations.*



and revert to IDLE:



Optional Functions

When purchasing one or a set of Optional Enhanced Functions, an "Opening Key" will be provided that cause the function(s) to be installed. Proceed as under "**To Set Access Level**":

- 1** Select **SET USER LEVEL** function (12)
- 2** Display current level
- 3** At the "LEVEL" prompt, key in **5 9 6**.
- 4** At the "PASSWORD" prompt, key in the "Opening Key" provided by the agent.
The function(s) are now installed.
- 5** Activate the function using the **ENHANCED SETUP** function (89) described later in this manual.

General

The RENTER and OWNER levels are protected by passwords. The default password for both user levels is **1 2 3 4 5 6**.

The password may be changed individually to any password containing at least 4 digits. The owner may change password for both OWNER level and RENTER level, whilst the renter only may change password for the renter level.

Setting Passwords from OWNER level

1 Select **SET PASSWORD** function (13):

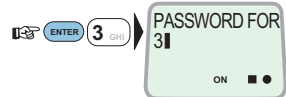


2 Display current level (OWNER):

Note! Pressing MORE/HELP reveals a restore code that allows the renter to reset the password to default: 1 2 3 4 5 6. See "[Regaining Default Password](#)" on next page.



3 Select required level, e.g. 3:
3=RENTER, 4=OWNER



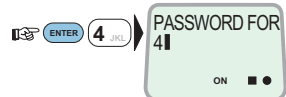
4 Key in new **RENTER** password, e.g. 1 2 3 4 :
Minimum 4 digits



5 Verify **RENTER** password:



6 Select required level, e.g. 3:
3=RENTER, 4=OWNER



7 Key in new **OWNER** password, e.g. 1 2 3 4 5:



8 Verify the **OWNER** password:



and revert to IDLE:



Setting Password from RENTER Level

The procedure below assumes that the Saturn terminal is set in RENTER access level, see "[Renter/Owner Level](#)".

1 Select **SET PASSWORD** function (13):



2 Current level:



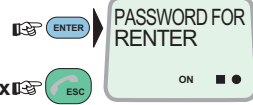
3 Key in new RENTER password, e.g. 1 2 3 4 :



4 Verify RENTER password:



The verified password is correct:



Revert to IDLE:



Password Cont'd

Regaining Default RENTER Password

If accidentally losing the password, it can be reset to the default password 1 2 3 4 5 6.

Proceed as under "[Renter/Owner Level: To Set Access Level](#)".

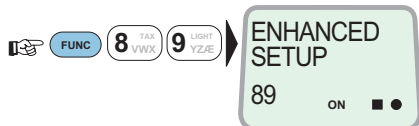
- 1** Select **SET USER LEVEL** function (12).
- 2** Display current level.
- 3** At the "LEVEL" prompt, key in **9 9 9**.
- 4** At the "PASSWORD" prompt, key in the restore code provided by the agent.
- 5** The RENTER password is now reset to default password **1 2 3 4 5 6**.

Regaining Default OWNER Password

The OWNER password is reset to default value as described above, except that the restore code must be provided by the manufacturer.

Procedure:

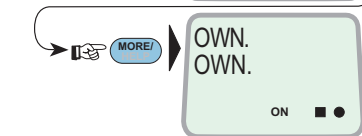
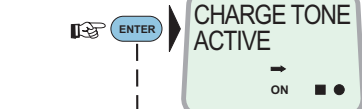
1 Select **ENHANCED SETUP** function (89):



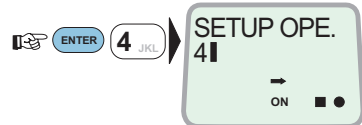
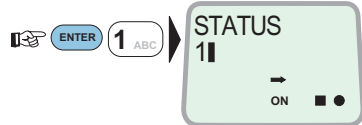
Telex is currently not active:

*(The example indicates that SETUP and UPDATE operations require OWNER level):
If PASSWORD PROTECTED, refer to "Renter/Owner Level".*

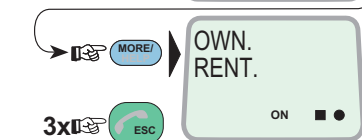
2 Activate the Telex option:
0=passive, 1=active



3 Assign operation access levels, e.g.:
2=operator (OPER)
3=renter (RENT)
4=owner (OWN)



4 Verify settings:



and revert to IDLE:



Activating the Telex Function

Simplex Messages and Answerback

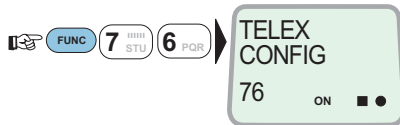
The function no.76 allows the following settings:

- Routing of incoming simplex broadcast messages and safety warnings.
- Entering of the mobile's answerback.

