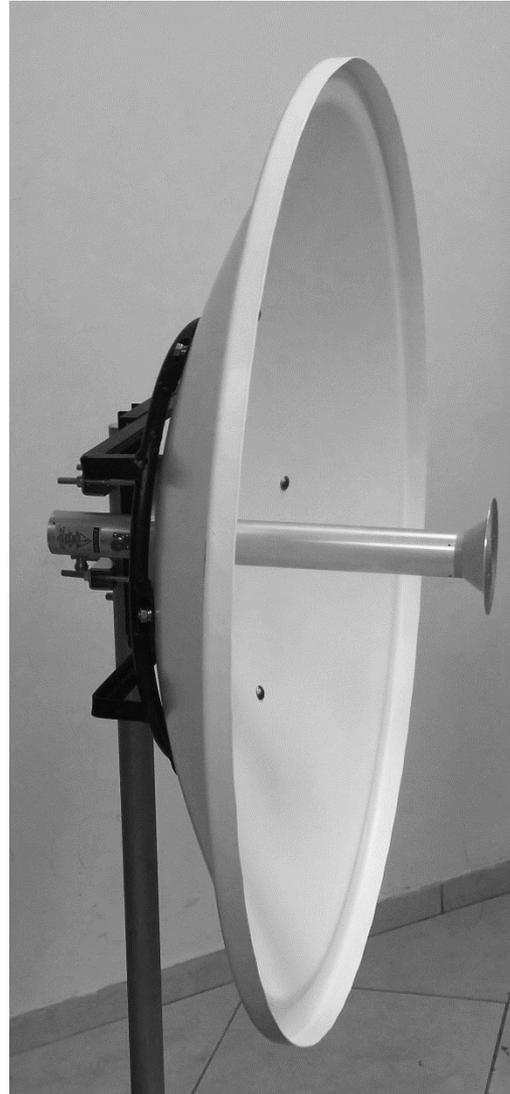


Ø0.9 meter PARABOLIC DISH ANTENNA

MOUNTING INSTRUCTIONS Rev. 01 (Doc # WI-160712)



Delivery Set and Required Tooling List

| Parts List | | |
|------------|---|----------------|
| Item | Description | Location |
| 1 | Kit 1. Attachment of Holder Ring to Dish | Feeder Package |
| 2 | Kit 2. Attachment of Back Flange & Front Ring to Dish | Feeder Package |
| 3 | Kit 3 Mount Kit | Mount Package |
| 4 | Dish | |
| 5 | Holder Ring | |
| 6 | Mount | Mount Package |
| 7 | Feeder | Feeder Package |

Required Tooling List (not supplied)

- 1. Wrench 13**
- 2. Wrench 17**
- 3. Allen Key 5**
- 4. Flat Screwdriver**

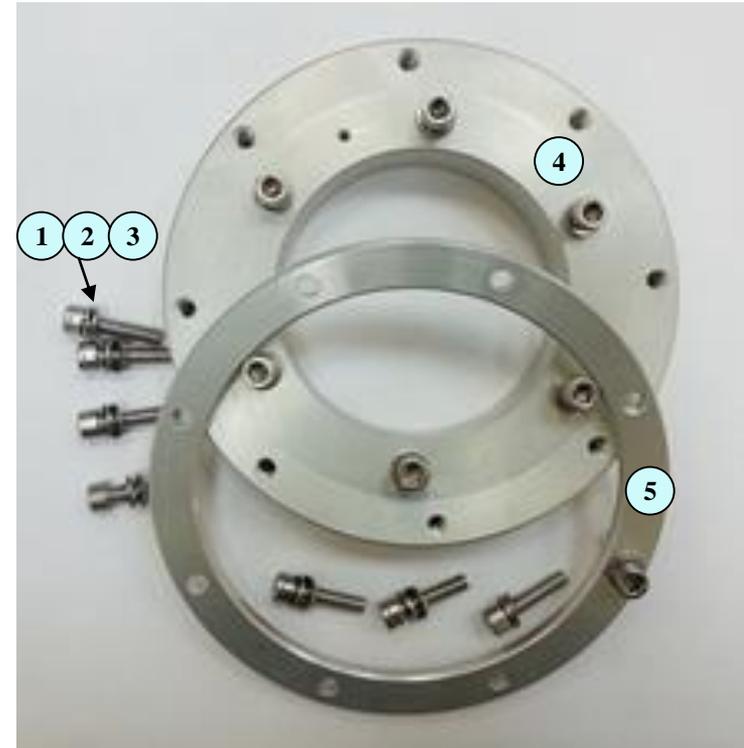
Warning

- Carefully review these instructions before beginning installation.
- Antenna installation should be performed by certified personnel only.
- Do not install the antenna at a wind speed of 20 km/h or more.
- When installing the antenna at a height over two meters personnel must be authorized to carry out work at height.
- When installing the antenna don't touch the electrical live wires.
- Antenna should be mounted on strong stable pole with a diameter 2 inches.
- Antenna installation should performed according to local regulations for such an installation
- MARS Antennas & RF Systems LTD. is not responsible for improper installation and its possible consequences!
- We are permanently working to improve the antenna construction therefore the document image may be differ slightly from the supplied device.

