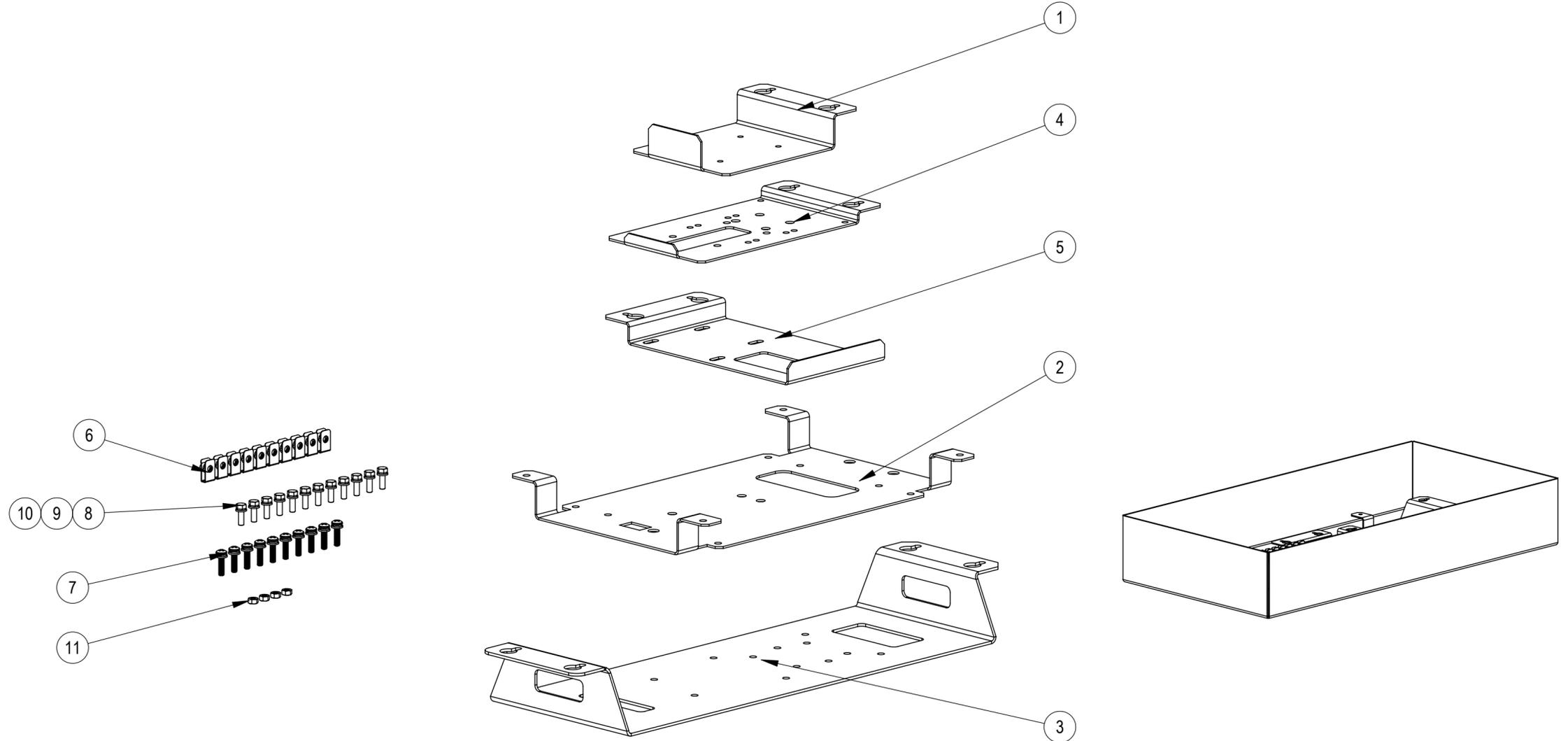


- 1.0 GENERAL NOTES
 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X.X]
 1.2 FEATURES CRITICAL TO QUALITY ARE INDICATED IN ROUNDED BOX (XX)
 1.3 3D DIGITAL FILES ARE FOR REFERENCE. IN CASE OF CONFLICT FOLLOW PDF DRAWING
- 2.0 DESIGN NOTES
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 4.0 TEST
- 5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET ANDREW REQUIREMENTS PER DOCUMENT IS-PL-3005
- 5.2 BAG AND INDIVIDUALLY TAG ALL HARDWARE AND PLACE IN SHIPPING BOX WITH BRACKETS FOR CUSTOMER INSTALLATION.
- 5.3 THIS PRINTED DOCUMENT TO BE PLACED INSIDE SHIPPING BOX FOR CUSTOMER INSTALLATION

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	ZL1057 24JUN25	WQ1001 50103540AMO



COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES;
 INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	NOTE
1	MTM1221-4002-BR	MOUNTING BRACKET, 6304/DELTA2.0/CC1600	1	
2	MTM1221-4003-BR	MOUNTING BRACKET, DIPELXER	1	
3	MTM1221-4007-BR	MOUNTING BRACKET, SAMSUNG	1	
4	MTM1160-1161-BR	BRACKET AWHHF HANGER RIGHT PB20GA	1	
5	MTM1160-1163-BR	BRACKET SAM 8 & 9 RF4402 RHT PB20GA	1	
6	460143456	CLIP NUT, M6, 316 SST	10	5.2
7	100117-4	FA, SEMS, PH, XRES, M6X25, SST, PASS	10	5.2
8	100534-214	SCR, HCS, HEX, M6X20, SST, PASS	12	5.2
9	100522-104	WSHR, LK, SPLT, M6, SST, PASS	12	5.2
10	100521-86	WSHR, FLAT, M6, 6.4X12X1.6, SST, PASS	12	5.2
11	100526-25	NUTS, HEX, M6, SST, PASS	4	5.2

DENSITY		lbs/in ³
MASS	7.54	lbs
VOLUME	227.23	in ³
SURFACE AREA	3931.05	in ²
HEIGHT	6.00[152.4]	
LENGTH	36.00[914.4]	
WIDTH	18.00[457.2]	

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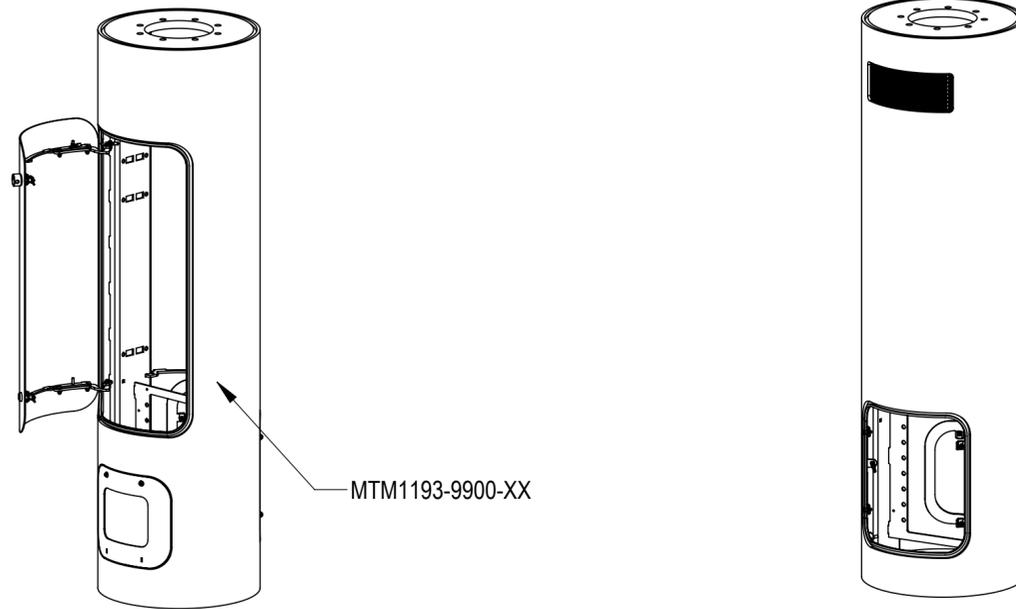


ANDREW® an Amphenol company

TOLERANCES		SAP MATERIAL MASTER	
1 PLACE .X[X] ± 0.2[6.3]	3 PLACE .XXX[X] ± 0.060[1.5]	MTM1193-9900-AMK-S	
2 PLACE .XX[X] ± 0.12[3.0]	ANGLES ± 2°		
FINISH		MATERIAL	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994	NAME	DATE	TITLE
	CE ZL1057	08MAY25	KIT SAM INSTALL - PB20 72" TMT RAD EXT
	RW ZL1057	08/07/2025	
	AD WQ1001	08/08/2025	
	RE DM1121	08/08/2025	
ECN 50103540AMO			
SCALE	DOCUMENT NO.	MTM1193-9900-AMK-S	
1:8			
SIZE	Auth Group	INSL	MODEL
C			VERSION
			STATUS
00	RE	A	00
DRAWING		SHEET	
VERSION	STATUS	REVISION	REVISION
00	RE	A	A
			1 OF 13

SAMSUNG EQUIPMENT INSTALLATION CONFIGURATION LIST

CONFIGURATION	SHEET NO.	EQUIP.1	QTY	EQUIP.2	QTY	EQUIP.3	QTY
S1	5	RF4437D	1	DELTA 2.0KW	1	QUAD DIPLEXER SDX1926Q-43	1
S2	6	RF4437D	1	ABB CC1600	1	QUAD DIPLEXER SDX1926Q-43	1
S3	7	RF4442D	1	DELTA 2.0KW	1	QUAD DIPLEXER SDX1926Q-43	1
S4	8	RF4442D	1	ABB CC1600	1	QUAD DIPLEXER SDX1926Q-43	1
S5	9	RT8808-77A	1	DELTA 2.0KW	1	QUAD DIPLEXER SDX1926Q-43	1
S6	10	RT8808-77A	1	ABB CC1600	1	QUAD DIPLEXER SDX1926Q-43	1
S7	11	RT4463-48A+RT2201-46A	1	DELTA 2.0KW	1		
S7A	12	RT4463-48A+RT2201-46A	1	ABB CC1600	1		
S8	13	RF4402D-D1A	1	DELTA 2.0KW	1		
S8A	14	RF4402D-D1A	1	ABB CC1600	1		
S9	15	RT4463-48A+RF4402D-D1A	1	DELTA 2.0KW	1		
S9A	16	RT4463-48A+RF4402D-D1A	1	ABB CC1600	1		
S10	17	RF4439D	1	DELTA 2.0KW	1		
S10A	18	RF4439D	1	ABB CC1600	1		
S11	19	RF4440D	1	DELTA 2.0KW	1		
S11A	20	RF4440D	1	ABB CC1600	1		
S12	21	RF4461D	1	DELTA 2.0KW	1		
S12A	22	RF4461D	1	ABB CC1600	1		



FRONT VIEW

REAR VIEW

ESTABLISH SAMSUNG CONFIGURATION FROM ABOVE TABLE TO INSTALL DESIRED SAMSUNG RADIOS IN THE PB20
 SEE SHEET 3 & 4 FOR DETAILED SECURING OF RADIOS & DIPLEXERS TO BRACKETS.
 SEE SPECIFIC SHEET NUMBER FOR FURTHER INSTALLATION DETAILS.

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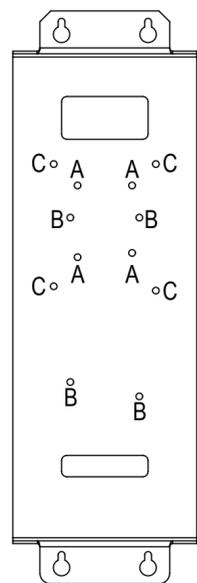
TITLE
KIT SAM INSTALL - PB20 72" TMT RAD EXT

SIZE C	SCALE 1:12	DOCUMENT NO. MTM1193-9900-AMK-S
DRAWING		SHEET
VERSION 00	STATUS RE	REVISION A
		2 OF 13

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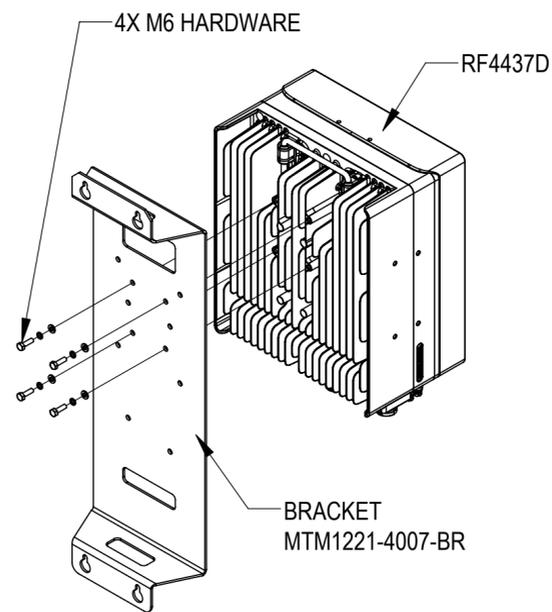
EQUIPMENT MOUNTING INSTALLATION

