

**P040-0080 Revision F, May 2025**

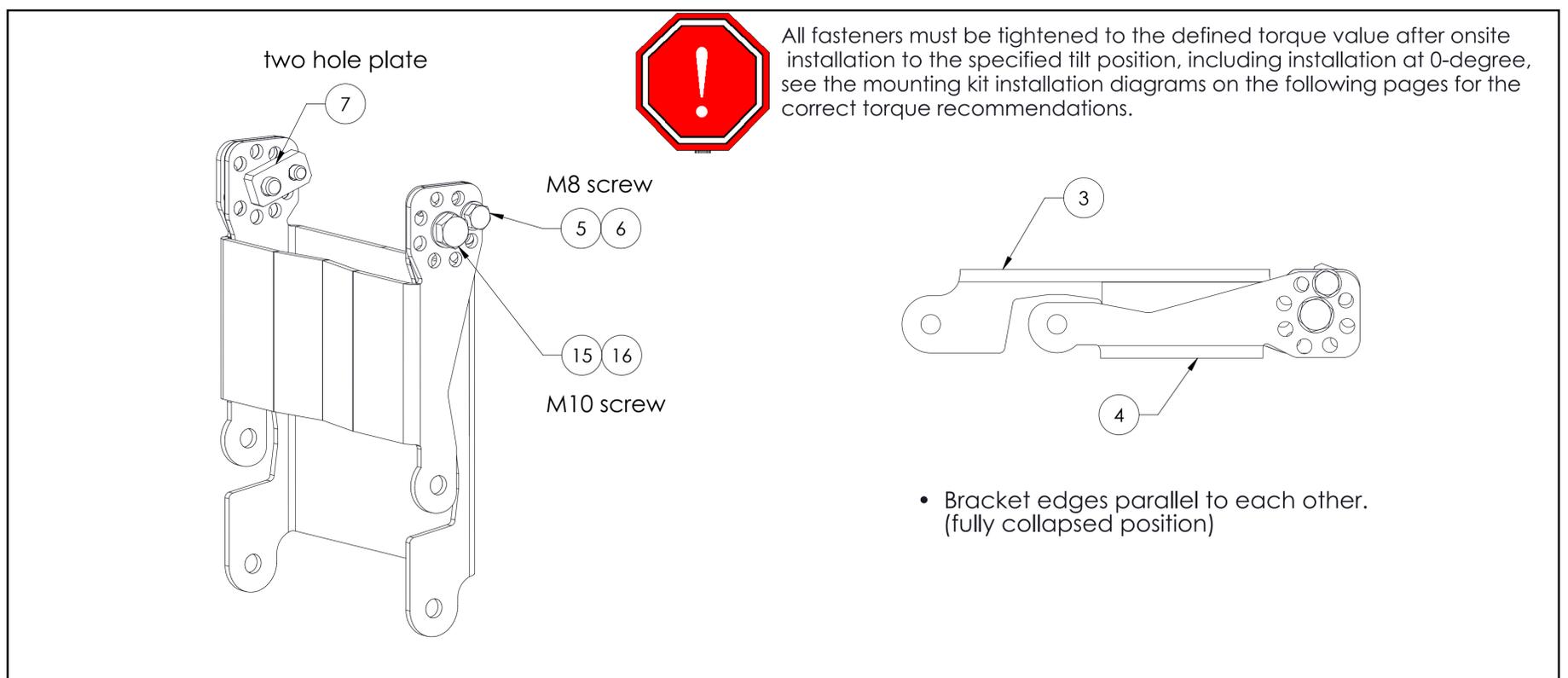
## Mounting Kits For Wide Panel Antennas

BSA-DT-34 & BSAMNT-F/-2F/-3F: Mounting systems for cylindrical pipe installations (60-115 mm pipe diameter) for heavy duty applications.

This document explains how to install BSA-DT-34 downtilt kit, when antenna is mounted using fixed tilt kit i.e. BSAMNT-F/-2F/-3F. The antenna mechanical tilt cannot be adjusted if BSAMNT-F/-2F/-3F is used without BSA-DT-34.