The user level must be set to **OWNER**: see "[Renter/Owner Level](#)".

Procedure:

1 Select **TELEX CONFIG** function (76):



2 Check current setting:



No answerback has been entered:



3 Route incoming simplex messages, e.g. to PC:

0 = no, 1=to PC port, 2=to printer, 3 = to DTE port



4 Key in telex IMN:



5 Key in ship's name:

An "X" that is automatically added to the answerback signifies a mobile terminal



Revert to IDLE:



General

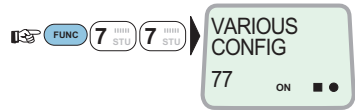
The "**Various Config**" function (77) is used to select the following default settings:

- Routing of Service Announcements from LES/NCS.
- Response on the Message Indicator.

For other settings under function 77, see chapter 3. Configuration in the Operator's Manual of the Saturn B terminal.

Setting

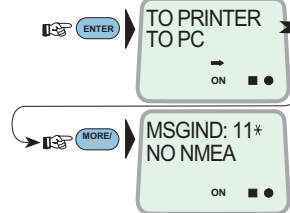
1 Select **VARIOUS CONFIG** function (77):



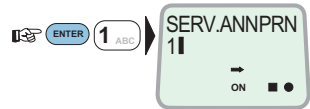
2 Check current settings:

The example shows as follows:

- printouts routed to **PRINTER**.
- **service announcements** routed to **PC**.
- **Message Indicator** responds to telefax and telex.
- manual course input, NMEA-183 off.



3 Select routing of Services Announcements, e.g. to PC: 0=no output, 1=to PC port. 2=to printer, 3=to DTE port.



4 Set Message Indicator response: F=telefax, T=telex, D=data (1=indication, * =no indication) (SW version no. 2.03 and above only)



and revert to IDLE:



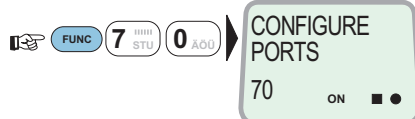
Various Configurations

General

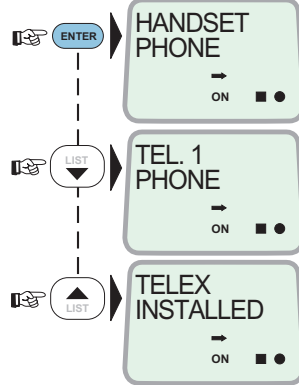
To enable telex operation, the Originating Id provided by Inmarsat for telex must be keyed in (if not already entered). See below.

Procedure:

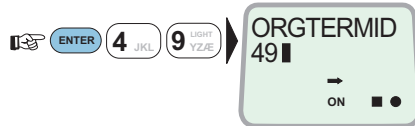
1 Select **CONFIGURE PORTS** function (70):



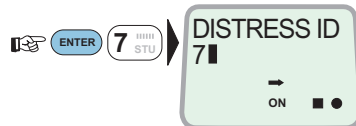
2 ENTER the list of connectors, and scroll down to **TELEX**:



3 Key in the **Originating Id** provided by Inmarsat, e.g. 49:
Valid value is 0 . . 99



4 Select Distress Alarm address:
Valid value: 0 . . 7 = the address programmed in the Distress Alarm installed close to the telex PC. See Installation Manual. Keying in 7 disables the Distress Alarm.



5 Verify settings:



and revert to IDLE:



Note! Refer to the Saturn terminal's Operator's Manual for further information on Configuring Ports.

General

Received telex calls must be routed properly by entering the Destination Id provided by Inmarsat. See below.

