

EPLF	Telefax
From	EMNETU TESFAY.
Fax no.	4-503632

To	EPLF - TONINO
Fax no.	873-1310242
Date	22-3-88
	Page 1 of 5

Subject:

በዚ፡ተመዛ፡ባ፡ብዓ፡ ዘክ፡ፍ፡ ባዕተ፡ ን፡ብዚ፡ ባዕ፡
 ዘክ፡ ህዝብ፡ ፍ፡ ደገ፡ፍ፡ ብክ፡ፍ፡ ህ፡ፍ፡
 ተፈ፡ፍ፡ ፍ፡ ፍ፡ ዘክ፡፡ CONGRATULATIONS

Content

Page 2 Information from the manufacturers
 of Saturn T. ንዚ፡ ህ፡ፍ፡ ዘክ፡ ፍ፡
 ን፡ፍ፡ ፍ፡ ፍ፡ ፍ፡ ፍ፡

Page 3 Message from Lord Eric Avebury to
 the Secretary General.

Page 3-5 Telefax from London to
 Nemaio.



FACSIMILE TRANSMISSION MESSAGE

Transmission No.

Date 22.3.88

Time

No. of pages (including this page): 1

To EAST FRIG PROJECT

Att. ATT EMNETY TESFAYE

From EB NERA OSLO

Subject SATURN T.

Comments/Message:

Recieved information is not sufficient to say what is wrong or what has to be done in order to have the equipment in working condition.

Normally it is sufficient just to reset the micro-processors.

Try the following:

Disconnect power from equipment for a short time (10 - 20 sec.)
This is easily done by pulling out the main plug.

Reconnect power and perform start-up according to instructions on pages 14 and 15 in the operator manual.

Make sure that the antenna is directed towards the satellite and upper (highest) tone can be heard at the same time as highest RX-level is reached.

If equipment still does not work, report back to us the following:

RX level (is it lower than usual ?) Is " general alarm "
" RX-SYNC. Alarm " or " ODE-alarm " displayed ?
Is it still same status alarms ?

Based upon above and answering above question we assume that neccessary spare parts or information can be provided to you, in order to have the equipment operational again.

Best regards,
Helge Kvåvik
Service Department Manager

TONINO

FAX 441-8332139

- Causes of fault on the 2 returned IDE UNITS identified.
 - No. 1 Fuse and telephony receiver
 - No. 2 Fuse
- The Manufacturers strongly believe that there is problem with the power supply.
- Furthermore they are giving advice that the fuses on the ~~the~~ units in Eritrea be thoroughly checked.
- Many spare fuses are packed for shipment together with the new unit
- ስተክሽን: ሪፖርት: ስተክሽን: 4750: operators
31: ስተክሽን: ስተክሽን: fuse ቀይሮ: 31577:
- I suggest that a separate generator should be purchased and allocated for the sole purpose of providing power to the terminal.

EMNETU

URGENT



SATCOM DIVISION
MARINE DEPARTMENT

'88.12.02 13:54

Facsimile Transmission Message

Transmission No. 2190

Date 2-12-88

Time 1340

No. of pages (including this page): 4

To ERA Oslo

Att. Mr. Tesfaye

From

Subject SATURN T

Comments / Message:

Following faults traced on the
two units sent in for reparation

Nr. 1

- a) defective fuse F3.
- b) defective telephony receiver.

Nr. 2

Defective fuse F3 only.

Pls. check the fuses on the
units in Eritrea.

I am sure that blown fuses
is the problem.

BRGDS

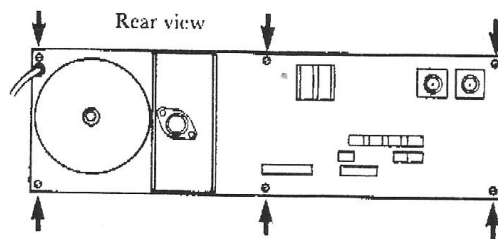
R. Egil Karlsen

If you do not receive all the pages, please call back as soon as possible!

Mail
P.O.Box 98
N-1360 NESBRU
Norway

Telephone
International +47 2 84 30 6
Telex 71 721 umcb n
Telefax 84 46 21

BELOW DECK ELECTRONIC UNIT (BDEU)



Loosen the six screws "←" and swing down the rear board.

FUSES

Mn. Testpage!
Pls. check the fuses

1.6 A Slow
17 V

F2

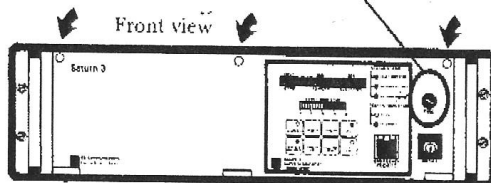
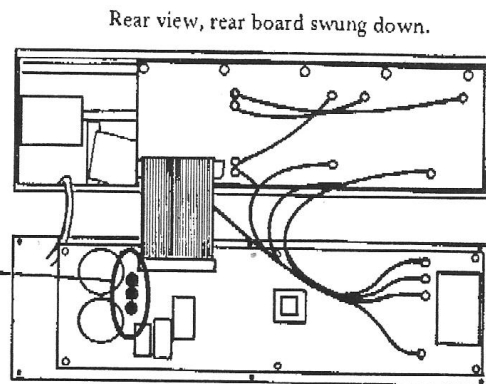
4 A Slow
5 V