Installation Kits



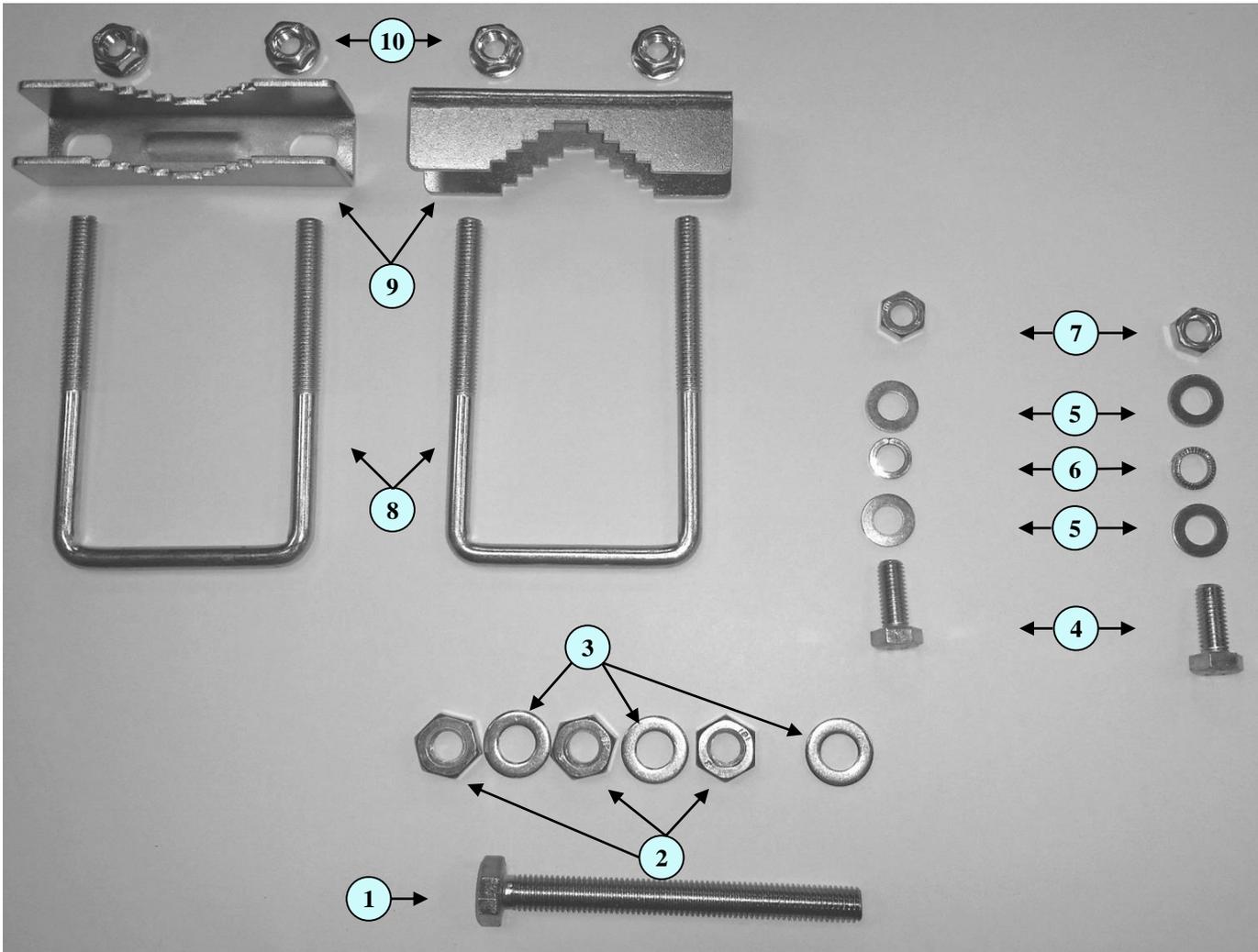
| Pic 1. Kit #1. Holder Ring to Dish | | |
|------------------------------------|------|----------------------------------|
| Item | Qty. | Description |
| 1 | 6 | Screw - Art. 88107, A2, M8x16 |
| 2 | 6 | Flat washer - DIN 125A, A2, M8 |
| 3 | 6 | Spring washer - DIN 127B, A2, M8 |
| 4 | 6 | Nut - DIN 934, A2, M8 |



| Pic 2. Kit 2. Back Flange & Front Ring to Dish | | |
|--|------|------------------------|
| Item | Qty. | Description |
| 1 | 14 | Hex Socket Screw M6x25 |
| 2 | 14 | Plain washer M6 |
| 3 | 14 | Spring washer M6 |
| 4 | 1 | Back Flange |
| 5 | 1 | Front Ring |