Procedure:

1 Select **INCOMING CALL ROUTE** function (71):



2 ENTER list of Destination Ids:



3 Scroll down to the telex DI, and if not already entered, key in the telex DI, e.g. 49:



3 Define telex service:

1=telephone (TPH), 2=telex (FAX)
4=telex (TLX), 5=high speed data (HSD)



4 Check entries:



and revert to IDLE:



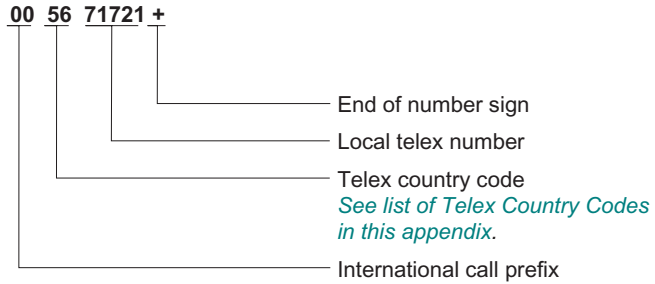
Telex Routing

Note! Refer to the Saturn terminal's Operator's Manual for further information.

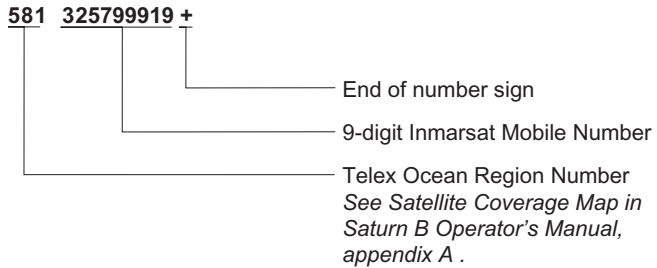
Appendix – Telex Country Codes

Explanation with examples:

Mobile - to - fixed subscriber, telex call:



Mobile - to - mobile, telex call:



Appendix – Telex Country Codes Cont'd

Telex network identification code

Afghanistan (Islamic State of)	79	AF	Colombia (Republic of)	35	CO
Alaska (United States of America)	200	UA	Comoros (Islamic Federal Republic of the)	994	KO
Albania (Republic of)	604	AB	Congo (Republic of)	981	KG
Algeria (People's Democratic Republic of)	408	DZ	Cook Islands	772	RG
American Samoa	770		Costa Rica	376	CR
Angola (Republic of)	991	AN	Croatia (Republic of)	599	
Anguilla	391	LA	Cuba	28	CU
Antigua & Barbuda	393	AK	Cyprus (Republic of)	605	CY
Argentine Republic	33	AR	Czech Republic (TNIC C)	66	Ca)
Armenia (Republic of)	684				
Aruba	303		Democratic People's Republic of Korea	899	
Ascension Is	939	AV	Denmark	55	DK
Atlantic Ocean East Reg. (AOR-E) (Inmarsat)	581		Diego Garcia	938	DG
Atlantic Ocean West Reg. (AOR-W) (Inmarsat) ..	584		Djibouti (Republic of)	979	DS
AT&T EasyLink Services Network (DTS) ...	235		Dominica (Commonwealth of)	394	DO
Australia	71	AA	Dominican Republic (AACR)	202	DI
Australia External Territories	766	c)	Dominican Republic (MIRADOR)	241	
Austria	47	A	Dominican Republic (CDT)	201	DR
Azerbaijani Republic	784				
			Ecuador	308	ED
Bahamas (Commonwealth of the)	297	BS	Egypt (Arabic Republic of)	91	UN
Bahrain (State of)	490	BN	El Salvador (Republic of)	373	SR
Bangladesh (People's Republic of)	780	BJ	Equatorial Guinea (Republic of)	999	EG
Barbados	392	WB	Ethiopia	980	ET
Belgium	46	B			
Belize	371	BZ	Falkland Islands (Malvinas)	306	FK
Benin (Republic of)	972	BC	Faroe Islands (Denmark)	502	FA
Bermuda	290	BA	Fiji (Republic of)	701	FJ
Bhutan (Kingdom of)	890	BT	Finland	57	SF
Bolivia (Republic of)(ENTEL)	309	BV	France (TNIC F)	42	Fa)
Bosnia and Herzegovina (Republic of)	600		French Polynesia (French Overseas Territory) .	702	FP
Botswana (Republic of)	962	BD			
Brazil (Federative Republic of)	38	BR	Gabonese Republic	973	GO
British Virgin Islands	292		Gambia (Republic of the)	996	GV
Brunei Darussalam	809	BU	Georgia (Republic of)	683	DO
Bulgaria (Republic of)	67	BG	Germany (Federal Republic of)	41	D
Burkina Faso	978	UV	Ghana	94	GH
Burundi (Republic of)	903	UU	Gibraltar	405	GK
			Greece	601	GR
Cambodia	807		Greenland (Denmark)	503	GD
Cameroon (Republic of)	970	KN	Grenada	395	GA
Canada	21		Guadeloupe (French Department of) ..	299	GL
Canada (TWX)	26	CA	Guam (United States of America)(MCI/WUI) ..	700	GM
Cape Verde (Republic of)	993	CV	Guatemala (Republic of)	372	GU
Cayman Islands	293	CP	Guiana (French Department of)	300	
Central African Republic	971	RC	Guinea (Republic of)	995	GE
Central America	37		Guinea-Bissau (Republic of)	969	BI
Chad (Republic of)	976	KD	Guyana	295	GY
Chile	34				
Chile (TELEX CHILE)	342		Haiti (Republic of)	203	HI
Chile (VTR)	343		Hawaii (DATATEL)	773	
Chile (VTR/CM)	344		Hawaii (USA)(MCI/WUI)	704	HR
Chile (ENTEL)	345		Hawaii (USA)(MCI/WUI)	705	HM
Chile (TEXCOM)	346		Hawaii (USA)(MCI/WUI)	708	HW
China (People's Republic of)	85	CNb)	Hawaii (USA)(WUH)	709	