TORQUE ALL TO SPEC



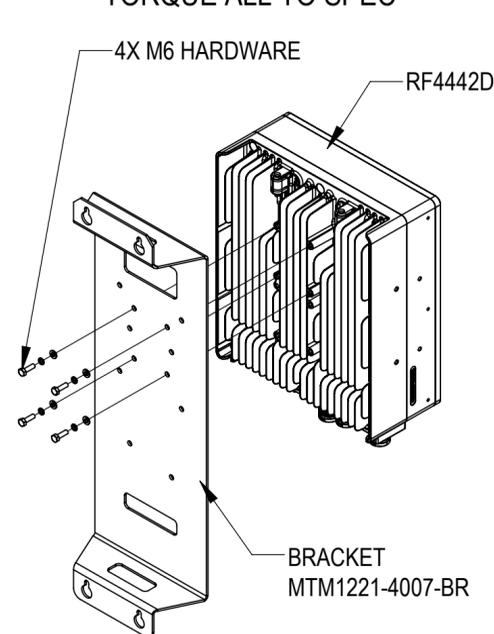
RADIO INSTALLATION MTM1221-4007-BR

"A": RF4437D + RF4442D + RT2201-46A
 "B": RT8808-77A + RT4402-D1A
 "C": RF4439D + RF4440D + RF4461D



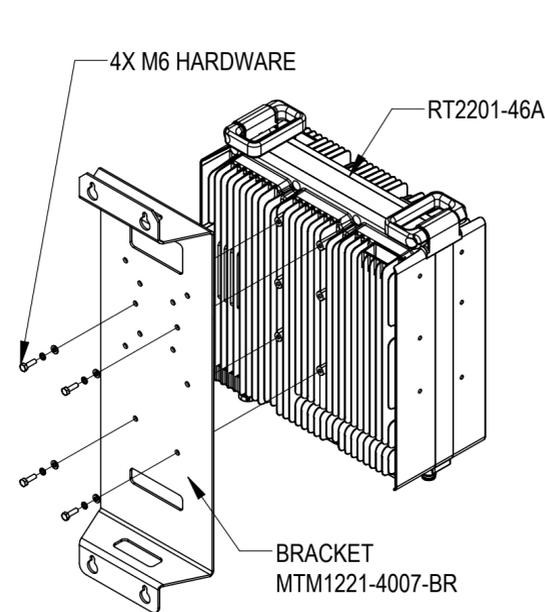
SAM RF4437D:

INSTALL THE SAM RF4437D TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



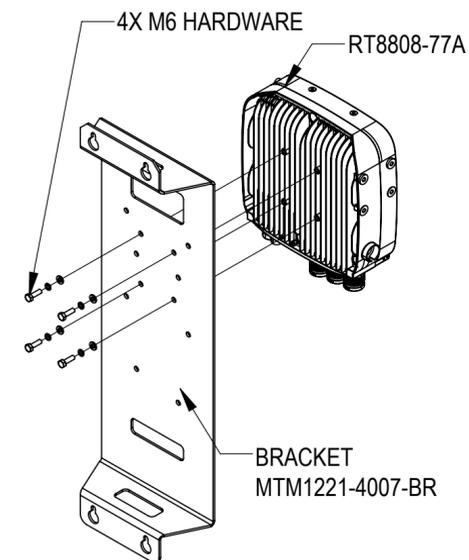
SAM RF4442D:

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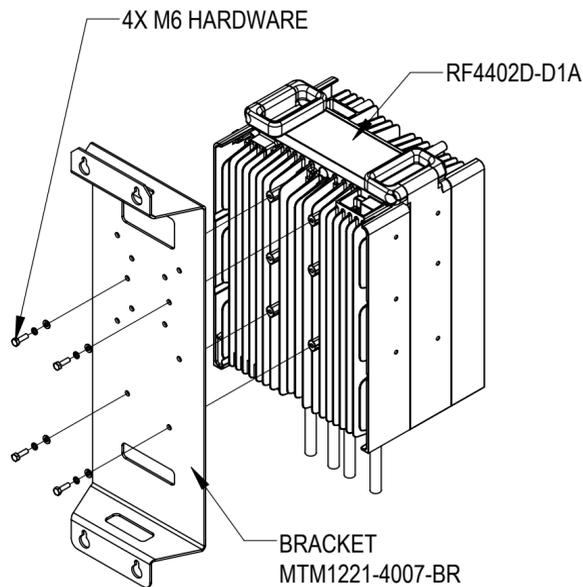
SAM RT2201-46A:

INSTALL THE SAM RT2201-46A TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



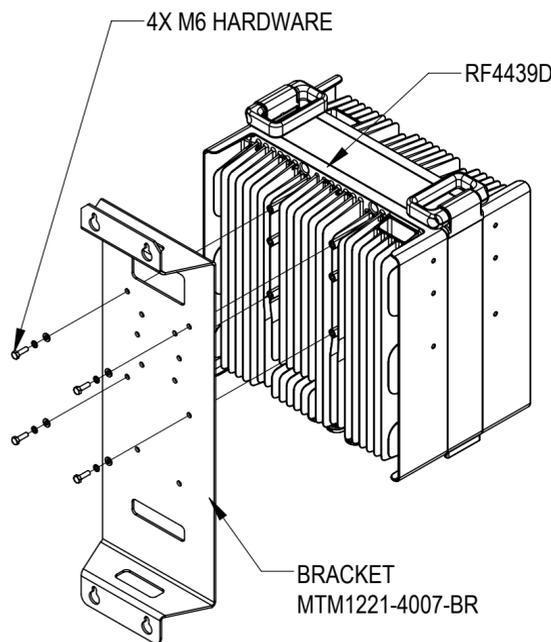
SAM RT8808-77A:

INSTALL THE SAM RT8808-77A TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



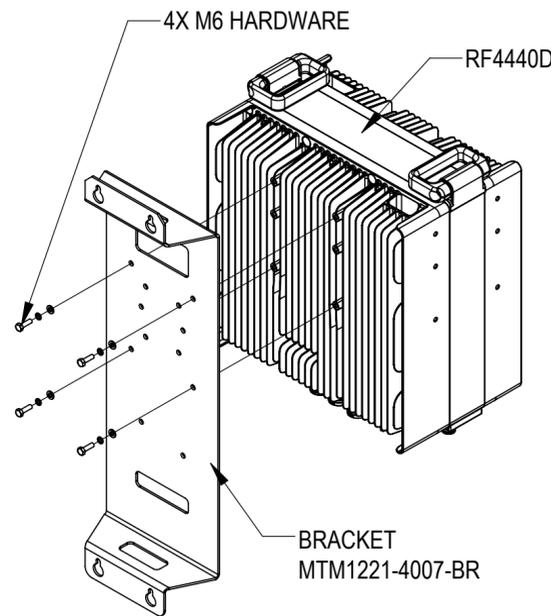
SAM RF4402D-D1A:

INSTALL THE SAM RF4402D-D1A TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



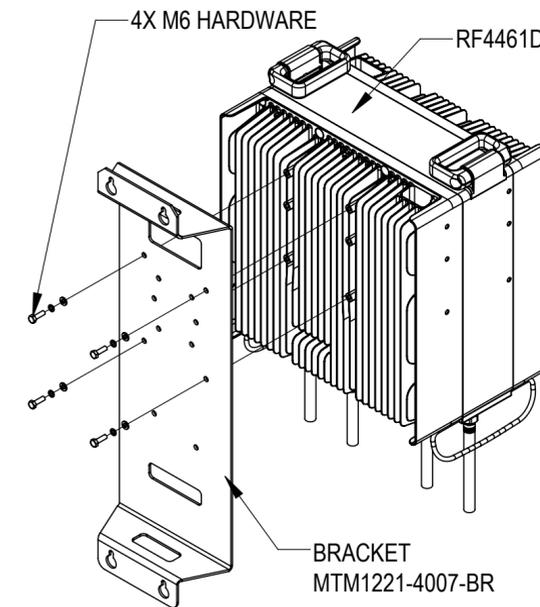
SAM RF4439D:

INSTALL THE SAM RF4439D TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



SAM RF4440D:

INSTALL THE SAM RF4440D TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



SAM RF4461D:

INSTALL THE SAM RF4461D TO THE MOUNTING BRACKET MTM1221-4007-BR USING 4 SETS OF M6 BOLTS AS SHOWN



TITLE
KIT SAM INSTALL - PB20 72" TMT RAD EXT

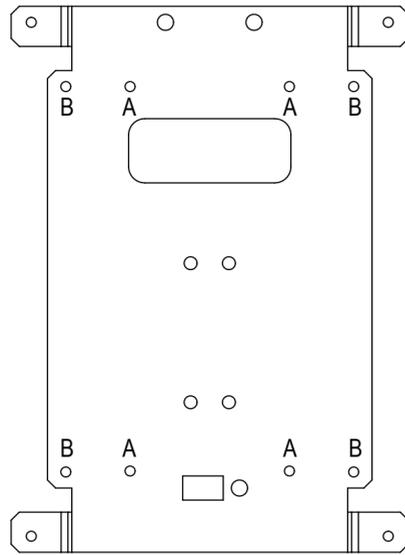
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DRAWING			SHEET 3 OF 13
VERSION	STATUS	REVISION	
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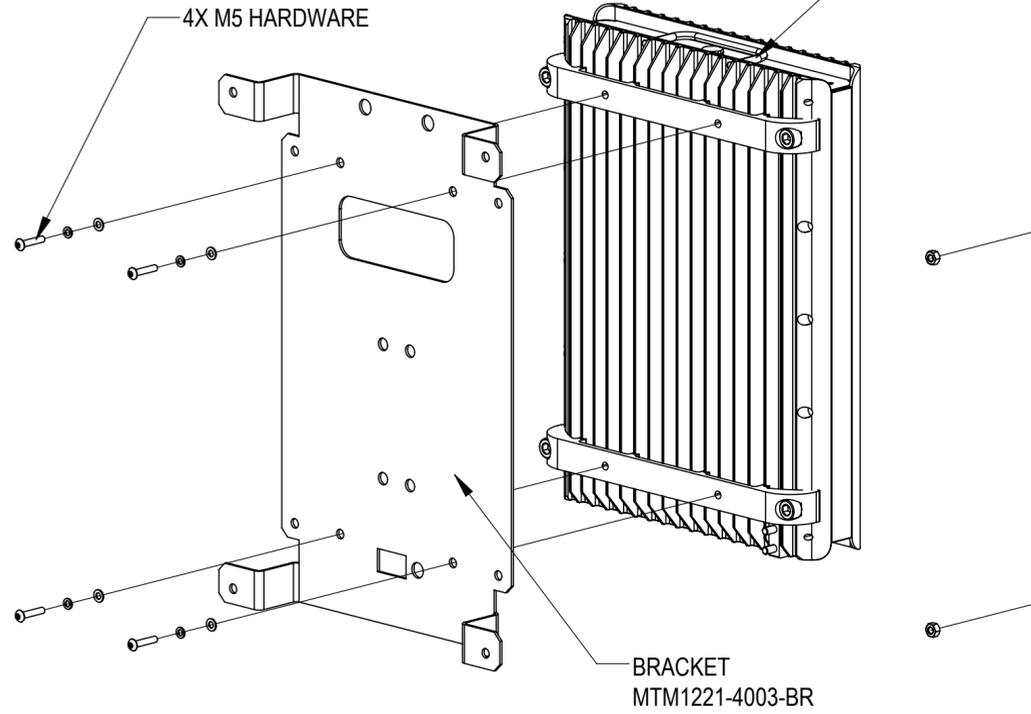
EQUIPMENT MOUNTING INSTALLATION

TORQUE ALL TO SPEC



RADIO INSTALLATION MTM1221-4003-BR

"A": DELTA 2.0KW
"B": ABB CC1600



DELTA 2.0KW:
INSTALL THE DELTA 2.0KW TO THE MOUNTING BRACKET MTM1221-4003-BR USING 4 SETS OF M5 BOLTS AS PROVIDED WITH THE DELTA 2.0 KW

