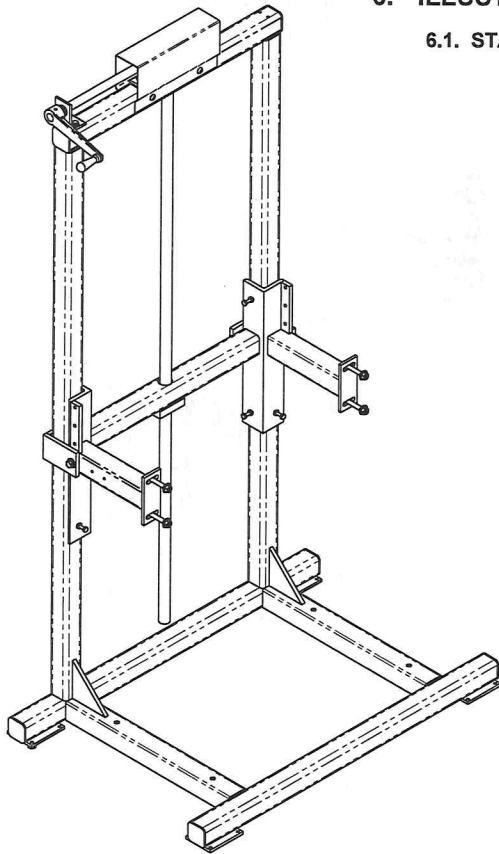


HAS 220

6. ILLUSTRATED PARTS LIST

6.1. STAND ASSEMBLY



AS ASSEMBLED

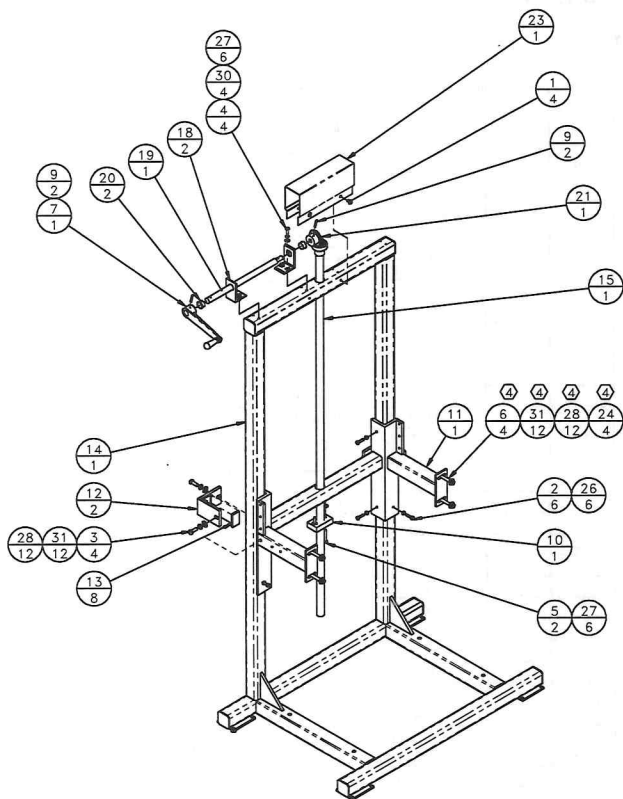
Figure 6-1: Stand Assembly

REV.	ECO#	DESCRIPTION	INITIALS	DATE
4	173528	ADDED 54709 MOUNTING FASTENERS	DD	2/7/2018
5	6477	REM'D HA0026-4, H5161834SS, WF516SS, WL516SS	DD	9/24/2018

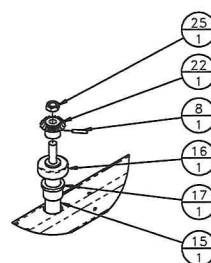
ITEM	QTY	PART NUMBER	DESCRIPTION
31	12	WL38SS	WASHER, LOCK 3/8 SS
30	4	WL14SS	WASHER, LOCK 1/4 SS
29	1	WF516SS	WASHER, FLAT, 5/16 SS
28	12	WF38SS	WASHER, FLAT 3/8, SS
27	6	WF14SS	WASHER, FLAT 1/4 SS
26	6	NJ1420SS	NUT, HEX JAM 1/4-20 UNC SS
25	1	NJ1213SS	NUT, HEX JAM 1/2-13 UNC, SS
24	4	NH3816SS	NUT, HEX 3/8-16 UNC SS
23	1	HA12865	GUARD, LIFT STAND
22	1	HA12864	MITER GEAR, MALL LIFT STAND
21	1	HA12863	MITER GEAR LARGE LIFT STAND
20	2	HA12862	FLANGE BUSHING
19	1	HA12861	SHAFT, LIFT STAND
18	2	HA12860	BRACKET
17	1	HA12141	BUSHING
16	1	HA12140	BEARING, THRUST
15	1	HA12139	LIFT SCREW
14	1	HA12136	STAND, HOT AIR SEALER
13	8	HA12133	WEAR PAD
12	2	HA12132	CLAMP PLATE
11	1	HA12131	LIFT ARM, WELDMENT
10	1	HA11761	LIFT BLOCK
9	2	HA2633	ROLL PIN, 3/16 X 1 1/4(L), SS
8	1	HA2632	ROLL PIN, 3/16 X 1(L), SS
7	1	HA0033	HOISTING CRANK
6	4	H3816212SS	BOLT, HEX HD 3/8-16 X 2 1/2 SS
5	2	H1420134SS	BOLT, HEX HD 1/4-20 X 1 3/4 SS
4	4	H142034SS	BOLT, HEX HD 1/4-20 X 3/4 SS
3	4	H38161SS	BOLT, HEX HD 3/8-16 X 1 SS
2	6	H14201	BOLT, HEX HD 1/4-20 X 1 CZ G5
1	4	903526	SCREW,TRUSS 1/4-20 X 1/2 SS

NOTE: SPECIFICATION PRETIVES AS LISTED (PUB) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE		1. REMOVE ALL BURRS & SHARP EDGES 2. FILE ALL TAPS BEFORE FINISH 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			THE INFORMATION CONTAINED IN THIS DOCUMENT SHALL BE REPRODUCED OR QUOTED IN WHOLE OR PART, WITHOUT SPECIAL AUTHORIZATION FROM HAMER-FISCHBEIN, LLC
(PUB) SEC. BOM	MATERIAL	TOLERANCE DECIMAL .XX .01 .001 DECIMAL .XX .005 .0127 FRACTIONS 30 MINUTES PRIMARY UNITS IN INCH DIM DD UNLESS OTHERWISE SPECIFIED 125 Microinch .0025mm	SCALE 1:8 SIZE B DATE 7/12/2016 SHEET 1 of 2		

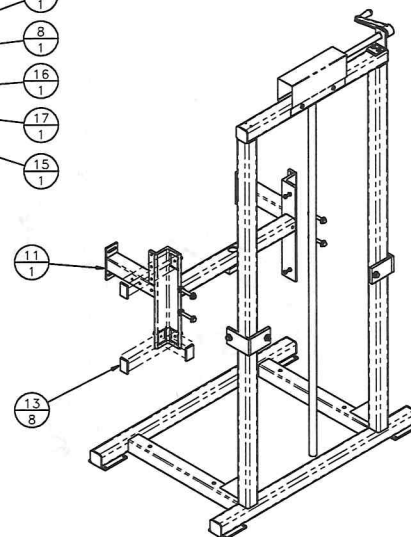
REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet1	-	-
-	-	See Sheet1	-	-



CRANK HANDLE ASSEMBLY

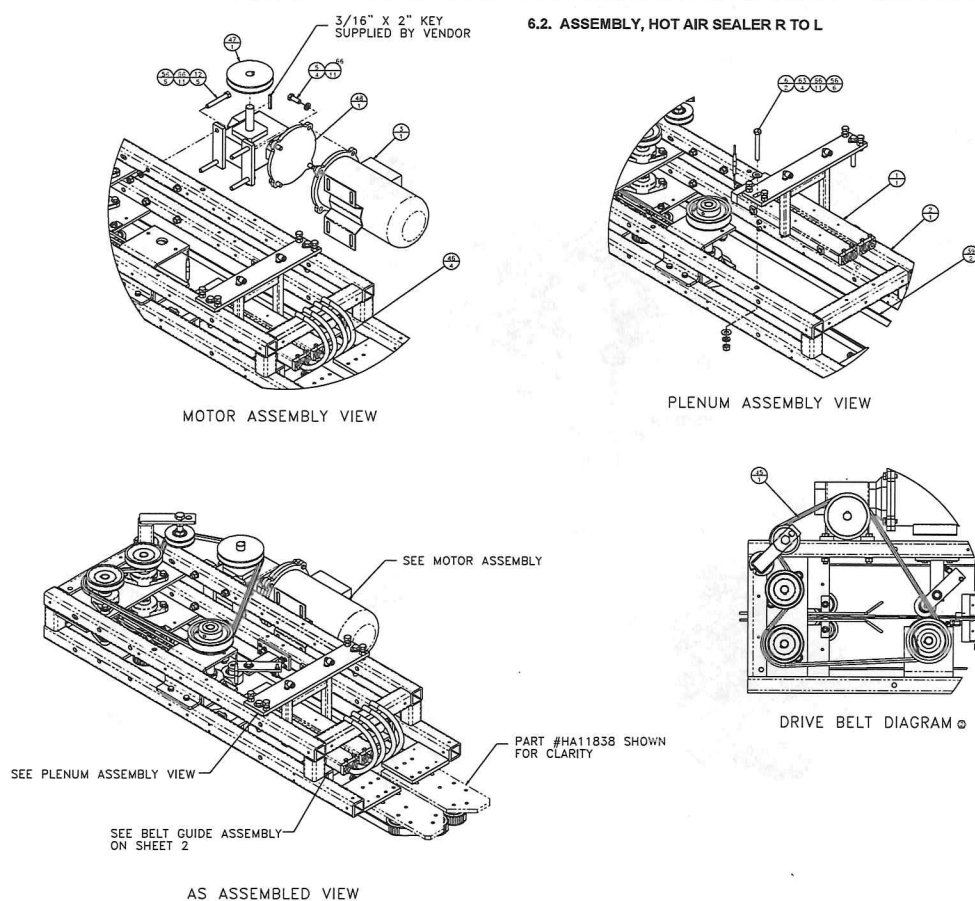


LIFT SCREW ASSEMBLY
SCALE 1 : 6



LIFT ARM PAD ASSEMBLY

[illegible]



REV.	DATE	DESCRIPTION	BY	CHKD
1	10/28/88	NEW P/N 81188	CHANDLER	
2	4/27/89	REWORKING DATA, REV. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	CHANDLER	

NOTE:
1. PART # HA11763 NOT SHOWN.

