

ASSEMBLY INSTRUCTIONS FOR INSTALLING AZIMUTH GEAR RACK

- 1) GR 100 - This shows the fasteners and the parts for the installation, these parts will be referred to during the instructions.
- 2) GR 101 - Two sets of holes are going to be drilled in this step. You must determine the height of the 1/4" hole to be drilled in the rib on the outside of the dome. Measure the height of the hole in the support block above the dome track, this can be done in the aperture. Drill the holes through all the ribs, being careful not to drill through the dome track.
- 3) GR 102 - Slide the rib block into the rib and align the hole and secure the rib block with the self tapping screws provided.
- 4) GR 102 - Assemble the azimuth gear rack in the dome on top of the dome track, make certain the last joint is in the viewing aperture. This will have to be cut to fit. Place the support blocks in between the gear rack and the dome track, this will elevate the gear rack and allow you to fit the last joint in the gear rack. Cut the gear rack in a similar manner as the factory made joints, drill and secure this joint.
- 5) GR 102 - A series of holes must be drilled in the gear rack. Pry the gear rack up above the rib block and drill a hole as shown in the drawing. Use a screw driver as shown so as not to drill through the dome skin. Start at either side of the opening and work your way around the circumference. Place the support block into alignment with the rib block and secure the gear rack, you are screwing the self tapping screw into the rib block, not the support block. The support block serves as a spacer in this location. Should the gear rack start to pull away from the rib blocks after securing several locations, STOP. Go back several holes and loosen the self tapping screws and put a shim into the space between the gear rack and the rib block, slide the shim over the screw, this will keep the shim in place. This should tighten the track in the dome, if the track starts to pull away again, repeat the same procedure.
- 6) GR 103 - Shows more detail of the assembly process.
- 7) GR 104 - This is the bracket that is used in the viewing aperture. Space these evenly across the opening, drill and secure the brackets. Drill the holes in the gear rack 1/4". When you are securing the gear rack across the aperture you are going to be screwing the self tapping screw into the support blocks with the smaller holes. Use the screws and nuts in the manner shown, the nuts must be on the outside of the dome track, if not they will come into contact with the dome rollers.

SHOULD YOU HAVE ANY QUESTIONS WHILE ASSEMBLING THIS MATERIAL

PLEASE CALL 815 436 9403

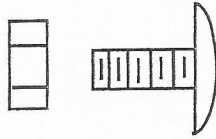
GR 100

PARTS LIST FOR AZIMUTH GEAR RACK ASSEMBLY

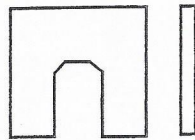
Track Splice Screw



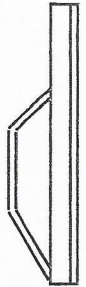
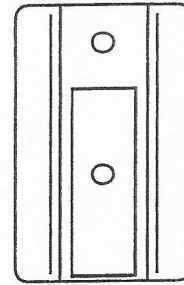
Bracket Nuts & Bolts



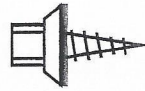
Gear Rack Shim



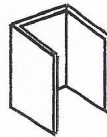
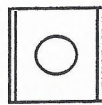
Rib Block & Gear Rack Mounting Bracket



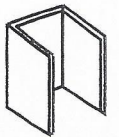
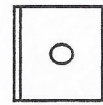
Self Tapping Gear Rack Mounting Screw



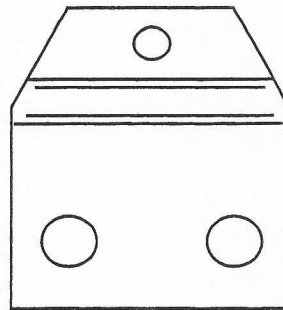
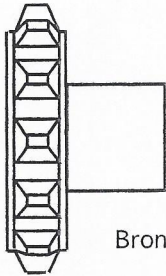
Support Block Larger Hole



