# Installation Guide

Rev.	Description	EC number
01	Initial release	
Α	Release to Production	ECO-01281
В	Updating hardware	ECO-01350
С	Updating instructions	ECO-01440
D	Adding QR code to installation video	ECO-02267
Е	Adding reference to DX10FRO260-20/26	ECO-02539

# Tri-Sector Pole-Mount Antenna Bracket

Instructions for Pole-Mount Antennas

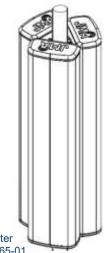
P/N 81900527-01



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3.5" Pole Diameter with MX04FFP465-01 antennas shown

Instructions for Pole-Mount Antennas



This is the installation guide for the Tri-Sector Pole-Mount Antenna Bracket. Below are the parts included with each kit.

Bracket kit needed per antenna model				
Antenna	Length	Antenna QTY	Kit	Kit QTY
DX10FRO260-20/26	2 ft	3	91900339-01	1
MX04FFP465-01	4 ft	3	91900339-01	1
MX04FFP665-01	6 ft	3	91900339-01	1
MX04FFP865-01	8 ft	3	91900339-02	1

Table 1: Bracket kit use



Installation Video

91900339-01		
Item #	Description	Qty. in kit
1	Top pole bracket	3
2	Bottom pole bracket	3
3	5/16-18 hex nut	26
4	5/16 flat washer	14
5	5/16 lock washer	14
6	5/16 x 0.4in spacer	14
7	5/16-18 x 0.7in bolt	12
8	5/16-18 x 1.4in bolt	12
9	5/16-18 x 2.3in bolt	12
10	5/16-18 x 3.2in bolt	12
11	5/16-18 x 4.1in bolt	12
12	5/16-18 x 5.0in bolt	12
NOTE: 3	rh 14	

Table 2: 91900339-01 bracket kit

> **NOTE:** These item numbers refer to *Figures* 6, 7, 11, 12, and 15.

91900339-02		
Item #	Description	Qty. in kit
1	Top pole bracket	3
2	Bottom pole bracket	3
3	5/16-18 hex nut	38
4	5/16 flat washer	20
5	5/16 lock washer	20
6	5/16 x 0.4in spacer	20
7	5/16-18 x 0.7in bolt	18
8	5/16-18 x 1.4in bolt	18
9	5/16-18 x 2.3in bolt	18
10	5/16-18 x 3.2in bolt	18
11	5/16-18 x 4.1in bolt	18
12	5/16-18 x 5.0in bolt	18
13	Middle pole bracket	3
NOTE: These item numbers refer to Figures		

6, 7, 11, 12, 13, 14, and 15.

Table 3: 91900339-02 bracket kit

#### Other key details:

Top, bottom, and middle (8' only) antenna brackets are preinstalled on antennas.

Instructions for Pole-Mount Antennas



#### **Bracket details**

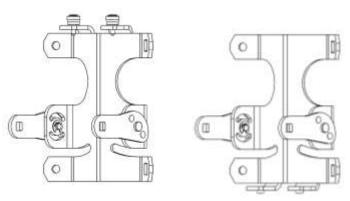


Figure 1: Item 1 - Top pole bracket

Figure 2: Item 2 - Bottom pole bracket

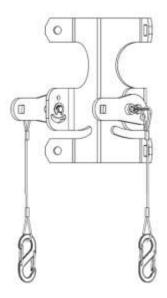
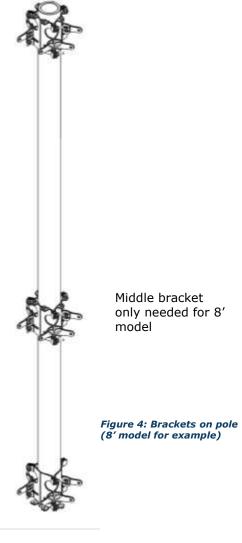