F4

1 A Slow
-20 V

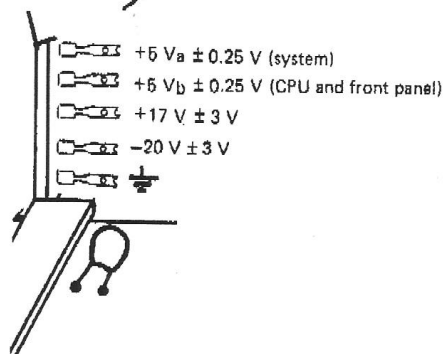
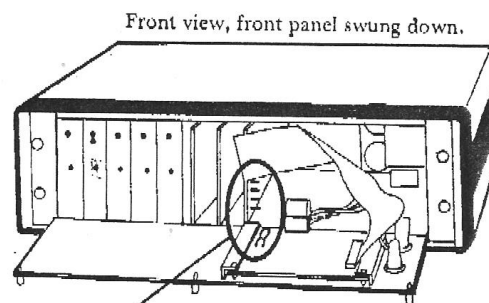
F3

Mains fuse
1 A Slow



Loosen the three screws "←" and swing down the front panel.

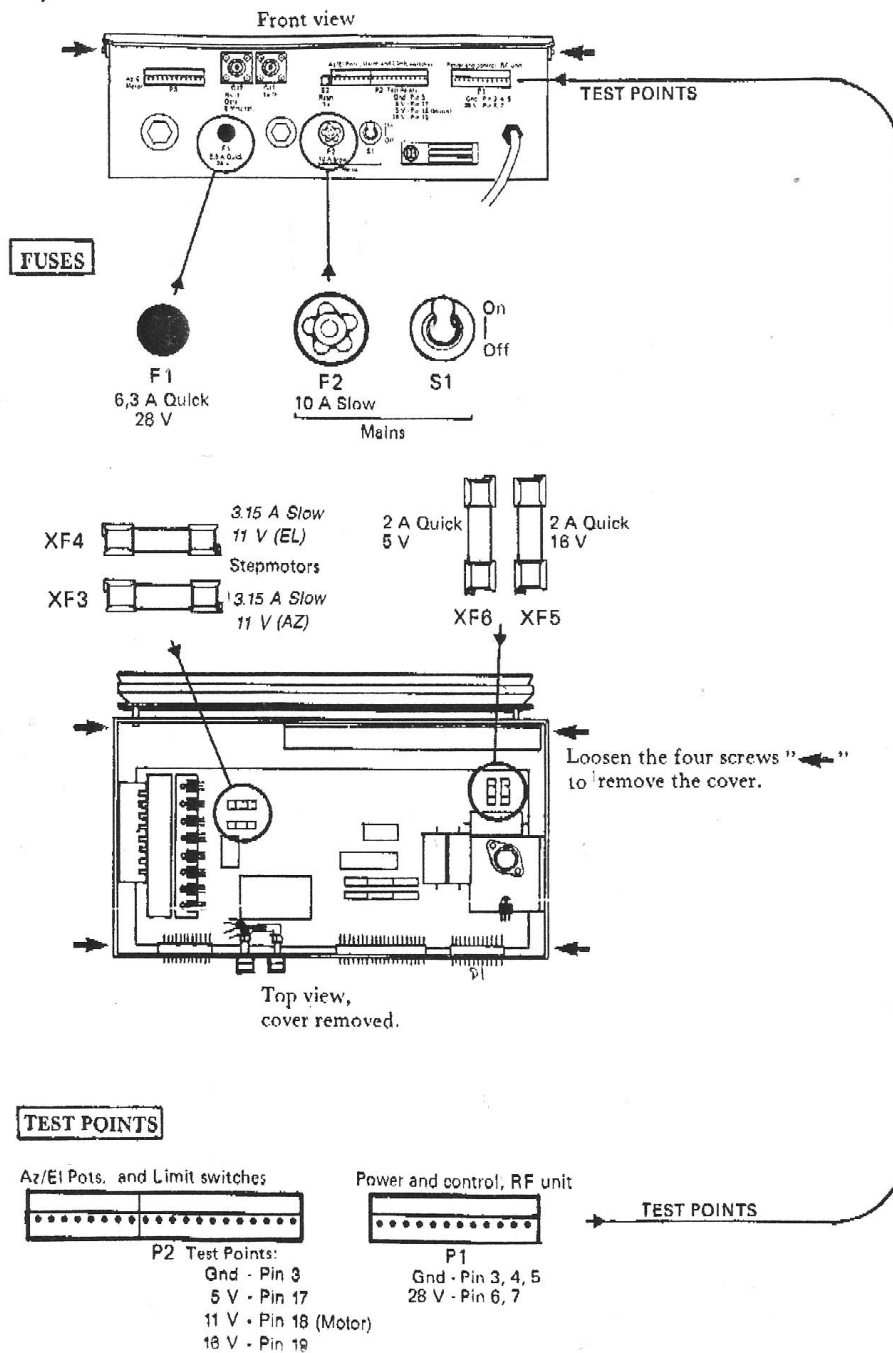
TEST POINTS



34

FUSES & TEST POINTS, ADE

POWER AND CONTROL UNIT





FACSIMILE TRANSMISSION MESSAGE

Transmission No. Date 22.3.88 Time
No. of pages (including this page): 1
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neccessary spare parts or information can be provided to you, in
order to have the equipment operational again.

