

BOOMS



PARTS MANUAL FOR 90', 100', 120' AND 132' BOOMS HAGIE MANUFACTURING COMPANY

721 CENTRAL AVENUE WEST
BOX 273
CLARION, IOWA 50525-0273

COVERS BOOM SERIAL NUMBERS:

08-16 493724
03-17, 01-18,
06-18

90' Boom 17001-17500
100' Boom 17001-17500
120' Boom 17001-17500
132' Boom 17001-17500

To obtain the most current parts manual for your machine,
please visit www.hagie.com.

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BOOM IDENTIFICATION

Each Hagie boom is identified by means of a serial number. This serial number denotes the model, the year in which it was built, and the number of the boom. To ensure prompt, efficient service when ordering parts or requesting service repairs from local John Deere dealer, record the serial number in the space provided below.

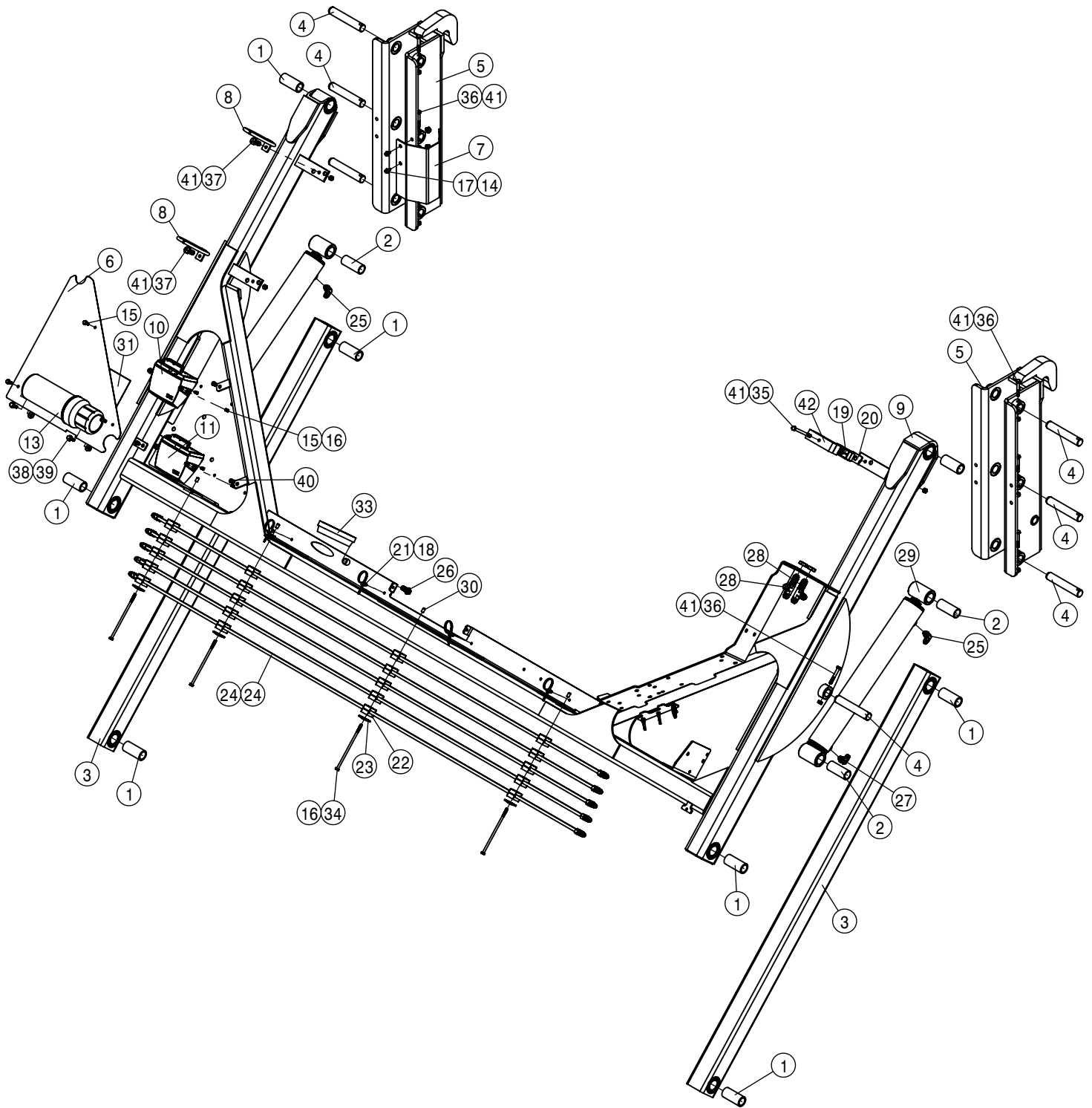
NOTE: Reference to left hand and right hand used throughout this manual refers to the position when seated in the operator's seat facing forward.

This manual is not intended to be a complete guide for machine maintenance and repairs. If you are not properly trained to perform service on this machine, contact your local John Deere dealer for assistance. Improper maintenance or repair may result in property damage, personal injury, or death.

BOOM SERIAL NUMBER

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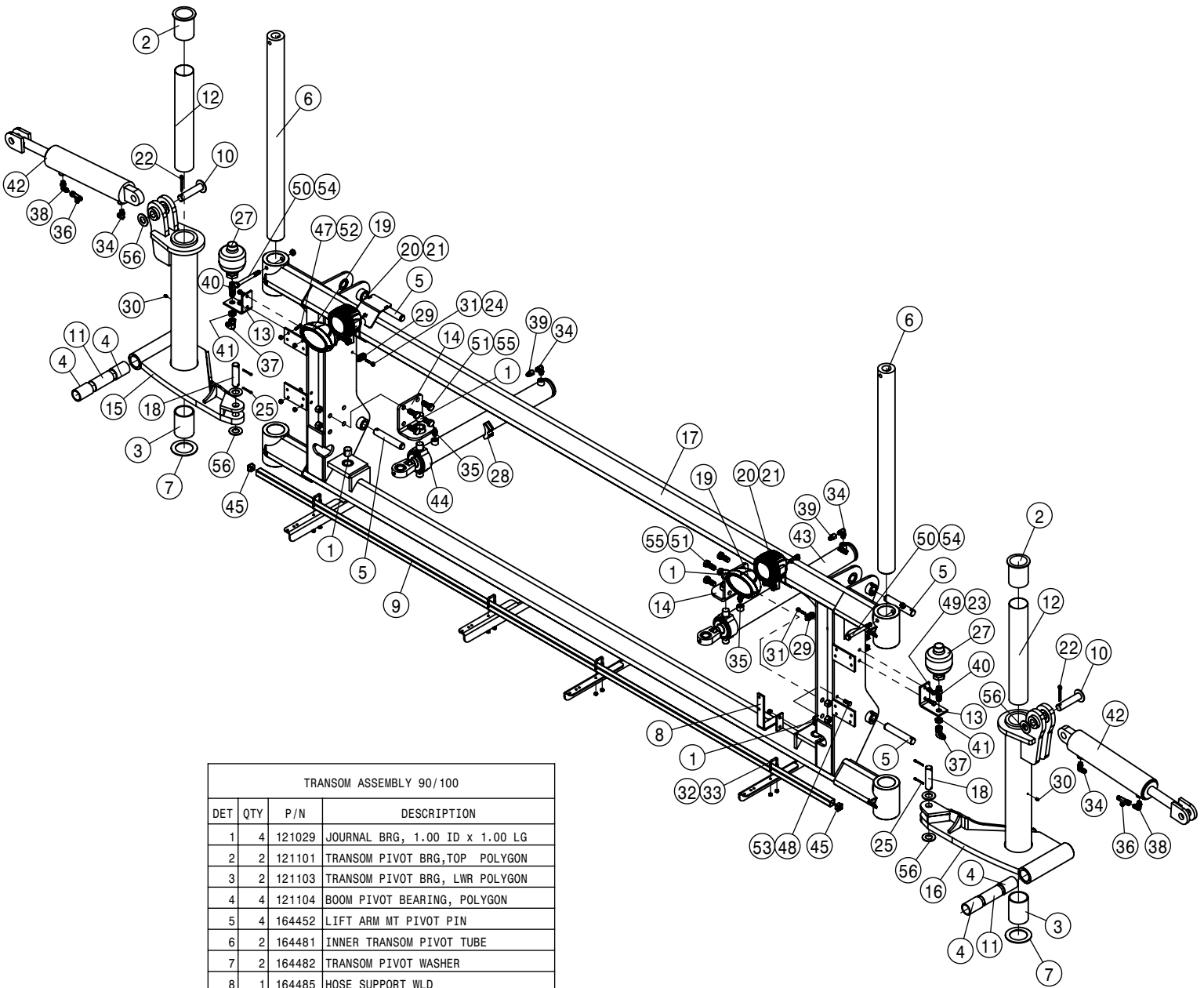
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LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	8	121107	LIFTARM BEARING, POLYGON
2	4	121109	LIFT CYL BRG, 3.13 POLYGON
3	2	164450	LWR LIFTARM WLD
4	8	164452	LIFT ARM MT PIVOT PIN
5	2	164800	QUICK ATTACH PLT WLD STS 04
6	1	165006	UPPER LIFTARM BUSS COVER, STS 05
7	1	165742	RECEPTACLE MT, STS BOOMS '12
8	2	165954	HOSE RING WLD
9	1	165997	UPPER LIFTARM WLD, STS '14
10	1	292086	IQAN-XA2 MODULE->611
11	1	292087	IQAN-XS2 MODULE>611
NS	1	294350	HARNES, 90/100' MAIN BOOM
13	1	344017	MANUAL CANISTER W/NEOPREN SEAL
14	2	470087	3/8UNC HEX SERR FLANGE NUT

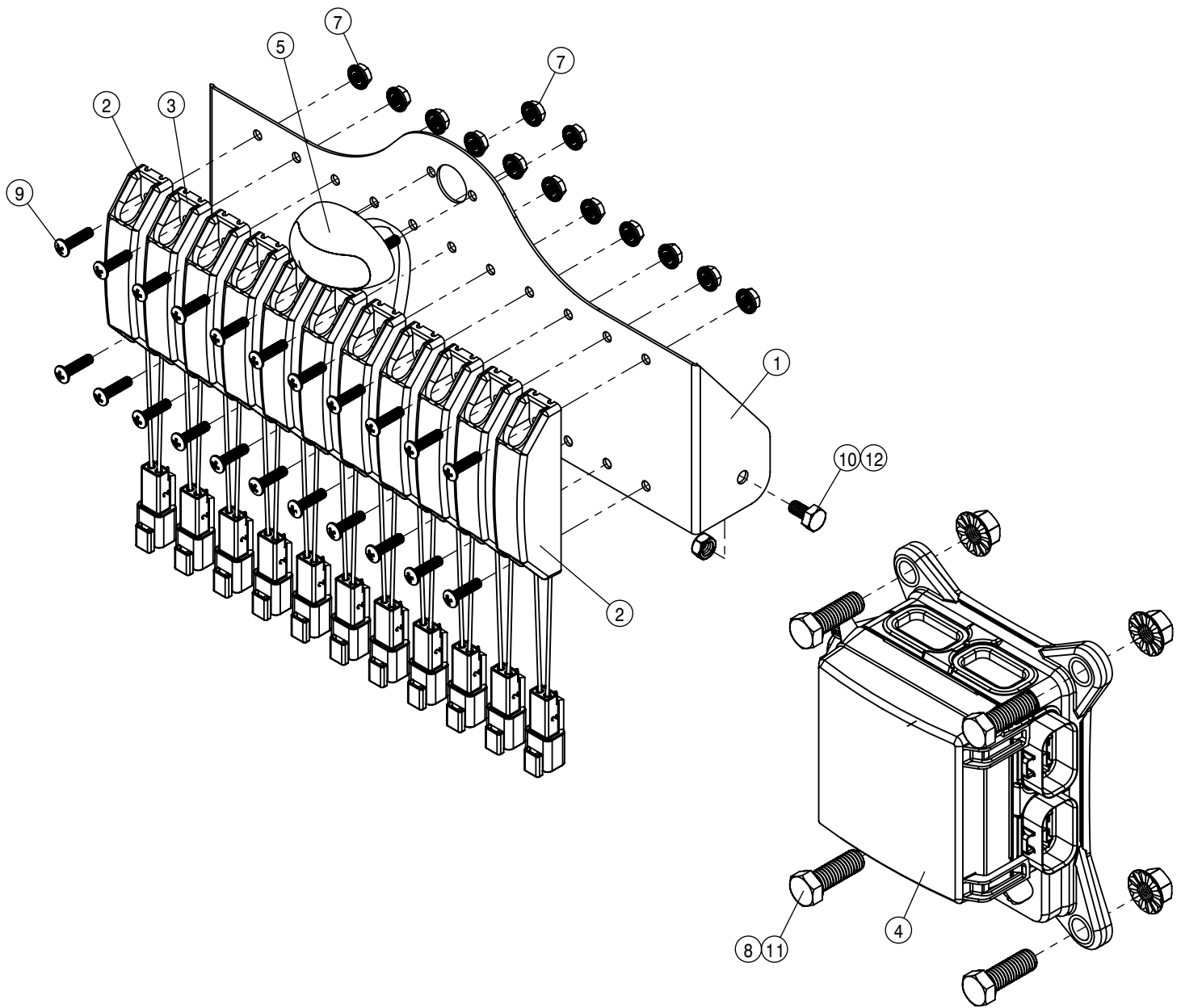
LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
15	7	470118	1/4 UNC X 3/4 SER FLG BOLT
16	8	470121	1/4-20UNC HEX FLG NUT SER MC GR5
17	2	470122	1/4UNC X 1/2 HHSFB GR5 MC
18	7	470154	CABLE TIE, 11.00" BLK NYLON
19	1	470274	TUBE CLAMP BODY, .750-.750
20	1	470281	STACK BOLT SAFETY LOCK PLATE
21	7	470432	PUSH MT BASE FOR PLASTIC TIE
22	20	470473	TUBE CLAMP, HVY DTY .375-.375
23	4	470474	COVER PLATE FOR 470473 CLAMP
24	10	615852	UPPER LIFT ARM TUBE, STS LS
25	2	618119	9/16MJIC-90-9/16MOR LBO
26	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
27	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
28	2	618749	3/4MJIC BLKHD RUN TEE

LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
29	2	621556	2.50 X 18.00 X 1.50 LIFT CYL
30	4	629770	CAPPLUGS CAP, .234 X .500 VINYL
31	1	650393	DECAL, BM MODULE STS10/12, 90' '12
NS	1	650428	DECAL SHEET, 90' BOOM
33	1	690359	PRESSURE GA GLYCERI 100 PSI
34	4	900032	1/4UNC X 6 1/2" HEX BOLT
35	1	900076	5/16UNC X 4" HEX BOLT
36	8	900086	5/16UNC X 2 1/4 HEX BOLT
37	2	900522	1/2UNF X 1 1/4 HHCS GR5 MC
38	2	910042	3/8-16UNC HEX FLG NUT SM MC GR8
39	2	910126	5/16UNC X 1 HHSFB SS
40	3	910127	1/4-20 NUTSERT .027-1.65 STL
41	11	914002	5/16UNC HEX STOVER NUT
42	1	A51729	TUBE CLAMP (PAIR)

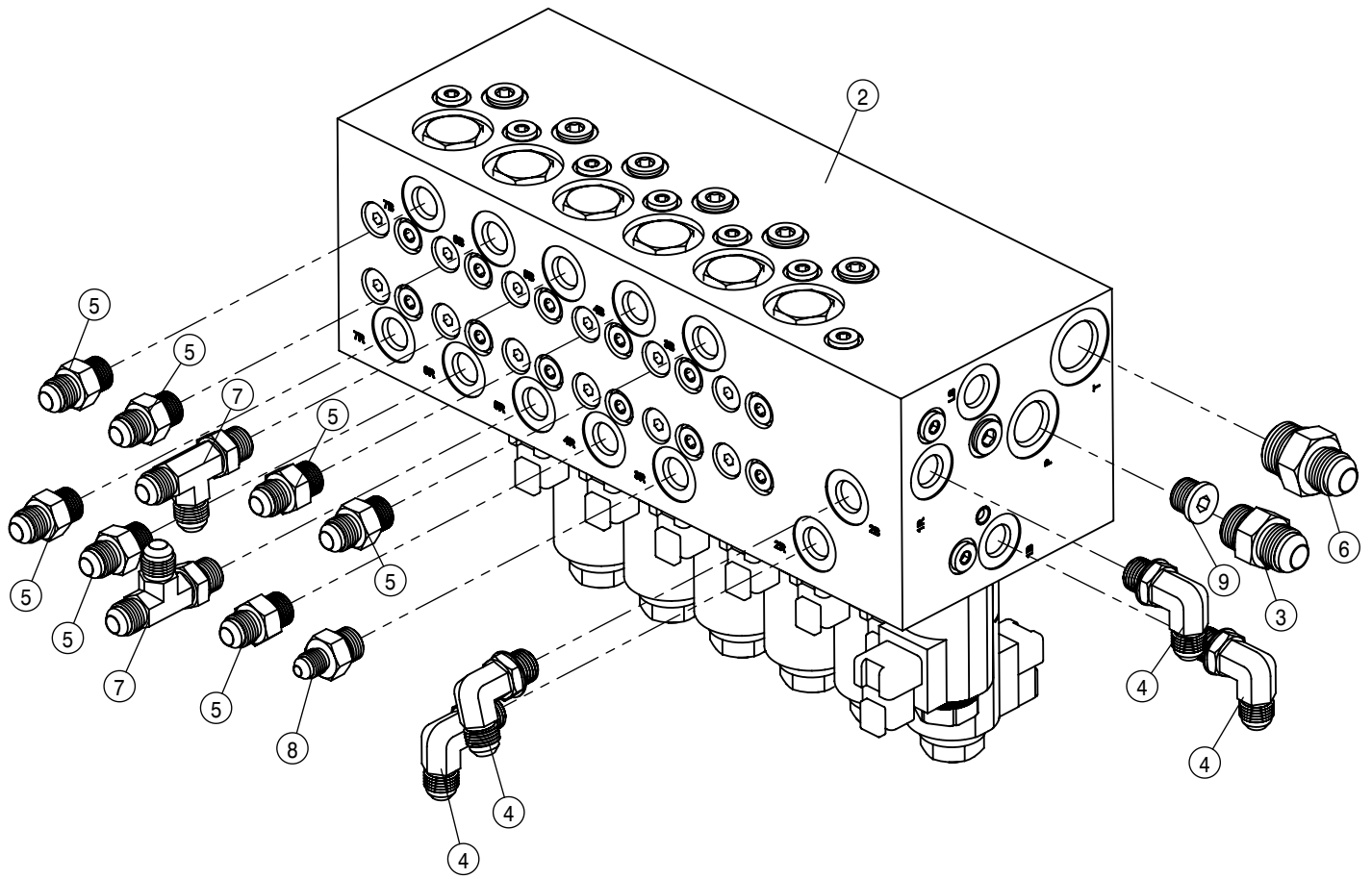


TRANSOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121029	JOURNAL BRG, 1.00 ID x 1.00 LG
2	2	121101	TRANSOM PIVOT BRG,TOP POLYGON
3	2	121103	TRANSOM PIVOT BRG, LWR POLYGON
4	4	121104	BOOM PIVOT BEARING, POLYGON
5	4	164452	LIFT ARM MT PIVOT PIN
6	2	164481	INNER TRANSOM PIVOT TUBE
7	2	164482	TRANSOM PIVOT WASHER
8	1	164485	HOSE SUPPORT WLD
9	1	164491	1.000 SQ X 16GA X 124.00 C/L
10	2	164496	LEVEL CYL PIN WLD, TRANSOM END
11	2	164641	BOOM PIVOT BRG SPACER
12	2	164642	TRANSOM PIVOT BRG SPACER
13	2	165027	ACCUMULATOR MT, STSLS
14	2	165828	FOLD CYL TRUNNION MT WLD 10
15	1	167416	RH TRANSOM PIVOT WLD
16	1	167417	LH TRANSOM PIVOT WLD
17	1	169240	TRANSOM WLD STS 90/100, 2017
18	2	169249	CLEVIS PIN HL .994 DIA X 3.17
19	2	292614	WORK LIGHT, HALOGEN FLOOD '14
20	2	292618	WORKLIGHT-TYRI LED FLOOD
21	2	294299	TYRI JUMPER HARNESS
22	2	470012	5/16 X 2 COTTER PIN
23	4	470087	3/8UNC HEX SERR FLANGE NUT
24	3	470121	1/4-20UNC HEX FLG NUT SER MC GR5
25	4	470162	COTTER PIN 3/16 X 1 1/2 ZN
26	1	470407	1/4UNC X 1 1/4 HHSFB GR5 MC
27	2	470444	ACCUM, DIAPHRAGM, 30CI 1508 PSI
28	2	470887	Cylinder Saddle Clamp
29	3	470888	TWIN #4 CLAMP
30	2	471005	GREASE ZERK, 1/4-28 X 1/2
31	2	473837	1/4UNC X 1 1/2 HHSFB SS
32	8	473842	1/4UNC LOCK NUT,CNTR POINT
33	4	473979	1/4UNC-1 1/8ID-1 1/2U-BOLTSQSS
34	4	618119	9/16MJIC-90-9/16MOR LBO
35	2	618468	7/16MJIC-9/16MOR ADPTR

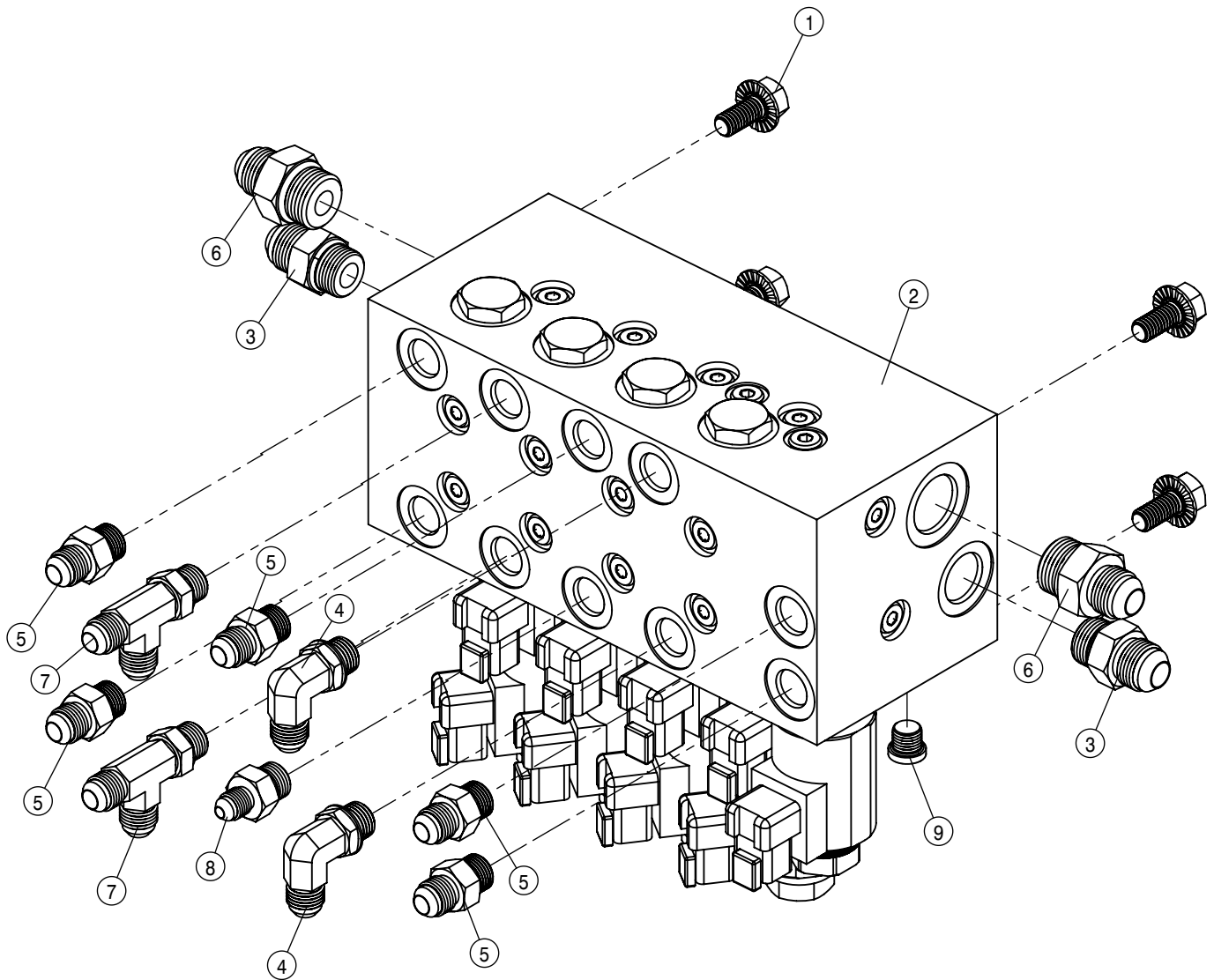
TRANSOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
36	2	618486	9/16FJIC SW RUN TEE-9/16MJIC
37	2	618609	3/4MJIC-90-3/4FJIC SWIV LBO
38	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
39	2	618733	9/16JIC .042 ORIFICE ADPTR
40	2	618743	3/4MOR-3/4MJIC BLKHD, .040 ORF
41	2	618744	3/4 THD BLKHD LOCK NUT
42	2	621558	3.00 X 11.00 X 1.38 LEVEL CYL.
43	1	621670	HYD CYL 2.50 X 21.00 X 1.375
44	1	621670	HYD CYL 2.50 X 21.00 X 1.375
45	2	629727	FINISH PLUG 1" SQ 16 GA
NS	1	650428	DECAL SHEET, 90' BOOM
47	4	900065	5/16UNC X 1" HEX BOLT
48	2	900129	3/8UNC X 1" HEX BOLT
49	4	900130	3/8UNC X 1 1/4 HEX BOLT
50	2	900284	1/2UNC X 4 3/4 HEX BOLT
51	8	900333	5/8UNC X 1 1/2 HEX BOLT
52	4	914002	5/16UNC HEX STOVER NUT
53	2	914004	3/8UNC HEX STOVER NUT
54	2	914008	1/2 UNC HEX STOVER NUT
55	8	914010	5/8UNC HEX STOVER NUT
56	6	920008	SAE FLAT WASHER 1 MC



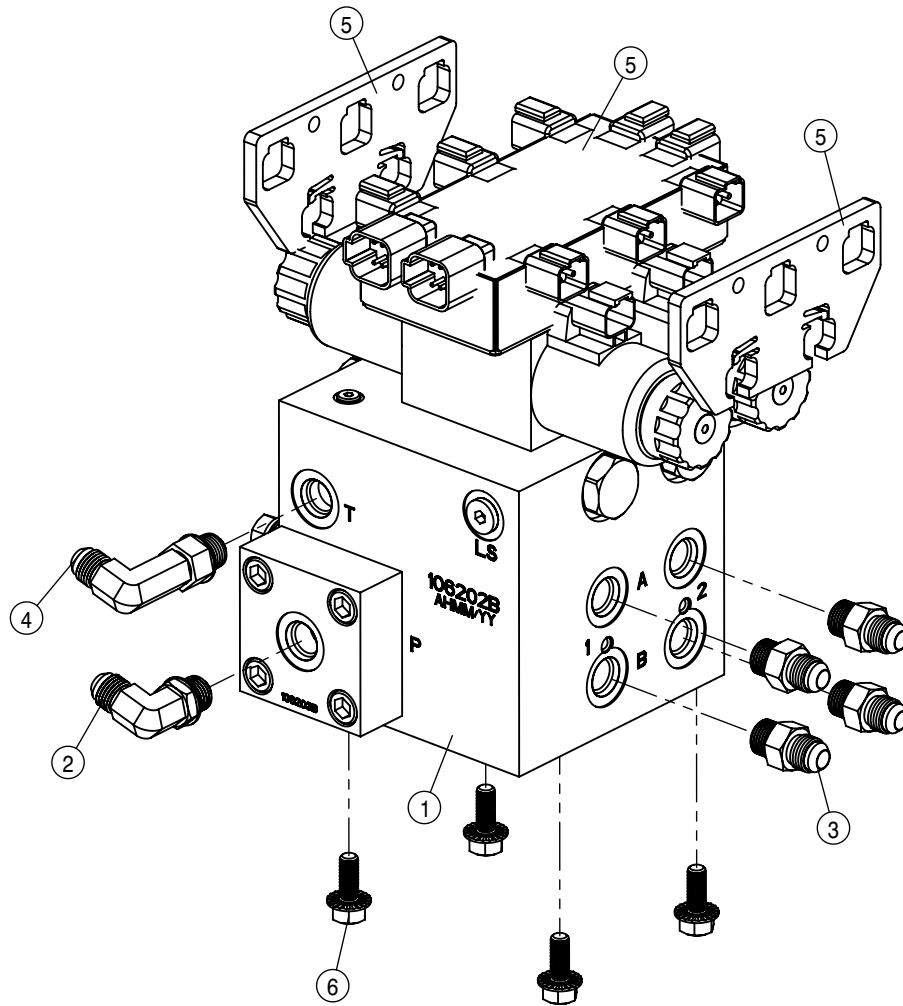
SECTION INDICATOR LIGHTS 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	165994	BOOM INDICATOR LGT MT
2	2	291325	AMBER LAMP,4" DT DEUTSCH
3	9	291326	RED LAMP,4" DT DEUTSCH
4	1	292708	MVEC
5	1	293817	MASTER SPRAY LIGHT, STS 05
NS	1	294284	SPRAY SECTION LIGHT HARNESS
7	24	470175	10-32 SERR FLANGE NUT
8	4	470325	7/16 UNC SERR FLG HEX NUT
9	24	472235	10-32 X 3/4 PHIL HD MACH SCR
10	2	900000	1/4UNC X 1/2 HEX BOLT
11	4	900196	7/16UNC X 1 1/4 HEX BOLT
12	2	910000	1/4UNC HEX NUT



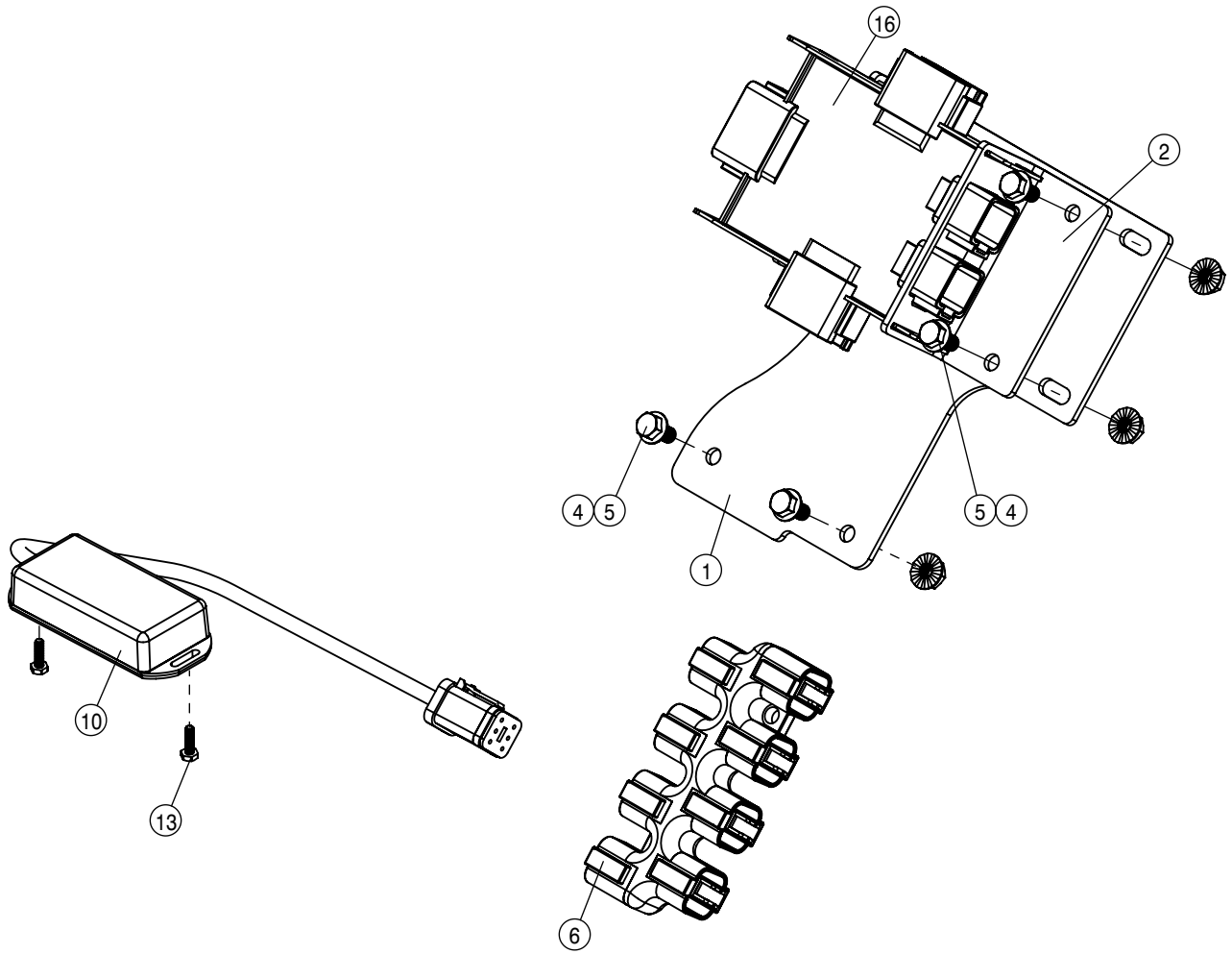
BOOM MANIFOLD ASSEMBLY-NON NORAC 90/100			
DET	QTY	P/N	DESCRIPTION
NS	1	294352	90/100 DIODE SUPPRESSION HARNES
2	1	606272	VALVE, LOAD SENSE BOOM SAUER
3	1	611125	3/4MJIC-3/4MOR ADPTR
4	4	618119	9/16MJIC-90-9/16MOR LBO
5	7	618126	9/16MJIC-9/16MOR ADPTR
6	1	618327	3/4MJIC-7/8MOR ADPTR
7	2	618444	9/16MOR RUN TEE-9/16MJIC
8	1	618468	7/16MJIC-9/16MOR ADPTR
9	1	618754	9/16 MOR PLUG, HEX SOCKET



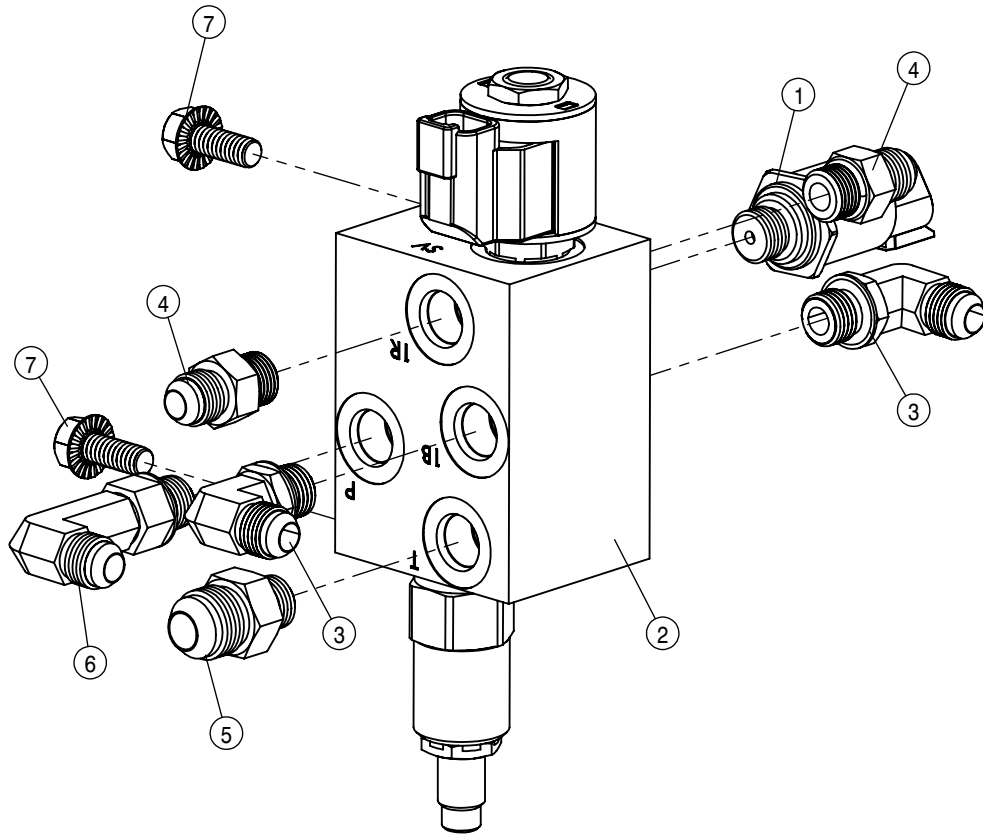
BOOM MANIFOLD ASSEMBLY-NORAC 90/100				
DET	QTY	P/N	DESCRIPTION	
1	4	470409	3/8UNC X 3/4 HHSFB GR5 MC	
2	1	606529	VALVE, LIFT-FOLD, 4-SECTION	
3	2	611125	3/4MJC-3/4MOR ADPTR	
4	2	618119	9/16MJC-90-9/16MOR LBO	
5	5	618126	9/16MJC-9/16MOR ADPTR	
6	2	618327	3/4MJC-7/8MOR ADPTR	
7	2	618444	9/16MOR RUN TEE-9/16MJC	
8	1	618468	7/16MJC-9/16MOR ADPTR	
9	1	618753	7/16 MOR PLUG, HEX SOCKET	



