

# WIRING & ALIGNMENT

## Check Feedhorn Alignment at Focal Point

If the tripod leg lengths are set as shown on page 7, the feedhorn should be at the exact focal point. To check this:

- Refer to page 1 for the focal length of the dish. Check this length from the front hub plate to  $1/4$ " inside the throat of the prime focus C-band feedhorn or  $1/16$ " inside the throat of the prime focus Ku-band feedhorn. Make adjustments to the tripod legs to obtain this measurement.

## Check Centering of Feedhorn

- Measure from the edge of the dish near each tripod bracket to the center of the feedhorn. These measurements (B) must all be equal. Make any necessary adjustments to the tripod legs. Re-check the focal length, and make necessary adjustments. The focal point is now set. Tighten the outside tripod leg nuts.

## Install & Connect LNBS & Servos

- Refer to the feedhorn and LNB manuals for installation and wiring instructions.
- Run the cables through the hole in the cover plate. Make sure all connections are sealed.

## Install Feedhorn Cover

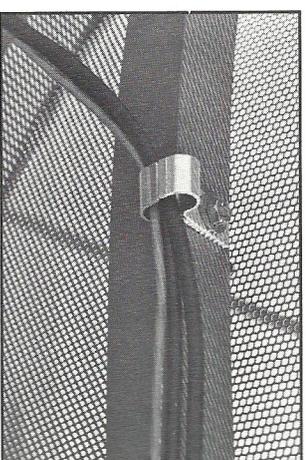
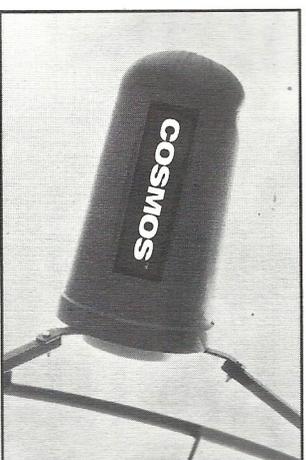
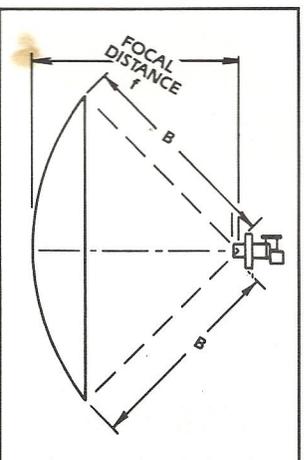
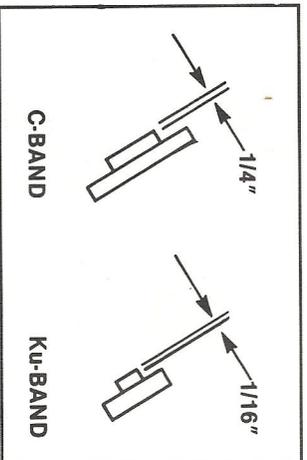
- Use four screws to attach the feedhorn cover to the cover plate.

## Attach Cables to Tripod Leg

- Use plastic wire ties to attach the cables to one of the tripod legs. Run the cables around the edge of the dish.

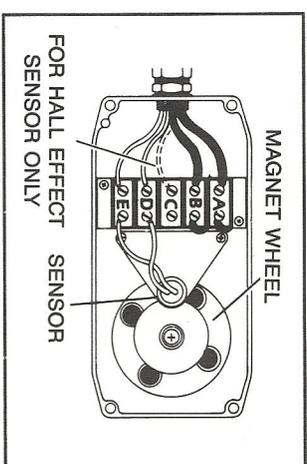
## Install Cable Clips

- Loosen the nuts from a rib and attach three cable clips between the nut and washer.
- Retighten the nuts.



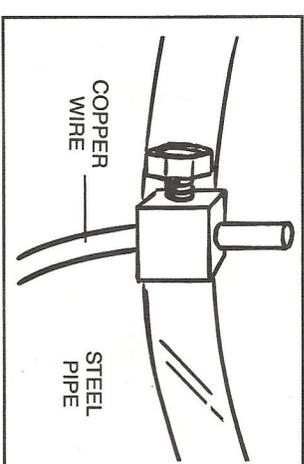
## Actuator Wiring

- Refer to the receiver and actuator manuals for actuator wiring instructions. Leave some slack in all cables to allow movement of the dish. Run the cables through the weather box and conduit. Seal all connections.



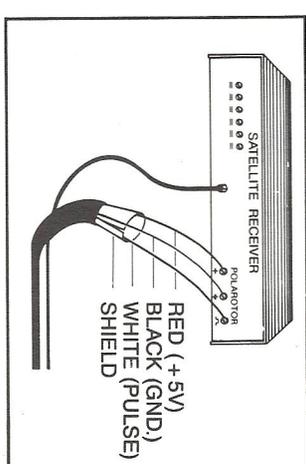
## Dish Grounding

- Connect the mount pipe to the grounding rod with a ground strap as required by local electrical codes.



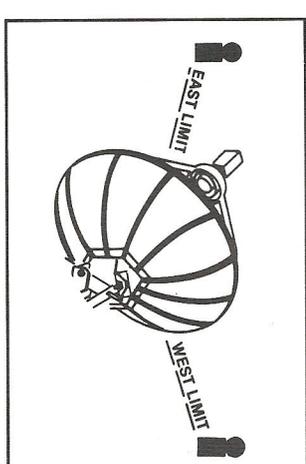
## Receiver Wiring

- For the initial tracking of the dish it is helpful to place the receiver and a portable TV on a sturdy table at the dish site. Do not do this if it is raining or the ground is damp. If you elect to do this, do not run the cables into the house yet. Refer to the receiver manual for wiring instructions.



## Set Dish Limits

- Follow the instructions in the receiver and actuator manuals for setting the east and west dish limits. These points should be just beyond the most easterly and westerly visible satellites.



**Note:** Be sure the actuator cannot extend far enough to topple over, causing damage to the dish and actuator.