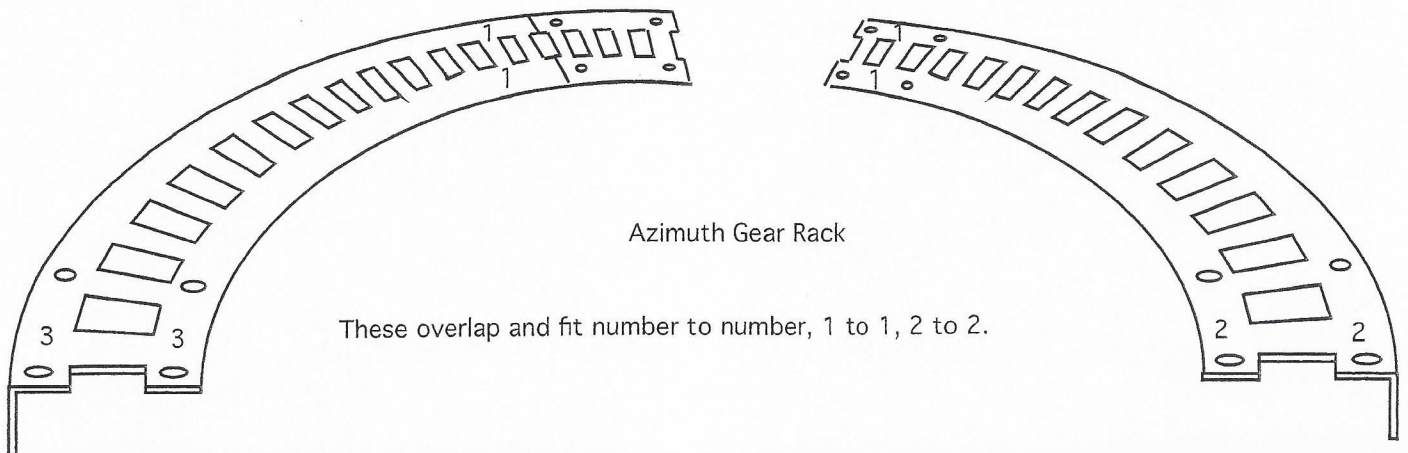
Support Block Small Hole
(used in aperture)



Aperture Mounting Bracket



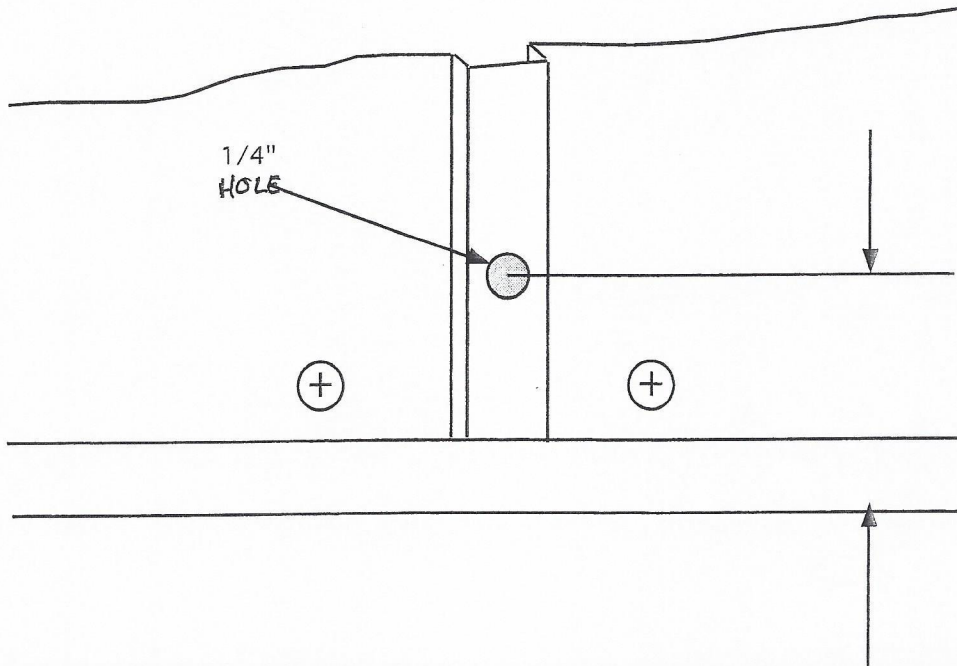
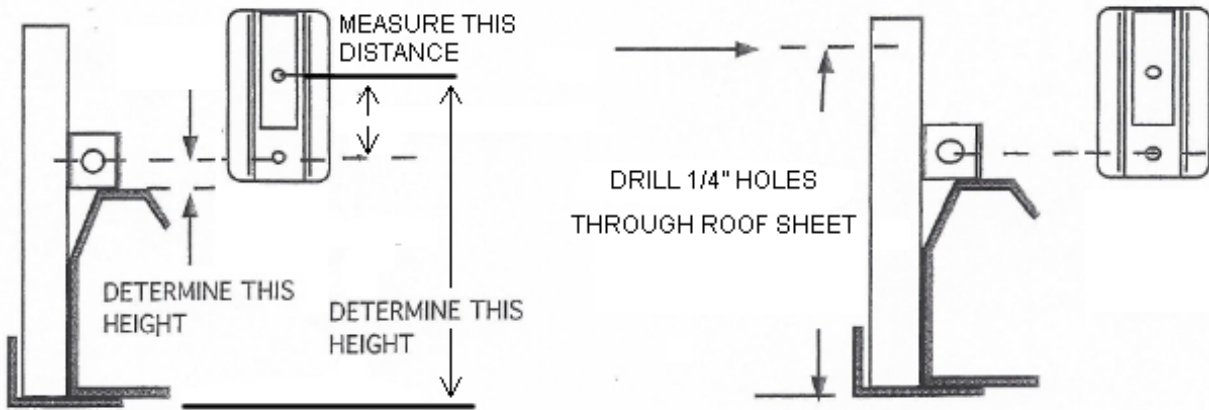
Bronze Drive Gear