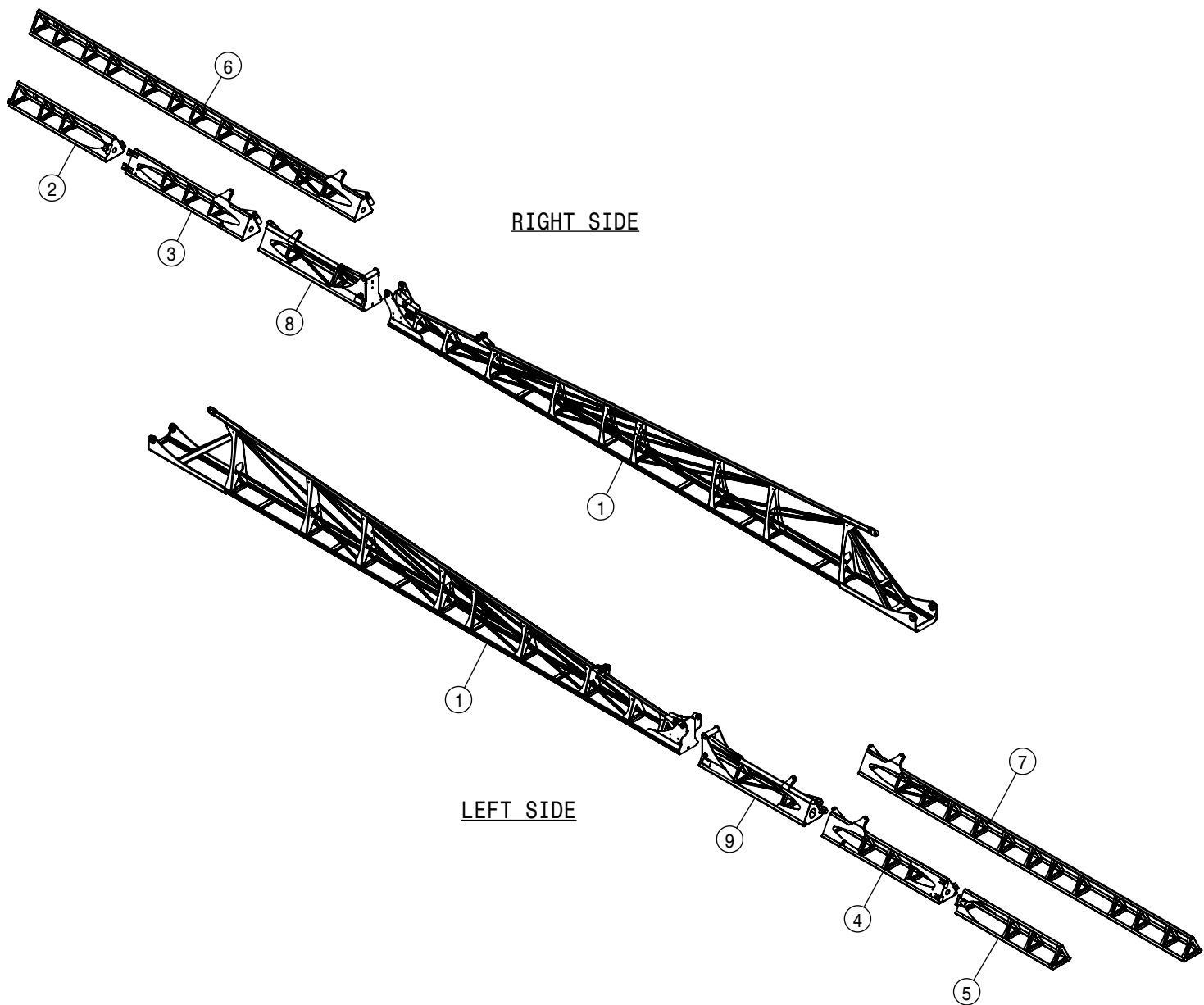
NORAC VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	606455	NORAC HYD VALVE (44963D)
2	1	618119	9/16MJIC-90-9/16MOR LBO
3	4	618126	9/16MJIC-9/16MOR ADPTR
4	1	618440	9/16MJIC-90-9/16MOR EX LG LBO
5	1	693133	NORAC MODULE, UC5 VALVE
6	4	900486	5/16UNC X 3/4 HHSFB SS



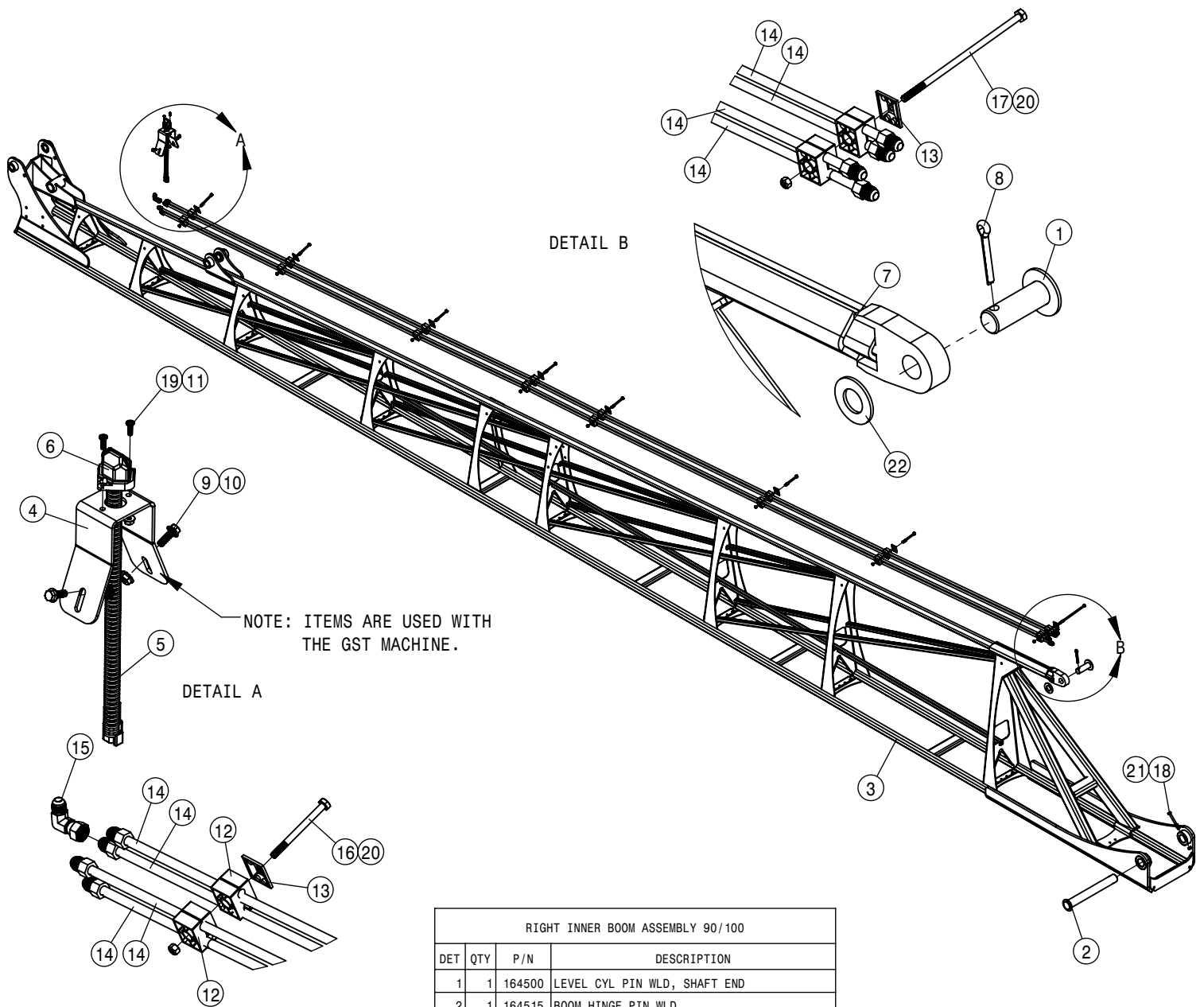
NORAC MODULE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
	1	167178	UC5 MTG BRKT
	1	167179	CLAMP UC5 BRKT
NS	1	294251	HARNESS-NORAC INPUT INTERFACE
	4	470121	1/4 UNC SERR FLG LOCK NUT
	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
	1	693131	NORAC UC5 NETWORK CPLR, 8-WAY
NS	1	693135	NORAC CABLE, STS BM DISCNT, 150"
NS	2	693145	NORAC CABLE, UC5 NETWORK, 10M
NS	1	693161	NORAC CABLE, UC5 NETWORK, 5M
	1	693165	NORAC UC5 ROLL SENSOR
NS	2	693741	CABLE UC5 NETWORK 14 AWG 1M
NS	1	693742	INSTALLATION MANUAL UC5, STS
	2	693743	MACH HEX SCREW SS 6-32X1/2 IN
NS	1	693749	UC5 CABLE, VALVE
NS	1	693750	UC5 INTERFACE CABLE
	1	693751	UC5 INPUT PASS THRU MODULE
NS	5	693800	UC5 NETWORK 6PIN PLUG
NS	1	693802	CABLE, UC5 VALVE LOCK
NS	2	693806	CABLE,UC5 12 AWG 7M
	1	693752	UC5 NETWORK 2 PIN PLUG



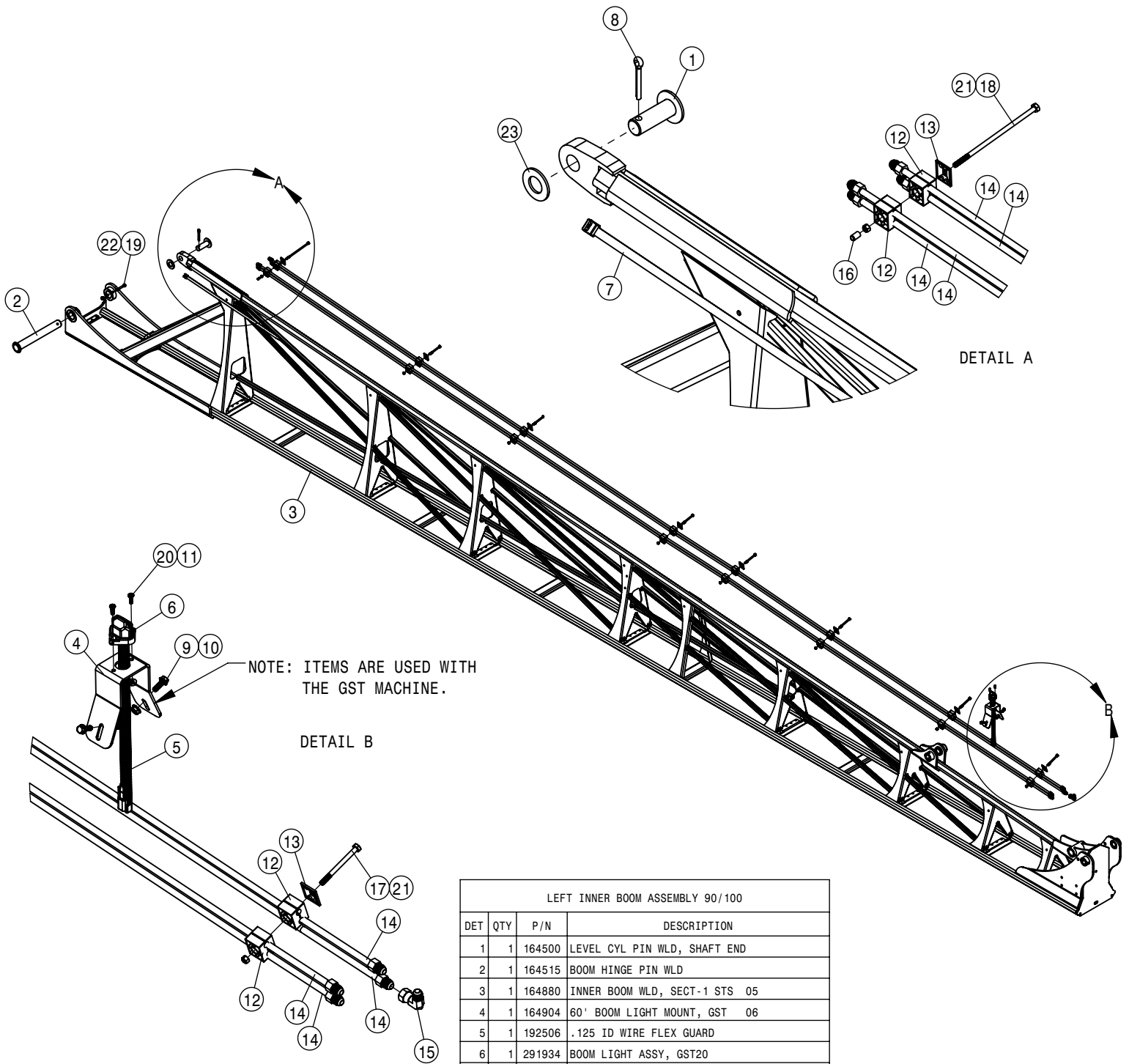
BREAKAWAY VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	606347	PRESSURE TRANSDUCER,7500PSI
2	1	607119	90/100 breakaway block
3	2	618119	9/16MJIC-90-9/16MOR LBO
4	2	618126	9/16MJIC-9/16MOR ADPTR
5	1	618360	3/4MJIC-9/16MOR ADPTR
6	1	618440	9/16MJIC-90-9/16MOR EX LG LBO
7	2	900064N	5/16UNC X 3/4\"



BOOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	164880	INNER BOOM WLD, SECT-1 STS 05
2	1	164970	RH 90' BOOM TIP WLD, SECT-4
3	1	164971	RH BREAKAWAY BOOM WLD, SECT-3
4	1	164973	LH BREAKAWAY BOOM WLD, SECT-3
5	1	164975	LH 90' BOOM TIP WLD, SECT-4
6	1	165815	RH BRKWAY BM WLD,100'SECT-3'10
7	1	165816	LH BRKWAY BM WLD,100'SECT-3'10
8	1	165999	RH FLDOVR BM, SECT-2 W/DECAL
9	1	166000	LH FLDOVR BM, SECT-2 W/DECAL

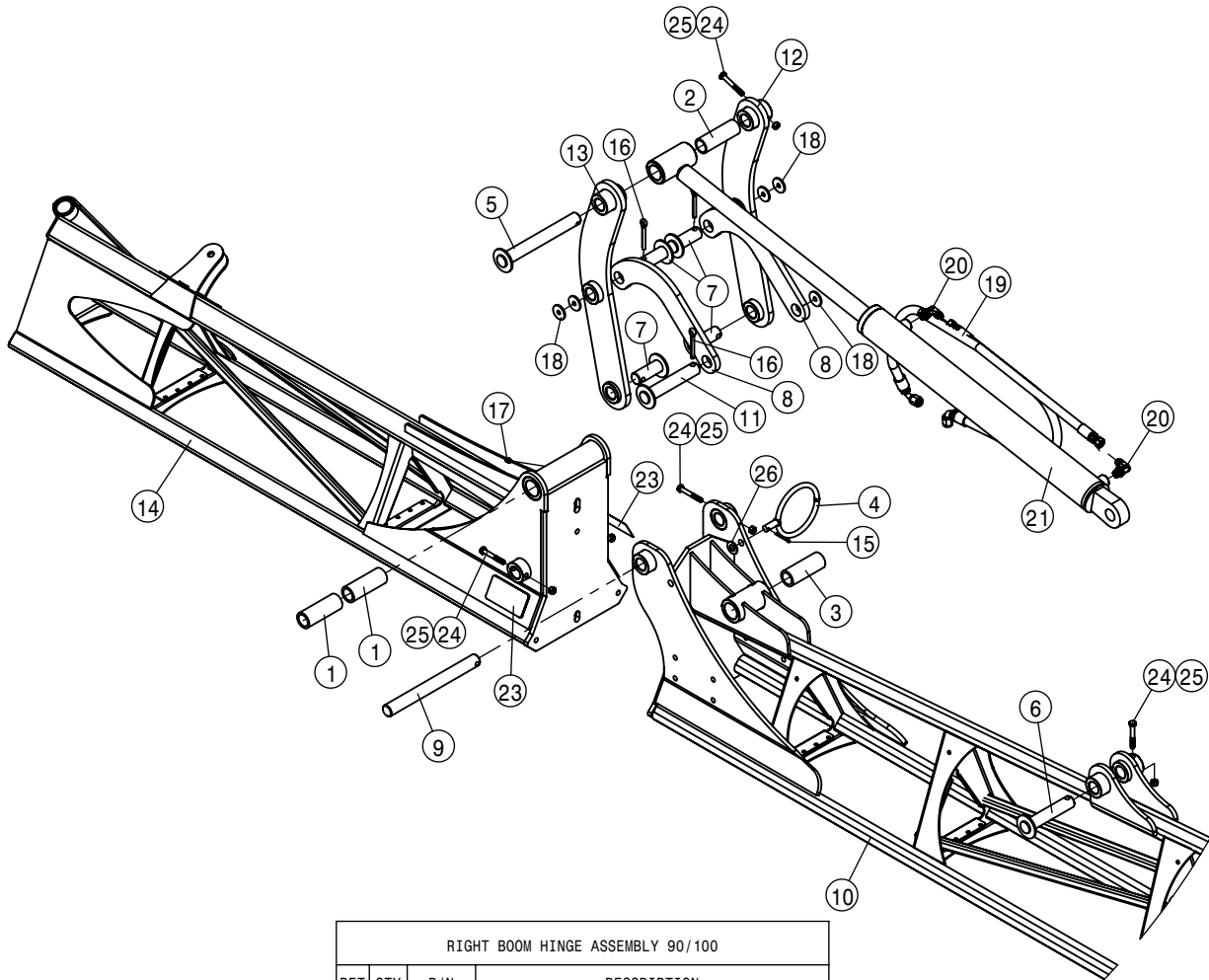


RIGHT INNER BOOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	164500	LEVEL CYL PIN WLD, SHAFT END
2	1	164515	BOOM HINGE PIN WLD
3	1	164880	INNER BOOM WLD, SECT-1 STS 05
4	1	164904	60' BOOM LIGHT MOUNT, GST 06
5	1	192506	.125 ID WIRE FLEX GUARD
6	1	291934	BOOM LIGHT ASSY, GST20
7	1	470000	.50 X 28" CABLE TIE - UV BLACK NYLON
8	1	470012	5/16 X 2 COTTER PIN
9	2	470118	1/4 UNC X 3/4 SER FLG BOLT
10	2	470121	1/4 UNC SERR FLG LOCK NUT
11	2	470463	8-32 SERR FLANGE NUT
12	16	470473	TUBE CLAMP, HVY DTY .375-.375
13	8	470474	COVER PLATE FOR 470473 CLAMP
14	4	615851	HYD TUBE, MAIN BOOM, STS LS
15	1	618618	9/16MJIC-90-9/16FJIC SWIV LBO
16	7	900010	1/4UNC X 3" HEX BOLT
17	1	900032	1/4UNC X 6 1/2" HEX BOLT
18	1	900073	5/16UNC X 3 1/4 HEX BOLT
19	2	903844	8-32 X 1/2 PHIL PANHD MACH SCR
20	8	914000	1/4UNC HEX STOVER NUT
21	1	914002	5/16UNC HEX STOVER NUT
22	1	920008	SAE FLAT WASHER 1 MC

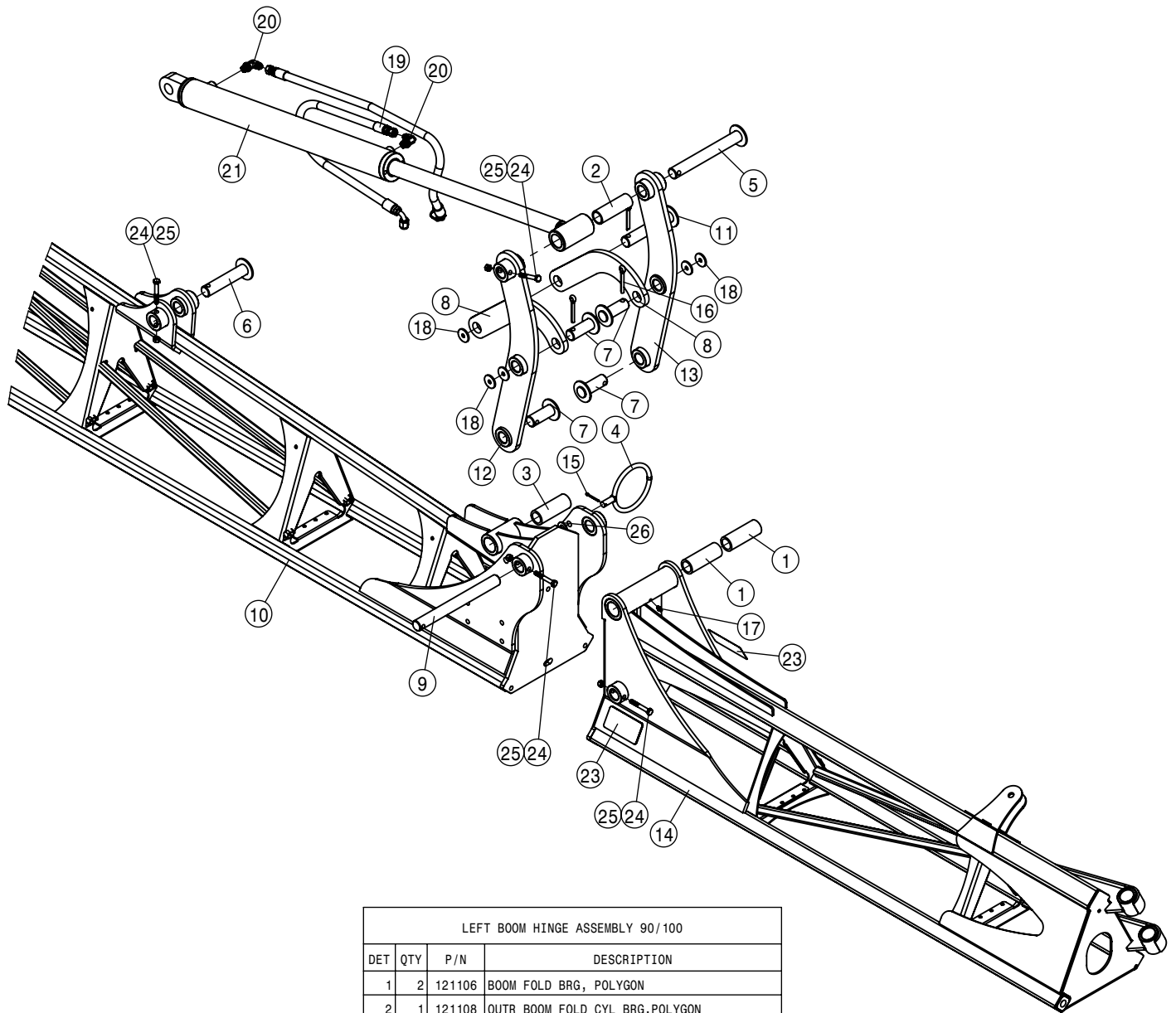


NOTE: ITEMS ARE USED WITH THE GST MACHINE.

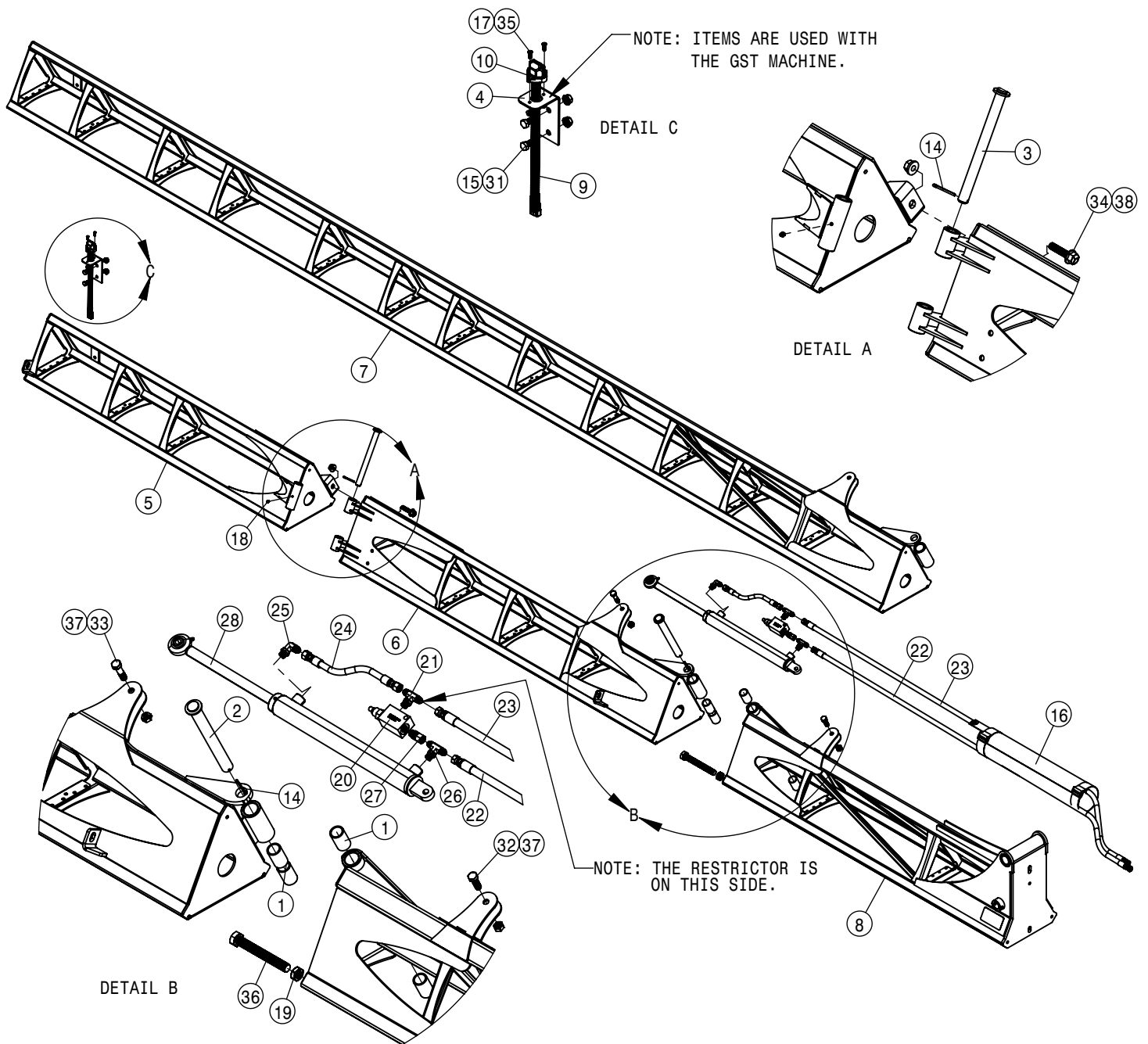
LEFT INNER BOOM ASSEMBLY 90/100				
DET	QTY	P/N	DESCRIPTION	
1	1	164500	LEVEL CYL PIN WLD, SHAFT END	
2	1	164515	BOOM HINGE PIN WLD	
3	1	164880	INNER BOOM WLD, SECT-1 STS 05	
4	1	164904	60' BOOM LIGHT MOUNT, GST 06	
5	1	192506	.125 ID WIRE FLEX GUARD	
6	1	291934	BOOM LIGHT ASSY, GST20	
7	1	470000	.50 X 28" CABLE TIE - UV BLACK NYLON	
8	1	470012	5/16 X 2 COTTER PIN	
9	2	470118	1/4 UNC X 3/4 SER FLG BOLT	
10	2	470121	1/4 UNC SERR FLG LOCK NUT	
11	2	470463	8-32 SERR FLANGE NUT	
12	16	470473	TUBE CLAMP, HVY DTY .375-.375	
13	8	470474	COVER PLATE FOR 470473 CLAMP	
14	4	615851	HYD TUBE, MAIN BOOM, STS LS	
15	1	618618	9/16MJIC-90-9/16FJIC SWIV LBO	
16	1	629770	CAPPLUGS CAP,.234 X .500 VINYL	
17	7	900010	1/4UNC X 3" HEX BOLT	
18	1	900032	1/4UNC X 6 1/2" HEX BOLT	
19	1	900073	5/16UNC X 3 1/4 HEX BOLT	
20	2	903844	8-32 X 1/2 PHIL PANHD MACH SCR	
21	8	914000	1/4UNC HEX STOVER NUT	
22	1	914002	5/16UNC HEX STOVER NUT	
23	1	920008	SAE FLAT WASHER 1 MC	



RIGHT BOOM HINGE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	121106	BOOM FOLD BRG, POLYGON
2	1	121108	OUTR BOOM FOLD CYL BRG,POLYGON
3	1	121121	BEARING, 1.006-1.368-3.6PLYGON
4	1	164517	HOSE SUPPORT RING WLD
5	1	164520	BOOM CYL PIVOT PIN WLD
6	1	164522	BOOM FOLD CYL PIN WLD
7	4	164524	BOOMERANG CNTR PIVOT PIN WLD
8	2	164643	XK402 TOP ARM(LEFT) 10.35 CNTR
9	1	164678	BOOM FOLD PIVOT PIN, STS 05
10	1	164880	INNER BOOM WLD, SECT-1 STS 05
11	1	165834	BOOM FOLD CYL PIN WLD
12	1	165836	RH FOLD-OVER BOOMERANG WLD
13	1	165837	LH FOLD-OVER BOOMERANG WLD
14	1	165999	RH FLDOVR BM, SECT-2 W/DECAL
15	1	390984	1/8 X 1 1/4 COTTER PIN
16	3	470012	5/16 X 2 COTTER PIN
17	1	471005	GREASE ZERK, 1/4-28 X 1/2
18	5	483024	FENDER WASHER 5/16 MC
19	2	616356	06-451TC-06FJX-06FJX90-27 H/A
20	2	618688	9/16MOR-90-9/16MJ .025 CHK VLV
21	1	621562	OUTR FOLD CYL,2.25 X 21.00 STS
NS	1	621563	REPAIR KIT,HYD CYL 621562
23	2	650204	DECAL, WARNING, CRUSH HAZARD FP
24	5	900086	5/16UNC X 2 1/4 HEX BOLT
25	5	914002	5/16UNC HEX STOVER NUT
26	1	920004	1/2 SAE FLAT WASHER

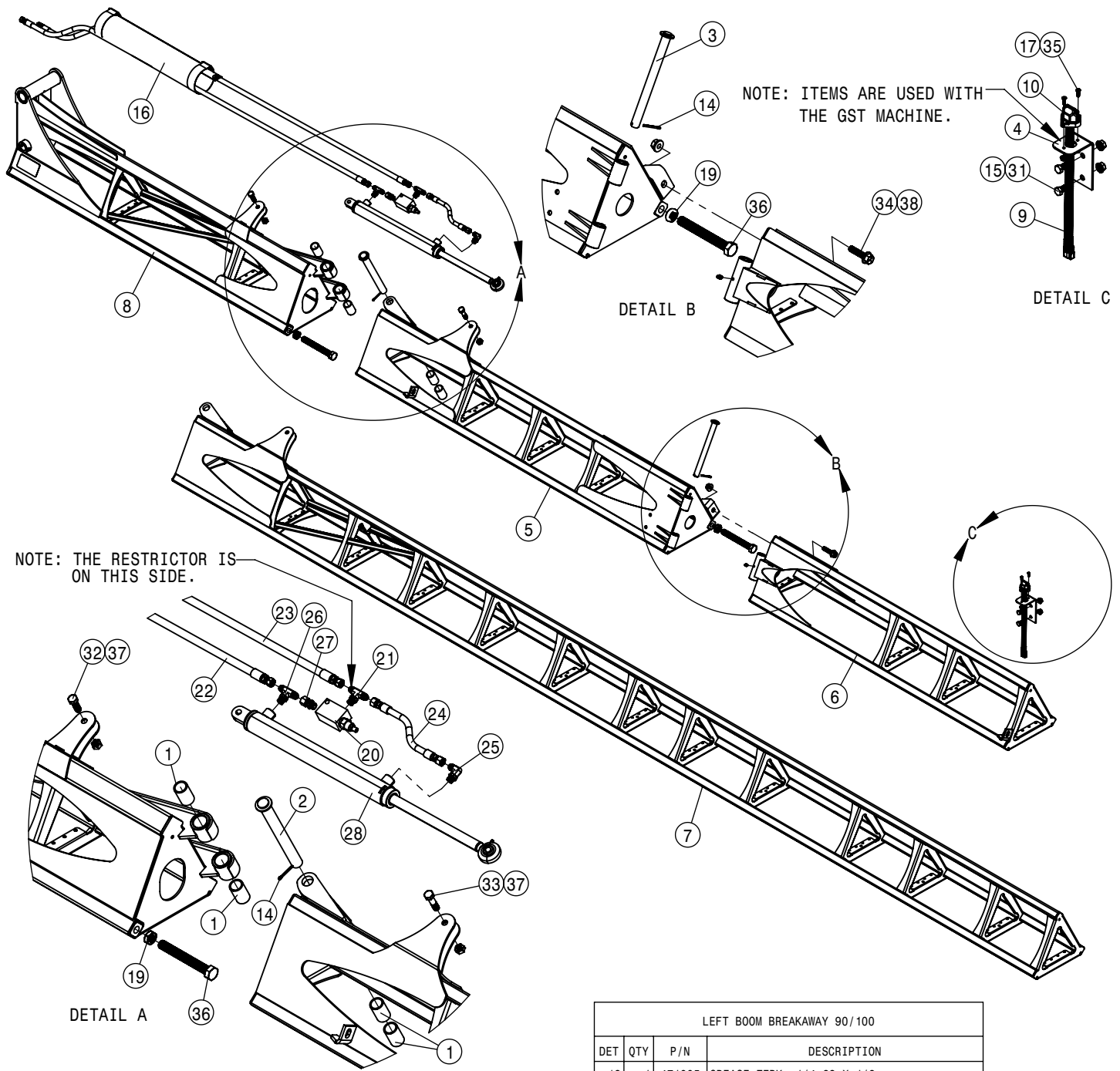


LEFT BOOM HINGE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	121106	BOOM FOLD BRG, POLYGON
2	1	121108	OUTR BOOM FOLD CYL BRG,POLYGON
3	1	121121	BEARING, 1.006-1.368-3.6PLYGON
4	1	164517	HOSE SUPPORT RING WLD
5	1	164520	BOOM CYL PIVOT PIN WLD
6	1	164522	BOOM FOLD CYL PIN WLD
7	4	164524	BOOMERANG CNTR PIVOT PIN WLD
8	2	164643	XK402 TOP ARM(LEFT) 10.35 CNTR
9	1	164678	BOOM FOLD PIVOT PIN, STS 05
10	1	164880	INNER BOOM WLD, SECT-1 STS 05
11	1	165834	BOOM FOLD CYL PIN WLD
12	1	165836	RH FOLD-OVER BOOMERANG WLD
13	1	165837	LH FOLD-OVER BOOMERANG WLD
14	1	166000	LH FLDOVR BM, SECT-2 W/DECAL
15	1	390984	1/8 X 1 1/4 COTTER PIN
16	3	470012	5/16 X 2 COTTER PIN
17	1	471005	GREASE ZERK, 1/4-28 X 1/2
18	5	483024	FENDER WASHER 5/16 MC
19	2	616356	06-451TC-06FJX-06FJX90-27 H/A
20	2	618688	9/16MOR-90-9/16MJ .025 CHK VLV
21	1	621562	OUTR FOLD CYL,2.25 X 21.00 STS
NS	1	621563	REPAIR KIT,HYD CYL 621562
23	2	650204	DECAL, WARNING, CRUSH HAZARD FP
24	5	900086	5/16UNC X 2 1/4 HEX BOLT
25	5	914002	5/16UNC HEX STOVER NUT
26	1	920004	1/2 SAE FLAT WASHER



RIGHT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121110	BOOM FOLD BRG, POLYGON
2	1	164526	BOOM BREAKAWAY PIVOT PIN WLD
3	1	164637	BOOM TIP SECTION PIN WLD
4	1	164905	90' BOOM LIGHT MOUNT, GST 06
5	1	164970	RH 90' BOOM TIP WLD, SECT-4
6	1	164971	RH BREAKAWAY BOOM WLD, SECT-3
7	1	165815	RH BRKWAY BM WLD, 100' SECT-3' 10
8	1	165999	RH FLDVR BM, SECT-2 W/DECAL
9	1	192506	.125 ID WIRE FLEX GUARD
10	1	291934	BOOM LIGHT ASSY, GST20
NS	1	293860	FENCE ROW EXT HARNESS 100'STS
NS	1	294308	GST BOOM WING HARNESS
NS	2	294351	HARNESS, 90/100' BOOM WING
14	2	470011	COTTER PIN 5/32 X 1 1/2
15	2	470087	3/8UNC HEX SERR FLANGE NUT
16	1	470378	SIDEWINDER SLEEVE, 14.06 X 21"
17	2	470463	8-32 SERR FLANGE NUT
18	1	471005	GREASE ZERK, 1/4-28 X 1/2
19	2	472334	3/4UNC HEX JAM NUT

RIGHT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
20	1	607540	KICK DOWN RELIEF VALVE, 800 PSI
21	1	614752	RESTRICTOR BR TEE ASSY, .042DIA
22	1	616360	06-451TC-06FJX-06FJX-84 H/A
23	1	616361	06-451TC-06FJX-06FJX-86 H/A
24	1	617054	04-451TC-06FJX-06FJX-11
25	1	618119	9/16MJIC-90-9/16MOR LBO
26	1	618629	9/16MOR BRANCH TEE-9/16MJIC
27	1	618668	9/16FJIC SWIV-9/16MOR ADPTR
28	1	621590	120'TIP FOLD CYL, STS 120' BM 08
NS	1	621591	REPAIR KIT, HYD CYL 621590
NS	1	650428	DECAL SHEET, 90' BOOM
31	2	900128	3/8UNC X 3/4 HEX BOLT
32	1	900265	1/2UNC X 1 1/2 HEX BOLT
33	1	900267	1/2UNC X 2" HEX BOLT
34	1	900519	1/2UNC X 2 HHSFB GR5 MC FT
35	2	903844	8-32 X 1/2 PHIL PANHD MACH SCR
36	2	906350	3/4UNC X 6" HEX BOLT FULL
37	2	914008	1/2 UNC HEX STOVER NUT
38	1	914015	1/2-13UNC CTRLK FLG NUT MC GR5



NOTE: THE RESTRICTOR IS ON THIS SIDE.

NOTE: ITEMS ARE USED WITH THE GST MACHINE.

