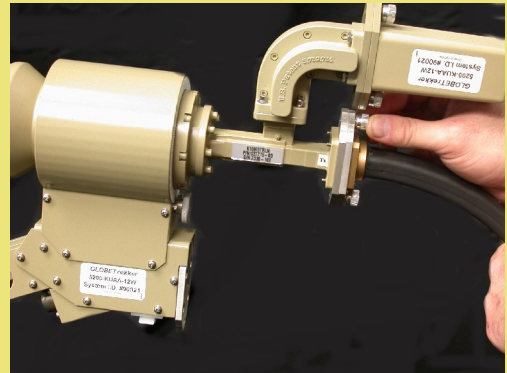**Connecting the Waveguide to the Feed Assembly**

1   Remove the protective covers from each flange (or end) of the flexible waveguide.

   Note: Store the protective covers in the backpack. They will need to be reapplied upon disassembly.

2   Attach one end; does not matter which end you use; of the waveguide to the middle region of the feed assembly using the thumb screws.

3   Attach the other end of the flexible waveguide to the bottom region of the feed assembly using the thumb screws.
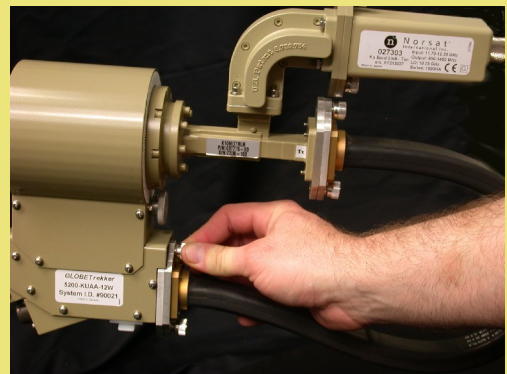
Selecting and Connecting the Cable to the LNB

1 Select the green color-coded cable with the male N connector as shown.

2 Attach the green color-coded cable with the male N connector to the female N output connector on the LNB.

3 Select the next cable towards the front of the baseband, with the size 12, 8-pin amphenol connector as shown.

4 Attach the cable with the 8 pin amphenol connector to under-side of the base of the feed assembly.

5 Stretch the cables from the feed assembly on the underside of the boom arm towards the main antenna assembly. Leave enough slack in the LNB cable to enable the LNB to rotate freely.

6 Clip the cables into place along the boom arm (underside).
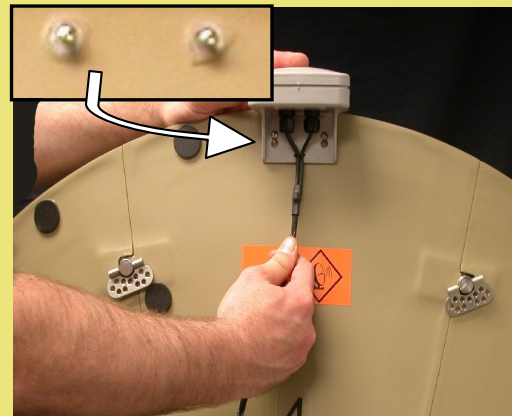

You have successfully completed the antenna assembly.

Attaching the GPS Antenna and Compass Unit

1   Attach GPS Antenna and Compass Unit to the mounting hardware on the top of antenna segment 4 (top middle).

   Note: Mounting hardware is shown in inlayed picture.

2   Select the attached cable with the 4 pin male amphenol connector and Subminiature (SMA) connector.

3   Connect cables to baseband unit.

   Hint: Align the notch on the larger amphenol connector when connecting it to the baseband unit.

4   Clip GPS antenna and Compass cable to back of main antenna segment.

Connecting the Cables to the Main Antenna Assembly

1   Select the 3 pin male amphenol connector (inclinometer cable).

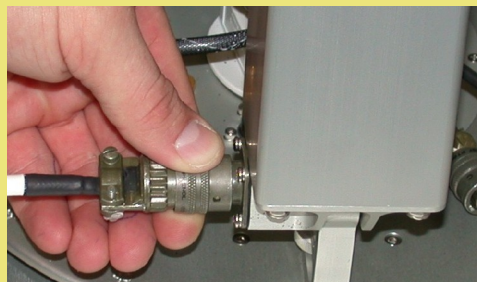2   Connect the 3 pin male amphenol connector to the baseband unit.