67	23	HA11555	WASHER LOCK 5/16 SS
68	11	HA1350	WASHER LOCK 5/16 SS
69	8	HA1455	WASHER LOCK 1/4 SS
70	11	HA1555	WASHER FLAT 5/16 SS
71	4	HA1655	WASHER FLAT 5/8 SS
72	18	HA1755	WASHER FLAT 1/4 SS
73	8	HA1855	SCREW SET 5/16-18 X 3/8
74	2	HA1955	SCREW SET 1/4-20 X 1/4 SS
75	4	HA2055	SCREW SET 1/4-20 X 5/8 SS
76	1	HA2155	SCREW PAN HD #10-24 X 1-1/2 SS
77	4	HA2255	NUF. HEX JAW 5/16-18 SS
78	6	HA2355	NUF. HEX 3/16-18 UNC SS
79	1	HA2455	NUF. HEX 1/4-20 UNC SS
80	3	HA2555	NUF. HEX 1-2-15 UNC
81	1	HA2655	NUF. HEX #10-24 UNC SS
82	1	HA2755	FILM GUIDE, RIGHT
83	1	HA2855	FILM GUIDE, LEFT
84	1	HA2955	PHOTO. ROLLER BRACKET ASSEMBLY
85	4	HA3055	BELT BRUSH WELDED
86	1	HA3155	REDUCER, GEAR BOX
87	1	HA3255	SHAFT
88	4	HA3355	HEATER ASSEMBLY
89	1	HA3455	HEX BOLT
90	1	HA3555	ROLLER SHIFTER SPACER
91	1	HA3655	ROLLER SHIFTER, ECCENTRIC DRIVE
92	2	HA3755	W-BELT SHAFT
93	1	HA3855	ROLLER SHIFTER
94	1	HA3955	STANDARD ROLLER SHIFTER
95	2	HA4055	BELT SPROCKET
96	1	HA4155	STANDARD, ECCENTRIC
97	1	HA4255	ECCENTRIC ROLL
98	6	HA4355	PULLEY ASSEMBLY/ROLLER
99	2	HA4455	DRIVE PULLEY, DRIVE PLATED
100	2	HA4555	BELT GUIDE
101	1	HA4655	EXTENSION SPRING
102	1	HA4755	WINDING SPRING ASSEMBLY
103	1	HA4855	COMPRESSOR ROLLER
104	1	HA4955	WINDING WHEEL (DRIVE)
105	2	HA5055	DRIVE SHAFT
106	1	HA5155	WINDING SHAFT
107	1	HA5255	WINDING PULLEY
108	1	HA5355	TENSILE ROLL
109	1	HA5455	ROLLER PULLEY-CLAMP
110	5	HA5555	ROLLER, ROLLER
111	8	HA5655	BEARING, FILM FEED
112	1	HA5755	ROLLER SPACER
113	2	HA5855	SPRING HEAT SEAL
114	4	HA5955	SHIELD GUIDE PIN
115	6	HA6055	KEY 3/16 X 1 1/2 X 1/2
116	1	HA6155	KEY 3/16 X 1 1/2 X 1/2
117	1	HA6255	KEY 3/16 X 1 1/2 X 1/2
118	1	HA6355	KEY 3/16 X 1 1/2 X 1/2
119	1	HA6455	KEY 3/16 X 1 1/2 X 1/2
120	1	HA6555	KEY 3/16 X 1 1/2 X 1/2
121	1	HA6655	KEY 3/16 X 1 1/2 X 1/2
122	1	HA6755	KEY 3/16 X 1 1/2 X 1/2
123	1	HA6855	KEY 3/16 X 1 1/2 X 1/2
124	1	HA6955	KEY 3/16 X 1 1/2 X 1/2
125	1	HA7055	KEY 3/16 X 1 1/2 X 1/2
126	1	HA7155	KEY 3/16 X 1 1/2 X 1/2
127	1	HA7255	KEY 3/16 X 1 1/2 X 1/2
128	1	HA7355	KEY 3/16 X 1 1/2 X 1/2
129	1	HA7455	KEY 3/16 X 1 1/2 X 1/2
130	1	HA7555	KEY 3/16 X 1 1/2 X 1/2
131	1	HA7655	KEY 3/16 X 1 1/2 X 1/2
132	1	HA7755	KEY 3/16 X 1 1/2 X 1/2
133	1	HA7855	KEY 3/16 X 1 1/2 X 1/2
134	1	HA7955	KEY 3/16 X 1 1/2 X 1/2
135	1	HA8055	KEY 3/16 X 1 1/2 X 1/2
136	1	HA8155	KEY 3/16 X 1 1/2 X 1/2
137	1	HA8255	KEY 3/16 X 1 1/2 X 1/2
138	1	HA8355	KEY 3/16 X 1 1/2 X 1/2
139	1	HA8455	KEY 3/16 X 1 1/2 X 1/2
140	1	HA8555	KEY 3/16 X 1 1/2 X 1/2
141	1	HA8655	KEY 3/16 X 1 1/2 X 1/2
142	1	HA8755	KEY 3/16 X 1 1/2 X 1/2
143	1	HA8855	KEY 3/16 X 1 1/2 X 1/2
144	1	HA8955	KEY 3/16 X 1 1/2 X 1/2
145	1	HA9055	KEY 3/16 X 1 1/2 X 1/2
146	1	HA9155	KEY 3/16 X 1 1/2 X 1/2
147	1	HA9255	KEY 3/16 X 1 1/2 X 1/2
148	1	HA9355	KEY 3/16 X 1 1/2 X 1/2
149	1	HA9455	KEY 3/16 X 1 1/2 X 1/2
150	1	HA9555	KEY 3/16 X 1 1/2 X 1/2
151	1	HA9655	KEY 3/16 X 1 1/2 X 1/2
152	1	HA9755	KEY 3/16 X 1 1/2 X 1/2
153	1	HA9855	KEY 3/16 X 1 1/2 X 1/2
154	1	HA9955	KEY 3/16 X 1 1/2 X 1/2
155	1	HA10055	KEY 3/16 X 1 1/2 X 1/2

REV.	DATE	DESCRIPTION	BY	CHKD
1	10/28/88	NEW P/N 81188	CHANDLER	
2	4/27/89	REWORKING DATA, REV. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	CHANDLER	

Figure 6-2: Assembly, Hot Air Sealer

6.3. PANEL ARM ASSEMBLY R TO L

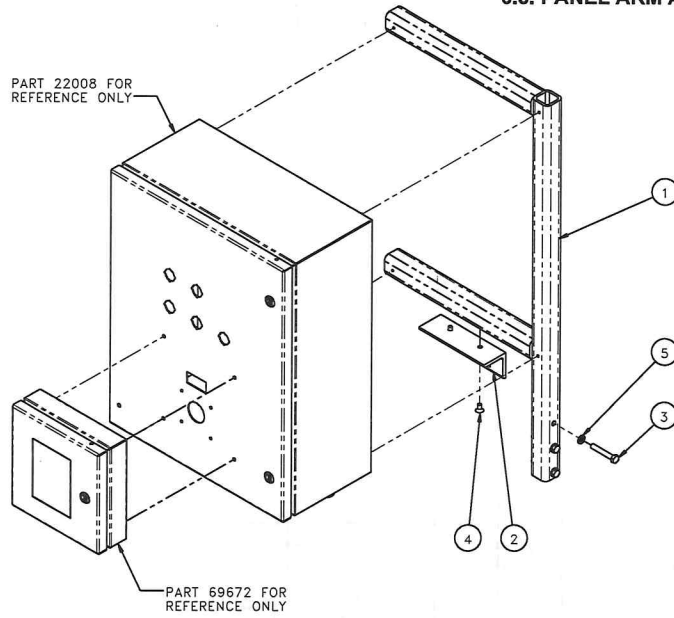


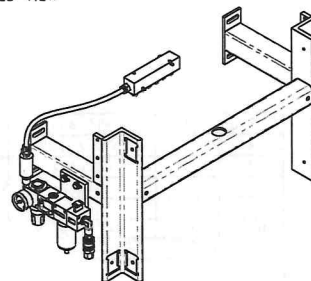
Figure 6-3: Panel Arm Assembly

REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	173528	NEW PART RELEASE		12/05/2017

- NOTE:
1. MOUNTING HARDWARE PROVIDED WITH 22008 & 69672.
 2. FOR L TO R FEED MOUNT PARTS ON OPPOSITE SIDE OF FRAME.

ITEM	QTY	PART NUMBER	DESCRIPTION
5	3	WL516SS	WASHER, LOCK, 5/16 SS
4	2	SF142012SS	SCREW, SOC FLAT 1/4-20 X 1/2 SS
3	3	H516182	BOLT, HEX HD 5/16-18 X 2 CZ G5
2	1	54907	MANIFOLD ANGLE SUPPORT
1	1	54905	CONTROL BOX MOUNT
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PRIORITIES AS LISTED (PUP) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE 1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT TREATMENT 3. ALL FINISHES APPLY AFTER PAINT TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS DATE: SEE BOM MATERIAL: FINISH/COATING: HEAT TREAT: UNLESS OTHERWISE SPECIFIED ✓ 100% MAGNETIC 2024-T3			
		TOLERANCE INCH .001 DECIMAL .XX .02 .01 DECIMAL .XXX .002 .001 FRACTIONS 30 MINUTES PRIMARY UNITS IN INCH	1:6 SIZE B RDV
		PANEL ARM ASSEMBLY, R TO L DESCRIPTION PART NO. 54906 DATE 10/13/2016 1 of 1 1	

SLV	ECN	CHANGES	DATE	DR	CK
4	9477	RFMD, COCHING W. COFFER OPTION 17WS, 17027, H43633, 428613, F4235	6/10/2018	FF	
5	0031	K-V/E 018033, L11J5, 5L128E, 9C111, F4376, F4388, P486	7/20/2018	CL	



AS ASSEMBLED

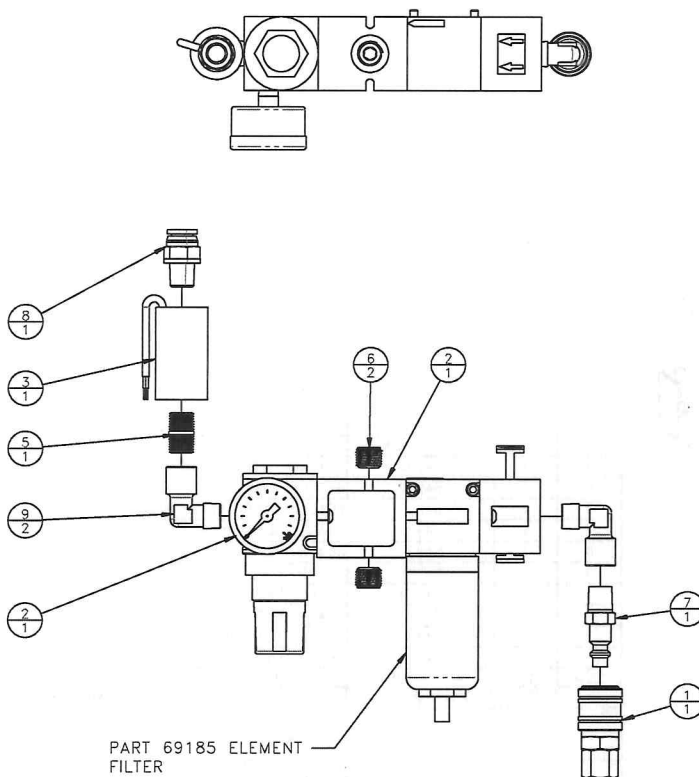
11	2	WL14SS	WASHER, LOCK 1/4 SS
10	2	WF14SS	WASHER, FLAT 1/4 SS
9	2	SC1032112	SCREW, SOC CAP #10-32 X 1 1/2 BO
8	1	P4969	TUBING POLY RED 3/8 OD
7	1	HA0967	PNEUMADYNE MANIFOLD
6	2	H142034SS	BOLT, HEX HD 1/4-20 X 3/4 SS
5	1	901312	PLUG, 3/8" NPT HEX SOCKET, BRASS
4	1	802962	FITTING, MALE CONN 3/8 M X 3/8 T
3	6	802122	FITTING,MALE CONN.1/4T X 1/4NPT
2	1	54913	ASSY, FILTER, REGULATOR 0-125, DIVERTER, R TO L
1	1	54911	PLATE, VALVE MOUNTING SUPPORT
ITEM	QTY	PART NUMBER	DESCRIPTION

MODEL SPECIFICATION PRELIMAS AS LISTED (PDS) PURCHASED FROM VENDOR (MFG) MANUFACTURED INHOUSE		 THE INFORMATION PROVIDED ON THIS DOCUMENT CANNOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.	
Q102 SEE SCOM	1. REMOVE ALL BUREL & SHARP EDGES 2. REMOVE ALL BURRS & SHARP EDGES 3. POLISH SURFACES AS APPLY AFTER FINISH SURFACE 4. TAPE PART NUMBER AS LOCATED PARTING 5. CONSULTING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS	TOLERANCE INCH .001 DECIMAL .001 DECIMAL .001 DIMS 30 MINUTES PRIMARY UNITS IN INCH	
Q102	TOLERANCE INCH .001 DECIMAL .001 DECIMAL .001 DIMS 30 MINUTES PRIMARY UNITS IN INCH	RATIO 1:8 SIZE B	ASSEMBLY, REGULATOR, HAS220, P 10
FINISH/PROCESS	UNLESS OTHERWISE SPECIFIED 1. 0.001" Tolerance 2. 12/15/2017	PART NAME 12/15/2017	54908 1 of 1 5

Figure 6-4: Assembly Regulator

6.5. ASSY, FILTER, REGULATOR 0-125, DIVERTER, R TO L

REV.	ECO#	DESCRIPTION	INITIALS	DATE
2	6241	ROTATED 54912 TO MATCH VENDOR ASSEMBLY	DD	7/24/2018
3	6637	ADDED 10718, 67706, 901288, 901311, P4945, P4966, P4987	DD	11/20/2018

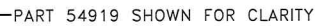


PART 69185 ELEMENT
FILTER

Figure 6-5: Assembly Filter Regulator

ITEM	QTY	PART NUMBER	DESCRIPTION
9	2	P4987	FITTING, STREET ELBOW 1/4 NPT
8	1	P4966	FITTING, MALE CONN 1/4 NPT X 3/8 T
7	1	P4945	FITTING, MALE COUPLER, 1/4 NPT
6	2	901311	PLUG, 1/4\" NPT HEX SOCKET
5	1	901288	NIPPLE, PIPE, BRASS, 1/4 X CLOSE
2	1	69321	ASSY, FILTER, REGULATOR 0-125, DIVERTER
3	1	67706	SENSOR, AIR FLOW, CHEM-TEC 375
2	1	54912	DIVERTER BLOCK (PARKER #DK3510-3-2)
1	1	10718	FITTING, SOCKET COUPLING 1/4 NPT
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PRETEXTS AS LISTED (P/N) PURCHASED FROM VENDOR (MFG) MANUFACTURED BY—HUSCO			
1. REMOVING ALL BURRS & CHIPS—HUSCO 2. P. ALL TAPS BEARING POINT 3. ALL SURFACES APPLY OTHER FINAL SURFACE TREATMENT 4. ASSEMBLY PART WITH NUMBER AT LOCATING SURFACE 5. DIMENSIONS APPLIED, FINISHED FOR ALTERNATE CONSTRUCTION METHODS			
TOLERANCE INCH MM SCALE 1:2 DECIMAL .XX .002 .001 DECIMAL .XXX .005 .002 DIMENSIONAL .XXX .005 .002 DIMENSIONAL .XXX .005 .002			
PRIMARY UNITS INCH SIZE DD UNITS DD UNITS DD			
UNLESS OTHERWISE SPECIFIED 125 MICRON .002mm 125 MICRON .002mm			
HAMER FISCHBEIN ASSY, FILTER, REGULATOR 0-125, DIVERTER, R TO L 54913 12/12/2017 1 of 1 3			

REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	173528	NEW PART RELEASE		2/6/2018



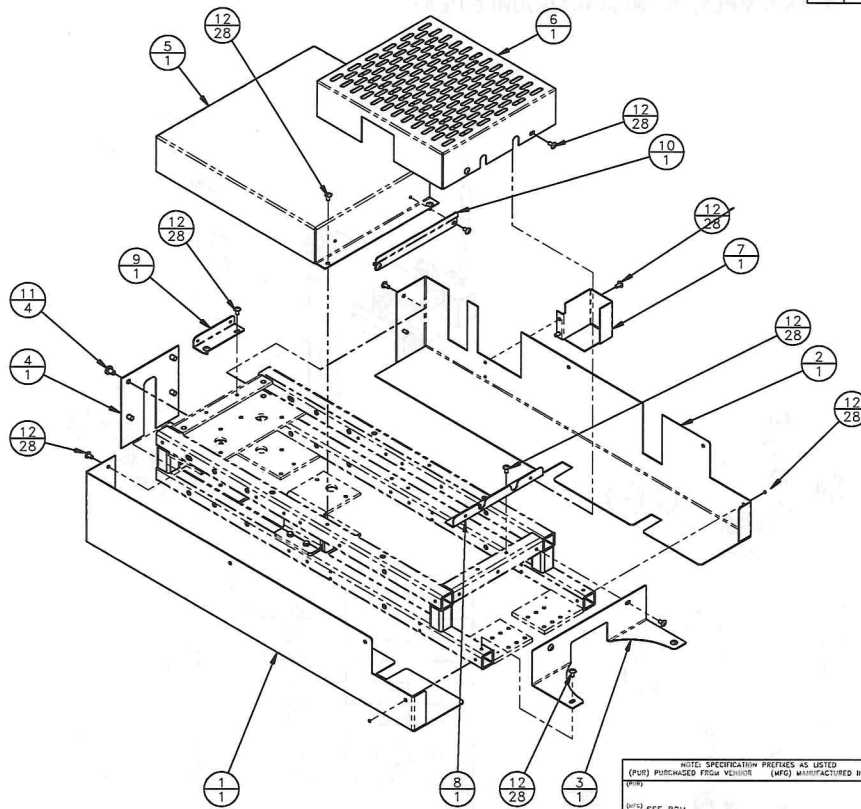
AS ASSEMBLED

12	28	T14205	SCREW, 1/4~20X1/2,PH TRUSS HD SS
11	4	PH381612SS	PAN HD PHILIPS, 3/8~16 X 1/2, SS
10	1	54930	BRACKET, PERFORATED COVER RETAINING
9	1	54929	BRACKET, PULLEY COVER RETAINING
8	1	54928	BRACKET, WIRE RETAINING
7	1	54927	GUARD, GEARBOX SHAFT, RH FEED
6	1	54926	GUARD, PERFORATED COVER
5	1	54925	GUARD, PULLEY COVER, RH INFEEED
4	1	54924	GUARD, REMOVABLE, INKLESS CODER
3	1	54923	GUARD, FRONT INFEEED
2	1	54922	GUARD, REAR SIDE, RH FEED
1	1	54921	GUARD, FRONT SIDE, RH FEED
ITEM	QTY	PART NUMBER	DESCRIPTION

[illegible]

Figure 6-6: Assembly Safety Guards

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-



NOTED: SPECIFICATION PREFIXES AS LISTED (P) PURCHASED FROM VENDOR (MFG) MANUFACTURED BY-HAMER				1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS				 THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR PART, WITHOUT SPECIFIC AUTHORIZATION FROM HAMER-FISCHBEIN, INC.							
(P) SEC BOM															
MATERIAL				TOLERANCE				INCH		MM		SCALE		1:8	
(P) SEC				DIGITAL .XX				±.02		±.51		SCALE		B	
(P) SEC				DIGITAL .XX				±.02		±.51		SCALE		B	
(P) SEC				ANGLES				30 MINUTES				SIZE		B	
(P) SEC				PRIMARY UNITS				INCH				CON		DD	
UNLESS OTHERWISE SPECIFIED				QTY				0.000		762.0 mm		DATE		2/6/2018	
HEAT TREAT				QTY				125		Milli-inches .0025mm		SHEET		2 of 2	
												REV		1	

6.7. ASSEMBLY, PLENUM 14" DOUBLE HEATER

REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	6477	NEW PART RELEASE		9/18/2018

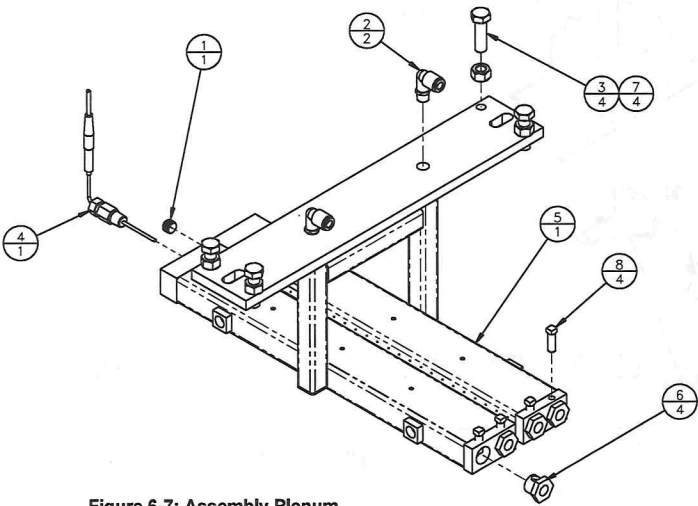
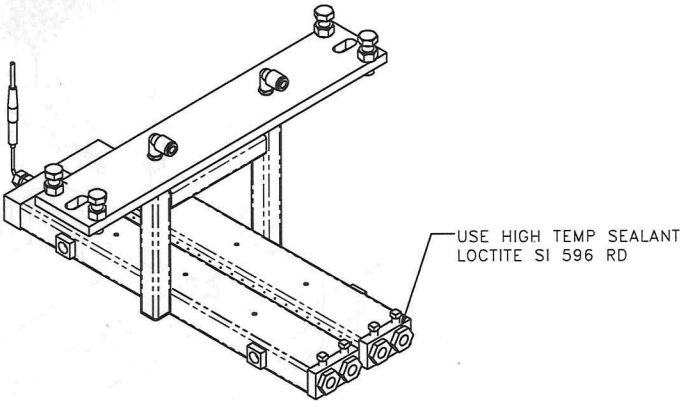


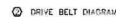
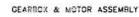
Figure 6-7: Assembly Plenum



AS ASSEMBLED

8	4	SSSQ142034	SCREW,SQ SET 1/4-20 X 3/4
7	4	NH3816SS	NUT, HEX 3/8-16 UNC SS
6	4	HA11812	HEATER BUSHING
5	1	HA11781	PLENUM, 14" DOUBLE
4	1	HA11714	THERMOCOUPLE
3	4	H3816114SS	BOLT, HEX HD 3/8-16 X 1 1/4 SS
2	2	901076	ELBOW, .12NPT-.25TUBE
1	1	54798	PLUG; ALLENHEAD: SS: 1/8 NPT
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PRETIVES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE			
1.REQUIRE ALL BURNS & SHARP EDGES 2.POLISH ALL TAPS BEFORE PAINT 3.ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4.STAMP PART WITH NUMBER AT LOCATION SHOWN 5.ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			
THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT SPECIFIC AUTHORIZATION FROM HAMER-FISCHBEIN, LLC			
MATERIAL		TOLERANCE	INCH
FINISH/COATING		DECIMAL	INCH
HEAT TREAT		UNLESS OTHERWISE SPECIFIED	
		1/125 Maximum .0022mm	
		SCALE	1:3
		SIZE	B
		DD	DD
		PART NO. 54914	54914
		DATE	9/18/2018
		SHEET	1 of 1
		REV.	1

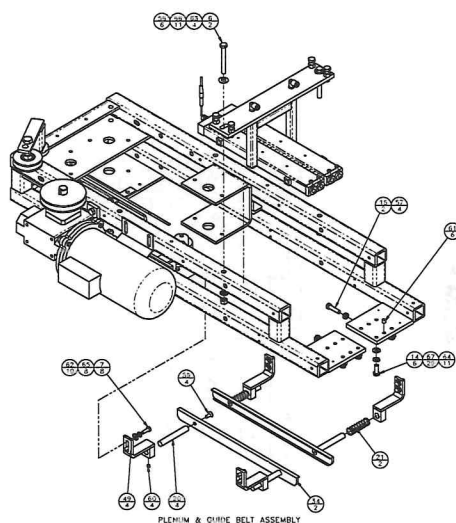
REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	170208	NEW PART RELEASE		2/11/2008
2	4077	"SANTA MONICA WAY" 100' X 114' 6" NEW THUNDERBOLT BRIDGE (4' 10" WIDE X 10' 11" HIGH) 100' X 114' 6" BRIDGE (4' 10" WIDE X 10' 11" HIGH)	DD	4/14/2008



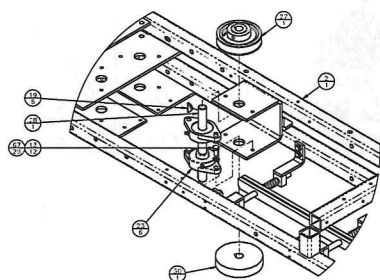
67	29	WA551055	DISCERN, LUGR, 5/16 X 55
68	11	WA8292	WASHER, LUGR, 5/16 X 55
69	3	WA1362	WASHER, LUGR, 5/16 X 55
70	13	WA551055	DISCERN, FLAT, 5/16 X 55
71	4	WA8292	WASHER, FLAT, 5/16 X 55
72	10	WA1362	WASHER, FLAT, 5/16 X 55
73	61	WA551038	DISCERN, SCOT 5/16x18 X 1/4
74	4	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
75	30	WA551038	DISCERN, SCOT 5/16x20 X 3/8 X 55
76	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
77	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
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96	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
97	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
98	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
99	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55
100	51	WA551045	DISCERN, SCOT 5/16x20 X 3/8 X 55

6-11

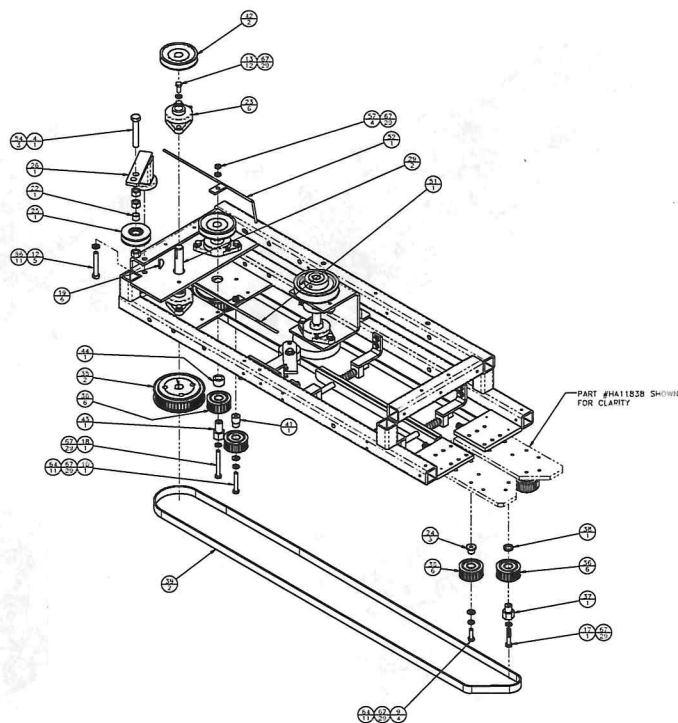
REV.	DATE	DESCRIPTION	BY	CHK.
1	01/11/11	REVISED		
2	01/11/11	REVISED		



PLENUM & CYRINE BELT ASSEMBLY



KNURL WHEEL ASSEMBLY



TENSINER & BELT PULLEY ASSEMBLY

1	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	1	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
2	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	2	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
3	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	3	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
4	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	4	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
5	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	5	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
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13	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	13	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
14	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	14	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
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18	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	18	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
19	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	19	1/2" DIA. X 1/4" THICK ALUMINUM PLATE
20	1/2" DIA. X 1/4" THICK ALUMINUM PLATE	20	1/2" DIA. X 1/4" THICK ALUMINUM PLATE

REV.	ECO#	DESCRIPTION	INITIALS	DATE
4	6477	REM'D COOLING & CORDER OPTION VIEWS, 17027, H40633, H492413, P4965	DD	9/20/2018
5	6637	REMOVED 1071888, 67706, 901288, 901311, P4945, P4966, P4987	DD	11/19/2018

