

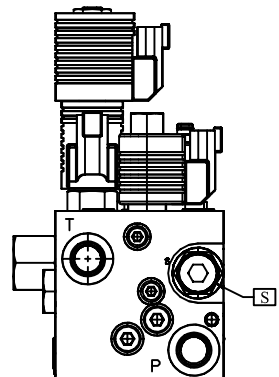
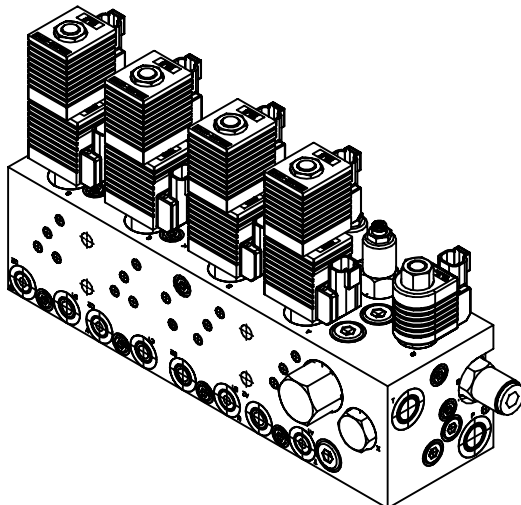
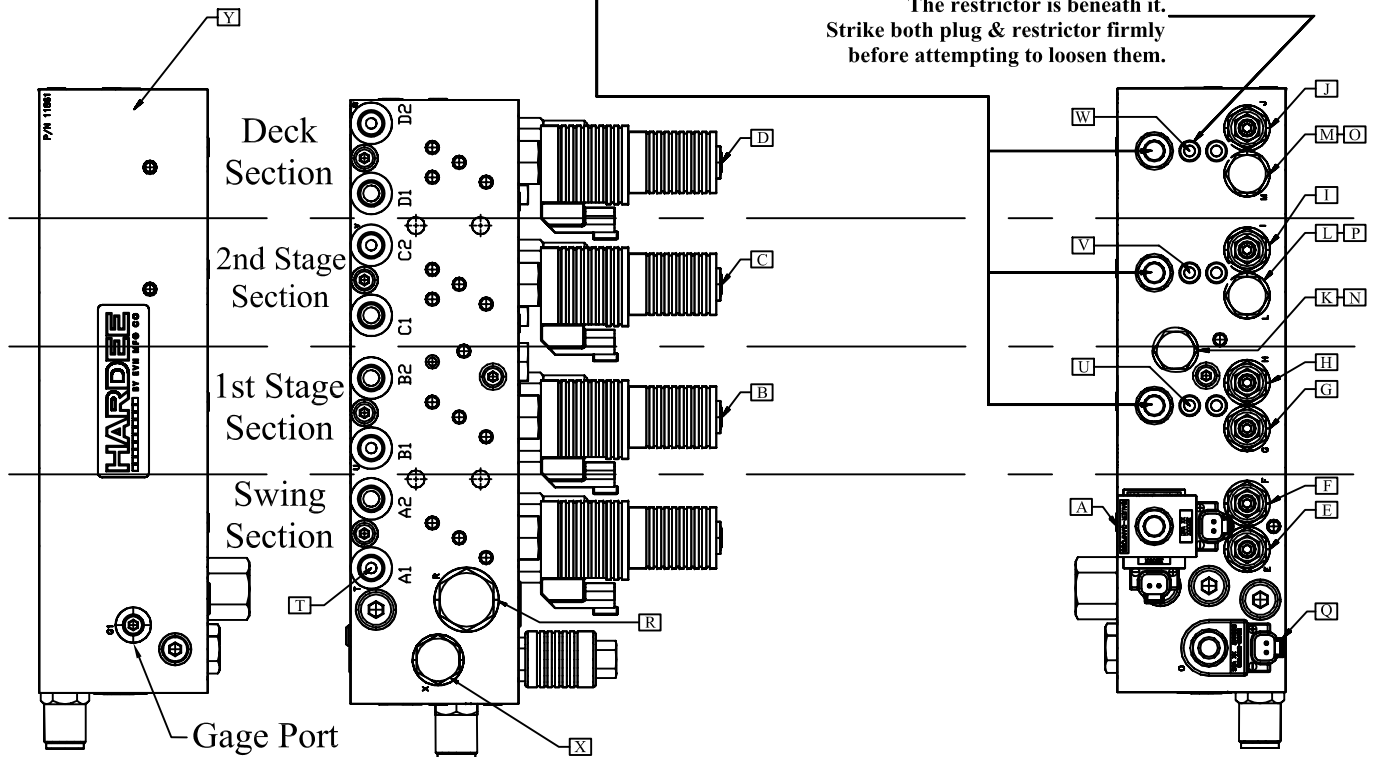
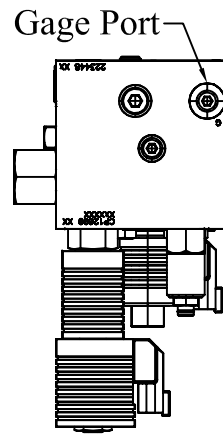
LR40148 Control Valve Port Listing

Item	Description	EVH P/N	Internal Parts	Torque	Setting
A	Solenoid Valve	15876	Coil	2.5 ft lbs. - Coil Nut	N/A
		15335	Stem	15 ft lbs. - Stem	
		16560	Seal Kit	-	
B	Solenoid Valve	15876	Coil	2.5 ft lbs. - Coil Nut	N/A
		15335	Stem	15 ft lbs. - Stem	
		16560	Seal Kit	-	
C	Solenoid Valve	15876	Coil	2.5 ft lbs. - Coil Nut	N/A
		15335	Stem	15 ft lbs. - Stem	
		16560	Seal Kit	-	
D	Solenoid Valve	15876	Coil	2.5 ft lbs. - Coil Nut	N/A
		15335	Stem	15 ft lbs. - Stem	
		16560	Seal Kit	-	
E	Counterbalance	16186	Valve	33 ft lbs.	1000 PSI
		16542	Seal Kit	-	
F	Counterbalance	16186	Valve	33 ft lbs.	1000 PSI
		16542	Seal Kit	-	
G	Counterbalance	16187	Valve	33 ft lbs.	1500 PSI
		16542	Seal Kit	-	
H	Counterbalance	16188	Valve	33 ft lbs.	800 PSI
		16542	Seal Kit	-	
I	Counterbalance	16189	Valve	33 ft lbs.	1800 PSI
		16542	Seal Kit	-	
J	Counterbalance	16189	Valve	33 ft lbs.	1800 PSI
		16542	Seal Kit	-	
K	Check Valve	16293		33 ft lbs.	N/A
L	Check Valve	16293		33 ft lbs.	N/A
M	Check Valve	16293		33 ft lbs.	N/A
N	Piston Ref. 621459	N/A		33 ft lbs.	N/A
O	Piston Ref. 621460	N/A		33 ft lbs.	N/A
P	Piston Ref. 621461	N/A		33 ft lbs.	N/A
Q	Solenoid Valve	15881	Coil	2.5 ft lbs. - Coil Nut	N/A
		15880	Stem	15 ft lbs. - Stem	
		16561	Seal Kit	-	
R	Priority Flow Control	16288	Valve	33 ft lbs.	5.0 GPM
		16512	Seal Kit	-	
S	Relief Valve	15908		-	2500 PSI
T	1/16-27 NPTF Orifice (.040)	15299		-	N/A
U	1/16-27 NPTF Orifice (.062)	16713		-	N/A
V	1/16-27 NPTF Orifice (.040)	15299		-	N/A
W	1/16-27 NPTF Orifice (.040)	15299		-	N/A
X	Check Valve	16293		44 ft lbs.	N/A
Y	Block Only	16525		-	N/A

LR40142 & LR40148 Orifice Locations

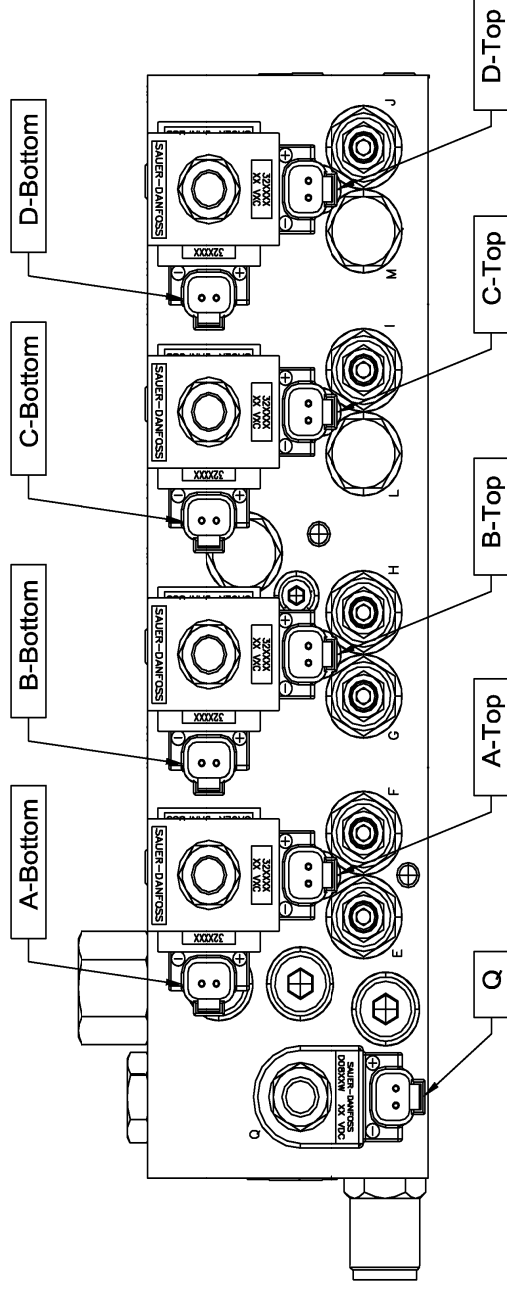
The "Deck", "1st Stage", and "2nd Stage" solenoids have been removed for drawing purposes only in order to show the stems in these three places

This is a $\frac{3}{16}$ " Allen Headed O-ring plug
The restrictor is beneath it.
Strike both plug & restrictor firmly before attempting to loosen them.



LR40148 Valve / Joystick Wiring Schematic

Function	Cylinder Port	Valve Port	Coil	Wire Color (+)	Pin No.	Wire Color (-)	Pin No.	Thumb Switch	Handle Position
Swing (Boom) Right	Rod	A1	A - Top	Orange	19	White	11	Closed	Right (E)
Swing (Boom) Left	Cap	A2	A - Bottom	Orange / Black	8	White	11	Closed	Left (W)
1st Stage Up	Cap	B1	B - Top	Red	9	White	11	Open	Down (S)
1st Stage Down	Rod	B2	B - Bottom	Red / Black	17	White	11	Open	Up (N)
2nd Stage Down	Rod	C1	C - Top	Green	16	White	11	Closed	Up (N)
2nd Stage Up	Cap	C2	C - Bottom	Green / Black	13	White	11	Closed	Down (S)
Head Down	Cap	D1	D - Top	Blue	18	White	11	Open	Left (W)
Head Up	Rod	D2	D - Bottom	Blue / Black	12	White	11	Open	Right (E)
Unload	N/A	N/A	Q	Black	2	White	11	Any	Any



LR40148Complete

DWG. NO.		22780		REV.		H	
REV	CHANGE	BY	DATE	ECN			
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672			
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655			
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675			
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.					
	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	2/17/17	1674			
H	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17	1686			

138	23232	1	Support Brace
	23280	1	WELDMENT, Cylinder Breakaway
140	23287	2	Boom To Deck Bracket Weldment
141	23290	2	WELDMENT, Boom to Deck Bracket, 21"
142	23292	1	PIN WELDMENT (1" x 5" LG)
143	23294	1	1st Stage Boom
144	23310	1	2nd Stage Boom
145	23320	1	Cylinder Mount Weldment
146	23325	1	WELDMENT, Weight Box
147	23335	1	Weldment, Oil Tank
148	23340	1	Stand Weldment
149	23345	1	Head Mounting Bracket Weldment
150	23349	1	Outer Hose Guard Weldment
151	23352	1	Inner Hose Guard Weldment
152	23355	1	WELDMENT, GUARD
153	23361	2	Spacer, 1" X 2-1/8"
154	23363	2	SPACER (1" SCH 40 Pipe x 5/8")
155	23370	1	1-1/2" x 31" SUCTION HOSE
156	23379	2	1-1/4" X 9" Pin Weldment for LR's
157	23380	1	WELDMENT, 1" x 6 1/4" PIN
158	23434	5	Pin Weldment
159	23457	2	COLLAR, for 23379 PIN (Bushing)
160	25117	2	Spacer
161	25724	5	WELDMENT, Cylinder Pin
162	26012	1	Wire Cover Weldment

Note:
This list of components is strictly to be viewed as a "BILL OF MATERIALS" of the "COMPLETE" mower. It is not related to any illustration.