Best regards,
Helge Kvåvik
Service Department Manager

EPLF **Telefax** 

From EMNETU

Fax no. 4-503632

To	TONINO, ERITREA	
Fax no.	873 - 1310242	
Date	6-4-88	Page 1 of 3

Subject:

ደብዳቤ : ኒውሲስፒን

[illegible]

ደርጋ፡ ጸዢ፡ ሎሚ፡ ዝኣብሩኦ፡ ዘሎ፡ ንፑሒት፡ (electronics) ኣቲ፡ ክፋስታ፡
ካለእቲ፡ ኅላዎ፡ ዝቐየር፡ ኣምላር፡ ዛዕሪ፡ ቃይነን፡፡ ስእዜ፡ ንምዞ፡ ተረፊ ጽዮ፡ ዘሳቱ
ኣዘን፡ ዝኣበሰ፡ ዝቐየሩ፡ ንፑሒት፡ ማለ፡ ን-ክ፡ ክስተኤን፡ ሓዲኤን፡ ምዕ፡ ተቐየሪ
ኣቲ፡ TERMINAL፡ ክትሰርኻ፡ ተረ፡ ንግድ፡፡

1. CHARGING CIRCUIT (A CAR)
2. REFERENCE OSCILLATOR

አዚ፡ ማቸየር፡ ንቸሒት፡ ልክስን፡ ንእለቲ፡ እቦ። ካለ፡ አዚኔን፡ ንቸሒት፡ ዘበጻጽ
ዘካለር፡ ነገር፡ የልባን። NE 1 ንጥቆር፡ ቀሪል፡ እቦ። NE 2 ቅሩ፡
ዝነላልት፡ ቤተ፡ ኣሎ። FOR LOCATION SEE DRAWING IN PAGE 3
NE 2 ደርታ፡ ስልት፡ ኢት፡ እቦ፡ ዝለላት፡ ዝሓዘ፡ ሃለቦ 1 ከንቲቆር፡ ንኣኹም።

ኣቲ፡ ዛቸልጠራ፡ ናብኡ፡ ገዱ፡ ዝመጽእ፡ ዘኤ፡ ቂውሎን [ERA] እሳ፡ ዛቸና፡ ስዐ።
ናብ፡ ሽወደን፡ ዝምዛዙድ፡ ኣዚ፡ SPARE PARTS ይገብር፡ ኣለኹ። ኣዛ፡
TERMINAL ውሕስነት፡ እሳ ዘለዎ፡ ንዓይ፡ መመት፡ ኣቲ፡ ዛንደድ፡ ኖቲት፡ ነፃ፡ ኣቦ።
ወን፡ ኩነት፡ ኣለዎ። ንሉ፡ ድማ፡ ኣቲ፡ ዛተላፊል (HAFPL) ንቅሑት፡ ናብ፡ ሓጺህ፡
ከምኣሳ፡ ኣለዎ። እሳ፡ ምእት፡ ቀልጧ፡ ዛተርከበ፡ ገያፊ፡ ናብ፡ ገዱ፡ ዝድድዎ።

90X7: TERMINAL H+H2: SPARE PARTS: 4242: 0007: 4242/123? X-1:
 07M: 02: 122: 0722: 0007: 00: X7: TERMINAL: 7000 (power)?
 4242: X7+4242: 0722: 0007/123: 0002: 4-123: 123/1: 123/123?
 4242: 4242/123: 0722/123: 0722/123: 00:

- [illegible]



SATCOM DIVISION
MARINE DEPARTMENT

'88.04.06 12:05.04.88 13:08

FACSIMILE TRANSMISSION MESSAGE

Transmission No. 1400 Date 6/4/88 Time 13.45

No. of pages (Including this page): 1

To ELF

Att. Emnetu Tesfaye

From Svein Eriksen

Subject Sat.com - Eritrea

Comments/Message:

Problem seems to be related to Reference Oscillator heating:

The specified temperature is not achieved after 30 minutes, and frequency consequently wrong.

Possible reasons:

1. Faulty stand-by heating batteries.
2. Faulty charging circuit for batteries, or wiring for stand-by heating system.
3. Thermo glass bulb in Reference Oscillator broken by a heavy mechanical shock.

Recommended action:

- A. Change printed circuit board "TFU" to one without stand-by heating facility. This will solve problems in items 1 and 2. (pre-heating system lost)
- B. Replace damaged Reference Oscillator.

This will solve problem item 3.