Note: All items are supplied in Feeder Assembly

Installation Kits



Pic 3. Kit 3. Elevation Adjusting Screw

| Item | Qty. | Description |
|------|------|---------------------------|
| 1 | 1 | Elevation Adjusting Screw |
| 2 | 1 | Hex Nut |
| 3 | 4 | Flat Washer M10 |
| 4 | 2 | Screw Mount to Hold Ring |
| 5 | 4 | Flat Washer |
| 6 | 2 | Spring Washer |
| 7 | 2 | Hex Nut |
| 8 | 2 | U-bolt |
| 9 | 2 | Clamp |
| 10 | 4 | Hex Nut |

1. Items Arrangement

Very Important:

- The point “Up” in Fig. 1.1 indicates the upper side of the Holder Ring and Dish (antenna) .
- The Pointer (arrow) indicates direction to Upper side of antenna.
- The Reference Hole in the bar placed in upper side of Holder Ring of antenna (Fig 1.1.).
- The line Up – Down of the Holder should be between two adjacent holes for Back Flange (Fig 1.1 Note A).
- The line Up – Down of the Holder should be between two adjacent holes for Holder Ring (Fig 1.1. Note B).

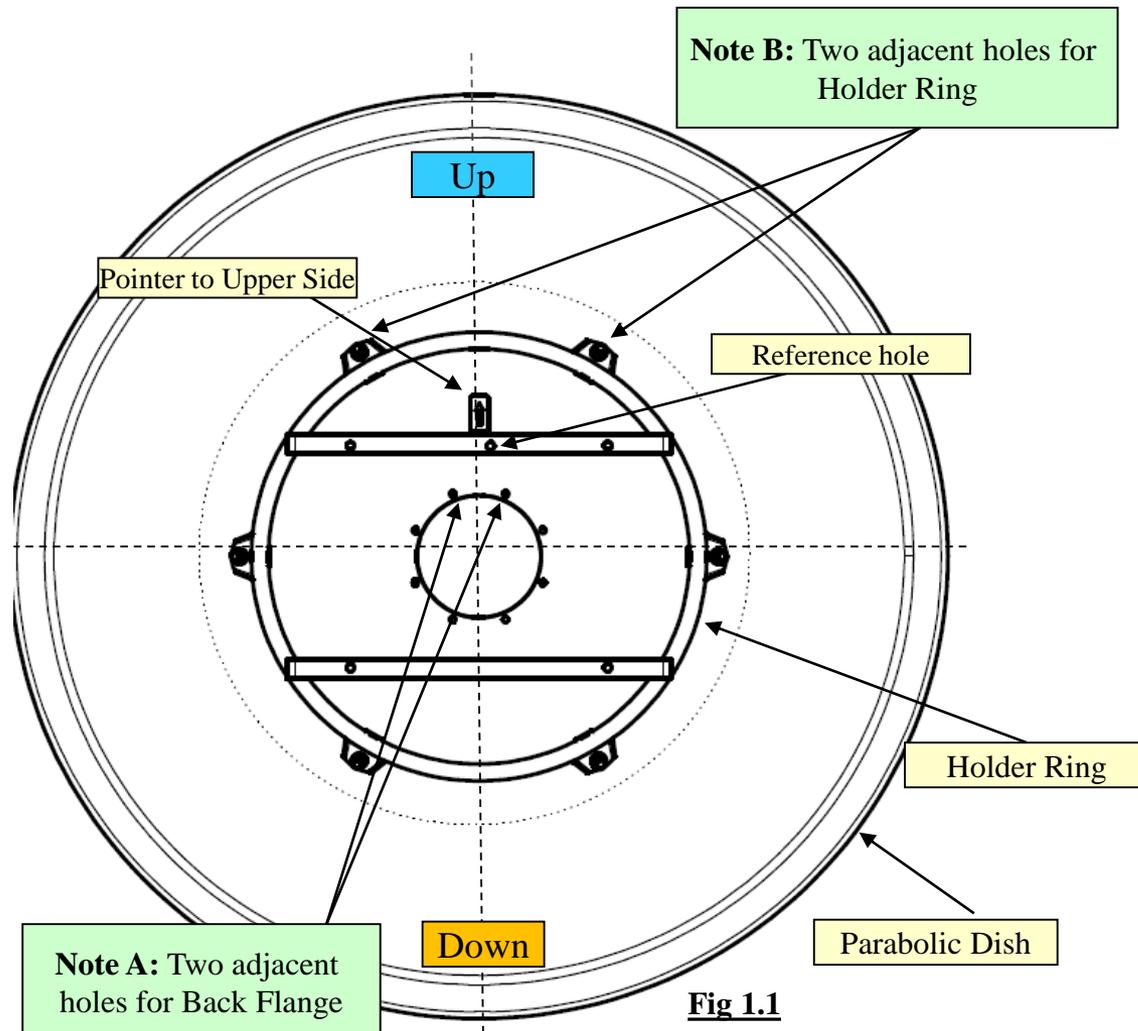


Fig 1.1

2. Attachment of Back Flange and Front Ring to Dish with Kit #2

2.1. Unscrew all screws (Item 1) (if attached to Feeder) and detach Front Ring and Back Flange from the Feeder.

2.2. Align Back Flange with screws holes in the Dish:

The $\text{Ø}2.5$ hole of Back Flange should be positioned upwards (to upper side of antenna) see Fig 2.1 (Front View) and Fig 2.2. (Rear View).