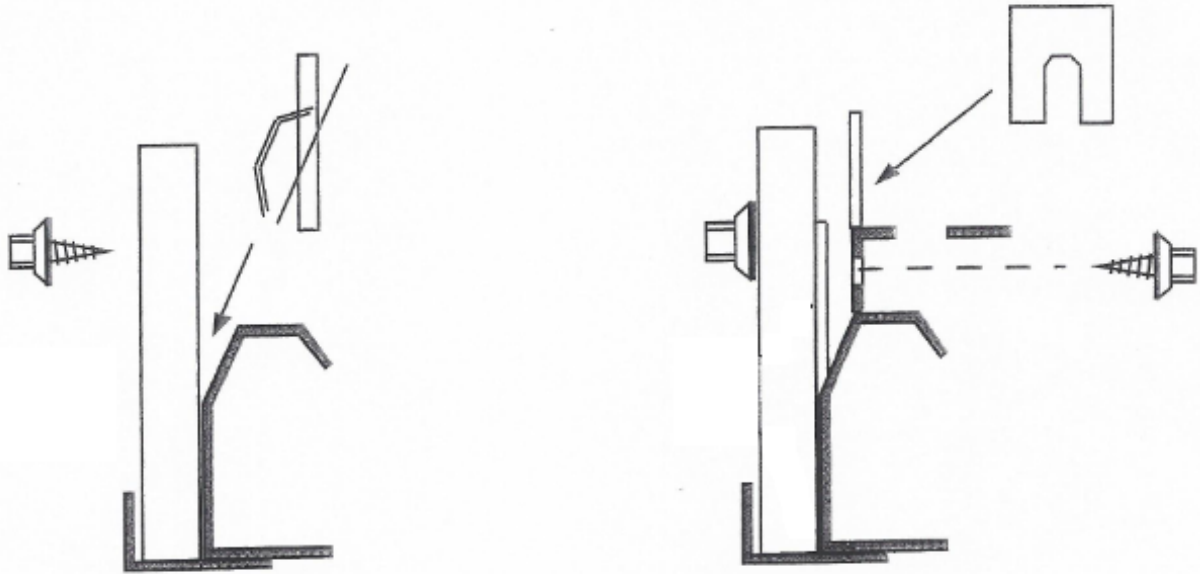
Azimuth Gear Rack

These overlap and fit number to number, 1 to 1, 2 to 2.