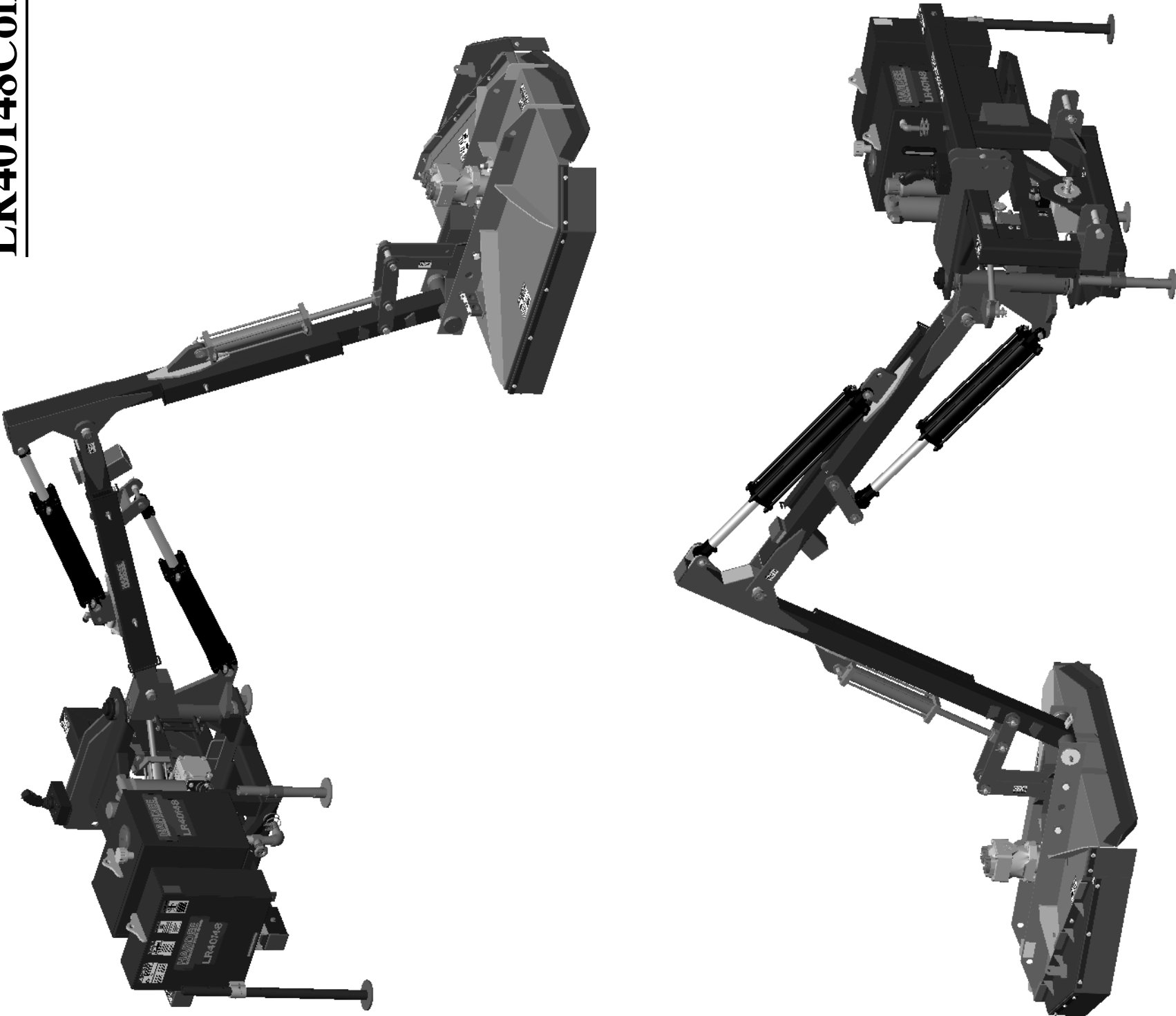
MODELED BY		T.B.B.	1/18/16	HARDEE BY		
				EVH MFG. CO.		
DRAWN BY		C.K.N.	3/23/10	LORIS S.C.		
MATERIAL		R.M.N.		DESCRIPTION	SHEET 1 of 9	
		N/A				
LR40148 COMPLETE						
Manufactured By: EVH Mfg. Co., LLC				DO NOT SCALE	DWG. NO.	22780
				DWG SIZE		

50	10865	1	PRESSURE HOSE 1" x 127"	95	15845-13	1	DANGER DECAL (KIT 15845)
51	10866	1	1" X 106" Pressure Hose	96	15845-14	1	DANGER DECAL (KIT 15845)
52	10872	2	Pressure Flange SET	97	15845-15	1	DANGER DECAL (KIT 15845)
53	11005	1	Decal, Warning - Thrown Objects	98	15845-16	2	DANGER DECAL (KIT 15845)
54	11010	3	Large Hardee Logo Decal	99	15845-2	1	DANGER DECAL (KIT 15845)
55	11032	1	Small Hardee Logo Decal	100	15845-3	4	WARNING DECAL (KIT 15845)
56	11673	1	Joystick	101	15845-8	1	DANGER DECAL (KIT 15845)
57	11675	1	Return Filter Assembly	102	15845-9	1	WARNING DECAL (KIT 15845)
58	11703	1	3/4" Street Elbow	103	15852	2	Red Reflector Decal
59	11714	6	6-M-JIC X 6-M-ORB Straight	104	15853	2	Yellow Reflector Decal
60	11727	1	Serial Number Plate	105	15854	1	Manual Holder
61	11850	1	Web Site Decal	106	15860	2	U-Nut, 1/4"-20
62	11860	10	TIE STRAP, (14" LG.) (100/PK)	107	15910	46	HOSE SLEEVE
63	11876	1	Hitch Frame Wiring Harness (Pigtail)	108	15968	1	Cotter Pin 1/4" x 3"
64	13332	2	CLAMP, SIZE 3/4" TO 1-3/4" X 9/16"	109	16012	2	Fitting, 12 F50X-S Straight Thread Connector
65	13335	4	STAINLESS STEEL CLAMP, 1-1/2" TO 1-3/4"	110	16050	4	Rivet For Wire Harness
66	13557	1	3/4"-M-NPT X 3/4" Metal Hose Barb	111	16071	1	PRESSURE HOSE 3/8" X 192" W/6-F-JIC
67	13563	1	1-1/4"-M-NPT X 1-1/2" Metal Hose Barb	112	16100	1	Sight Gauge 5", With Thermometer
68	13632	1	1/4" NPT Metal Cap	113	16138	2	Lock Nut 7/16"-14 NC with Nylon Insert
69	13697	1	1-1/4" NPT Female Threaded Elbow	114	16335	1	Hour Meter - not for resale
70	13758	1	20-M-NPT X 16-F-NPT Reducer	115	16579	1	Hydraulic Motor Housing Assembly
71	13778	1	1-1/4" X 3-1/2" Long NPT Nipple	116	16682	2	Relief Valve Assy. - 2700 PSI - Pump Mounted
72	13905	8	6-M-JIC X 8-M-NPT 90 Deg. Elbow	117	16683	2	Relief Valve 2700 PSI - w/TAMPER PROOF CAP
73	13909	2	6-M-JIC X 6-M-ORB 90 Deg. Elbow	118	16684	2	Fitting, #12 HB/ M-ORB Straight
74	13974	1	16-M-JIC X 16-M-NPT 90 Deg. Elbow	119	16685	8	Screw, 7/16-14 X 2-1/4 long - Zinc Plated
75	13975	2	12-M-ORB X 12-M-JIC 90 Deg. Elbow	120	16686	8	Lock Washer, Zinc Plated 7/16 High Collar
76	13981	2	8-M-ORB X 8-M-JIC Straight	121	16697	2	ORB Hollow Hex Plug
77	15241	1	Hydraulic Vane Motor	122	16747	2	CYLINDER, 3 X 17"
78	15251	1	1" Hose Clamp Body (SET OF 2)	123	16751	1	CYLINDER, 4 X 24 TIE ROD, Long Rod, LR"
79	15252	1	3/4" Hose Clamp Body (SET OF 2)	124	16845	1	Cylinder, 4" X 24" With 2.0" Rod
80	15255	2	Hose Clamp Cover Plate	125	20031	1	Access Cover
81	15259	1	Control Valve	126	22691	1	LR40148 / LR50148 Front Corner Belting
82	15263	1	Joystick Wiring Harness	127	22751	1	Short Belting Flat
83	15273	3	DECAL, MODEL LR40148	128	22770	1	LR40148 / LR50148 Belting Extension Kit
84	15326	1	Pressure Hose 3/8" X 17" Lg. W/ 6-F-JIC Both Ends	129	22799	1	LR40148 / LR50148 Rubber Belting Kit
85	15338	1	Danger Decal, Exposed Blades	130	22803	1	Blade Holder w/Blades
86	15339	1	PRESSURE HOSE 3/8" X 32" W/6-F-JIC	131	22806	1	LR40148 / LR50148 Deck Weldment (6 Bolt)
87	15461	2	CAP 37 Deg. Flare #8 (1/2")	132	22833	2	Fluid Connector
88	15466	2	Tubing Insert, 3-1/2" Sqr. X 11	133	23130	1	Pivot Sleeve
89	15481	1	Slotted Hex Nut 1-1/4" -18UNEF	134	23131	1	End Cap Weldment
90	15845	1	Hydraulic Decal Kit	135	23157	1	RETURN HOSE, 3/4 X 42"
91	15845-1	1	DANGER DECAL (KIT 15845)	136	23160	2	Stand Weldment, 17-7/8" Tall
92	15845-10	1	WARNING DECAL (KIT 15845)	137	23226	1	ASSEMBLY Hitch Frame, LR40148
93	15845-11	2	WARNING DECAL (KIT 15845)				
94	15845-12	1	DANGER DECAL (KIT 15845)				

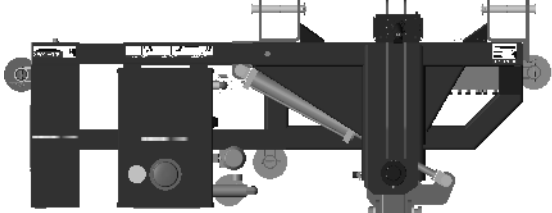
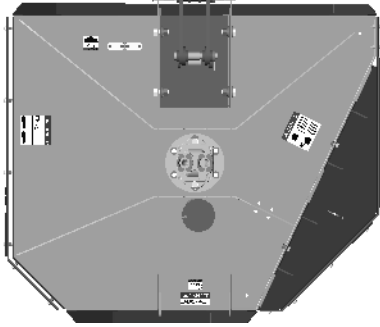
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Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions ± 1/16"	Angular Dimensions ± 1°
Decimal Dim. to Limits Shown	

LR40148Complete

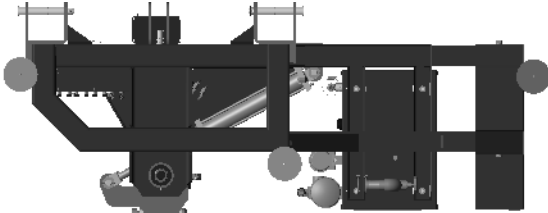
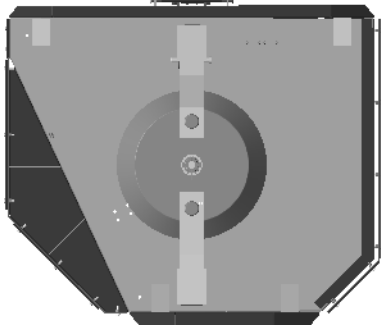
DWG. NO.		22780		REV.		H	
REV	CHANGE	BY	DATE	ECN			
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672			
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655			
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675			
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674			
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	2/17/17	1674			
	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17	1686			