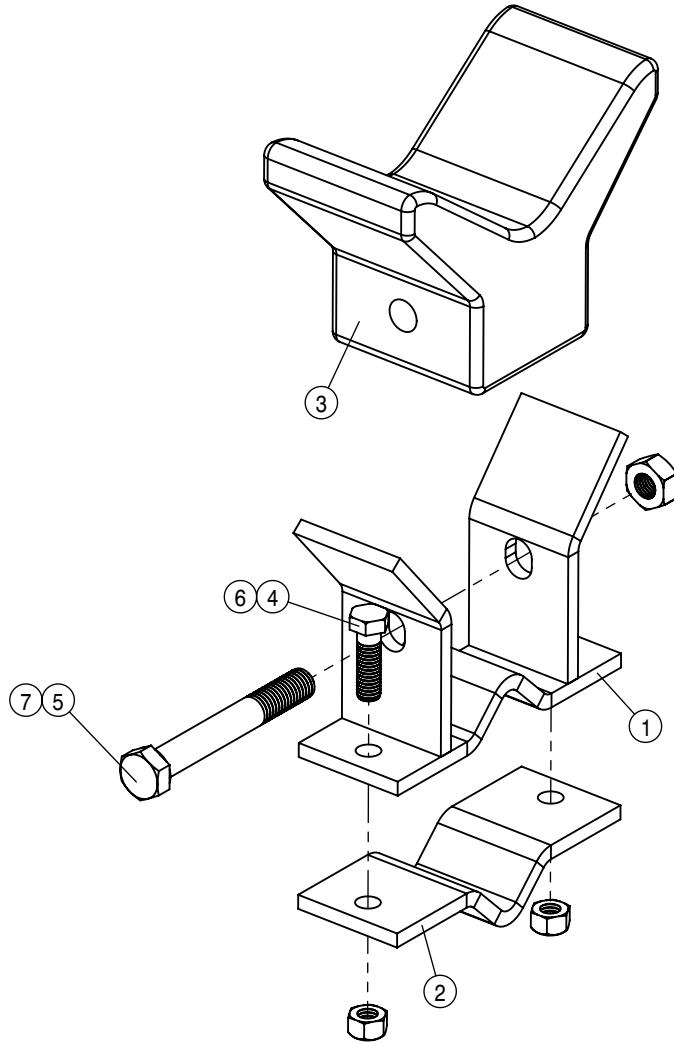
DETAIL A

DETAIL B

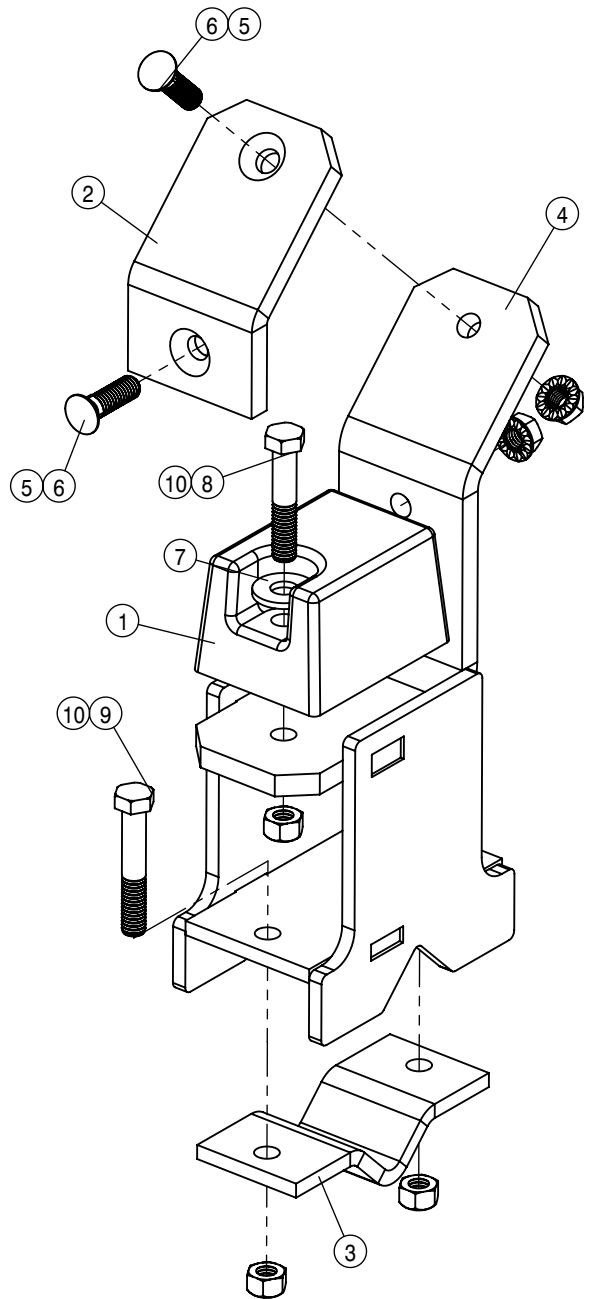
DETAIL C

LEFT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121110	BOOM FOLD BRG, POLYGON
2	1	164526	BOOM BREAKAWAY PIVOT PIN WLD
3	1	164637	BOOM TIP SECTION PIN WLD
4	1	164905	90' BOOM LIGHT MOUNT, GST 06
5	1	164973	LH BREAKAWAY BOOM WLD, SECT-3
6	1	164975	LH 90' BOOM TIP WLD, SECT-4
7	1	165816	LH BRKWAY BM WLD, 100' SECT-3' 10
8	1	166000	LH FLDOVR BM, SECT-2 W/DECAL
9	1	192506	.125 ID WIRE FLEX GUARD
10	1	291934	BOOM LIGHT ASSY, GST20
NS	1	293860	FENCE ROW EXT HARNESS 100' STS
NS	1	294308	GST BOOM WING HARNESS
NS	2	294351	HARNESS, 90/100' BOOM WING
14	2	470011	COTTER PIN 5/32 X 1 1/2
15	2	470087	3/8UNC HEX SERR FLANGE NUT
16	1	470378	SIDEWINDER SLEEVE, 14.06 X 21"
17	2	470463	8-32 SERR FLANGE NUT

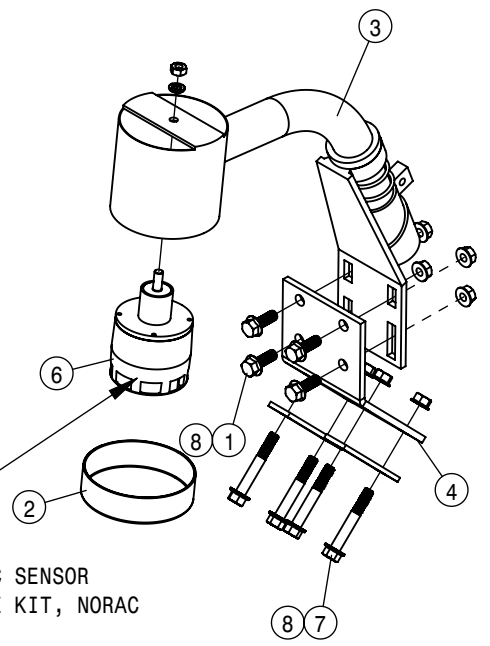
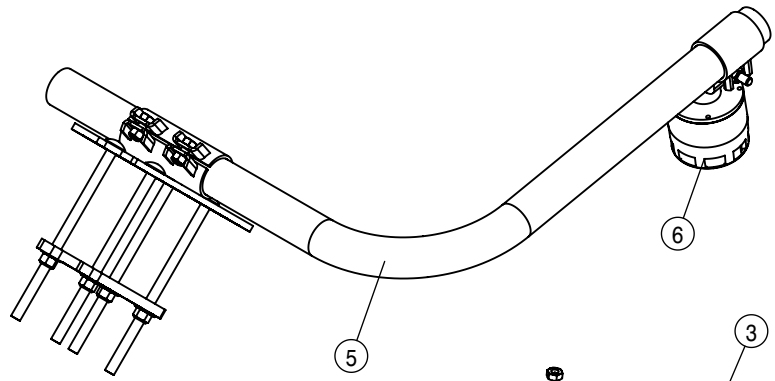
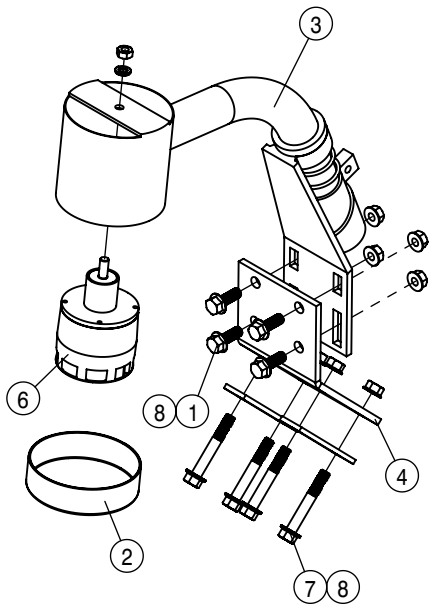
LEFT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
18	1	471005	GREASE ZERK, 1/4-28 X 1/2
19	2	472334	3/4UNC HEX JAM NUT
20	1	607540	KICK DOWN RELIEF VALVE, 800 PSI
21	1	614752	RESTRICTOR BR TEE ASSY, .042DIA
22	1	616360	06-451TC-06FJX-06FJX-84 H/A
23	1	616361	06-451TC-06FJX-06FJX-86 H/A
24	1	617054	04-451TC-06FJX-06FJX-11
25	1	618119	9/16MJIC-90-9/16MOR LBO
26	1	618629	9/16MOR BRANCH TEE-9/16MJIC
27	1	618668	9/16FJIC SWIV-9/16MOR ADPTR
28	1	621590	120' TIP FOLD CYL, STS 120' BM 08
NS	1	621591	REPAIR KIT, HYD CYL 621590
NS	1	650428	DECAL SHEET, 90' BOOM
31	2	900128	3/8UNC X 3/4 HEX BOLT
32	1	900265	1/2UNC X 1 1/2 HEX BOLT
33	1	900267	1/2UNC X 2" HEX BOLT
34	1	900519	1/2UNC X 2 HHSFB GR5 MC FT
35	2	903844	8-32 X 1/2 PHIL PANHD MACH SCR
36	2	906350	3/4UNC X 6" HEX BOLT FULL
37	2	914008	1/2 UNC HEX STOVER NUT
38	1	914015	1/2-13UNC CTRLK FLG NUT MC GR5



BOOM SUPPORT ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	164544	FRT BOOM SUPPORT WLD, 90' BOOM
2	1	164545	FRT BOOM SUPPORT MT
3	1	470324	3" RUBBER BOW GUARD
4	2	900130	3/8UNC X 1 1/4 HEX BOLT
5	1	900273	1/2UNC X 3 3/4 HEX BOLT
6	2	914004	3/8UNC HEX STOVER NUT
7	1	914008	1/2 UNC HEX STOVER NUT

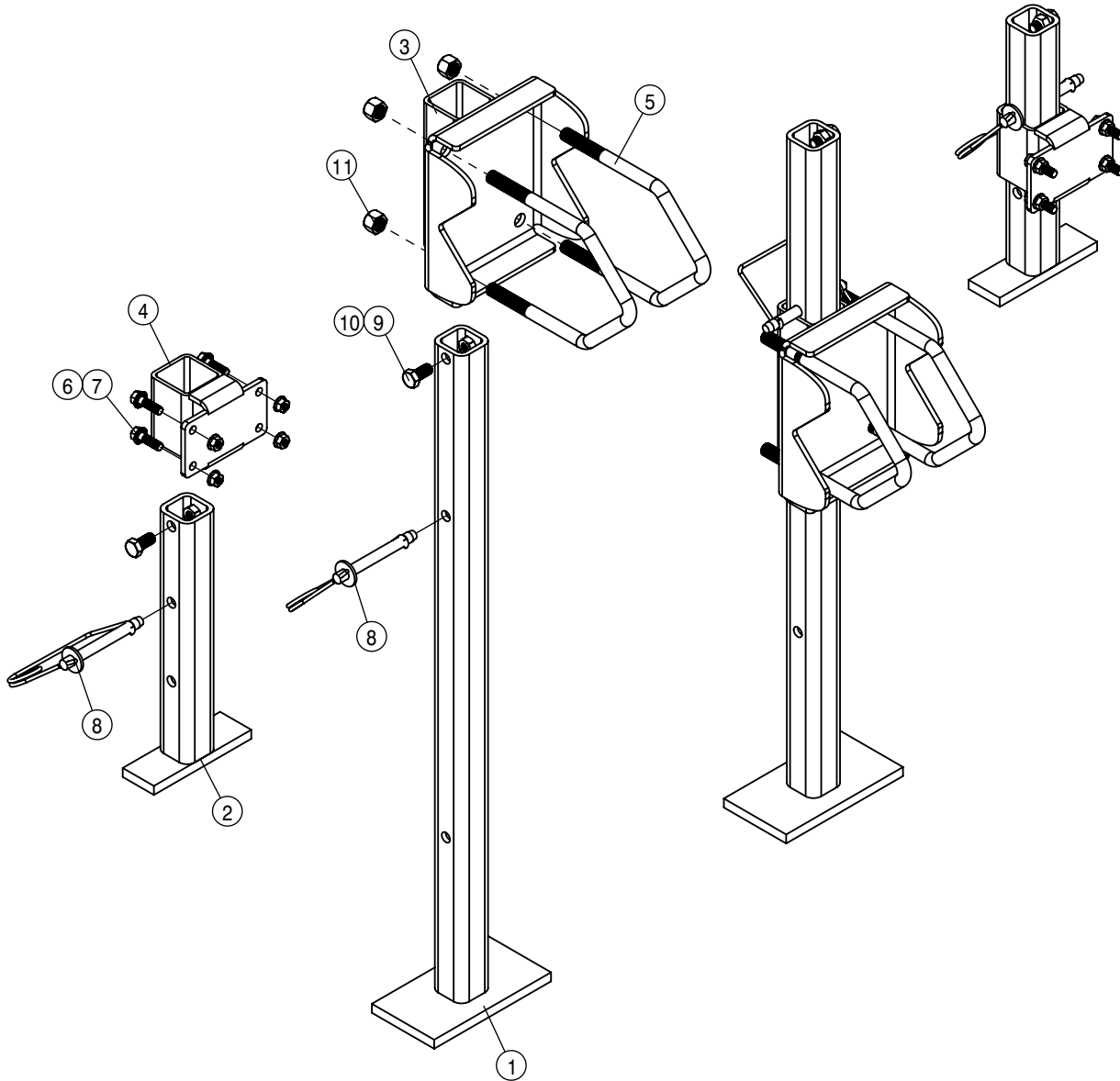


BOOM SUPPORT CRADLE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	164541	BOOM SUPPORT PAD
2	1	164542	BOOM SUPPORT CRADLE PAD
3	1	164543	BOOM SUPPORT KEEPER
4	1	164811	BOOM SUPP CRADLE WLD,80/90' 04
5	2	470087	3/8UNC HEX SERR FLANGE NUT
6	4	470328	3/8UNC X 1 1/4 #3HD PLOW BOLT
7	1	483043	3/8 REGULAR FLAT WASHER
8	1	900133	3/8UNC X 2" HEX BOLT
9	2	900170	3/8UNC X 2 1/4 HEX BOLT
10	3	914004	3/8UNC HEX STOVER NUT

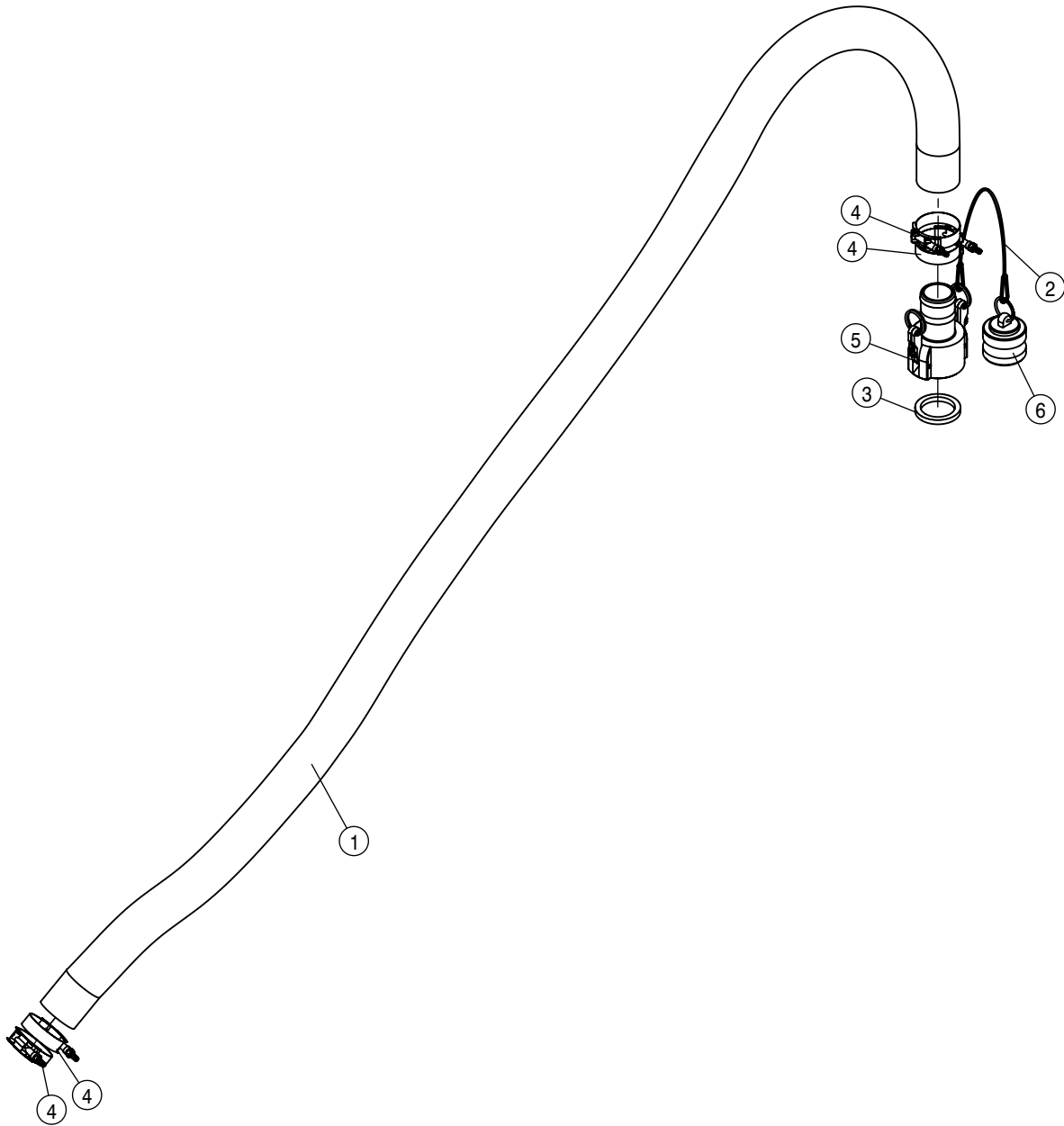


REPAIR PARTS
 693063-FOAM DISK, NORAC SENSOR
 693174-MESH/CLIP UPDATE KIT, NORAC

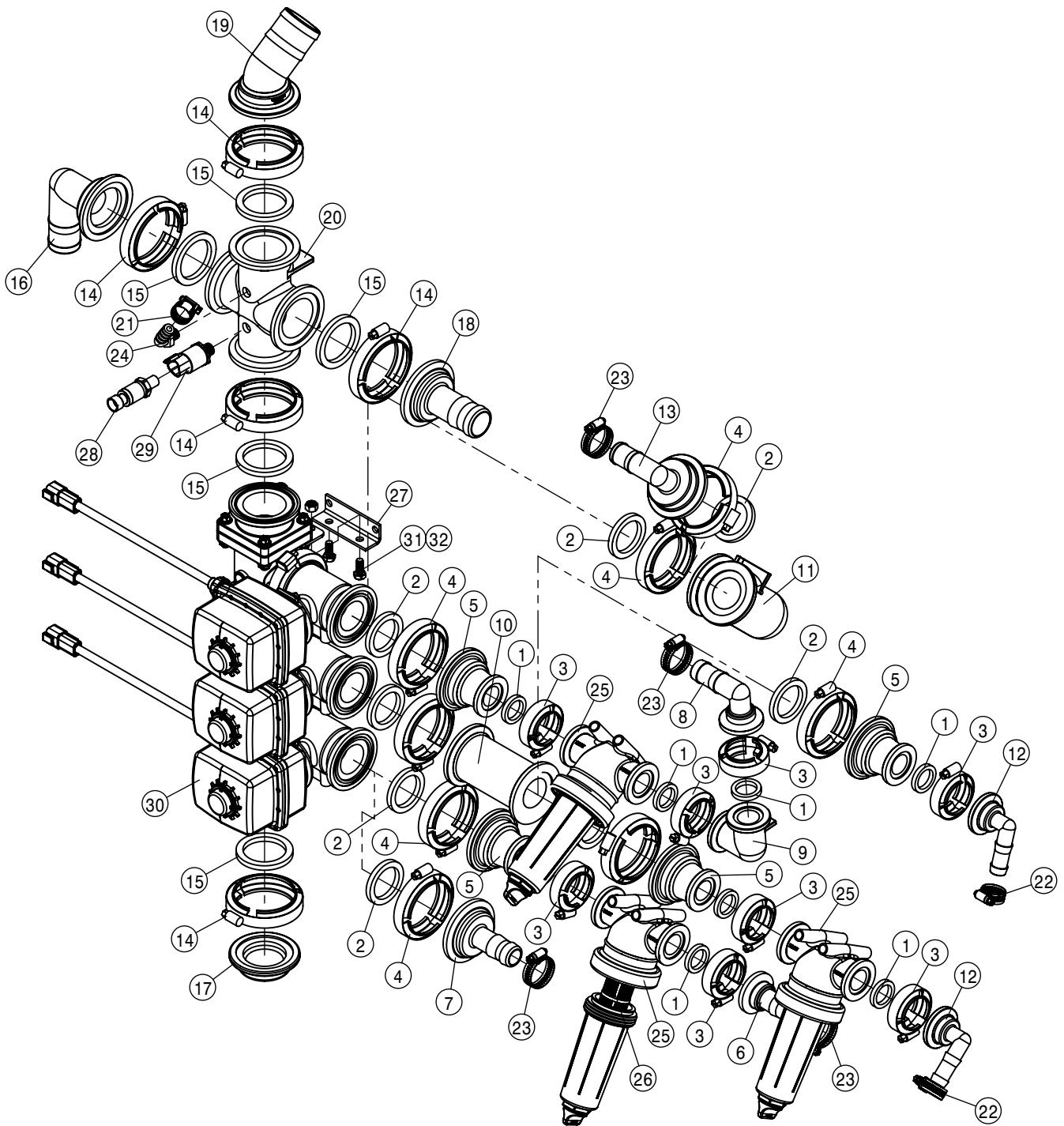
NORAC SENSOR MOUNTS 90/100			
DET	QTY	P/N	DESCRIPTION
1	8	470460	3/8 X 1" SERR FLG BOLT
2	2	629776	CAPPLUGS CAP,4.00ID X 1.25 RED
3	2	693068	SENSOR MTG BRKT, NORAC
4	2	693069	SENSOR MT BRKT ADPTR, NORAC
5	1	693072	MAIN LIFT SENSOR MT,UC4+,NORAC
6	3	693113	SENSOR, NORAC UC5 ULTRASONIC
7	8	900507	3/8UNC X 2 1/2 HHSFB GR5 MC
8	16	910042	3/8-16UNC HEX FLG NUT SM MC GR8



BOOM STAND OPTION 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	164787	TRANSOM STAND POST WLD, STS 04
2	2	164794	BOOM STAND POST WLD, STS 04
3	2	164855	TRANSOM STAND MT WLD, STS 05
4	2	164857	MAIN BOOM JACKSTAND WLD, STS 05
5	4	438293	5/8UNC X 6 1/4 CTR U-BOLT TRI
6	8	470087	3/8UNC HEX SERR FLANGE NUT
7	8	470329	3/8UNC X 1 1/4 SERR FLG HEX BOLT
8	4	470361	SNAP LOCK PIN, 1/2 X 3 1/2
9	4	900263	1/2UNC X 1" HEX BOLT
10	4	914008	1/2 UNC HEX STOVER NUT
11	8	914010	5/8UNC HEX STOVER NUT

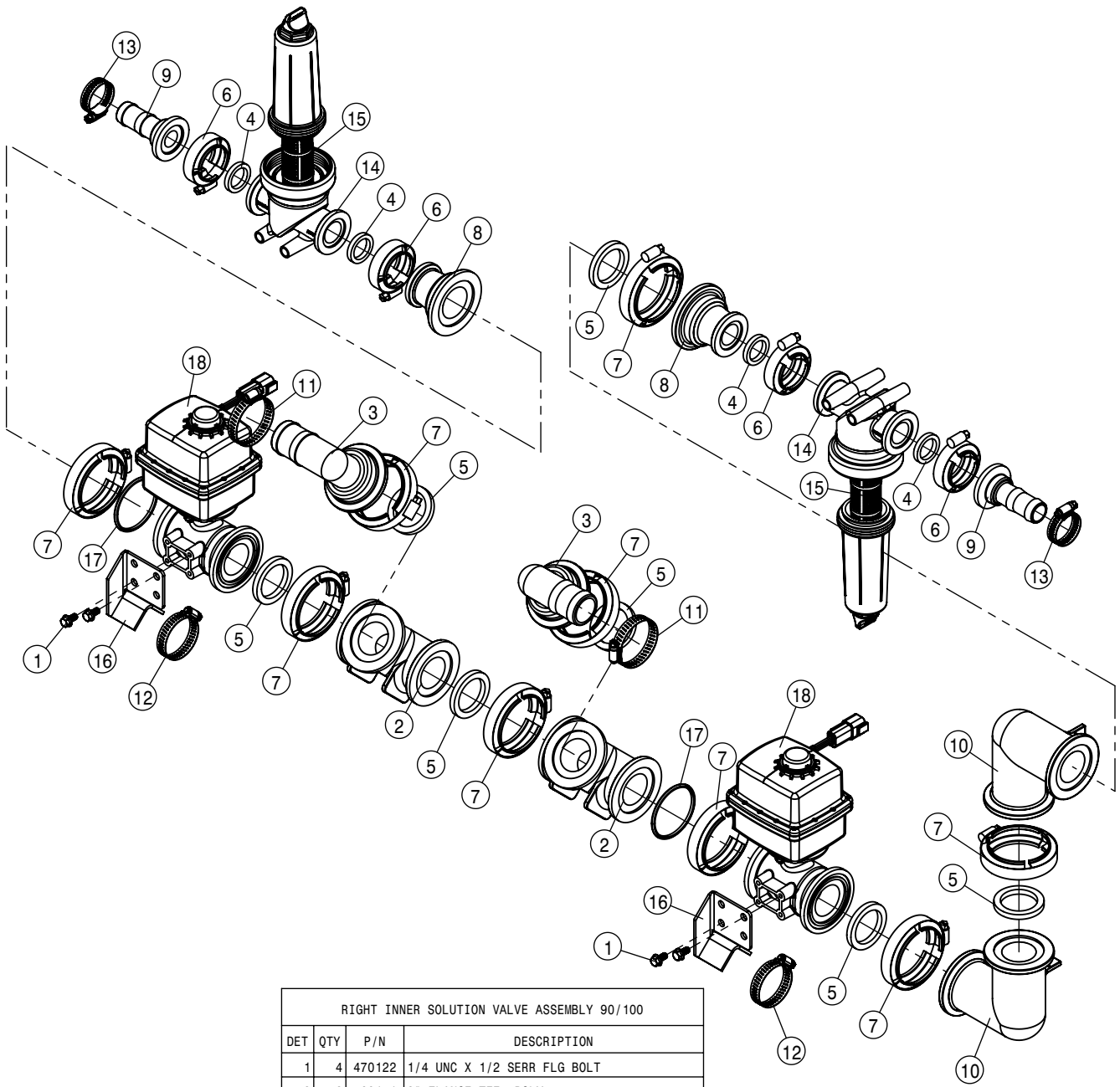


CAM COUPLING ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	197133-091	HOSE, 2ID X 091 2F-W1 EPDM
2	1	470322	LANYARD 8" NYLON LOOP/LOOP
3	1	500231	2"FP FLANGE GASKET,EXTRA THICK
4	4	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
5	1	690272	2" FEM COUPLER W/LOCK,2" BARB
6	1	690392	PLUG FOR 2.00 FEMALE COUPLER

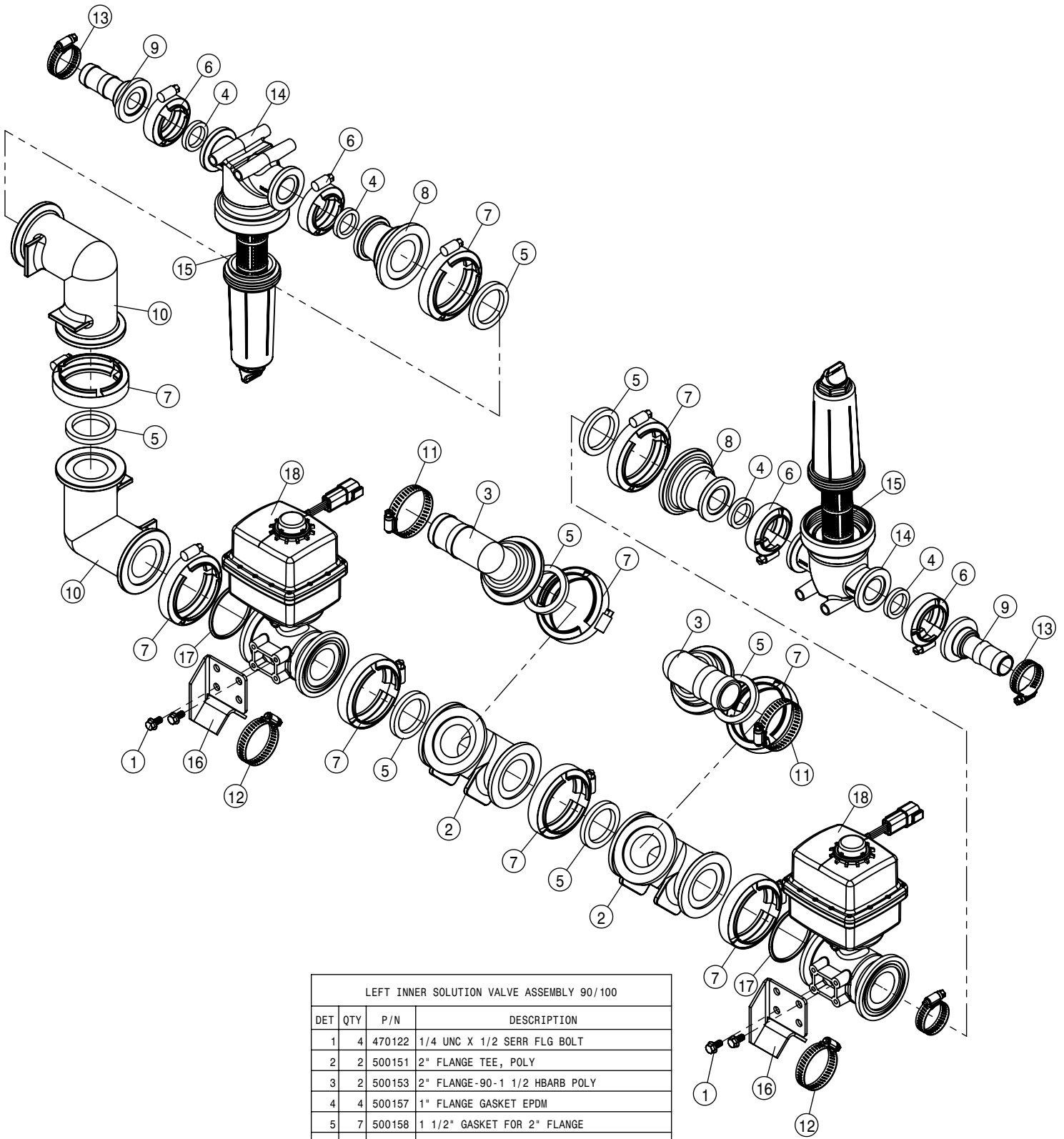


SOLUTION CONTROL VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	8	500157	1" FLANGE GASKET EPDM
2	8	500158	1 1/2" GASKET FOR 2" FLANGE
3	8	500159	1" FLANGE CLAMP S.S.
4	8	500160	2" FLANGE CLAMP S.S.
5	4	500161	2" FLANGE-1"FLANGE ADPTR POLY
6	1	500171	1" FLANGE-1" HOSE BARB POLY
7	1	500172	2" FLANGE-1 " HOSE BARB
8	1	500173	1"FLANGE-90-1"HOSE BARB POLY
9	1	500174	1" FLANGE-90-1" FLANGE LBOPOLY
10	1	500177	2" FLANGE-2" FLANGE CPLR POLY
11	1	500180	2" FLANGE-90-2"FLANGE LBO POLY
12	2	500185	1"FLANGE-90-3/4"HOSE BARB POLY
13	1	500189	2" FLANGE-90-1" HOSE BARB POLY
14	5	500194	2" FP FLANGE CLAMP S.S.
15	5	500195	2" FP FLANGE GASKET EPDM
16	1	500197	2" FP FLANGE-90-1 1/2 HBARB

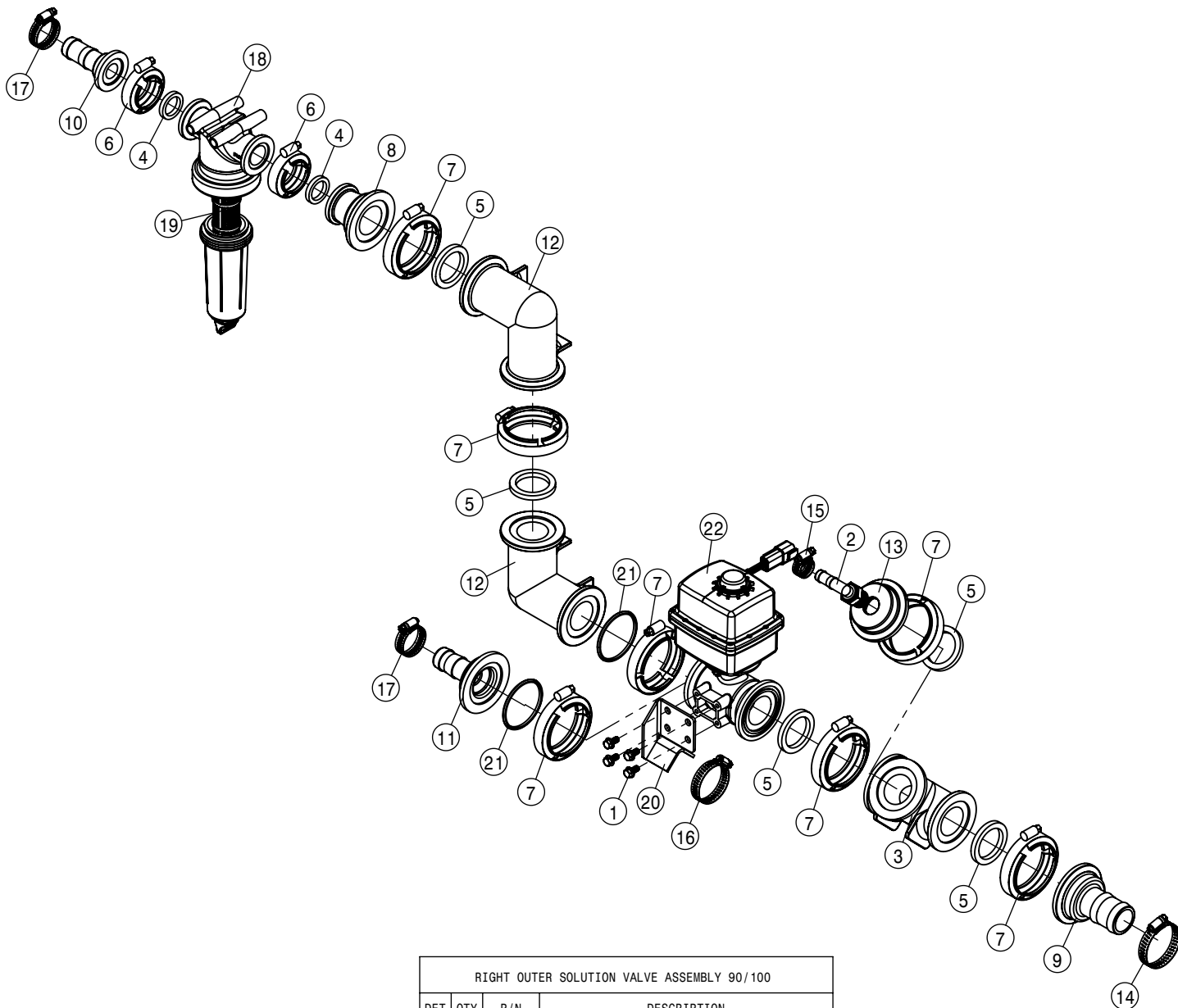
SOLUTION CONTROL VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
17	1	500206	2"FP FLANGE PLUG
18	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
19	1	500255	2"FP FLANGE - 45- 2"HOSE BARB POLY
20	1	503111	2" FP CROSS W/ TWO GAGE PORTS
21	1	520070	HOSE CLAMP NO 8 STAINLESS
22	2	520080	HOSE CLAMP NO 10 STAINLESS
23	4	520090	HOSECLAMP NO 16 STAINLESS
24	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
25	3	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
26	3	690661	50 MESH SCREEN FOR 690660
27	2	690870	SOLU VLV MANIF MT BRKT STS 03
28	1	693974	AG LEADER PRESSURE SENSOR KIT
29	1	693986	RVN PRESS TRANSDUCER DEUSTCH
30	1	696259	VALVE, 3 SECT KZCO 400-3CIM-DJ
31	4	900064	5/16UNC X 3/4" HEX BOLT
32	4	914002	5/16UNC HEX STOVER NUT