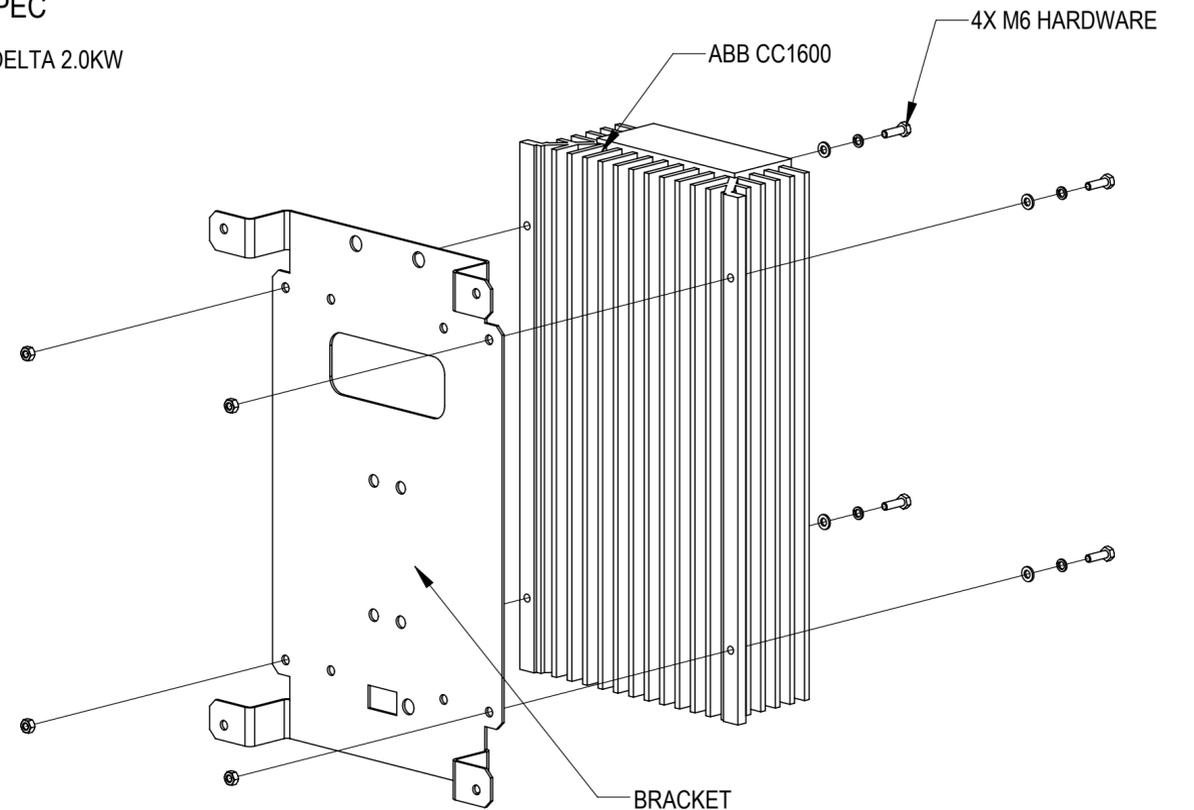
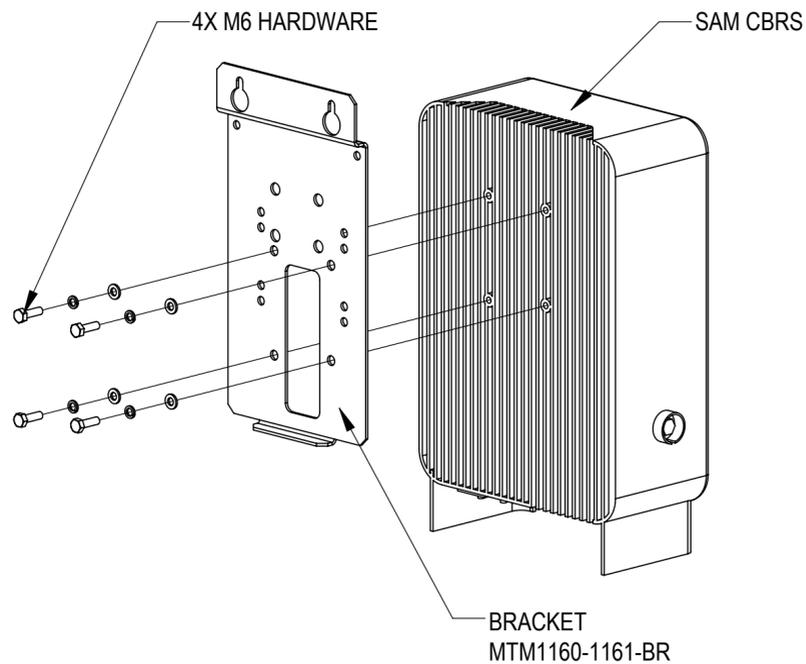
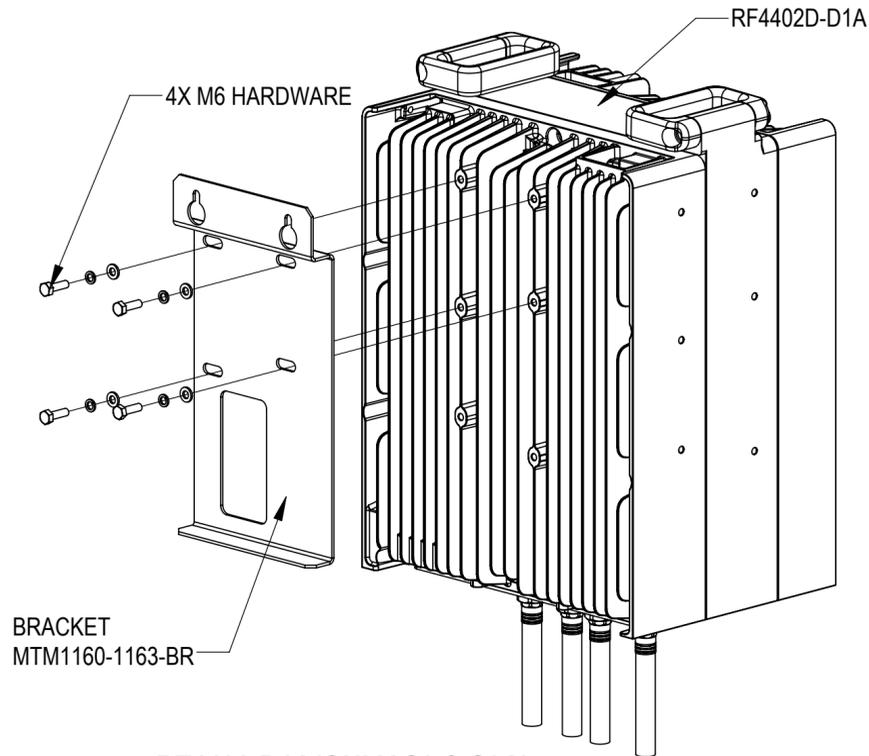


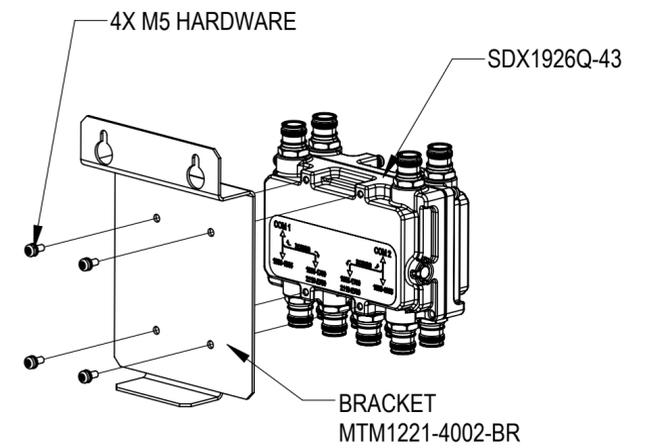
ABB CC1600:
INSTALL THE ABB CC1600 TO THE MOUNTING BRACKET MTM1221-4003-BR USING 4 SETS OF M6 BOLTS AS SHOWN



RT4463-48A:
INSTALL THE RT4463-48A TO THE MOUNTING BRACKET MTM1160-1161-BR USING 4 SETS OF M6 BOLTS AS SHOWN



RT4402-D1A(ONLY S9 & S9A):
INSTALL THE RT4402-D1A TO THE MOUNTING BRACKET MTM1160-1163-BR USING 4 SETS OF M6 BOLTS NEAR THE RIGHT AS SHOWN



SDX1926Q-43:
INSTALL THE SDX1926Q-43 TO THE MOUNTING BRACKET MTM1221-4002-BR USING 4 SETS OF M5 CAPTIVE SEM SCREWS PROVIDED WITH THE SDX1926Q-43



TITLE
KIT SAM INSTALL - PB20 72" TMT RAD EXT

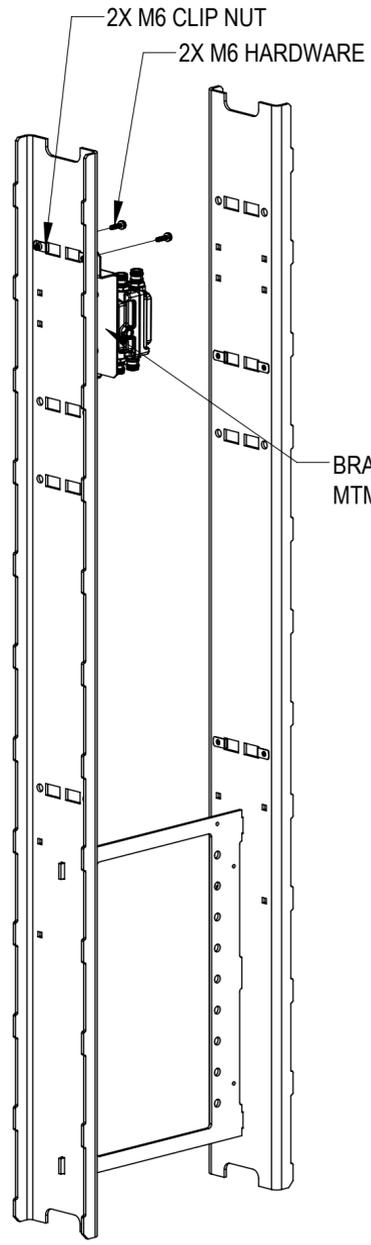
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DRAWING			SHEET 4 OF 13
VERSION	STATUS	REVISION	
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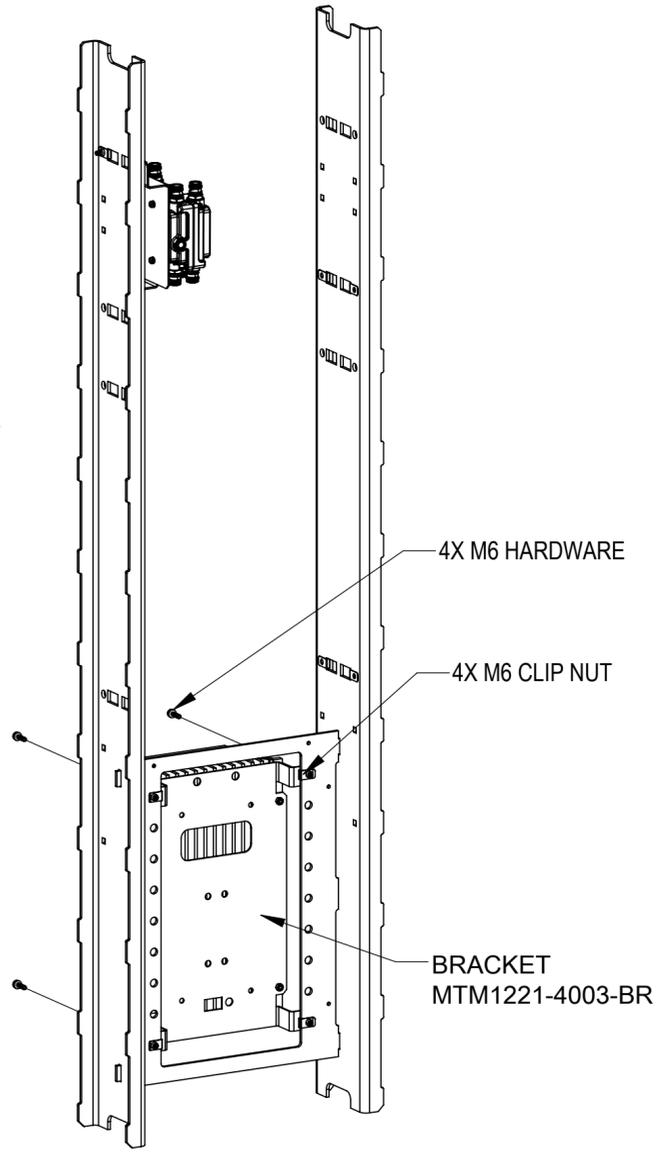
S1: SAM RF4437D + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S2: SAM RF4437D + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



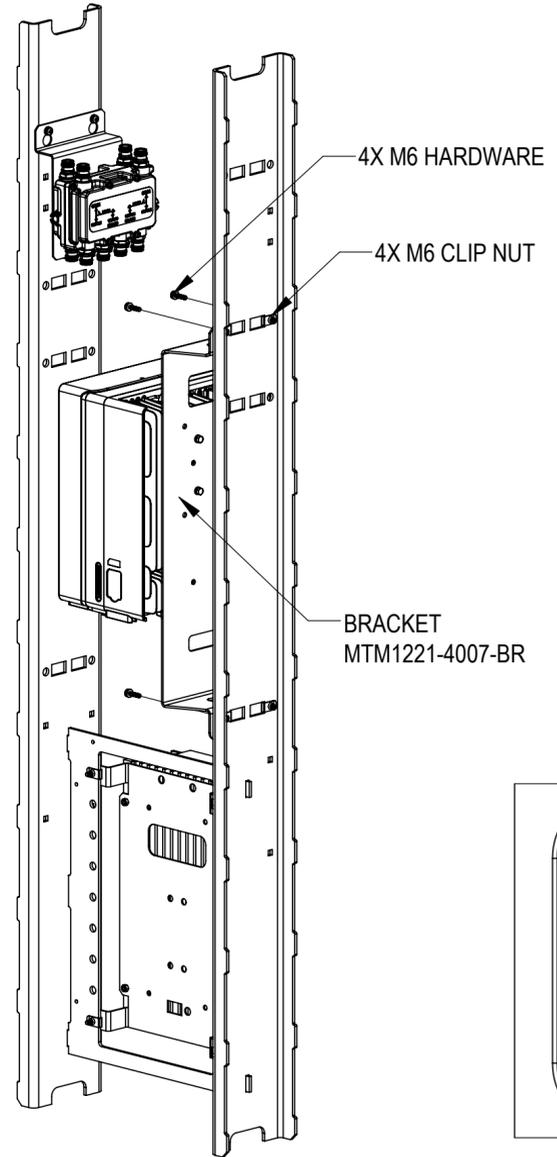
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)

1. INSTALL THE MOUNTING BRACKET MTM1221-4002-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



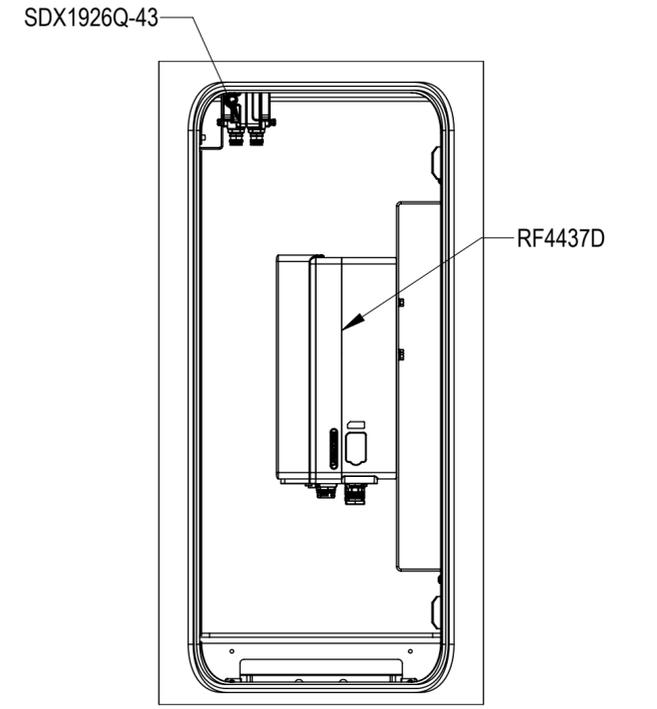
STEP 2 :
MTM1221-4003-BR(S1 DELTA 2.0KW)
MTM1221-4003-BR(S2 ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

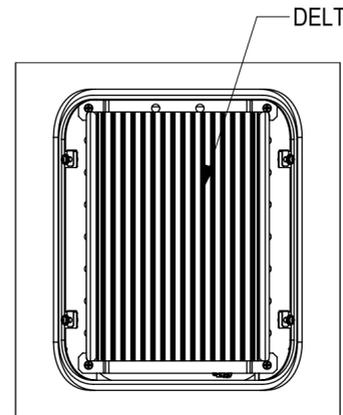


STEP 3 :
MTM1221-4007-BR(RF4437D)