Top View



Bottom View

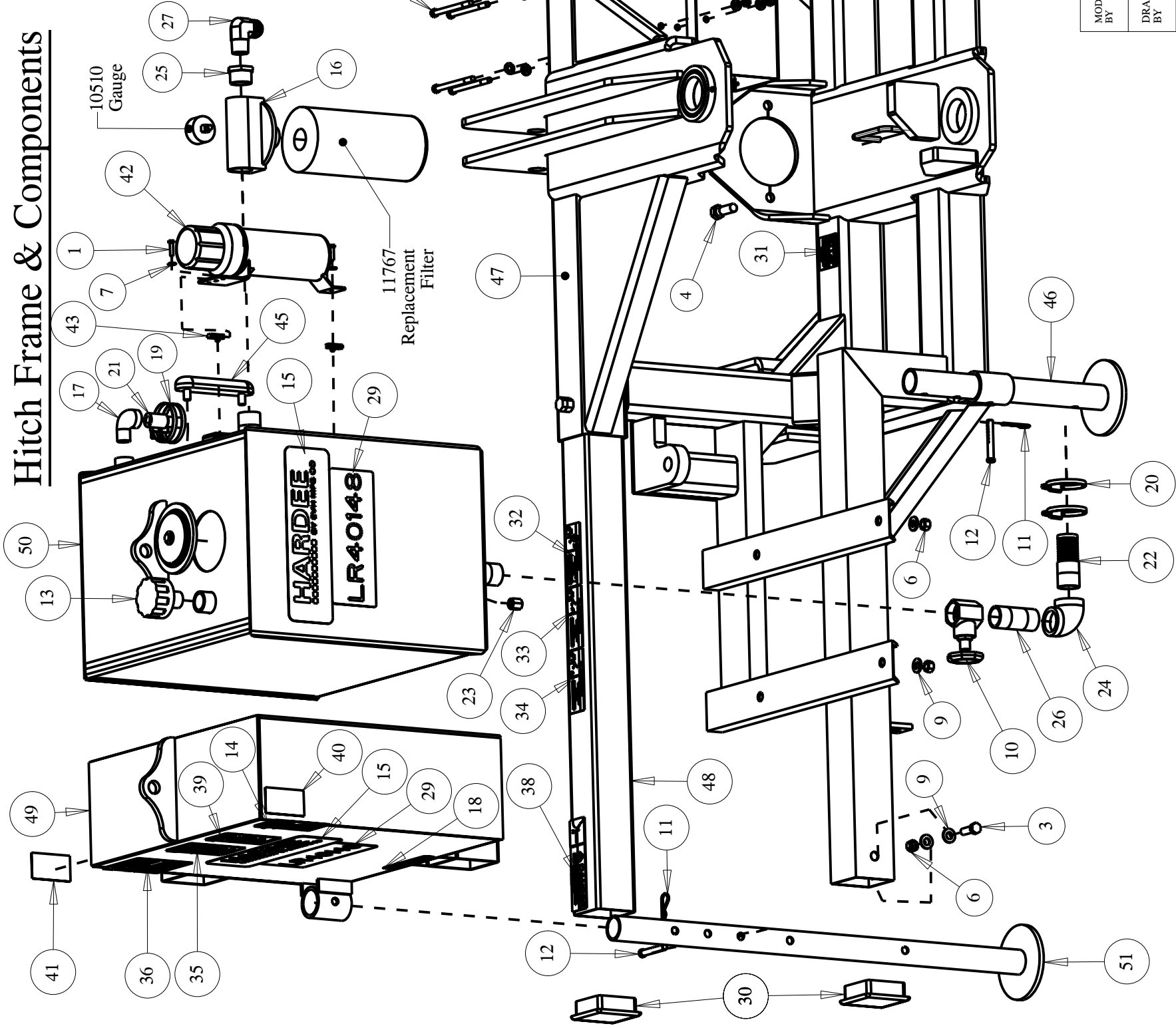


MODELED BY		T.B.B.	1/18/16	HARDEE BY EVH MFG. CO. LORIS S.C.			SHEET 2 of 9	
DRAWN BY		C.K.N.	3/23/10	DESCRIPTION				LR40148 COMPLETE
MATERIAL		R.M.N.		DO NOT SCALE				
Manufactured By: EVH Mfg. Co., LLC				N/A		DWG. NO.		22780

All Dimensions in Inches Unless Otherwise Specified Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions ± 1/16"	Angular Dimensions ± 1°
Decimal Dim. to Limits Shown	
All Holes to be +0 -1/32"	

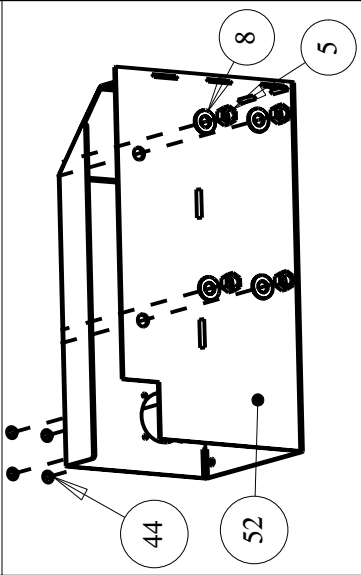
Item	Part Number	Qty.	Description
1	10002	2	Hex Bolt, 1/4"-20 X 1" Gr.5 Plated
2	10039	4	Hex Bolt 3/8 x 5 gr.5 plated
3	10072	2	Hex Bolt 1/2 x 1 1/2 gr.5 plated
4	10092	2	Hex Bolt 5/8 x 2 gr.5 plated
5	10175	4	3/8"-16 Locknut (Gr.5 Plated)
6	10176	6	1/2" Locknut (Gr.5 Plated)
7	10200	2	1/4" Plated Flatwasher
8	10202	8	3/8" Flatwasher (Plated)
9	10204	8	1/2 Flatwasher (Plated)
10	10368	1	1-1/4" Gate Valve
11	10390	3	Clip Pin (1/8 x 2)
12	10393	3	Universal Clip Pin
13	10501	1	FLOW EZY BREATHER
14	11005	1	Decal, Warning - Thrown Objects
15	11010	3	Large Hardee Logo Decal
16	11675	1	Return Filter Assembly
17	11703	1	3/4" Street Elbow
18	11850	1	Web Site Decal
19	13532	2	CLAMP, SIZE 3/4" TO 1-3/4" X 9/16"
20	13535	4	STAINLESS STEEL CLAMP, 1-1/2" TO 1-3/4"
21	13557	1	3/4"-M-NPT X 3/4" Metal Hose Barb
22	13563	1	1-1/4"-M-NPT X 1-1/2" Metal Hose Barb
23	13632	1	1/4" NPT Metal Cap
24	13697	1	1-1/4" NPT Female Threaded Elbow
25	13758	1	20-M-NPT X 16-F-NPT Reducer
26	13778	1	1-1/4" X 3-1/2" Long NPT Nipple
27	13974	1	16-M-JIC X 16-M-NPT 90 Deg. Elbow
28	15259	1	Control Valve
29	15273	3	DECAL, MODEL LR40148
30	15466	2	Tubing Insert, 3-1/2" Sqr. X 11
31	15845-11	1	WARNING DECAL (KIT 15845)
32	15845-12	1	DANGER DECAL (KIT 15845)
33	15845-13	1	DANGER DECAL (KIT 15845)
34	15845-14	1	DANGER DECAL (KIT 15845)
35	15845-15	1	DANGER DECAL (KIT 15845)
36	15845-16	1	DANGER DECAL (KIT 15845)
37	15845-2	1	DANGER DECAL (KIT 15845)
38	15845-8	1	DANGER DECAL (KIT 15845)
39	15845-9	1	WARNING DECAL (KIT 15845)
40	15852	1	Red Reflector Decal
41	15853	1	Yellow Reflector Decal
42	15854	1	Manual Holder
43	15860	2	U-Nut, 1/4"-20
44	16050	4	Rivet For Wire Harness
45	16100	1	Sight Gauge 5", With Thermometer
46	23160	2	Stand Weldment, 17-7/8" Tall
47	23226	1	ASSEMBLY Hitch Frame, LR40148
48	23232	1	Support Brace
49	23325	1	WELDMENT, Weight Box
50	23335	1	Weldment, Oil Tank
51	23340	1	Stand Weldment
52	26012	1	Wire Cover Weldment

Hitch Frame & Components



DWG. NO.	22780	REV.	H
REV	CHANGE	BY	DATE
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17
H	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17

Wire Cover Detailed View



See "Pump Options"—

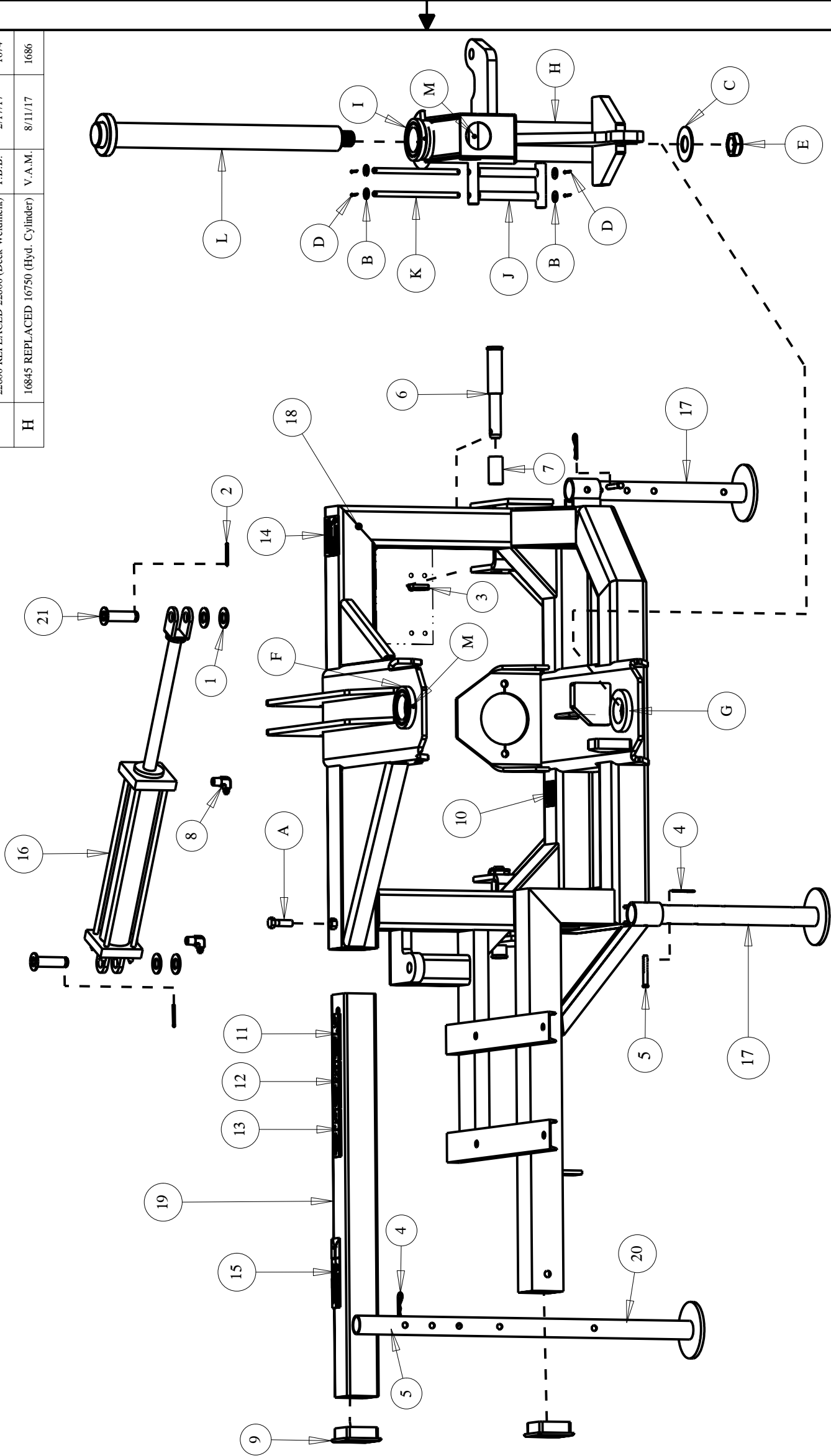
MODELED BY	T.B.B.	1/18/16	HARDEE BY EVH MFG. CO. LORIS S.C.		DESCRIPTION	SHEET 3 of 9
DRAWN BY	C.K.N.	3/23/10				
MATERIAL		R.M.N.		LR40148 COMPLETE		
Manufactured By: EVH Mfg. Co., LLC		N/A		DO NOT SCALE	B DWG. NO.	22780

Item	Part Number	Qty.	Description
1	10207	4	Flatwasher, 1" plated
2	10252	2	Cotter Pin 3/16" X 2" Plated
3	10346	2	3 pt. Snap Pin (Lynch Pin)
4	10390	3	Clip Pin (1/8 x 2)
5	10393	3	Universal Clip Pin
6	10419	2	Hitch Pin, Cat. 2 & 3, Clevis Style
7	10538	2	Sleeve for 10419 Pin
8	13905	2	6-M-JIC X 8-M-NPT 90 Deg. Elbow
9	15466	2	Tubing Insert, 3-1/2" Sqr. X 11
10	15845-11	1	WARNING DECAL (KIT 15845)
11	15845-12	1	DANGER DECAL (KIT 15845)
12	15845-13	1	DANGER DECAL (KIT 15845)
13	15845-14	1	DANGER DECAL (KIT 15845)
14	15845-2	1	DANGER DECAL (KIT 15845)
15	15845-8	1	DANGER DECAL (KIT 15845)
16	16747	1	CYLINDER, 3 X 17"
17	23160	2	Stand Weldment, 17-7/8" Tall
18	23226	1	ASSEMBLY Hitch Frame, LR40148
19	23232	1	Support Brace
20	23340	1	Stand Weldment
21	25724	2	WELDMENT, Cylinder Pin

Item	Part Number	Qty.	Description
A	10092	1	HEX BOLT (5/8" X 2" GR. 5 PLATED)
B	10204	4	FLAT WASHER, 1/2" Plated, USS
C	10215	1	FLAT WASHER (1-1/2") USS Plain Zinc
D	10237	4	COTTER PIN (1/8" X 1-1/4" PLATED)
E	16294	1	LOCKNUT, 1-1/2"-12 Zinc Plated Nylon Insert Jam
F	23257	2	BUSHING W/ GREASE FITTING, 4-1/4" OD
G	23258	2	BUSHING, 4-1/4" OD X 7/8" LG.
H	23261	1	WELDMENT, Swivel, LR50160
I	23268	2	BUSHING W/GREASE FITTING, 4-1/4" OD
J	23272	2	HOSE BRACKET ROLLER
K	23273	2	Hose Bracket Rod
L	23284	1	WELDMENT, Swing arm shaft, LR50160/LR40160
M	10322	5	GREASE FITTING, 1/4"-28 Thd

Hitch Frame & Swivel

DWG. NO.	22780		REV.	
	REV	CHANGE	BY	DATE
F	16705	REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16
	16747	REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17
G	16750	REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17
	16751	REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17
H	22806	REPLACED 22806 (Deck Weldment)	T.B.B.	1674
	16845	REPLACED 16750 (Hyd. Cylinder)	V.A.M.	1686



