

TEM OTY		PARTS LIST					
2 1 X-HDCAMTBW CLAMP WELDMENT FOR BCAM-HD 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 33.86 36.24 38.01 38.01 15.00 38.01 38.01 36.24 38.01 36.24 38.01 38.01 36.24 38.01 38.0	ITEM	QTY	PART NO.	LENGTH	UNIT WT.	NET WT.	
3 1 X-MHTPHD MULTI-HOLE TAPER PLATE WELDMENT 36.24 36.24 4 2 X-VEAPL4 VFA-HD PIVOT PLATE 12 in 15.88 31.77 5 2 X-LCBP4 BENT BACKING PLATE 13 in 19.00 38.01 6 1 X-HDCAMSS ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD 16.39 16.39 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 7 in 4.80 38.37 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 11/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVAN	1	2	X-VFAW	SUPPORT ARM		71.41	142.81
4 2 X-VFAPL4 VFA-HD PIVOT PLATE 12 in 15.88 31.77 5 2 X-LCBP4 BENT BACKING PLATE 13 in 19.00 38.01 6 1 X-HDCAMSS ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD 16.39 16.39 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE <td>2</td> <td>1</td> <td>X-HDCAMTBW</td> <td>CLAMP WELDMENT FOR BCAM-HD</td> <td></td> <td>33.86</td> <td>33.86</td>	2	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
5 2 X-LCBP4 BENT BACKING PLATE 13 in 19.00 38.01 6 1 X-HDCAMSS ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD 16.39 16.39 16.39 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 111.74 8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 40.75 40.75 15 4 A34212	3	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
6 1 X-HDCAMSS ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD 16.39 16.39 16.39 7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 51/2 in 5.87 11.74 8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 150" (2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 150" (2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 15 4 <	4	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
7 2 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 11.74 8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 4 A34212 3/4" X 2-1/2" UNC HEX BOLT (325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34FW 3/4"	5	2	X-LCBP4	BENT BACKING PLATE	13 in	19.00	38.01
8 1 X-HDCAMSP POSITIONING PLATE WELDMENT FOR BCAM-HD 2.58 2.58 9 2 X-TBCA TIE BACK CLIP ANGLE 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 15 4 A34212 3/4" X 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18	6	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
9 2 X-TBCA TIE BACK CLIP ANGLE 7 2.01 4.01 10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 4 A34212 3/4" X 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" X 8" THREADED ROD (HDG.) 1.05 <td>7</td> <td>2</td> <td>X-SPTB</td> <td>SLIDING PIPE TIE BACK PLATE</td> <td>5 1/2 in</td> <td>5.87</td> <td>11.74</td>	7	2	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	11.74
10 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 11 2 MCP	8	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
11 2 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 7.19 12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 150 in 40.75 40.75 15 4 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG LOCKWASHER 0.06 0.24 17 4 G34LW 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 18" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 4" THREADED ROD (HDG.) 1.15 4.60 23 4 X-UB5300 5/8" x 4" THREADE GALT (HDG.)	9	2	X-TBCA	TIE BACK CLIP ANGLE		2.01	4.01
12 4 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.36 9.45 13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 4 A34212 3/4" X 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 3" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" x 2" HDG HEX BOLT GR5 1.00	10	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
13 2 P30150 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE 150 in 76.94 153.87 14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 4 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 0.70 1.39 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5268 5/8" X 2" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 <	11	2	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	7.19
14 1 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 40.75 15 4 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 2" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" * THREADED ROD (HDG.) 0.70 1.39 23 4 X-UB5258 5/8" x 2" * 5/4" x 2-1/2" U-BOLT (HDG.) 1.15 4.60 24 2 G5807 5/8" x 2" * 5/4" x 2" U-BOLT (HDG.) 1.00 4.00 24 2	12	4	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	9.45
15 4 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 1.92 16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" X 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" x 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A	13	2	P30150	2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE	150 in	76.94	153.87
16 4 G34FW 3/4" HDG USS FLATWASHER 0.06 0.24 17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" x 2-5/8" x 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 4" HDG HEX BOLT GR5 0.62 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 21/4 in 0.31 2.50 28 <t< td=""><td>14</td><td>1</td><td>P2126</td><td>2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE</td><td>126 in</td><td>40.75</td><td>40.75</td></t<>	14	1	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	40.75
17 4 G34LW 3/4" HDG LOCKWASHER 0.04 0.17 18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 0.44 1.78 27 8 A582114 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 0.27	15	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
18 4 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 0.85 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 12" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2" HDG HEX BOLT GR5 0.21/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 2	16	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" x 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 <	17	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
20 2 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 2.09 21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG HEX BOLT GR5 0.03 1.30 <td< td=""><td>18</td><td>4</td><td>G34NUT</td><td>3/4" HDG HEAVY 2H HEX NUT</td><td></td><td>0.21</td><td>0.85</td></td<>	18	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
21 2 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 1.39 22 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2" HDG HEX BOLT GR5 0.21 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.74 23.64 32	19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
22 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" X 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" X 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64	20	2	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
23 4 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 4.00 24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEX V2 H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" x 3" x 5" x 2" GALV U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG HEAVY 2H HEX NUT 0.09 9.56	21	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
24 2 G5807 5/8" x 7" HDG HEX BOLT GR5 FULL THREAD 7 in 0.70 1.41 25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 1/8 in 0.01 0.89 <td< td=""><td>22</td><td>4</td><td>X-UB5300</td><td>5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)</td><td></td><td>1.15</td><td>4.60</td></td<>	22	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
25 1 G5806 5/8" x 6" HDG HEX BOLT GR5 FULL THREAD 6 in 0.62 0.62 26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36	23	4	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	4.00
26 4 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 1.78 27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	24	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
27 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	25	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
28 2 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 0.54 29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	26	4	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	1.78
29 15 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.06 30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	27	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
30 50 G58LW 5/8" HDG LOCKWASHER 0.03 1.30 31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	28	2	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	0.54
31 53 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 6.88 32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	29	15	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.06
32 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	30	50	G58LW	5/8" HDG LOCKWASHER		0.03	1.30
33 16 X-UB1212 1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.) 0.60 9.56 34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	31	53	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	6.88
34 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	32	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
35 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	33	16	X-UB1212	1/2" X 2" X 3" X 1-1/4" U-BOLT (HDG.)		0.60	9.56
36 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	34	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
	35	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
TOTAL WT. # 621.66	36	64 G12NUT 1/2" HDG HEAVY 2H HEX NUT					4.58
						TOTAL WT. #	621.66