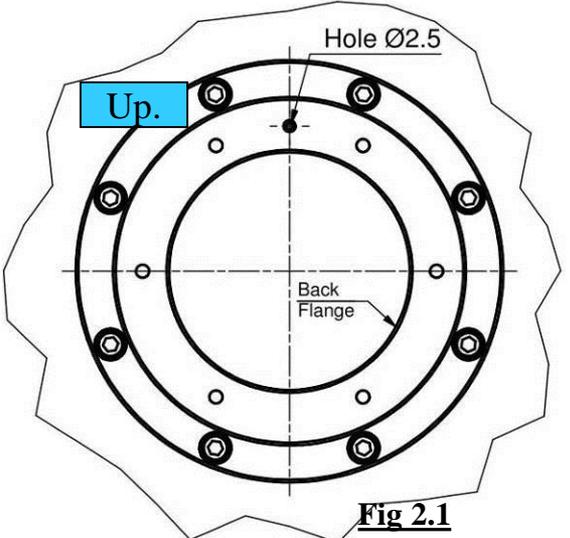


Fig 2.1

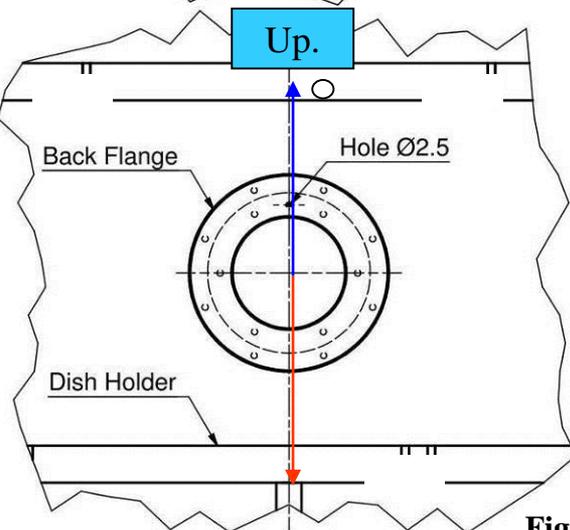


Fig 2.2

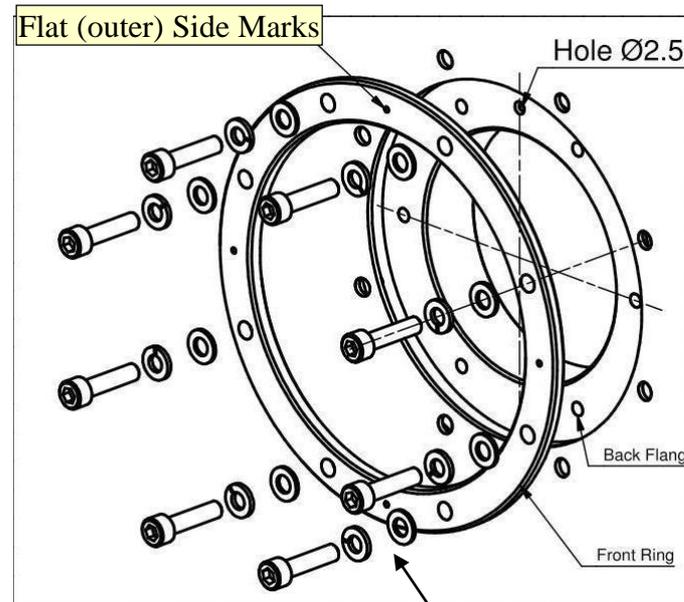


Fig 2.3

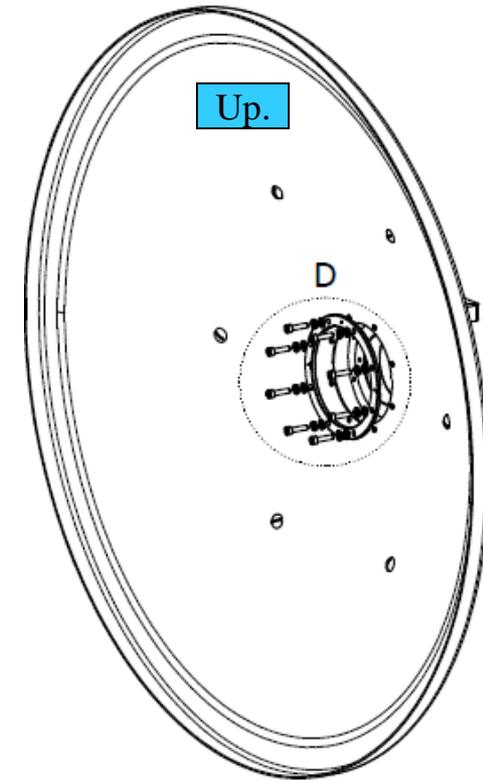


Fig 2.4

2.3. Front Ring has two sides – flat and conical. Flat side is indicated by four marks as shown in Fig 2.3. Put Front Ring with flat side facing outside (conical side to dish).

2.4. Connect Back Flange, Front Ring and Dish with 8 sets of screws and washers from kit #2 as shown in Fig 2.3 and Fig 2.4. Tighten the screws.

(The remaining 6 screws and washers of kit #2 will be used later for feeder connection).

3. Attachment of Mount to Holder Ring with Kit #3

- 3.1. Connect Adjustment Screw with Holder ring Kit #3 (Items 1, 2, 3)
- 3.2. Connect U-Bolts and Clamps with Mount. Kit #3 (Items 8, 9, 10). Fig 3.2, 3.3
- 3.3. Connect Mount with Holder Ring in points A and B with screws, washers and nuts from Kit #3 (Items 4, 5, 6, 7) and in point C with washers and nuts (Items 2, 3). Fig 3.1; Tighten not firmly the Adjustment screw to allow Azimuth adjustment.