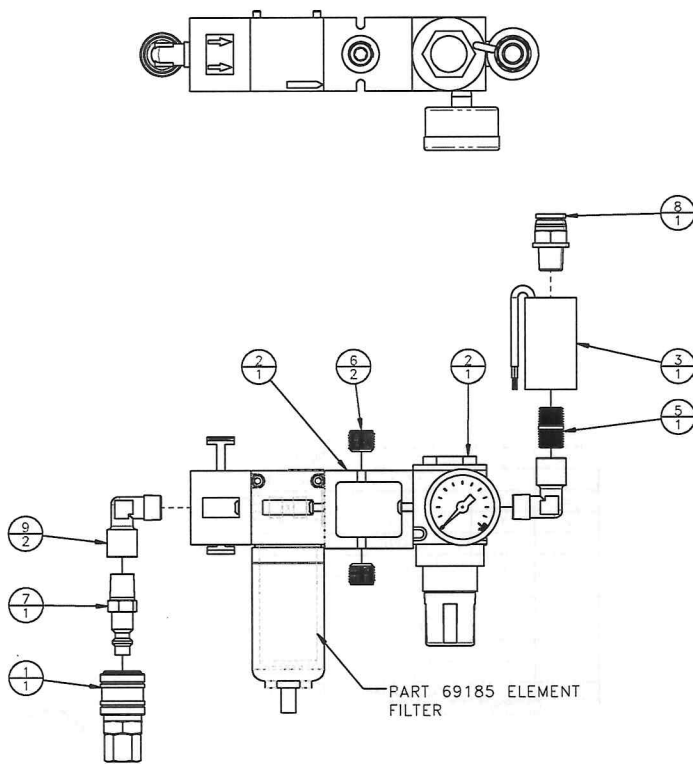


Figure 6-9: Assembly Regulator

01	2	WL14SS	WASHER, LOCK 1/4 SS								
10	2	WL14SS	WASHER, FLAT 1/4 SS								
9	2	SC1032112	SCREW, SOC CAP #10-32 X 1 1/2 BO								
8	1	P4969	TUBING POLY RED 3/8 OD								
7	1	HA0967	PNEUMADYNE MANIFOLD								
6	2	H142034SS	BOLT, HEX HD 1/4-20 X 3/4 SS								
5	1	901312	PLUG, 3/8" NPT HEX SOCKET, BRASS								
4	1	802962	FITTING, MALE CONN 3/8 M X 3/8 T								
3	6	802122	FITTING, MALE CONN, 1/4 X 1/4NPT								
2	1	54938	ASSY, FILTER, REGULATOR 0-125, DIVERTER, L TO R								
1	1	54911	PLATE, VALVE MOUNTING SUPPORT								
<table border="1"> <thead> <tr> <th>ITEM</th><th>QTY</th><th>PART NUMBER</th><th>DESCRIPTION</th></tr> </thead> <tbody> <tr> <td colspan="4"> NOTE: SPECIFICATION PRELIMINARY & UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (IN) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS (MM) ITEM 1: SEE DIM ITEM 2: SEE DIM ITEM 3: SEE DIM ITEM 4: SEE DIM ITEM 5: SEE DIM ITEM 6: SEE DIM ITEM 7: SEE DIM ITEM 8: SEE DIM ITEM 9: SEE DIM ITEM 10: SEE DIM ITEM 11: SEE DIM ITEM 12: SEE DIM ITEM 13: SEE DIM ITEM 14: SEE DIM ITEM 15: SEE DIM ITEM 16: SEE DIM ITEM 17: SEE DIM ITEM 18: SEE DIM ITEM 19: SEE DIM ITEM 20: SEE DIM ITEM 21: SEE DIM ITEM 22: SEE DIM ITEM 23: SEE DIM ITEM 24: SEE DIM ITEM 25: SEE DIM ITEM 26: SEE DIM ITEM 27: SEE DIM ITEM 28: SEE DIM ITEM 29: SEE DIM ITEM 30: SEE DIM ITEM 31: SEE DIM ITEM 32: SEE DIM ITEM 33: SEE DIM ITEM 34: SEE DIM ITEM 35: SEE DIM ITEM 36: SEE DIM ITEM 37: SEE DIM ITEM 38: SEE DIM ITEM 39: SEE DIM ITEM 40: SEE DIM ITEM 41: SEE DIM ITEM 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NOTE: SPECIFICATION PRELIMINARY & UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES (IN) UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS (MM) ITEM 1: SEE DIM ITEM 2: SEE DIM ITEM 3: SEE DIM ITEM 4: SEE DIM ITEM 5: SEE DIM ITEM 6: SEE DIM ITEM 7: SEE DIM ITEM 8: SEE DIM ITEM 9: SEE DIM ITEM 10: SEE DIM ITEM 11: SEE DIM ITEM 12: SEE DIM ITEM 13: SEE DIM ITEM 14: SEE DIM ITEM 15: SEE DIM ITEM 16: SEE DIM ITEM 17: SEE DIM ITEM 18: SEE DIM ITEM 19: SEE DIM ITEM 20: SEE DIM ITEM 21: SEE DIM ITEM 22: SEE DIM ITEM 23: SEE DIM ITEM 24: SEE DIM ITEM 25: SEE DIM ITEM 26: SEE DIM ITEM 27: SEE DIM ITEM 28: SEE DIM ITEM 29: SEE DIM ITEM 30: SEE DIM ITEM 31: SEE DIM ITEM 32: SEE DIM ITEM 33: SEE DIM ITEM 34: SEE DIM ITEM 35: SEE DIM ITEM 36: SEE DIM ITEM 37: SEE DIM ITEM 38: SEE DIM ITEM 39: SEE DIM ITEM 40: SEE DIM ITEM 41: SEE DIM ITEM 42: SEE DIM ITEM 43: SEE DIM ITEM 44: SEE DIM ITEM 45: SEE DIM ITEM 46: SEE DIM ITEM 47: SEE DIM ITEM 48: SEE DIM ITEM 49: SEE DIM ITEM 50: SEE DIM ITEM 51: SEE DIM ITEM 52: SEE DIM ITEM 53: SEE DIM ITEM 54: SEE DIM ITEM 55: SEE DIM ITEM 56: SEE DIM ITEM 57: SEE DIM ITEM 58: SEE DIM ITEM 59: SEE DIM ITEM 60: SEE DIM ITEM 61: SEE DIM ITEM 62: SEE DIM ITEM 63: SEE DIM ITEM 64: SEE DIM ITEM 65: SEE DIM ITEM 66: SEE DIM ITEM 67: SEE DIM ITEM 68: SEE DIM ITEM 69: SEE DIM ITEM 70: SEE DIM ITEM 71: SEE DIM ITEM 72: SEE DIM ITEM 73: SEE DIM ITEM 74: SEE DIM ITEM 75: SEE DIM ITEM 76: SEE DIM ITEM 77: SEE DIM ITEM 78: SEE DIM ITEM 79: SEE DIM ITEM 80: SEE DIM ITEM 81: SEE DIM ITEM 82: SEE DIM ITEM 83: SEE DIM ITEM 84: SEE DIM ITEM 85: SEE DIM ITEM 86: SEE DIM ITEM 87: SEE DIM ITEM 88: SEE DIM ITEM 89: SEE DIM ITEM 90: SEE DIM ITEM 91: SEE DIM ITEM 92: SEE DIM ITEM 93: SEE DIM ITEM 94: SEE DIM ITEM 95: SEE DIM ITEM 96: SEE DIM ITEM 97: SEE DIM ITEM 98: SEE DIM ITEM 99: SEE DIM ITEM 100: SEE DIM ITEM 101: SEE DIM ITEM 102: SEE DIM ITEM 103: SEE DIM ITEM 104: SEE DIM ITEM 105: SEE DIM ITEM 106: SEE DIM ITEM 107: SEE DIM ITEM 108: SEE DIM ITEM 109: SEE DIM ITEM 110: SEE DIM ITEM 111: SEE DIM ITEM 112: SEE DIM ITEM 113: SEE DIM ITEM 114: SEE DIM ITEM 115: SEE DIM ITEM 116: SEE DIM ITEM 117: SEE DIM ITEM 118: SEE DIM ITEM 119: SEE DIM ITEM 120: SEE DIM ITEM 121: SEE DIM ITEM 122: SEE DIM ITEM 123: SEE DIM ITEM 124: SEE DIM ITEM 125: SEE DIM ITEM 126: SEE DIM ITEM 127: SEE DIM ITEM 128: SEE DIM ITEM 129: SEE DIM ITEM 130: SEE DIM ITEM 131: SEE DIM ITEM 132: SEE DIM ITEM 133: SEE DIM ITEM 134: SEE DIM ITEM 135: SEE DIM ITEM 136: SEE DIM ITEM 137: SEE DIM ITEM 138: SEE DIM ITEM 139: SEE DIM ITEM 140: SEE DIM ITEM 141: SEE DIM ITEM 142: SEE DIM ITEM 143: SEE DIM ITEM 144: SEE DIM ITEM 145: SEE DIM ITEM 146: SEE DIM ITEM 147: SEE DIM ITEM 148: SEE DIM ITEM 149: SEE DIM ITEM 150: SEE DIM ITEM 151: SEE DIM ITEM 152: SEE DIM ITEM 153: SEE DIM ITEM 154: SEE DIM ITEM 155: SEE DIM ITEM 156: SEE DIM ITEM 157: SEE DIM ITEM 158: SEE DIM ITEM 159: SEE DIM ITEM 160: SEE DIM ITEM 161: SEE DIM ITEM 162: SEE DIM ITEM 163: SEE DIM ITEM 164: SEE DIM ITEM 165: SEE DIM ITEM 166: SEE DIM ITEM 167: SEE DIM ITEM 168: SEE DIM ITEM 169: SEE DIM ITEM 170: SEE DIM ITEM 171: SEE DIM ITEM 172: SEE DIM ITEM 173: SEE DIM ITEM 174: SEE DIM ITEM 175: SEE DIM ITEM 176: SEE DIM ITEM 177: SEE DIM ITEM 178: SEE DIM ITEM 179: SEE DIM ITEM 180: SEE DIM ITEM 181: SEE DIM ITEM 182: SEE DIM ITEM 183: SEE DIM ITEM 184: SEE DIM ITEM 185: SEE DIM ITEM 186: SEE DIM ITEM 187: SEE DIM ITEM 188: SEE DIM ITEM 189: SEE DIM ITEM 190: SEE DIM ITEM 191: SEE DIM ITEM 192: SEE DIM ITEM 193: SEE DIM ITEM 194: SEE DIM ITEM 195: SEE DIM ITEM 196: SEE DIM ITEM 197: SEE DIM ITEM 198: SEE DIM ITEM 199: SEE DIM ITEM 200: SEE DIM ITEM 201: SEE DIM ITEM 202: SEE DIM ITEM 203: SEE DIM ITEM 204: SEE DIM ITEM 205: SEE DIM ITEM 206: SEE DIM ITEM 207: SEE DIM ITEM 208: SEE DIM ITEM 209: SEE DIM ITEM 210: SEE DIM ITEM 211: SEE DIM ITEM 212: SEE DIM ITEM 213: SEE DIM ITEM 214: SEE DIM ITEM 215: SEE DIM ITEM 216: SEE DIM ITEM 217: SEE DIM ITEM 218: SEE DIM ITEM 219: SEE DIM ITEM 220: SEE DIM ITEM 221: SEE DIM ITEM 222: SEE DIM ITEM 223: SEE DIM ITEM 224: SEE DIM ITEM 225: SEE DIM ITEM 226: SEE DIM ITEM 227: SEE DIM ITEM 228: SEE DIM ITEM 229: SEE DIM ITEM 230: SEE DIM ITEM 231: SEE DIM ITEM 232: SEE DIM ITEM 233: SEE DIM ITEM 234: SEE DIM ITEM 235: SEE DIM ITEM 236: SEE DIM ITEM 237: SEE DIM ITEM 238: SEE DIM ITEM 239: SEE DIM ITEM 240: SEE DIM ITEM 241: SEE DIM ITEM 242: SEE DIM ITEM 243: SEE DIM ITEM 244: SEE DIM ITEM 245: SEE DIM ITEM 246: SEE DIM ITEM 247: SEE DIM ITEM 248: SEE DIM ITEM 249: SEE DIM ITEM 250: SEE DIM ITEM 251: SEE DIM ITEM 252: SEE DIM ITEM 253: SEE DIM ITEM 254: SEE DIM											

6.10. ASSY, FILTER, REGULATOR 0-125, DIVERter, L TO R

REV.	ECO#	DESCRIPTION	INITIALS	DATE
2	6241	ROTATED 54912 TO MATCH VENDOR ASSEMBLY	DD	7/24/2018
3	6637	ADDED 10718, 67706, 901288, 901311, P4945, P4966, P4987	DD	11/20/2018