Holes for the Rib Block Brackets are drilled from the OUTSIDE

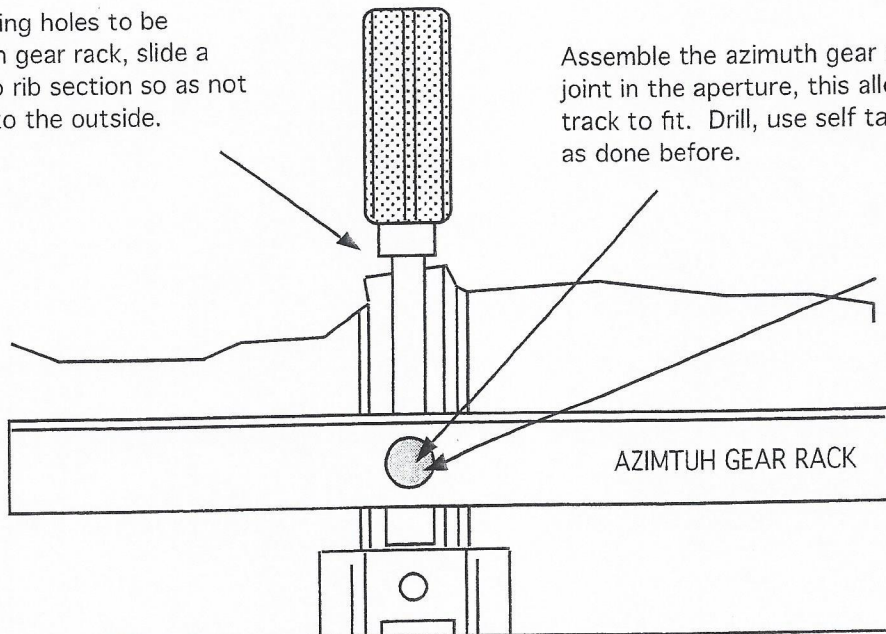


SECURING RIB BLOCK AND LOCATING HOLES IN AZIMUTH GEAR RACK



TIP : When locating holes to be drilled in azimuth gear rack, slide a screw driver into rib section so as not to drill through to the outside.

Assemble the azimuth gear rack and keep the last joint in the aperture, this allows you to trim the track to fit. Drill, use self tapping screws to secure joint as done before.