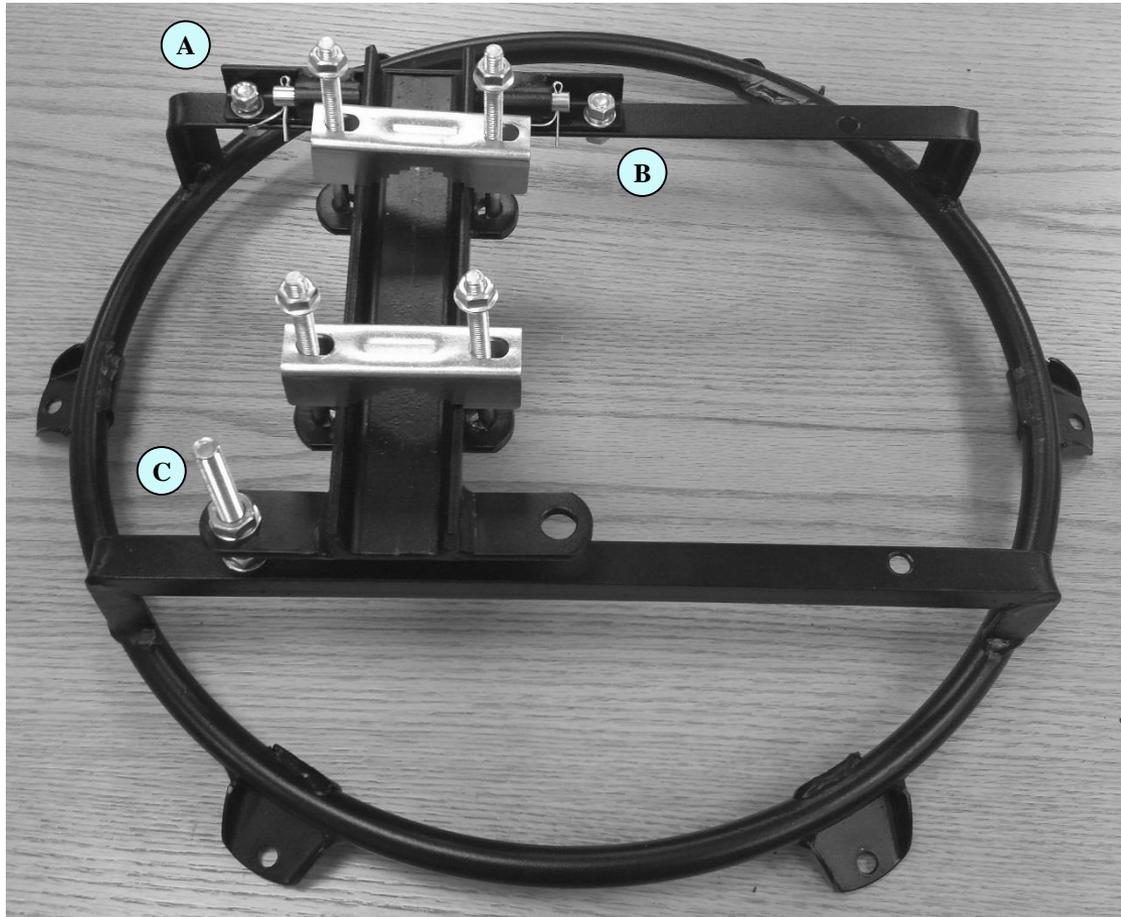
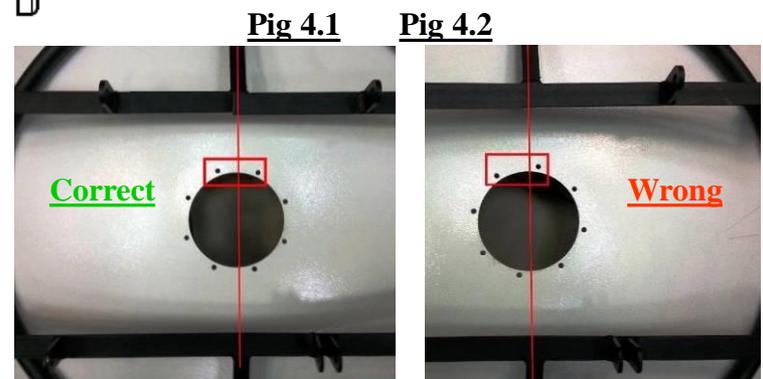
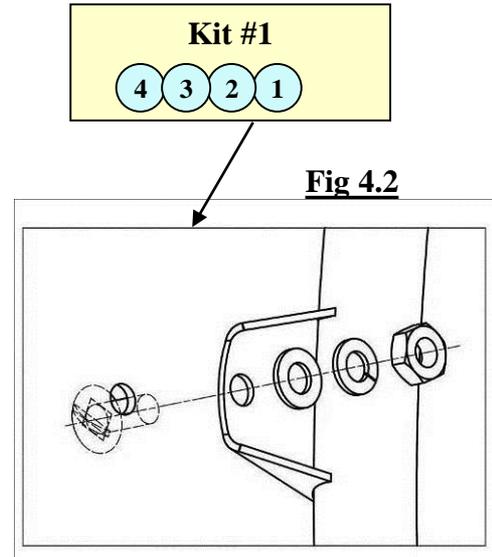