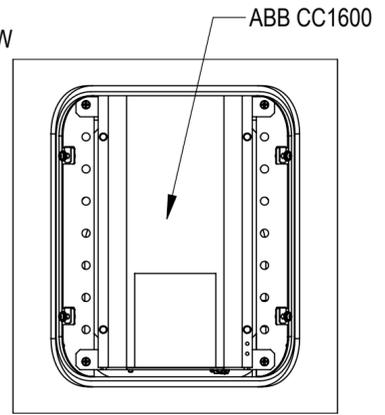
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S1)



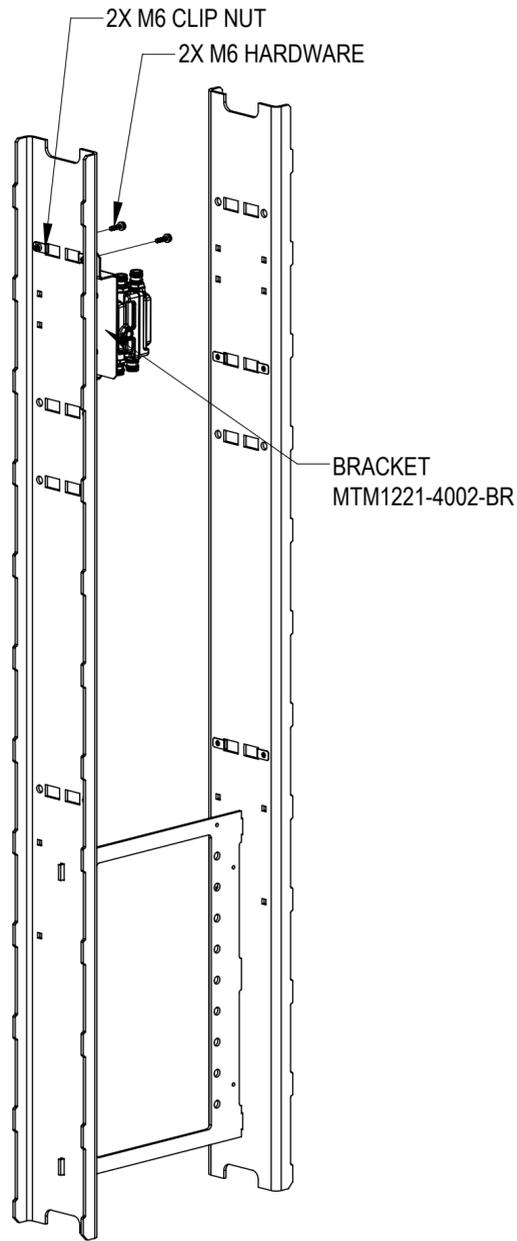
REAR VIEW (S2)

 ANDREW an Amphenol company				
TITLE KIT SAM INSTALL - PB20 72" TMT RAD EXT				
SIZE C	SCALE 1:4	DOCUMENT NO. MTM1193-9900-AMK-S		
 		DRAWING		SHEET 5 OF 13
		VERSION 00	STATUS RE	

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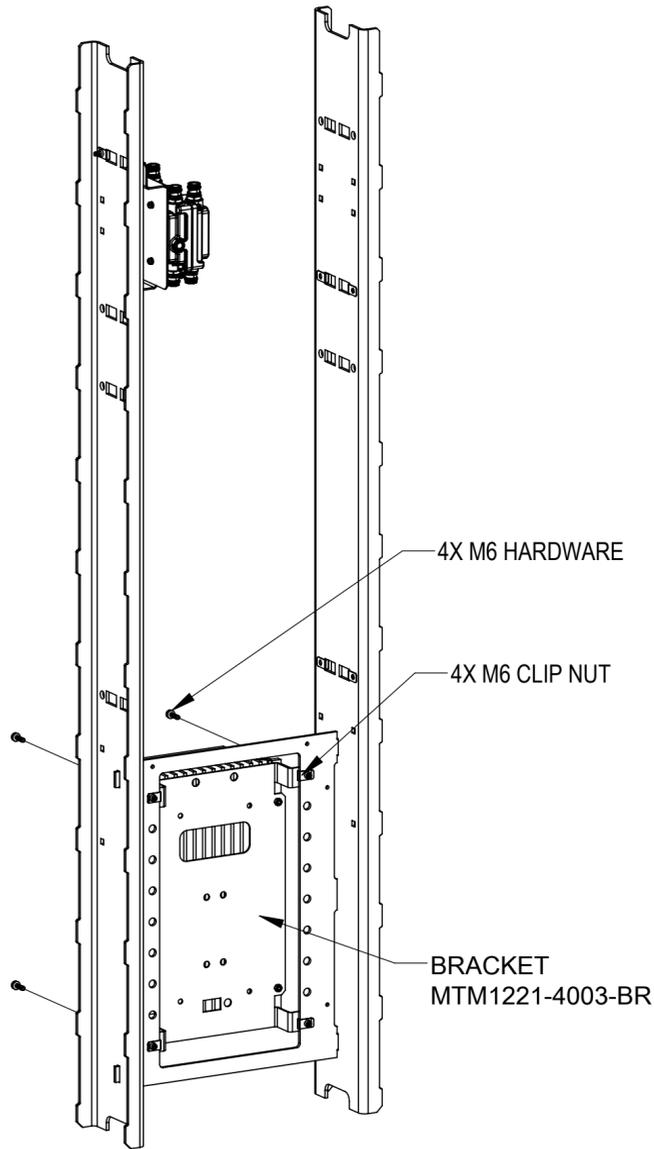
S3: SAM RF4442D + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S4: SAM RF4442D + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



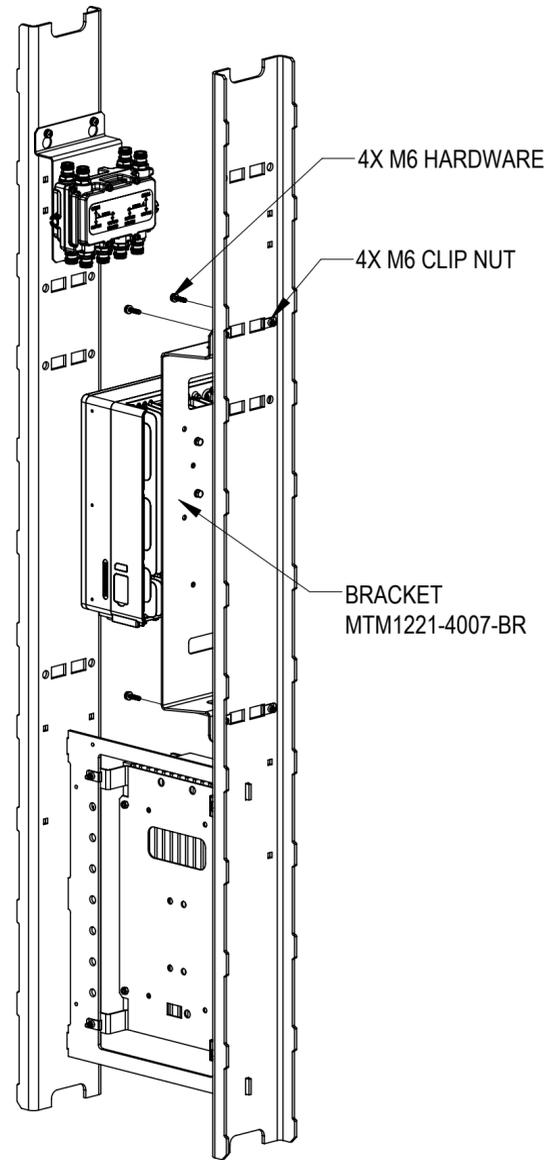
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



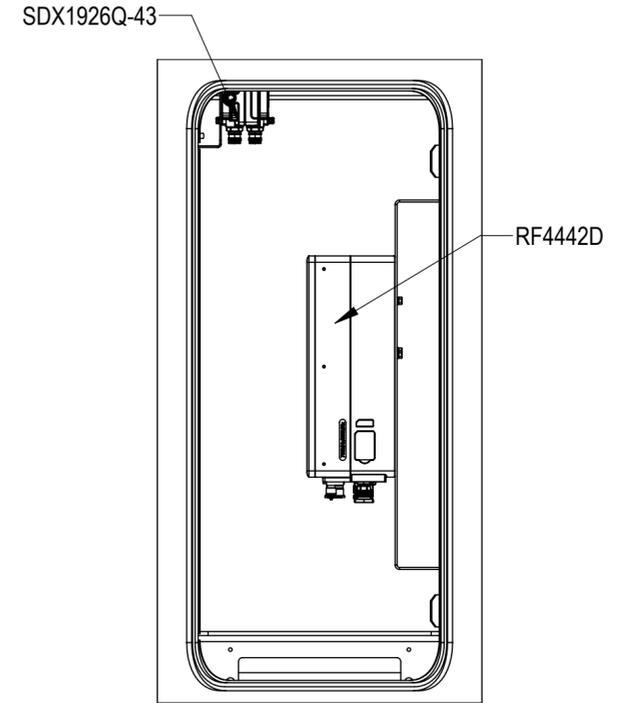
STEP 2 :
MTM1221-4003-BR(S3 DELTA 2.0KW)
MTM1221-4003-BR(S4 ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

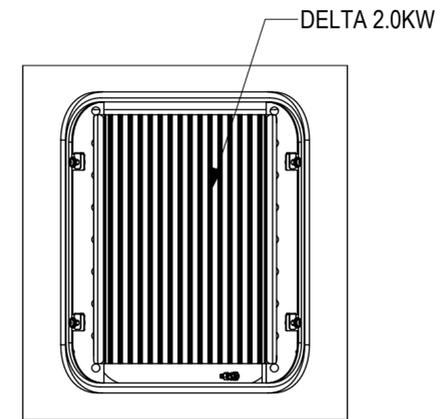


STEP 3 :
MTM1221-4007-BR(RF4442D)

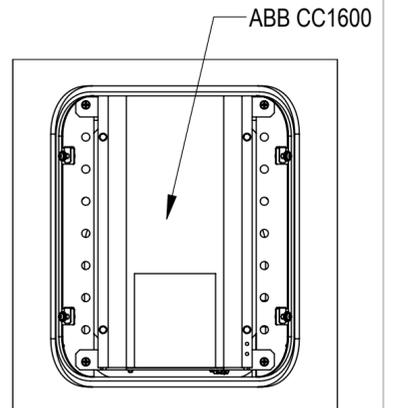
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S3)



REAR VIEW (S4)

ANDREW an Amphenol company

TITLE
 KIT SAM INSTALL - PB20 72" TMT RAD EXT

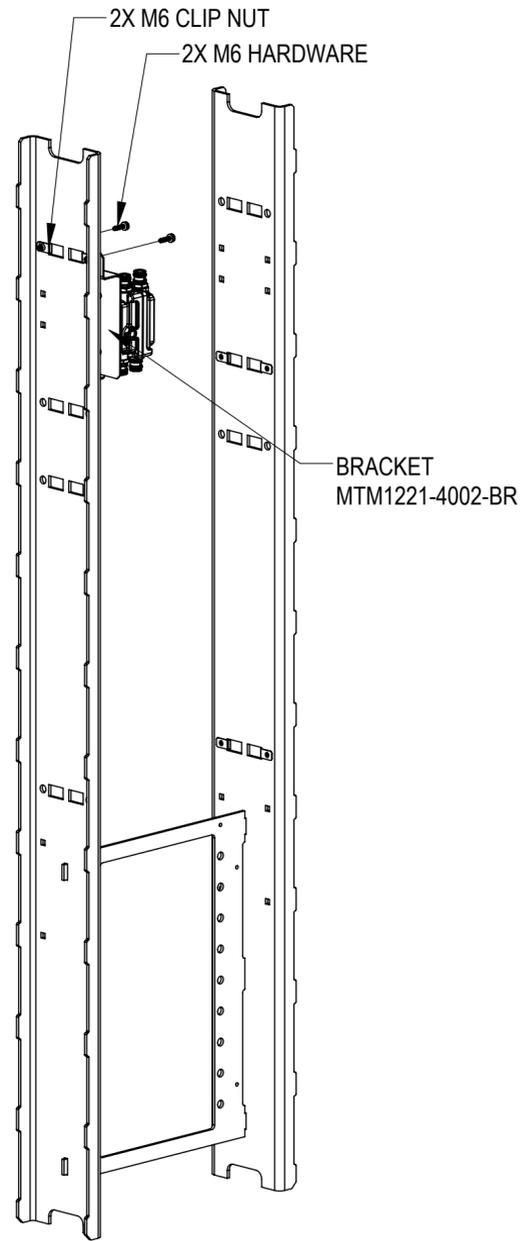
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 MTM1193-9900-AMK-S