B UPDATED BCAM VERSION 1 TO BCAM VERSION 2 CEK 6/29/2018 A UPDATED ANGLE CALIBRATING PROCEDURE PAGE 2 CEK 12/12/2017 REV DESCRIPTION OF REVISIONS CPD BY DATE REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (\$ 0.030") ORILLED AND GAS CUT HOLES (\$ 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (\$ 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE:
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ROUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF
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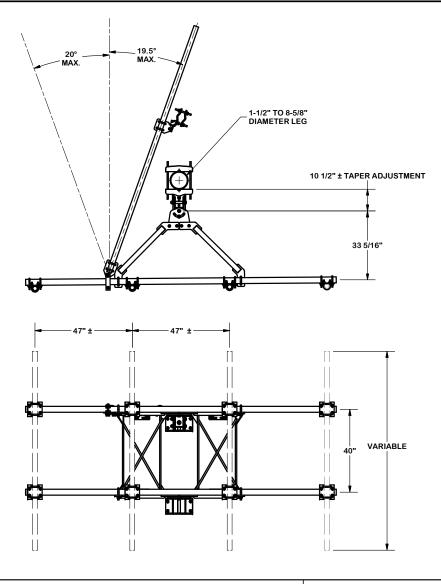
DESCRIPTION

12' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH ONE STIFF ARMS



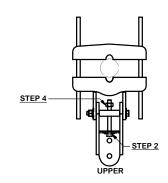
Engineering Atlanta, GA
Support Team: Los Angeles, CA
1-888-753-7446
Salem, OR
Dallas, TX

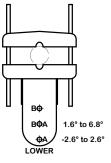
CPD NO.		0.	DRAWN BY	ENG. APPROVAL	PART NO.	_
			CEK 7/3/2017		VFA12-HD-S	0 }
	CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	TH S
'	81	02	CUSTOMER	BMC 12/12/2017	VFA12-HD-S	4

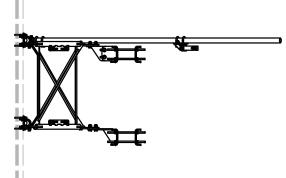


ANGLE CALIBRATING PROCEDURE:

- 1. MEASURE TOWER TAPER AND PICK LOWER BRACKET HOLE:
 - HOLE A = -2.6° TO 2.6°
 - HOLE B = 1.6° TO 6.8°
- 2. USE CALIBRATING BOLT TO ADJUST FRAME TO **DESIRED TAPER**
- 3. TORQUE LOCKING BOLTS TO 100 ft.-lbs.
- 4. ADVANCE LOCKING NUT TO POSITIONING PLATE. THEN TIGHTEN.







TOLERANCE NOTES

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BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030")

ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION 12' 6" HEAVY DUTY V-FRAME ASSEMBLY