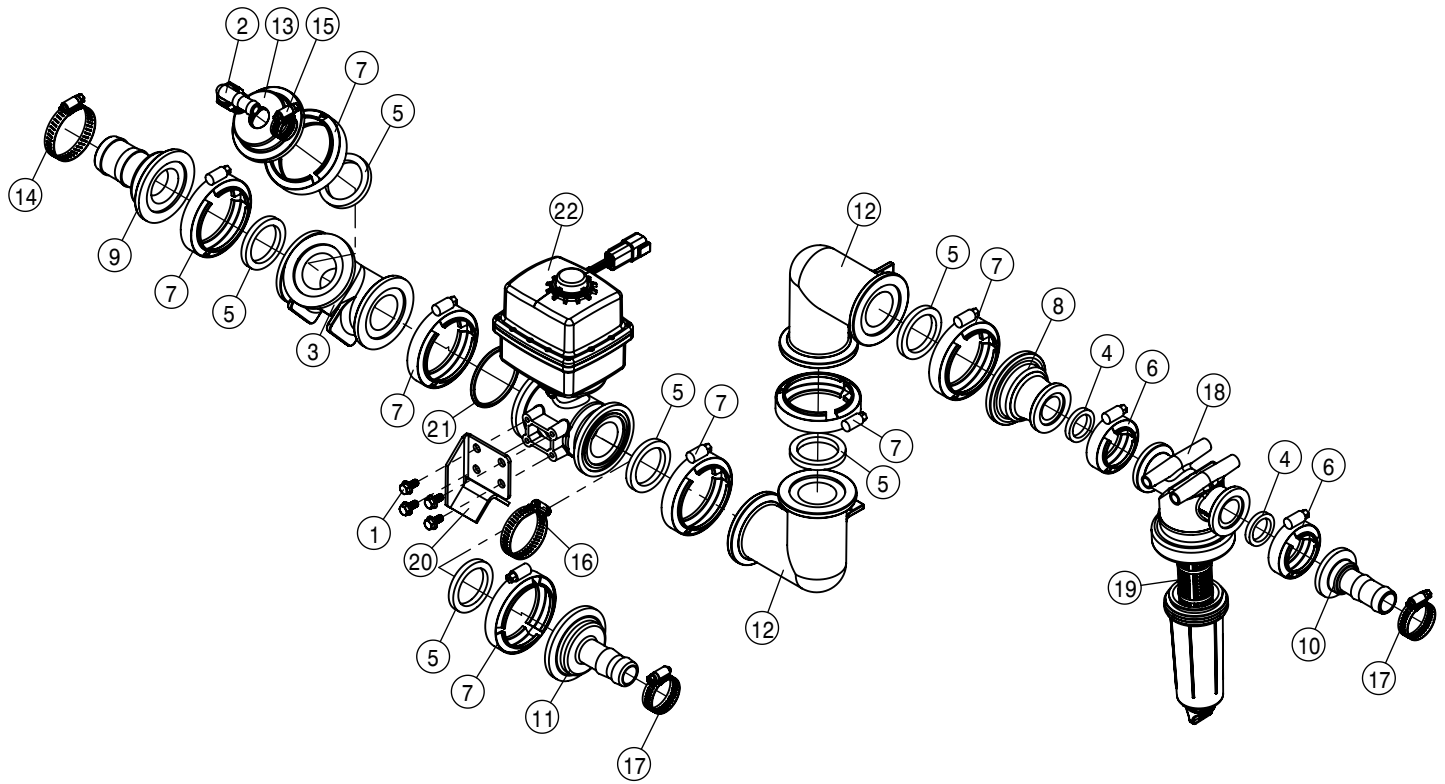
RIGHT INNER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	2	500151	2" FLANGE TEE, POLY
3	2	500153	2" FLANGE-90-1 1/2 HBARB POLY
4	4	500157	1" FLANGE GASKET EPDM
5	7	500158	1 1/2" GASKET FOR 2" FLANGE
6	4	500159	1" FLANGE CLAMP S.S.
7	9	500160	2" FLANGE CLAMP S.S.
8	2	500161	2" FLANGE-1"FLANGE ADPTR POLY
9	2	500171	1" FLANGE-1" HOSE BARB POLY
10	2	500180	2" FLANGE-90-2"FLANGE LBO POLY
11	2	520067	HOSE CLAMP NO 28 STAINLESS
12	2	520085	HOSE CLAMP NO 24 STAINLESS
13	2	520090	HOSECLAMP NO 16 STAINLESS
14	2	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
15	2	690661	50 MESH SCREEN FOR 690660
16	2	690871	80/90 BOOM VLV MT WLD 03
17	2	696254	O-RING, KZCO FLANGED VALVE
18	2	696260	VALVE, KZCO C2F-55B-M-S9



LEFT INNER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	2	500151	2" FLANGE TEE, POLY
3	2	500153	2" FLANGE-90-1 1/2 HBARB POLY
4	4	500157	1" FLANGE GASKET EPDM
5	7	500158	1 1/2" GASKET FOR 2" FLANGE
6	4	500159	1" FLANGE CLAMP S.S.
7	9	500160	2" FLANGE CLAMP S.S.
8	2	500161	2" FLANGE-1"FLANGE ADPTR POLY
9	2	500171	1" FLANGE-1" HOSE BARB POLY
10	2	500180	2" FLANGE-90-2"FLANGE LBO POLY
11	2	520067	HOSE CLAMP NO 28 STAINLESS
12	2	520085	HOSE CLAMP NO 24 STAINLESS
13	4	520090	HOSECLAMP NO 16 STAINLESS
14	2	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
15	2	690661	50 MESH SCREEN FOR 690660
16	2	690871	80/90 BOOM VLV MT WLD 03
17	2	696254	O-RING, KZCO FLANGED VALVE
18	2	696260	VALVE, KZCO C2F-55B-M-S9

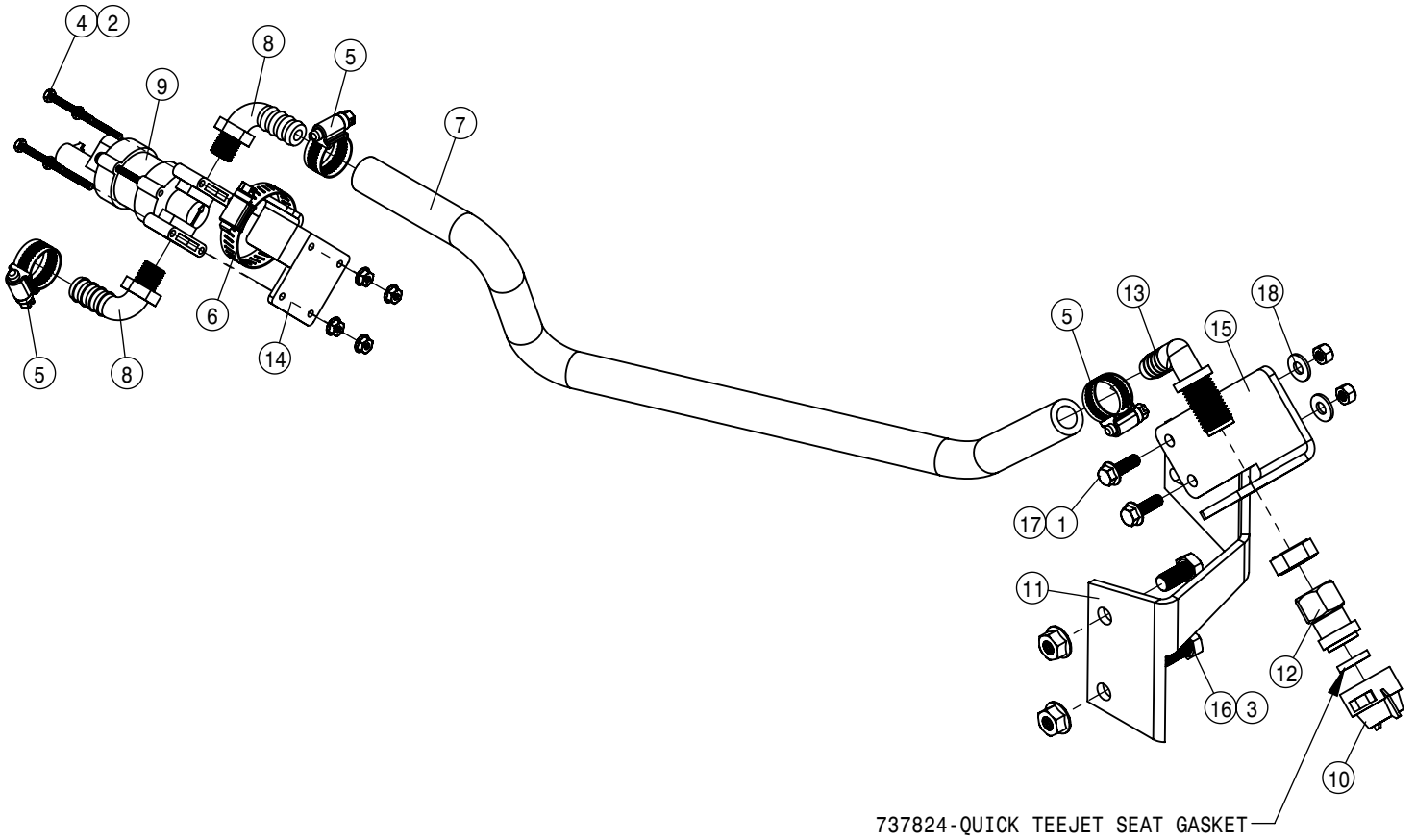


RIGHT OUTER SOLUTION VALVE ASSEMBLY 90/100				
DET	QTY	P/N	DESCRIPTION	
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT	
2	1	500047	1/2NPT-90-1/2 HOSE BARB, POLY	
3	1	500151	2" FLANGE TEE, POLY	
4	2	500157	1" FLANGE GASKET EPDM	
5	5	500158	1 1/2" GASKET FOR 2" FLANGE	
6	2	500159	1" FLANGE CLAMP S.S.	
7	7	500160	2" FLANGE CLAMP S.S.	
8	1	500161	2" FLANGE-1"FLANGE ADPTR POLY	
9	1	500162	2" FLANGE-1 1/2 HOSE BARB POLY	
10	1	500171	1" FLANGE-1" HOSE BARB POLY	
11	1	500172	2" FLANGE-1 " HOSE BARB	
12	2	500180	2" FLANGE-90-2"FLANGE LBO POLY	
13	1	500224	2" FLANGE PLUG W/1/2" FNPT POLY	
14	1	520067	HOSE CLAMP NO 28 STAINLESS	
15	1	520070	HOSE CLAMP NO 8 STAINLESS	
16	1	520085	HOSE CLAMP NO 24 STAINLESS	
17	2	520090	HOSECLAMP NO 16 STAINLESS	
18	1	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN	
19	1	690661	50 MESH SCREEN FOR 690660	
20	1	690871	80/90 BOOM VLV MT WLD 03	
21	2	696254	O-RING, KZCO FLANGED VALVE	
22	1	696260	VALVE, KZCO C2F-55B-M-S9	

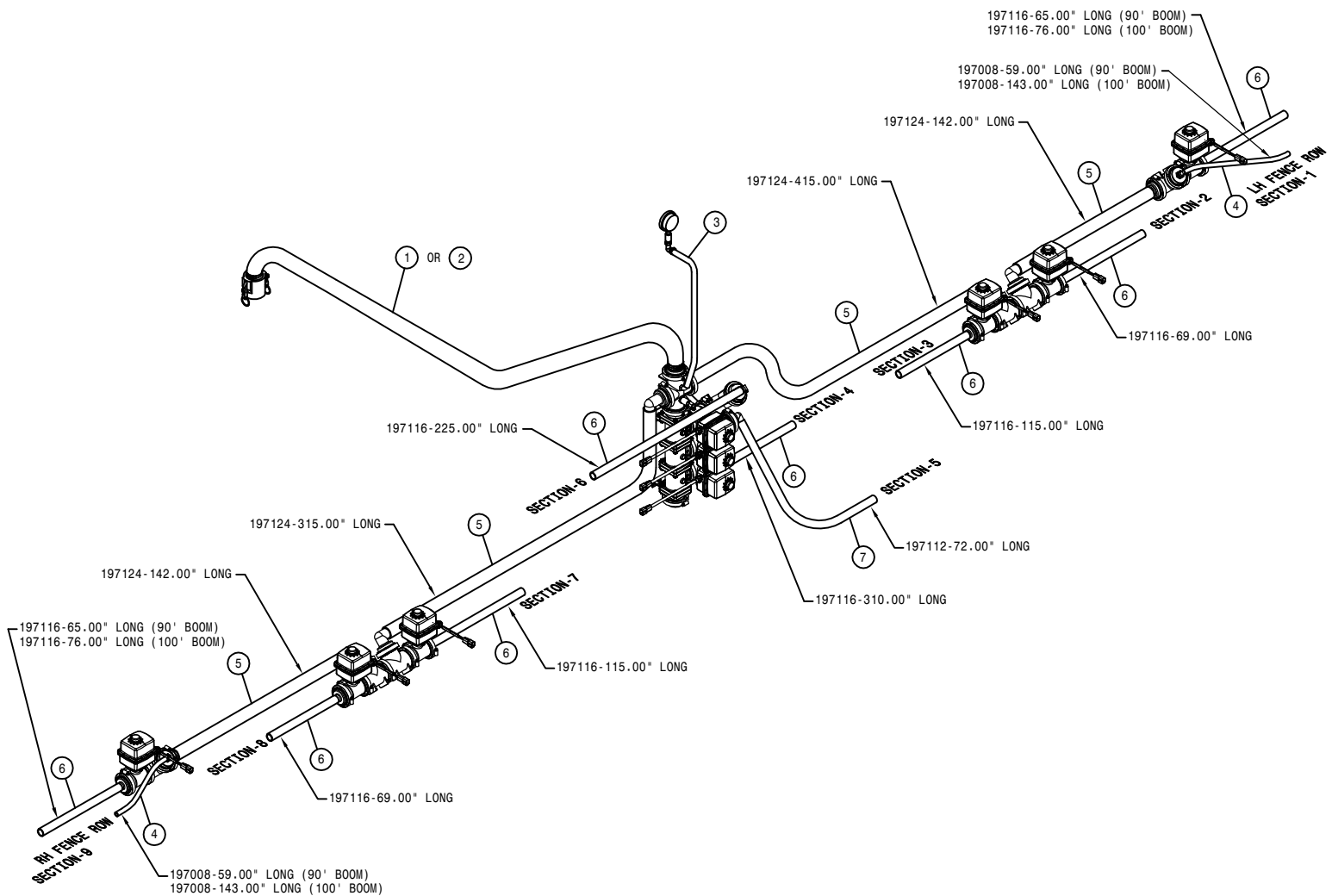


LEFT OUTER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	1	500047	1/2NPT-90-1/2 HOSE BARB, POLY
3	1	500151	2" FLANGE TEE, POLY
4	2	500157	1" FLANGE GASKET EPDM
5	6	500158	1 1/2" GASKET FOR 2" FLANGE
6	2	500159	1" FLANGE CLAMP S.S.
7	7	500160	2" FLANGE CLAMP S.S.
8	1	500161	2" FLANGE-1"FLANGE ADPTR POLY
9	1	500162	2" FLANGE-1 1/2 HOSE BARB POLY
10	1	500171	1" FLANGE-1" HOSE BARB POLY
11	1	500172	2" FLANGE-1 " HOSE BARB
12	2	500180	2" FLANGE-90-2"FLANGE LBO POLY
13	1	500224	2" FLANGE PLUG W/1/2" FNPT POLY
14	1	520067	HOSE CLAMP NO 28 STAINLESS
15	1	520070	HOSE CLAMP NO 8 STAINLESS
16	1	520085	HOSE CLAMP NO 24 STAINLESS
17	2	520090	HOSECLAMP NO 16 STAINLESS
18	1	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
19	1	690661	50 MESH SCREEN FOR 690660
20	1	690871	80/90 BOOM VLV MT WLD 03
21	1	696254	O-RING, KZCO FLANGED VALVE
22	1	696260	VALVE, KZCO C2F-55B-M-S9

BULK HOSE
197008-HOSE 1/2 1-FBR BR BLK EPDM



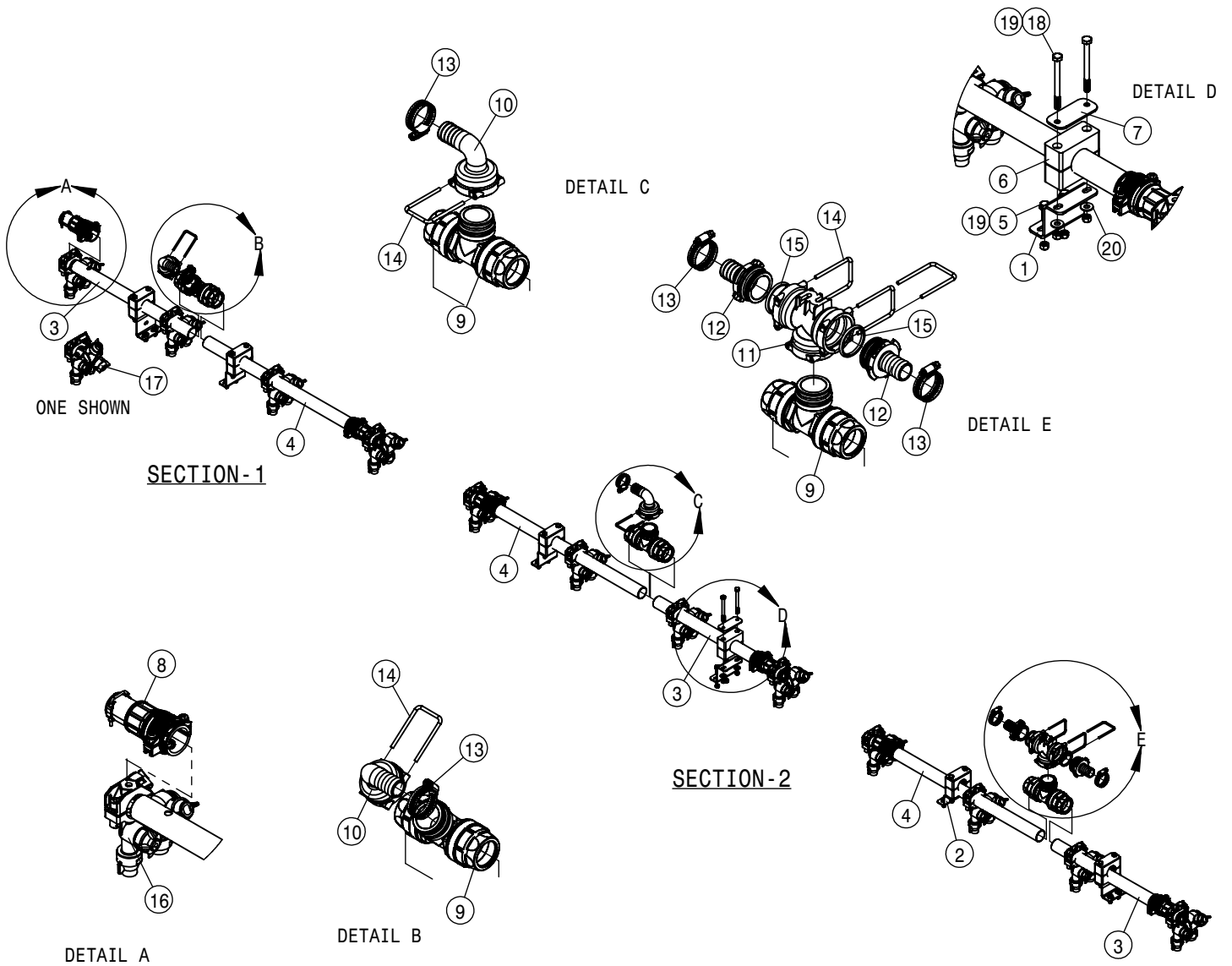
LEFT FENCE ROW NOZZLE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	470118	1/4 UNC X 3/4 SER FLG BOLT
2	4	470509	6-32 SERR. FLANGE NUT
3	2	472029	3/8UNC SERR FLANGE NUT SS
4	4	473993	6-32 X 1 1/4 HH MACH SCR
5	3	520070	HOSE CLAMP NO 8 STAINLESS
6	1	520087	HOSE CLAMP NO 20 STAINLESS
7	1	601719	HOSE, 1/2 X 23 1BR BLK EPDM
8	2	618556	1/4NPT-90 1/2 HOSE BARB POLY
9	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
10	1	737822	CAP SET, YELLOW QUICK TEEJET
11	1	737908	LH FENCE ROW TIP BRKT MT
12	1	737931	11/16-16F-QUICK TJET ADAPTER
13	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
14	1	737945	MTG BRKT-SOLENOID, FENCE ROW
15	1	737947	MTG BRKT-LH FENCE ROW NOZZLE
16	2	900128	3/8UNC X 3/4 HEX BOLT
17	2	914000	1/4UNC HEX STOVER NUT
18	2	920000	1/4 SAE FLAT WASHER



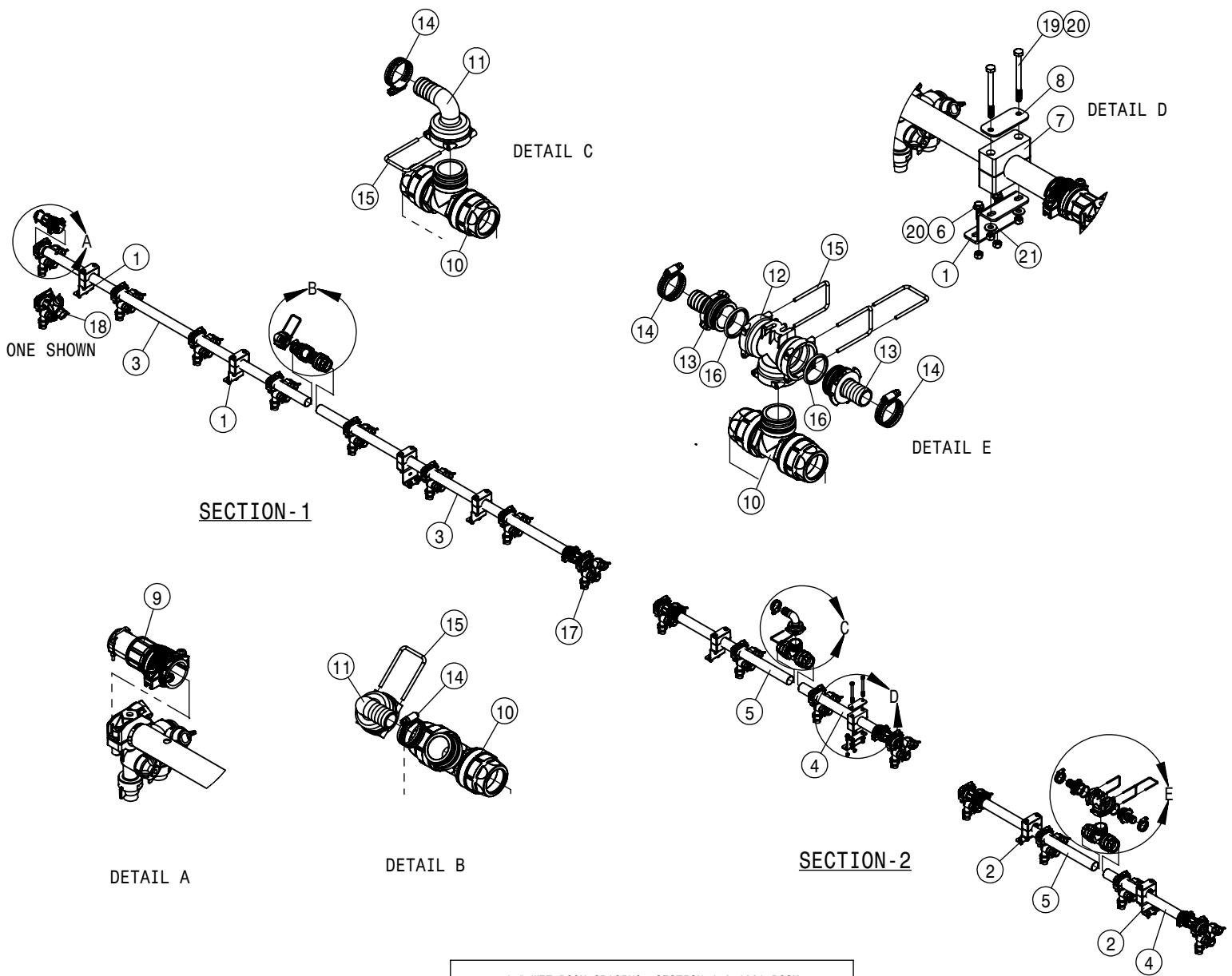
SOLUTION HOSING 90' / 100' BOOM

DET. QTY PART NO. DESCRIPTION

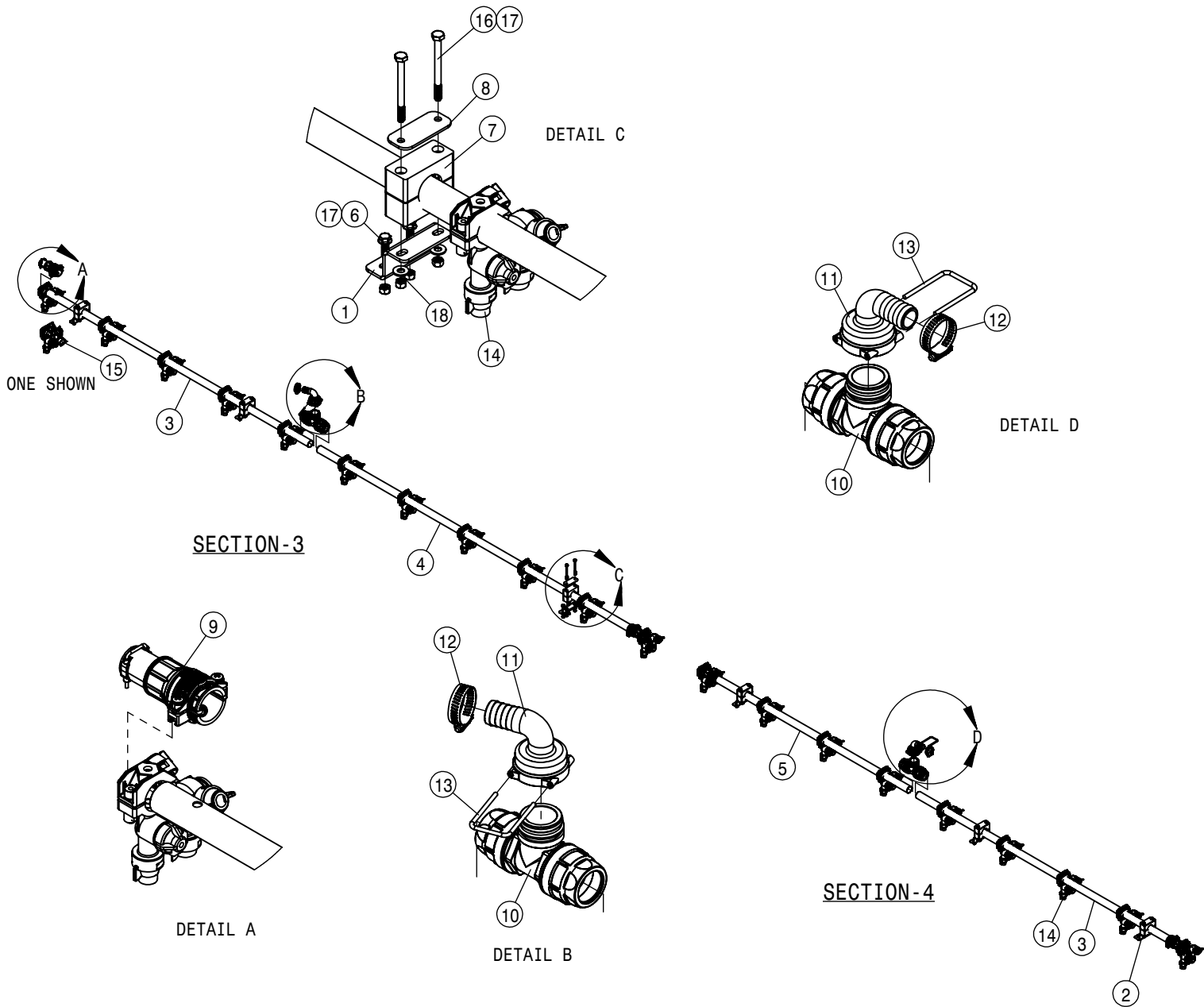
1	1	601894	HOSE, 2 x 91 2F-1W EPDM
2	1	601081	HOSE, 2 X 79 2F-1W EPDM
3	1	601634	HOSE, 1/2 X 78 1BR BLK EPDM
4	2	197008	HOSE 1/2 1-FBR BR BLK EPDM
5	4	197124	HOSE 1 1/2 2-FBR BR BLK EPDM
6	8	197116	HOSE 1IN 1-FBR BR BLK EPDM
7	1	197112	HOSE 3/4 1-FBR BR BLK EPDM



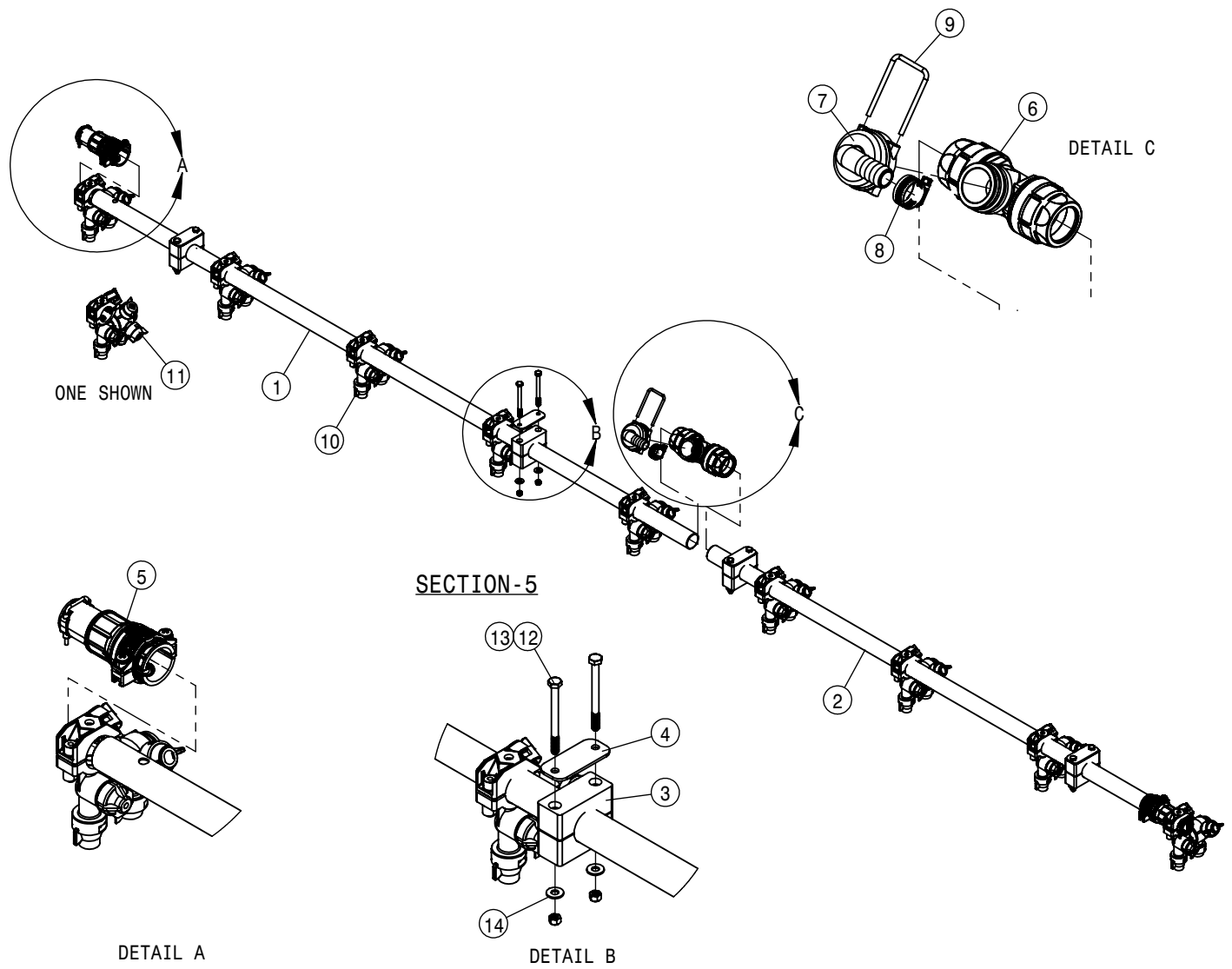
15" WET BOOM SPACING, SECTION 1-2 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167235	15" WET BOOM TUBE, 17.32 LG
4	3	167236	15" WET BOOM TUBE, 24.00 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	6	500295	NOZZLE BODY END CAP
9	3	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	1	500300	T5 FEMALE TEE
12	2	500301	T5 MALE TO 25MM HB
13	4	520090	HOSECLAMP NO 16 STAINLESS
14	5	737738	FORK,D.3 DIST.42 (737731)
15	2	737763	O-RING, 1 1/4"CONN EPDM
16	12	737921	QUICK TJET 3-TIP BODY,1" HV
17	12	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	12	900010	1/4UNC X 3" HEX BOLT
19	24	914000	1/4UNC HEX STOVER NUT
20	12	920000	1/4 SAE FLAT WASHER



15" WET BOOM SPACING, SECTION 1-2 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167229	15" WET BOOM TUBE, 50.66 LG
4	2	167235	15" WET BOOM TUBE, 17.32 LG
5	2	167236	15" WET BOOM TUBE, 24.00 LG
6	16	470118	1/4 UNC X 3/4 SER FLG BOLT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	1	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	4	520090	HOSECLAMP NO 16 STAINLESS
15	5	737738	FORK,D.3 DIST.42 (737731)
16	2	737763	O-RING, 1 1/4"CONN EPDM
17	16	737921	QUICK TJET 3-TIP BODY,1" HV
18	16	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	16	900010	1/4UNC X 3" HEX BOLT
20	32	914000	1/4UNC HEX STOVER NUT
21	16	920000	1/4 SAE FLAT WASHER

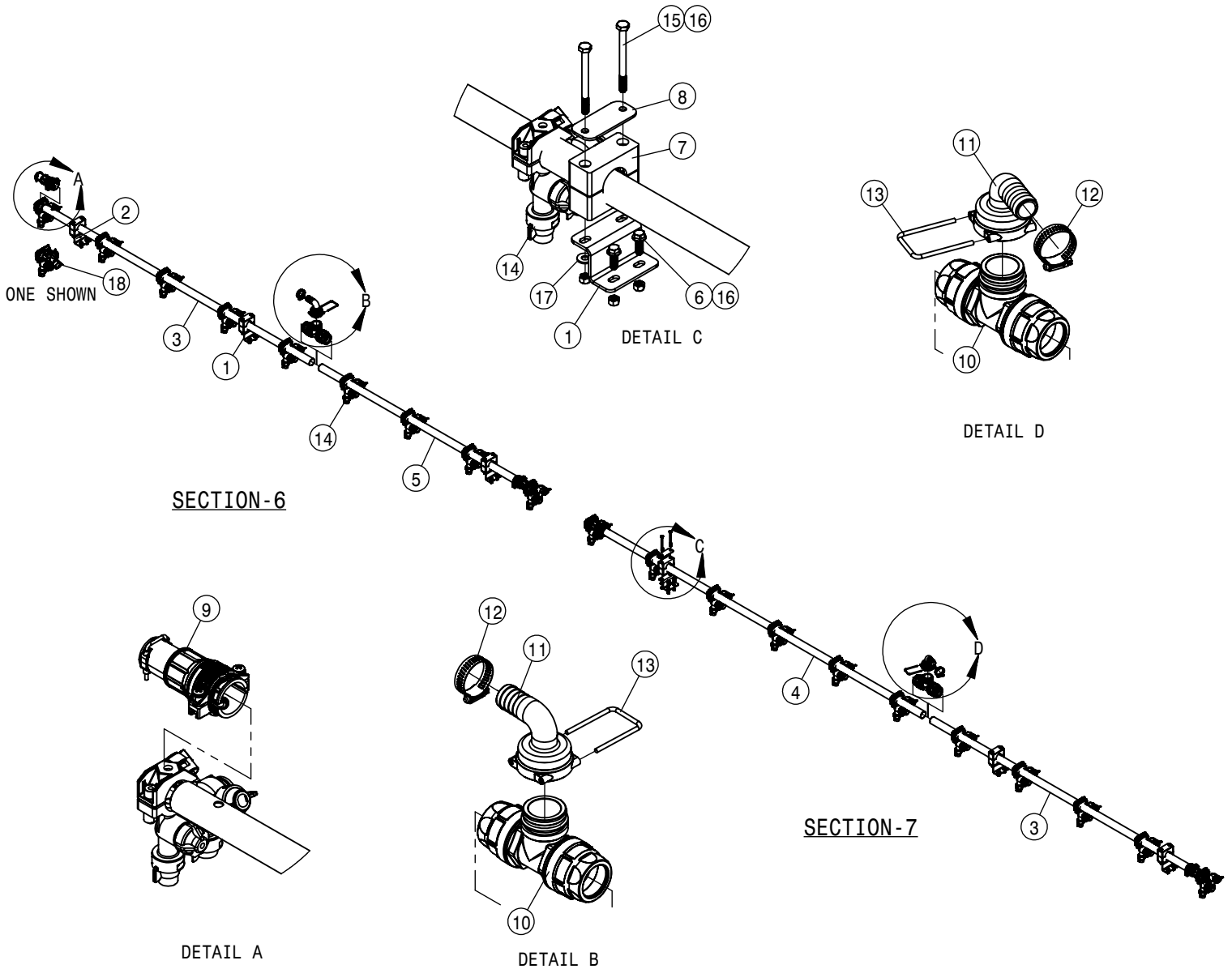


15" WET BOOM SPACING, SECTION 3-4 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	2	167225	15" WET BOOM TUBE, 65.66 LG
4	1	167228	15" WET BOOM TUBE, 80.66 LG
5	1	167229	15" WET BOOM TUBE, 50.66 LG
6	12	470118	1/4 UNC X 3/4 SER FLG BOLT
7	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	6	470376	COVER PLATE FOR 470375
9	4	500295	NOZZLE BODY END CAP
10	2	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	2	520090	HOSECLAMP NO 16 STAINLESS
13	2	737738	FORK, D.3 DIST.42 (737731)
14	20	737921	QUICK TJET 3-TIP BODY, 1" HV
15	20	737925	QUICK TJET 5 + 1-TIP BODY 1"
16	12	900010	1/4UNC X 3" HEX BOLT
17	24	914000	1/4UNC HEX STOVER NUT
18	12	920000	1/4 SAE FLAT WASHER