Appendix – Telex Country Codes Cont'd

Honduras (Republic of)	374	HO	Morocco (Kingdom of)	407	M
Hong Kong	802	HX	Mozambique (People's Republic of) ...	992	MO
Hungary (Republic of)	61	H	Myanmar (Union of)	83	
Iceland	501	IS			
India (Republic of)	81	IN	Namibia	908	WK
Indian Ocean Region (IOR)(Inmarsat)	583		Nauru (Republic of)	775	ZV
Indonesia (Republic of)	73		Nepal	891	NP
Iran (Islamic Republic of)	88	IR	Netherlands (Kingdom of the)	44	NL
Iraq (Republic of)	491	IK	Netherlands Antilles	390	NA
Ireland	500	EI	New Caledonia (French Overseas Territory)	706	NM
Israel (State of)	606	IL	New Zealand	74	NZ
Italy	43	I	Nicaragua	375	NU
Ivory Coast (Republic of)	983		Niger (Republic of the)	975	NI
			Nigeria (Federal Republic of)	905	NG
Jamaica	291	JA	Niue	776	NF
Japan	72	J	Norway	56	N
Jordan (Hashemite Kingdom of)	493	JO			
			Oman (Sultanate of)	498	ON
Kenya (Republic of)	987	KE			
Kiribati (Republic of)	761	KI	Pacific Ocean Reg. (POR)(Inmarsat) ..	582	
Korea (Republic of)	801	K	Pakistan (Islamic Republic of)	82	PK
Kuwait (State of)	496	KT	Palau (Republic of)	763	PW
Kazakhstan (Republic of)	785		Panama (Republic of)(INTEL)	379	PG
Kyrgystan (Republic of)	788		Papua New Guinea	703	NE
			Paraguay (Republic of)	305	PY
Lao People's Democratic Republic	804	LS	Peru	36	PE
Latvia	538		Philippines (Republic of the)(CAPWIRE)	751	
Lebanon	494	LE	Philippines (Republic of the)(ETPI)	756	
Lesotho (Kingdom of)	963	LO	Philippines (Republic of the)(GMCR) ..	754	
Liberia (Republic of)	997	LI	Philippines (Republic of the)(PHILCOM)	752	
Libya (Soc. People's Libyan Arab Jamahiriya)	901	LY	Philippines (Republic of the)(PTT)	758	
Liechtenstein (Principality of)(<i>TNIC FL</i>)	45	FL ^a)	Philippines (Republic of the)(RCPI)	757	
Lithuania (Republic of)	539		Poland (Republic of)	63	PL
Luxembourg	402	LU	Portugal	404	P
			Puerto Rico (AACR)	206	
Macao	808	OM	Puerto Rico (MCI(WUI)	205	PT
Macedonia (former Yugoslav Rep. of)	597		Puerto Rico (PRCA)	209	
Madagascar (Republic of)	986	MG	Puerto Rico (TRT/FTC)	240	(PB)
Malawi	904	MI	Qatar (State of)	497	OH
Malaysia	84	MA			
Maldives (Republic of)	896	MF	Reunion (French Department of)	961	RE
Mali (Republic of)	985	MJ	Romania	65	R
Malta (GTC)	403	MT	Russian Federation (ex-USSR)	64	
Malta (Telemalta)	406	MW	Rwanda Republic	909	RW
Mariana Islands (Commonwealth of the)	760	MN			
Marshall Islands (Republic of the)	765	MS	Saint Helena	960	HL
Martinique (French Department of)	298	MR	Saint Kitts-Nevis	397	KC
Mauritania (Islamic Republic of)	974	MQ	Saint Lucia	398	LC
Mauritius (Republic of)	966	IW	Saint Pierre and Miquelon (French Terr.Coll.)	204	
Mexico	22	ME	Saint Vincent and the Grenadines	399	VQ
Micronesia (Federal State of)	764		Samoa (US)	770	
Moldovia (Republic of)	682		Samoa (Western)	779	SX
Monaco (<i>TNIC MC</i>)	42	MC ^a)	San Marino (Republic of)	505	SO
Mongolia	800	MH	Sao Tome and Principe (Dem.Republic of) ...	967	ST
Montserrat	396	MK	Saudi Arabia (Kingdom of)	495	SI

