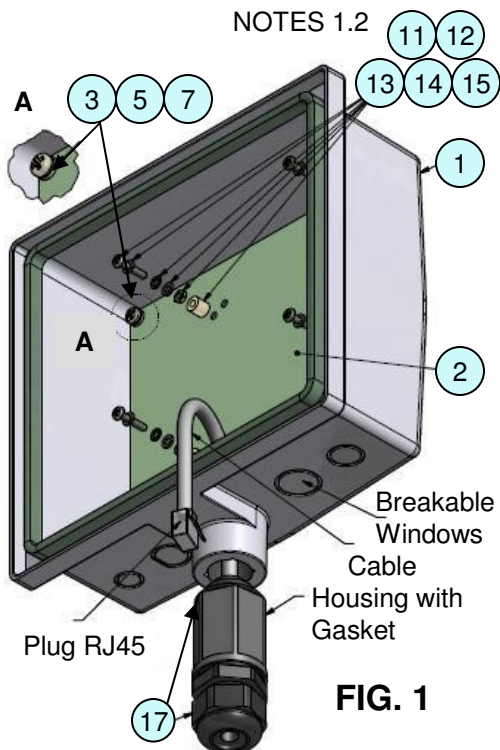


## MK-ES20 Enclosure Mounting Instructions



NOTES 1.2

### 1. FIG. 1.

#### 1.1 Mount Radio to the Base (Item 2).

1.1.1 Use prepared holes 3,2 mm on the Base for Radio (sheet metal) item 2 (or make new holes) to mount Radio.

1.1.2. Use items 11 - 15 to fix the Radio.

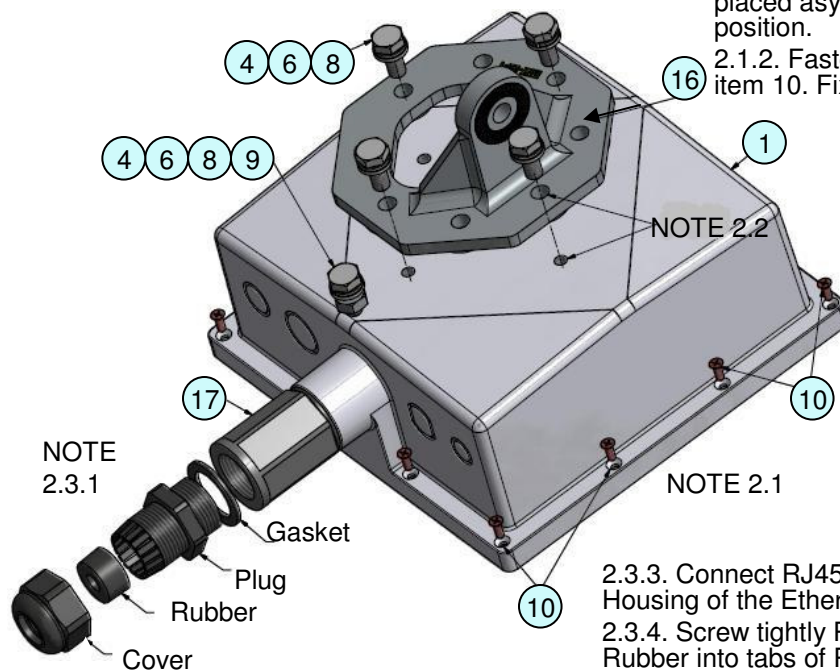
#### 1.2 Mount Base for Radio to Enclosure.

1.2.1. Align Base for Radio item 2 with 4 inside bosses of the Enclosure item 1 as shown.

1.2.2. Fasten Base for Radio with items 3, 5, 7 (see detail 'A').

**FIG. 1**

Part List		
ITEM	QTY	DESCRIPTION
1	1	Enclosure
2	1	Base to Radio
3	4	Plain Washer #6
4	5	Plain Washer #1/4
5	4	Pan Head Screw UNC 6-32 x 1/4"
6	5	Hex Head Screw UNC 1/4-20 x 5/8"
7	4	Spring Washer #6
8	5	Spring Washer #1/4
9	1	Nut UNC 1/4-20
10	12	Flat Head Screw 4-40 UNC x 5/16"
11	4	Spacer DIA.6.5x3.2 h6.4 Brass-Ni
12	4	Pan Head Screw UNC 4-40 x 9/16"
13	8	Plain Washer #4
14	4	Nut UNC 4-40
15	4	Helical Spring Lock Washer #4
16	1	MNT-22-1 (base of MNT-22)
17	1	RJ45 Ethernet conn.system



**FIG. 2**

### 1.3. Connect RJ45 Ethernet system item 17.

1.3.1. Remove Nut (not shown). Don't remove Gasket!

1.3.2. Pass Cable through Enclosure's hole in order to plug RJ45 inside.

1.3.3. Screw tightly Housing of Ethernet system with Gasket into Enclosure's hole in order that the Gasket will be pressed to Enclosure surface.