DRAWING			SHEET 6 OF 13
VERSION	STATUS	REVISION	
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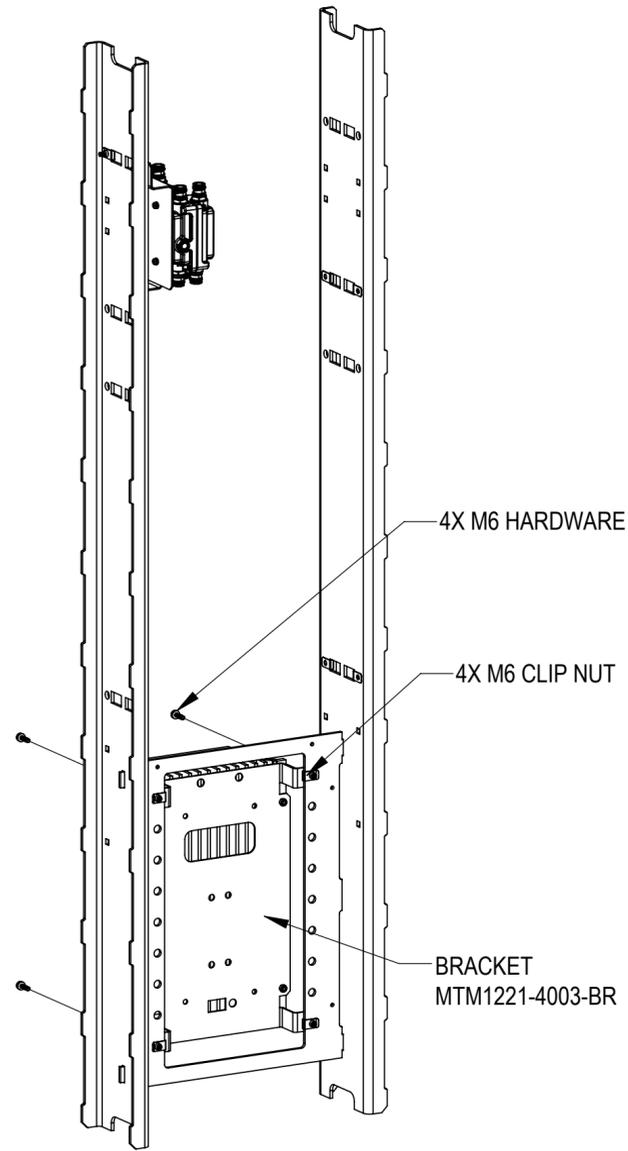
S5: SAM RT8808-77A + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S6: SAM RT8808-77A + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



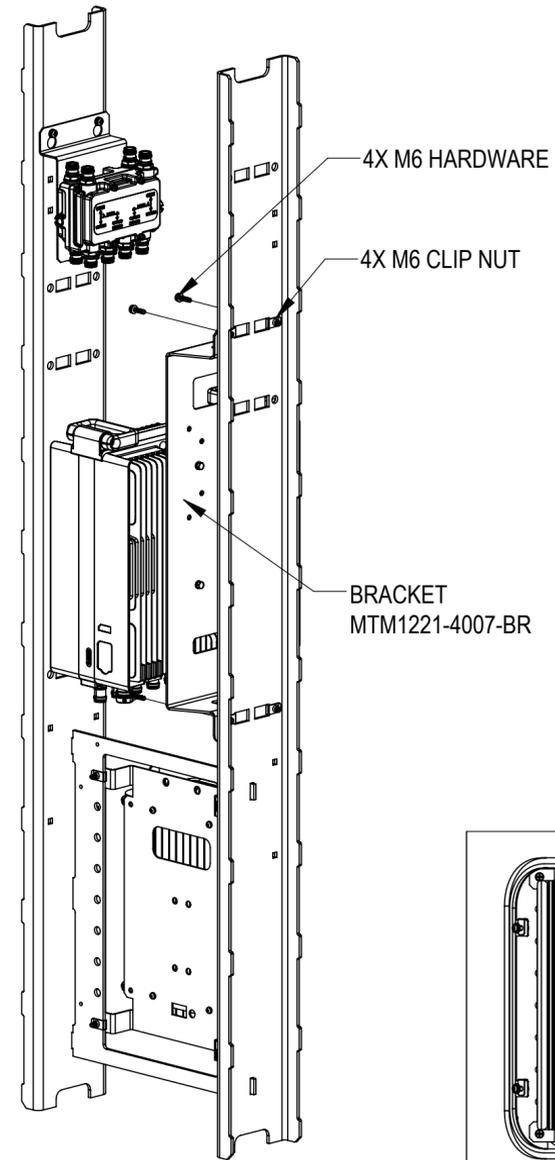
STEP 1 :
MTM1221-4002-BR(SDX1926Q-43)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



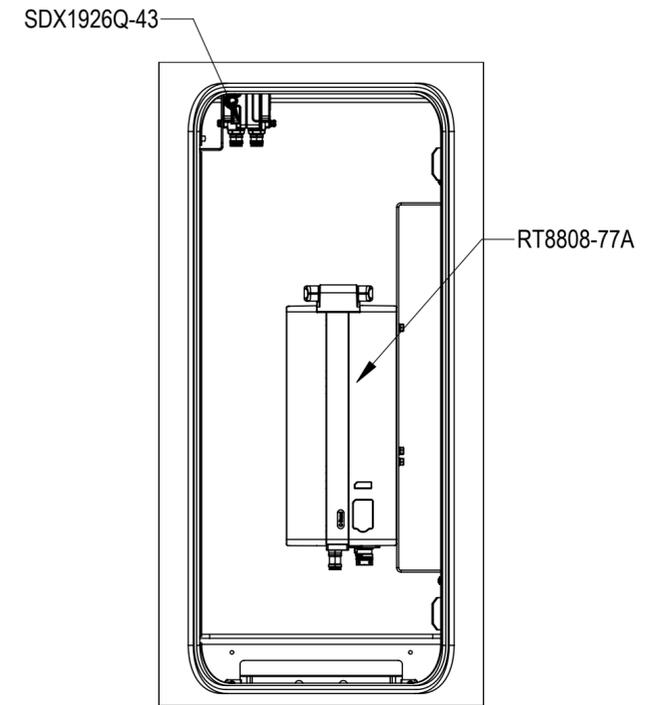
STEP 2 :
MTM1221-4003-BR(S5 DELTA 2.0KW)
MTM1221-4003-BR(S6 ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

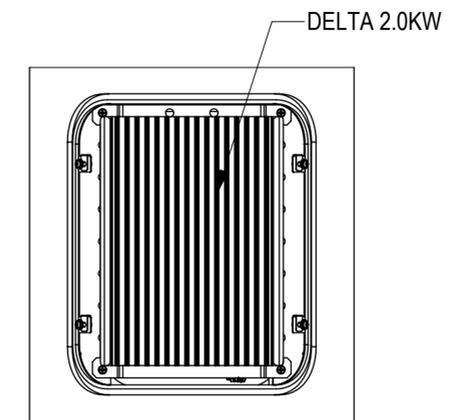


STEP 3 :
MTM1221-4007-BR(RT8808-77A)

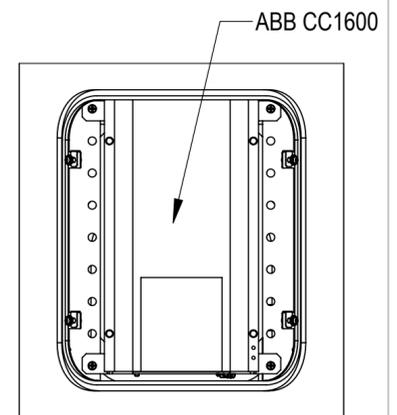
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S5)



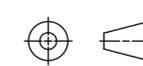
REAR VIEW (S6)



TITLE
 KIT SAM INSTALL - PB20 72" TMT RAD EXT

SIZE C	SCALE 1:10	DOCUMENT NO. MTM1193-9900-AMK-S
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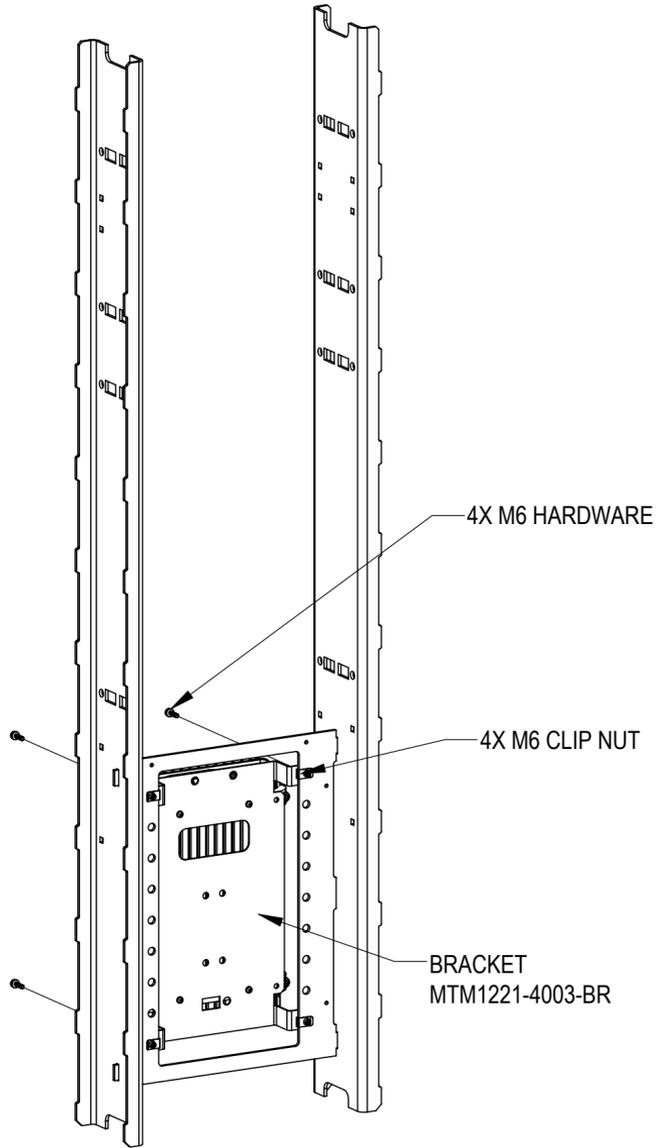
Confidential



DRAWING			SHEET 7 OF 13
VERSION	STATUS	REVISION	
00	RE	A	

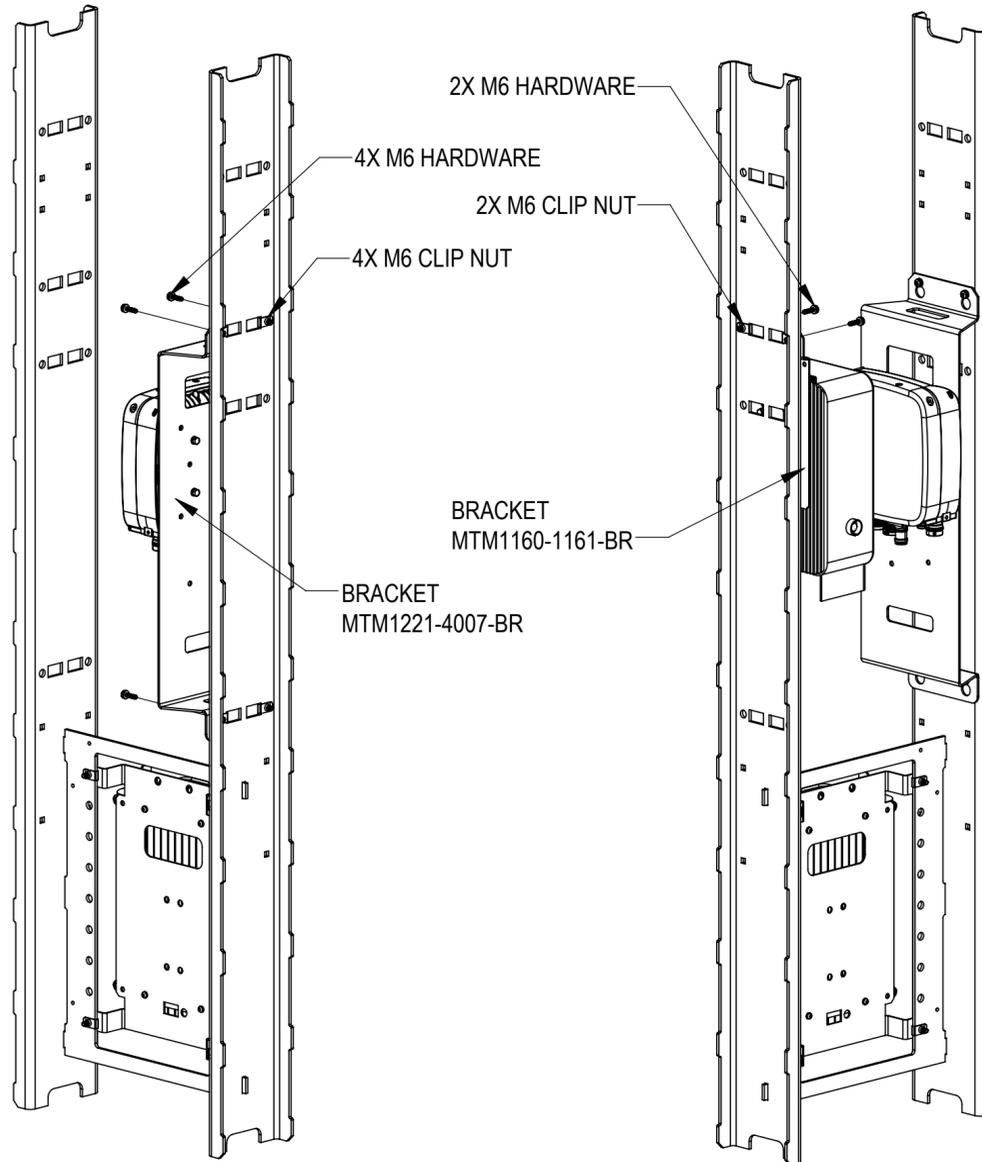
S7: RT4463-48A + RT2201-46A + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S7A: RT4463-48A + RT2201-46A + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



STEP 1 :
MTM1221-4003-BR(S7 DELTA 2.0KW)
MTM1221-4003-BR(S7A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

