



# Replacement DISH® 1000 LNB Assembly

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Rev8 4-20

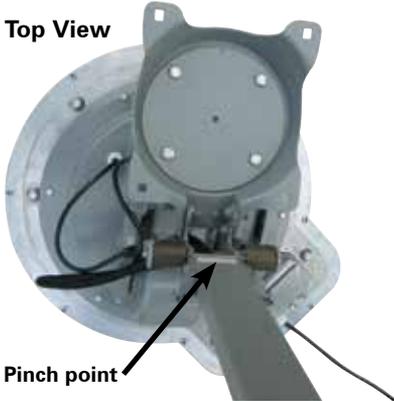
## Raising the Antenna

Follow the steps below to raise the antenna for reflector, bracket, and LNB assembly removal.

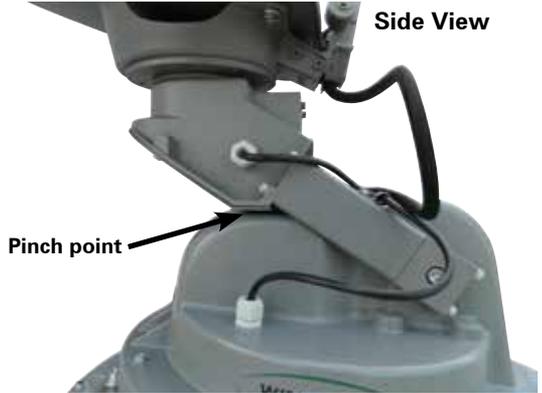


**Pay attention to the pinch points as the antenna raises. See below.**

Top View



Side View



1) Press **[POWER]**, and hold for two seconds to turn on the TRAV'LER® interface box. Wait until the interface box finishes "connecting to antenna." The TRAV'LER antenna may enter the search routine after ten seconds.

2) As the antenna raises, press **[POWER]** and **[SELECT]** at the same time. The antenna should stop moving.

3) Unplug the TRAV'LER interface. Continue with reflector removal.



**If you cannot get the antenna to raise by following the above instructions, you may have to raise the antenna with the emergency manual stow drive.**



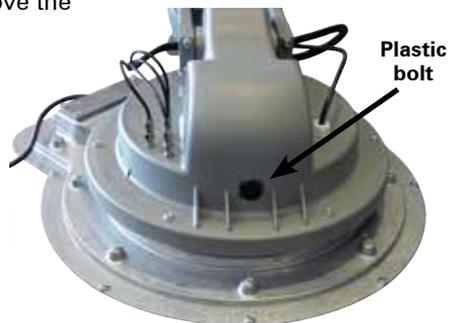
**EMERGENCY MANUAL STOW IS MEANT AS A LAST RESORT!**



1) Unplug the TRAV'LER interface, and remove the plastic bolt from the back of the mount.

2) Insert a  $\frac{3}{8}$  inch socket extension into this auxiliary drive. Turn the auxiliary drive counterclockwise to raise the unit. Do not use a drill!

3) After raising the unit, continue with the next section to remove the reflector and LNB assembly.



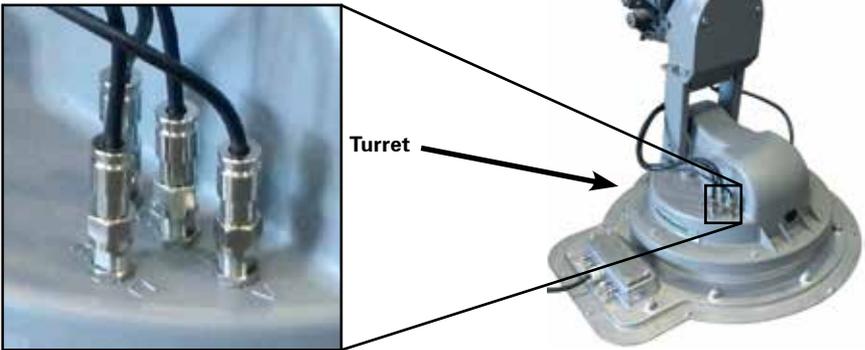
**NOTE** If you are replacing an existing Reflector and Assembly, follow the instructions below, otherwise proceed to "Installing the DISH Reflector and LNB Assembly" section.