WITH ONE STIFF ARMS



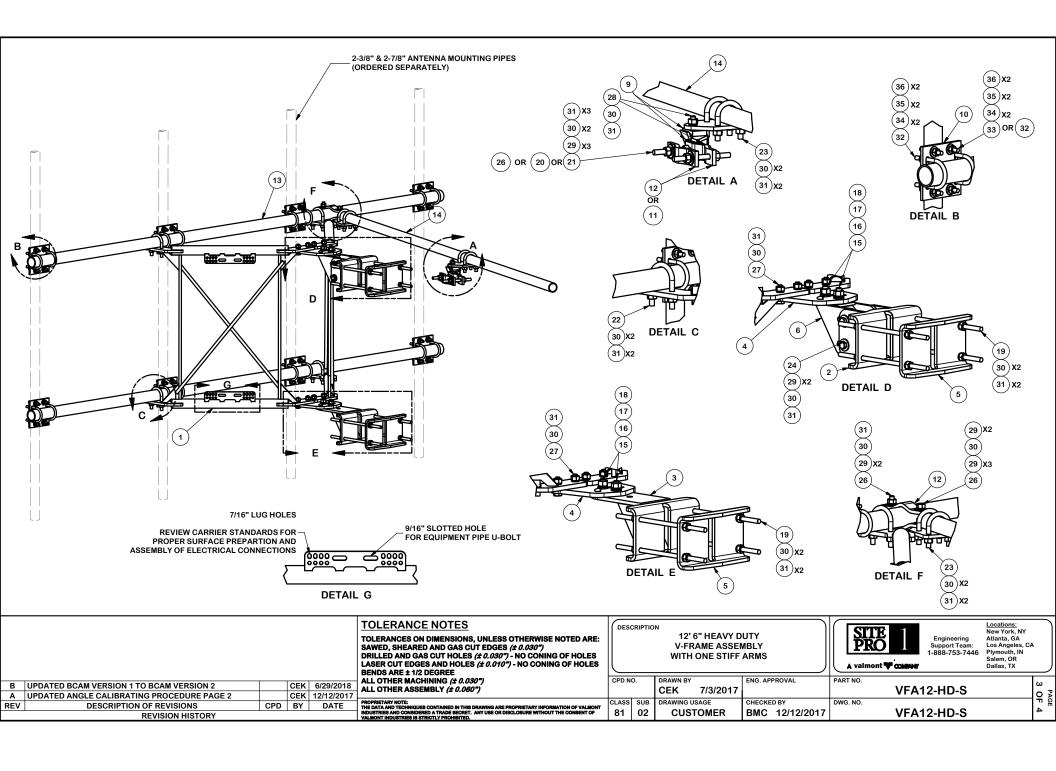
Engineering Support Team: 1-888-753-7446

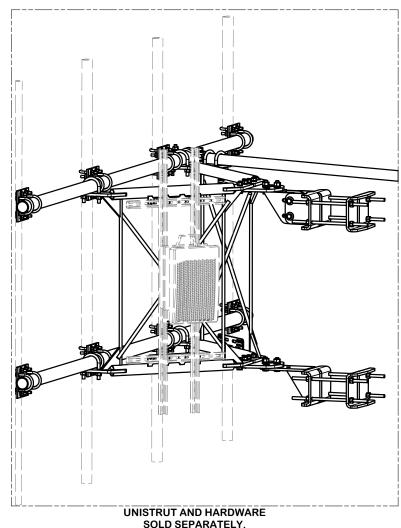
Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN

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			CEK 7/3/2017		VEA12-HD-S	∾ o }
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T	81	02	CUSTOMER	BMC 12/12/2017	VFA12-HD-S	4

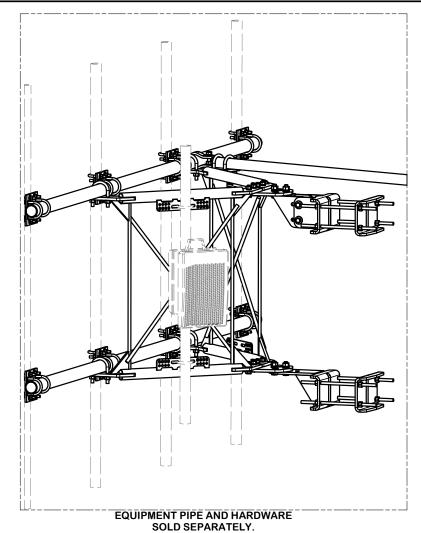
B UPDATED BCAM VERSION 1 TO BCAM VERSION 2 CEK 6/29/2018 A UPDATED ANGLE CALIBRATING PROCEDURE PAGE 2 CEK 12/12/2017 REV DESCRIPTION OF REVISIONS CPD BY DATE

REVISION HISTORY





REQUIRES 3/8" HARDWARE



REQUIRES 1/2" HARDWARE AND 2-3/8" TO 4-1/2" O.D. PIPE

TOLERANCE NOTES

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ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION 12' 6" HEAVY DUTY V-FRAME ASSEMBLY

WITH ONE STIFF ARMS

Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX

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			CEK 7/3/2017		VFA12-HD-S	- 0 }
	CLASS	SUB	DRAWING USAGE	CHECKED BY	DWG. NO.	LI E
'	81	02	CUSTOMER	BMC 12/12/2017	VFA12-HD-S	4

B UPDATED BCAM VERSION 1 TO BCAM VERSION 2 CEK 6/29/2018 A UPDATED ANGLE CALIBRATING PROCEDURE PAGE 2 CEK 12/12/2017 DESCRIPTION OF REVISIONS CPD BY DATE REVISION HISTORY