TracVision® M7 Elevation Motor/Belt Replacement Instructions

The following instructions explain how to replace the elevation motor / belt in a TracVision M7.

Tools Required

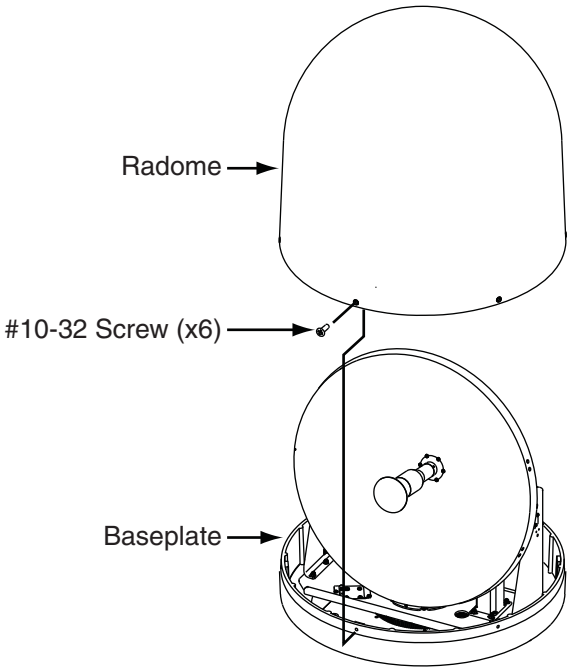
- #1 Phillips screwdriver
- #2 Phillips screwdriver
- Cutting pliers

CAUTION

For your own safety, be sure to disconnect power from all wired components before performing this procedure.

Using a #2 Phillips screwdriver, remove the six screws securing the radome. Then remove the radome and set it aside in a safe place.