1.3.4. Connect plug RJ45 to jack RJ45 of Radio (not shown).

### FIG. 2.

#### 2.1. Connect Enclosure (1) to antenna Backplane.

2.1.1 Align mounting holes of the Enclosure item 1 with 12 PEM BSOS440-10 of Antenna's Base (not shown).

**PAY ATTENTION** Mounting holes of the Enclosure are placed asymmetrically to exclude wrong Enclosure's position.

2.1.2. Fasten Enclosure to Antenna with 12 Screws item 10. Fix the Screws with locktite (not supplied).

#### 2.2 Connect of MNT-22 item 16.

2.2.1. Align holes of MNT-22's base with 4 holes 1/4-20 in the Enclosure item 1.

2.2.2. Fix MNT-22's base to the Enclosure with items 4, 6, 8.

2.2.3. Use items 4, 6, 8, 9 for grounding.

2.2.4. Assembly of MNT-22 - see instruction.

#### 2.3. Connect outer Cable.

2.3.1. Remove Cover, Rubber, Plug & Gasket from Housing of Ethernet System item 17 when holding Housing with wrench.

2.3.2. Transmit cable thru all the parts specified in point 2.3.1 & in the same sequence. (Put Rubber on cable using the slit.)

2.3.3. Connect RJ45 plug of cable (not shown) to RJ45 jack inside Housing of the Ethernet System.

2.3.4. Screw tightly Plug with Gasket into Housing. Then insert Rubber into tabs of Plug. Hold cable to prevent its torsion & close Cover tightly until it stops.

### 3. Disconnecting of Outer Cable

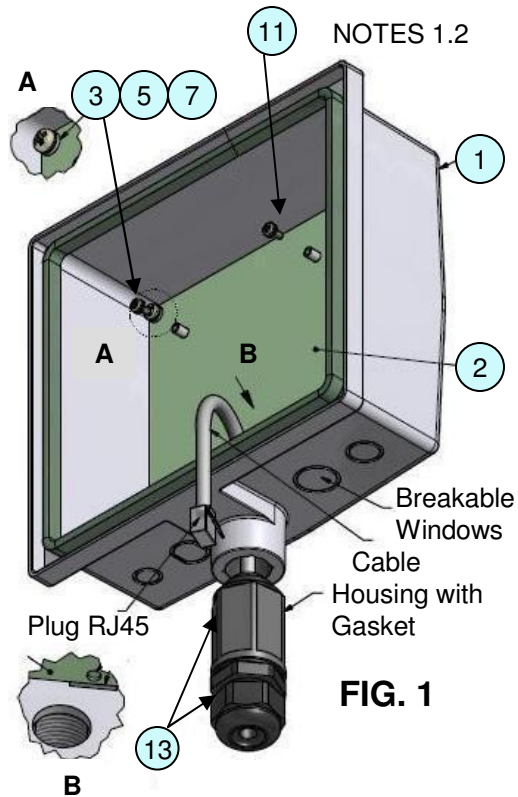
3.1. Hold Housing of the Ethernet System with wrench. Turn Cover off.

Then turn off Plug together with Rubber & Gasket.

3.2. Slide the parts carefully along cable to make free space near Housing.

3.3. Disconnect RJ45 plug of cable from RJ45 jack of the Ethernet System

## MK-ES21 Enclosure Mounting Instructions



**FIG. 1**

Parts List		
ITEM	QTY	DESCRIPTION
1	1	Enclosure
2	1	BASE TO RADIO
3	4	Plain Washer #6
4	5	Plain Washer #1/4
5	4	Pan Head Screw UNC 6-32 x 1/4"
6	5	Hex Head Screw UNC 1/4-20 x 5/8"
7	4	Spring Washer #6
8	5	Spring Washer #1/4
9	1	Nut UNC 1/4-20
10	12	Flat Head Screw 4-40 UNC x 5/16"
11	4	KIT Small: StST Phillips Pan Head Screw 4-40 UNC x 1/4" + 2 Washers
12	1	MNT-22-1 (base of MNT-22)
13	1	RJ45 Ethernet conn.system

NOTES 1.2

### 1. FIG. 1.

#### 1.1 Mount Radio to the Base (Item 2).

1.1.1 Use the Base (sheet metal) with 4 PEMs item 2 to mount Radio.

1.1.2. Use items 11 to fix the Radio.

#### 1.2 Mount Base for Radio to Enclosure.

1.2.1. Align Base for Radio item 2 with 4 inside bosses of the Enclosure item 1 so Base's edge marked with the hole is near hole M20x1.5 of the Enclosure (see detail 'B').

