

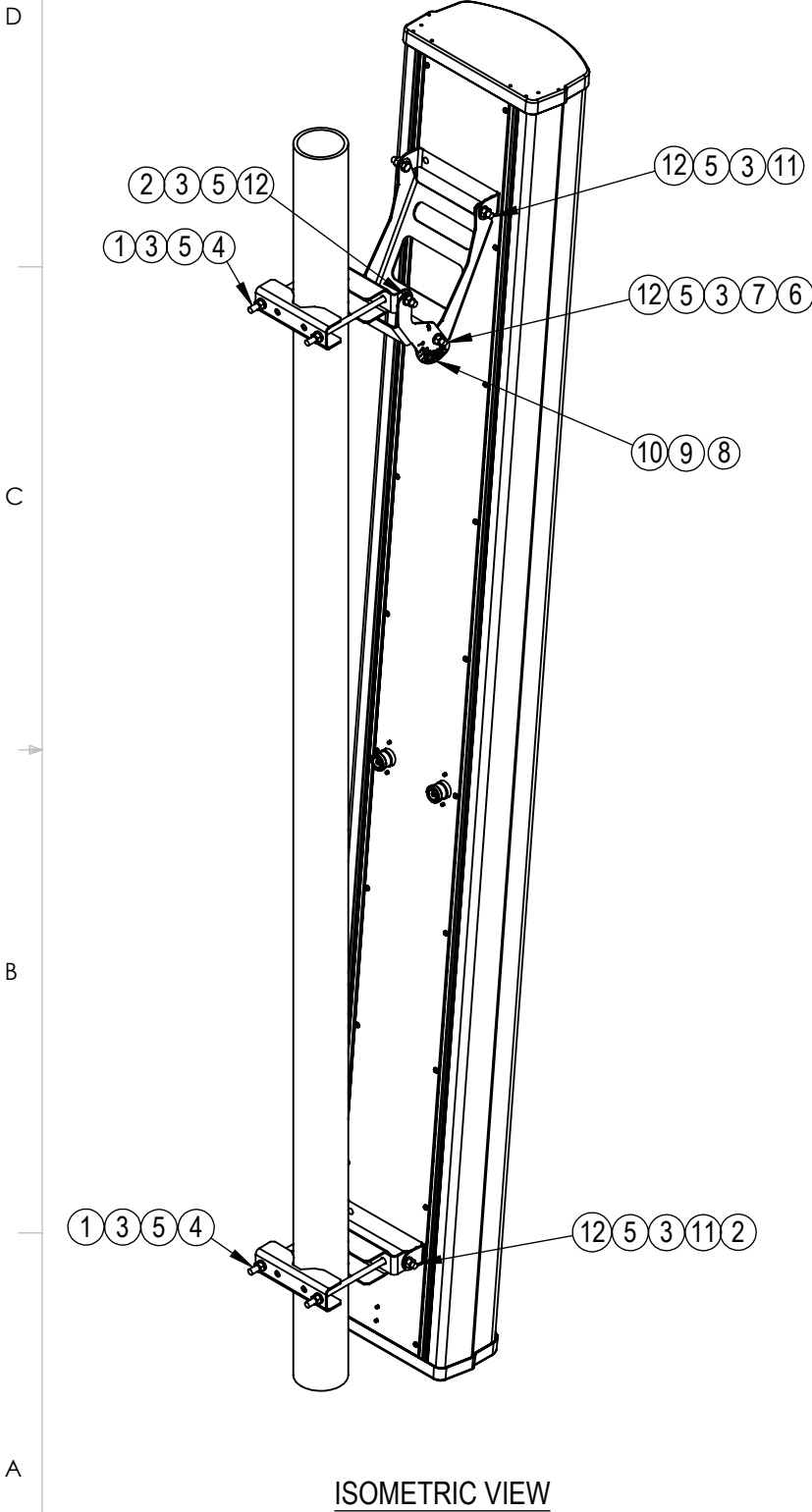
MKS09T01
Wide Extended Scissor, 2 Point Mounting
Downtilt Bracket Instructions

(A copy of these instructions to be included in each mounting kit box at manufacturer.)