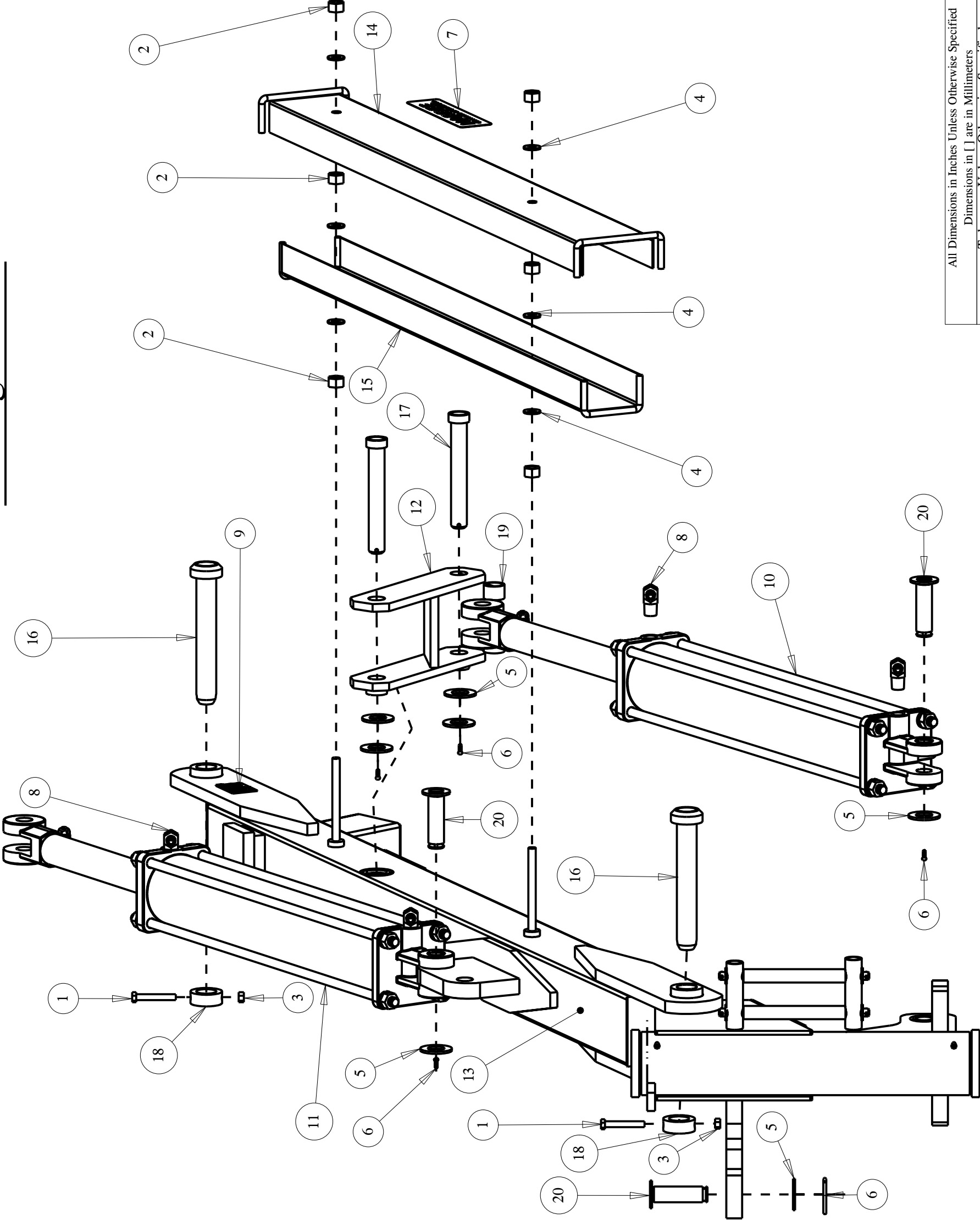
MODELED BY		T.B.B.	1/18/16	HARDEE BY	
DRAWN BY		C.K.N.	3/23/10	EVH MFG. CO.	
		R.M.N.		LORIS S.C.	
MATERIAL				DESCRIPTION	SHEET 4 of 9
				LR40148 COMPLETE	
Manufactured By:			DO NOT SCALE	DWG. NO.	22780
EVH Mfg. Co., LLC					

All Dimensions in Inches Unless Otherwise Specified	
Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions ± 1/16"	Angular Dimensions ± 1°
Decimal Dim. to Limits Shown	
All Holes to be +0 -1/32"	

1st Stage Boom

DWG. NO.		22780		REV.		H	
REV	CHANGE	BY	DATE	ECN			
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672			
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655			
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675			
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674			
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	2/17/17	1674			
	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17	1686			

Item	Part Number	Qty.	Description
1	10034	2	Hex Bolt 3/8" x 2-1/2" gr.5 plated
2	10166	6	Lock Nut 5/8" -11 plated
3	10175	2	3/8"-16 Locknut (Gr.5 Plated)
4	10204	6	1/2 Flatwasher (Plated)
5	10207	7	Flatwasher, 1" plated
6	10252	5	Cotter Pin 3/16" X 2" Plated
7	11032	1	Small Hardee Logo Decal
8	13905	4	6-M-JIC X 8-M-NPT 90 Deg. Elbow
9	15845-3	2	WARNING DECAL (KIT 15845)
10	16751	1	CYLINDER, 4 X 24 TIE ROD, Long Rod, LR"
11	16845	1	Cylinder, 4" X 24" With 2.0" Rod
12	23280	1	WELDMENT, Cylinder Breakaway
13	23294	1	1st Stage Boom
14	23349	1	Outer Hose Guard Weldment
15	23352	1	Inner Hose Guard Weldment
16	23379	2	1-1/4" X 9" Pin Weldment for LR's
17	23434	2	Pin Weldment
18	23457	2	COLLAR, for 23379 PIN (Bushing)
19	25117	2	Spacer
20	25724	3	WELDMENT, Cylinder Pin

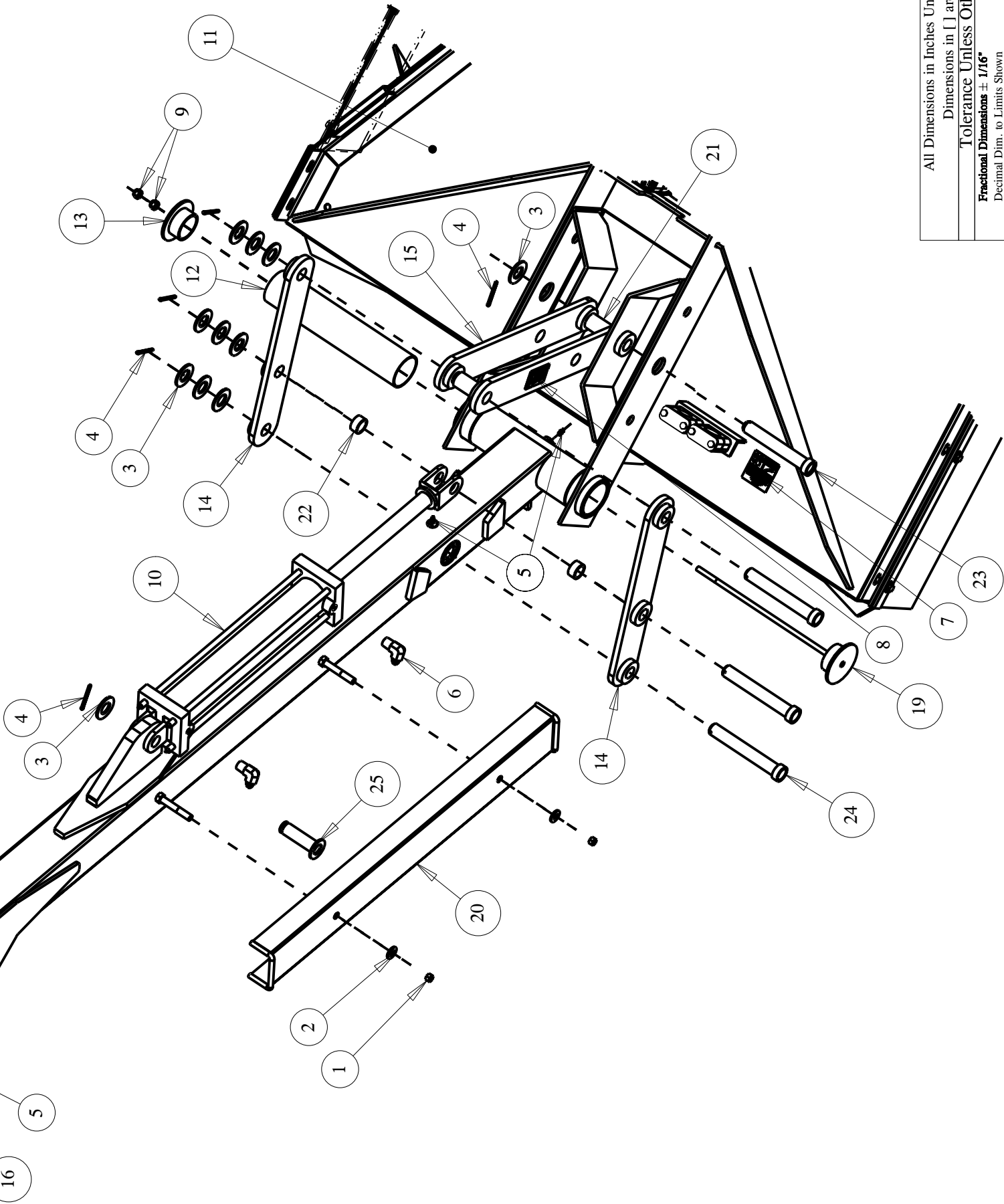


All Dimensions in Inches Unless Otherwise Specified Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions ± 1/16"	Angular Dimensions ± 1°
Decimal Dim. to Limits Shown	

MODELED BY	T.B.B.	1/18/16	HARDEE BY	
DRAWN BY	C.K.N.	3/23/10	EVH MFG. CO.	
			LORIS S.C.	
MATERIAL		R.M.N.	DESCRIPTION	SHEET 5 of 9
		N/A	LR40148 COMPLETE	
Manufactured By:		DO NOT SCALE	DWG. NO.	22780
EVH Mfg. Co., LLC				

2nd Stage Boom

DWG. NO.	22780		REV.	H
REV	CHANGE	BY	DATE	ECN
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	2/17/17	1674
	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17	1686



Item	Part Number	Qty.	Description
1	10175	2	3/8"-16 Locknut (Gr.5 Plated)
2	10204	2	1/2 Flatwasher (Plated)
3	10207	12	Flatwasher, 1" plated
4	10252	6	Cotter Pin 3/16" X 2" Plated
5	10322	3	1/4" Grease Fitting, 1/4"-28 Threaded
6	13905	2	6-M-JIC X 8-M-NPT 90 Deg. Elbow
7	15845-11	1	WARNING DECAL (KIT 15845)
8	15845-3	2	WARNING DECAL (KIT 15845)
9	16138	2	Lock Nut 7/16"-14 NC with Nylon Insert
10	16747	1	CYLINDER, 3 X 17"
11	22806	1	LR40148 / LR50148 Deck Weldment (6 Bolt)
12	23130	1	Pivot Sleeve
13	23131	1	End Cap Weldment
14	23287	2	Boom To Deck Bracket Weldment
15	23290	2	WELDMENT, Boom to Deck Bracket, 21"
16	23292	1	PIN WELDMENT (1" x 5" LG)
17	23294	1	1st Stage Boom
18	23310	1	2nd Stage Boom
19	23345	1	Head Mounting Bracket Weldment
20	23355	1	WELDMENT, GUARD
21	23361	2	Spacer, 1" X 2-1/8"
22	23363	2	SPACER (1" SCH 40 Pipe x 5/8")
23	23380	1	WELDMENT, 1" x 6 1/4" PIN
24	23434	3	Pin Weldment
25	25724	1	WELDMENT, Cylinder Pin