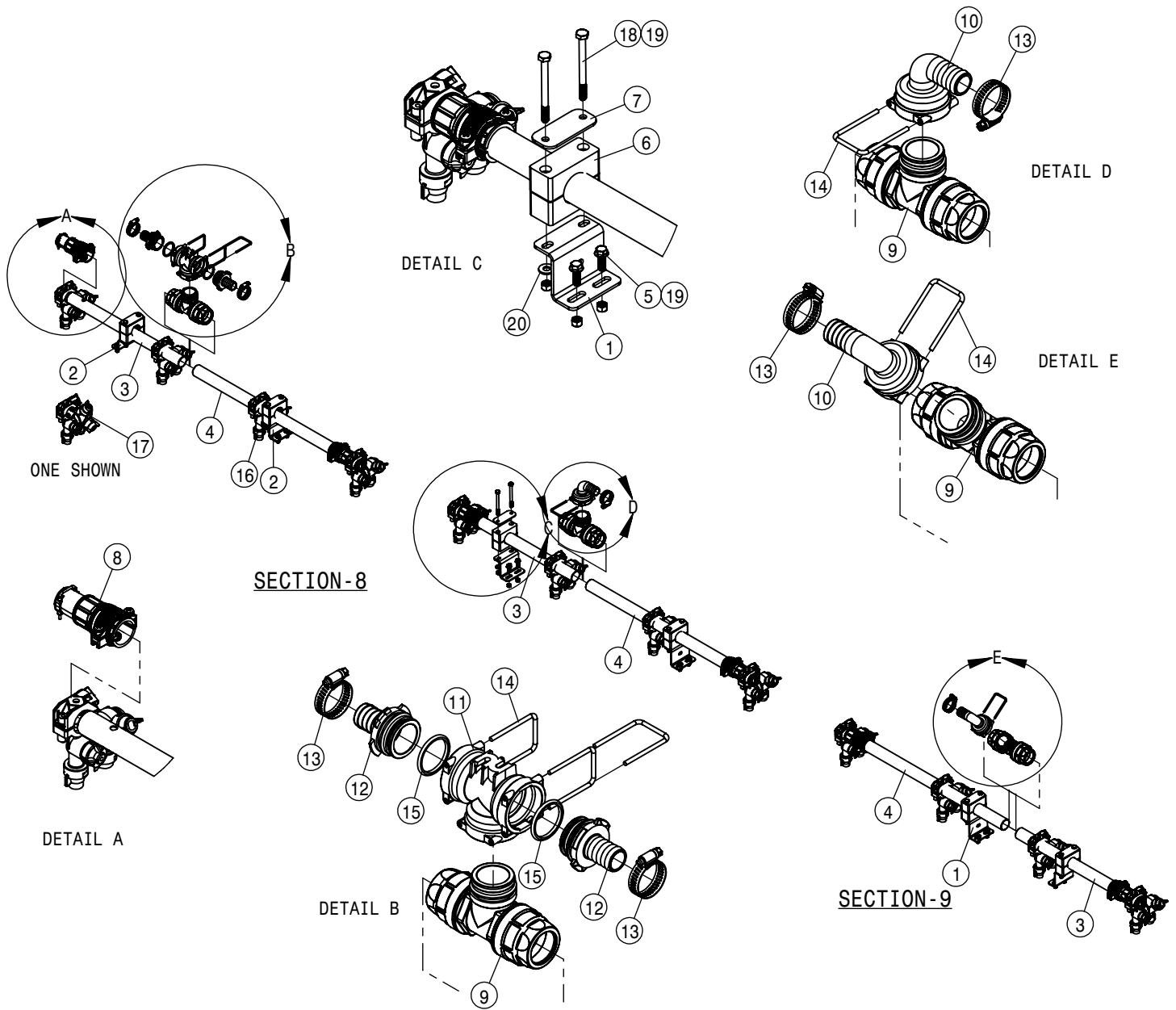


15" WET BOOM SPACING, SECTION-5 90/100 BOOM

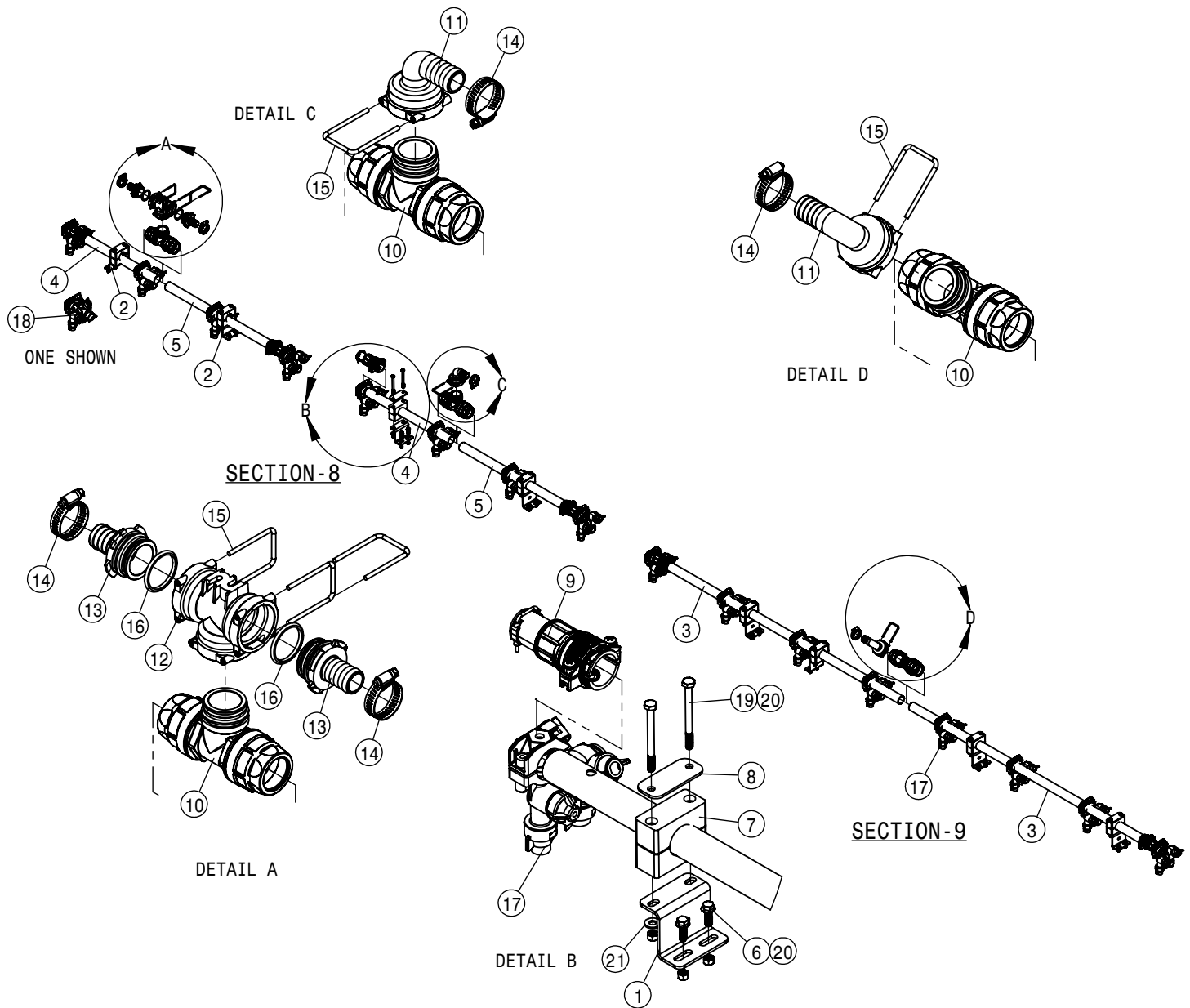
DET	QTY	P/N	DESCRIPTION
1	1	167225	15" WET BOOM TUBE, 65.66 LG
2	1	167229	15" WET BOOM TUBE, 50.66 LG
3	4	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	4	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500297	T5 TO 20MM HB 90
8	1	520080	HOSE CLAMP NO 10 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	9	737921	QUICK TJET 3-TIP BODY,1" HV
11	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
12	8	900010	1/4UNC X 3" HEX BOLT
13	8	914000	1/4UNC HEX STOVER NUT
14	8	920000	1/4 SAE FLAT WASHER



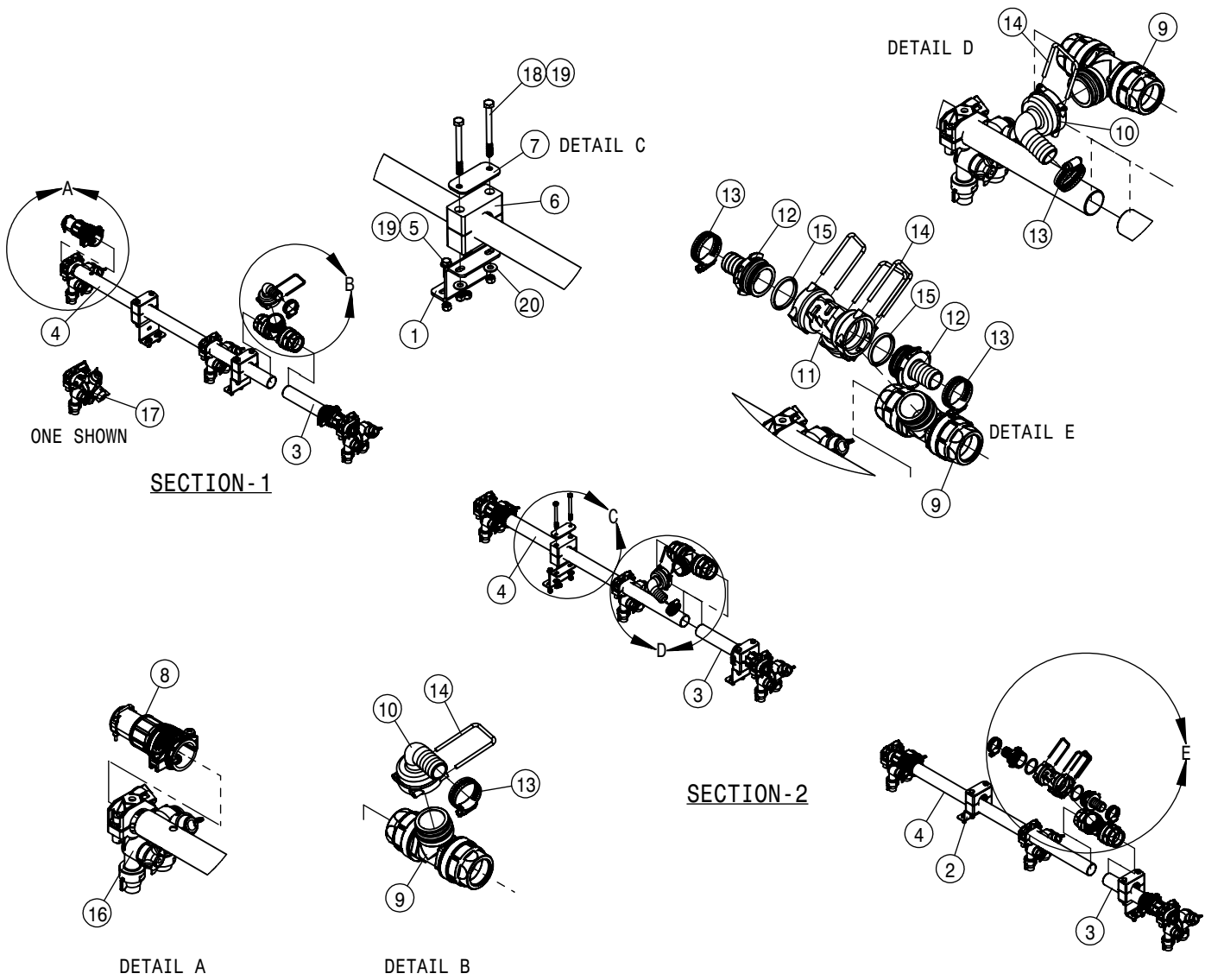
15" WET BOOM SPACING, SECTION 6-7 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	2	167225	15" WET BOOM TUBE, 65.66 LG
4	1	167228	15" WET BOOM TUBE, 80.66 LG
5	1	167229	15" WET BOOM TUBE, 50.66 LG
6	12	470118	1/4 UNC X 3/4 SER FLG BOLT
7	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	6	470376	COVER PLATE FOR 470375
9	4	500295	NOZZLE BODY END CAP
10	2	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	2	520090	HOSECLAMP NO 16 STAINLESS
13	2	737738	FORK, D.3 DIST.42 (737731)
14	20	737921	QUICK TJET 3-TIP BODY, 1" HV
15	12	900010	1/4UNC X 3" HEX BOLT
16	24	914000	1/4UNC HEX STOVER NUT
17	12	920000	1/4 SAE FLAT WASHER
18	20	737925	QUICK TJET 5 + 1-TIP BODY 1"



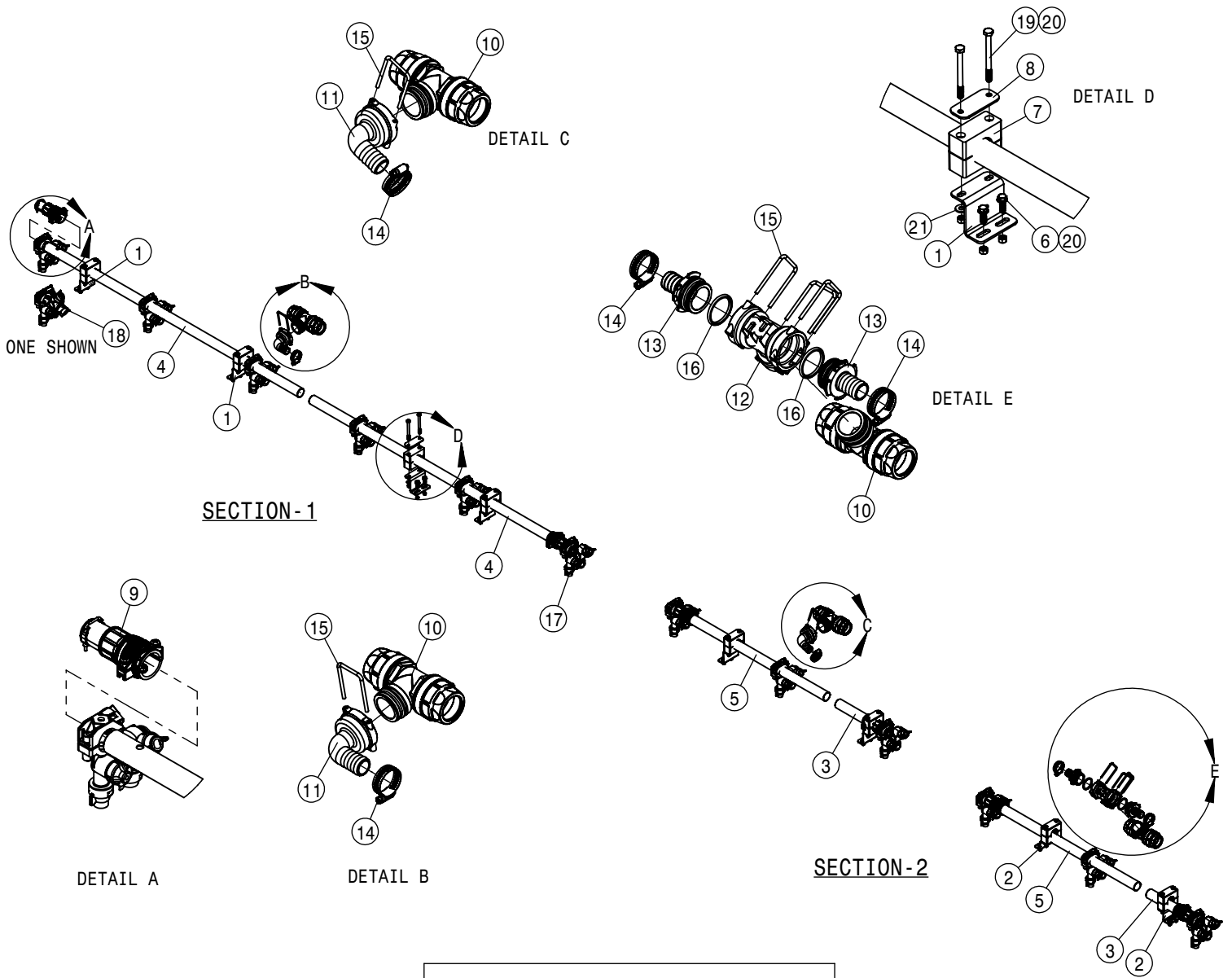
15" WET BOOM SPACING, SECTION 8-9 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167235	15" WET BOOM TUBE, 17.32 LG
4	3	167236	15" WET BOOM TUBE, 24.00 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	6	500295	NOZZLE BODY END CAP
9	3	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	1	500300	T5 FEMALE TEE
12	2	500301	T5 MALE TO 25MM HB
13	4	520090	HOSECLAMP NO 16 STAINLESS
14	5	737738	FORK,D.3 DIST.42 (737731)
15	2	737763	O-RING, 1 1/4"CONN EPDM
16	12	737921	QUICK TJET 3-TIP BODY,1" HV
17	12	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	12	900010	1/4UNC X 3" HEX BOLT
19	24	914000	1/4UNC HEX STOVER NUT
20	12	920000	1/4 SAE FLAT WASHER



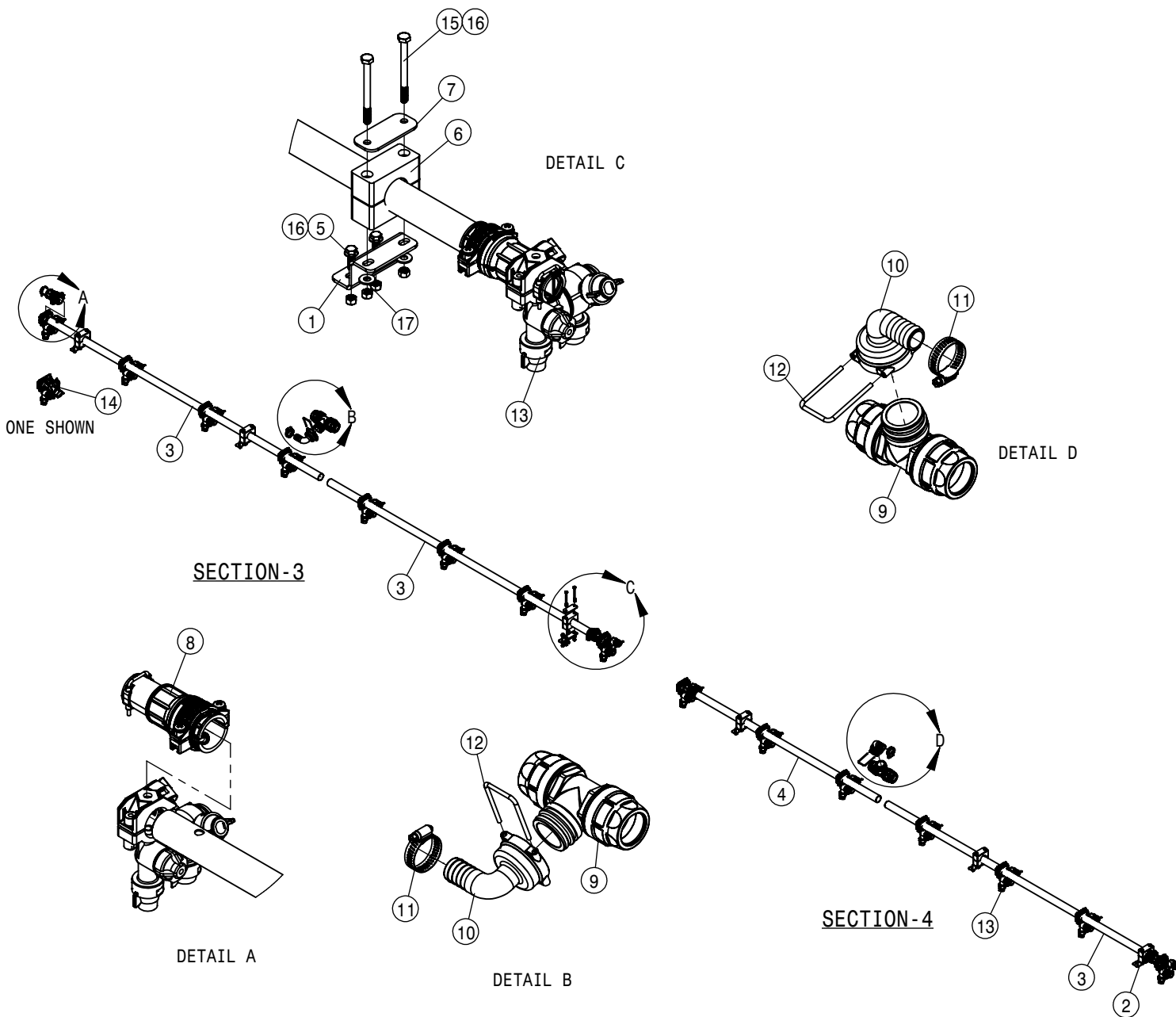
15" WET BOOM SPACING, SECTION 8-9 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167229	15" WET BOOM TUBE, 50.66 LG
4	2	167235	15" WET BOOM TUBE, 17.32 LG
5	2	167236	15" WET BOOM TUBE, 24.00 LG
6	16	470118	1/4 UNC X 3/4 SER FLG BOLT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	1	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	4	520090	HOSECLAMP NO 16 STAINLESS
15	5	737738	FORK, D.3 DIST.42 (737731)
16	2	737763	O-RING, 1 1/4" CONN EPDM
17	16	737921	QUICK TJET 3-TIP BODY, 1" HV
18	16	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	16	900010	1/4UNC X 3" HEX BOLT
20	32	914000	1/4UNC HEX STOVER NUT
21	16	920000	1/4 SAE FLAT WASHER



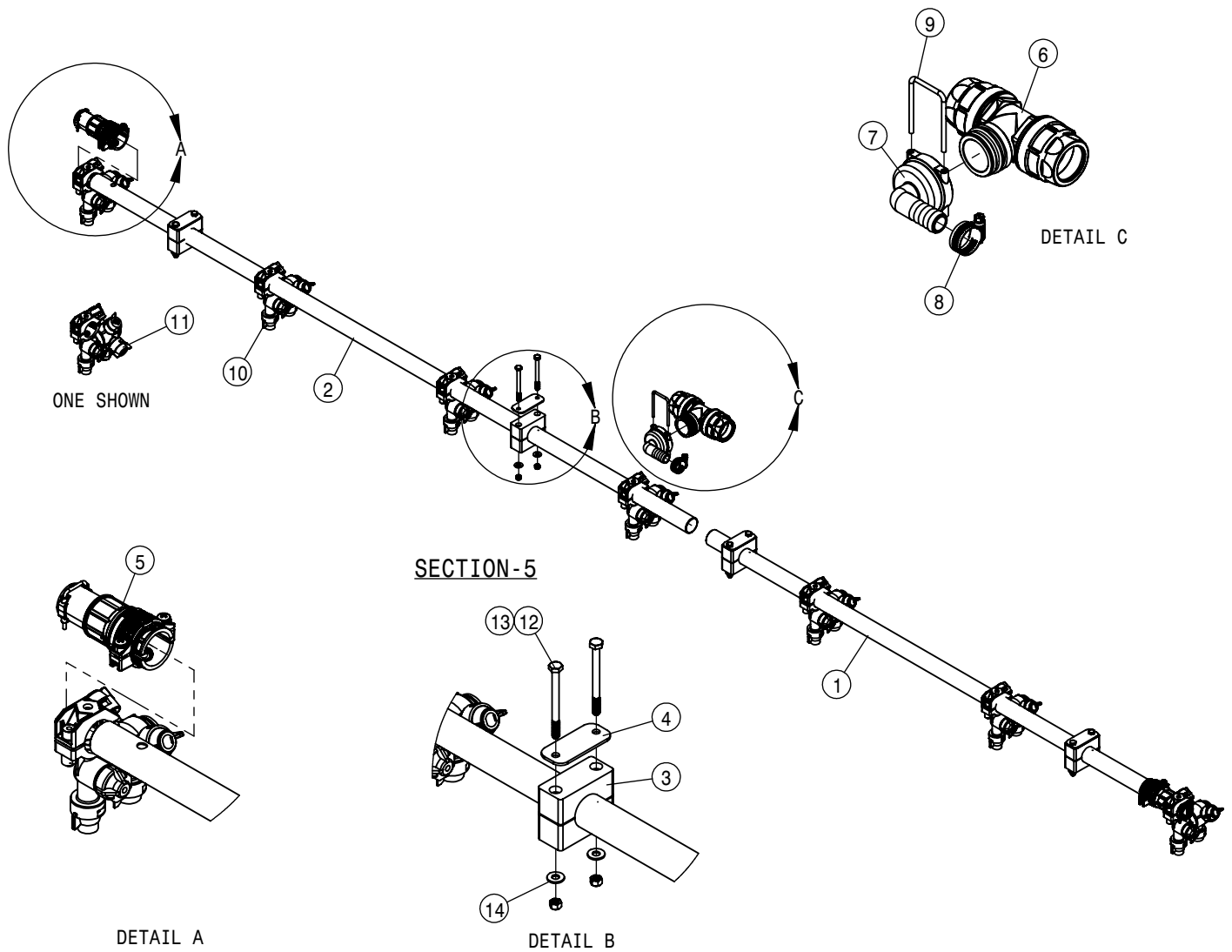
20" WET BOOM SPACING, SECTION 1-2 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167234	20" WET BOOM TUBE, 8.13 LG
4	3	167263	20" WET BOOM TUBE, 28.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	6	500295	NOZZLE BODY END CAP
9	3	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	1	500300	T5 FEMALE TEE
12	2	500301	T5 MALE TO 25MM HB
13	4	520090	HOSECLAMP NO 16 STAINLESS
14	5	737738	FORK,D.3 DIST.42 (737731)
15	2	737763	O-RING, 1 1/4"CONN EPDM
16	9	737921	QUICK TJET 3-TIP BODY,1" HV
17	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	12	900010	1/4UNC X 3" HEX BOLT
19	24	914000	1/4UNC HEX STOVER NUT
20	12	920000	1/4 SAE FLAT WASHER



20" WET BOOM SPACING, SECTION 1-2 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167234	20" WET BOOM TUBE, 8.13 LG
4	2	167238	20" WET BOOM TUBE, 48.13 LG
5	2	167263	20" WET BOOM TUBE, 28.13 LG
6	16	470118	1/4 UNC X 3/4 SER FLG BOLT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	1	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	4	520090	HOSECLAMP NO 16 STAINLESS
15	5	737738	FORK,D.3 DIST.42 (737731)
16	2	737763	O-RING, 1 1/4"CONN EPDM
17	15	737921	QUICK TJET 3-TIP BODY,1" HV
18	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	16	900010	1/4UNC X 3" HEX BOLT
20	32	914000	1/4UNC HEX STOVER NUT
21	16	920000	1/4 SAE FLAT WASHER

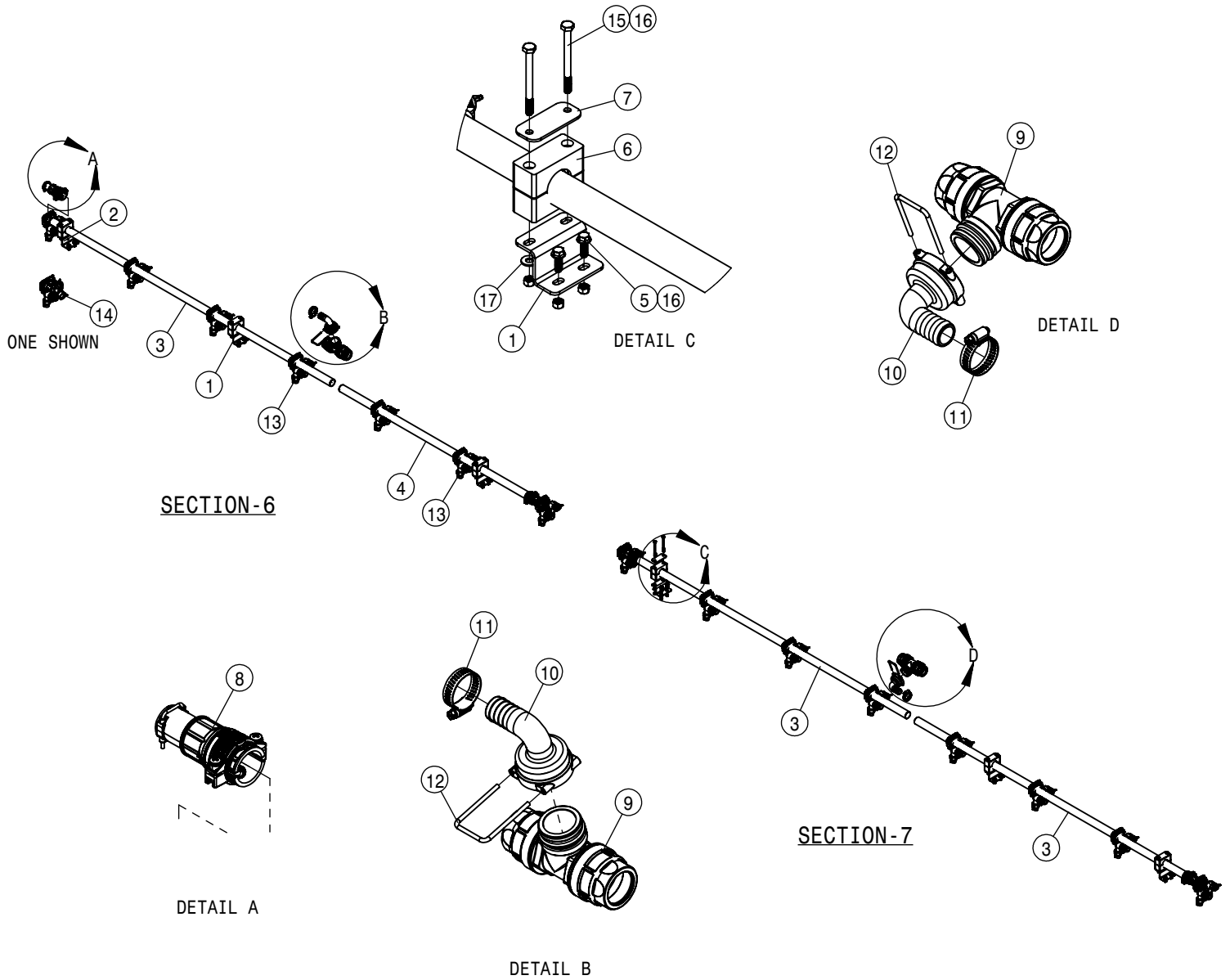


20" WET BOOM SPACING, SECTION 3-4 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	3	167230	20" WET BOOM TUBE, 68.13 LG
4	1	167238	20" WET BOOM TUBE, 48.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	4	500295	NOZZLE BODY END CAP
9	2	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK,D.3 DIST.42 (737731)
13	15	737921	QUICK TJET 3-TIP BODY,1" HV
14	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
15	12	900010	1/4UNC X 3" HEX BOLT
16	24	914000	1/4UNC HEX STOVER NUT
17	12	920000	1/4 SAE FLAT WASHER

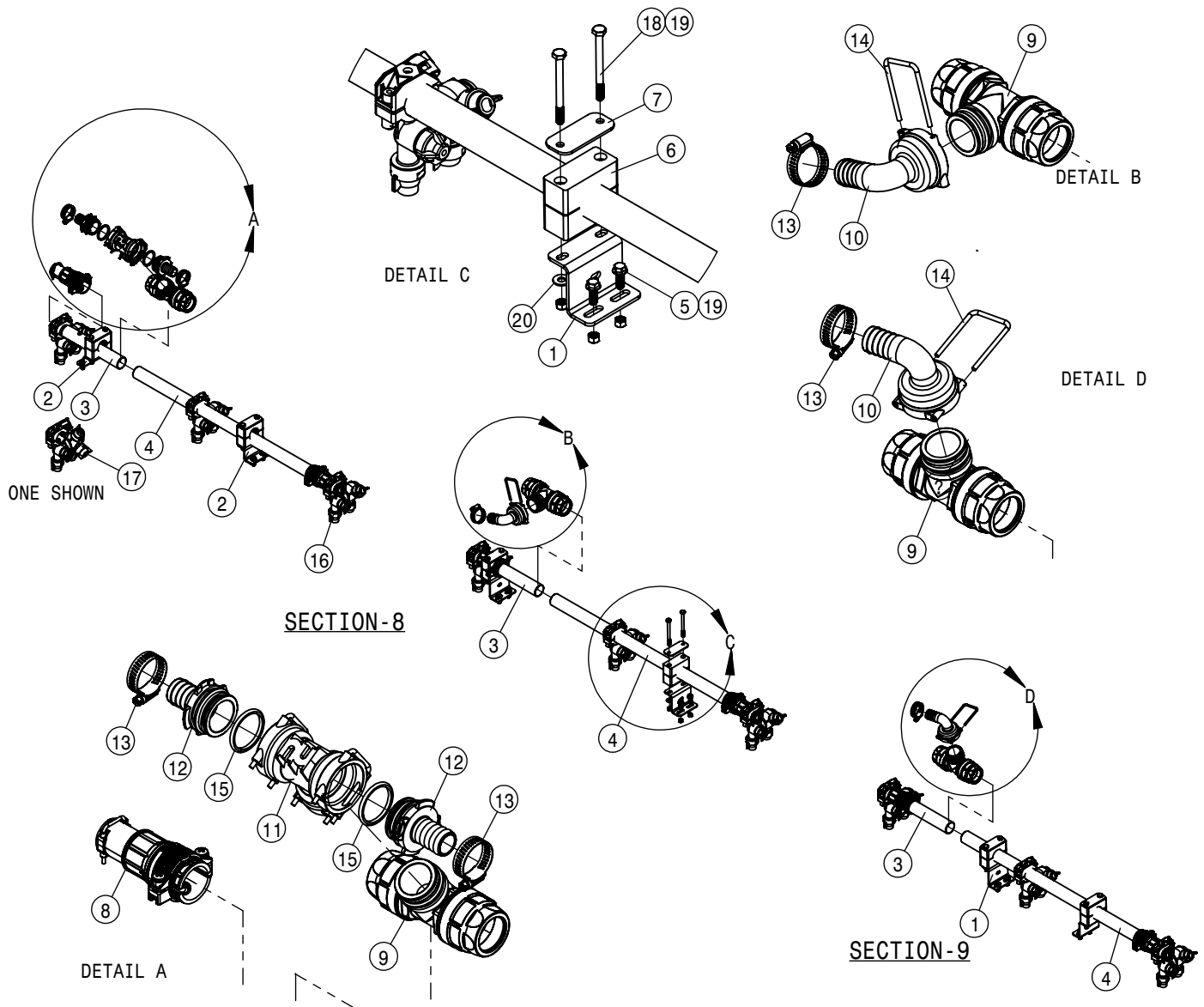


20" WET BOOM SPACING, SECTION-5 90/100 BOOM

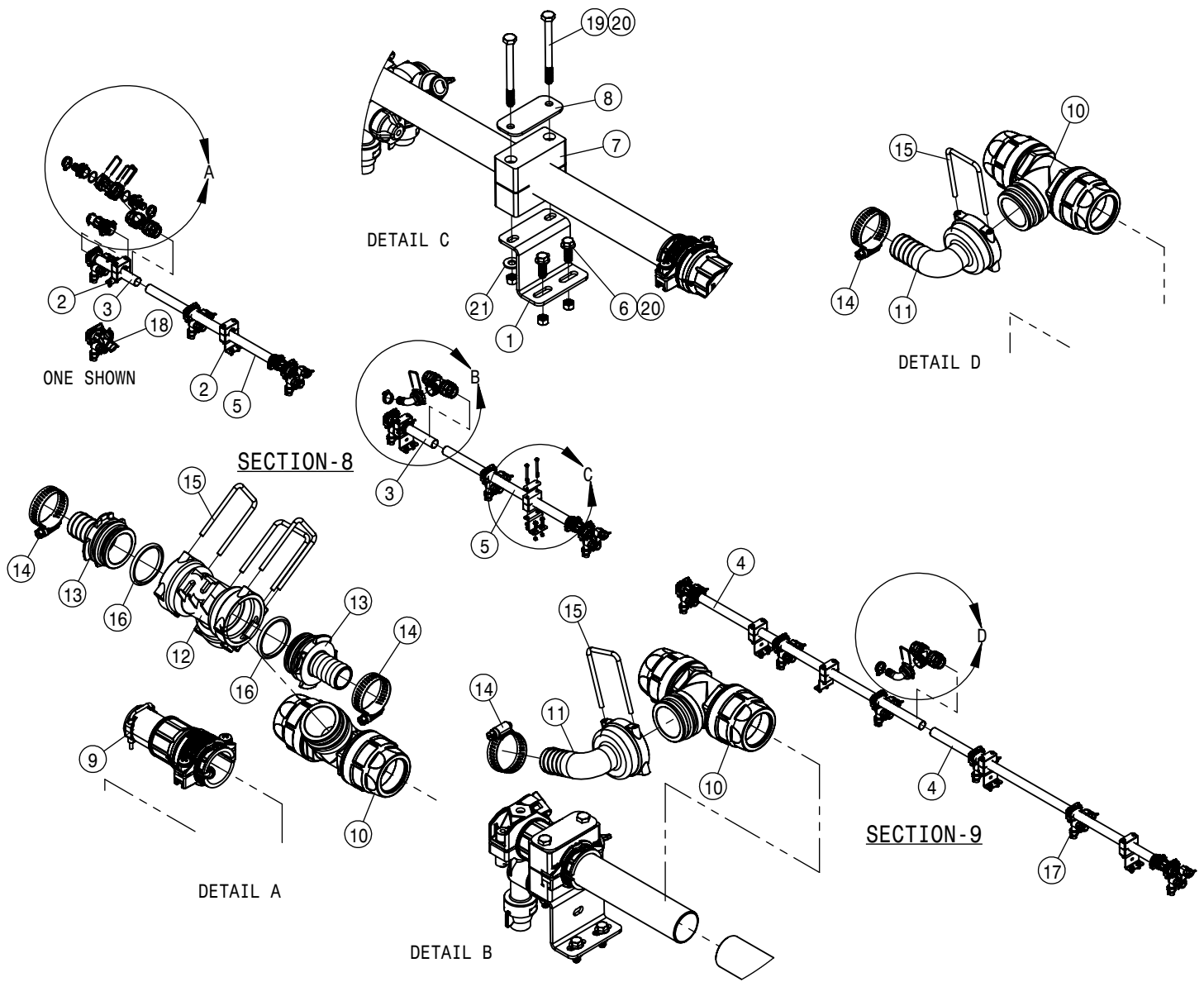
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	167237	20" WET BOOM TUBE, 65.66 LG
3	4	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	4	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500297	T5 TO 20MM HB 90
8	1	520080	HOSE CLAMP NO 10 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	7	737921	QUICK TJET 3-TIP BODY,1" HV
11	7	737925	QUICK TJET 5 + 1-TIP BODY 1"
12	8	900010	1/4UNC X 3" HEX BOLT
13	8	914000	1/4UNC HEX STOVER NUT
14	8	920000	1/4 SAE FLAT WASHER