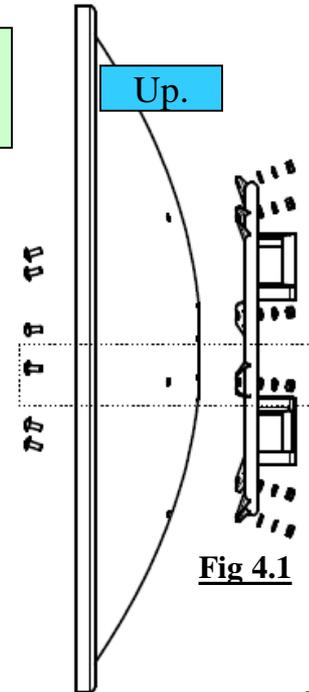
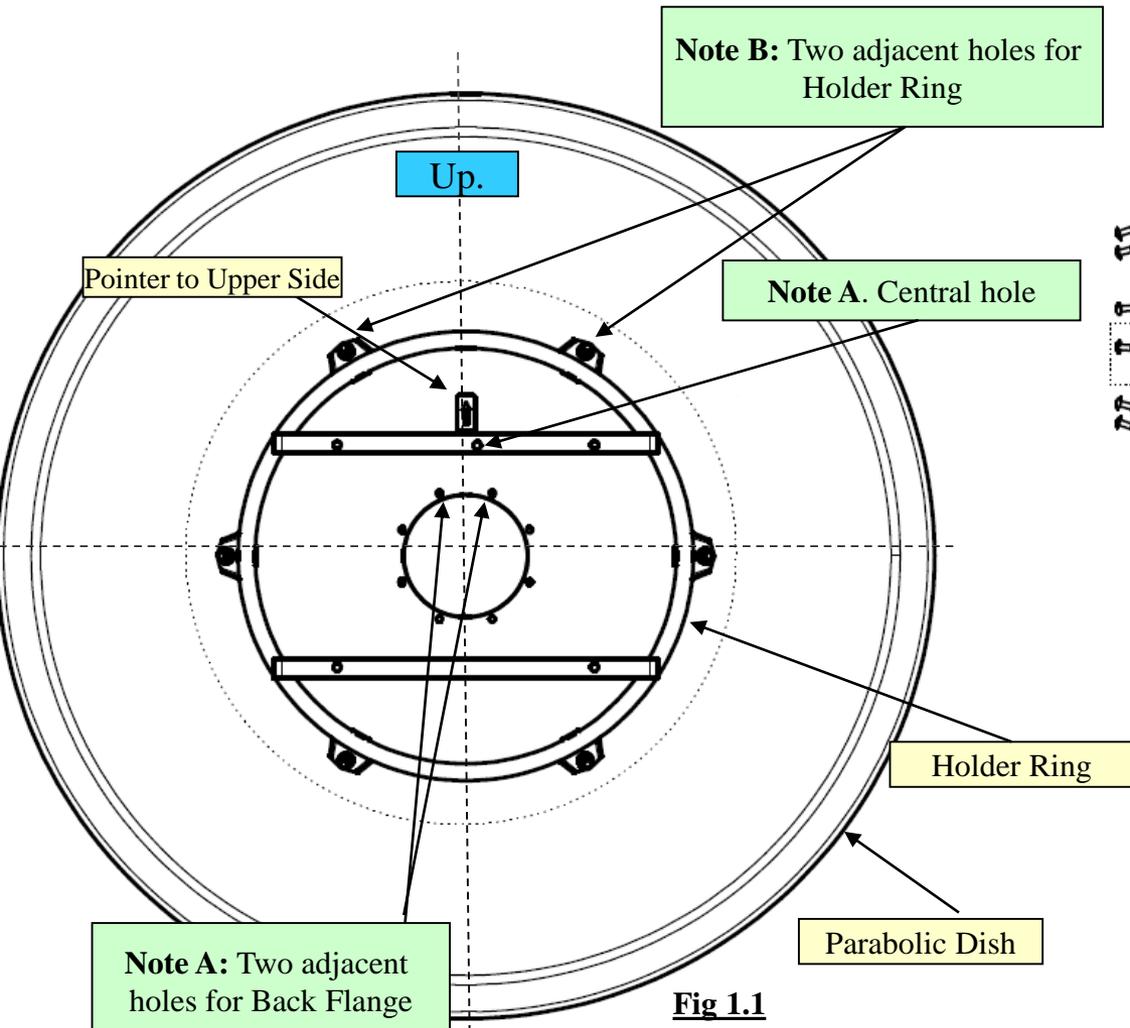