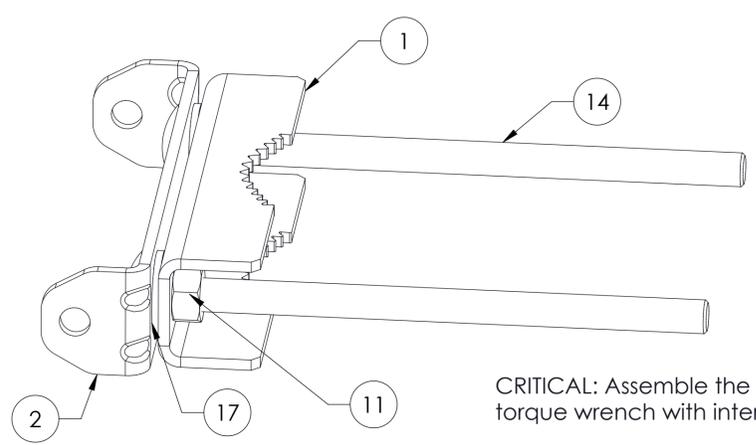
ITEM NO.	DESCRIPTION	BSAMNT-F/-2F QUANTITY	BSAMNT-3F	BSA-DT-34 QUANTITY
1	PIPECLAMP BRACKET	2	3	-
2	BRACKET	2	3	-
3	NOTCHED BRACKET	-	-	1
4	BRACKET	-	-	1
5	M8X25 SCREW	-	-	2
6	M8 WSHR	-	-	2
7	PLATE, TWO HOLES	-	-	2
8	M10 NUT	8	12	4
9	M10 FLAT WASHER	4	6	2
10	M10X40 SCREW	4	6	2
11	M12 NUT	12	18	-
12	M12 FLAT WASHER	4	6	-
13	M12 LOCK WASHER	4	6	-
14	CARRIAGE BOLT	4	6	-
15	M10X25 SCREW	-	-	2
16	M10 WASHER	-	-	2
17	M16 FLAT WASHER	4	6	-
18	ISOLATOR	4	6	-
19	PIPECLAMP BRACKET	2	3	-
20	CUSHION	-	-	2

### Part Lists



**Pre-assembly of Downtilt Brackets by Kit Vendor  
(Not applicable for BSAMNT-F/-2F/-3F)**

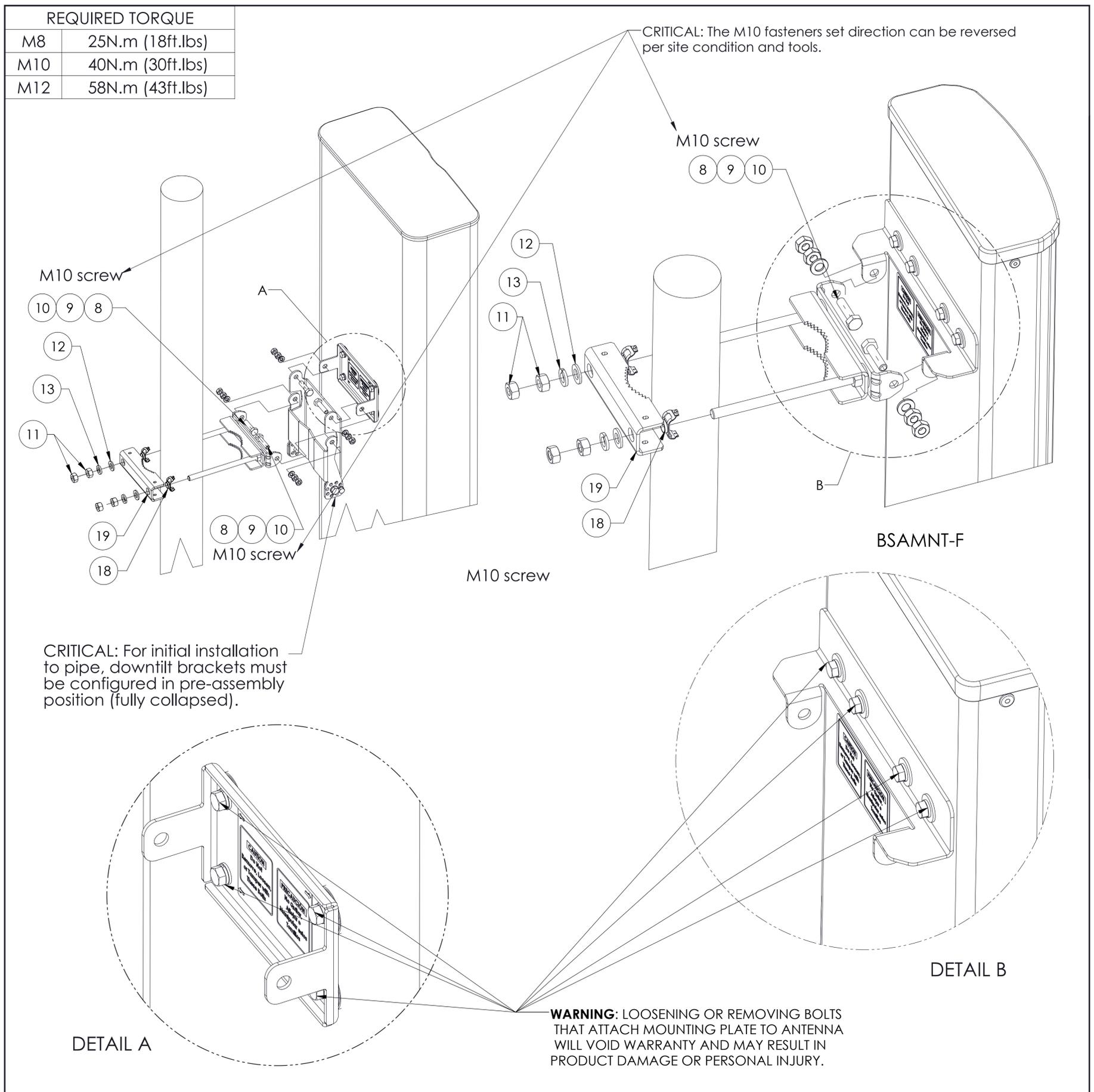
REQUIRED TORQUE	
M12	58N.m (43ft.lbs)