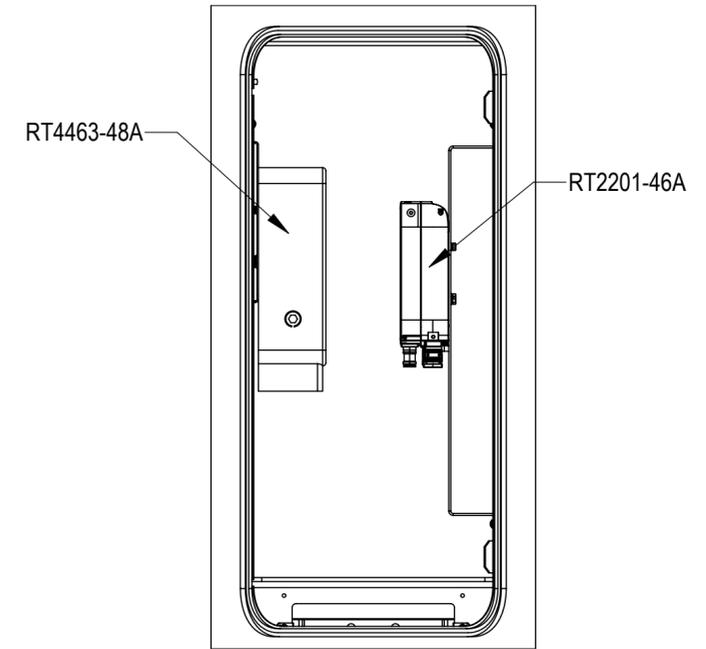


STEP 2 :
MTM1221-4007-BR(RF2201-46A)

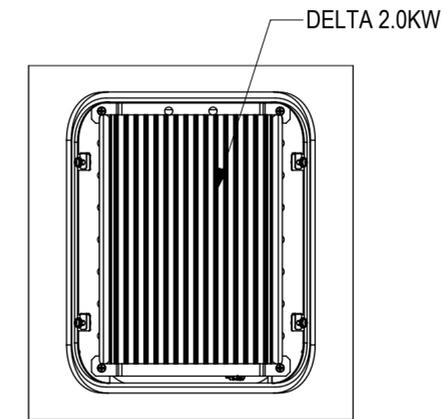
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

STEP 3 :
MTM1160-1161-BR(RT4463-48A)

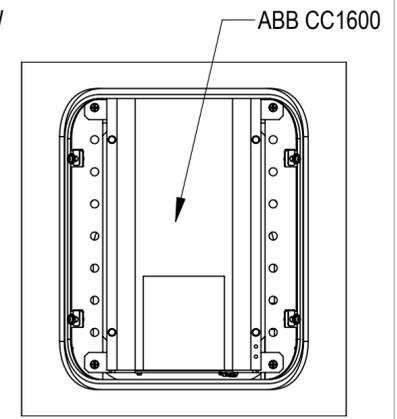
1. INSTALL THE MOUNTING BRACKET MTM1160-1161-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S7)



REAR VIEW (S7A)



TITLE
 KIT SAM INSTALL - PB20 72" TMT RAD EXT

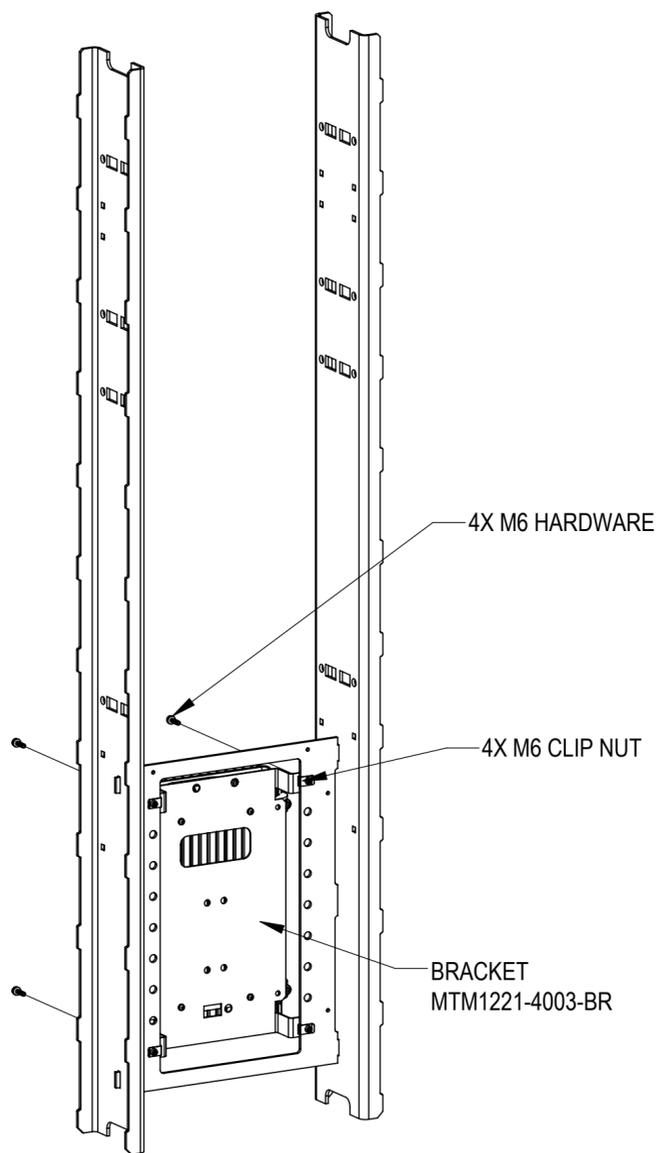
SIZE C	SCALE 1:10	DOCUMENT NO. MTM1193-9900-AMK-S
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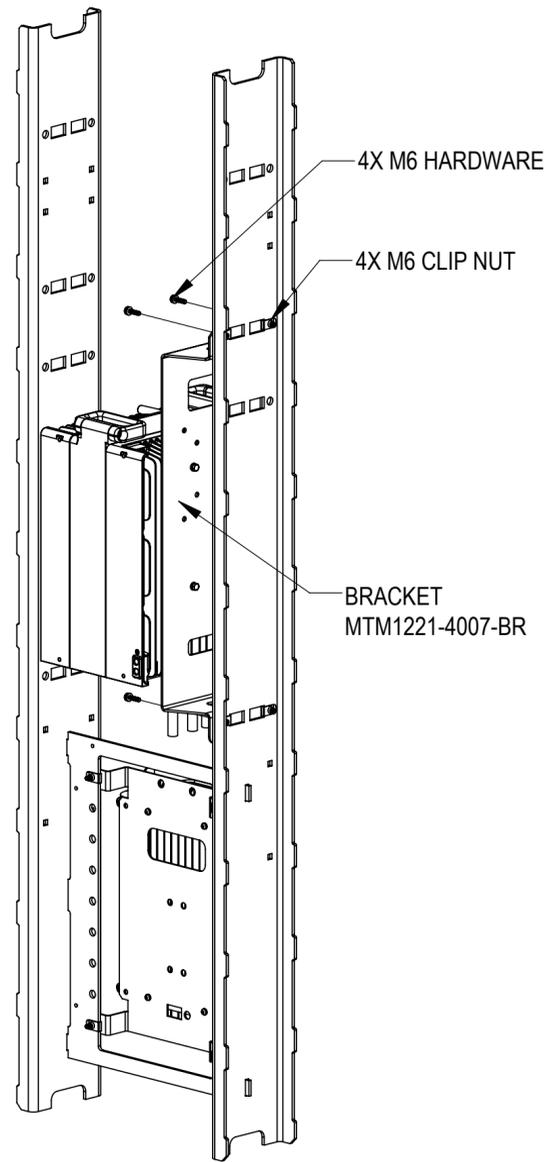
S8: RF4402D-D1A + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S8A: RF4402D-D1A + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



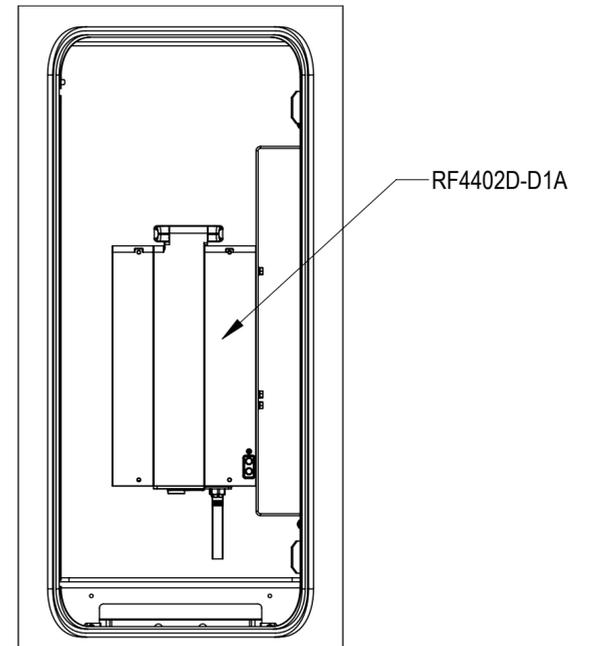
STEP 1 :
MTM1221-4003-BR(S8 DELTA 2.0KW)
MTM1221-4003-BR(S8A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

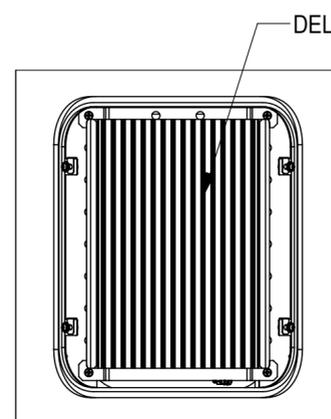


STEP 2 :
MTM1221-4007-BR(RF4402D-D1A)

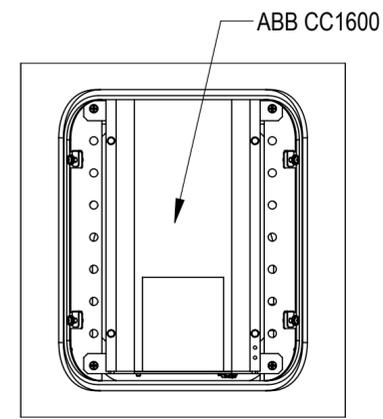
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S8)



REAR VIEW (S8A)

 ANDREW an Amphenol company					
TITLE KIT SAM INSTALL - PB20 72" TMT RAD EXT					
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 		DRAWING			SHEET 9 OF 13
		VERSION 00	STATUS RE	REVISION A	

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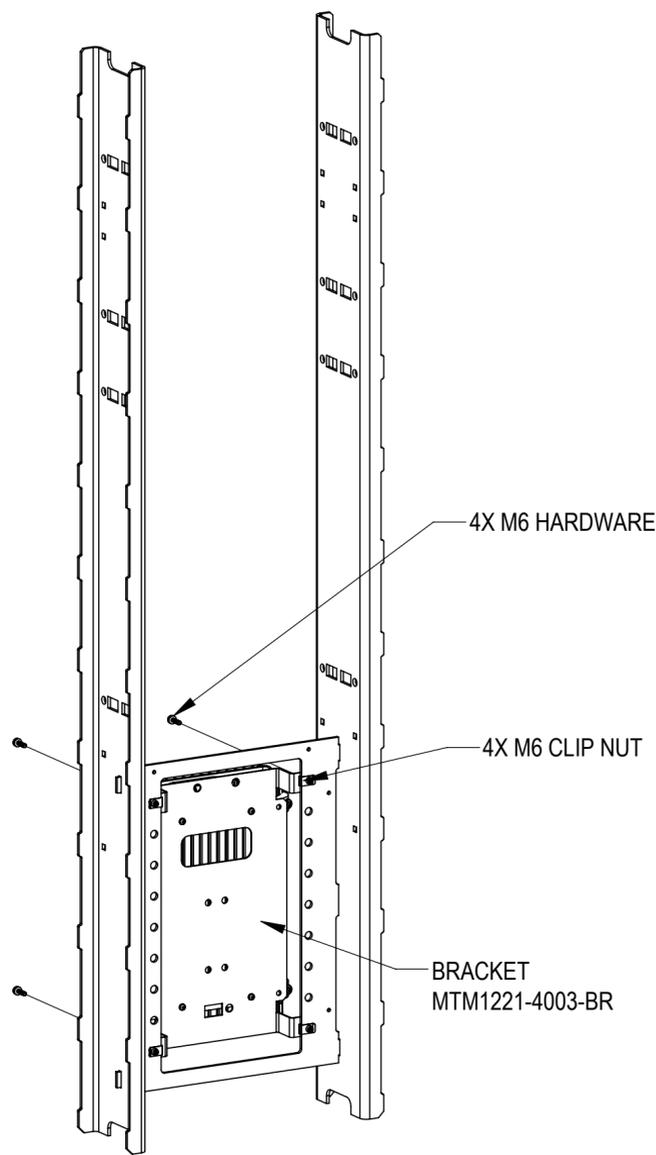
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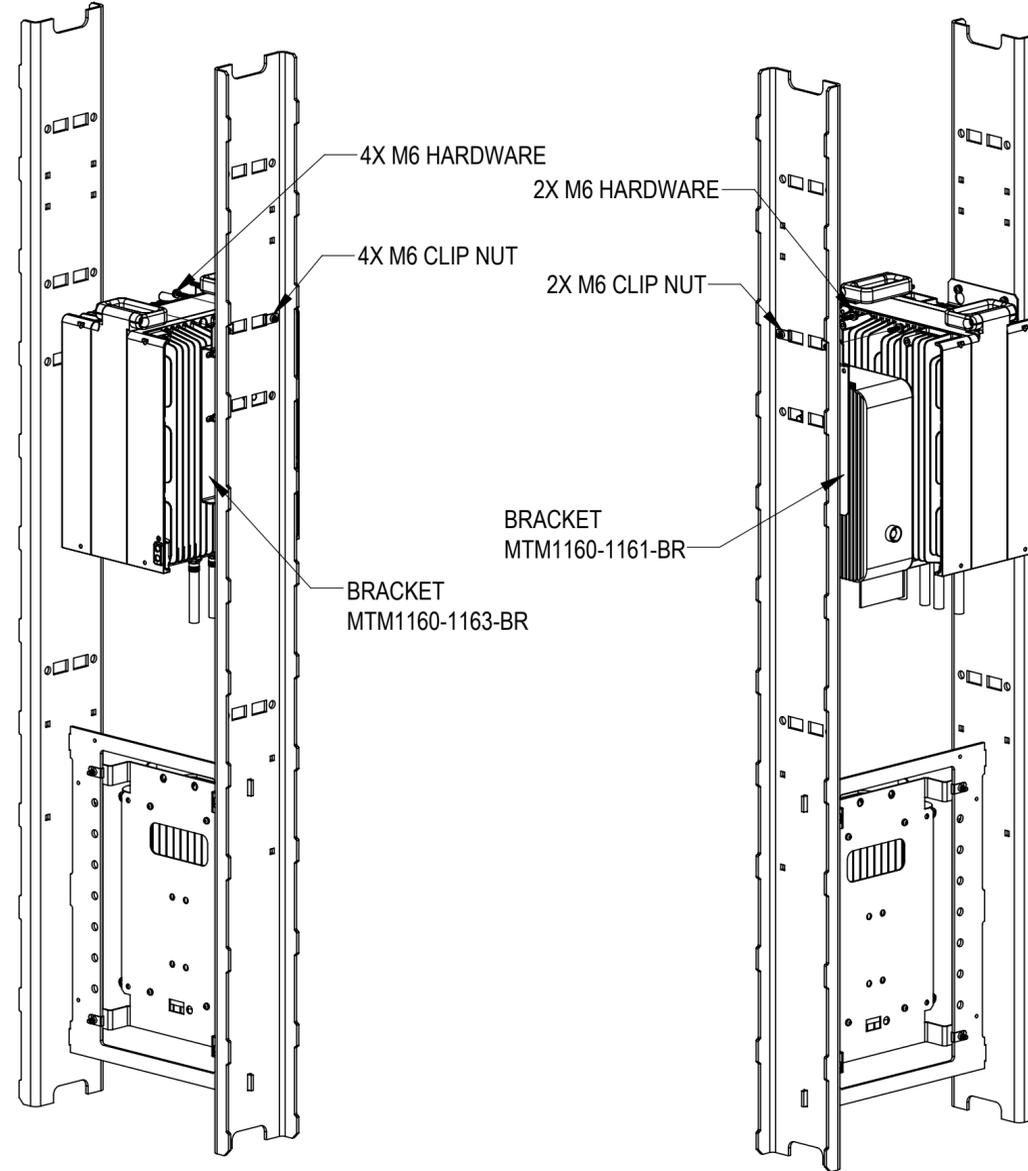
S9: RT4463-48A + RF4402D-D1A + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S9A: RT4463-48A + RF4402D-D1A + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