1.2.2. Fasten Base for Radio with items 3, 5, 7 (see detail 'A').

### 1.3. Connect RJ45 Ethernet system item 13.

1.3.1. Remove Nut (not shown). Don't remove Gasket!

1.3.2. Pass Cable through Enclosure's hole in order to plug RJ45 inside.

1.3.3. Screw tightly Housing of Ethernet system with Gasket into Enclosure's hole in order that the Gasket will be pressed to Enclosure surface.

1.3.4. Connect plug RJ45 to jack RJ45 of Radio (not shown).

### FIG. 2.

#### 2.1. Connect Enclosure (1) to antenna Backplane.

2.1.1 Align mounting holes of the Enclosure item 1 with 12 PEM BSOS440-10 of Antenna's Base (not shown).

**PAY ATTENTION** Mounting holes of the Enclosure are placed asymmetrically to exclude wrong Enclosure's position.

2.1.2. Fasten Enclosure to Antenna with 12 Screws item 10. Fix the Screws with locktite (not supplied).

#### 2.2 Connect of MNT-22 item 12.

2.2.1. Align holes of MNT-22's base with 4 holes 1/4-20 in the Enclosure item 1.

2.2.2. Fix MNT-22's base to the Enclosure with items 4, 6, 8.

2.2.3. Use items 4, 6, 8, 9 for grounding.

2.2.4. Assembly of MNT-22 - see instruction.

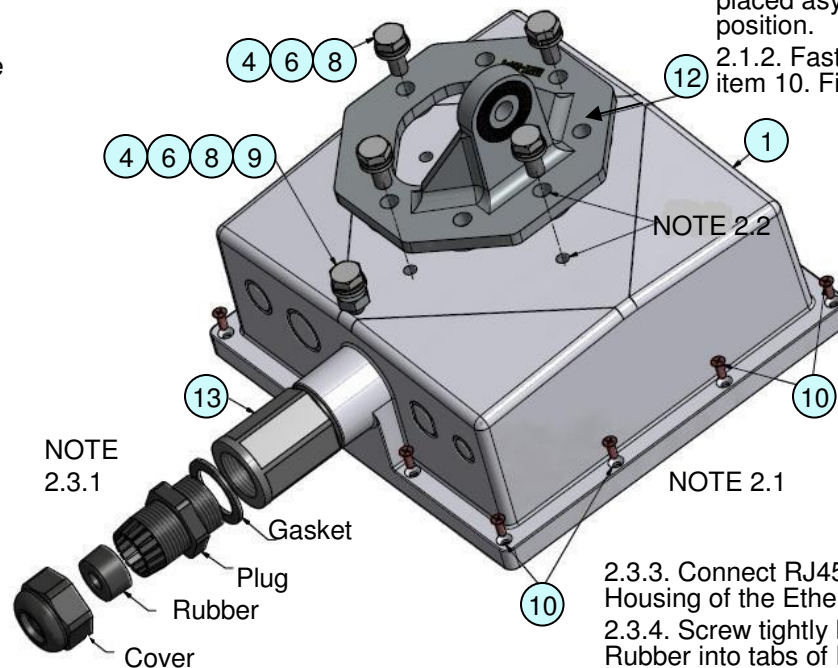
#### 2.3. Connect outer Cable.

2.3.1. Remove Cover, Rubber, Plug & Gasket from Housing of Ethernet System item 13 when holding Housing with wrench.

2.3.2. Transmit cable thru all the parts specified in point 2.3.1 & in the same sequence. (Put Rubber on cable using the slit.)

2.3.3. Connect RJ45 plug of cable (not shown) to RJ45 jack inside Housing of the Ethernet System.

2.3.4. Screw tightly Plug with Gasket into Housing. Then insert Rubber into tabs of Plug. Hold cable to prevent its torsion & close Cover tightly until it stops.



**FIG. 2**

### 3. Disconnecting of Outer Cable

3.1. Hold Housing of the Ethernet System with wrench. Turn Cover off.

Then turn off Plug together with Rubber & Gasket.

3.2. Slide the parts carefully along cable to make free space near Housing.

3.3. Disconnect RJ45 plug of cable from RJ45 jack of the Ethernet System

NOTE 2.3.1

NOTE 2.1

NOTE 2.2