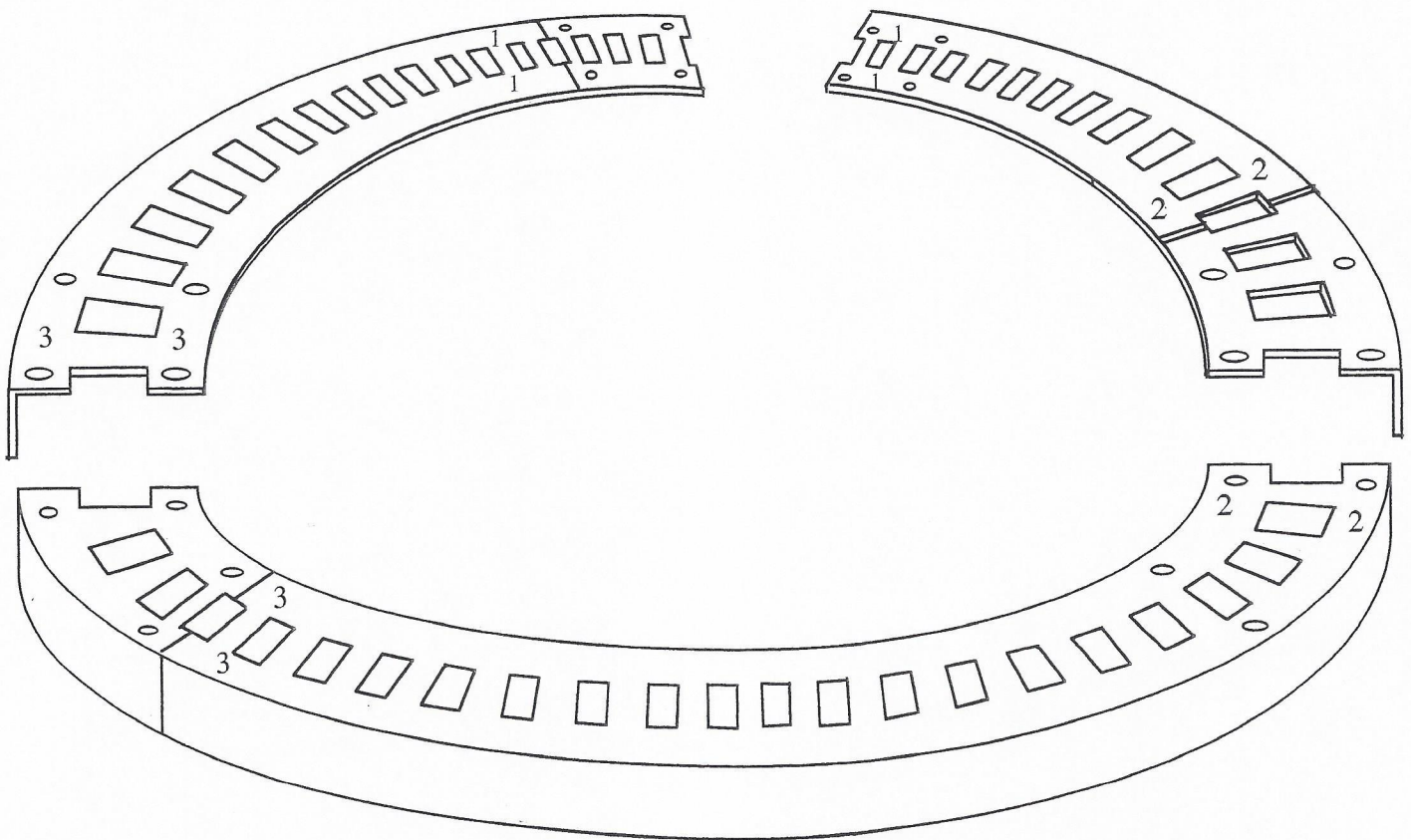


TIP : Drill this hole 5/16" this will give you room for any misalignment

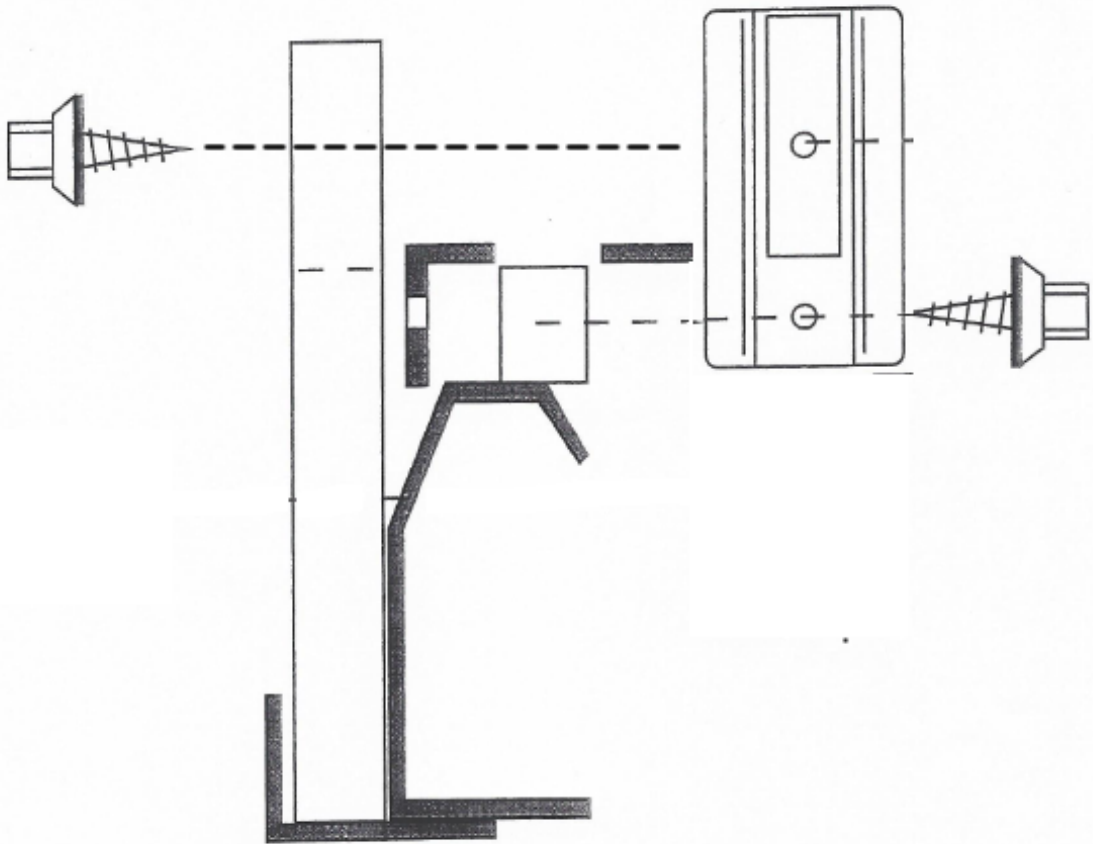
DOMI TRACK

GR 102.2

GEAR RACK SECTIONS

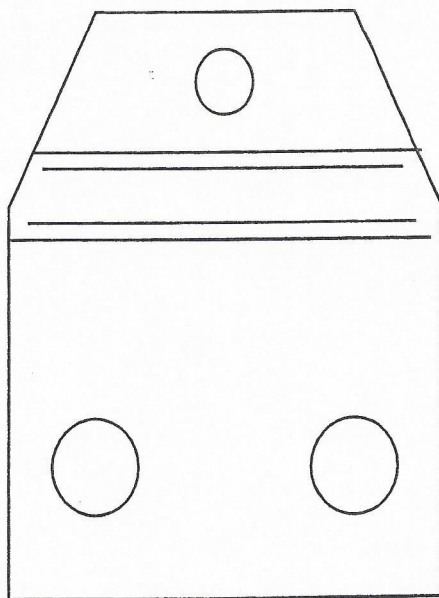