3   Select the 6 pin female amphenol connector (from baseband connecting to elevation assembly).

4   Connect the 6 pin female amphenol connector (from the baseband unit) to the elevation assembly.

Hint: Align the notch on the amphenol cable when making the connection to the elevation assembly.

5   Select the 12 pin female amphenol connector (from baseband connecting to SSPA).
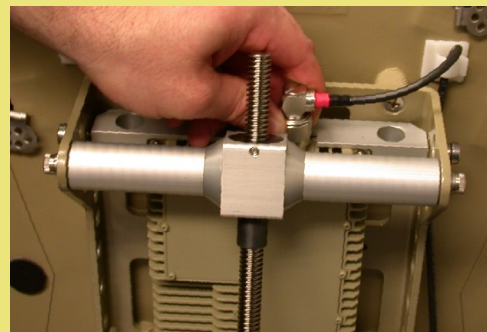

6   Connect the 12 pin female amphenol connector (from baseband unit) to the SSPA.

7   Select the 90° red color-coded male N connector.

8   Connect the 90° male N connector to the top of the BUC. Clip cable to main antenna segment.

You have completed the set up of the terminal.

6 Powering the GLOBETrekker

Topics Covered:

Norsat GLOBETrekker

6 Powering the GLOBETrekker

This chapter explains how to power up the GLOBETrekker terminal using a DC power supply, AC power supply or a battery pack.

The GLOBETrekker requires a 24V DC power source.

The GLOBETrekker comes with an AC/DC power supply (rugged black case).

An optional battery power pack is also available.

AC/DC Power Supply

Types of Power Available for the GLOBETrekker:

- Mains
- Battery Pack
- Vehicle (2 types available)

Connecting the AC/DC Power Supply

The power supply cables consist of the following types of connectors:

DC Cable:

Four pin female connector
(Connects to GLOBETrekker)

Five pin male connector
(Connects to AC/DC power supply)

AC Cable:

Three pin female connector
(Connects to AC/DC power supply)

Three prong AC connector
(Connects to AC power source)

Note:
The cable connectors identified above are typically used in North America. International
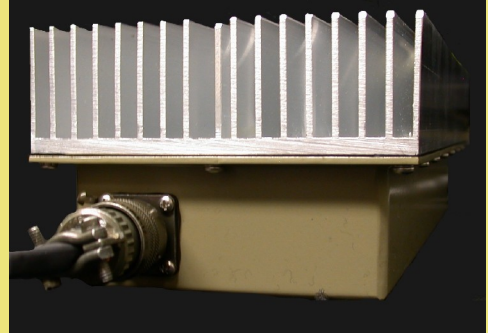versions of these cables will have standard UK or European connectors.

Attaching the Power Supply

To attach the cables to the power supply, perform the following steps:

1   Attach the three pin female connector (AC cable) to the three pin male connector on the power supply.

2   Attach the five pin male connector (DC cable) to the five pin female connector on the power supply.

3   Attach the four pin female connector (DC cable) to the four pin male connector on the baseband unit front panel.

4   Once you have made all of your connections, plug the three prong AC connector into an AC power source.

Note: Make sure that the baseband power switch is in OFF position.
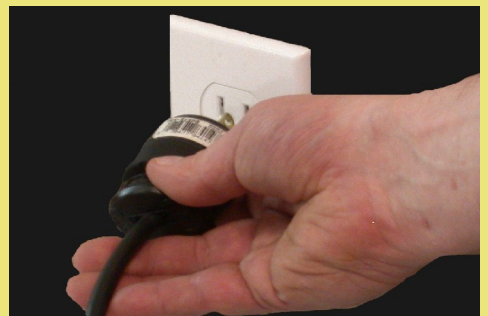
You can skip to the next chapter.

7 Attaching Peripheral Equipment

Topics Covered:

Norsat GLOBETrekker

7 Attaching Peripheral Equipment

This chapter describes how peripheral equipment may be attached to the GLOBETrekker terminal.

For ultimate flexibility the GLOBETrekker is equipped with five connectors for peripheral equipment. Figure 16 below shows the locations of the two Ethernet connectors, one USB connector and one RS-232 Connector.

The Ethernet connectors can be used to connect a wireless router, laptop, camera, or similar peripheral equipment.

The USB connector can be used to connect USB compatible speakers, a mouse, a keyboard, a memory stick or a USB hub.

The RS-232 connector is mainly used for testing and maintenance purposes.