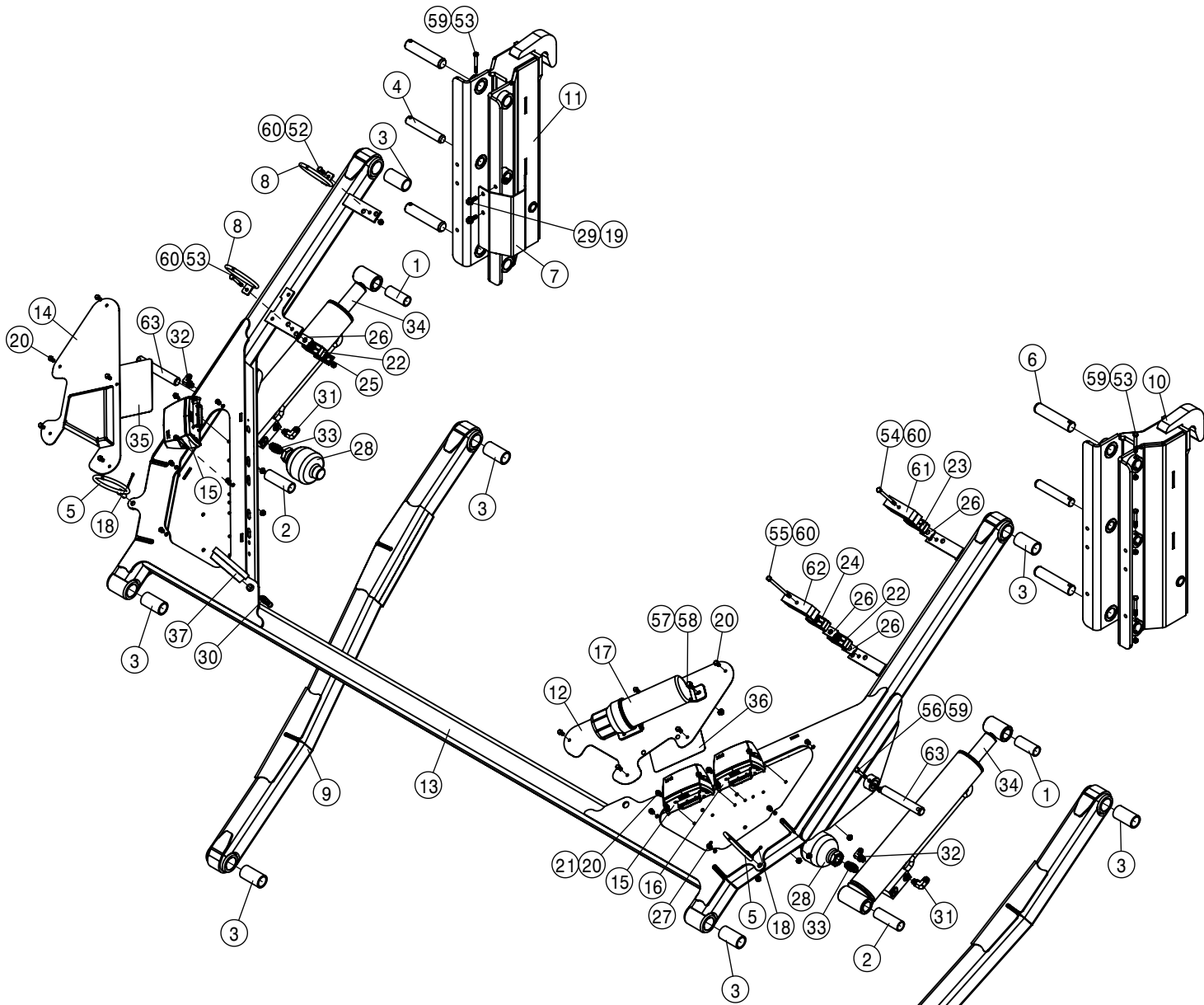
20" WET BOOM SPACING, SECTION 6-7 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	3	167230	20" WET BOOM TUBE, 68.13 LG
4	1	167238	20" WET BOOM TUBE, 48.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	4	500295	NOZZLE BODY END CAP
9	2	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK,D.3 DIST.42 (737731)
13	15	737921	QUICK TJET 3-TIP BODY,1" HV
14	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
15	12	900010	1/4UNC X 3" HEX BOLT
16	24	914000	1/4UNC HEX STOVER NUT
17	12	920000	1/4 SAE FLAT WASHER



20" WET BOOM SPACING, SECTION 8-9 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167234	20" WET BOOM TUBE, 8.13 LG
4	3	167263	20" WET BOOM TUBE, 28.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
7	6	470376	COVER PLATE FOR 470375
8	6	500295	NOZZLE BODY END CAP
9	3	500296	EASY FIT TEE 1" PIPE
10	2	500299	T5 TO 25MM HB 90
11	1	500300	T5 FEMALE TEE
12	2	500301	T5 MALE TO 25MM HB
13	4	520090	HOSECLAMP NO 16 STAINLESS
14	5	737738	FORK,D.3 DIST.42 (737731)
15	2	737763	O-RING, 1 1/4"CONN EPDM
16	9	737921	QUICK TJET 3-TIP BODY,1" HV
17	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	12	900010	1/4UNC X 3" HEX BOLT
19	24	914000	1/4UNC HEX STOVER NUT
20	12	920000	1/4 SAE FLAT WASHER



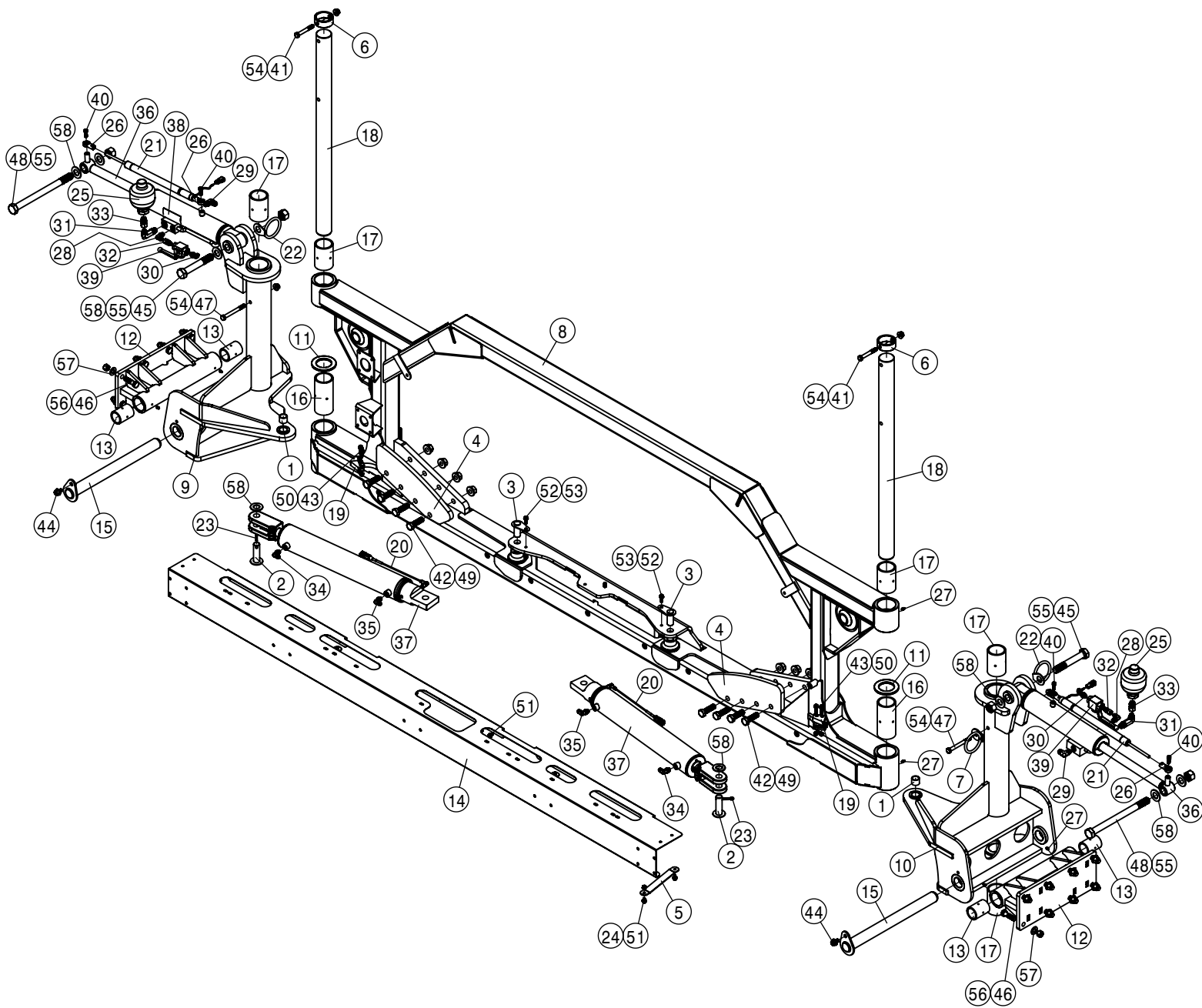
20" WET BOOM SPACING, SECTION 8-9 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167234	20" WET BOOM TUBE, 8.13 LG
4	2	167238	20" WET BOOM TUBE, 48.13 LG
5	2	167263	20" WET BOOM TUBE, 28.13 LG
6	16	470118	1/4 UNC X 3/4 SER FLG BOLT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	1	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	4	520090	HOSECLAMP NO 16 STAINLESS
15	5	737738	FORK,D.3 DIST.42 (737731)
16	2	737763	O-RING, 1 1/4"CONN EPDM
17	15	737921	QUICK TJET 3-TIP BODY,1" HV
18	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	16	900010	1/4UNC X 3" HEX BOLT
20	32	914000	1/4UNC HEX STOVER NUT
21	16	920000	1/4 SAE FLAT WASHER



LIFTARM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	121109	LIFT CYL BRG, 3.13 POLYGON
2	2	121115	LIFT CYL BRG, 4.00 POLYGON
3	8	121119	LIFTARM BEARING, POLYGON 09
4	2	164452	LIFT ARM MT PIVOT PIN
5	2	164517	HOSE SUPPORT RING WLD
6	4	165713	LIFT ARM MT PIV PIN,120'BM 09
7	1	165742	RECEPTACLE MT,STS BOOMS '12
8	2	165954	HOSE RING WLD
9	2	166587	LWR LIFT ARM WLDMT,120'BOOM 09
10	1	166600	QUICK ATTACH WLD LH OFFSET
11	1	166601	QUICK ATTACH WLD RH OFFSET
12	1	166610	UPR LIFT ARM COVER, 120
13	1	167032	UPPER LIFT ARM WLDMT,120'BM 11
14	1	167912	UPR LIFT ARM COVER RT WLD, 120
15	2	292086	IQAN-XA2 MODULE->611
16	1	292087	IQAN-XS2 MODULE>611
17	1	344017	MANUAL CANISTER W/NEOPREN SEAL
18	2	470046	COTTER PIN 5/32 X 1 1/2 SS
19	2	470087	3/8UNC HEX SERR FLANGE NUT
20	16	470118	1/4 UNC X 3/4 SER FLG BOLT
21	6	470121	1/4-20UNC HEX FLG NUT SER MC GR5
22	2	470274	TUBE CLAMP BODY, .750-.750
23	1	470275	TUBE CLAMP BODY, 1.00-1.000
24	1	470275	TUBE CLAMP BODY, 1.00-1.000
25	1	470276	CLAMP COVER PLATE,SNGL, 2.55LG

LIFTARM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
26	4	470281	STACK BOLT SAFETY LOCK PLATE
27	10	470383	1/4-20 NUTSERT .165-.260 STL
28	2	470444	ACCUM, DIAPHRAGM, 30CI 1508 PSI
29	2	470460	3/8UNC X 1 HHSFB GR5 MC
30	1	500128	1/4NPT-1/2 HOSE BARB, POLY
31	2	618249	3/4MJIC-90-9/16MOR LBO
32	2	618739	9/16MJIC-90-9/16MOR .065 CHK
33	2	618820	3/4MOR UNION
34	2	621640	HYD CYL, 3.25Z16.00X1.63
35	1	650412	RH BOOM DECAL 120'A'12
36	1	650413	LH BOOM DECAL 120'A'12
37	1	690359	PRESSURE GA GLYCERI 100 PSI
NS	2	693128	NORAC UC5 NETWORK 2-WAY CPLR
NS	1	693131	NORAC UC5 NETWORK CPLR, 8-WAY
NS	1	693135	NORAC CABLE, STS BM DISCNT, 150"
NS	2	693146	NORAC UC5 2-WAY CPLR W/TRMNTOR
NS	2	693147	NORAC UC5 NETWORK CPLR, 3-WAY
NS	3	693741	CABLE UC5 NETWORK 14 AWG 1M
NS	1	693749	UC5 CABLE, VALVE
NS	1	693750	UC5 INTERFACE CABLE
NS	2	693752	UC5 NETWORK 2 PIN PLUG
NS	1	693757	UC5 NETWORK CABLE,14 AWG .5M
NS	1	693759	INSTALL MANUAL UC5,HG06,STS
NS	2	693800	UC5 NETWORK 6PIN PLUG
NS	2	693805	CABLE,UC5 NETWORK 14 AWG 15M

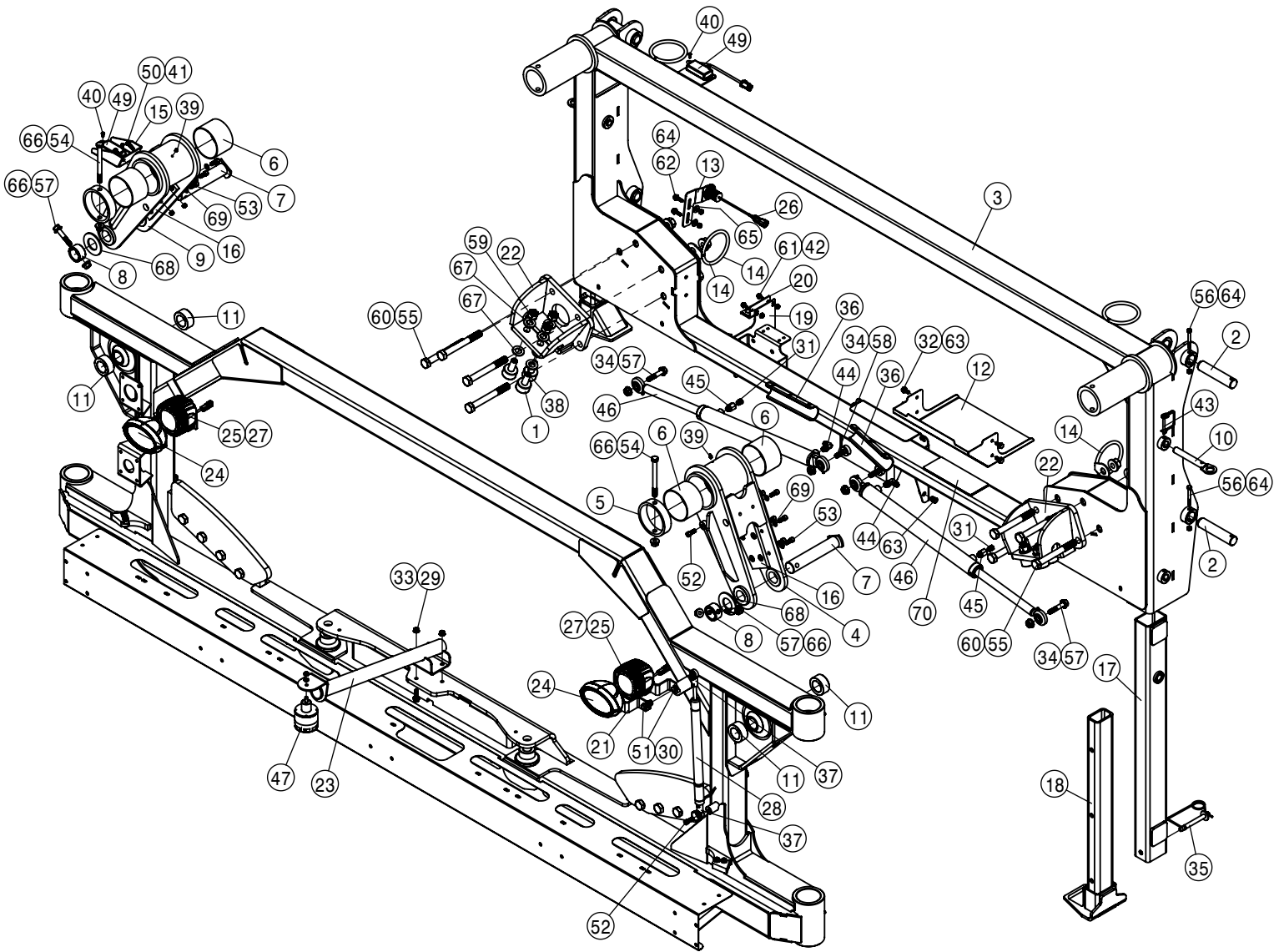
LIFTARM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
NS	2	693806	CABLE,UC5 12 AWG 7M
52	1	900489	5/16UNC X 1 HHCS SS
53	5	900494	5/16UNC X 2 1/2 HHCS SS
54	1	900500	5/16UNC X 4 1/4 HHCS SS
55	1	900502	5/16UNC X 5 1/2 HHCS SS
56	4	900503	5/16UNC X 2 1/4 HHCS SS
57	2	910119	5/16-18UNC HEX FLG NUT SER SS
58	2	910126	5/16UNC X 1 HHSFB SS
59	8	910132	5/16-18UNC NYLOCK NUT SS
60	4	914002	5/16UNC HEX STOVER NUT
61	1	A51729	TUBE CLAMP (PAIR)
62	1	A51729	TUBE CLAMP (PAIR)
63	2	A53739	LIFT CYL PIN, BARREL PIN, DELTA



TRANSM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	121126	BEARING,1.00-1.25-1.10 POLYGON
2	2	164498	BOOM FOLD CYL PIN WLD
3	2	166127	TRANSM PIN WLD 1", A10
4	2	166566	ROLLER GUIDE PLATE, 120
5	6	166694	CENTER SOLN SUB MNT STRAP, 120
6	2	166932	PIVOT PIN RET RING, 120
7	1	166983	HOSE SUPPORT RING WLD
8	1	166989	TRANSM PIVOT WLDMT, 120
9	1	167014	RH TRANSM PIVOT WLD
10	1	167015	LH TRANSM PIVOT WLD
11	2	167030	THRUST WASH PIVOT TUBE, 120'ALUM
12	2	167036	ALUM BOOM SECT 1 ADPTR WLD
13	4	167041	FIBER BUSH, ADPTR PLATE 120'ALUM
14	1	167042	CTR SCT SOLU MT CHANNEL
15	2	167043	LEVEL PIN WLD 120'ALUM
16	2	167046	BEARING,2.51-2.99-6.38 POLYGON
17	6	167047	BEARING,2.51-2.99-4.25 POLYGON
18	2	167048	SHAFT, INNER TRANS PIVOT 120'ALUM
19	2	169131	MECH FOLD STOP, 120 AL
20	2	291994	SENSOR HARNESS FOR AWS

TRANSM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
21	2	294330	LINEAR POSITION SENSOR, 250mm
22	2	438302	HOSE SUPPORT RING WLD W/WASHER
23	2	470047	COTTER PIN 5/16 X 2 SS
24	6	470113	5/16UNC SERR FLG LOCK NUT
25	2	470444	ACCUM, DIAPHRAGM, 30CI 1508 PSI
26	4	470628	BALL END,9.9MM BORE X 10MM THD
27	10	471005	GREASE ZERK, 1/4-28 X 1/2
28	2	618119	9/16MJIC-90-9/16MOR LBO
29	2	618249	3/4MJIC-90-9/16MOR LBO
30	2	618425	9/16MJIC-45-9/16MOR LBO
31	2	618443	3/4MJIC-90-3/4MOR EX LG LBO
32	2	618668	9/16FJIC SWIV-9/16MOR ADPTR
33	2	618669	3/4FJIC SWIV-3/4MOR ADPTR
34	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
35	2	618739	9/16MJIC-90-9/16MOR .065 CHK
36	2	621642	HYD CYL, 3.00X9.00X1.38
37	2	621656	HYD CYL,3.50X19.75X1.75
38	2	650390	DECAL,DANGER, DO NOT MOD ACCUM
39	2	696131	HIGH PRESSURE BALL VALVE
40	4	900172	3/8UNC X 1"SOC HD CAP SCR,ZINC

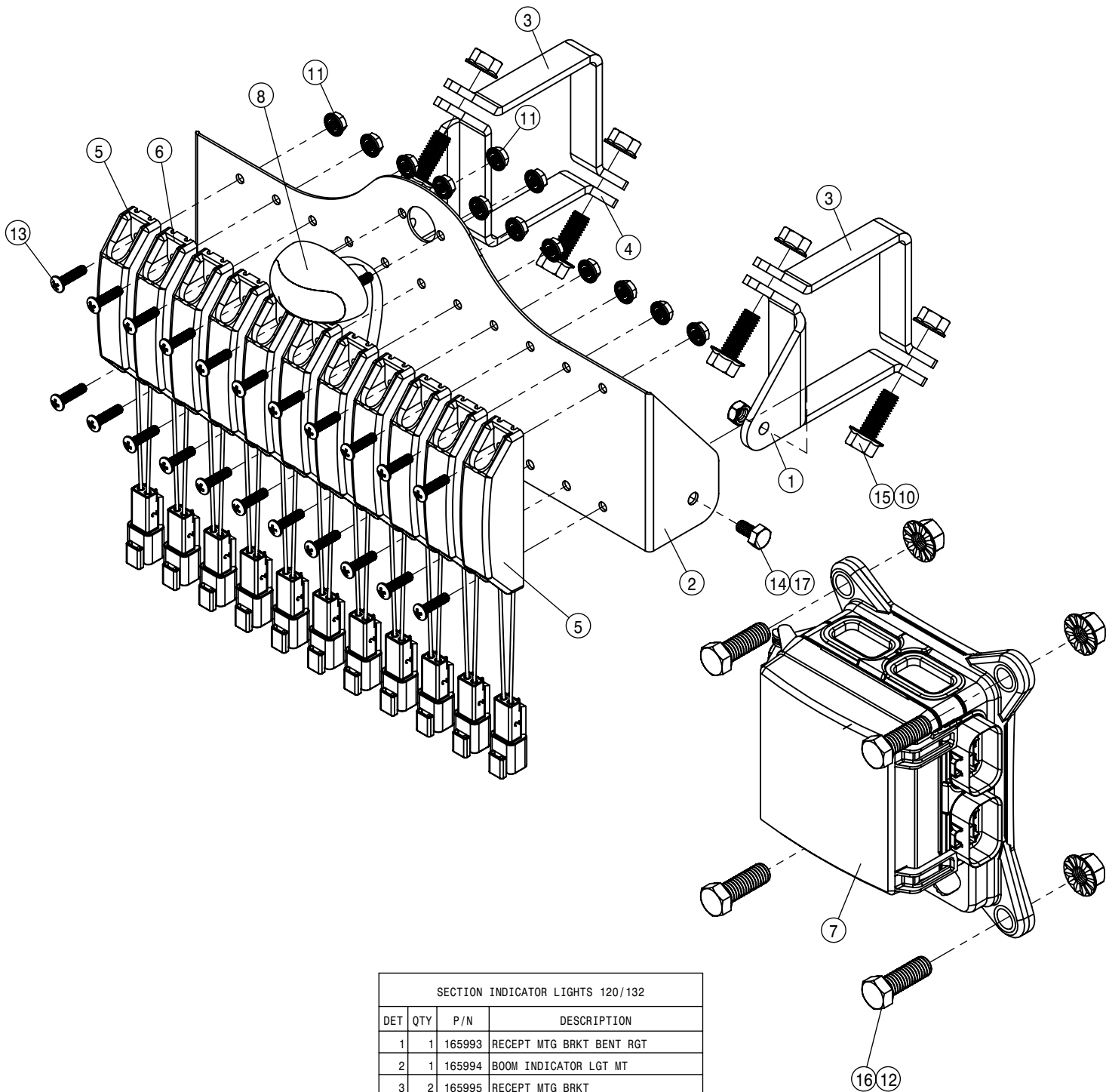
TRANSM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
41	2	900272	1/2UNC X 3 1/2 HEX BOLT
42	8	900404	3/4UNC X 2 1/2 HEX BOLT
43	4	900490	5/16UNC X 1 1/4 HHSFB SS
44	2	900515	1/2UNC X 3/4 HHSFB GR5 MC
45	2	900851	1" UNC X 6 1/2" HEX BOLT GR8 YZ
46	16	900857	5/8UNC X 2 1/4 HEX BOLT GR8
47	2	900863	1/2UNC X 4 3/4 HEX BOLT GR 8 YZ
48	2	900869	1" UNC X 13" HEX BOLT GR8 YZ
49	8	910111	3/4-10UNC CTRLK FLG NUT MC GR5
50	4	910119	5/16-18UNC HEX FLG NUT SER SS
51	19	910125	5/16UNC X 1/2 HHSFB SS
52	2	910126	5/16UNC X 1 HHSFB SS
53	2	914002	5/16UNC HEX STOVER NUT
54	4	914015	1/2-13UNC CTRLK FLG NUT MC GR5
55	4	914016	1" UNC HEX STOVER NUT
56	16	914810	5/8UNC HEX STOVER NUT GR8
57	16	920005	5/8 SAE FLAT WASHER
58	8	920008	1" SAE FLAT WASHER



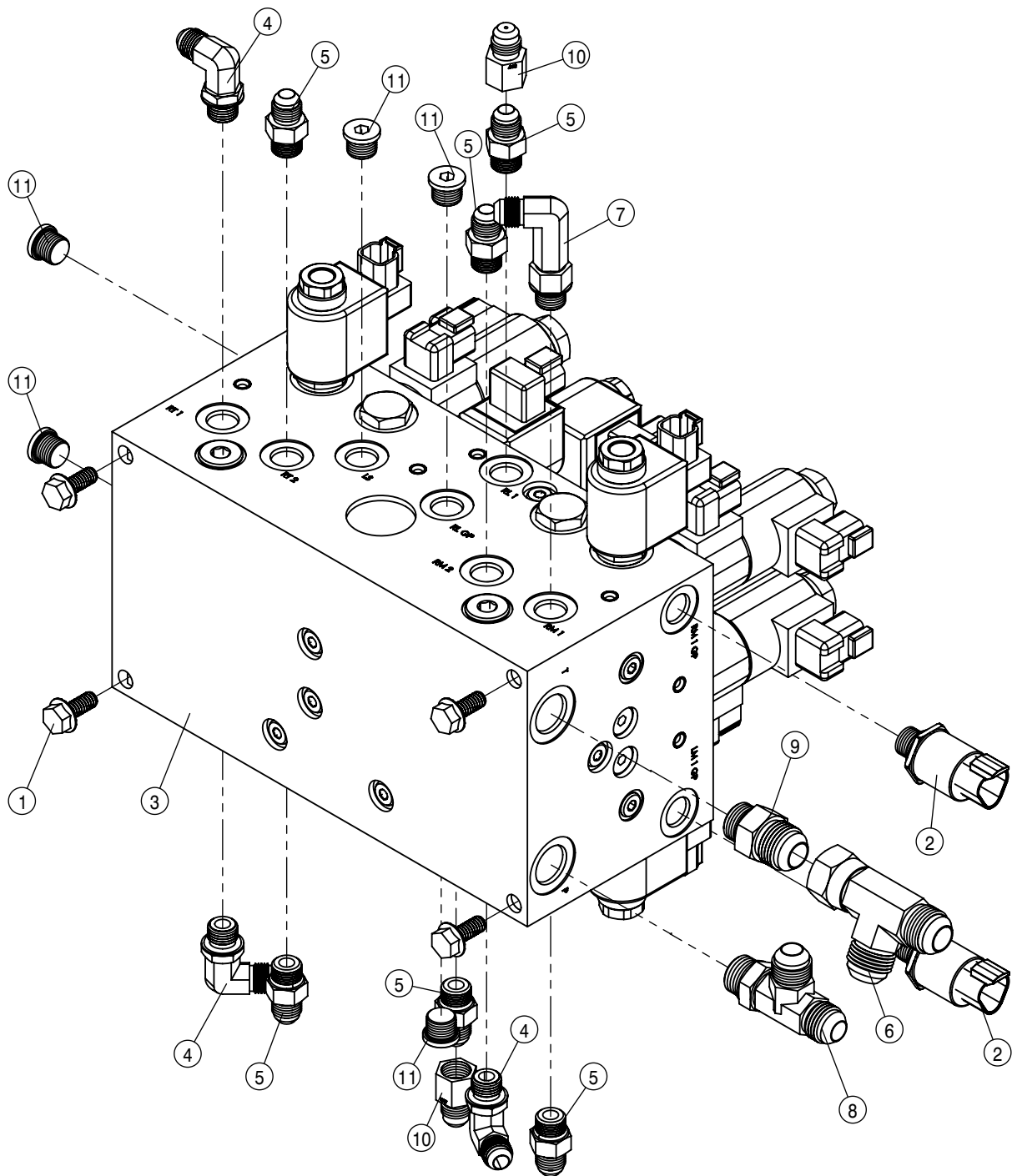
TRANSOM PIVOT ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	6	125058	TRACK ROLLER, 1.750D, .75-16THD
2	4	165713	LIFT ARM MT PIV PIN, 120'BM 09
3	1	166001	TRANSOM FIXED, HYBRID W/DECAL
4	1	166544	PENDULUM-WLD LH, TRANSOM
5	2	166552	RET RING-PENDULUM, 120
6	4	166591	POLYGON BRG 4.0ID X 2.72LG X 1/8WA
7	2	166611	LWR PENDULUM PIN, 120
8	2	166697	PEND RETNR BUSH, 120
9	1	166698	PENDULUM-WLD RH, TRANSOM
10	2	166772	BM STND PIN WLD, 120
11	4	166861	SPCR BUSHING, BALL JOINT, 120
12	1	166871	MANIFOLD GUARD WLD, 120
13	1	166874	FRMD PROX BRKT, LIFT, 120
14	2	166903	HOSE RING WLD, 4" X 3/4"
15	1	166915	NORAC ROLL SENS WLD, 120
16	2	166938	PENDULUM WEAR PLT, 120
17	2	167055	BOOM STAND OTR TUBE WLD, 120'ALUM
18	2	167057	BOOM STAND INR TUBE WLD, 120'ALUM
19	1	167178	UC5 MTG BRKT
20	1	167179	CLAMP UC5 BRKT
21	4	167253	LIGHT EXTENSION MOUNT
22	2	167305	ROLLER MNT WLD, 120A, 15'
23	1	167310	NORAC MNT WLD CTR, 120
24	2	292614	WORK LIGHT, HALOGEN FLOOD '14

TRANSOM PIVOT ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
25	2	292618	WORKLIGHT-TYRI LED FLOOD
26	1	292927	INDUCTIVE PROX SENSOR, 30MM
27	2	294299	TYRI JUMPER HARNESS
28	1	294330	LINEAR POSITION SENSOR, 250mm
29	2	470087	3/8UNC HEX SERR FLANGE NUT
30	4	470087N	3/8UNC HEX SERR FLG NUT YZ
31	2	470114	BREATHER FILTER SENSOR, 1/4 NPT
32	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT
33	1	470329	3/8UNC X 1 1/4 HHSFB GR5 MC
34	4	470345	1/2UNC SMTH FLG HEX LOCK NUT
35	2	470361	SNAP LOCK PIN, 1/2 X 3 1/2
36	2	470369	HOSE PROTECTOR, 8" BLACK
37	2	470628	BALL END, 9.9MM BORE X 10MM THD
38	6	471001	GREASE ZERK, 3/16 DRIVE-IN
39	2	471005	GREASE ZERK, 1/4-28 X 1/2
40	4	472236	#10-32 UNF X 1/2 PHMS PH ZN
41	2	473001	5/16UNC HEX NUT, NYLOC
42	4	473832	1/4-20UNC HEX FLG NUT SER SS
43	2	473895	1/4 X 1 3/4 LINCHPIN
44	2	618119	9/16MJIC-90-9/16MOR LBO
45	2	618123	9/16MOR-1/4FNPT ADPTR
46	2	621661	1.50X16.00X1.00 ROLL LOCK CYL
47	1	693113	SENSOR, NORAC UC5 ULTRASONIC
NS	1	693147	NORAC UC5 NETWORK CPLR, 3-WAY

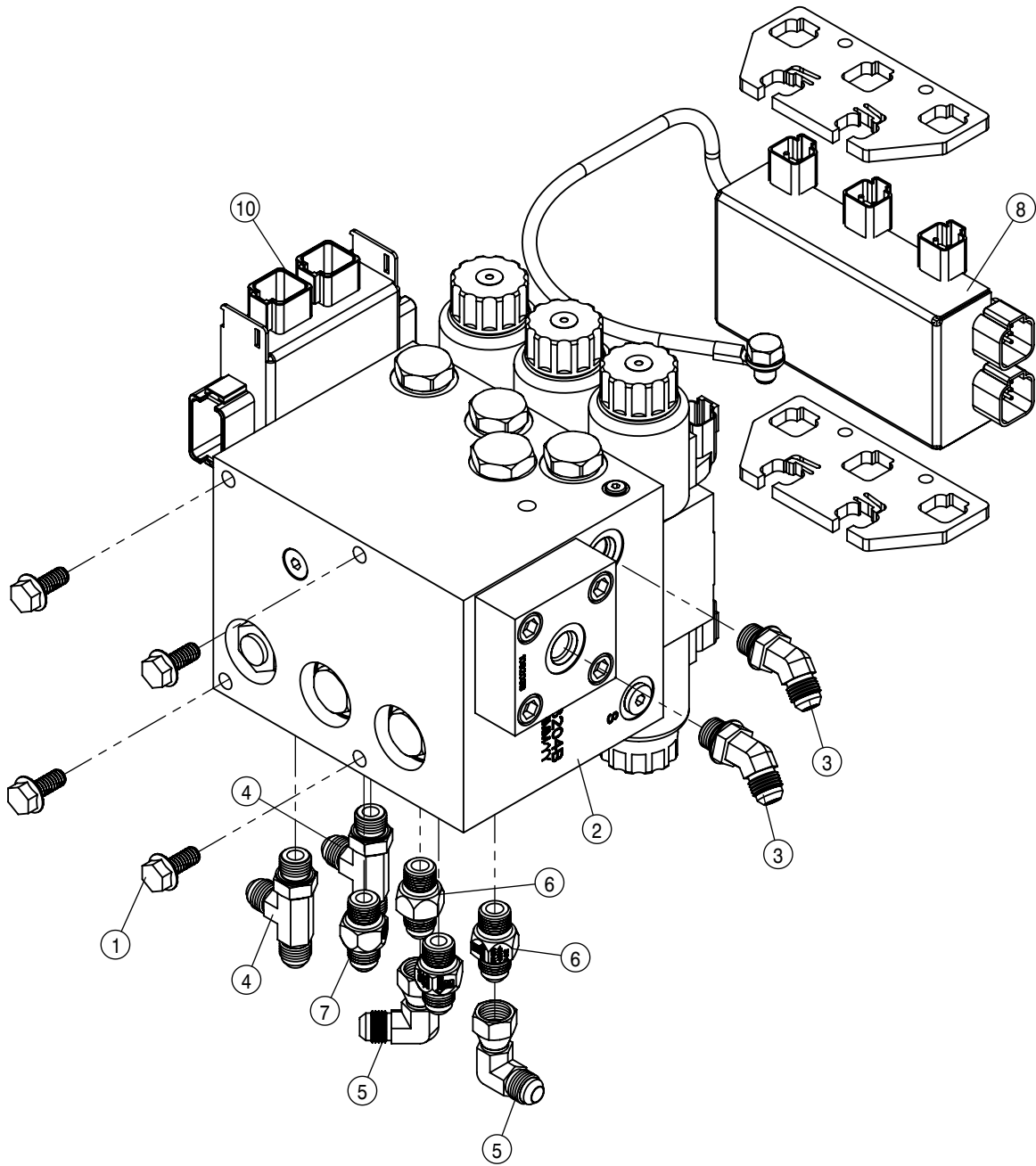
TRANSOM PIVOT ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
49	2	693165	NORAC UC5 ROLL SENSOR
50	2	900065	5/16UNC X 1" HEX BOLT
51	4	900128N	3/8UNC X 3/4 SER FLANGE BOLT
52	2	900172	3/8UNC X 1"SOC HD CAP SCR,ZINC
53	12	900173	3/8UNC X 7/8SOC HD CAP SCR,ZNC
54	2	900277	1/2UNC X 5 1/2 HEX BOLT
55	8	900416	3/4UNC X 6 1/2 HEX BOLT
56	4	900494	5/16UNC X 2 1/2 HHCS SS
57	4	900520	1/2UNC X 2 1/2 HHSFB GR5 MC
58	2	900842	1/2UNC X 2 1/2 HEX BOLT GR8 YZ
59	6	910013	3/4UNF HEX NUT
60	16	910111	3/4-10UNC CTRLK FLG NUT MC GR5
61	4	910122	1/4UNC X 1/2 HHSFB SS
62	2	910126	5/16UNC X 1 HHSFB SS
63	4	910128	5/16-18 NUTSER .027-.150 STL
64	6	910132	5/16-18UNC NYLOCK NUT SS
65	2	910133	USS FLAT WASHER 5/16 BZ
66	4	914015	1/2-13UNC CTRLK FLG NUT MC GR5
67	12	920006	3/4 SAE FLAT WASHER
68	2	920013	1 1/2 SAE FLAT WASHER
69	12	920502	3/8 LOCK WASHER
70	1	HXE28534	LABEL, HYDRAULIC ENGLISH