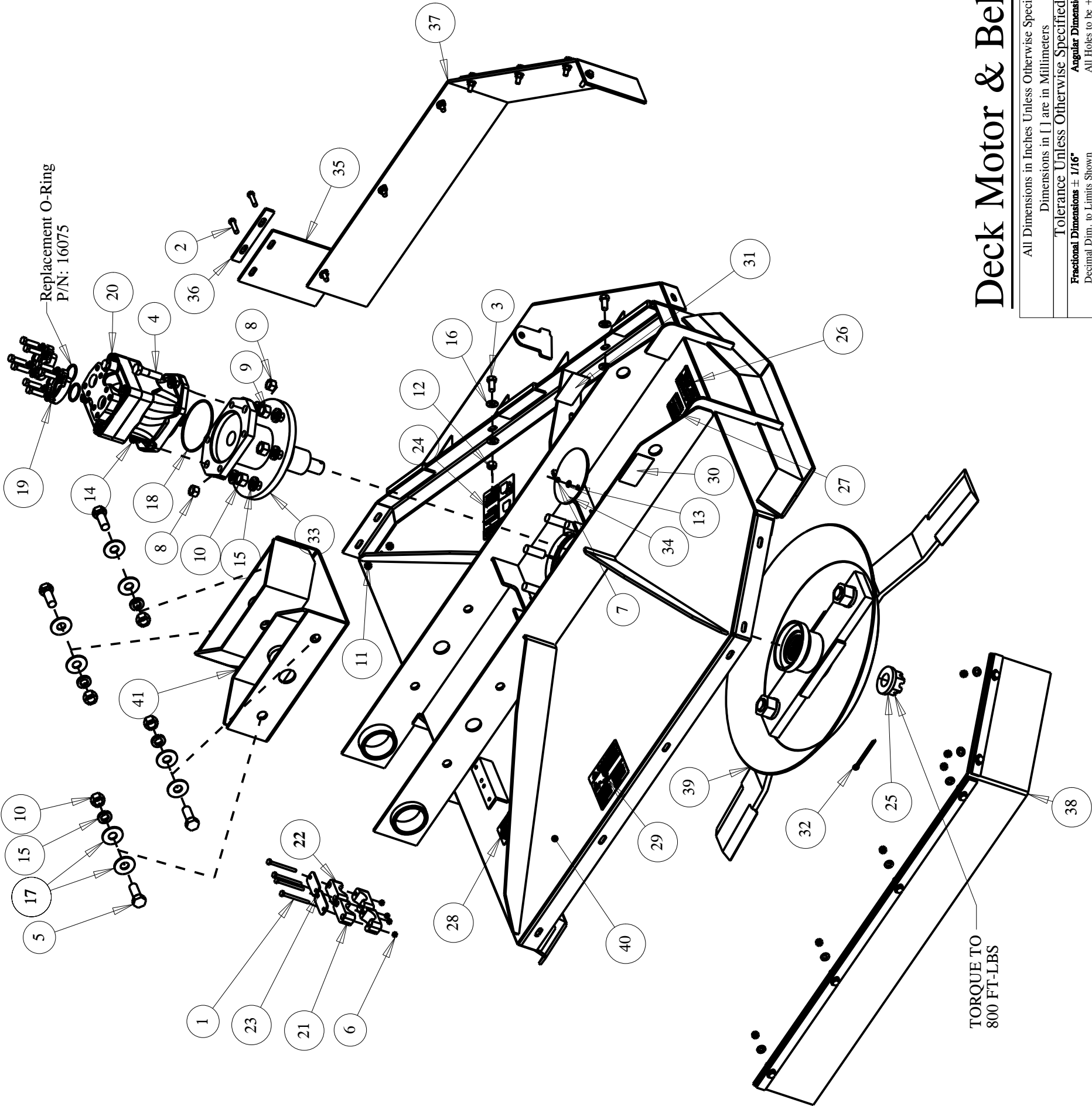
MODELED BY		T.B.B.	1/18/16	HARDEE BY EVH MFG. CO. LORIS S.C.		
DRAWN BY		C.K.N.	3/23/10			
MATERIAL		R.M.N.				
N/A				DESCRIPTION		
				SHEET 6 of 9		
				LR40148 COMPLETE		
Manufactured By: EVH Mfg. Co., LLC				DO NOT SCALE	B	DWG. NO.
				22780		

All Dimensions in Inches Unless Otherwise Specified	
Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions ± 1/16"	Angular Dimensions ± 1°
Decimal Dim. to Limits Shown	

DWG. NO.		22780		REV.		H
REV	CHANGE	BY	DATE	ECN		
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672		
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655		
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675		
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674		
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	2/17/17	1674		
	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.	8/11/17	1686		

Item	Part Number	Qty.	Description
1	10006	4	Hex Bolt 1/4" x 3" gr.5 plated
2	10032	2	Hex Bolt 3/8 x 1-1/2 gr.5 plated
3	10071	2	Hex Bolt 1/2 x 1 gr.5 plated
4	10093	2	Hex Bolt 5/8" x 2-1/2" gr.5 plated
5	10111	4	Hex Bolt 3/4"-10 X 2" gr.5 Plated
6	10153	4	Lock Nut, 1/4" Plated
7	10154	1	Lock Nut 5/16"-18 Plated
8	10166	2	Lock Nut 5/8"-11 plated
9	10167	2	3/4" Hex Nut (Gr.5 Plated)
10	10168	8	3/4"-10 Locknut (Gr.5 Plated)
11	10175	2	3/8"-16 Locknut (Gr.5 Plated)
12	10176	2	1/2" Locknut (Gr.5 Plated)
13	10181	1	Lockwasher 5/16" plated
14	10185	2	Lockwasher 5/8" Plated
15	10186	10	Lockwasher 3/4" Plated
16	10204	4	1/2 Flatwasher (Plated)
17	10206	8	Flatwasher 3/4 plated
18	10388	1	O-Ring
19	10872	2	Pressure Flange SET
20	15241	1	Hydraulic Vane Motor
21	15251	1	1" Hose Clamp Body (SET OF 2)
22	15252	1	3/4" Hose Clamp Body (SET OF 2)
23	15255	2	Hose Clamp Cover Plate
24	15338	1	Danger Decal, Exposed Blades
25	15481	1	Slotted Hex Nut 1-1/4" -18UNEF
26	15845-1	1	DANGER DECAL (KIT 15845)
27	15845-10	1	WARNING DECAL (KIT 15845)
28	15845-11	1	WARNING DECAL (KIT 15845)
29	15845-16	1	DANGER DECAL (KIT 15845)
30	15852	1	Red Reflector Decal
31	15853	1	Yellow Reflector Decal
32	15968	1	Cotter Pin 1/4" x 3"
33	16579	1	Hydraulic Motor Housing Assembly
34	20031	1	Access Cover
35	22691	1	LR40148 / LR50148 Front Corner Belting
36	22751	1	Short Belting Flat
37	22770	1	LR40148 / LR50148 Belting Extension Kit
38	22799	1	LR40148 / LR50148 Rubber Belting Kit
39	22803	1	Blade Holder w/Blades
40	22806	1	LR40148 / LR50148 Deck Weldment (6 Bolt)
41	23320	1	Cylinder Mount Weldment

ng	MODELED BY	T.B.B.	1/18/16	HARDEE BY EVH MFG. CO.	
	DRAWN BY	C.K.N.	3/23/10	LORIS S.C.	
	MATERIAL		R.M.N.	DESCRIPTION	SHEET 7 of 9
	N/A			LR40148 COMPLETE	
	Manufactured By: EVH Mfg. Co., LLC			DO NOT SCALE	B DWG. NO.
					22780



Deck Motor & Belting

All Dimensions in Inches Unless Otherwise Specified Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions $\pm 1/16"$	Angular Dimensions $\pm 1^\circ$
Decimal Dim. to Limits Shown	

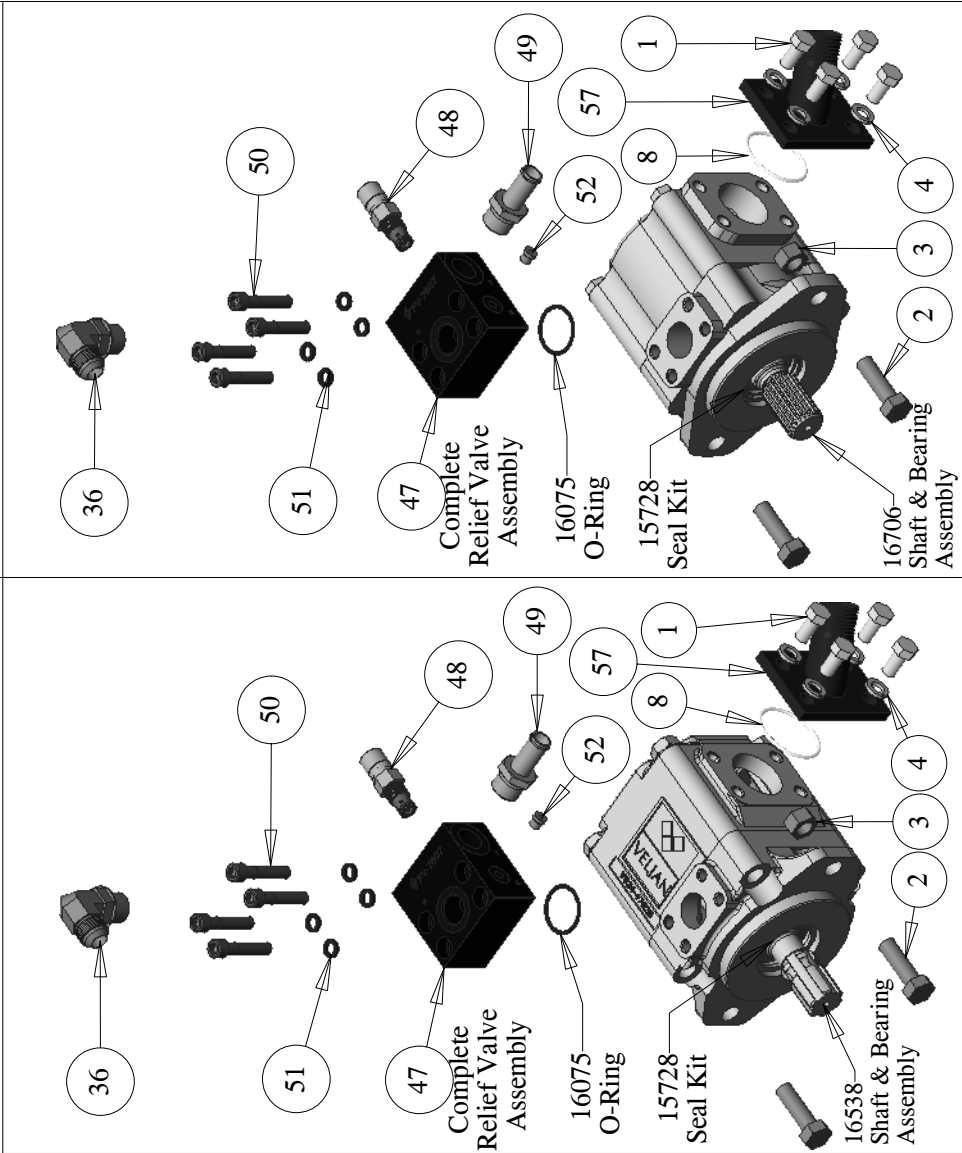
Hydraulic Schematic For LR40148

Item	Part Number	Qty.	Description
1	10071	8	Hex Bolt 1/2 x 1 gr.5 plated
2	10092	4	Hex Bolt 5/8 x 2 gr.5 plated
3	10166	4	Lock Nut 5/8"-11 plated
4	10184	8	Lockwasher 1/2 plated
5	10336	1	Gear Oil [85W-140] - (Not Shown)
6	10368	1	1-1/4" Gate Valve
7	10373	1	Hydraulic Oil
8	10387	2	O-ring
9	10501	1	FLOW EZY BREATHER
10	10582	1	PRESSURE HOSE 3/8" X 55" W/6-F-JIC
11	10583	1	3/8" SAE 100 R1 X 125" W/6-F-JIC
12	10584	1	PRESSURE HOSE 3/8" X 210" W/6-F-JIC
13	10585	2	PRESSURE HOSE 3/8" X 83" W/6-F-JIC
14	10586	1	3/8" X 86" Pressure Hose W/ 6-F-JIC X 8-M-NPT
15	10587	1	PRESSURE HOSE 3/4" X 106" W/12-M-JIC
16	10588	1	PRESSURE HOSE 3/4" x 127"
17	10646	1	Grease
18	10865	1	PRESSURE HOSE 1" x 127"
19	10866	1	1" X 106" Pressure Hose
20	11673	1	Joystick
21	11675	1	Return Filter Assembly
22	11703	1	3/4" Street Elbow
23	11714	6	6-M-JIC X 6-M-ORB Straight
24	11775	1	Hydraulic 540RPM Pump
25	11876	1	Hitch Frame Wiring Harness (Pigtail)
26	13532	2	CLAMP, SIZE 3/4" TO 1-3/4" X 9/16"
27	13535	4	STAINLESS STEEL CLAMP, 1-1/2" TO 1-3/4"
28	13557	1	3/4"-M-NPT X 3/4" Metal Hose Barb
29	13563	1	1-1/4"-M-NPT X 1-1/2" Metal Hose Barb
30	13697	1	1-1/4" NPT Female Threaded Elbow
31	13758	1	20-M-NPT X 16-F-NPT Reducer
32	13778	1	1-1/4" X 3-1/2" Long NPT Nipple
33	13905	8	6-M-JIC X 8-M-NPT 90 Deg. Elbow
34	13909	2	6-M-JIC X 6-M-ORB 90 Deg. Elbow
35	13974	1	16-M-JIC X 16-M-NPT 90 Deg. Elbow
36	13975	2	12-M-ORB X 12-M-JIC 90 Deg. Elbow
37	13981	2	8-M-ORB X 8-M-JIC Straight
38	15241	1	Hydraulic Vane Motor
39	15259	1	Control Valve
40	15263	1	Joystick Wiring Harness
41	15273	1	DECAL, MODEL LR40148
42	15326	1	Pressure Hose 3/8" X 17" Lg. W/ 6-F-JIC Both Ends
43	15339	1	PRESSURE HOSE 3/8" X 32" W/6-F-JIC
44	15461	2	CAP 37 Deg. Flare #8 (1/2")
45	15910	46	HOSE SLEEVE
46	16071	1	PRESSURE HOSE 3/8" X 192" W/6-F-JIC
47	16682	2	Relief Valve Assy. - 2700 PSI - Pump Mounted
48	16683	2	Relief Valve 2700 PSI - w/TAMPER PROOF CAP

DWG. NO.		22780		REV.		H	
REV	CHANGE	BY	DATE	ECN			
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672			
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655			
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675			
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674			
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	8/11/17	1686			
	16845 REPLACED 16750 (Hyd. Cylinder)	V.A.M.					

