EPLF Telefax	To EPLF – TONINO
From EMNETU TESFAY	Fax no. 873-1310242
Fax no. 4-503632	Date 22-3-88 Page 1 of 5

Subject:

ለHL:+ወዘHባችሁ: Hhየችሁ: ሳለፉ±ች: ችለHL: ባይሁ: Hh: ሀHችኗች: ይገፋችኗች: ለችሁንች: ሃተሳችች: +ፈችሸዉ ው: ችR: Hh:: CONGRATULATIONS

Content

Page 2 Information from the manufacturers of Saturn T. ችHL: ሊለሁ: Hለው: ፍየችሁ ችንተHይለው: fax ይተየሁ: ው ችለፈ::

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

Page 3-5 Telefax from London to Nerayo.

EB NERA

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

VIA BRUSSELS

EPLF Telefax	To TONINO, ERITREA
From EMNETU TESFAY	Fax no. 873 - 1310242
Fax no. 4-503632	Date 1-6-88 Page 1 of 1

Subject:

- ኢታ: ብመንግዲ: Brussels: ዝተለደት: መልኢክት: ረኪበና; ኣለዩ:: ተርጒመ ድማ: ናብቶም: ዝጽሙሉና: ጓሕሉፉና: ኣቕሑ::
- ብዛዕባ: ኣዛ: ተኽሊ: ዘሎ: Terminal ተዳሉሉ: ሓላነት: ቀሪቡ: እለ ዘሎ: ውሳኔ: ምውሳድ: ዘድልየና: ኣዩ::
- ንብታ: ብመንግዲ: Brussels (ጴርምጻን) ዝሕደሮ ሱዕኩም: ናይ: Telefax መልኢክት: ብዛዕባ: ኣቲ: ሓዲ: ክኢላ: ሃብታ: ሱብንና: ምእዳጉ: ተባሂሉ: ዝነለ ሓላነት: ቀሊል: ሃይሉ: ጓይተረክብን:: ክብሃ: 4000 pound ኣለሉ: ተባሂቱ::
- ኢታ: ኩብንይ: ግን: ናታ: ሓላነት: ጓጉሊነቑ: ዘሉ: ኢታ: ዝተነሳሕዉት: UNIT ናይታ: Termimal (IDE-ODE-ANTENNA) ብሓድነት: ክትክእሱና: ኣዩ:: ኣዚ: ድማ: ኢታ: ዝተነሳሕዉት: UNIT: ምርጋጉ: ሃይሉ: ኣዩ: ንብ: ዕሬሉ: ድማ: ደጓና: ናይ: ሱዳን: ዘየንቋቋ: ኣንተሃይናምን: ኣዩ::
- ዝሓለፈ: ኦመን: ጽጋይ: ድንኽ: ሓይ: training ወሲዱ: ናብ: መኽሙ: ዝነቱ ሉብ: ክናይ: ተሓቲቱ: ነይሩ:: ኩመጺ: መዓሰቲ: ጀዊሉ: ሓይ: ሉብ: ንብ: ዝተነብሉ: ምዓልቲ: ብዩድ: ኢሉ: ዝበይዱ: ረኪቡ: ሃገሙ: ዘለ: ነገረኒ::
- ካብ: ሞርወይ: ዕለት 6/6/88 ሓይ: ናብ: ሱዳን: ኣኩሓ: ዝበይዱ: መይ: ሞርወይ: ኣለ:: ዕለት: ፈ0/6/88 ድማ: ነፅሉ: ኣቲ: ጀኔራ ሞርወይ: ዘነይድ: ናብ: መኽሙ: ክንቲቱ: ኣዩ::
- ድሕሪ: ኣዚ: Telefax ምርካበይ: ኣቲ: ቁጠጮ: ናይታ: Terminal ዝተሰራየ ይመስለ: እለ: ዘሎ: ብመንገዲ: ሃገሙዚ: ዝነዕብ: ኣንተተገብረ: ይሕይሽ: ስላሉይ: ኣዩ::
  ሀ. ኣዚ: ተይለዩ: ዘሎ: spare part ዕለት 6/6/88: ናብ: ሱዳን: ጀራ: ዝጽሞዝመይድ: ንገብር::
  ለ. ንብ: መኽሙ: ቀሰመጡሉ: ፈቲንሉ: ኣንተተዓረየት: ግርም ንብሳና: እንተዘይተዓረየት: ኢታ: ምሰኣቲ: ሀዚ: ዕለት: 20/6/88 ሃገሙትመይድ: ንገብር::
- ዘሉጡ: ሮኪይዋ: ብዛዕባ: ኣዚ: ተገሊጹ: ዘሎ: ሱናታት: ብተሰፋንስ ናብ: STAVANGER ለይድሉ: ንዑስጡ: ሃይተዳንጉና: ክንምቱ: ክንመስለይ::