Figure 3: Item 13 - Middle pole bracket





Instructions for Pole-Mount Antennas



#### **Tools and hardware**

Tool List		
Tool	Hardware	Torque
Torx Driver, T25	10-32 captive screw	2.5 lbf·ft
Socket, 1/2 in.	5/16-18 Hex Nut	13 lbf·ft
Level		
Plumb line		
Tape measure		
Marker		

Table 4: Tool list

Hardware selection			
Pole diameter [in.]	Bolt item no.	Bolt length [in.]	Spacer item no.
3.5≤ø<4	8	1.4	N/A
4≤ø<4.5	8	1.4	6
4.5≤ø<5	9	2.3	N/A
5≤ø<5.5	9	2.3	6
5.5≤ø<6	10	3.2	N/A
6≤ø<6.5	10	3.2	6
6.5≤ø<7	11	4.1	N/A
7≤ø<7.5	11	4.1	6
7.5≤ø<8	12	5.2	N/A
8	12	5.2	6

Table 5: Hardware selection 6

#### Bolts, chosen by pole diameter. See Table 5.

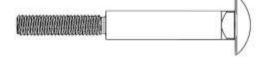
Item 8: 5/16-18 x 1.4in bolt



Item 9: 5/16-18 x 2.3in bolt



Item 10: 5/16-18 x 3.2in bolt



Item 11: 5/16-18 x 4.1in bolt



Item 12: 5/16-18 x 5.2in bolt



Figure 5: Bolts

Instructions for Pole-Mount Antennas



#### **Select hardware**

1. Using *Table 5* and *Figure 5*, select the correct hardware for the pole diameter.

#### Attach top brackets to pole

- 2. Install three top brackets around pole with selected hardware as shown in *Figure 6* (example 3.5" pole diameter) and *Figure 7* (example 4" pole diameter).
- 3. Ensure assembly is level and torque each hex nut to 13 lbf·ft.

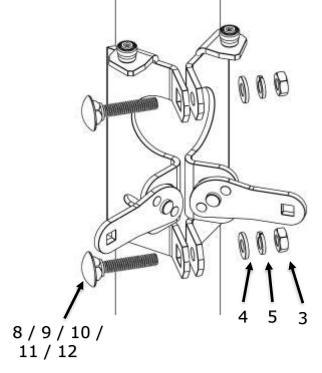


Figure 6: Attach top brackets to pole - 3.5" diameter shown as example

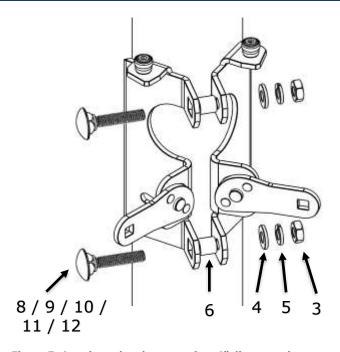
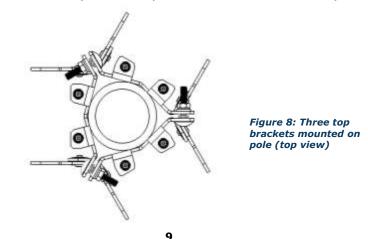


Figure 7: Attach top brackets to pole - 4" diameter shown as example



Instructions for Pole-Mount Antennas



#### Attach bottom brackets to pole

4. Using *Figures 9* and *10* and *Table 6*, measure "C" in. from top edge of top bracket to top edge of bottom bracket, and mark placement for bottom brackets along the circumference of the pole.