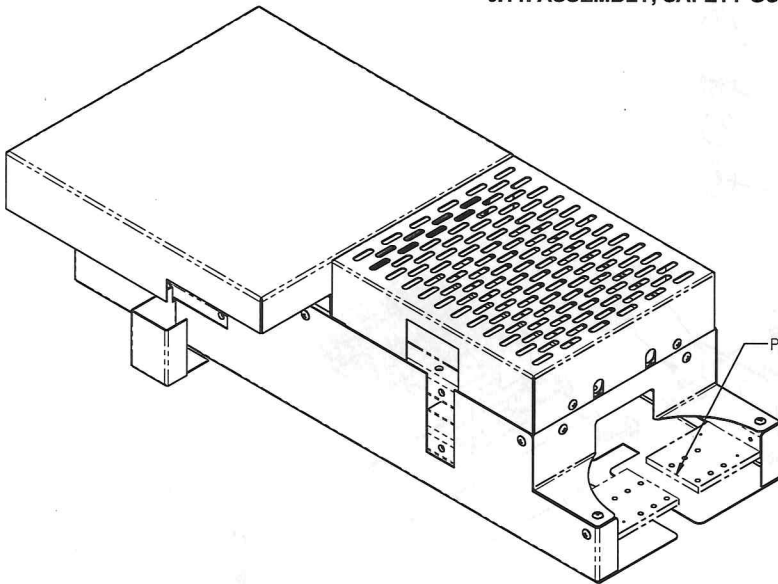


PART 69185 ELEMENT FILTER

Figure 6-10: ASSY, FILTER, REGULATOR

ITEM	QTY	PART NUMBER	DESCRIPTION
9	2	P4987	FITTING, STREET ELBOW 1/4 NPT
8	1	P4966	FITTING, MALE CONN 1/4 NPT X 3/8 T
7	1	P4945	FITTING, MALE COUPLER, 1/4 NPT
6	2	901311	PLUG, 1/4" NPT HEX SOCKET
5	1	901288	NIPPLE, PIPE, BRASS, 1/4 X CLOSE
2	1	69321	ASSY, FILTER, REGULATOR 0-125, DIVERter
3	1	67706	SENSOR, AIR FLOW, CHEM-TEC 375
2	1	54912	DIVERter BLOCK (PARKER #DK3510-3-2)
1	1	10718	FITTING, SOCKET COUPLING 1/4 NPT
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PUP) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE FINISH: ALL SURFACES TO BE SHARP EDGES TOLERANCE: ±.005 INCH TREATMENT: ALUMINUM PARTS WITH NUMBER AT LOCATION CHARGE SPECIALTREATMENT REQUIRED FOR ALUMINUM CONSTRUCTION METHOD DATE SEE DCM MATERIAL UNIT: INCH DECIMAL: .005 INCHES: 30 MINUTES PRIMARY UNITS: INCH UNLESS OTHERWISE SPECIFIED 1/2" 30304 30304 1/2" 30304 30304 DATE: 12/12/2017 BY: DD REV: 3			
			HAMER FISCHBEIN THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF HAMER FISCHBEIN. IT IS TO BE USED FOR THE PURPOSES OF THE PROJECT AND NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.
			ASSY, FILTER, REGULATOR 0-125, DIVERter, L TO R 54938

6.11. ASSEMBLY, SAFETY GUARDS, L TO R



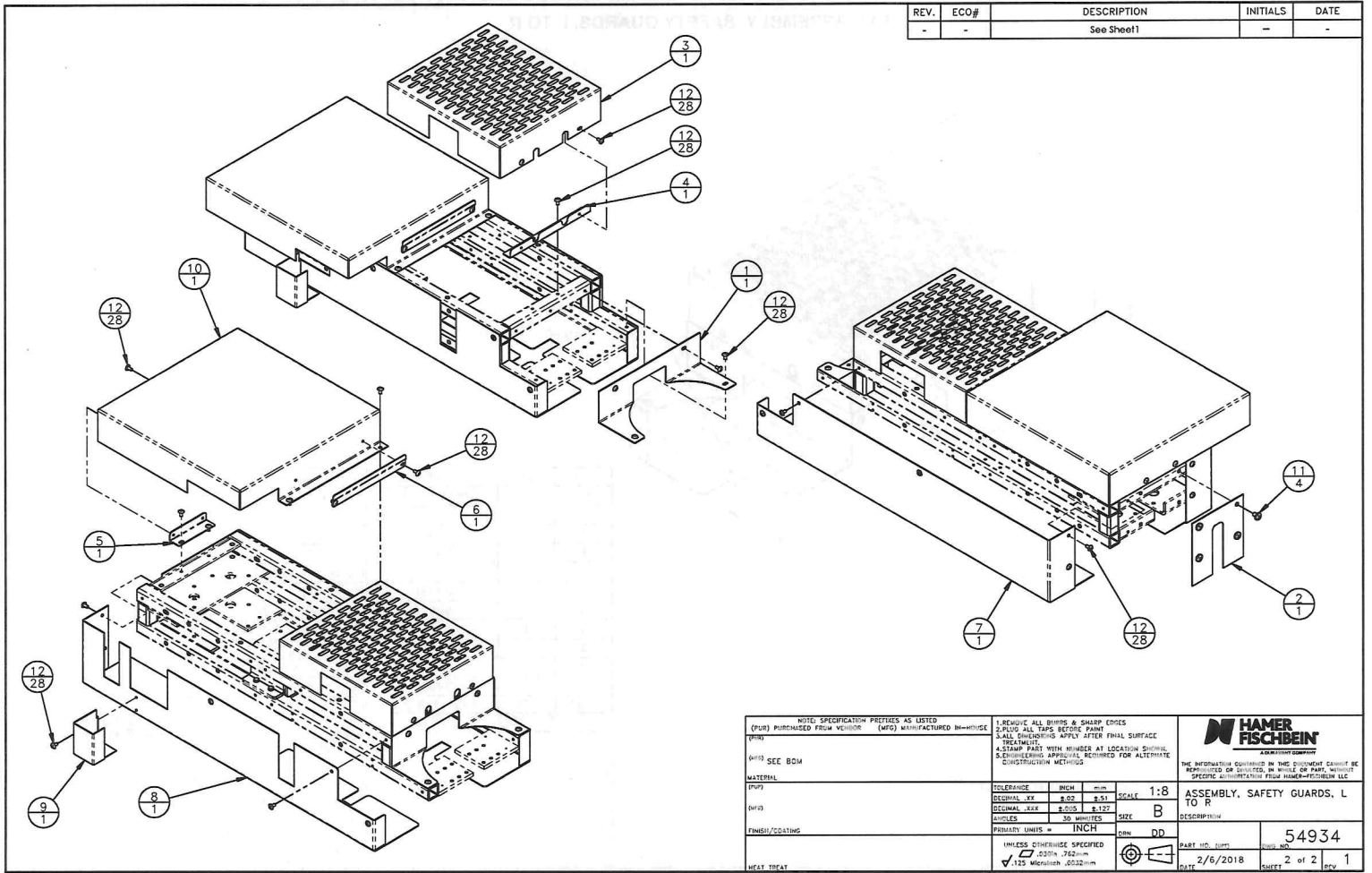
AS ASSEMBLED

Figure 6-11: Safety Guards L TO R

REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	173528	NEW PART RELEASE		02/16/2018

12	28	T14205	SCREW, 1/4-20X1/2,PH TRUSS HD SS
11	4	PH381612SS	PAN HD PHILIPS, 3/8-16 X 1/2. SS
10	1	54936	PLATE, PULLEY GUARD
9	1	54935	PLATE, GEARBOX SHAFT GUARD, L TO R
8	1	54932	PLATE, REAR SIDE GUARD, LH FEED
7	1	54931	PLATE, FRONT SIDE GUARD, LH FEED
6	1	54930	PLATE, RETAINING BRKT, PERFORATED CVR GUARD
5	1	54929	PLATE, RETAINING BRACKET, PULLEY COVER GUARD
4	1	54928	PLATE, WIRE RETAINING BRACKET
3	1	54926	PLATE, PERFORATED COVER GUARD
2	1	54924	PLATE, REMOVABLE GUARD, INKLESS CODER
1	1	54923	PLATE, INFEEED FRONT GUARD

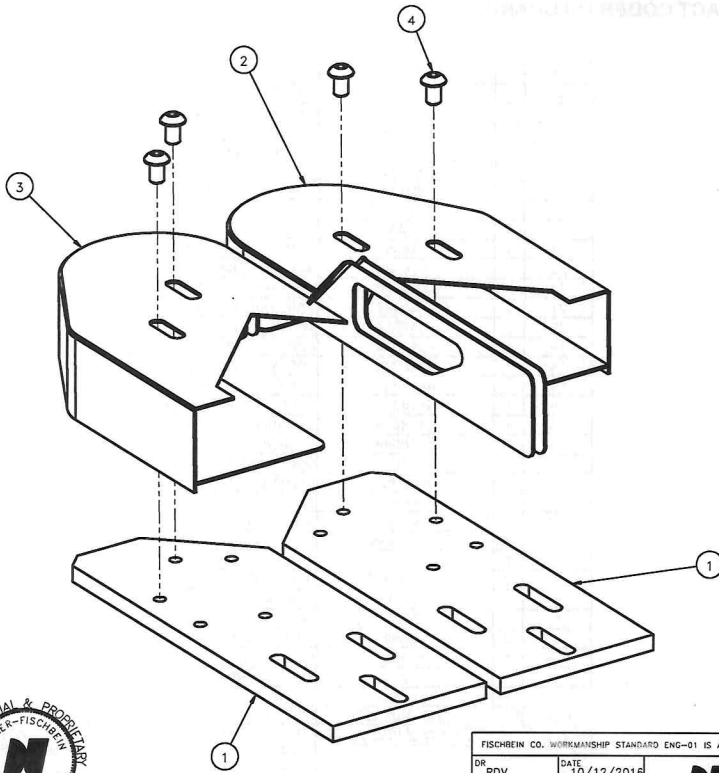
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED BY-HAMER (PUB) SEE BOM WATERMARK SCALE 1:5 SIZE B FINISH/COATING DD UNLESS OTHERWISE SPECIFIED ✓ 0.0010 .762mm ✓ .125 MAXIMUM .00125mm DATE 2/6/2018 SHEET 1 of 2 REV 1			
			1. REMOVE ALL BURRS & SHARP EDGES 2. POLISH ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS HAMER FISCHEIN AN IRVING COMPANY THE INFORMATION CONTAINED IN THIS DRAWING SHALL BE REPRODUCED OR DERIVED, IN WHOLE OR PART, WITHOUT SPECIFIC AUTHORIZATION FROM HAMER-FISCHEIN, INC. ASSEMBLY, SAFETY GUARDS, L TO R DESCRIPTION 54934



REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-

NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE				 THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT SPECIFIC PERMISSION FROM HAMER-FISCHBEIN LLC			
1. REMOVE ALL BIRMS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL SURFACES APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHOD				ASSEMBLY, SAFETY GUARDS, L TO P DESCRIPTION			
QWTS SEE BOM				TOLERANCE INCH MM		SCALE 1:8	
MATERIAL				DECIMAL .XX 0.02 0.51		UNIT B	
FINISH/COATING				DECIMAL .XXX 0.005 0.127		UNIT B	
WELD TREAT				ANGLES 30 MINUTES 5 MINUTES		UNIT B	
				PRIMARY UNITS INCH MM		UNIT DD	
				UNLESS OTHERWISE SPECIFIED		PART NO. (LPM) 54934	
				✓ 0.0314 762mm		DATE 2/6/2018	
				✓ 0.125 Min/Inch 0.032mm		SHEET 2 of 2	
						REV 1	

6.12. ASSEMBLY, BELT GAURDS



ITEM	QTY.	PART NUMBER	DWG#	DESCRIPTION
4	4	SB5161812SS	SB5161812SS	SCREW, SOC BTTN 5/16-18 X 1/2 SS
3	1	HA12491	HA12491	GUARD, RIGHT INFEED
2	1	HA12490	HA12490	GUARD, LEFT INFEED
1	2	HA11838	HA11838	FEED PLATE



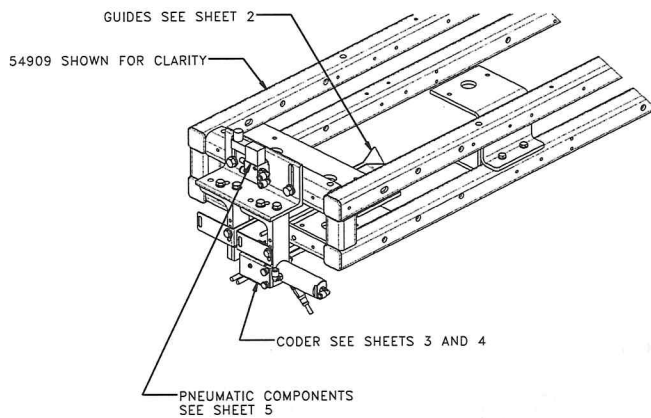
Figure 6-12: Assembly Belt Guards

FISCHBEIN CO. WORKMANSHIP STANDARD ENG-01 IS AN INTEGRAL COMPONENT OF THIS DRAWING	
DR RDV	DATE 10/12/2016
CK	DATE
BREAK ALL SHARP EDGES REMOVE ALL BURRS	
ALL TOLERANCES N7N-ACCUMULATIVE	
 HAMER-FISCHBEIN A DURAVANT COMPANY 151 WALKER ROAD STATESVILLE, NC 28625 PHONE: (704) 871-1159 FAX: (704) 872-3203	

MATERIAL	NAME
SB5161812SS	ASSY, BELT GUARDS
FINISH	PART NUMBER
	HA11809
DIMENSIONAL TOLERANCES	SCALE
DECIMAL .XXX ±.005 DECIMAL .XX ±.02 FRACTIONAL ±.010 ANGLES ± 30 MIN (UNLESS OTHERWISE SPECIFIED)	1:2
SHEET	DRAWING NUMBER
1 of 1	HA11809
REV	A