Pump Options

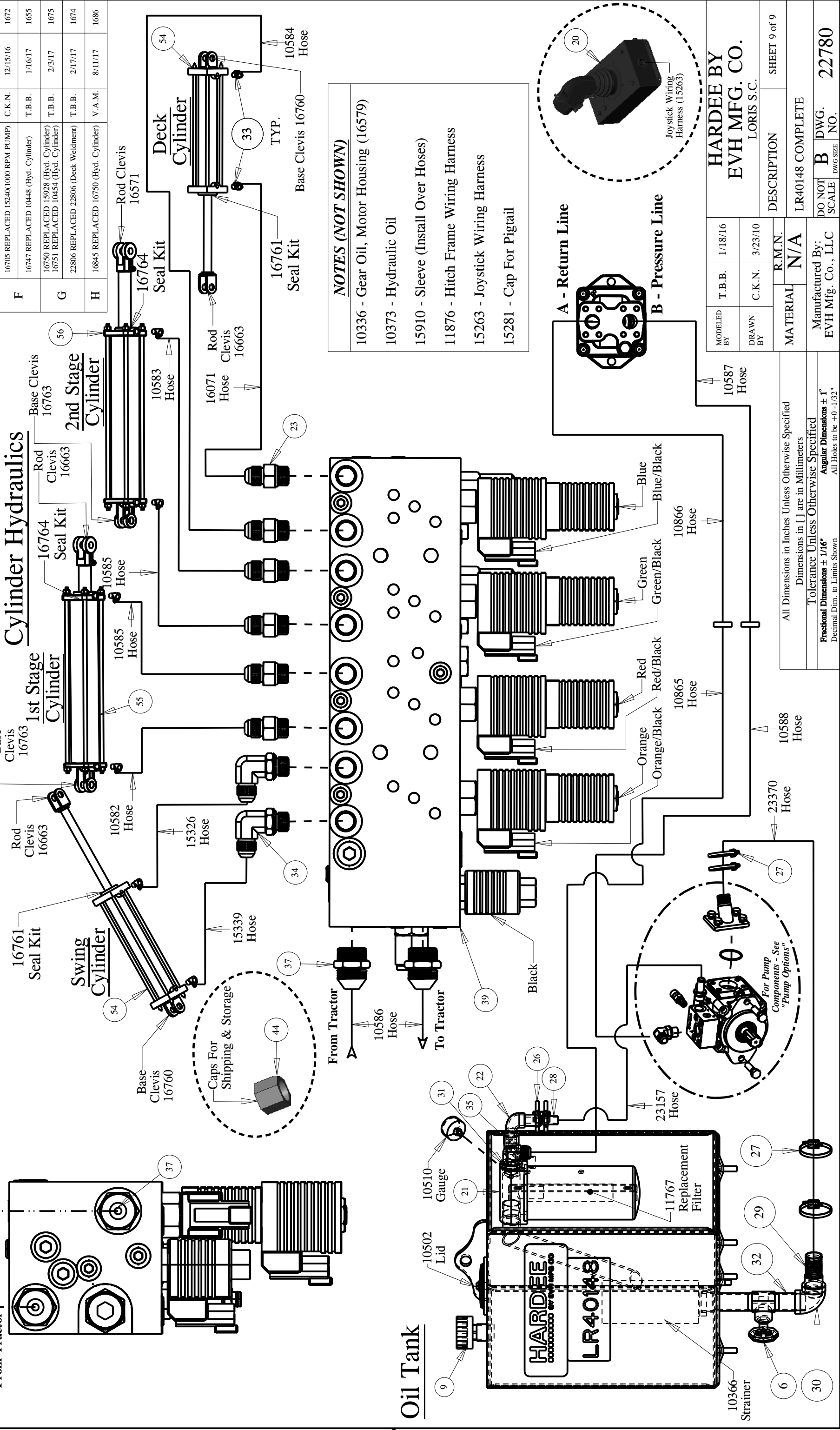
540 RPM - P/N: 11775 1000 RPM - P/N: 16705



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Hydraulic Schematic For LR40148

DWG. NO.		22780		REV.		H	
REV	CHANGE	BY	DATE	ECN			
F	16705 REPLACED 15240(1000 RPM PUMP)	C.K.N.	12/15/16	1672			
	16747 REPLACED 10448 (Hyd. Cylinder)	T.B.B.	1/16/17	1655			
G	16750 REPLACED 15928 (Hyd. Cylinder)	T.B.B.	2/3/17	1675			
	16751 REPLACED 10454 (Hyd. Cylinder)	T.B.B.	2/17/17	1674			
H	22806 REPLACED 22806 (Deck Weldment)	T.B.B.	8/11/17	1686			



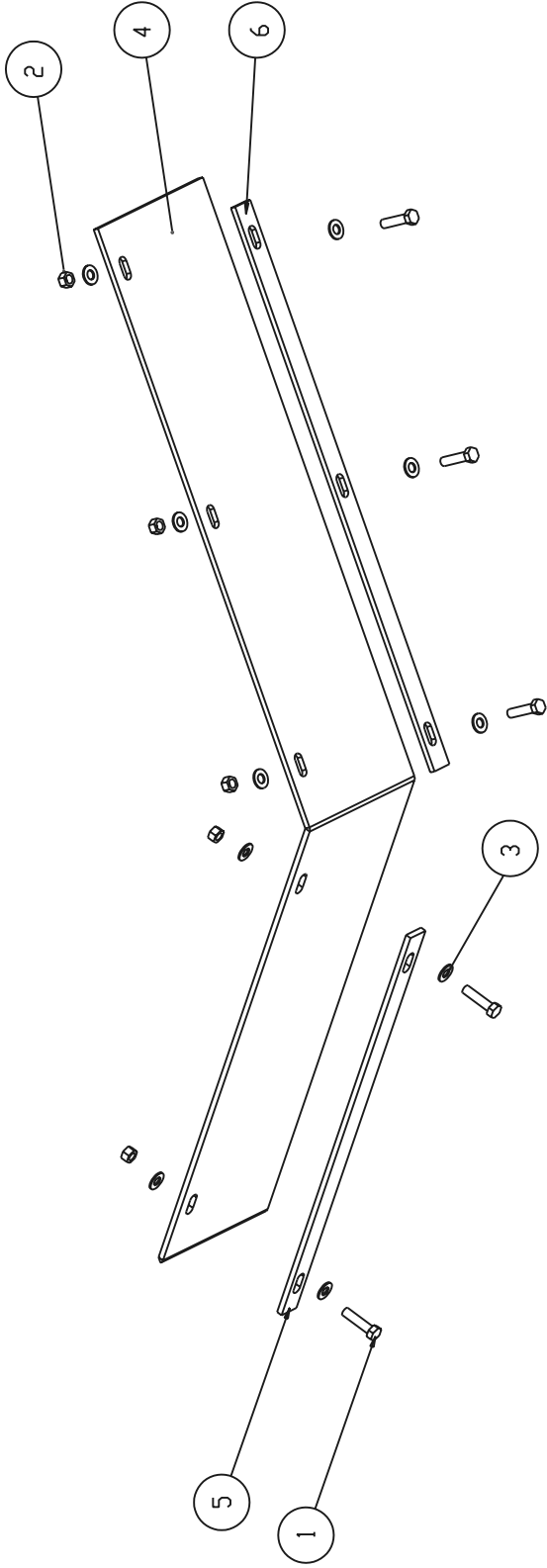
MODELED BY		T.B.B.	1/18/16	HARDEE BY EVH MFG. CO. LORIS S.C.	
DRAWN BY		C.K.N.	3/23/10	DESCRIPTION	SHEET 9 of 9
MATERIAL		R.M.N.		LR40148 COMPLETE	
Manufactured By:		N/A			
EVH Mfg. Co., LLC		DO NOT SCALE		B DWG. NO.	22780

HARDEE BY
EVH MFG. CO.
LORIS S.C.

SHEET 9 of 9

Item	Part Number	Qty.	Description
1	10032	6	Hex Bolt 3/8 x 1-1/2 gr.5 plated
2	10175	6	3/8" Locknut (Gr.5 Plated)
3	10202	12	3/8" Flatwasher (Plated)
4	22692	1	Belting for LR40148 Extension
5	22778	1	Short Rubber Belting Flat
6	22779	1	Belting Extension Flat

DWG. NO.	22799			REV.	IR
REV	CHANGE	BY	DATE	ECN	
IR	INITIAL RELEASE	BC	8/22/07	---	---

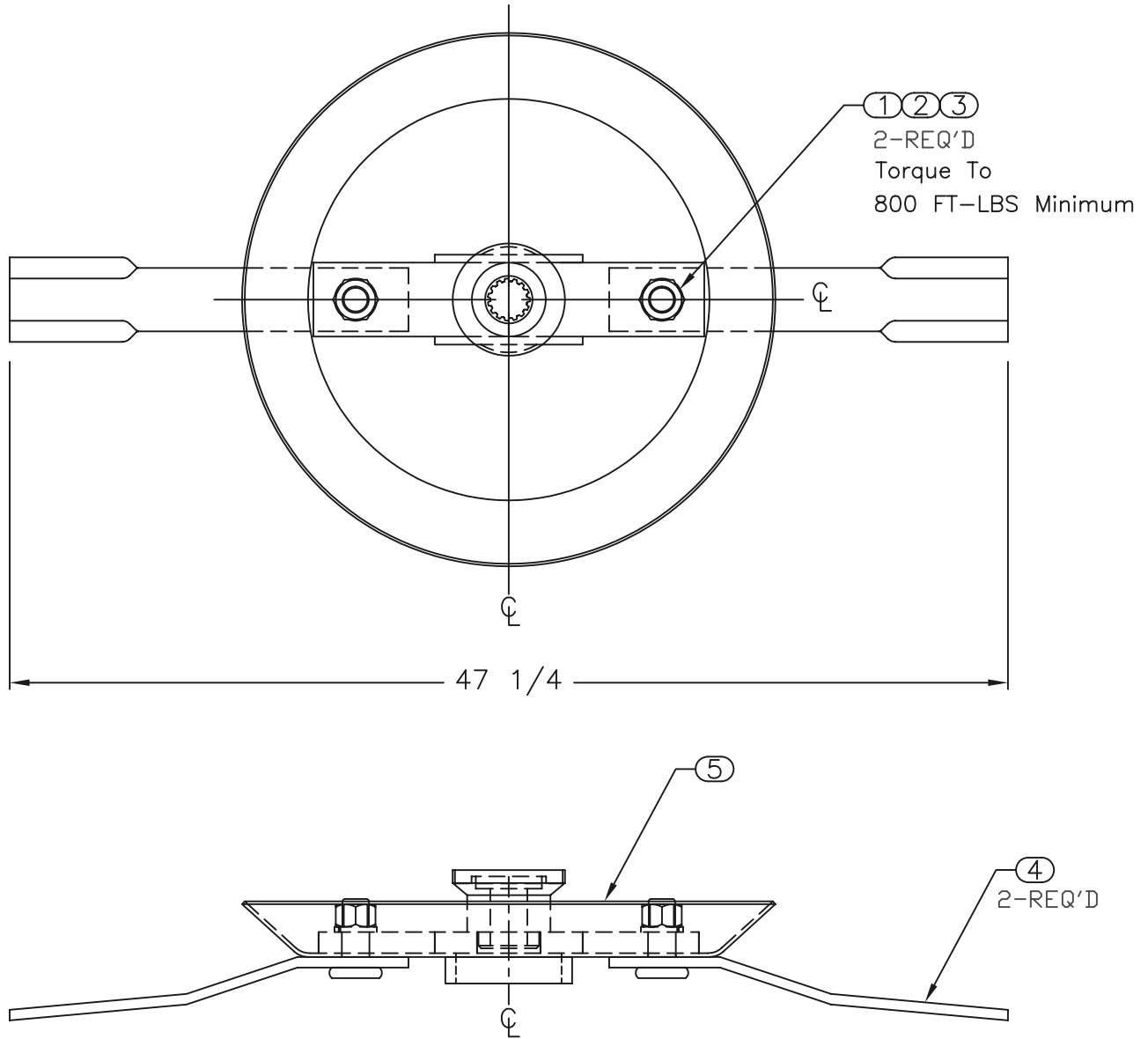


MODELED BY	BC	8/22/07	HARDEE EVH MFG CO. LORIS SC.		
DRAWN BY	BC	8/22/07	DESCRIPTION		
MATERIAL		R.M.N.	SHEET 1 of 1		
Manufactured by:		N/A	LR40148 / LR50148 Rear Belting Kit		
EVH MFG CO, LLC			DO NOT SCALE	A DWG. NO.	22799

All Dimensions in Inches Unless Otherwise Specified	
Dimensions in [] are in Millimeters	
Tolerance Unless Otherwise Specified	
Fractional Dimensions $\pm 1/16"$	Angular Dimensions $\pm 1^\circ$
Decimal Dim. to Limits Shown	All Holes to be $+0 -1/32"$

ITEM NO.	PART NUMBER	QTY REQD.	NOMENCLATURE OR DESCRIPTION
1	10311	2	BLADE BOLT NUT GR.8
2	10312	2	BLADE BOLT LOCKWASHER GR.8
3	10313	2	BLADE BOLT GR.8
4	10427	2	NON-DIRECTIONAL BLADE
5	22804	1	BLADE HOLDER WELDMENT