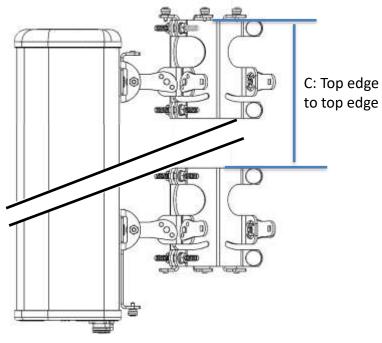


Figure 9: Attach top brackets to pole - 3.5" diameter shown as example

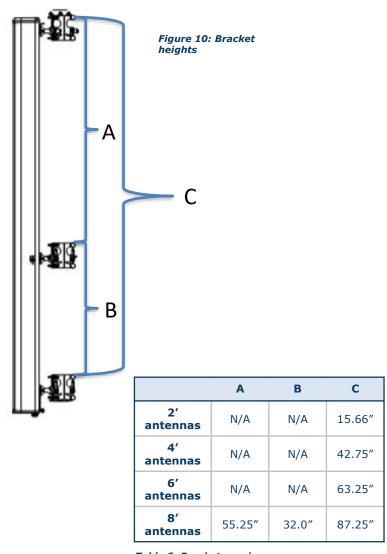


Table 6: Bracket spacing

Instructions for Pole-Mount Antennas



#### Attach bottom brackets to pole, continued

- 5. Install three bottom brackets around the pole with selected hardware. See *Figure 11* (example 3.5" pole diameter) *and Figure 12* (example 4" pole diameter) Align the top edge of the bottom brackets to the mark made in Step 4, *Figures 9* and *10*.
- Using plumb line, ensure top brackets and bottom brackets are aligned.
- 7. Ensure bottom brackets are level and torque each hex nut to 13 lbf·ft.

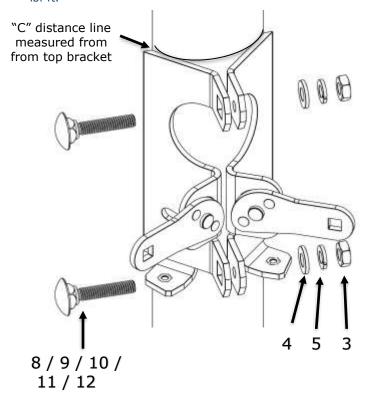


Figure 11: Attach bottom brackets to pole – 3.5" diameter shown as example

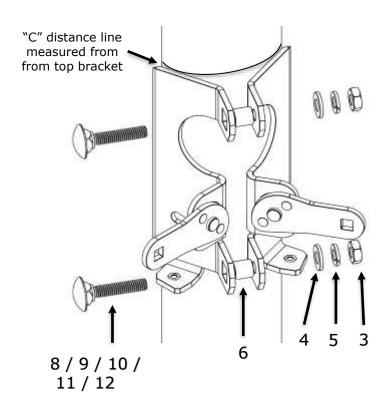


Figure 12: Attach bottom brackets to pole – 4.0" diameter shown as example

13

Instructions for Pole-Mount Antennas



#### Install middle brackets to pole (8' antennas only)

- 8. Measure "A" in. from top edge of top bracket and mark along the circumference of the pole. See *Figure 10* and *Table 6*.
- 9. Install three middle brackets around the pole with selected hardware. See *Figure 13* (example 3.5" pole diameter) and *Figure 14* (example 4" pole diameter). Align the top edge of the middle brackets to the mark made in Step 8.
- 10. Using plumb line, ensure top, middle, and bottom brackets are aligned.
- 11. Ensure middle brackets are level and torque each hex nut to 13 lbf-ft.