Fig 3.1

4. Attachment of Holder Ring to Dish with Kit #1

4.1 Connect Holder Ring to Mount with screws, washers and nuts from Kit #1 (Items 1, 2, 3, 4). Fig 1.1; Fig 4.1 and 4.2 show correct and wrong Holder Ring adjustment.



5. Attachment of Mount to Pole with Kit #3

5.1. Connect Antenna to Pole with U-Bolts, Clamps with Mount. Kit #3 (Items 8, 9, 10). Fig 5.1



Fig 5.1

6. Feeder to Dish Connection.

1. Align Pin of Screw on Feeder Flange with $\text{Ø}2.5$ hole of Back Flange (see Fig 2.1, 2.2 from section 2 and Fig 6.1 and 6.2).

Pin of Screw Feeder Flange

Align Pin of Screw with $\text{Ø}2.5$ hole

Back Flange

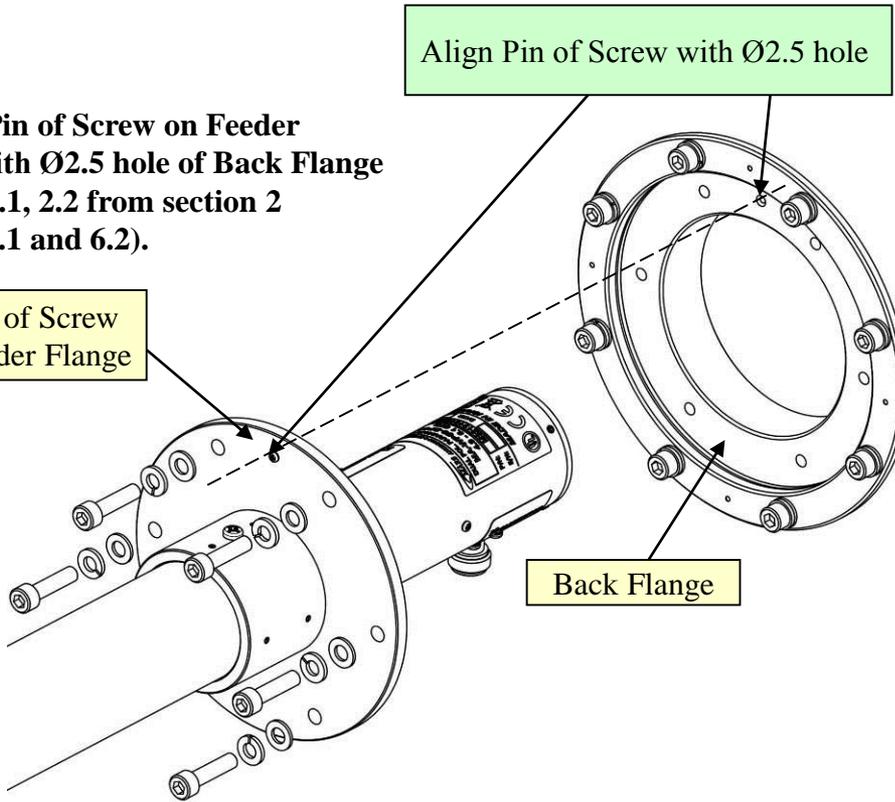


Fig 6.1

2. Insert the Feeder into the hole at the center of the dish and fasten to back Flange. Use the screws and washers from Kit #2 as shows Fig 6.1 - 6.3. Tighten the screws.