Appendix – Telex Country Codes Cont'd

Senegal (Republic of)	906	SG	USA	23	
Seychelles (Republic of)	965	SZ	USA	246	
Sierra Leone	998	SE	USA	247	
Singapore (Republic of)	87	RS	USA	248	
Slovak Republic (TNIC SK)	66	a)	USA (AT&T)	230	
Slovenia (Republic of)	598		USA (AT&T)	234	
Solomon Islands	778	HQ	USA (AT8T)	25	UQ
Somalia Democratic Republic	900	SM	USA (CCI)	237	
South Africa (Republic of)	95	SAe)	USA (GRAPHNET)	233	
Spain	52	E	USA (MCI/WUI)	232	
Sri Lanka (Democratic Socialist Republic of) ..	803	CE	USA (MCI/WUI)	236	
Sudan (Republic of)	984	SD	USA (TRT/FTC)	231	
Suriname (Republic of)	304	SN	USA (TRT/FTC)	238	
Swaziland (Kingdom of)	964	WD	USA (MMR) (TNIC UJ)	239	
Sweden	54	S	USA (TELENET) (TNIC UE)	239	
Switzerland	45	CHa)	United States Virgin Islands		
Syrian Arab Republic	492	SY	(S. Croix and S. Thomas)	208	
			Uruguay (Eastern Republic of)	32	UY
			Uzbekistan (Republic of)	786	
Tajikistan (Republic of)	787				
Tanzania (United Republic of)(mainland) ..	989	TZ			
Thailand	86	TH	Vanuatu (Republic of)	771	NH
Togolese Republic	977	TO	Vatican City State	504	VA
Tokelau	762	(TL)	Venezuela (Republic of)	31	VC
Tonga (Kingdom of)	777	TS	Viet Nam (Socialist Republic of)	805	VT
Trinidad and Tobago	294	WG			
Tunisia	409	TN	Wallis and Futuna Islands		
Turkey	607	TR	(French Overseas Territory)	707	WF
Turkemenistan	789		Western Samoa (Independent State of)	779	
Turks and Caicos Islands	296	TQ			
Tuavula	774	TV	Yemen (Rep. of) TELEYEMEN (northern part) ...	895	YE
			Yemen (Rep. of) YEMENTEL (southern part)	806	AD
Uganda (Republic of)	988	UG	Yugoslavia (Federal Republic of)	62	YU
Ukraine	680				
United Arab Emirates (EMIRTAL)	893	EM	Zaire (Republic of)	982	ZR
United Kingdom of Great Britain			Zambia (Republic of)	902	ZA
and Northern Ireland	51	G	Zanzibar (Tanzania)	990	TA
			Zimbabwe (Republic of)	907	ZW