**CRITICAL:** Assemble the M12 nuts manually first and then tighten by torque wrench with interchangeable ring head.

## Pre-assembly of Pipe Bracket by Field Installer (BSAMNT-F/-2F QTY 2 EA) & (BSAMNT-3F QTY 3 EA)

REQUIRED TORQUE	
M8	25N.m (18ft.lbs)
M10	40N.m (30ft.lbs)
M12	58N.m (43ft.lbs)

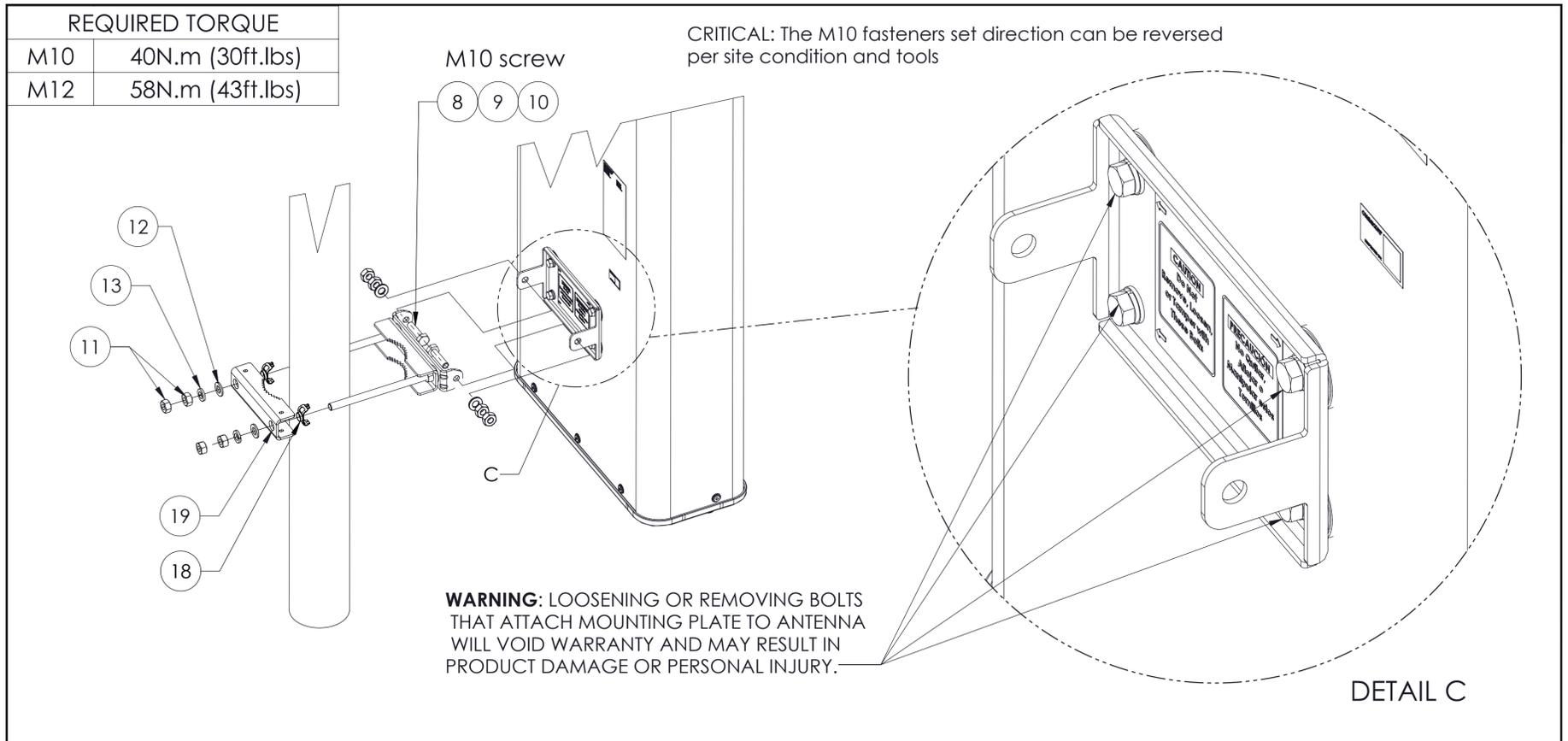


**CRITICAL:** The M10 fasteners set direction can be reversed per site condition and tools.

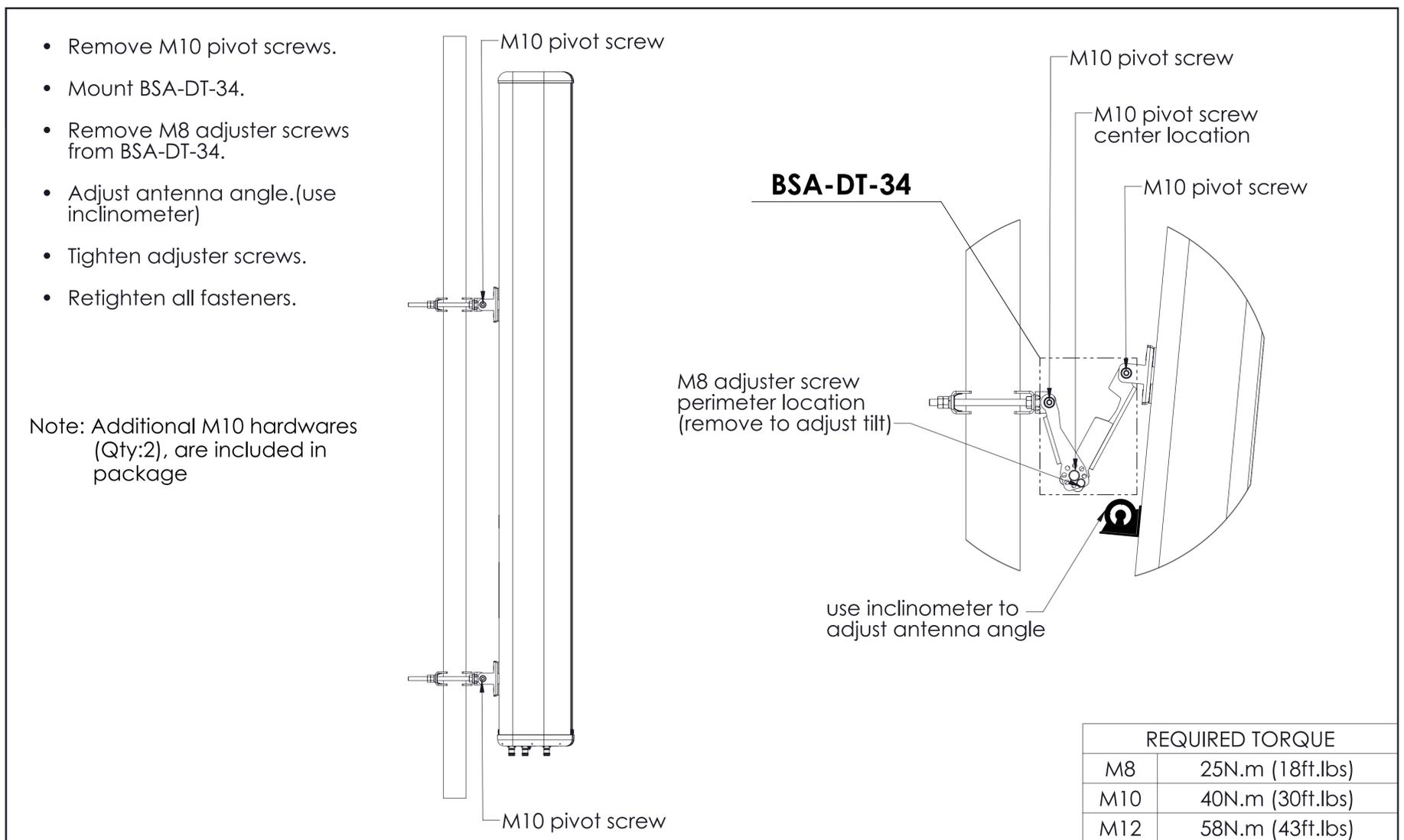
**CRITICAL:** For initial installation to pipe, downtilt brackets must be configured in pre-assembly position (fully collapsed).