The Monitor connector is used to connect an optional control unit for use in controlling the GLOBETrekker.

Figure 14   Peripheral Connections

7 Attaching Peripheral Equipment
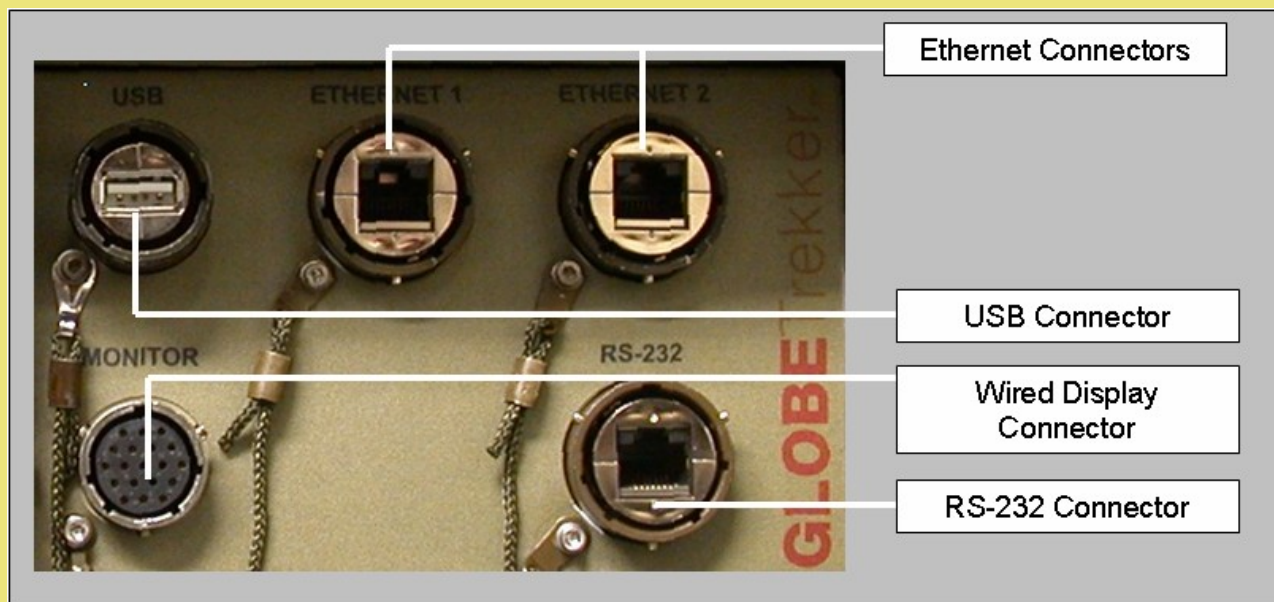
Attaching the Laptop

Attach the laptop to the back panel of the baseband unit.

NOTE: The laptop should be powered up right after the GLOBETrekker is powered up.

Attaching a Laptop Using Remote Desktop Application

1   Connect an Ethernet cable to the laptop.
2   Connect other end of the Ethernet cable to one of the Ethernet connectors; Ethernet 1 or Ethernet 2; on the GLOBETrekker.
3   Power up the GLOBETrekker and then power up the laptop.
4   Run the Remote Desktop application. On your laptop, running Windows XP, select **Start-> All Programs -> Communications -> Remote Desktop Connection**.

   Hint: Create a shortcut to the Remote Desktop Connection onto your desktop.

Remote Desktop setup: Only for Ethernet cable connections using a laptop

3   Note the default IP settings for the GLOBETrekker's internal computer:
      IP Address: 192.168.77.3
      Subnet Mask: 255.255.255.0
      Default Gateway: 192.168.77.1

4   Set the laptop LAN IP Address to **192.68.77.55** and subnet mask to **255.255.255.0** to put it on the same subnet as GLOBETrekker.

5   Ensure your laptop computer is connected to the GLOBETrekker as noted above.

6   Launch Remote Desktop or double click the Remote Desktop Application icon on the desktop (shortcut) to launch the application.

7   It may take several minutes to establish the connection and you may need to retry if the GLOBETrekker has not completely started prior to Remote Desktop attempting to establish a connection.

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NOTE:
READ this chapter prior to:
- your first use
- a change in satellite transponder
- a change in hub
- a change in location

8 Commissioning the GLOBETrekker

Topics Covered:

Norsat GLOBETrekker