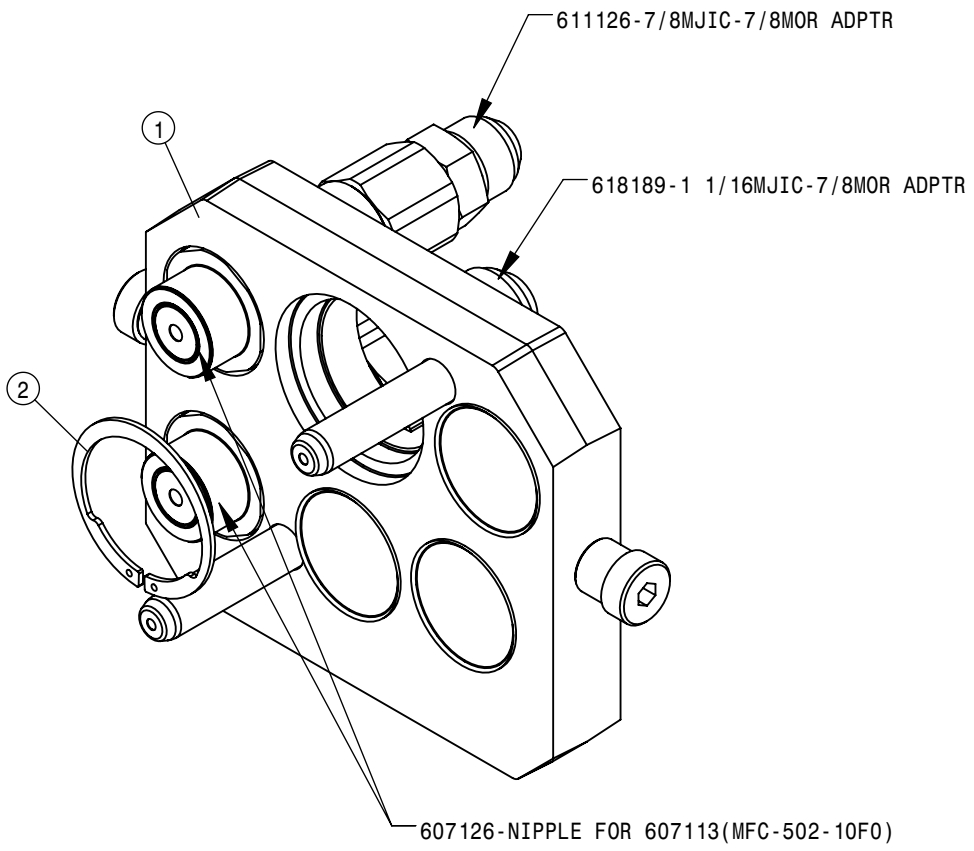
SECTION INDICATOR LIGHTS 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	165993	RECEPT MTG BRKT BENT RGT
2	1	165994	BOOM INDICATOR LGT MT
3	2	165995	RECEPT MTG BRKT
4	1	165996	RECEPT MTG BRKT BENT LFT
5	2	291325	AMBER LAMP, 4" DT DEUTSCH
6	9	291326	RED LAMP, 4" DT DEUTSCH
7	1	292708	MVEC
8	1	293817	MASTER SPRAY LIGHT, STS 05
NS	1	294284	SPRAY SECTION LIGHT HARNESS
10	4	470087N	3/8UNC HEX SERR FLG NUT YZ
11	24	470175	10-32 SERR FLANGE NUT
12	4	470325	7/16 UNC SERR FLG HEX NUT
13	24	472235	10-32 X 3/4 PHIL HD MACH SCR
14	2	900000	1/4UNC X 1/2 HEX BOLT
15	4	900129N	3/8UNC X 1" SERR FLANGE BOLT
16	4	900196	7/16UNC X 1 1/4 HEX BOLT
17	2	910000	1/4UNC HEX NUT



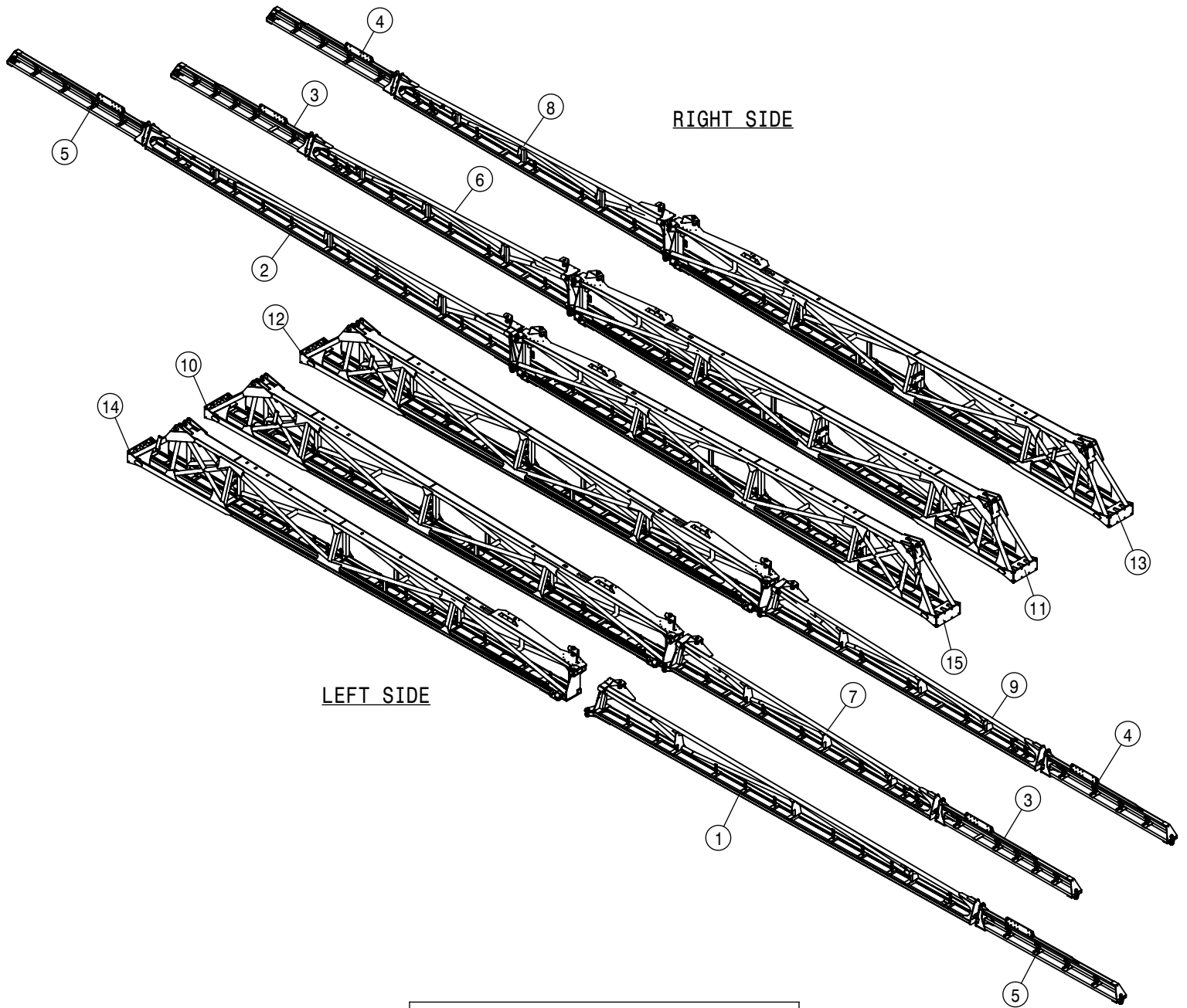
FOLD CONTROL VALVE ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT
2	2	606347	PRESSURE TRANSDUCER, 7500PSI
3	1	606527	FOLD MANIFOLD, 120'A STS' 14
4	3	618119	9/16MJIC-90-9/16MOR LBO
5	6	618126	9/16MJIC-9/16MOR ADPTR
6	1	618333	7/8FJIC SW RUN TEE-7/8MJIC
7	1	618440	9/16MJIC-90-9/16MOR EX LG LBO
8	1	618494	3/4MOR RUN TEE-3/4MJIC
9	1	618574	7/8MJIC-3/4MOR ADPTR
10	2	618735	9/16JIC .062 ORIFICE ADPTR
11	5	618754	9/16 MOR PLUG, HEX SOCKET



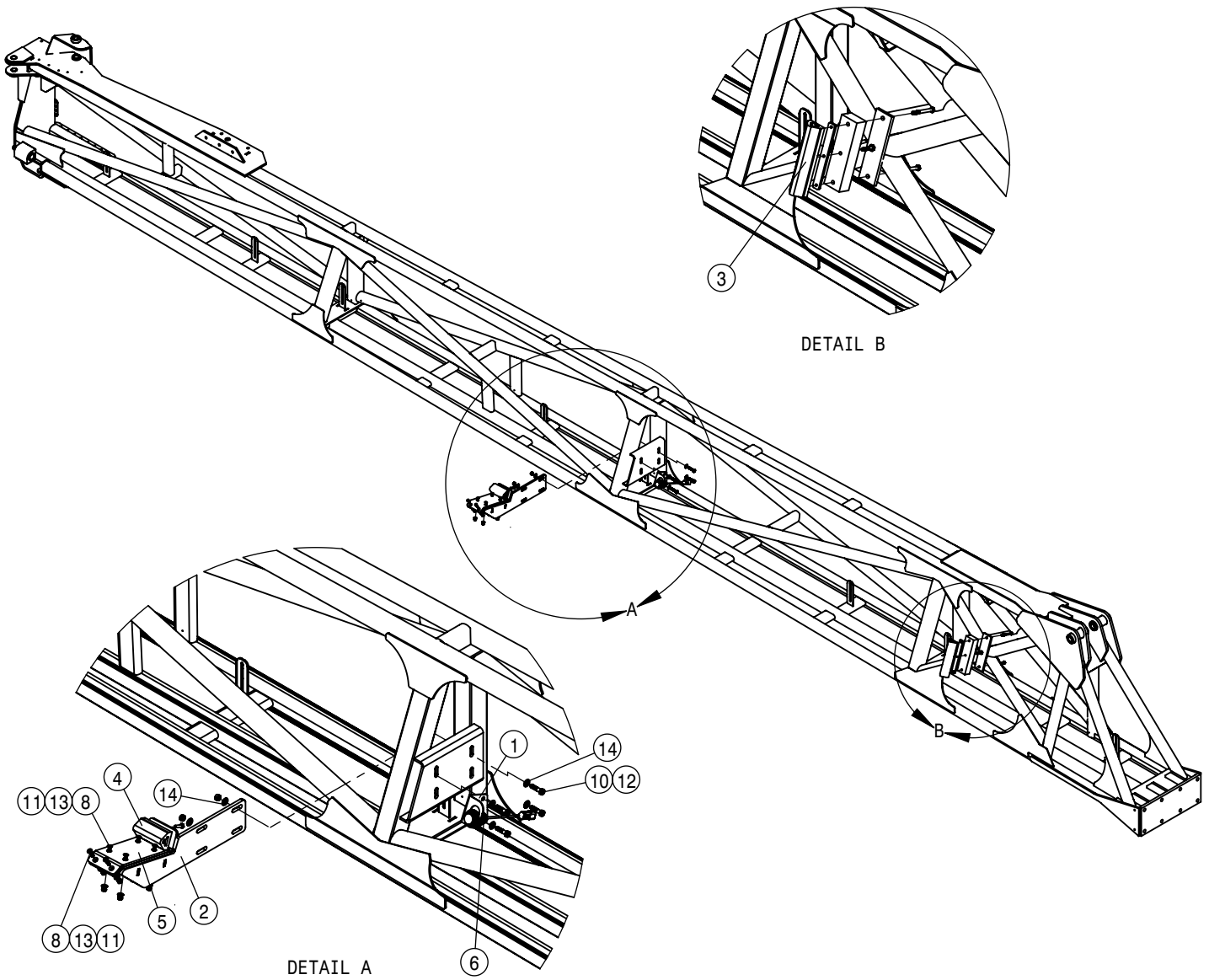
NORAC HYDRAULIC VALVE ASSEMBLY				
DET	QTY	P/N	DESCRIPTION	
1	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT	
2	1	606456	NORAC HYD VALVE (44960D)	
3	2	618425	9/16MJIC-45-9/16MOR LBO	
4	2	618444	9/16MOR RUN TEE-9/16MJIC	
5	2	618618	9/16MJIC-90-9/16FJIC SWIV LBO	
6	2	618884	9/16MJIC-9/16MOR.042MFMO ADPTR	
7	2	618885	9/16MJIC-9/16MOR.055MOMF ADPTR	
8	1	693133	NORAC MODULE, UC5 VALVE	
NS	1	693147	NORAC UC5 NETWORK CPLR, 3-WAY	
10	1	693751	UC5 INPUT PASS THRU MODULE	



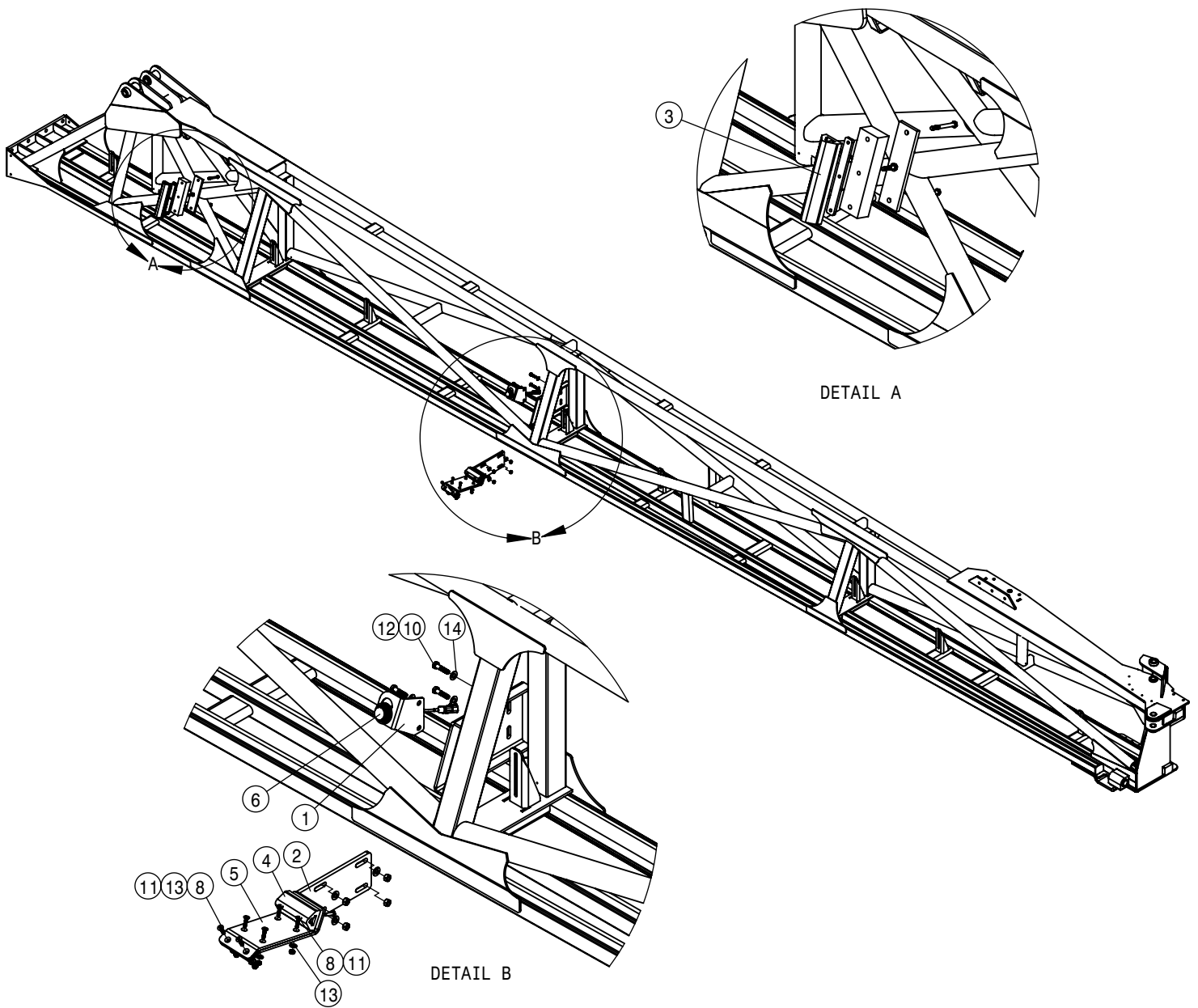
MULTICOUPLER ASSEMBLY 90/100/120/132			
DET	QTY	P/N	DESCRIPTION
1	1	607114	MOBILE HALF COUPLER ASSY, 0502
2	1	629546	SNAP RING, 1.637 EXTERNAL



BOOM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	167816	LH BOOM WLD, SECT 2,22,132,16
2	1	167817	RH BOOM WLD, SECT 2,22,132,16
3	2	167818	BREAKAWAY ASSY, 15 ON
4	2	167819	BREAKAWAY ASSY, 20 ON
5	2	167820	BREAKAWAY ASSY, 22 ON
6	1	167845	RH BM, SECT-2 15" 120' W/DECAL
7	1	167846	LH BM, SECT-2 15" 120' W/DECAL
8	1	167847	RH BM, SECT-2 20" 120' W/DECAL
9	1	167848	LH BM, SECT-2 20" 120' W/DECAL
10	1	169434	LH SECT-1 120-15 REINF W/DECAL
11	1	169435	RH SECT-1 120-15 REINF W/DECAL
12	1	169436	LH SECT-1 120-20 REINF W/DECAL
13	1	169437	RH SECT-1 120-20 REINF W/DECAL
14	1	169459	LH SECT-1 132-22 REINF W/DECAL
15	1	169461	RH SECT-1 132-22 REINF W/DECAL



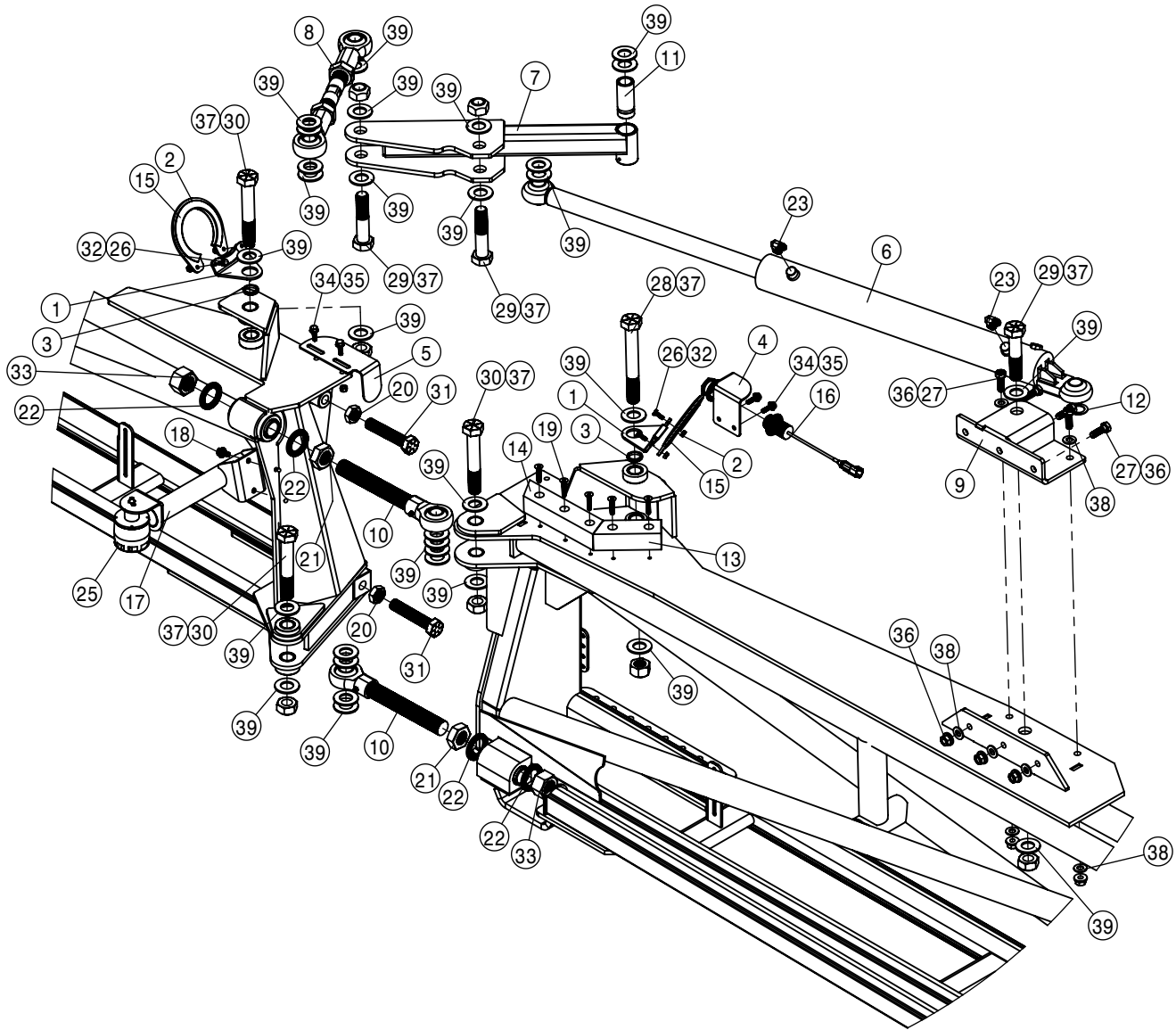
RIGHT INNER BOOM ASSEMBLY 120/132				
DET	QTY	P/N	DESCRIPTION	
1	1	167071	RH PROX MT, SECT 1-2 OTR 120'A'12	
2	1	167094	RH ARM BRKT SHELF WLD 120'A'12	
3	1	167102	BOOM BUMPER ASSY 120'A'12	
4	1	167111	ARM BRKT SHELF BUMPER 120'A'12	
5	1	167112	ARM BRKT SHELF PAD 120'A'12	
6	1	292927	INDUCTIVE PROX SENSOR, 30MM	
NS	1	294347	HARNES,RH MAIN 120 BOOM	
8	6	472284	1/4-28 UNF X 1 FHSCS GR5 B0	
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12	
10	4	900858	3/8UNC X 1 1/2 HHCS GR8 MC	
11	6	914001	1/4-28UNF STOVER NUT MC GR5	
12	4	914004	3/8-16UNC STOVER NUT MC GR5	
13	6	920000	SAE FLAT WASHER 1/4 MC	
14	8	920002	SAE FLAT WASHER 3/8 MC	



DETAIL A

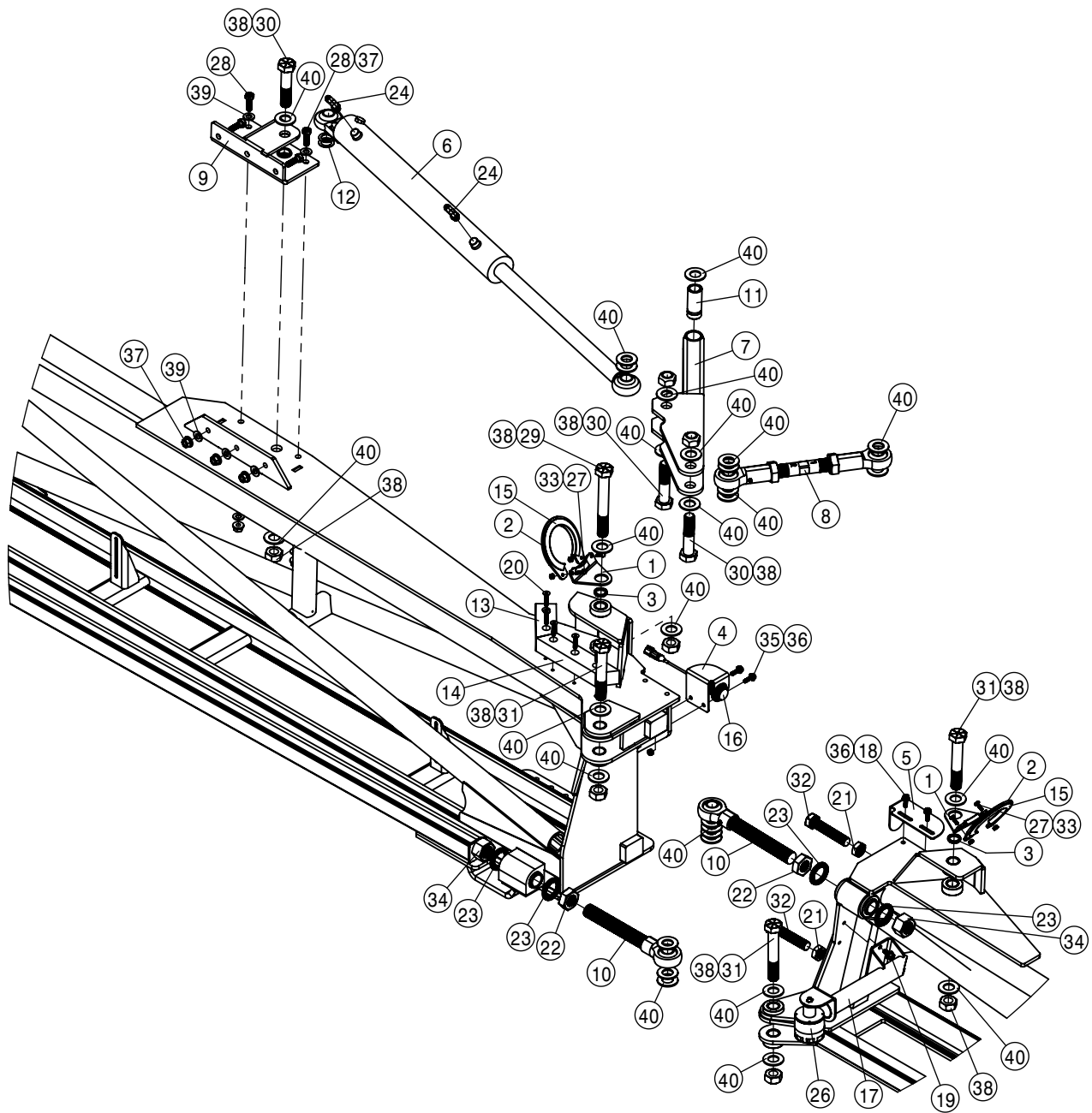
DETAIL B

LEFT INNER BOOM ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	167070	LH PROX MT, SECT 1-2 OTR 120'A'12
2	1	167093	LH ARM BRKT SHELF WLD 120'A'12
3	1	167102	BOOM BUMPER ASSY 120'A'12
4	1	167111	ARM BRKT SHELF BUMPER 120'A'12
5	1	167112	ARM BRKT SHELF PAD 120'A'12
6	1	292927	INDUCTIVE PROX SENSOR, 30MM
NS	1	294346	HARNESS,LH MAIN 120 BOOM
8	6	472284	1/4-28 UNF X 1 FHSCS GR5 B0
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
10	4	900858	3/8UNC X 1 1/2 HHCS GR8 MC
11	6	914001	1/4-28UNF STOVER NUT MC GR5
12	4	914004	3/8-16UNC STOVER NUT MC GR5
13	6	920000	SAE FLAT WASHER 1/4 MC
14	7	920002	SAE FLAT WASHER 3/8 MC



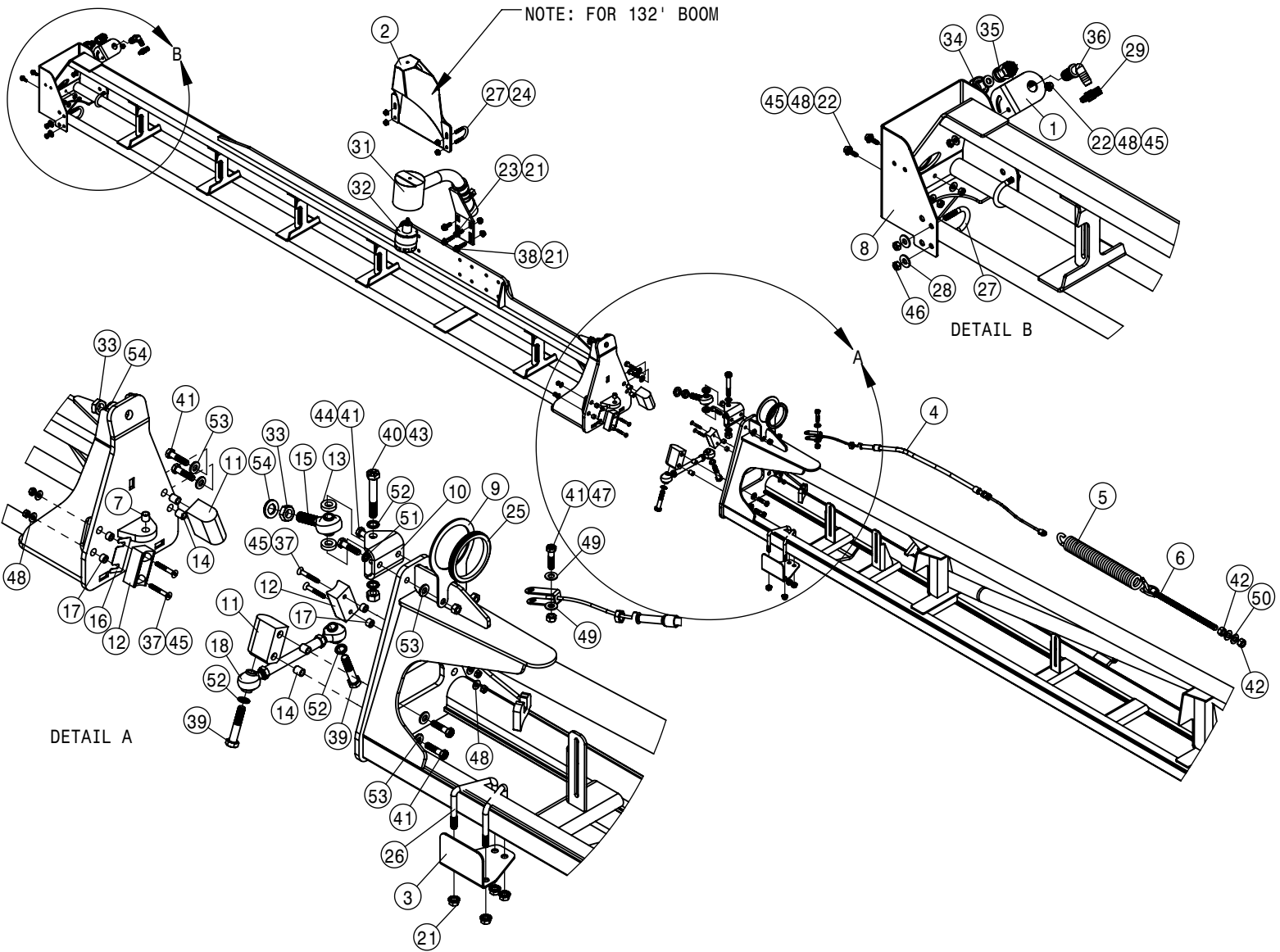
RIGHT BOOM FOLD ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	165950	HOSE RING MNT TAB, 120'A'13
2	2	165951	HOSE RING, REMOVABLE, 120'A'13
3	2	165952	SPACER, 1.25 X 1.010 X .220
4	1	167067	PROX MNT BRKT RH 120'A SECT1-2
5	1	167068	PROX FLAG BRKT RH 120'A SECT1-2
6	1	167091	RH HYD CYL, OUTER FOLD 120'A'12
7	1	167096	RH SCNDRY FOLD ARM WLD120'A'12
8	1	167103	S2-FOLD ARM CONN ASSY 120'A'12
9	1	167105	RH SIDE SUPP BRKT WLD 120'A'12
10	2	167109	ROD END WELD, SECT1-2 120'A'12
11	1	167113	BUSH SCNDRY FOLD ARM 120'A'12
12	1	167132	SHIM, 1.50 ODx1.02 IDx0.048
13	1	167323	RH GUIDE BLOCK, ALUM BOOM12'A'13
14	1	167324	RH GUIDE BLOCK, ALUM BOOM12'A'13
15	4	193012	QUICKEDGE TRIM .135 TO .250
16	1	292927	INDUCTIVE PROX SENSOR, 30MM
17	1	344537	120' NORAC MNT, RIGHT, SNSR 4
18	2	470409	3/8UNC X 3/4 HHSFB GR5 MC
19	5	472285	5/16-18 UNC X 1 1/2 FHSCS GR5 BO
20	2	472372	7/8-9 UNC HEX JAM NUT

RIGHT BOOM FOLD ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
21	2	472373	1 1/4UNF HEX JAM NUT
22	4	483021	1 1/2" NORD LOCK WASHER
23	2	618119	9/16MJIC-90-9/16MOR LBO
NS	1	650429	DECAL SHEET, 120' ALUM BOOM '12
25	1	693113	SENSOR, NORAC UC5 ULTRASONIC
26	4	900448	1/4UNC X 3/4 HHCS SS
27	5	900804	1/2UNC X 1 1/2 HHCS GR8 MC
28	1	900860	1UNC X 7 1/2 HHCS GR8 MC
29	3	900861	1UNC X 4 1/2 HHCS GR8 MC
30	3	900862	1UNC X 6 HHCS GR8 MC
31	2	900870	7/8UNC X 4.50 FULL HEX BOLT GR8
32	4	910000	1/4-20UNC HEX NUT MC GR5
33	2	910041	1 1/4UNF HEX NUT
34	4	910126	5/16UNC X 1 HHSFB SS
35	4	910132	5/16-18UNC NYLOCK NUT SS
36	5	914015	1/2-13UNC CTRLK FLG NUT MC GR5
37	7	914016	1-8UNC STOVER NUT MC GR5
38	10	920004	SAE FLAT WASHER 1/2 MC
39	31	920008	SAE FLAT WASHER 1 MC



LEFT BOOM FOLD ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	165950	HOSE RING MNT TAB, 120'A'13
2	2	165951	HOSE RING, REMOVABLE, 120'A'13
3	2	165952	SPACER, 1.25 X 1.010 X .220
4	1	167065	PROX MNT BRKT LH 120'A SECT1-2
5	1	167066	PROX FLAG BRKT LH 120'A SECT1-2
6	1	167090	LH HYD CYL, OUTER FOLD 120'A'12
7	1	167095	LH SCNDRY FOLD ARM WLD120'A'12
8	1	167103	S2-FOLD ARM CONN ASSY 120'A'12
9	1	167104	LH SIDE SUPP BRKT WLD 120'A'12
10	2	167109	ROD END WELD, SECT1-2 120'A'12
11	1	167113	BUSH SCNDRY FOLD ARM 120'A'12
12	3	167132	SHIM, 1.50 ODX1.02 IDX0.048
13	1	167325	LH GUIDE BLOCK, ALUM BOOM12'A'13
14	1	167326	LH GUIDE BLOCK, ALUM BOOM12'A'13
15	4	193012	QUICKEDGE TRIM .135 TO .250
16	1	292927	INDUCTIVE PROX SENSOR, 30MM
17	1	344540	120' NORAC MNT LEFT, SNSR 2
18	2	470234	5/16UNC X 1 HHSFB GR5 MC
19	2	470409	3/8UNC X 3/4 HHSFB GR5 MC
20	5	472285	5/16-18 UNC X 1 1/2 FHSCS GR5 BO

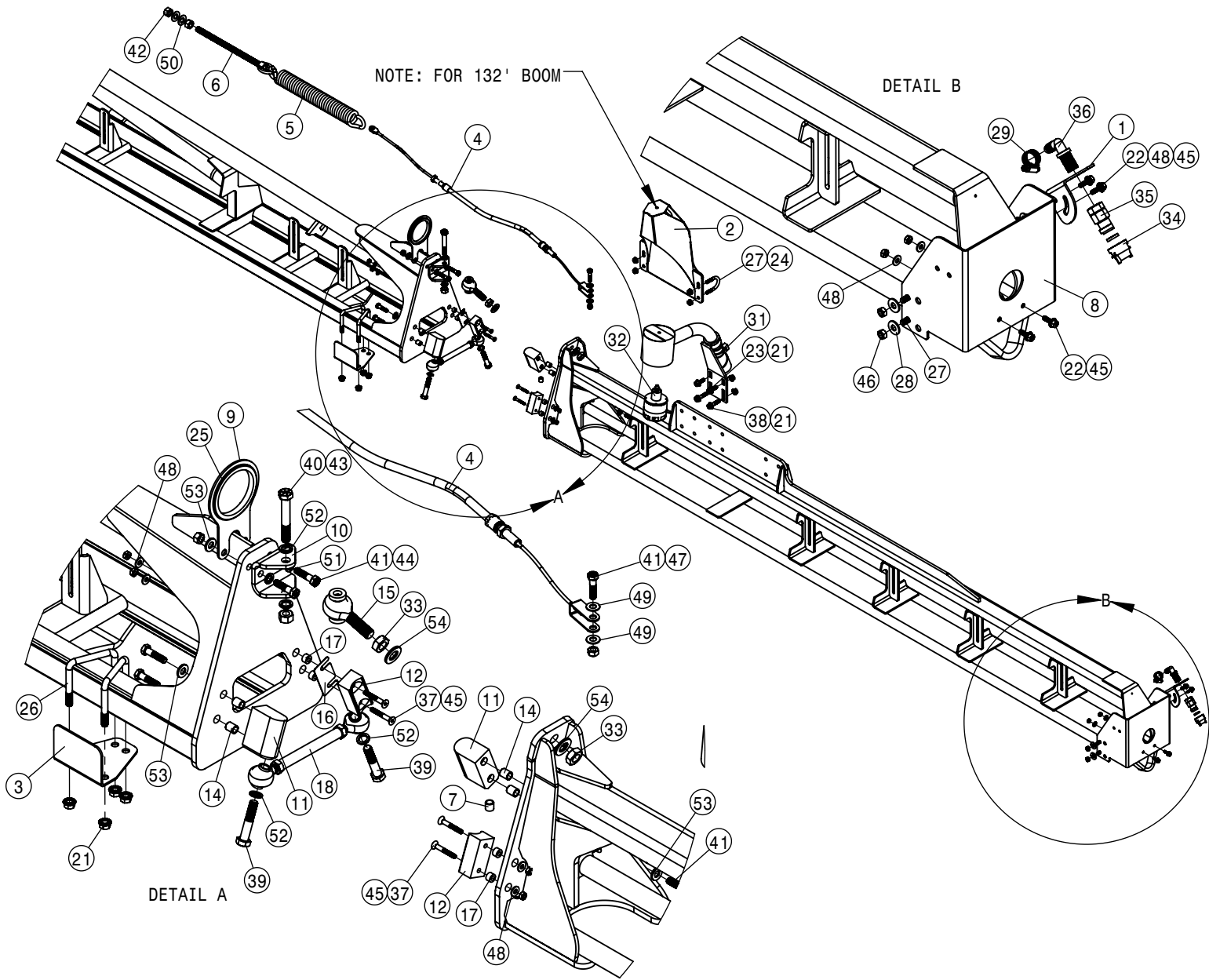
LEFT BOOM FOLD ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
21	2	472372	7/8-9 UNC HEX JAM NUT
22	2	472373	1 1/4UNC HEX JAM NUT
23	4	483021	1 1/2" NORD LOCK WASHER
24	2	618119	9/16MJIC-90-9/16MOR LBO
NS	1	650429	DECAL SHEET, 120' ALUM BOOM '12
26	1	693113	SENSOR, NORAC UC5 ULTRASONIC
27	4	900448	1/4UNC X 3/4 HHCS SS
28	5	900804	1/2UNC X 1 1/2 HHCS GR8 MC
29	1	900860	1UNC X 7 1/2 HHCS GR8 MC
30	3	900861	1UNC X 4 1/2 HHCS GR8 MC
31	3	900862	1UNC X 6 HHCS GR8 MC
32	2	900870	7/8UNCX 4.50 FULL HEX BOLT GR8
33	4	910000	1/4-20UNC HEX NUT MC GR5
34	2	910041	1 1/4UNF HEX NUT
35	2	910126	5/16UNC X 1 HHSFB SS
36	4	910132	5/16-18UNC NYLOCK NUT SS
37	5	914015	1/2-13UNC CTRLK FLG NUT MC GR5
38	7	914016	1-8UNC STOVER NUT MC GR5
39	10	920004	SAE FLAT WASHER 1/2 MC
40	31	920008	SAE FLAT WASHER 1 MC