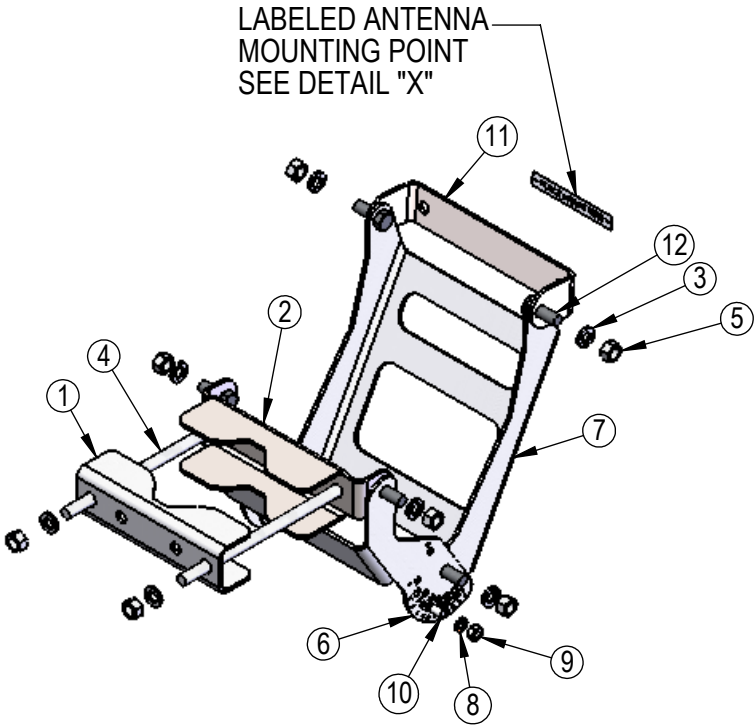
1. Attach the **antenna(example shown)** to the **interface brackets (11)** using the provided channel runners at the **labeled antenna mounting points** (see Detail "X"). Top and bottom attachment points on the antenna must be 39.38in (1.0M) apart to achieve tilt values shown in chart below. Locate the middle brackets to ensure that they do not interfere with RF connectors.
2. Assemble the **front pipe grips (2)**, **upper scissor brackets (6 & 7)** and **lower scissor brackets (2)** to the **interface brackets (11)** using 3/8in locking hardware.
3. Assemble **rear pipe grips (1)** with one 7in **bolt (4)** to the **front pipe grips (2)** Raise antenna to pipe. Insert second 7in bolt through **front pipe grips (2)** and tighten to pipe.
Tighten the 7in bolts to 11ft lbs (15Nm). Do NOT Overtighten. Excessive torque loading will distort the pipe grip components.
4. Position the antenna in the desired downtilt position (reference tilt chart below). After positioning, find the holes in the **top scissor bracket** that align and install the M6 locking hardware to both sides.
Tighten the 1/4in hardware to 11 ft-lbs (15Nm). Tighten the 3/8in hardware to 15 ft-lbs (20Nm).
5. Make all electrical connections and weatherproof with self-amalgamating tape.

Letter	Tilt
A	0°
B	0.8°
C	1.7°
D	2.5°
E	3.4°
F	4.2°
G	5.0°
H	5.9°
I	6.7°
J	7.6°
K	8.4°
L	9.2°
M	10.1°

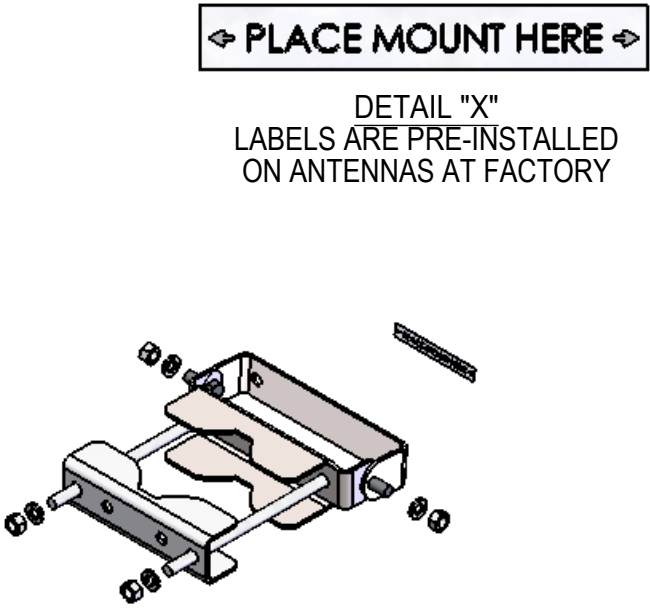
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	251-445-9-029	PIPE GRIP, REAR	2
2	251-445-9-006	PIPE GRIP WITH ELEVATION	2
3	730-308-1-601	3/8 LW HDG	12
4	665-112-1-612	3/8-16 x 7.0 HHCS HDG	4
5	684-222-1-623	3/8-16 HEX NUT HDG	12
6	251-445-9-010	INDEXED SCISSOR BRACKET	1
7	251-445-9-012	BRACKET, LONG DOWNTILT	1
8	660-017-1-002	WASHER, 1/4, (.385 x .680 x .094) SPLIT LOCK WASHER	2
9	660-017-1-004	NUT, 1/4-20, HEX NUT	2
10	660-017-1-003	SCREW, 1/4-20 X .75, HHCS (HEX)	2
11	22191508	BRACKET ADAPTOR	2
12	665-016-1-602	Screw, 3/8-16 x 1.00, HHCS (Hex), GRADE 307A, Hot Dip Galvanized, Fastenal 91854	8



ISOMETRIC VIEW



TOP INDEXED TILT DETAIL



BRACKET MOUNT DETAIL

REVISIONS				
REVISED BY	REV.	DESCRIPTION	DATE	APPROVED
Ron W.	B	ECN-11, CHG MOUNTING HARDWARE TO METRIC	08/28/13	JCC
Ron W.	C	ECN-58, CHG MTG HARDWARE BACK TO ENGLISH	11/01/13	JCC



THIRD ANGLE PROJECTION CAD		NAME	DATE	AMPHENOL ANTENNA SOLUTIONS 1123 Industrial Drive SW Conover, NORTH CAROLINA 28613 WWW.AMPHENOL-ANTENNAS.COM (828) 324-6971	
DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE ANGULAR: ONE PLACE ±1 TWO PLACE ±0.05 THREE PLACE ±0.010		DRAWN	agutierrez		
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.41-2003		CHECKED			
MATERIAL SEE NOTE FINISH SEE NOTE		ENG APPR.			
DO NOT SCALE DRAWING		MFG APPR.		TITLE: 2-POINT SPACING MOUNTING KIT, SCISSOR	
		Q.A.		SIZE DWG. NO. REV B MKS09T01 C	
		PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AMPHENOL ANTENNA SOLUTIONS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AMPHENOL ANTENNA SOLUTIONS IS PROHIBITED.		SCALE: NTS SHEET 1 OF 1	