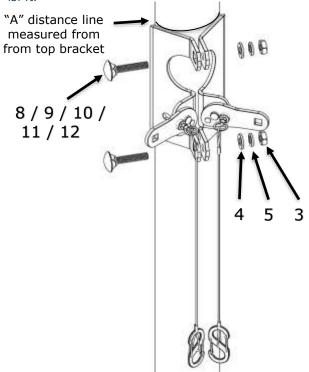


Figure 13: Attach middle brackets to pole – 3.5" diameter shown as example

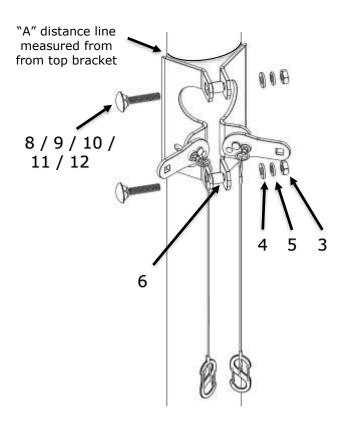


Figure 14: Attach middle brackets to pole – 4.0" diameter shown as example 15

Instructions for Pole-Mount Antennas



#### Mounting antennas to pole

- 12. Line up antenna brackets with the corresponding pole brackets with links in the extended position. See *Figure 15* below.
- 13. Install 0.7" bolts, item 7, and hex nuts, item 3, on the top antennato-pole bracket attachment points. Install each hex nut until 1 to 2 threads of the bolt extend past the nut. Do not tighten enough to restrict the motion of the links.
- 14. Repeat Step 13 with the bottom antenna-to-pole bracket attachment points.
- 15. See "8' antenna additional steps" if installing an 8' antenna.

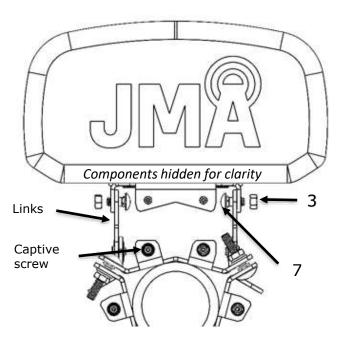


Figure 15: Mounting antenna to pole - 3.5" diameter shown as example

#### 8' antenna additional steps

- a. Repeat Step 13 with the middle antenna-to-pole bracket attachment points.
- b. Clasp each S carabiner to corresponding loop on the sides of the antenna. See *Figure 16*.

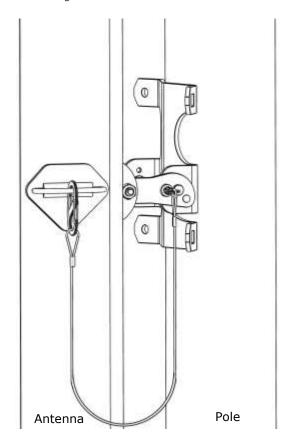


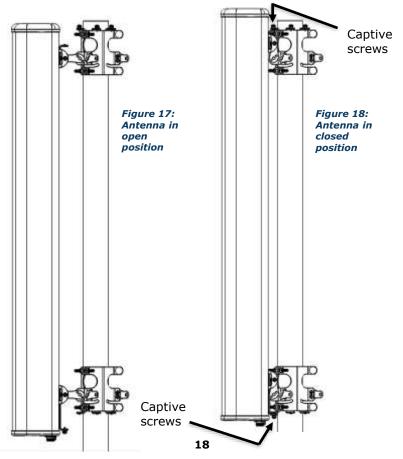
Figure 16: Clasping S carabiner

Instructions for Pole-Mount Antennas



#### Mounting antennas to pole, continued

- 16. Antenna is in open position. See *Figure 17*. Lift up on antenna so that it moves into the closed position. See *Figure 18*.
- 17. While holding the antenna in the closed position, tighten top captive screws (which come preinstalled on bracket) by hand. Repeat for the bottom captive screws (which come preinstalled on antenna).
- 18. Torque all captive screws to 2.5 lbf·ft with the T25 Torx bit.
- 19. Repeat Steps 12-18 with the remaining two antennas.



#### Releasing the brackets before removing the antenna

- 1. While holding the antenna in the upright position, unscrew the bottom captive screws, then the top captive screws.
- For an 8' antenna, simultaneously pull the wire cables on each side to release the pins that keep the antenna in the closed position. See Figure 19.

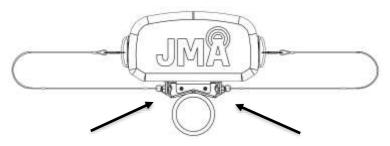


Figure 19: Pulling the wire cables to release

3. Move the antenna down into the open position. See *Figure 17*. While holding the antenna, remove hex nuts, item 3, and 0.7" bolts, item 7. Remove the antenna.