ምሳ: ብጻይዋ: ለሳምታ

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 units in Eritrea be thoroughly checked.
- Many spare fuses are packed for shipment together with the new unit
- ብተከንክ: ጀነሬተሮ: ሕብረቓቲ: ዓቕሚ: operators ንባ: ውሑስ: Hhdo-: fuse ቀይሮ: ነፃፂሩ::
- I suggest that a seperate generator should be purchased and allocated for the sole purpose of providing power to the terminal.

EMNETU

URGENT

'88.12.02 13:54

EB NERA
SATCOM DIVISION
MARINE DEPARTMENT

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 us 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

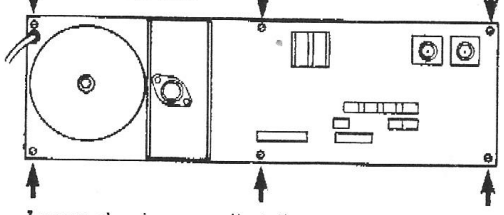
If you do not receive all the pages, please call back as soon as possible!

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

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

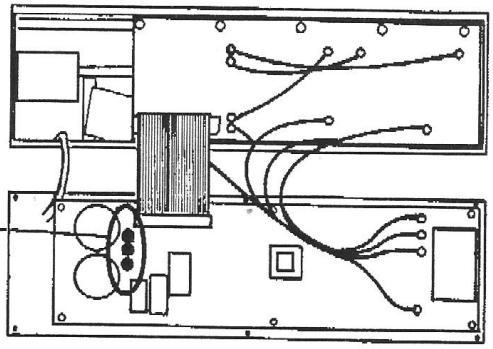
BELOW DECK ELECTRONIC UNIT (BDEU)

Rear view



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

Rear view, rear board swung down.



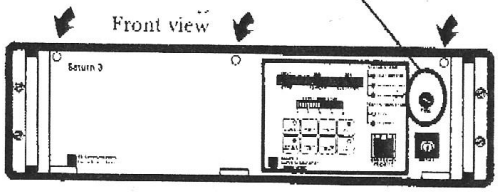
FUSES

Mr. Tesfaye! Pls. check the fuses

1.6 A Slow 17 V	F2	
4 A Slow 5 V	F4	
1 A Slow −20 V	F3	

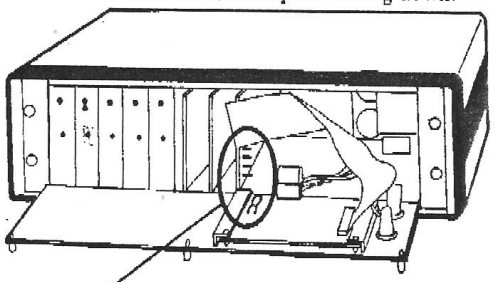
Mains fuse 1 A Slow

Front view

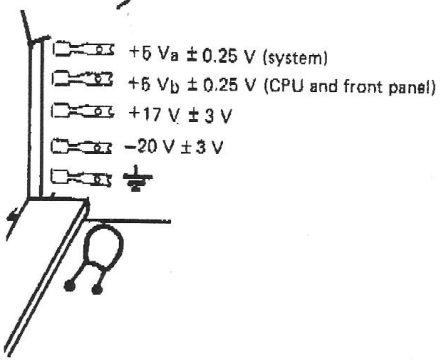


Loosen the three screws "◄" and swing down the front panel.

Front view, front panel swung down.