## Removing the Reflector and LNB Assembly

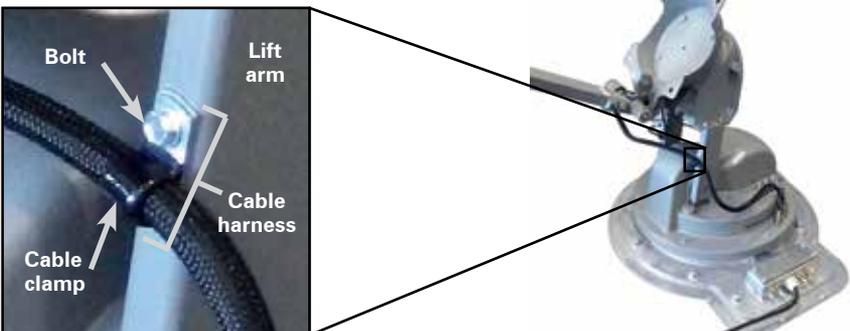
- 1) If converting a DIRECTV SWM Slimline antenna to a DISH TRAV'LER antenna, remove the power inserter and SWM splitter; these will not be used.
- 2) Remove the four reflector nuts and bolts, and remove the dish. Set the nuts and bolts aside.



- 3) Disconnect the coaxial cables from the turret. Note that the D port will not be present on a SWM TRAV'LER antenna.

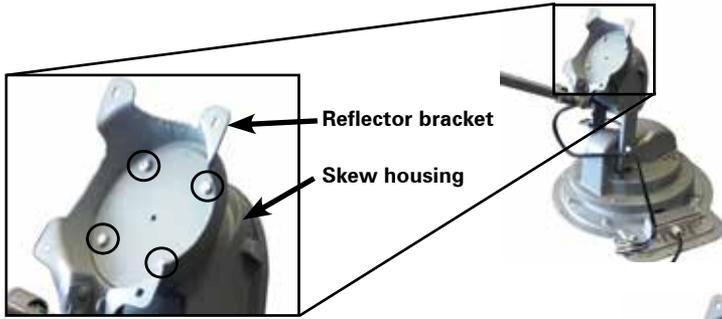


- 4) Remove the bolt holding the cable harness to the unit, and detach the cable harness from the lift arm.

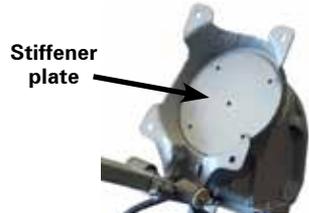


- 5) Set the bolt aside; you will need this later.

6) Remove the bolts holding the reflector bracket to the skew housing.

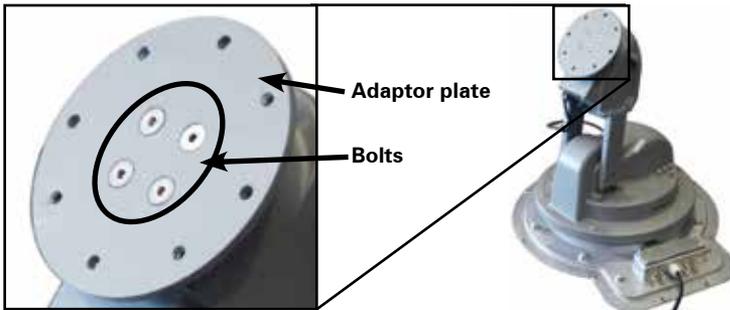


**NOTE** If replacing a Slimline assembly with a DISH assembly, remove and set aside the stiffener plate inside the reflector bracket.



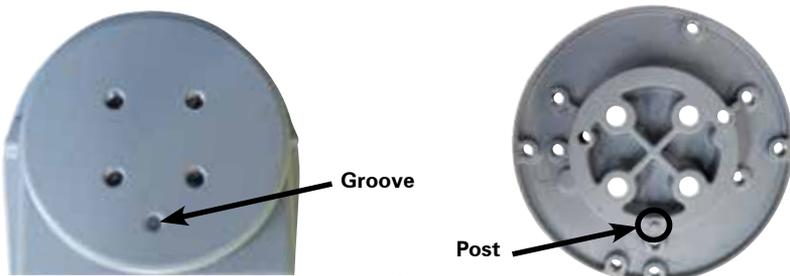
7) Remove the LNB arm assembly, and set aside.