7.1. INKLESS IMPACT CODER (10 CHARC)

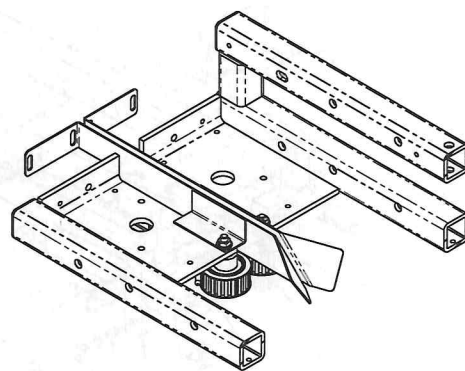
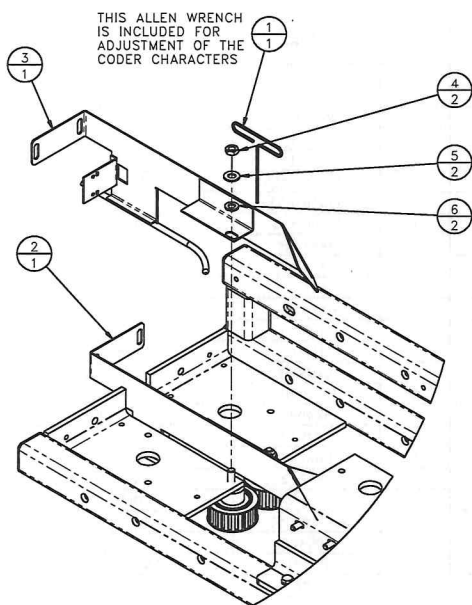
REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	173528	NEW PART RELEASE		12/7/2017
2	6477	ADDED P4965 (SEE SHEET 5)	DD	9/19/2018



33	2	WL516SS	WASHER, LOCK, 5/16 SS
32	2	WL38SS	WASHER, LOCK 3/8 SS
31	2	WL10SS	WASHER, LOCK #10 SS
30	2	WFM3SS	WASHER, FLAT M3 SS
29	4	WF516SS	WASHER, FLAT, 5/16 SS
28	4	WF14SS	WASHER, FLAT 1/4 SS
27	2	SCM316	SCREW, SOC CAP M3 X 10MM
26	2	SC632112SS	SCREW, SOC CAP #6-32 X 1 1/2 SS
25	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
24	1	P4965	FITTING, MALE CONN 1/4 NPT X 1/4 T
23	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
22	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
21	1	HA41446	TYPE HOLDER 10 CHARACTER
20	2	HA40559	10-24 X 5 THUMB SCREW
19	1	HA18244	CODER GUIDE, LEFT
18	1	HA18243	CODER GUIDE, RIGHT
17	1	HA18242	PLATE, CODER GUIDE
16	1	HA18240	CODER GUARD WELDMENT
15	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
14	1	HA18068	RUBBER BACKUP ASSEMBLY
13	1	HA18067	CODER MOUNT, 500 EMBOSSING
12	1	HA4085	CYLINDER ADAPTER (CODER)
11	1	HA4042	NO. KIT
10	1	HA3242	AIR CYLINDER
9	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
8	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
7	2	H142012SS	BOLT, HEX HD 1/4-20 X 1/2 SS
6	1	700495	CORDSET, M12 SOCKET, 2M
5	1	69295	SENSOR, PHOTO, DIFF, 10-30VDC, M12
4	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
3	1	67463	RELAY, LOGIC, 8-1, 4-0, 24VDC
2	1	54915	KIT, SOLENOID VALVE 24VDC
1	1	10242	ALLEN WRENCH, 332
ITEM	QTY	PART NUMBER	DESCRIPTION

[illegible]

Figure 7-1: INKLESS IMPACT CODER

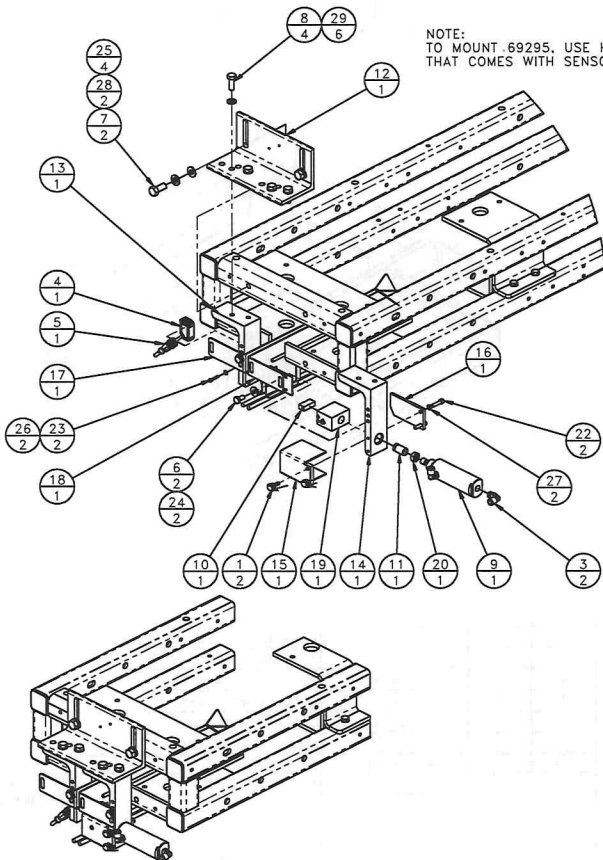


AS ASSEMBLED VIEW

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

ITEM	QTY	PART NUMBER	DESCRIPTION
6	2	WL516SS	WASHER, LOCK, 5/16 SS
5	2	WF516SS	WASHER, FLAT, 5/16 SS
4	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
3	1	HA18244	CODER GUIDE, LEFT
2	1	HA18243	CODER GUIDE, RIGHT
1	1	10242	ALLEN WRENCH, 332

NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE (PMP) PMP-2 SEE BOM MATERIAL (PMP) PMP-2 (PMP) PMP-2 FINISH/COATING HEAT TREAT	1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS HAMER FISCHEIN JOURNAL CODES THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR DISCLOSED, IN WHOLE OR PART, WITHOUT SPECIFIC AUTHORIZATION FROM HAMER-FISCHEIN, INC. INCKLESS IMPACT CODER (10 CHARS) SCALE 1:4 SIZE B FIN DD UNLESS OTHERWISE SPECIFIED 2010 1/16" MIN 125 Microinch .0012 MIN PART NO. (PMP) 54910 DATE 12/6/2017 SHEET 2 of 5 REV. 2
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NOTE:
TO MOUNT 69295, USE HARDWARE
THAT COMES WITH SENSOR

AS ASSEMBLED

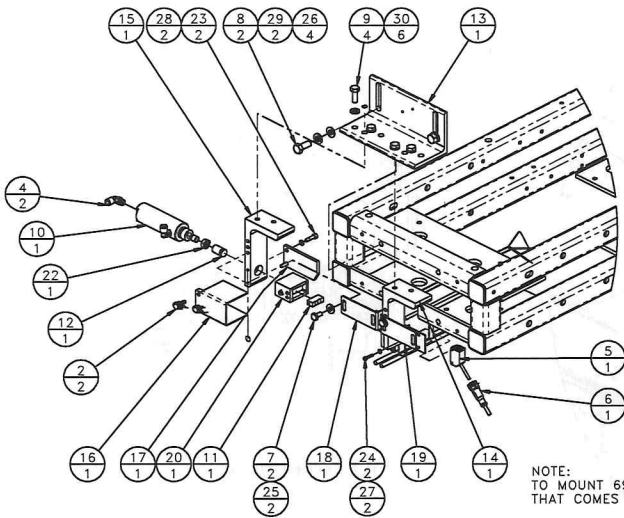
REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

NOTE:
ORIENTATION SHOWN IS FOR A RIGHT TO LEFT FEED WITH
CODING ON FRONT OF MACHINE OR LEFT TO
RIGHT FEED WITH CODING ON BACK OF MACHINE.

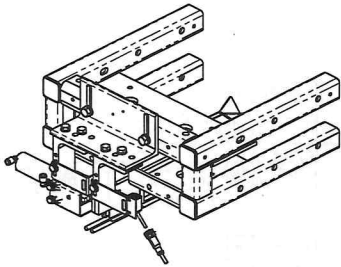
29	6	WL516SS	WASHER, LOCK, 5/16 SS
28	2	WL38SS	WASHER, LOCK 3/8 SS
27	2	WL10SS	WASHER, LOCK #10 SS
26	2	WFM3SS	WASHER, FLAT M3 SS
25	4	WF516SS	WASHER, FLAT, 5/16 SS
24	2	WF14SS	WASHER, FLAT 1/4 SS
23	2	SCM316	SCREW, SOC CAP M3 X 10MM
22	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
21	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
20	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
19	1	HA41446	TYPE HOLDER 10 CHARACTER
18	1	HA18244	CODER GUIDE, LEFT
17	1	HA18243	CODER GUIDE, RIGHT
16	1	HA18242	PLATE, CODER GUIDE
15	1	HA18240	CODER GUARD WELDMENT
14	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
13	1	HA18068	RUBBER BACKUP ASSEMBLY
12	1	HA18067	CODER MOUNT, 500 EMBOSING
11	1	HA4085	CYLINDER ADAPTER (CODER)
10	1	HA4042	NO. KIT
9	1	HA3242	AIR CYLINDER
8	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
7	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
6	2	H142012SS	BOLT, HEX HD 1/4-20 X 1/2 SS
5	1	700495	CORDSET, M12 SOCKET, 2M
4	1	69295	SENSOR, PHOTO, DIFF. 10-30VDC, M12
3	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
2	1	67463	RELAY, LOGIC, 8-1, 4-0, 24VDC
1	2	40559	#10-24 THUMB SCREW .5" LG

ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PRETIES AS LISTED (PUP) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE 1. REMOVE ALL BURRS & SHARP EDGES 2. POLISH ALL TAPS BEFORE PAINT 3. ALL SURFACES APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			
MATERIAL		TEMPERATURE: INCH DECIMAL: .001 ANGLE: 90 DEGREES FINISH: UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED 12.0 MINIMUM .002 INCH	SCALE: 1:6 SIZE: B DD PART NO. 54910 DATE: 12/6/2017 SHEET: 3 of 5 REV: 2

NOTE:
ORIENTATION SHOWN IS FOR A RIGHT TO LEFT FEED WITH
CODING ON FRONT OF MACHINE OR RIGHT TO LEFT FEED
WITH CODING ON BACK OF MACHINE



NOTE:
TO MOUNT 69295, USE HARDWARE
THAT COMES WITH SENSOR



AS ASSEMBLED

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

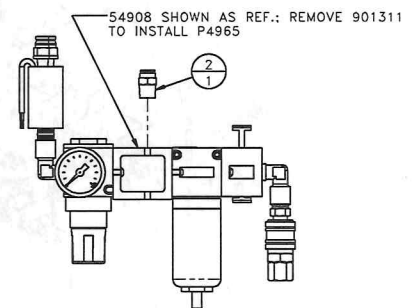
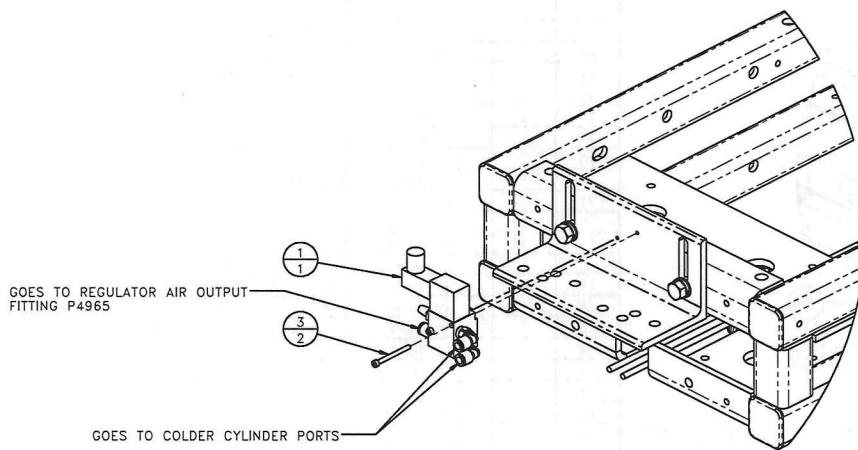
30	6	WL516SS	WASHER, LOCK, 5/16 SS
29	2	WL38SS	WASHER, LOCK 3/8 SS
28	2	WL10SS	WASHER, LOCK #10 SS
27	2	WFM3SS	WASHER, FLAT M3 SS
26	4	WF516SS	WASHER, FLAT, 5/16 SS
25	2	WF14SS	WASHER, FLAT 1/4 SS
24	2	SCM316	SCREW, SOC CAP M3 X 10MM
23	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
22	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
21	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
20	1	HA41446	TYPE HOLDER 10 CHARACTER
19	1	HA18244	CODER GUIDE, LEFT
18	1	HA18243	CODER GUIDE, RIGHT
17	1	HA18242	PLATE, CODER GUIDE
16	1	HA18240	CODER GUARD WELDMENT
15	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
14	1	HA18068	RUBBER BACKUP ASSEMBLY
13	1	HA18067	CODER MOUNT, 500 EMBOSING
12	1	HA4085	CYLINDER ADAPTER (CODER)
11	1	HA4042	NO. KIT
10	1	HA3242	AIR CYLINDER
9	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
8	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
7	2	H142012SS	BOLT, HEX HD 1/4-20 X 1/2 SS
6	1	700495	CORDSET, M12 SOCKET, 2M
5	1	69295	SENSOR, PHOTO, DIFF. 10-30VDC, M12
4	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
3	1	67463	RELAY, LOGIC, 8-1, 4-0, 24VDC
2	2	40559	#10-24 THUMB SCREW .5" LG
1	1	10242	ALLEN WRENCH, 332

ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFERS AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE (MFG) SEE BOM MATERIAL FINISH/COATING HEAT TREAT			
		1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. COLOR PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS TOLERANCE DECIMAL INCH FRACTIONAL INCH ANGLES PRIMARY UNITS UNLESS OTHERWISE SPECIFIED 125 MICRONS .0022mm	
		SCALE 1:6 SIZE B DESCRIPTION INCKLESS IMPACT CODER (10 CHARS) PART NO. (DPT) 54910 DATE 12/6/2017 4 of 5 REV 2	



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REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS
ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING,
OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT
PERMISSION IN WRITING FROM HAMER FISCHBEIN, INC.