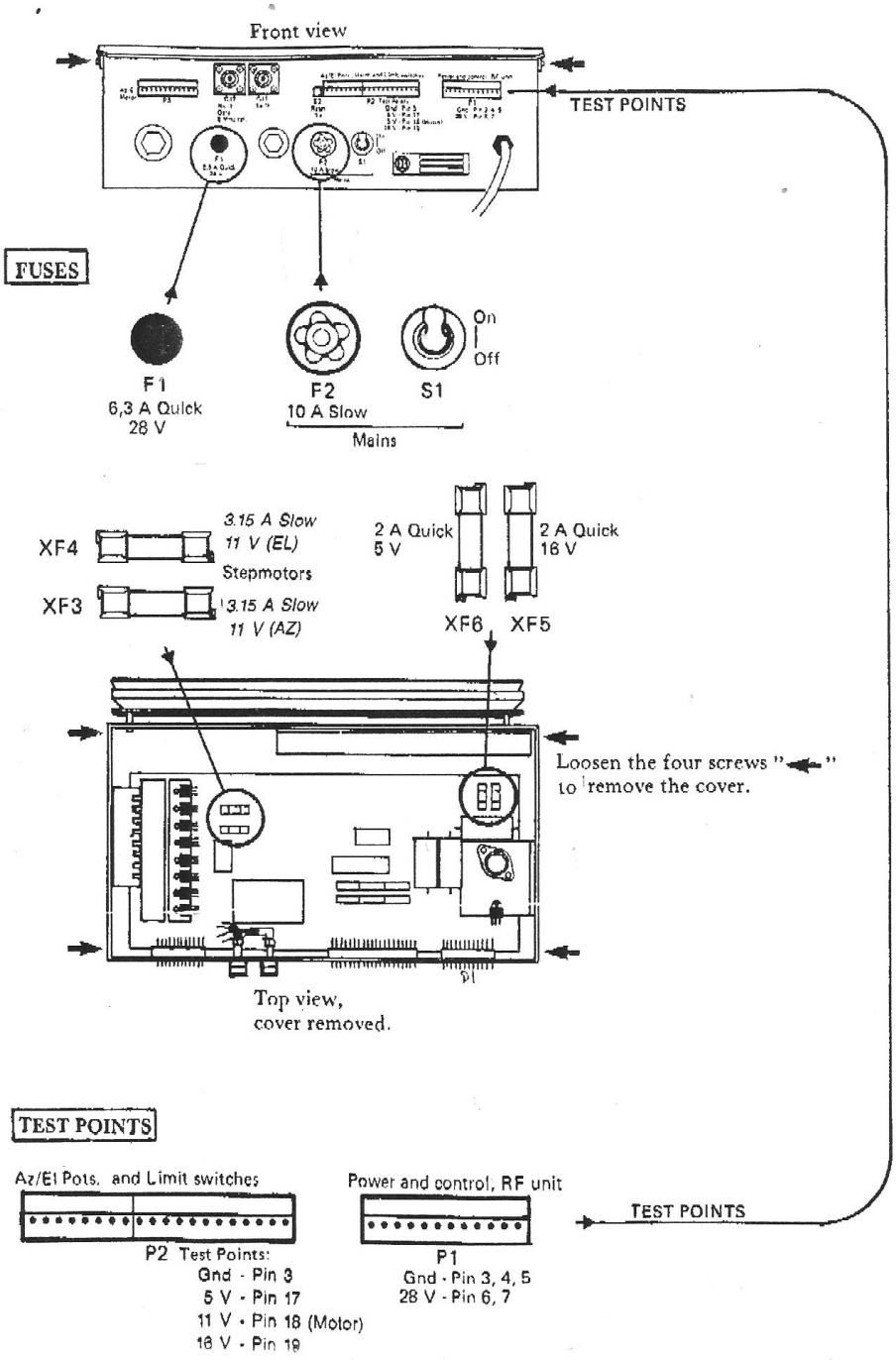


TEST POINTS



34 FUSES & TEST POINTS, ADE

POWER AND CONTROL UNIT



EB NERA

FACSIMILE TRANSMISSION MESSAGE

Transmission No. Date 22.3.88 Time

No. of pages (including this page): 1

To EAST FRIG PROJECT Att. ATT EMNETY TESFAY

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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

EPLF Telefax	To TONINO, ERITREA
From EMNETU	Fax no. 873-1310242
Fax no. 4-503632	Date 6-4-88 Page 1 of 3

Subject:

ዶክተር፡ ኣምሲኩም !