**NOTE** If replacing a Slimline assembly with a DISH assembly, remove the four bolts from the adaptor plate, and remove the adaptor plate.



## Installing the DISH Reflector and LNB Assembly

**NOTE** If replacing a Slimline assembly with a DISH assembly, align the small post on the back of the DISH 1000 adaptor plate with the small groove on the skew assembly hub. Fit the small post into the groove. Secure the adaptor plate to the hub with the four supplied ¼ inch Allen screws.



- 1) Align the four holes on the inside of the reflector bracket with the four marked holes in the adaptor plate. See image below for the holes to align with the reflector bracket and adaptor plate. The numbers on the reflector bracket and adaptor plate should match.



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**TIP** The bracket should be installed so that the LNB arm assembly is at the bottom of this plate.

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- 2) Replace the supplied  $\frac{3}{16}$  inch Allen screws through these four holes, and tighten.
- 3) After the bracket has been installed, connect and tighten the coax cables. When installing the RP-SK21 the coax cables can be re-connected in any order, but port D should be left open. If you are installing the DISH Hybrid RPSK21H, connect the red heat shrink wrapped coax to Port C on the TRAV'LER turret and the black coax cable to Port A on the TRAV'LER turret.
- 4) Tighten each cable until finger tight, and then use a  $\frac{7}{16}$ " wrench to tighten a quarter turn more. Install the provided F-cap on port D. The F-cap will not be used if converting from a SWM TRAV'LER antenna.
- 5) Find the cable tie on the coax cables that you just connected to the mount. Place the coax cable clamp on the cables just above this cable tie. Carefully screw this coax cable to the lift arm using the  $\frac{5}{16}$  inch screw provided.



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 **Be careful not to strip out the hole for the  $\frac{5}{16}$  inch screws when you replace the clamp holding the coax cables to the arm. Do not use a power tool.**

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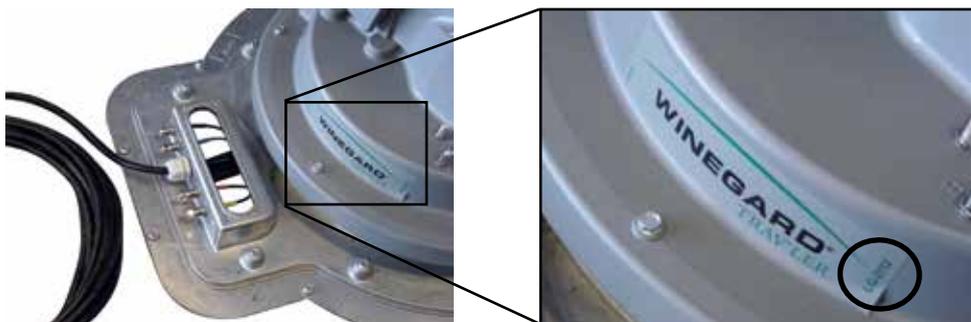
**NOTE** If the cable tie is missing, install the clamp fourteen inches from the end of the connectors.

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- 6) Align the four outer holes in the reflector bracket with the four corresponding holes in the reflector. Install a bolt through each hole on the front of the reflector, and install a nut on each bolt. Tighten.
- 7) Use the provided packaging to re-package the removed LNB and attached cables.

## Setting the IDU for DISH 1000

- 1) Press and hold **[POWER]** for two seconds or until the TRAV'LER interface displays "POWER ON."
- 2) Now that the power is on, release the **[POWER]** button.
- 3) Press and hold the **[ENTER]** button for two seconds. The TRAV'LER interface will ask if you wish to enter the User Menu. Press **[SELECT]** to choose "Yes"; then, press **[ENTER]**.
- 4) The User Menu consists of four choices: Search Mode, Diagnostics, **Installation**, and Exit. Press **[SELECT]** until the asterisk is next to "Installation" and then press **[ENTER]**.
- 5) The interface box will ask for a password. Press **[ENTER]** four times to enter code "0000" on the display.
- 6) Press **[ENTER]** to choose "Select Antenna."
- 7) Press **[SELECT]** until the asterisk is next to your mount type (SM Mount or LG Mount), and then press **[ENTER]**. The mount type can be found on the sticker on the TRAV'LER mount.