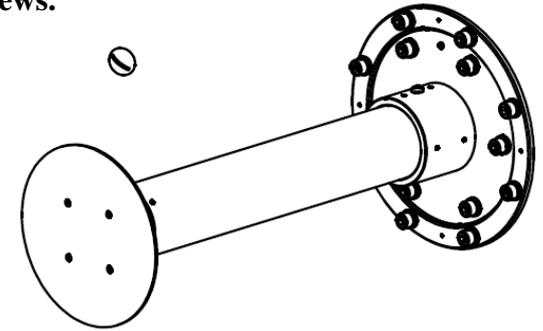


Fig 6.3

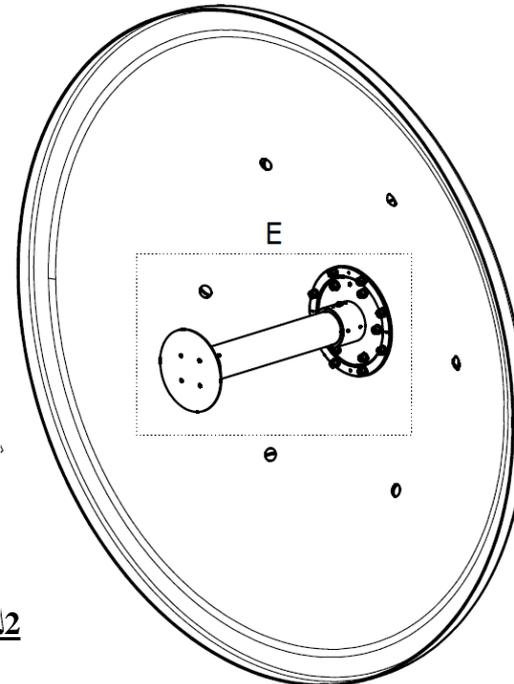
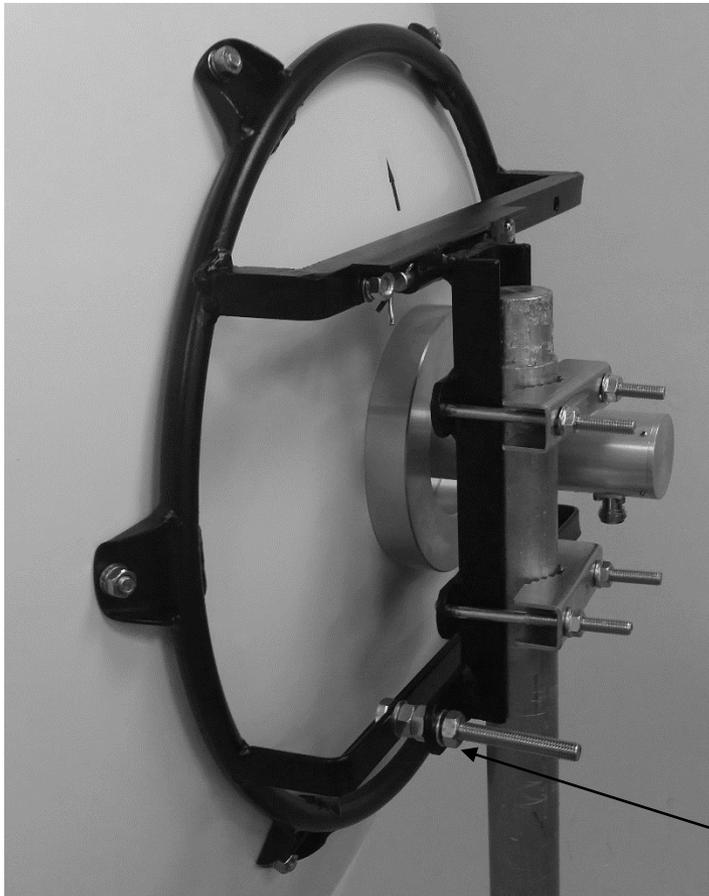


Fig 6.2

7. Elevation Adjusting

7.1 Adjust the antenna in Elevation planes using the adjustment screw.

7.2 Verify that all screws of all nodes are tightened.



Elevation Adjusting Screw
Kit #3

Pig 7.1