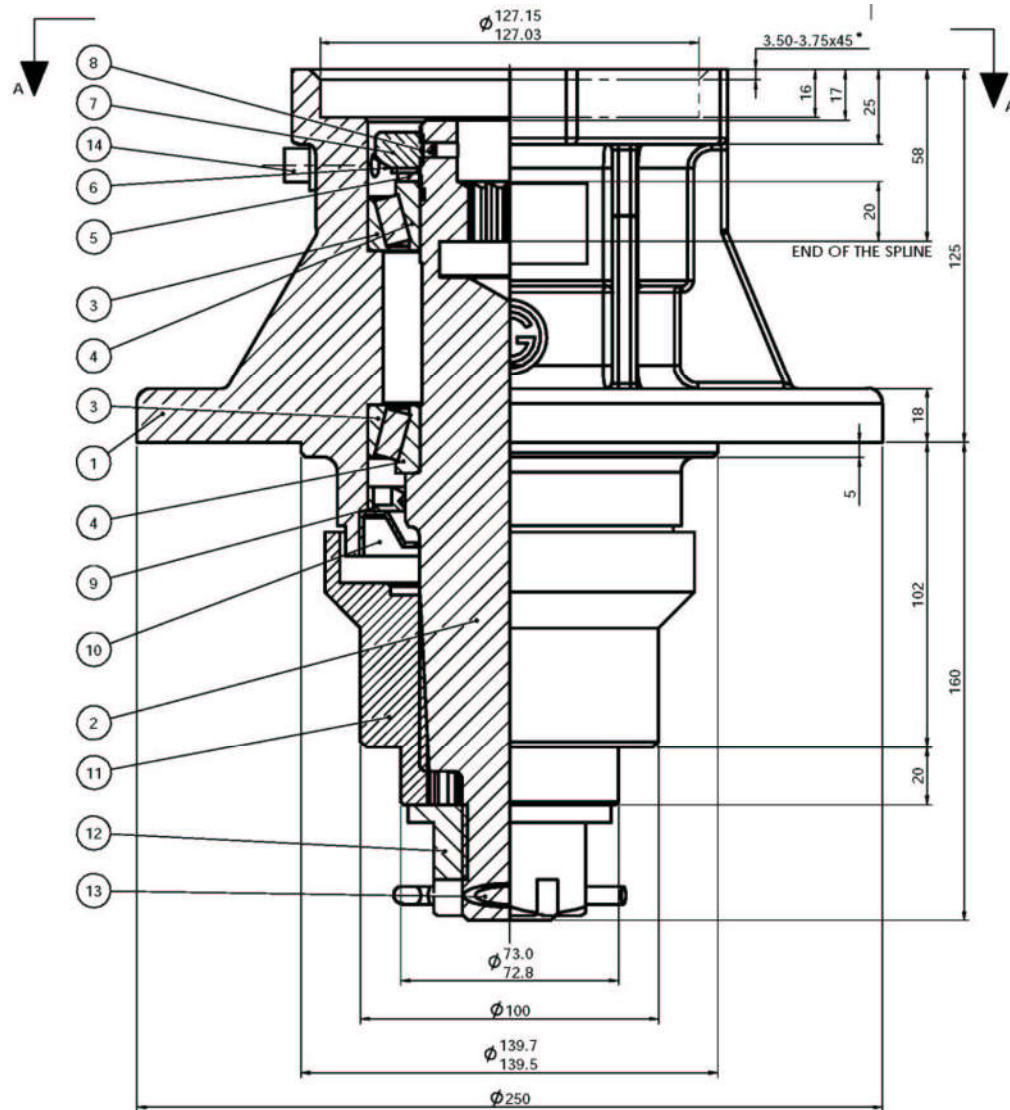
DWG. NO.			REV.	
22803			IR	
REV	CHANGE	BY	DATE	ECN
IR	INITIAL RELEASE	C.K.N.	9/2/10	1372



DRAWN BY			C.K.N.		9/2/10	HARDEE BY EVH MFG. CO. LORIS S.C.	
CHECKED BY							
MATERIAL			R.M.N.			APPLICATION	OLD PART #
MANUFACTURED BY:			HARDEE BY EVH MFG.			LR40148	----
All Dimensions in Inches Unless Otherwise Specified Dimensions in [] are in Millimeters Tolerances Unless Otherwise Specified Fractional Dimensions $\pm 1/16"$ Decimal Dim. to Limits Shown			Angular Dimensions $\pm 1^\circ$ All holes to be $^{+0}_{-1/32}$		DESCRIPTION		
					BLADE HOLDER W/BLADES COMPLETE W/ANTI WRAP HUB		
DO NOT SCALE			A		DWG. NO.		
DWG SIZE					22803		

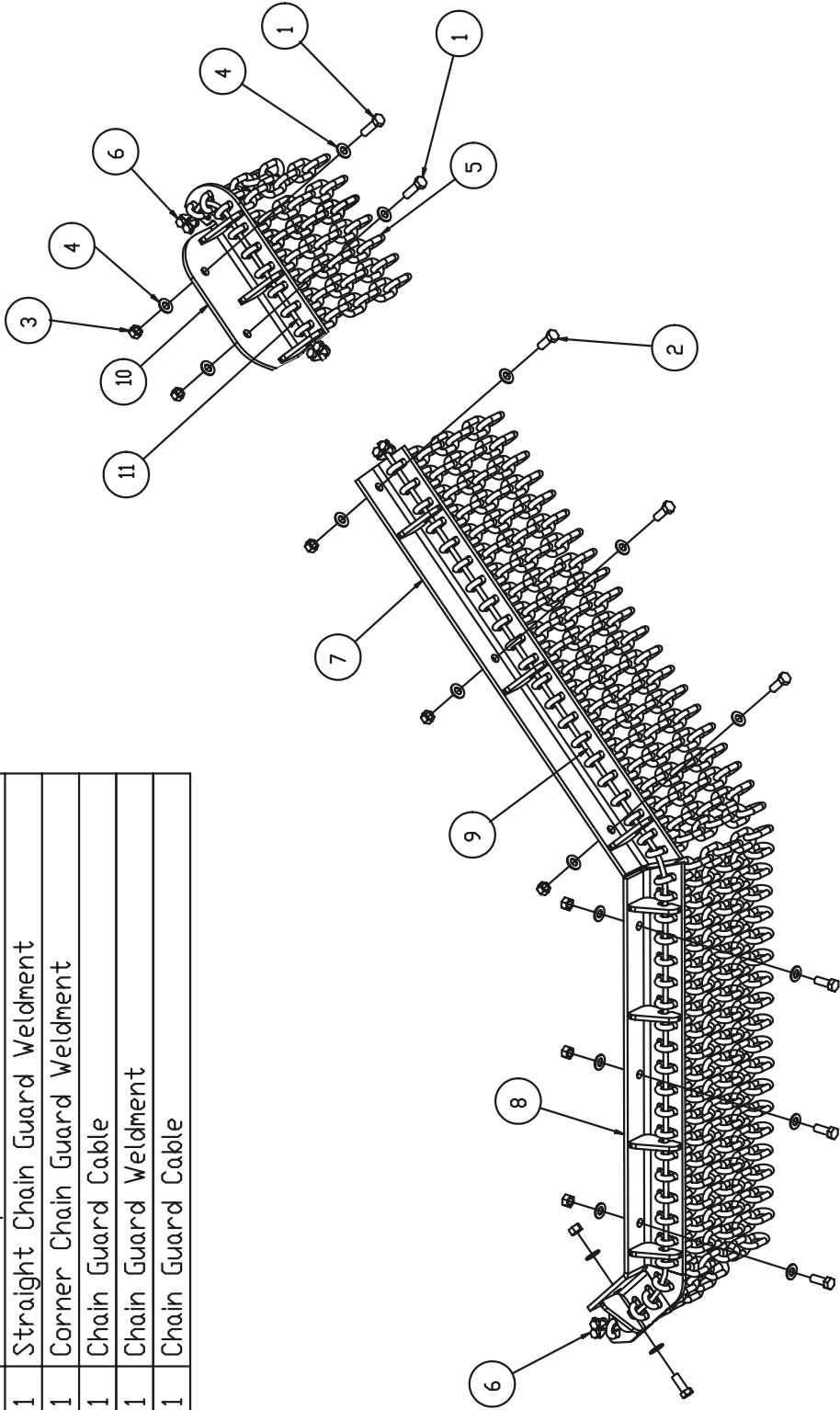
Hydraulic Motor Housing

EVH P/N 16579



<u>Key #</u>	<u>Part No.</u>	<u>Description</u>	<u>Key #</u>	<u>Part No.</u>	<u>Description</u>
1	N/A	Housing	8	16480	Set Screw
2	N/A	Shaft	9	16491	Lip Seal-Output
3	15952	Cup	10	16488	Seal Protector
4	15953	Bearing	11	16580	Blade Hub
5	16492	Washer w/tang	12	15481	Nut, Hex Slotted
6	15965	Lockwasher	13	15968	Cotter Pin
7	15966	Locknut	14	15784	Plug, Pipe

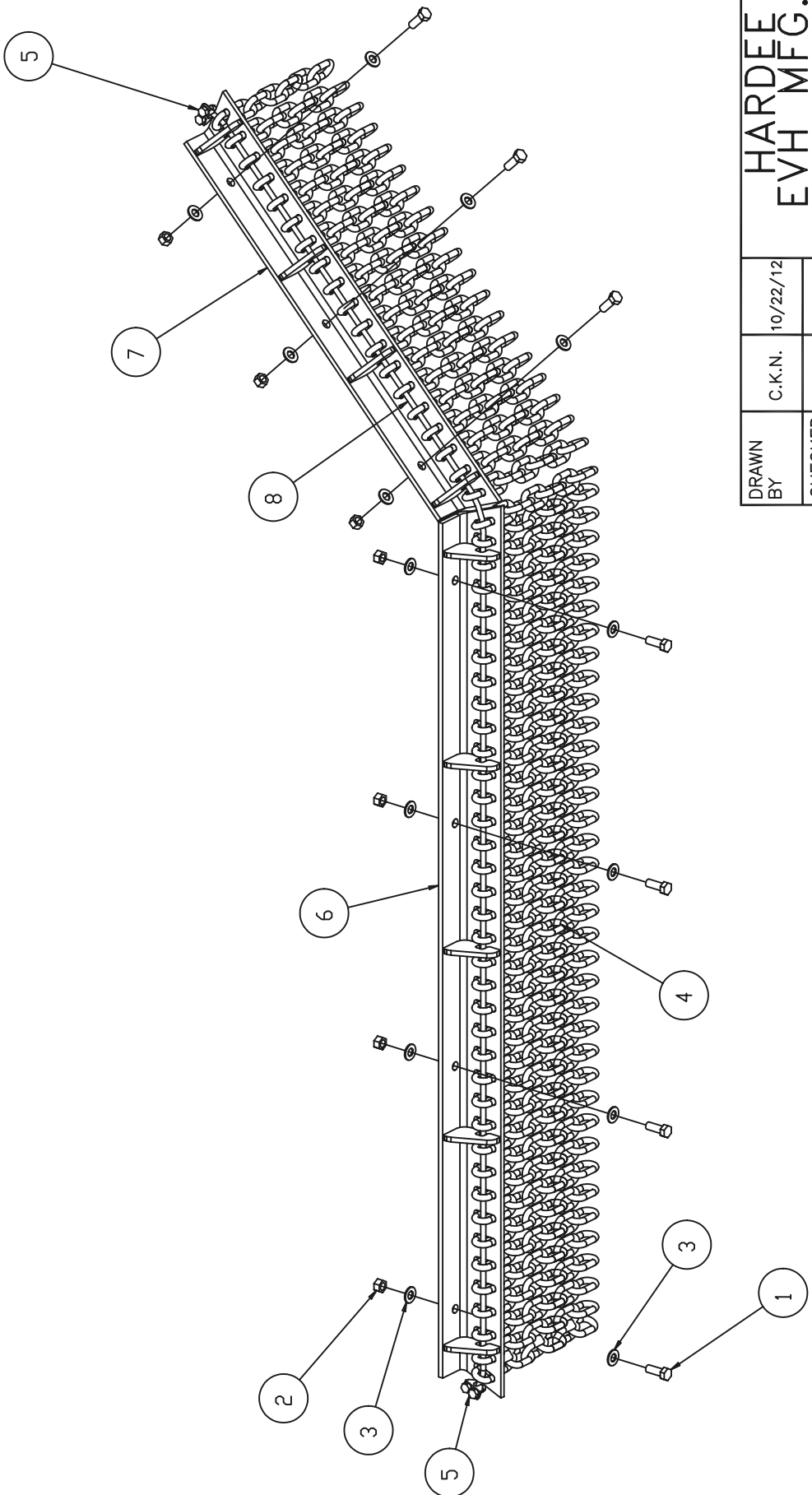
Item	Part Number	Qty.	Description	DWG. NO.	20775	REV. A
1	10029	2	Hex Bolt 3/8 x 1-1/4 gr.5 plated	REV	CHANGE	BY
2	10031	7	Hex Bolt 3/8 x 1 gr.5 plated	IR	INITIAL RELEASE	DATE
3	10175	9	3/8" Locknut (Gr.5 Plated)			6/30/08
4	10202	18	3/8" Flatwasher (Plated)	A	CHAIN SLOTS/HOLES ARE NOW SINGLE CUT	10/8/14
5	10317	54	5 Link Chain			1587
6	10332	4	Cable Clamp			
7	20981	1	Straight Chain Guard Weldment			
8	20983	1	Corner Chain Guard Weldment			
9	20986	1	Chain Guard Cable			
10	20776	1	Chain Guard Weldment			
11	20969	1	Chain Guard Cable			