STEP 1 :
MTM1221-4003-BR(S9 DELTA 2.0KW)
MTM1221-4003-BR(S9A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

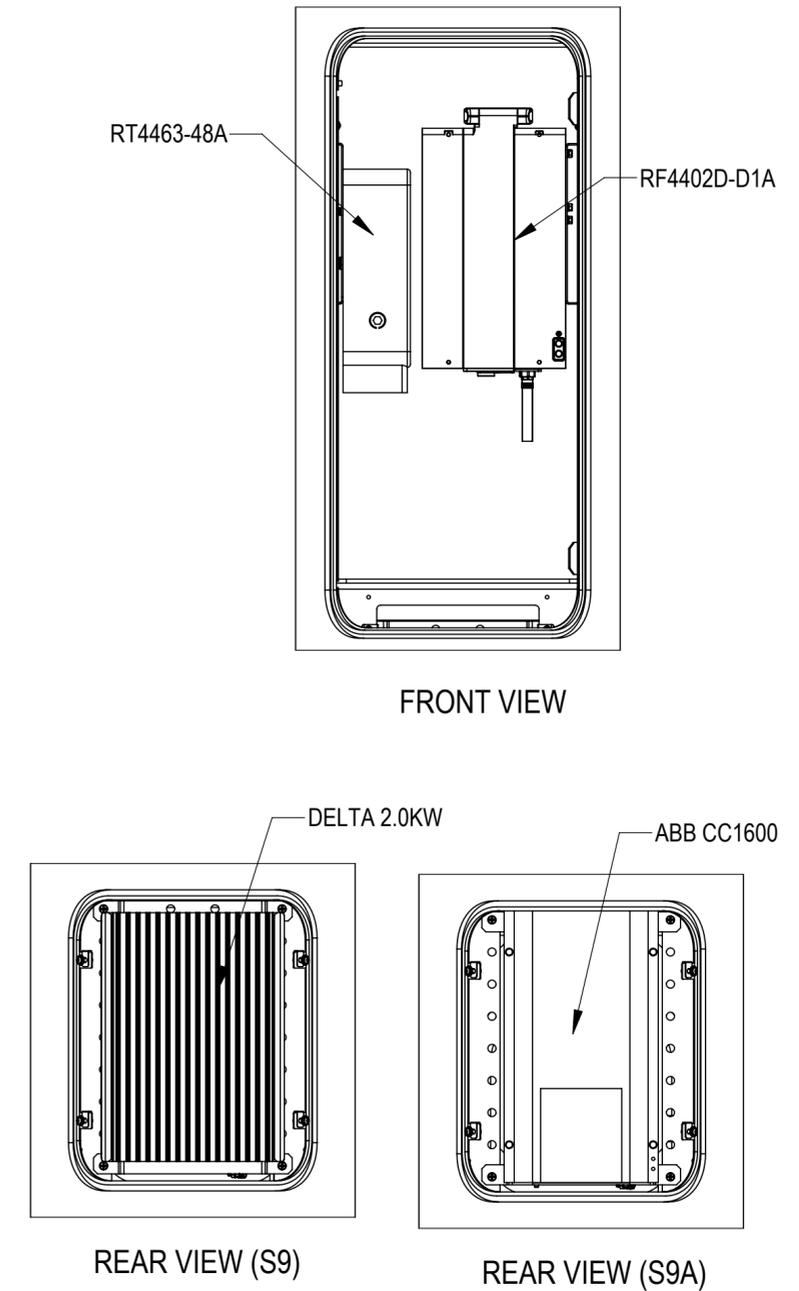


STEP 2 :
MTM1160-1163-BR(RF4402D-D1A)

1. INSTALL THE MOUNTING BRACKET MTM1160-1163-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

STEP 3 :
MTM1160-1161-CR(RT4463-48A)

1. INSTALL THE MOUNTING BRACKET MTM1160-1161-CR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



 ANDREW an Amphenol company				
TITLE KIT SAM INSTALL - PB20 72" TMT RAD EXT				
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 		DRAWING		SHEET
		VERSION 00	STATUS RE	REVISION A

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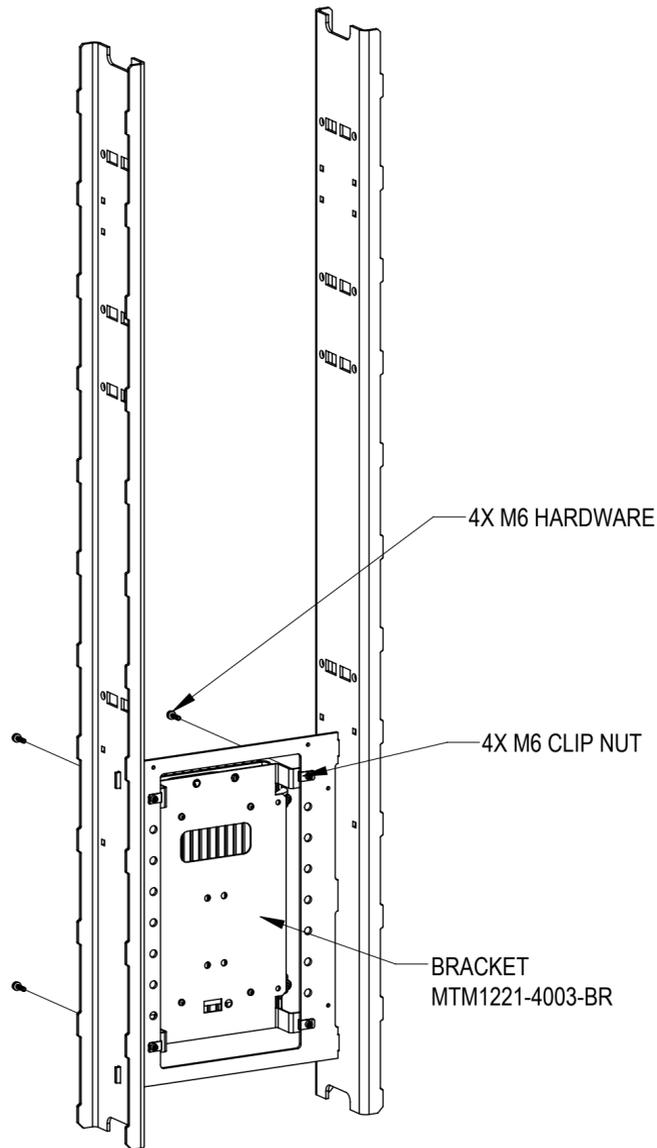
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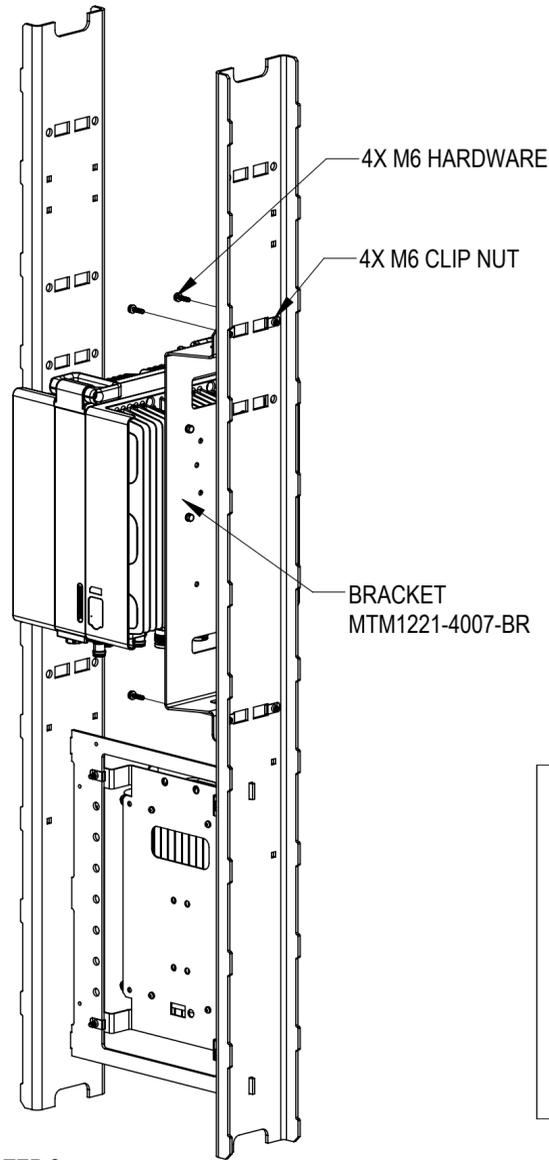
S10: RF4439D + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S10A: RF4439D + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



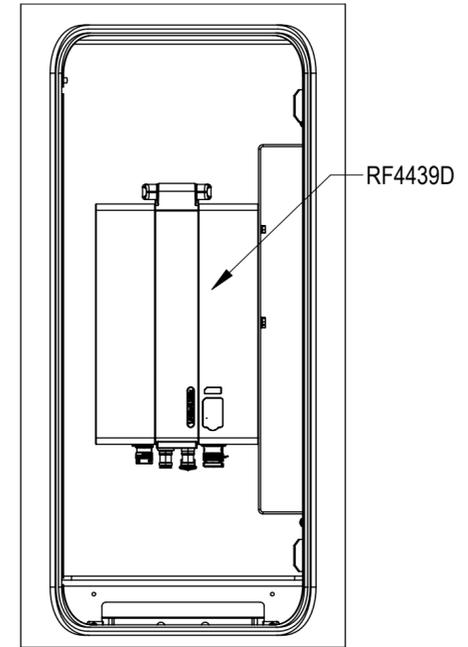
STEP 1 :
MTM1221-4003-BR(S10 DELTA 2.0KW)
MTM1221-4003-BR(S10A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

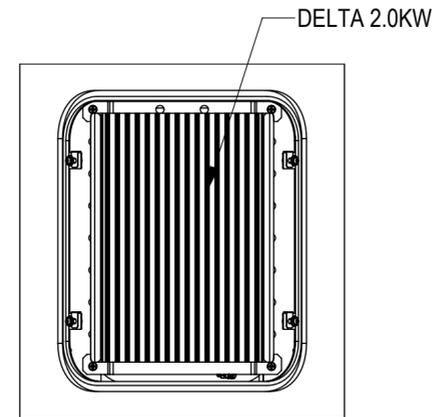


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MTM1221-4007-BR(RF4439D)

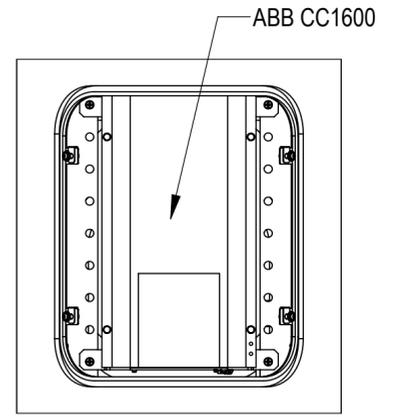
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S10)



REAR VIEW (S10A)