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

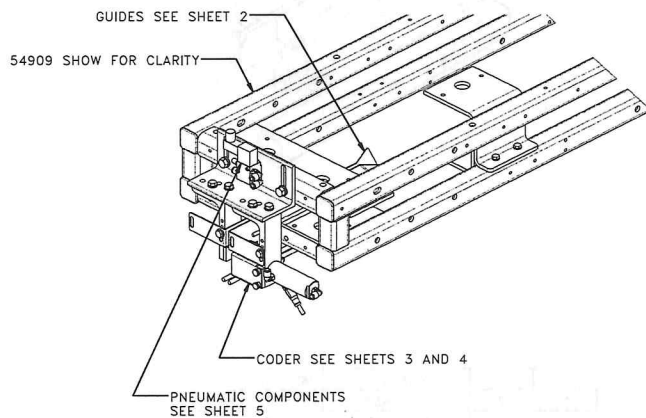


FOR CODER OPTION ONLY

3	2	SC632112SS	SCREW, SOC CAP #6-32 X 1 1/2 SS
2	1	P4965	FITTING, MALE CONN 1/4 NPT X 1/4 T
1	1	54915	KIT, SOLENOID VALVE 24VDC
ITEM	QTY	PART NUMBER	DESCRIPTION
(INFO) NOTE: SPECIFICATION PREFIXES AS LISTED (INFO) PURCHASED FROM VENDOR (INFO) MANUFACTURED IN-HOUSE			
(INFO)	1. REMOVE ALL RIBS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. PLANT QUENCHING APPLY AFTER FULL SURFACE TREATMENT 4. ASSEMBLY PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE SUBSTITUTION. NECESSARY		
INFO SEE BOM MATERIAL			
(INFO)	TOLERANCE INCH - 1:3 DECIMAL - 0.005 0.010 DECIMAL - 0.005 0.010 ANGLES 10 MINUTES		
FINISH/COATING		INCH	SIZE DD
UNLESS OTHERWISE SPECIFIED 1. 100% 100% 2. 125 Maximum 0.02mm			PART NO. SUPP DATE 12/6/2017 QTY 5 of 5 REV 2
HEAT TREAT		INKLESS IMPACT CODER (10 CHARC) DESCRIPTION 54910	

7.2. INKLESS IMPACT CODER (8 CHARC)

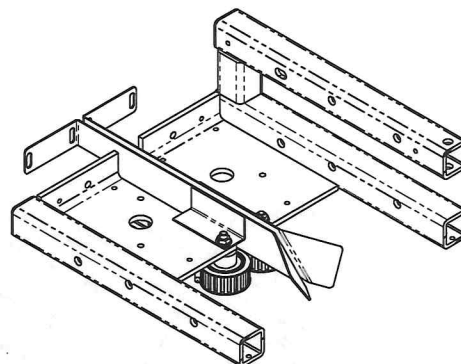
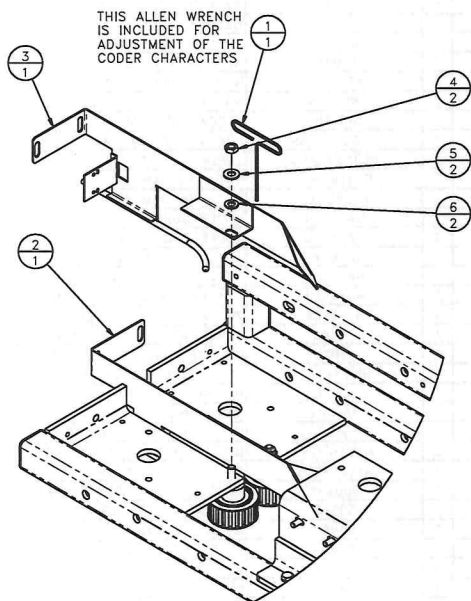
REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	173528	NEW PART RELEASE		12/7/2017
2	6477	ADDED P4745 (SEE SHEET 5)	DD	9/25/2018



32	6	WL516SS	WASHER, LOCK, 5/16 SS
31	2	WL38SS	WASHER, LOCK 3/8 SS
30	2	WL10SS	WASHER, LOCK #10 SS
29	2	WFM3SS	WASHER, FLAT M3 SS
28	4	WF516SS	WASHER, FLAT, 5/16 SS
27	2	WF14SS	WASHER, FLAT 1/4 SS
26	2	SCM316	SCREW, SOC CAP M3 X 10MM
25	2	SC632112SS	SCREW, SOC CAP #6-32 X 1 1/2 SS
24	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
23	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
22	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
21	1	HA18244	CODER GUIDE, LEFT
20	1	HA18243	CODER GUIDE, RIGHT
19	1	HA18242	PLATE, CODER GUIDE
18	1	HA18240	CODER GUARD WELDMENT
17	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
16	1	HA18068	RUBBER BACKUP ASSEMBLY
15	1	HA18067	CODER MOUNT, 500 EMBOSING
14	1	HA4085	CYLINDER ADAPTER (CODER)
13	1	HA4047-1	ASSY, TYPE HOLDER, 8 CHARACTER
12	1	HA4042	NO. KIT
11	1	HA3242	AIR CYLINDER
10	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
9	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
8	2	H142012SS	BOLT, HEX HD 1/4-20 X 1/2 SS
7	1	700495	CORDSET, M12 SOCKET, 2M
6	1	69295	SENSOR, PHOTO, DIFF. 10-30VDC, M12
5	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
4	1	67463	RELAY, LOGIC, 8-1, 4-0, 24VDC
3	2	40559	#10-24 THUMB SCREW .5" LG
2	1	54915	KIT, SOLENOID VALVE 24VDC
1	1	10242	ALLEN WRENCH, 332

ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE 1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. ASSEMBLY PART WITH NUMBER AT LOCATION SHOWN 5. DIMENSIONS APPLICABLE FOR ALTERNATE CONSTRUCTION METHODS UNLESS OTHERWISE SPECIFIED 631.3 μm (25.0 μin) 125 μm (5.0 μin)			
MATERIAL		FINISH	SCALE 1:6
FINISH/COATING		SIZE B	DESCRIPTION
HEAT TREAT		CON DD	INCH DD
		PART NO. (SUPP)	54916
		DATE 12/28/2017	SHEET 1 of 5
		REV 2	

Figure 7-2: INKLESS IMPACT CODER

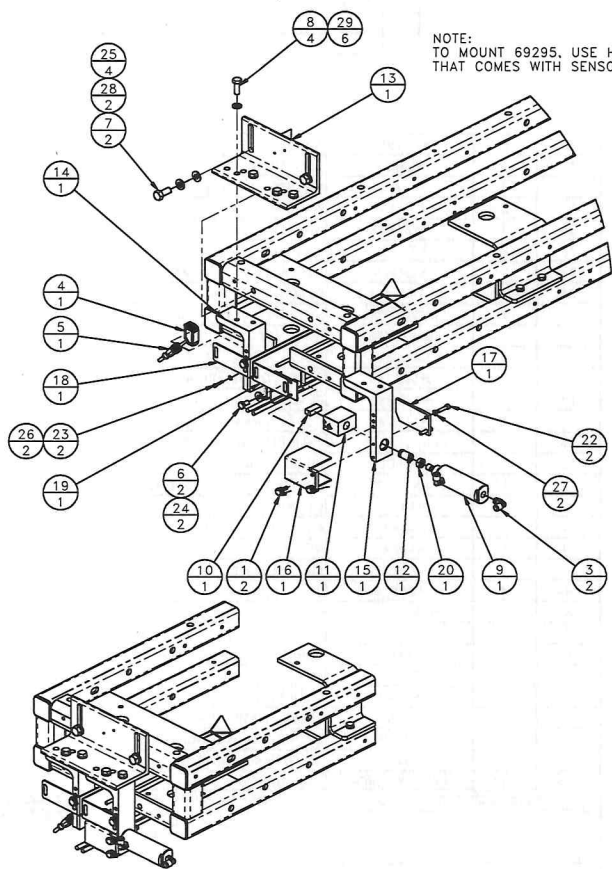


AS ASSEMBLED VIEW

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

ITEM	QTY	PART NUMBER	DESCRIPTION
6	2	WL516SS	WASHER, LOCK, 5/16 SS
5	2	WF516SS	WASHER, FLAT, 5/16 SS
4	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
3	1	HA18244	CODER GUIDE, LEFT
2	1	HA18243	CODER GUIDE, RIGHT
1	1	10242	ALLEN WRENCH, 332

NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE INFO SEE BOM MATERIAL FINISH/COATING HEAT TREAT		1. REMOVE ALL BURRS & SHARP EDGES 2. POLISH ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINISH SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS	HAMER FISCHBEIN THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT SPECIFIC AUTHORIZATION FROM HAMERFISCHBEIN, LLC INKLESS IMPACT CODER (8 CHAR) SCALE 1:4 SIZE B FORM DD PART NO. 54916 DATE 12/28/2017 SHEET 2 of 5 REV 2
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NOTE:
TO MOUNT 69295, USE HARDWARE
THAT COMES WITH SENSOR

AS ASSEMBLED

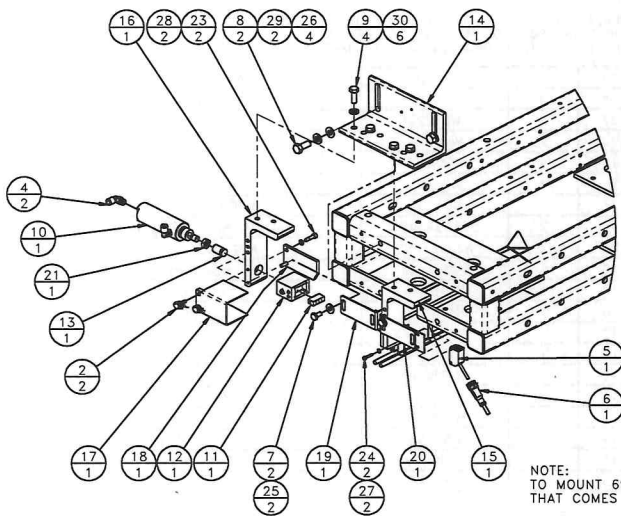
REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

NOTE:
ORIENTATION SHOWN IS FOR A RIGHT TO LEFT FEED WITH
CODING ON FRONT OF MACHINE OR LEFT TO
RIGHT FEED WITH CODING ON BACK OF MACHINE.