Figure 1 Radome Removal

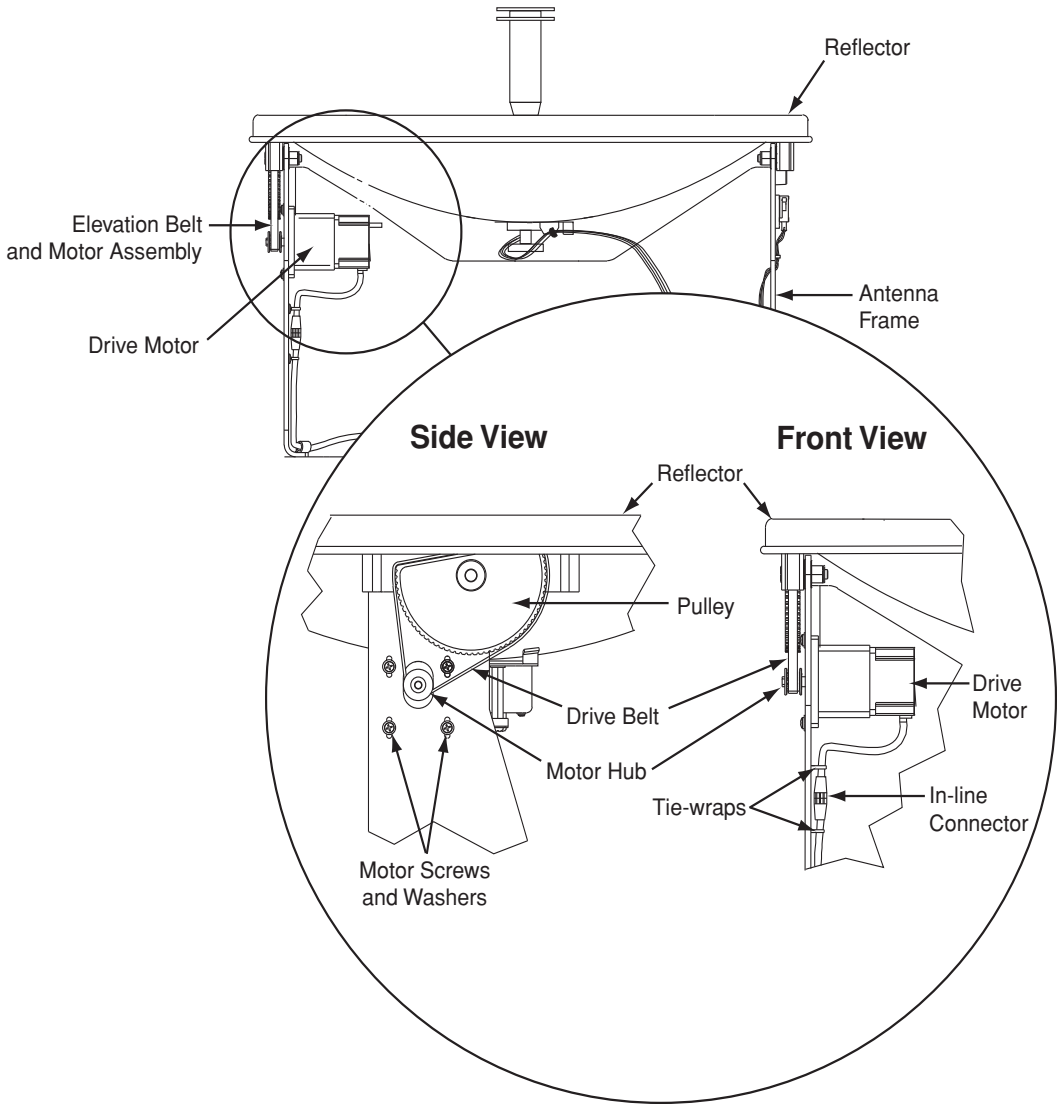


Component Locations

The elevation motor is mounted to the inside of the antenna frame. Screws and washers hold the motor in position to maintain proper belt tension.

To Replace:	Refer to:
Elevation Motor Belt	*Page 3*
Elevation Motor	*Page 4*

Figure 2 Elevation Motor/Belt



Replacing the Elevation Motor Belt

a. Loosen the motor's four Phillips screw until the motor is free to move upward. Then raise the motor to the top of the screw slots and retighten the screws to hold it in place.

b. Roll the belt over the motor hub while slowly moving the antenna reflector through its vertical range. Work the belt out from between the antenna pulley and reflector.

c. Carefully work the new belt in between the antenna pulley and the reflector.

NOTE: *Ensure that the belt teeth are positioned inside the belt loop.*

d. Once the belt is in place, slowly move the reflector through its vertical range to ensure the belt is aligned and the teeth engage the pulley.

e. Loosen the four motor screws. Then gently push the motor hub downward until the belt deflection is no more than 1/8" (3 mm) when moderate finger pressure is used between the motor hub and pulley.

NOTE: *Be sure to set the belt tension properly. Improper belt tension might cause excessive reflector vibration.*

f. Tighten the motor screws.

NOTE: *Be sure to apply a small amount of the supplied Loctite threadlocker to the threads of the motor screws before tightening.*

g. Reinstall the radome. Then reconnect power to the TracVision system.

The procedure is complete!

Replacing the Elevation Motor

IMPORTANT!

Be sure to trim the excess portion of any tie-wraps you install and collect all tie-wrap trimmings from the antenna to avoid damage when the unit rotates.

a. Using cutting pliers, cut and remove the top tie-wrap securing the elevation motor cable (see ***Figure 2 on page 2***).

b. Disconnect the elevation motor cable from the in-line connector.

c. Remove the four Phillips screws and washers securing the motor to the frame. Then remove the motor assembly.

d. Install the new motor assembly. Position the motor with the motor cable facing downward.

NOTE: *Ensure that the belt teeth are positioned inside the belt loop.*

e. Reinstall the four motor screws and washers without fully tightening.

f. Gently push the motor hub upward or downward until the belt deflection is no more than 1/8" (3 mm) when moderate finger pressure is used between the motor hub and pulley.

NOTE: *Be sure to set the belt tension properly. Improper belt tension might cause excessive reflector vibration.*

g. Slowly move the reflector through its vertical range to ensure the belt is aligned and the teeth engage the pulley.

h. Tighten the motor screws.

NOTE: *Be sure to apply a small amount of the supplied Loctite threadlocker to the threads of the motor screws before tightening.*

i. Connect the new motor's cable to the in-line connector.

j. Using a supplied tie-wrap, secure the motor cable to the antenna frame at the top tie-wrap location.

k. Reinstall the radome. Then reconnect power to the TracVision system.

The procedure is complete! Be sure to return the old motor to KVH.

NOTE: *Before returning the motor, be sure to obtain an RMA number from KVH Technical Support and write the number clearly on the outside of the box. Shipments received without an RMA number will be returned to you at your expense.*