Notes

- a): Integrated numbering area.
- b): Within this national code, the Telecommunications Administration of the People's Republic of China has notified that the code 855 has been allocated to the province of Taiwan.
- c): The Australian Administration has also informed that as part of code 766 the telex code for:
 - Norfolk Island is 766 3 (NV)
 - Cocos-Keeling Islands is 766 6 (KL)
 - Christmas Island is 766 7 (10)
- d): The remaining combinations in the series 78 will not be allocated until the stock of spare 3-digit codes for the region is exhausted.
- e): As requested by South Africa, the Telex Network Identification Codes (TNICs) have been allocated to the following geographical areas:
 - BP Bophuthatswana
 - CX Ciskei
 - TT Transkei
 - VM Venda

Appendix – Non-delivery Codes

ABS - Absent subscriber	MCF - Message channel failure
ACB - Access barred	MKO - Message killed by operator
ADR - Addressee refuses to accept msg	MSO - Machine switched off
ANU - Deleted (One hour exceeded)	
ATD - Attempting to deliver the message	NA - Access barred
	NAL - No address line is present
BK - Message aborted	NC - No circuits
BMC - No end of message or end of transmission received	NCH - Subscriber's number has been changed
BUS - Busy	NDA - There was no delivery attempted
	NFA - No final answerback
CCD - Call cut or disconnected	NIA - No initial answerback
CI - Conversation impossible	NOB - Not obtainable
CIE - LES out of resources to process message	NOC - No connection
CNS - Call not started	NP - No party
	NTC - Network congestion
DTE - Remote DTE clearing	OAB - Operator aborted
	OCC - Number busy
ERR - Error	OOO - Out of order
FAU - Faulty	PAD - Packet assembler/dissassembler
FMT - Format error	PRC - Premature clearing
FSA - Fast select acceptance not subscribed	PRF - Protocol failure
IAB - Invalid answerback	RCA - Reverse charging acceptance not subscribed
IAM - Invalid address	REF - Failure in the remote equipment
IDS - Invalid data from ship	RLE - Resource limit exceeded
IDT - Input data timeout	RPE - Remote procedure error
IFR - Invalid facility request	RPO - RPOA out of order
IMA - Input message acknowledgement	
IMS - Message size is invalid	SHE - MES hardware error
IND - Incompatible destination	SNF - Satellite network failed
INH - Invalid message header	SPE - MES protocol error
INV - Invalid call	SUC - Test results being delivered
ISR - Invalid ship request	
	TBY - Trunks busy
LDE - Maximum message length exceeded	TGR - TDM group reset
LEF - Local Equipment Failure	TIM - Timeout
LPE - Local Procedure Error	TMD - To many destinations
MBB - Message broken by higher priority	UNK - Unknown. Used when no other failure codes are suitable
MCC - Message channel congestion	WFA - Wrong final answerback
	WIA - Wrong initial answerback

Appendix – Prefix Codes

Abbreviated dialing	23	Navigational hazards and warnings	42
Automatic telex test	91	Ship position reports	43
Call to commissioning position	92	Store and forward *	21
Call to Inmarsat service centre	95	<i>* Will send the message once to Telex SFU (Store & Forward Unit), instead of sending the message to each destination specified. Will save air time costs. Not all LESs support this service, and it works best with Comsat LESs (their implementation is closest to the standard).</i>	
International call	00	Technical assistance	33
Maritime assistance	39	Telex letter service	24
Maritime enquiries	31	Time and duration	37
Medical advice	32		
Medical assistance	38		
Meteorological reports	41		



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