TITLE
 KIT SAM INSTALL - PB20 72" TMT RAD EXT

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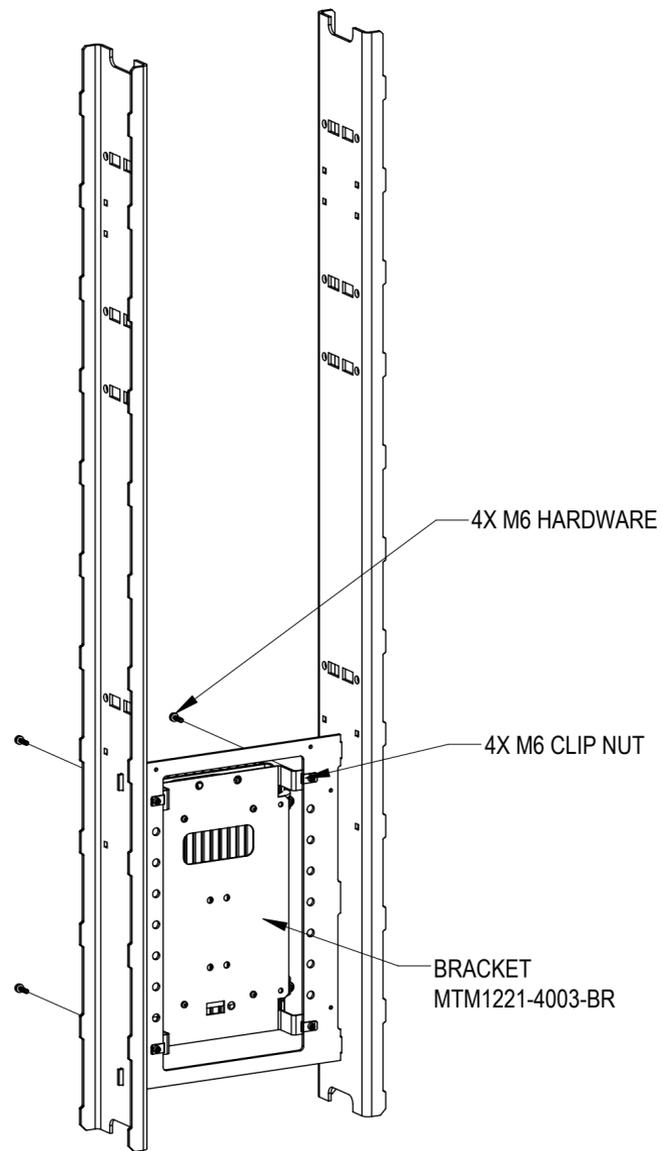
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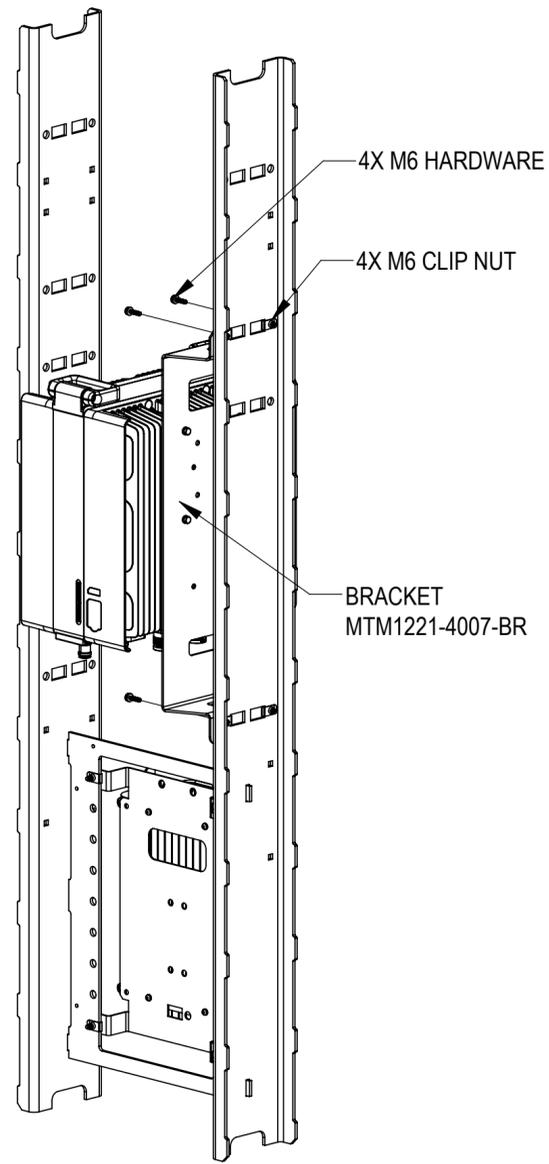
S11: RF4440D + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S11A: RF4440D + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



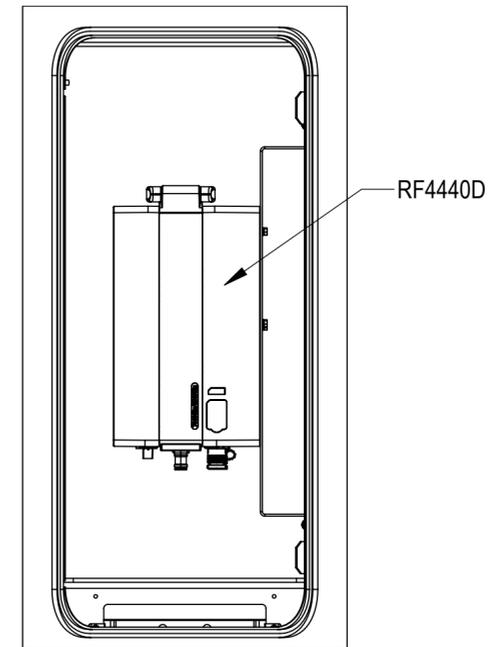
STEP 1 :
MTM1221-4003-BR(S11 DELTA 2.0KW)
MTM1221-4003-BR(S11A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO THE BRACKET INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

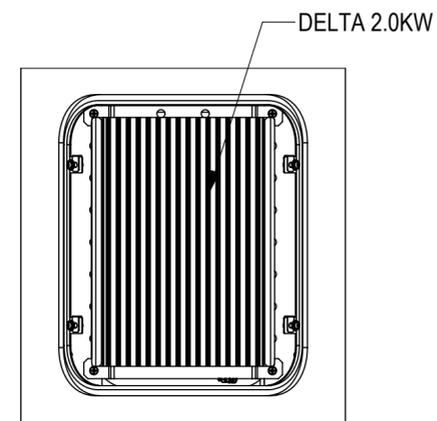


STEP 2 :
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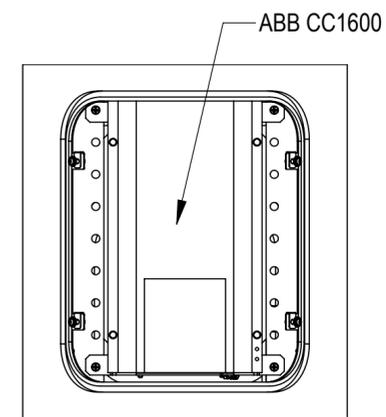
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S11)



REAR VIEW (S11A)

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TITLE
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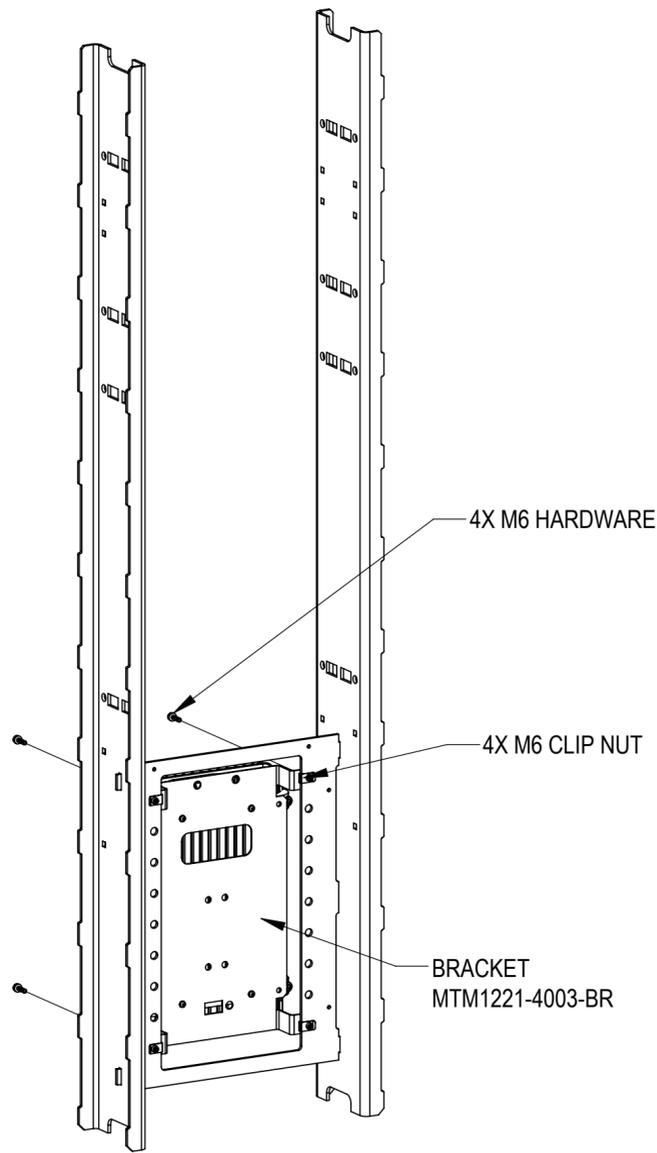
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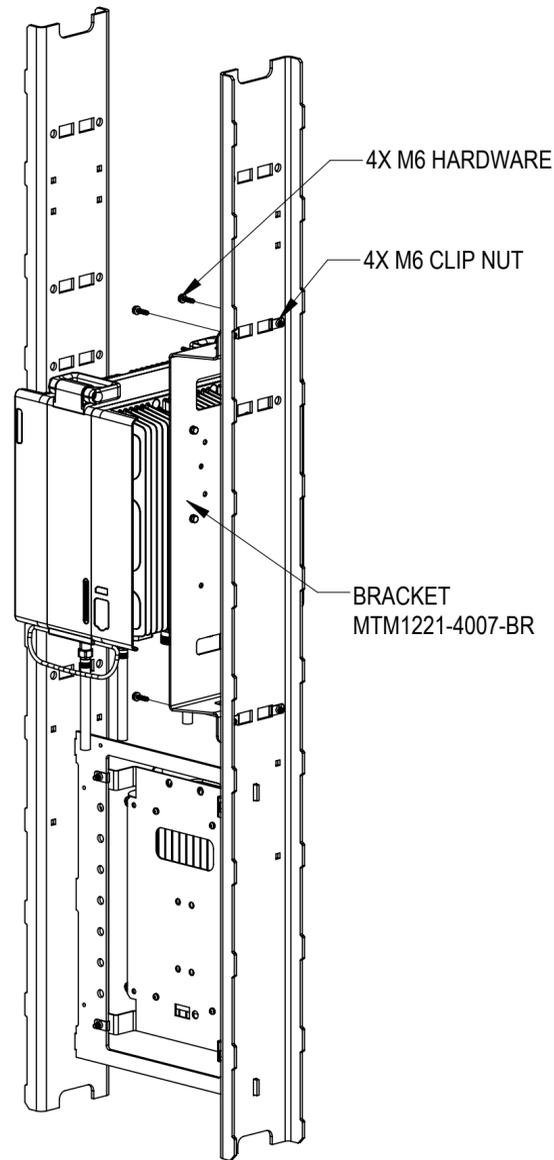
S12: RF4461D + QUAD DIPLEXER SDX1926Q-43 + DELTA 2.0KW INSTALLATION
S12A: RF4461D + QUAD DIPLEXER SDX1926Q-43 + ABB CC1600 INSTALLATION

EQUIPMENT INSTALLATION SEE SHEET 3 & 4
 TORQUE ALL TO SPEC



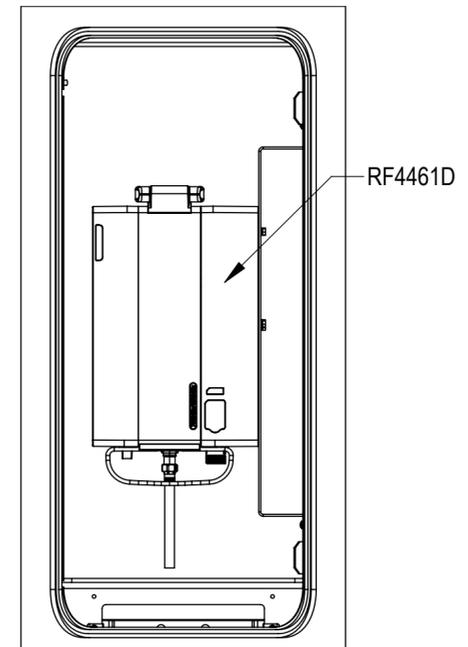
STEP 1 :
MTM1221-4003-BR(S12 DELTA 2.0KW)
MTM1221-4003-BR(S12A ABB CC1600)

1. INSTALL THE MOUNTING BRACKET MTM1221-4003-BR TO BRACKET OF ASSEMBLY USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS

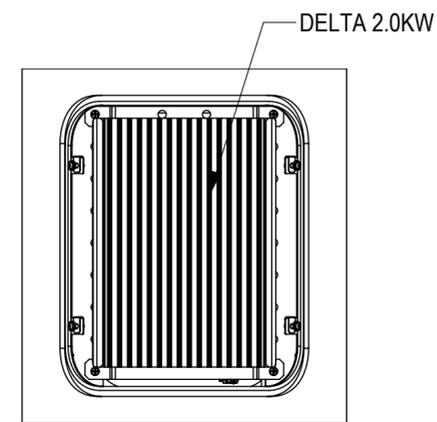


STEP 2 :
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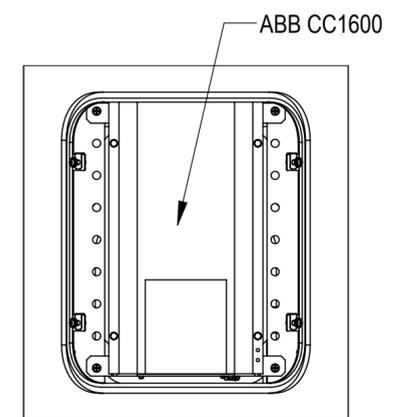
1. INSTALL THE MOUNTING BRACKET MTM1221-4007-BR TO THE STRUT INSIDE THE POLE USING 4 SETS OF M6 SEMS SCREWS AND CLIP NUTS



FRONT VIEW



REAR VIEW (S12)



REAR VIEW (S12A)

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TITLE
 KIT SAM INSTALL - PB20 72" TMT RAD EXT

SIZE **C** SCALE **1:10** DOCUMENT NO.
 MTM1193-9900-AMK-S

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