ኣብ፡ዕርፍቲ፡ሩክን፡ቀሪና፡ ትማሊ፡ዕለት፡ 5-4-88፡ ንሮሓ፡ ምኽ፡ ኣተኹ ኢተን፡ዝለደይኩመን፡ 2፡ ተለፋክን፡ ረኺለየን። ንዶ፡ንዶ፡ተርጉመ ኑቶም፡ፋብሪካ፡ ኣሕሊፈሎም። ሎሚ፡መዓሪቲ፡ ኣዘን፡ ዝእዕባ፡ 2፡ ንፃፃ ብተለፋክን፡ ሰይይ፡ይምለይ፡ ኢንሦ፡ናባኹም፡የሕፅፈን፡ኣለኹ።

ዲርታ፡ኣዚ፡ሎሚ፡ዝንሮሓ፡ዘሎ፡ ኣቕሑት (electronics) ኢቲ፡ክፍሰታቲ፡ ክለላፕ፡ክሎ፡ዝቕየር፡ኢምለር፡ዝዕረ፡ንይክነን። እለዚ፡ክምዚ፡ተረይኣኩ፡ዘለኹ ኣዘን፡ዝእዕባ፡ዝቕየሩ፡ኣቕሑት፡ ማለት፡ክብ፡ክሊቲ፡ኤን፡ ሰይ፡ኤን፡ ምክ፡ተኹየረ ኢታ፡ TERMINAL፡ ክትለርሕ፡ተንሩ፡ንግብር።

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

ኣዚ፡ዝቕየር፡ኣቕሑት፡ ፈሩንን፡ ንእሽቲን፡ ኢዶ። ክብራ፡ ኣዚኤን፡ ኣቕሑት፡ዘወፃኹም ዝግለር፡ናግር፡የፅበን። Nº 1 ንምቕያሩ፡ ቀሊል፡ኢዶ። Nº 2 ቁሩብ፡ ዝክፋፈት፡ቦታ፡ኣሎ። FOR LOCATION SEE DRAWING IN PAGE 3 Nº 2 ዲርታ፡ንሕት፡ኡቶ፡ ኢዶ፡ዝለለፕ፡ኦኢዚ፡ብNº 1 ክንቕምሮ፡ኣለኩም።

ኢቲ፡ዝቕፅጠፈ፡ናብኡ፡ግጹ፡ዝመጽኣ፡ዘሎ፡ ቂውሎክ [ERA] ንለ፡ዝኸነ፡ ሎሚ ናብ፡ኽወደን፡ ዝምዘኸይድ፡ ኣዚ፡ SPARE PARTS ይግብር፡ኣለኹ። ሂሃ፡ TERMINAL ውሕነት፡ ንለ ዘለዎ፡ ንሓይ፡ግመት፡ ኢቲ፡ ዝንይድ፡ ኣቕሑት፡ ኣፃ፡ ኢዶ። ግን፡ኡነት፡ ኣለዎ። ንሱ፡ ድማ፡ ኢቲ፡ ዝተለፋሸወ (ዝተቕየረ) ኣቕሑት፡ ናብዚ፡ ፋብሪካ፡ ክንምለስ፡ኣለዎ። እለዚ፡ምኽ፡ ቀሰጠኹ፡ ዝተርክበ፡ግንኻይ፡ ናብዚ፡ግጹ፡ ክንደቕም።

ምኽ፡ TERMINAL ዝተለደ፡ SPARE PARTS፡ ነይሩዶ፡ ወይስ፡ ኣይነበረን? ኣብ፡ ውሽጡ፡ ሓይ፡ ለይቲ፡ ክንይይ፡ ሰዓታት፡ ኣፃ፡ ኢታ፡ TERMINAL፡ ትውለፅ (power)? ኣርሲዱ፡ ኢንተሃጽኑ፡ ኢትም፡ ብወነንይ፡ኑ፡ ናይዚ፡ ፋብሪካ፡ ብቕሳታ፡ ብተለፎን፡ ክምለስ፡ዘርክብኩም፡ ክንግብር፡ንክኢል፡ ሂና።

— ትማሊ፡ ሃዊሕ፡ ተጸብየ፡ ኣይተኸፍተትን፡ እለ፡ዝነበረት፡ ክለይልኩም፡ ንይክኣልኩን
— ንርጉኮ፡ብይሓን፡ LONDON፡ ኣትዩ፡ ሰላም፡ በለለይ፡ ይብል፡ ኣሎ።

47 2 844621

'88.04.06 12:06.04.88 13:08

EB NERA

SATCOM DIVISION
MARINE DEPARTMENT

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 acheived 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.