Mount type four digit code

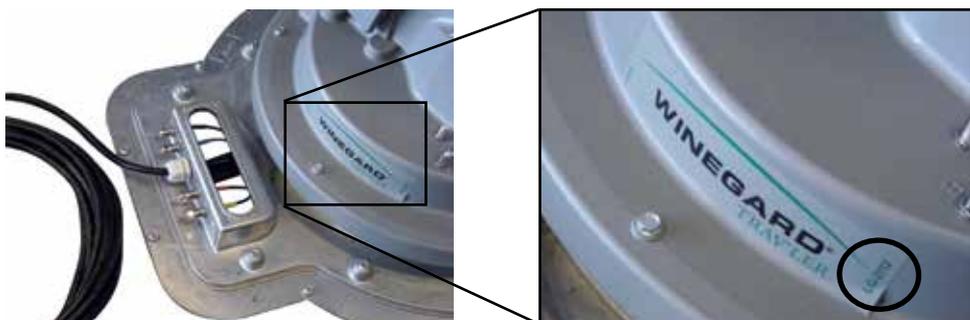


**Selecting the incorrect mount type can result in damage to the unit or the RV.**

- 8) Enter the four digit code for your mount type found on the sticker on the TRAV'LER mount. Enter code 0022 for the SM mount or code 2112 for the LG mount. Press **[SELECT]** to increase each number. Press **[ENTER]**.
- 9) Press **[SELECT]** until the asterisk is next to DISH 1000. Press **[ENTER]**.
- 10) Press **[SELECT]** until the asterisk is next to "Yes." Press **[ENTER]**.
- 11) The TRAV'LER interface box will display "in progress" and then "Success".
- 12) Press **[ENTER]** and then choose **[SELECT]** until the asterisk is next to Installation. Press **[ENTER]**.

## Setting the IDU for Bell ExpressVu

- 1) Press and hold **[POWER]** for two seconds or until the TRAV'LER interface displays "POWER ON."
- 2) Now that the power is on, release the **[POWER]** button.
- 3) Press and hold the **[ENTER]** button for two seconds. The TRAV'LER interface will ask if you wish to enter the User Menu. Press **[SELECT]** to choose "Yes"; then, press **[ENTER]**.
- 4) The User Menu consists of four choices: Search Mode, Diagnostics, **Installation**, and Exit. Press **[SELECT]** until the asterisk is next to "Installation" and then press **[ENTER]**.
- 5) The interface box will ask for a password. Press **[ENTER]** four times to enter code "0000" on the display.
- 6) Press **[ENTER]** to choose "Select Antenna."
- 7) Press **[SELECT]** until the asterisk is next to your mount type (SM Mount or LG Mount), and then press **[ENTER]**. The mount type can be found on the sticker on the TRAV'LER mount.



Mount type four digit code



Selecting the incorrect mount type can result in damage to the unit or the RV.

- 8) Enter the four digit code for your mount type found on the sticker on the TRAV'LER mount. Enter code 0022 for the SM mount or code 2112 for the LG mount. Press **[SELECT]** to increase each number. Press **[ENTER]**.
- 9) Press **[SELECT]** until the asterisk is next to ExpressVu. Press **[ENTER]**.
- 10) Press **[SELECT]** until the asterisk is next to "Yes." Press **[ENTER]**.
- 11) The TRAV'LER interface box will display "in progress" and then "Success".
- 12) Press **[ENTER]** and then choose **[SELECT]** until the asterisk is next to Installation. Press **[ENTER]**.

## Calibrating the Elevation Motor

**If you had to raise the antenna with the emergency manual stow drive, follow the instructions below for calibrating the elevation motor.**

- 1) From the installation menu, press **[SELECT]** to move the asterisk to "Calibrate EL"; then, press **[ENTER]**.
- 2) Press **[SELECT]** to move the asterisk to "Yes."
- 3) Press **[ENTER]** to start the elevation calibration procedure. The LCD should now display "Calibrate EL In Progress."
- 4) After a few moments, the TRAV'LER interface box will display "On EL Hard Stop?/ Yes \*No." Check that the antenna is against the hard stop.

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**TIP** If the antenna is against the hard stop, the antenna will be pointing upward as far as it can go.

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- 5) Press **[SELECT]** to move the asterisk to "Yes" if the antenna is against its hard stop.
- 6) Press **[ENTER]**, and the LCD will display "Calibrate EL Success." Press and hold **[POWER]** for two seconds to stow the antenna.



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