GR 103

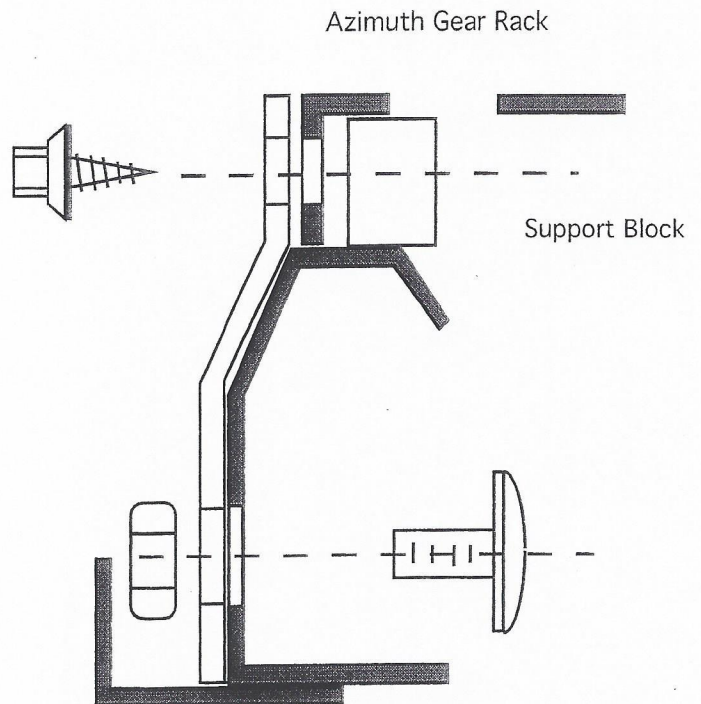


GR 104.1

Mounting Gear Rack Across Aperture

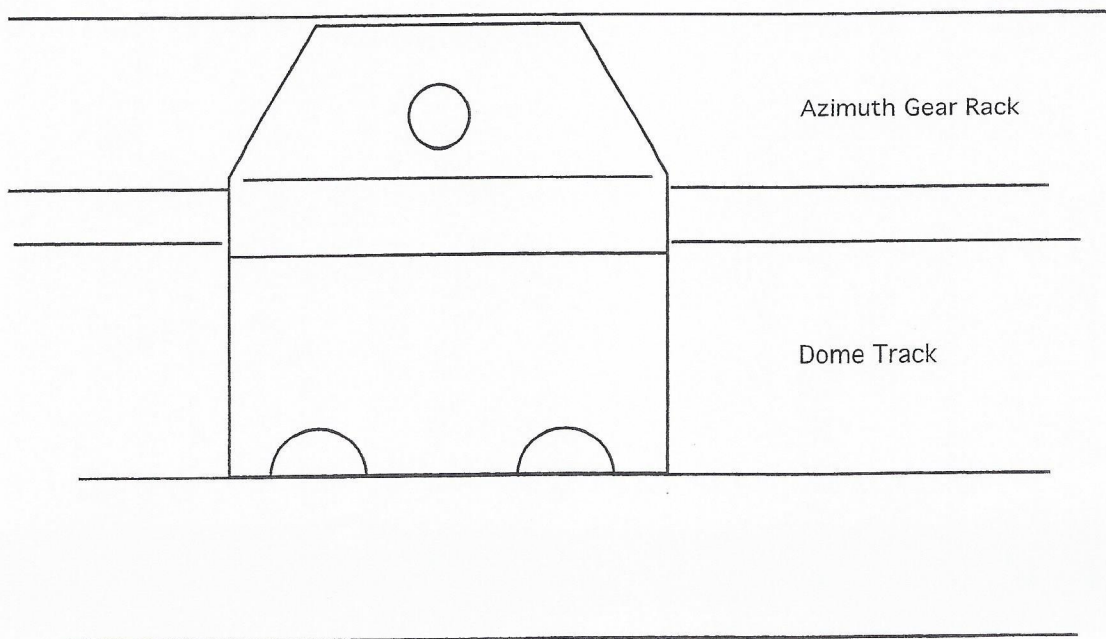


Mounting Bracket



Azimuth Gear Rack

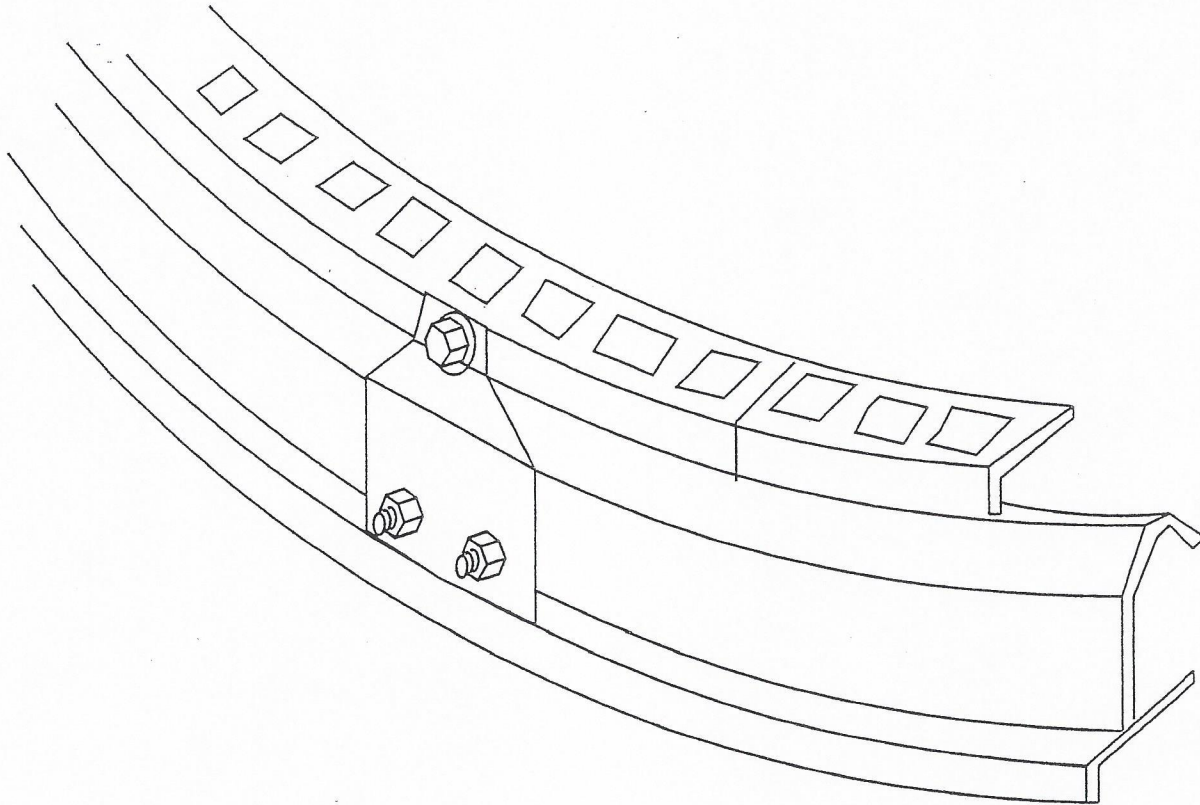
Support Block



Azimuth Gear Rack

Dome Track

The last section is made in the dome aperture.
This is the area you will cut to fit the last section
because it is eadier to cut the section to length.



Secure bracket and gear rack after making this last joint.