**WARNING:** LOOSENING OR REMOVING BOLTS THAT ATTACH MOUNTING PLATE TO ANTENNA WILL VOID WARRANTY AND MAY RESULT IN PRODUCT DAMAGE OR PERSONAL INJURY.

## Downtilt Kit Installation



### Bottom Mount Installation for BSAMNT-F/-2F/-3F



### Adjusting Antenna Tilt - 2 POINT MOUNT (Installation of BSA-DT-34 along with BSAMNT-F/-2F)

CONFIGURATION	QTY OF BSA-DT-34
2 POINT MOUNT	1
3 POINT MOUNT	2

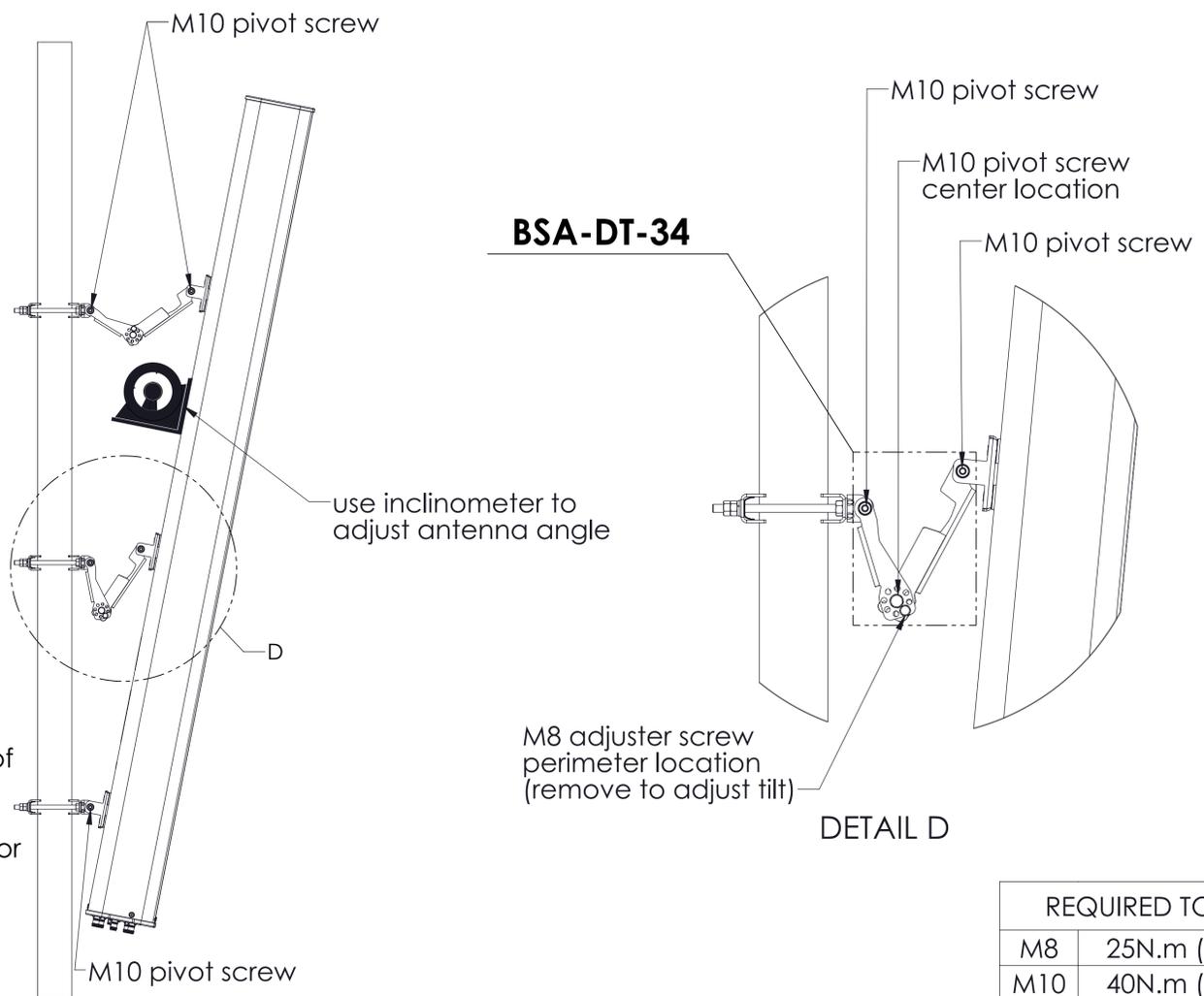
- Remove M10 pivot screws.
- Mount BSA-DT-34.
- Remove M8 adjuster screws from BSA-DT-34.
- Adjust antenna angle.(use inclinometer)
- Tighten adjuster screws.
- Retighten all fasteners.

**WARNING:**

- ALL THREE BRACKETS MUST BE ATTACHED DURING THE ANTENNA INSTALLATION 3 POINT MOUNT ANTENNAS AS DEFINED ON THE ANTENNA DATA SHEET.

**Note:**

- For 3 Point Mount, Use 2 Qty of BSA-DT-34.
- Follow same assembly steps for mounting both BSA-DT-34



### Adjusting Antenna Tilt - 3 POINT MOUNT (Installation of BSA-DT-34 (QTY 2) along with BSAMNT-3F)

#### Remote Electrical Tilt Connection



The AISG connector fitted to the antenna is designed to accept any AISG compliant cable assembly, Andrew recommends hand tightening AISG mating connector only. Applied torque to the connector shall not exceed 1.5N\*m.

#### RF Cable Connection



The female RF connectors fitted to the antenna are designed to fit jumper cables with standard related male RF connector. Tighten the RF connector coupling according to torque specification in antenna label, if the RF connectors are tightened beyond the recommend torque, the RF connection to the antenna may be damaged.

#### SAFETY NOTICE

The installation, maintenance, or removal of an antenna requires qualified, experienced personnel. Andrew installation instructions are written for such installation personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment.

Andrew disclaims any liability or responsibility for the results of improper or unsafe installation practices.

It is recommended that transmit power be turned off when the field installation is performed. Follow all applicable safety precautions as shown on this page.



Do not install near power lines. Power lines, telephone lines, and guy wires look the same. Assume any wire or line can electrocute you.



Do not install on a wet or windy day or when lightning or thunder is in the area. Do not use metal ladder.



Wear shoes with rubber soles and heels. Wear protective clothing including a long-sleeved shirt and rubber gloves.