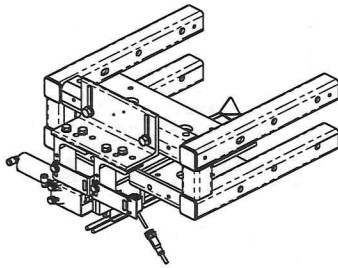
29	6	WL516SS	WASHER, LOCK, 5/16 SS
28	2	WL38SS	WASHER, LOCK 3/8 SS
27	2	WL10SS	WASHER, LOCK #10 SS
26	2	WFM3SS	WASHER, FLAT M3 SS
25	4	WF516SS	WASHER, FLAT, 5/16 SS
24	2	WF14SS	WASHER, FLAT 1/4 SS
23	2	SCM316	SCREW, SOC CAP M3 X 10MM
22	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
21	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
20	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
19	1	HA18244	CODER GUIDE, LEFT
18	1	HA18243	CODER GUIDE, RIGHT
17	1	HA18242	PLATE, CODER GUIDE
16	1	HA18240	CODER GUARD WELDMENT
15	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
14	1	HA18068	RUBBER BACKUP ASSEMBLY
13	1	HA18067	CODER MOUNT, 500 EMB CODING
12	1	HA4085	CYLINDER ADAPTER (CODER)
11	1	HA4047-1	ASSY, TYPE HOLDER, 8 CHARACTER
10	1	HA4042	NO. KIT
9	1	HA3242	AIR CYLINDER
8	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
7	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
6	2	H142012SS	BOLT, HEX HD 1/4-20 X 1 1/2 SS
5	1	700495	CORDSET, M12 SOCKET, 2M
4	1	69295	SENSOR, PHOTO, DIFF. 10-30VDC, M12
3	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
2	1	67463	RELAY, LOGIC, 8-1, 4-0, 24VDC
1	2	40559	#10-24 THUMB SCREW .5" LG
ITEM	QTY	PART NUMBER	DESCRIPTION

NOTE: SPECIFICATION PRETIES AS LISTED (PUP) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE		1. REMOVE ALL BURRS & SHARP EDGES 2. FILL ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. CONSULTING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS		HAMER FISCHBEIN KERN-TECHNOLOGIE	
INFO SEE BOM		COVERAGE	INCH	SCALE	1:6
MATERIAL		COATING	XX	SIZE	B
FINISH/COATING		COATING	XX	SIZE	B
HEAT TREAT		COATING	XX	SIZE	B
UNLESS OTHERWISE SPECIFIED ✓ 125 MICROIN. .0012 IN.		INCH		DD	
PART NO. 54916		DATE 12/28/2017		REV 2	
SHEET 3 of 5		SHEET 3 of 5		SHEET 3 of 5	

NOTE:
ORIENTATION SHOWN IS FOR A RIGHT TO LEFT FEED WITH
CODING ON FRONT OF MACHINE OR RIGHT TO LEFT FEED
WITH CODING ON BACK OF MACHINE



NOTE:
TO MOUNT 69295, USE HARDWARE
THAT COMES WITH SENSOR



AS ASSEMBLED

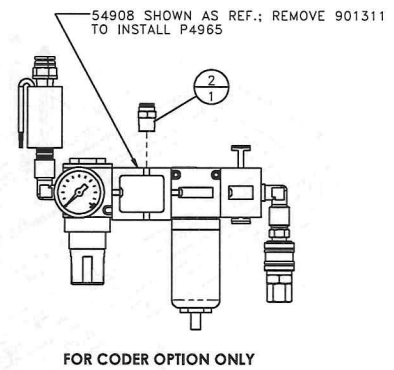
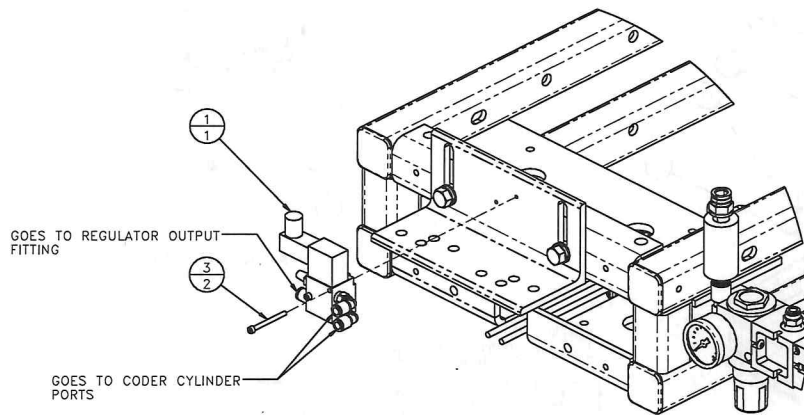
REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet 1	-	-
-	-	See Sheet 1	-	-

30	6	WL516SS	WASHER, LOCK, 5/16 SS
29	2	WL38SS	WASHER, LOCK, 3/8 SS
28	2	WL10SS	WASHER, LOCK #10 SS
27	2	WFM3SS	WASHER, FLAT M3 SS
26	4	WF516SS	WASHER, FLAT, 5/16 SS
25	2	WF14SS	WASHER, FLAT 1/4 SS
24	2	SCM316	SCREW, SOC CAP M3 X 10MM
23	2	SC102434SS	SCREW, SOC CAP #10-24 X 3/4 SS
22	2	NJ51618SS	NUT, HEX JAM 5/16-18 SS
21	1	NJ3824SS	NUT, HEX JAM 3/8-24 UNF SS
20	1	HA18244	CODER GUIDE, LEFT
19	1	HA18243	CODER GUIDE, RIGHT
18	1	HA18242	PLATE, CODER GUIDE
17	1	HA18240	CODER GUARD WELDMENT
16	1	HA18069	CYLINDER MOUNT, 500 EMB CODER
15	1	HA18068	RUBBER BACKUP ASSEMBLY
14	1	HA18067	CODER MOUNT, 500 EMBOSING
13	1	HA4085	CYLINDER ADAPTER (CODER)
12	1	HA4047-1	ASSY, TYPE HOLDER, 8 CHARACTER
11	1	HA4042	NO. KIT
10	1	HA3242	AIR CYLINDER
9	4	H5161878SS	BOLT, HEX HD 5/16-18 X 7/8 SS
8	2	H381678SS	BOLT, HEX HD 3/8-16 X 7/8 SS
7	2	H142012SS	BOLT, HEX HD 1/4-20 X 1/2 SS
6	1	700495	CORDSET, M12 SOCKET, 2M
5	1	69295	SENSOR, PHOTO, DIFF. 10-30VDC, M12
4	2	69069	FITTING, ELBOW 1/8 M X 1/4 T
3	1	67463	RELAY, LOGIC, 8-1, 4-0. 24VDC
2	2	40559	#10-24 THUMB SCREW .5" LG
1	1	10242	ALLEN WRENCH, 332

ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PMP) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE (PMP) 1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINISH SURFACE TREATMENT 4. SHIP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS (MFG) 1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINISH SURFACE TREATMENT 4. SHIP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			
MATERIAL		TOLERANCES	INCH
FINISH/COATING		UNLESS OTHERWISE SPECIFIED	✓ 125 MESH/IN .00125mm
HIST TREAT		SCALE	1:6
		DESCRIPTION	INCKLESS IMPACT CODER (8 CHARS)
		PART NO. 54916	
		DATE 12/28/2017	
		SHEET 4 of 5	

FIG. 40-3A 112 P4965 KIT - SCHEMATIC - 112

REV.	ECO#	DESCRIPTION	INITIALS	DATE
-	-	See Sheet1	-	-
-	-	See Sheet1	-	-



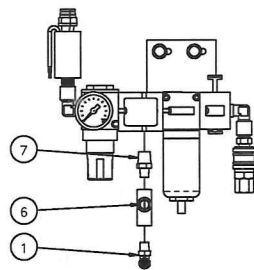
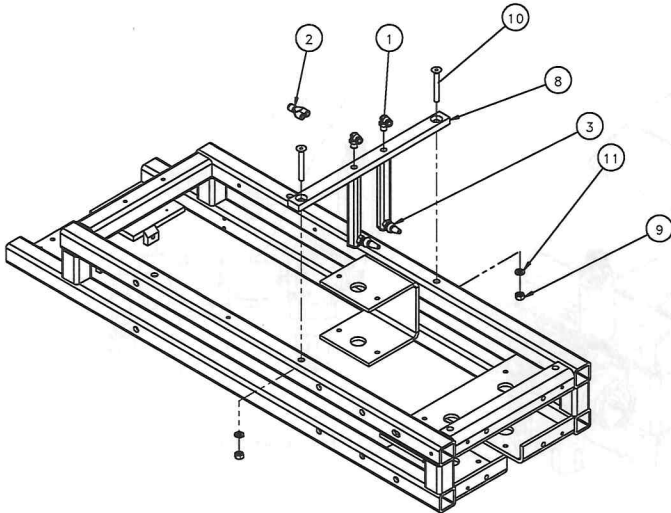
3	2	SC632112SS	SCREW, SOC CAP #6-32 X 1 1/2 SS
2	1	P4965	FITTING, MALE CONN 1/4 NPT X 1/4 T
1	1	54915	KIT, SOLENOID VALVE 24VDC
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE			
(PUR) SEE BOM		1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. SEAL, UNDERGIRDING APPLY AFTER FINAL SURFACE TREATMENT. 4. SETUP PART WITH NUMBER AT LOCATION SHOWN. 5. UNDERGIRDING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHOD.	
MATERIAL		REFERENCE	SCALE 1:3
(MFG)		REVISION	SIZE B
(PUR)		DATE	DESCRIPTION
FINISH/COATING		PRIMARY FINISH	INCH DD
HEAT TREAT		UNLESS OTHERWISE SPECIFIED	DATE 12/28/2017
		✓ 125 MINIMUM 1025 MINIMUM	54916
			5 of 5
			REV 2



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INCKLESS IMPACT CODER (8 CHARC)

7.3. ASSEMBLY, COOLING ATTACHMENT



FOR COOLING OPTION ONLY
SCALE 1:4

- NOTES:
1. USE 900515 CABLE-TIE AND FASTENER F63214 TO SECURE HOSES.
 2. SHORTEN ITEM 725448 AS MUCH AS POSSIBLE.

11	2	WL516SS	WASHER, LOCK, 5/16 SS
10	2	SF51618212SS	SCREW, SOC FLAT 5/16-18 X 2 1/2 BO
9	2	NH51618SS	NUT, HEX 5/16-18 UNC, SS
8	1	HA11737	COOLING WELDMENT
7	1	HA9613	REDUCER, 1/4 NPT X 1/8 NPT
6	1	HA0633	FLOW CONTROL-BLOCK, 1/8 NPT
5	1	F63214	SCREW, FLAT HD #6-32 X 1/4 BO
4	1	900515	MOUNTS:CABLE TIE:PANDUIT ABMS-A-D
3	2	725448	ASSY, 1/4" LOCLINE HOSE (#10095K11)
2	1	68515	FITTING, UNION, Y, 1/4 T
1	3	17027	FITTING, ELBOW .125M X .25T

ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS USED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED BY-HOUSE			
1. REMOVE ALL BURRS & SHARP EDGES 2. PLUS ALL TAPS BEFORE PAINT 3. ALL SURFACING APPLY AFTER FINAL SURFACE TREATMENT 4. STAMP PART WITH NUMBER AT LOCATION SHOWN 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			
DATE: SEE BOM			
MATERIAL			
TOLERANCE INCH MM SCALE 1:6			
DECIMAL .XX .005 .001			
ANGLES 30 MINUTES SIZE B			
PRIMARY UNITS IN INCH DIM RDV			
UNLESS OTHERWISE SPECIFIED 1/125 Microinch .002mm			
HEAT TREAT			
DATE 10/10/2016 PART NO. 0001			
10/10/2016 1 of 1 4			

HAUER FISCHBEIN
AUSTRIAN COMPANY

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ASSEMBLY, COOLING
ATTACHMENT

DESCRIPTION

HA11780

Figure 7-3: ASSEMBLY, COOLING ATTACHMENT

7.4. CASTER ASSEMBLY

REV.	ECO#	DESCRIPTION	INITIALS	DATE
1	6477	CREATED DRAWING FROM EXISTING ASSEMBLY		9/24/2018

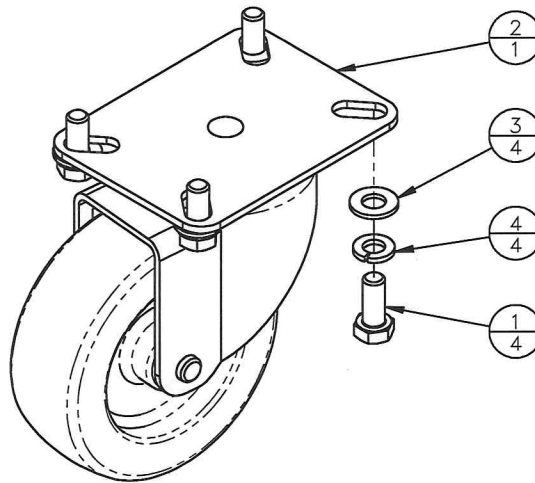


Figure 7-4: CASTER ASSEMBLY

4	16	WL516SS	WASHER, LOCK, 5/16 SS
3	16	WF516SS	WASHER, FLAT, 5/16 SS
2	4	HA0026-4	CASTER, 4" W/ BRAKE
1	16	H5161834SS	BOLT, HEX HD 5/16-18 X 3/4 SS
ITEM	QTY	PART NUMBER	DESCRIPTION
NOTE: SPECIFICATION PREFIXES AS LISTED (PUR) PURCHASED FROM VENDOR (MFG) MANUFACTURED IN-HOUSE (PUR) SEE BOM (MFG) FINISH/COATING HEAT TREAT			
1. REMOVE ALL BURRS & SHARP EDGES 2. PLUG ALL TAPS BEFORE PAINT 3. ALL DIMENSIONS APPLY AFTER FINAL SURFACE TREATMENT. 4. STAMP PART WITH NUMBER AT LOCATION SHOWN. 5. ENGINEERING APPROVAL REQUIRED FOR ALTERNATE CONSTRUCTION METHODS			
TOLERANCE INCH mm SCALE 1:2 DECIMAL .XX ±.02 ±.51 DECIMAL .XXX ±.005 ±.127 ANGLES ±30 MINUTES SIZE A PRIMARY UNITS = INCH DRN DD UNLESS OTHERWISE SPECIFIED ▽.125 Microinch .0032mm			
HAMER FISCHBEIN ADURAVANT COMPANY THE INFORMATION CONTAINED IN THIS DOCUMENT CANNOT BE REPRODUCED OR DIVULGED, IN WHOLE OR PART, WITHOUT SPECIFIC AUTHORIZATION FROM HAMER-FISCHBEIN LLC CASTERS ASSEMBLY DESCRIPTION HA11782 PART NO. (OPT) DWG NO. DATE 9/24/2018 SHEET 1 of 1 REV 1			