	MODELED BY			HARDEE	
	DRAWN BY	K.N.	6/30/08	EVH MFG CO.	
	MATERIAL		R.M.N.	LORIS S.C.	
				DESCRIPTION	
All Dimensions in Inches Unless Otherwise Specified Dimensions in [] are in Millimeters			SHEET 1 of 1		
Tolerance Unless Otherwise Specified			LR40148 / LR50148 Front Chain Guard Complete		
Fractional Dimensions $\pm 1/16"$ Decimal Dim. to Limits Shown			DD NOT SCALE	DWG. NO.	20775

Item	Part Number	Qty.	Description	DWG. NO.	REV.
1	10031	7	Hex Bolt 3/8 x 1 gr.5 plated	22696	A
2	10175	7	3/8" Locknut (Gr.5 Plated)		
3	10202	14	3/8" Flatwasher (Plated)		
4	10317	48	5 Link Chain		
5	10332	2	Cable Clamp		
6	22693	1	Straight Chain Guard Weldment		
7	22694	1	Corner Chain Guard Weldment		
8	22695	1	Chain Guard Cable		
CHAIN SLOTS/HOLES ARE NOW SINGLE CUT					
				BY	DATE
INITIAL RELEASE				C.K.N.	10/22/12
A				T.B.B.	10/8/14
					1587

REV	CHANGE	BY	DATE	ECN
-	INITIAL RELEASE		10/22/12	---
A			10/8/14	1587



DRAWN BY		C.K.N.	10/22/12	HARDEE BY	
CHECKED BY				EVH MFG. CO.	
MATERIAL		R.M.N.	N/A	LORIS S.C.	
APPLICATION		OLD PART #	---	Rear Chain Guard - LR40148 / LR50148	
DESCRIPTION				DO NOT SCALE	
Tolerances Unless Otherwise Specified		Angular Dimensions $\pm 1^\circ$		DWG. NO.	
Fractional Dimensions $\pm 1/16"$		All holes to be $+\frac{0}{-1/32}$		22696	
Decimal Dim. to Limits Shown					

Logo Decal Replacement

Logo Decals

If the original decals applied to your mower at the factory become worn or damaged, you can order replacements by referencing the examples below.

You can order new decals from any local Hardee dealer.

To apply the replacement decals:

- Clean the surface to place the new decal.
- Peel the decal away from the paper backing.
- Press firmly onto the clean surface.
- Squeeze out any air pockets using a straight edge.



Oil Tank



Weight Box



11010 – Logo Decal, 4" x 13 1/2"



15273 – Model Number Decal

WWW.EVHMFG.COM

11850 – Web Site Decal

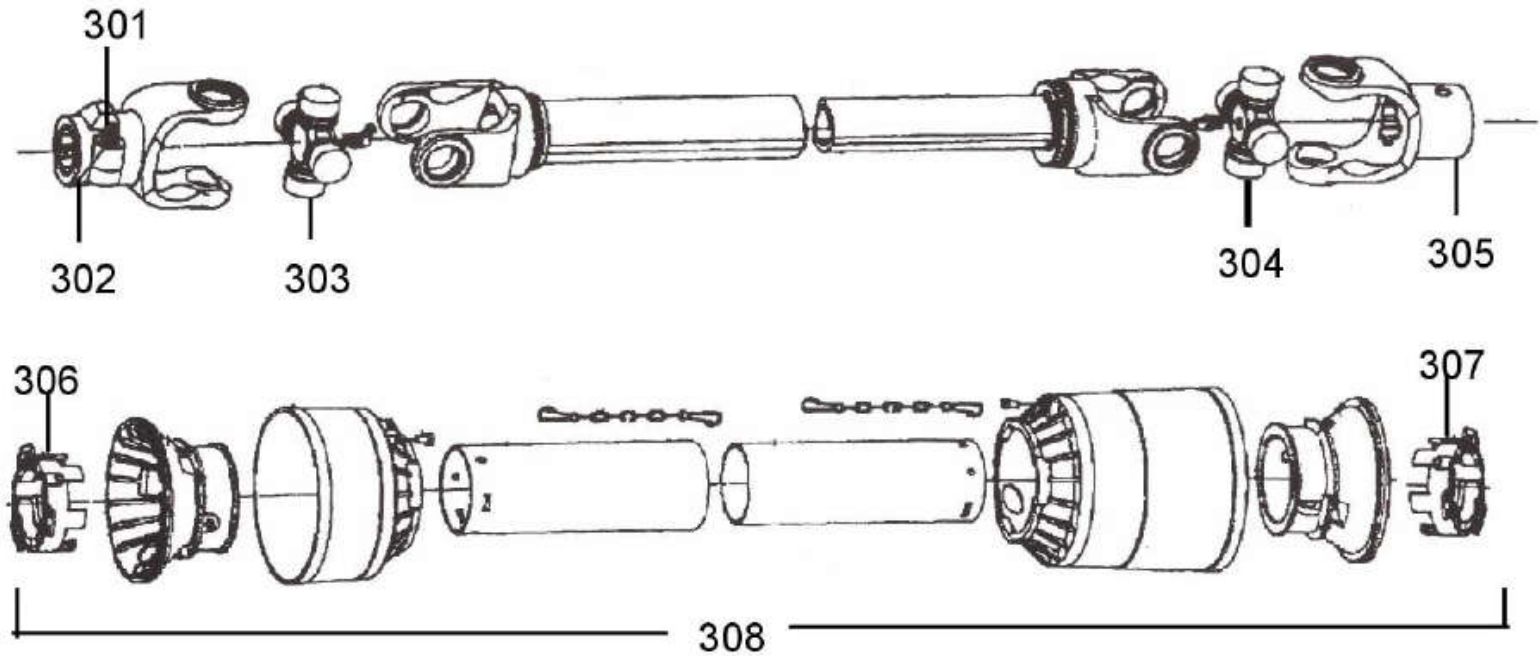


Hose Guard / 1st Stage Boom



11032 – Logo Decal, 2 1/4" x 8 1/8"

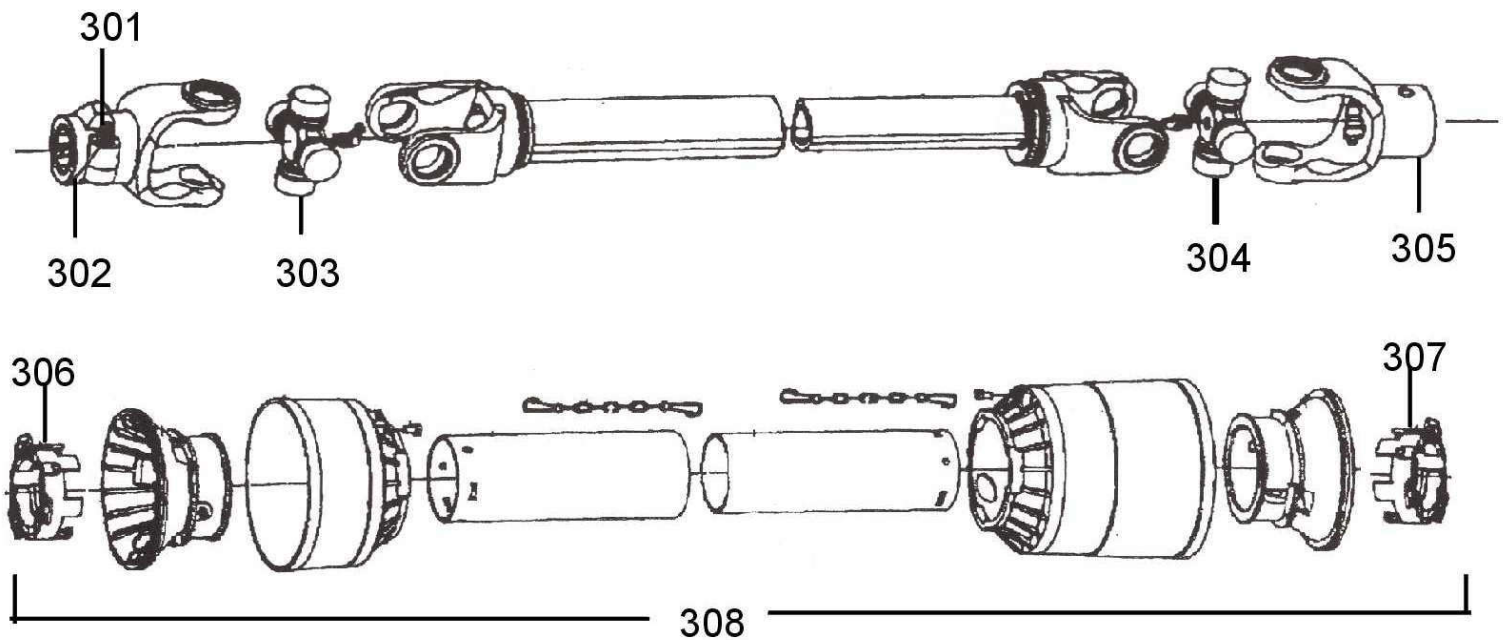
10601 Driveshaft



Key #	Part No.	Description	Key #	Part No.	Description
301	15579	Push Pin complete	305	16521	Yoke, Imp end
302	11436	Yoke, Tractor end	306	15804	Shield bearing
303	11437	Cross Kit	307	15805	Shield Bearing
304	11437	Cross Kit	308	11448	Shield kit complete

11716 Driveshaft

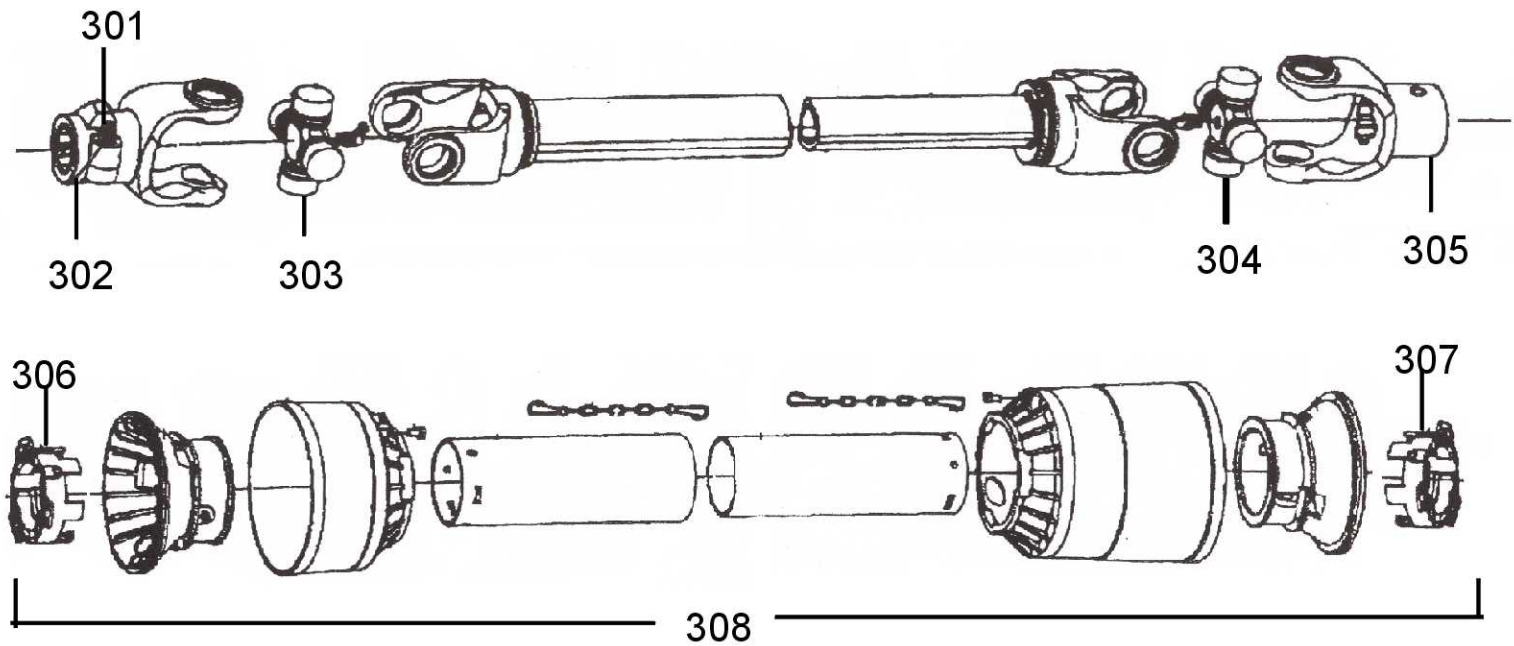
(1 3/4 20spline tractor end & 1 3/8 21spline Imp. end)



Key #	Part No.	Description	Key #	Part No.	Description
301	16857	Push pin complete	305	15807	1 3/8 21 spline yoke w/swell pin cat5
302	11855	1 3/4 20 spline yoke tractor end	306	15809	Shield bearing
303	15629	Cross kit	307	15810	Shield bearing
304	15629	Cross kit	308	15811	Shield kit complete

11717 Driveshaft

(1 3/8 21 spline yoke both ends)



Key #	Part No.	Description	Key #	Part No.	Description
301	15579	Push Pin Complete	305	15807	1 3/8 21 spline yoke w/swell pin cat3
302	10969	1 3/8 21 spline yoke tractor end	306	15804	Shield bearing
303	11200	Cross kit	307	15805	Shield bearing
304	11200	Cross kit	308	11448	Shield kit complete