RIGHT BOOM BREAKAWAY ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	166862	FENCE ROW NOZ BRKT RH, 120
2	1	166893	NORAC BRKT 5.4 DEGREE TILT
3	1	167069	PROX FLAG BRKT OTR SECT1-2 120'A'12
4	1	167092	CABLE,BREAK AWAY 120'A'12
5	1	167106	SPRING,BREAK AWAY 120'A'12
6	1	167107	BOOM SPRING ROD ASSY 120'A'12
7	1	167125	BRONZE BUSHING .5 OD X .058 WA
8	1	167135	BRKT MNT FOAM & FNCE ROW NOZL 7.5"
9	1	167821	HOSE RING PLT, 3 INCH '16
10	1	169221	BRKT, UPR PIV MT
11	2	169222	BLOCK, LWR PIV
12	2	169223	BLOCK, STOP
13	2	169224	SPACER, 1.00 OD X .50 ID X .25
14	4	169225	SLEEVE, .5000D X .375ID X .600
15	1	169226	ROD END, UPR BALL JOINT
16	4	169227	SHIM, STOP BLOCK
17	4	169228	SLEEVE, .5000D X .252ID X .313
18	1	169229	LINK ASSY, LWR HINGE
NS	2	294348	HARNNESS,120' BOOM WING

RIGHT BOOM BREAKAWAY ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
20	2	294349	HARNNESS,132' BOOM WING
21	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
22	4	470118	1/4UNC X 3/4 HHSFB GR5 MC
23	2	470460	3/8UNC X 1 HHSFB GR5 MC
24	4	470570	5/16UNC HEX FLG CNTR LOCK NUT
25	1	470691	GROMMET,3.000ID .125GW 3.25GD
26	2	472036	3/8UNC-2.63ID-2.88 U-BOLT SQ
27	4	473911	5/16UNC-1.31ID-2.00 U-BOLT ZINC
28	4	483040	USS FLAT WASHER 5/16 MC
29	1	520070	HOSE CLAMP NO 8 STAINLESS
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
31	1	693068	SENSOR MTG BRKT, NORAC
32	1	693113	SENSOR, NORAC UC5 ULTRASONIC
33	2	695914	5/8-18UNF HEX JAM NUT SS
34	1	737822	CAP SET, YELLOW QUICK TEEJET
35	1	737931	11/16-16F-QUICK TJET ADAPTER
36	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
37	4	900169	1/4-20 UNC X 3/4 FHSCS GR5 BZ
38	2	900504	3/8UNC X 1 1/2 HHSFB GR5 MC

RIGHT BOOM BREAKAWAY ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
39	2	900842	1/2UNC X 2 1/2 HHCS GR8 MC
40	1	900856	1/2UNC X 3 1/4 HHCS GR8 MC
41	7	900858	3/8UNC X 1 1/2 HHCS GR8 MC
42	2	910010	5/8-11UNC HEX NUT MC GR5
43	1	910032	1/2-13UNC HEX NUT MC GR8
44	2	910134	3/8-16UNC HEX NUT MC GR8
45	8	914000	1/4-20UNC STOVER NUT MC GR5
46	4	914002	5/16-18UNC STOVER NUT MC GR5
47	1	914004	3/8-16UNC STOVER NUT MC GR5
48	8	920000	SAE FLAT WASHER 1/4 MC
49	2	920002	SAE FLAT WASHER 3/8 MC
50	2	920005	SAE FLAT WASHER 5/8 MC
51	2	920523	WASHER, NORD-LOCK NL3/8
52	4	920524	WASHER, NORD-LOCK NL1/2
53	6	920525	WASHER, NORD-LOCK NL3/8SP
54	2	920526	WASHER, NORD-LOCK NL16SP



LEFT BOOM BREAKAWAY ASSEMBLY 120/132

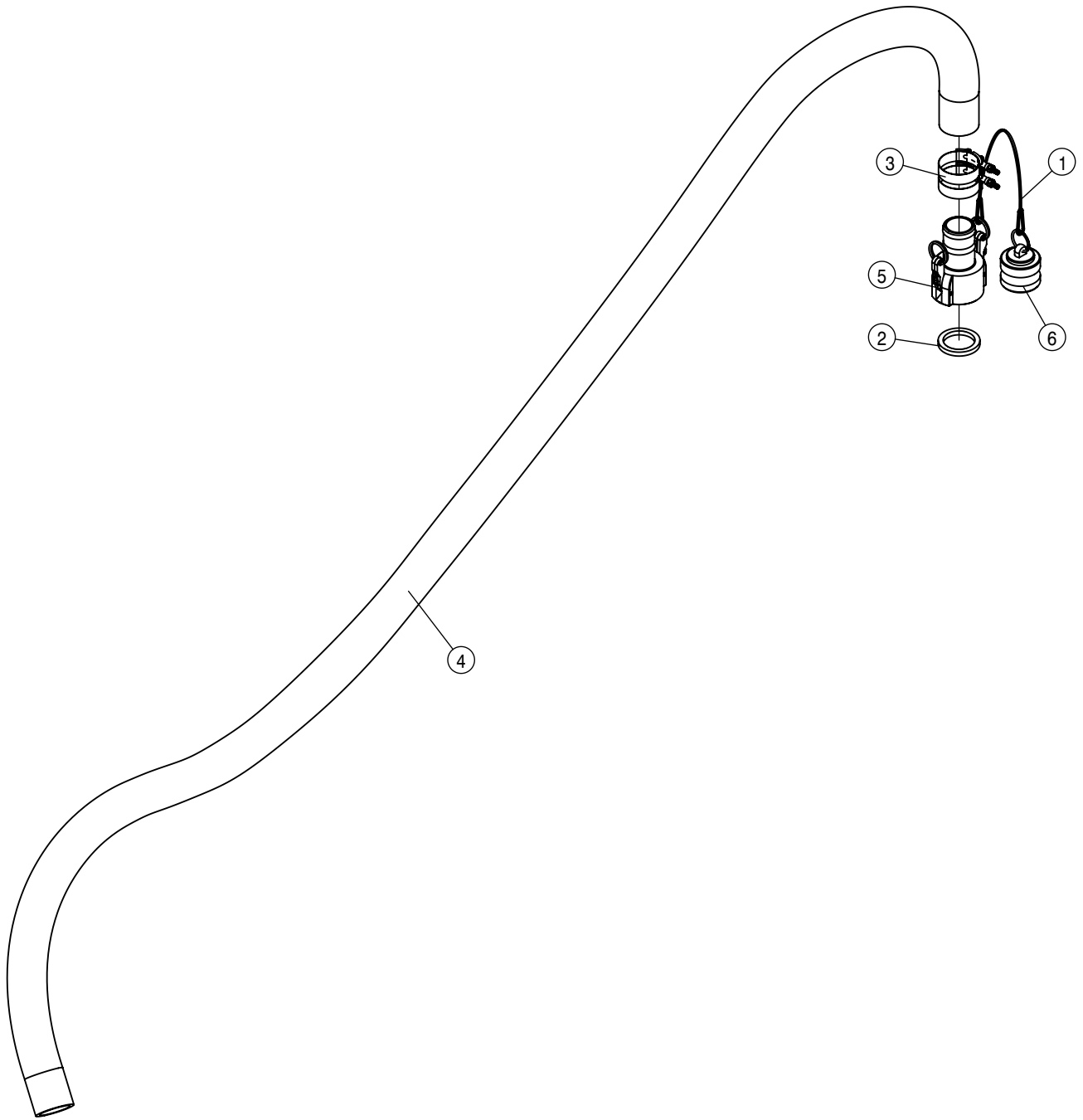
DET	QTY	P/N	DESCRIPTION
1	1	166863	FENCE ROW NOZ BRKT LH, 120
2	1	166893	NORAC BRKT 5.4 DEGREE TILT
3	1	167069	PROX FLAG BRKT OTR SECT1-2 120'A'12
4	1	167092	CABLE,BREAK AWAY 120'A'12
5	1	167106	SPRING,BREAK AWAY 120'A'12
6	1	167107	BOOM SPRING ROD ASSY 120'A'12
7	1	167125	BRONZE BUSHING .5 OD X .058 WA
8	1	167135	BRKT MNT FOAM & FNCE ROW NOZL 7.5"
9	1	167821	HOSE RING PLT, 3 INCH '16
10	1	169221	BRKT, UPR PIV MT
11	2	169222	BLOCK, LWR PIV
12	2	169223	BLOCK, STOP
13	2	169224	SPACER, 1.00 OD X .50 ID X .25
14	4	169225	SLEEVE, .5000D X .375ID X .600
15	1	169226	ROD END, UPR BALL JOINT
16	4	169227	SHIM, STOP BLOCK
17	4	169228	SLEEVE, .5000D X .252ID X .313
18	1	169229	LINK ASSY, LWR HINGE
NS	2	294348	HARNNESS,120' BOOM WING

LEFT BOOM BREAKAWAY ASSEMBLY 120/132

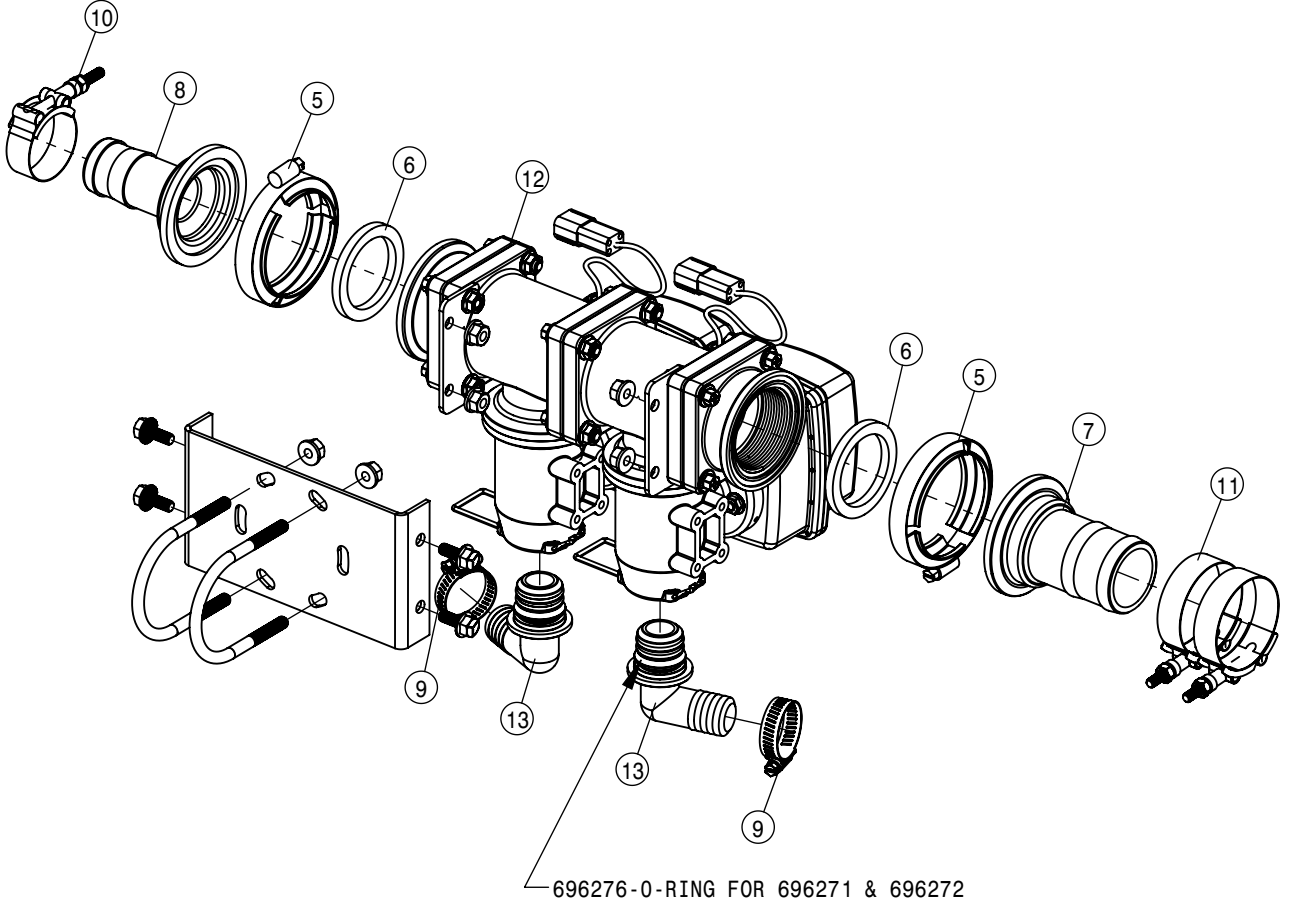
DET	QTY	P/N	DESCRIPTION
NS	2	294349	HARNNESS,132' BOOM WING
21	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
22	4	470118	1/4UNC X 3/4 HHSFB GR5 MC
23	2	470460	3/8UNC X 1 HHSFB GR5 MC
24	4	470570	5/16UNC HEX FLG CNTR LOCK NUT
25	1	470691	GROMMET,3.000ID .125GW 3.25GD
26	2	472036	3/8UNC-2.63ID-2.88 U-BOLT SQ
27	4	473911	5/16UNC-1.31ID-2.00 U-BOLT ZINC
28	4	483040	USS FLAT WASHER 5/16 MC
29	1	520070	HOSE CLAMP NO 8 STAINLESS
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
31	1	693068	SENSOR MTG BRKT, NORAC
32	1	693113	SENSOR, NORAC UC5 ULTRASONIC
33	2	695914	5/8-18UNF HEX JAM NUT SS
34	1	737822	CAP SET, YELLOW QUICK TEEJET
35	1	737931	11/16-16F-QUICK TJET ADAPTER
36	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
37	4	900169	1/4-20 UNC X 3/4 FHSCS GR5 BZ
38	2	900504	3/8UNC X 1 1/2 HHSFB GR5 MC

LEFT BOOM BREAKAWAY ASSEMBLY 120/132

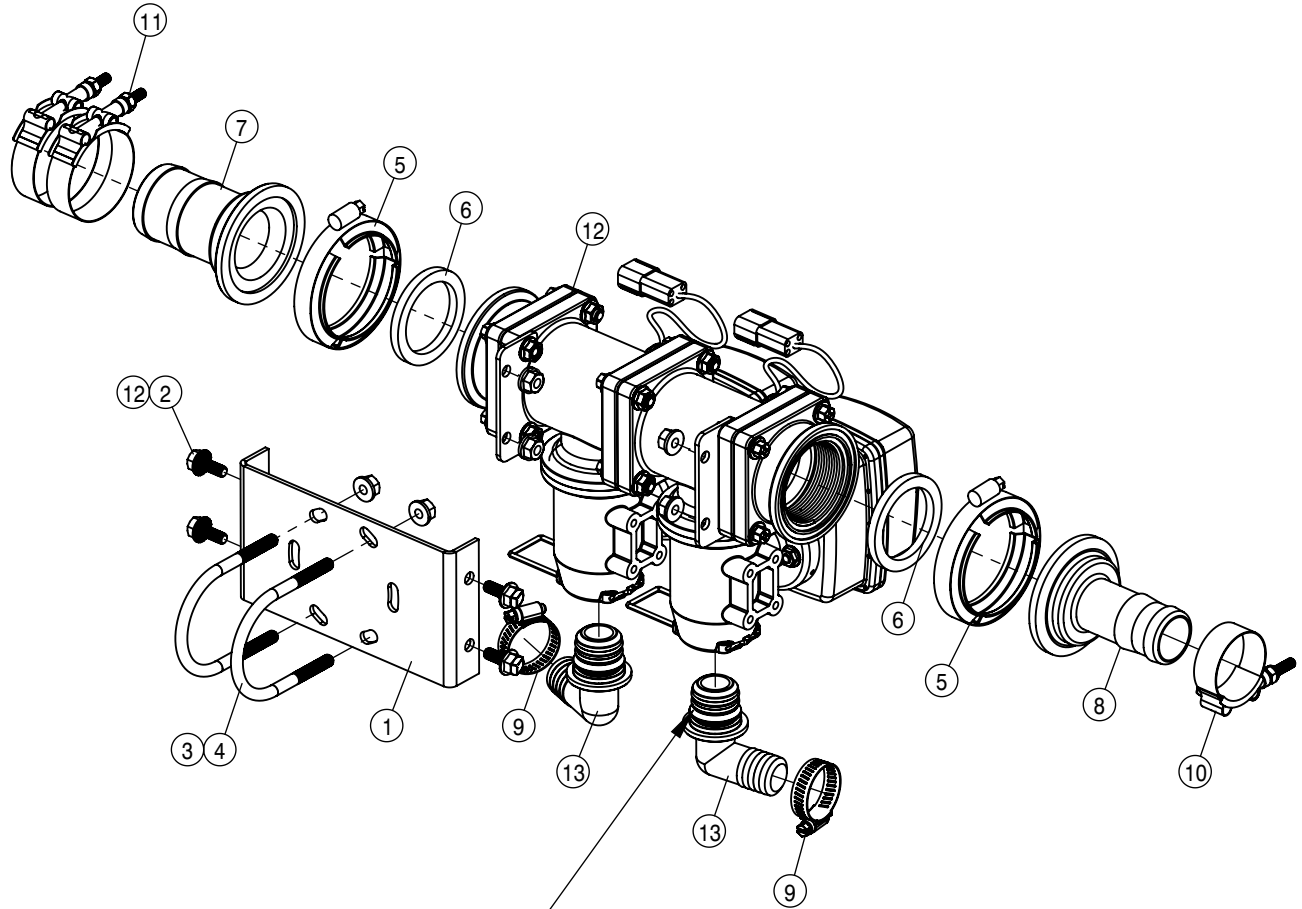
DET	QTY	P/N	DESCRIPTION
39	2	900842	1/2UNC X 2 1/2 HHCS GR8 MC
40	1	900856	1/2UNC X 3 1/4 HHCS GR8 MC
41	7	900858	3/8UNC X 1 1/2 HHCS GR8 MC
42	2	910010	5/8-11UNC HEX NUT MC GR5
43	1	910032	1/2-13UNC HEX NUT MC GR8
44	2	910134	3/8-16UNC HEX NUT MC GR8
45	8	914000	1/4-20UNC STOVER NUT MC GR5
46	4	914002	5/16-18UNC STOVER NUT MC GR5
47	1	914004	3/8-16UNC STOVER NUT MC GR5
48	8	920000	SAE FLAT WASHER 1/4 MC
49	2	920002	SAE FLAT WASHER 3/8 MC
50	2	920005	SAE FLAT WASHER 5/8 MC
51	2	920523	WASHER, NORD-LOCK NL3/8
52	4	920524	WASHER, NORD-LOCK NL1/2
53	6	920525	WASHER, NORD-LOCK NL3/8SP
54	2	920526	WASHER, NORD-LOCK NL16SP



CAM COUPLING ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
	1	470322	LANYARD 8" NYLON LOOP/LOOP
	1	500231	2"FP FLANGE GASKET,EXTRA THICK
	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
	1	601909	HOSE, 2 X 105 2F-IW EPDM
	1	690272	2" FEM COUPLER W/LOCK,2" BARB
	1	690392	PLUG FOR 2.00 FEMALE COUPLER

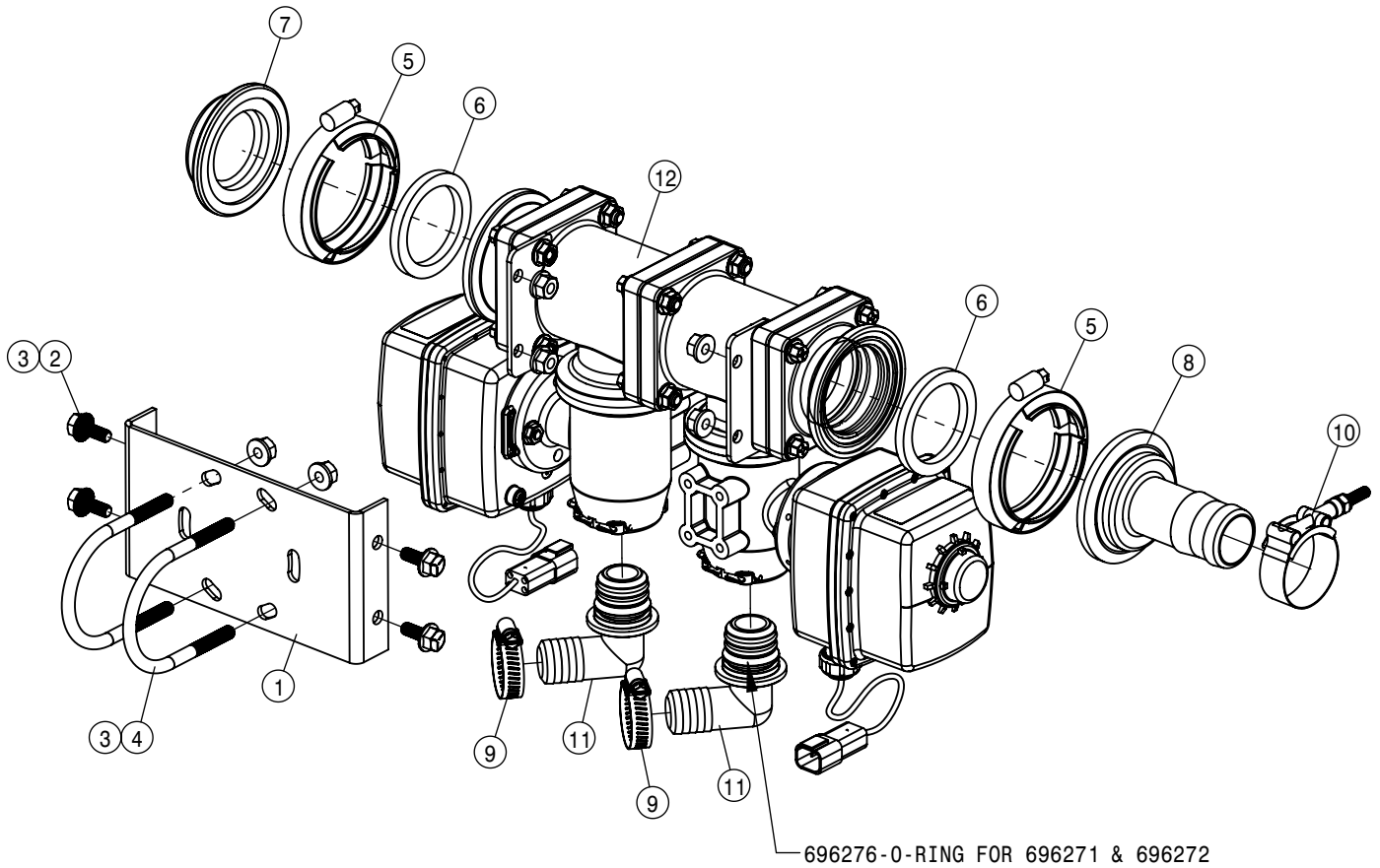


RIGHT INNER SOLUTION VALVE ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	167335	MTG BRKT SLTN VALVE 120' - 1
2	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
3	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
5	2	500194	2" FP FLANGE CLAMP S.S.
6	2	500195	2" FP FLANGE GASKET EPDM
7	1	500196	2"FP FLANGE-2"HOSE BARB POLY
8	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
9	2	520090	HOSECLAMP NO 16 STAINLESS
10	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
11	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
12	1	696270	2-VALVE STACK, QX4 KZCO
13	2	696272	1" 90 HOSE BARB FOR 696270, KZCO

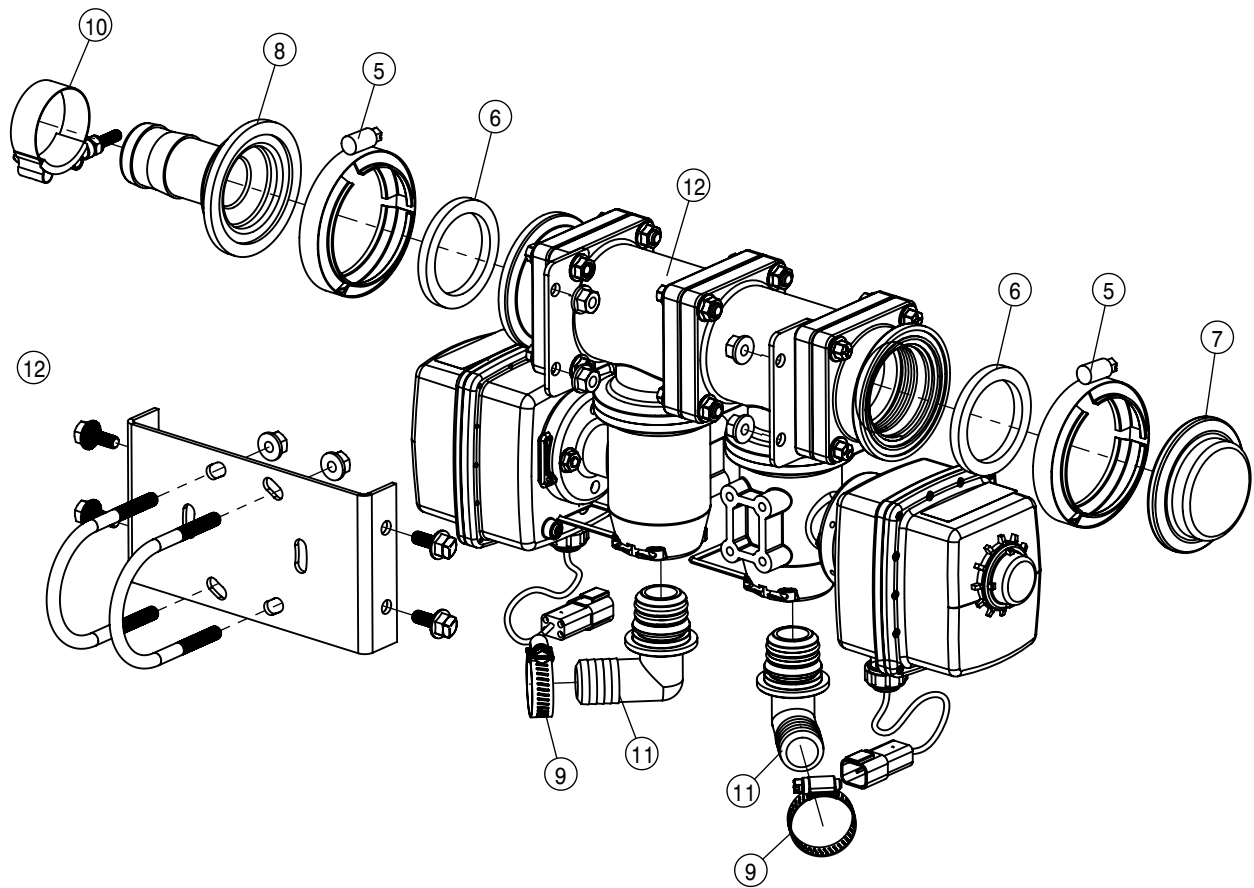


696276-0-RING FOR 696271 & 696272

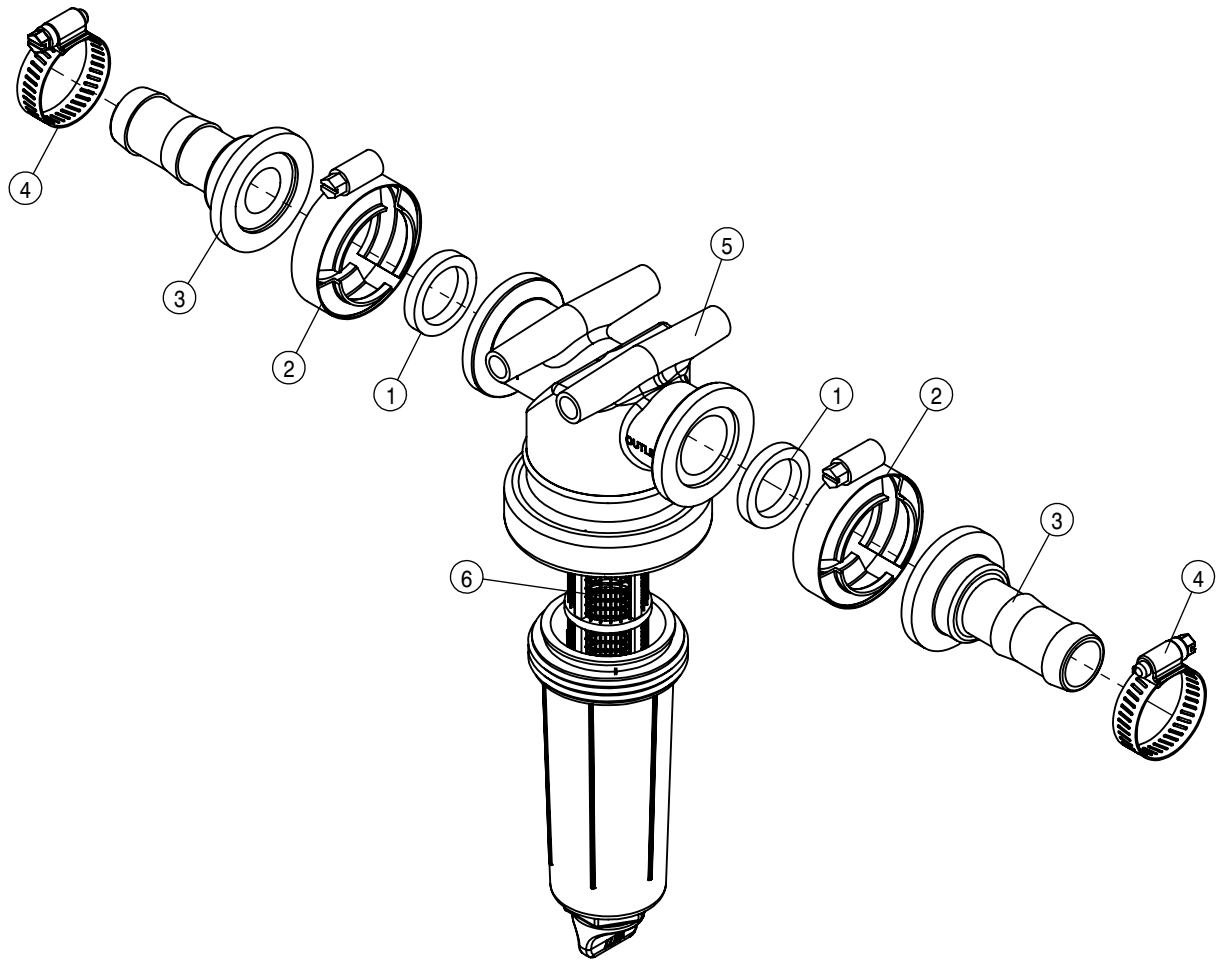
LEFT INNER SOLUTION VALVE ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	167335	MTG BRKT SLTN VALVE 120' - 1
2	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
3	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
5	2	500194	2" FP FLANGE CLAMP S.S.
6	2	500195	2" FP FLANGE GASKET EPDM
7	1	500196	2"FP FLANGE-2"HOSE BARB POLY
8	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
9	2	520090	HOSECLAMP NO 16 STAINLESS
10	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
11	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
12	1	696270	2-VALVE STACK, QX4 KZCO
13	2	696272	1" 90 HOSE BARB FOR 696270, KZCO



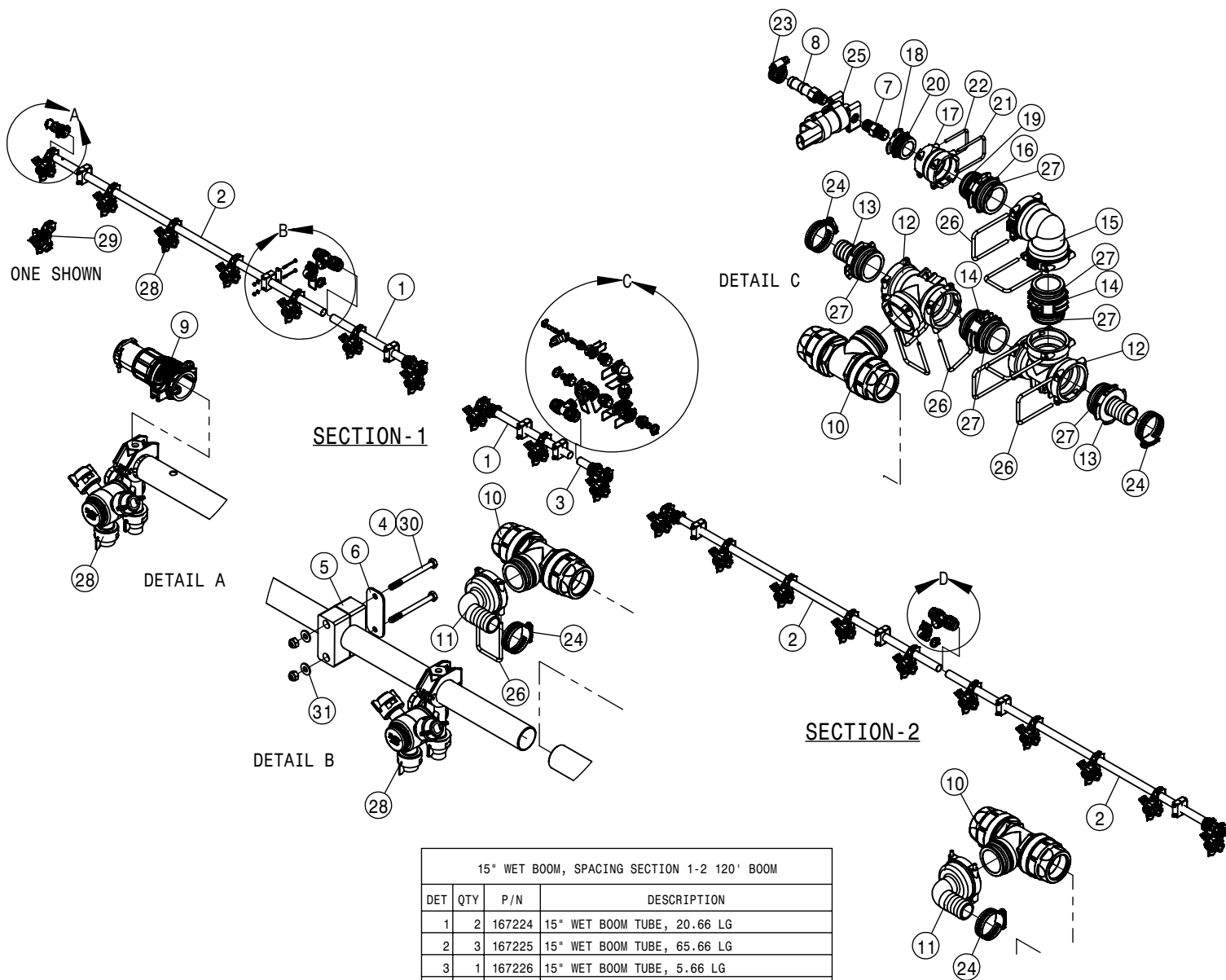
RIGHT OUTER SOLUTION VALVE ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
	1	167335	MTG BRKT SLTN VALVE 120' - 1
	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
	2	500194	2" FP FLANGE CLAMP S.S.
	2	500195	2" FP FLANGE GASKET EPDM
	1	500206	2"FP FLANGE PLUG
	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
	2	520090	HOSECLAMP NO 16 STAINLESS
	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
	2	696272	1" 90 HOSE BARB FOR 696270, KZCO
	1	696295	2-VALVE STACK, QX4 KZCO



LEFT OUTER SOLUTION VALVE ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	1	167335	MTG BRKT SLTN VALVE 120' - 1
2	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
3	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
5	2	500194	2" FP FLANGE CLAMP S.S.
6	2	500195	2" FP FLANGE GASKET EPDM
7	1	500206	2"FP FLANGE PLUG
8	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
9	2	520090	HOSECLAMP NO 16 STAINLESS
10	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
11	2	696272	1" 90 HOSE BARB FOR 696270, KZCO
12	1	696295	2-VALVE STACK, QX4 KZCO

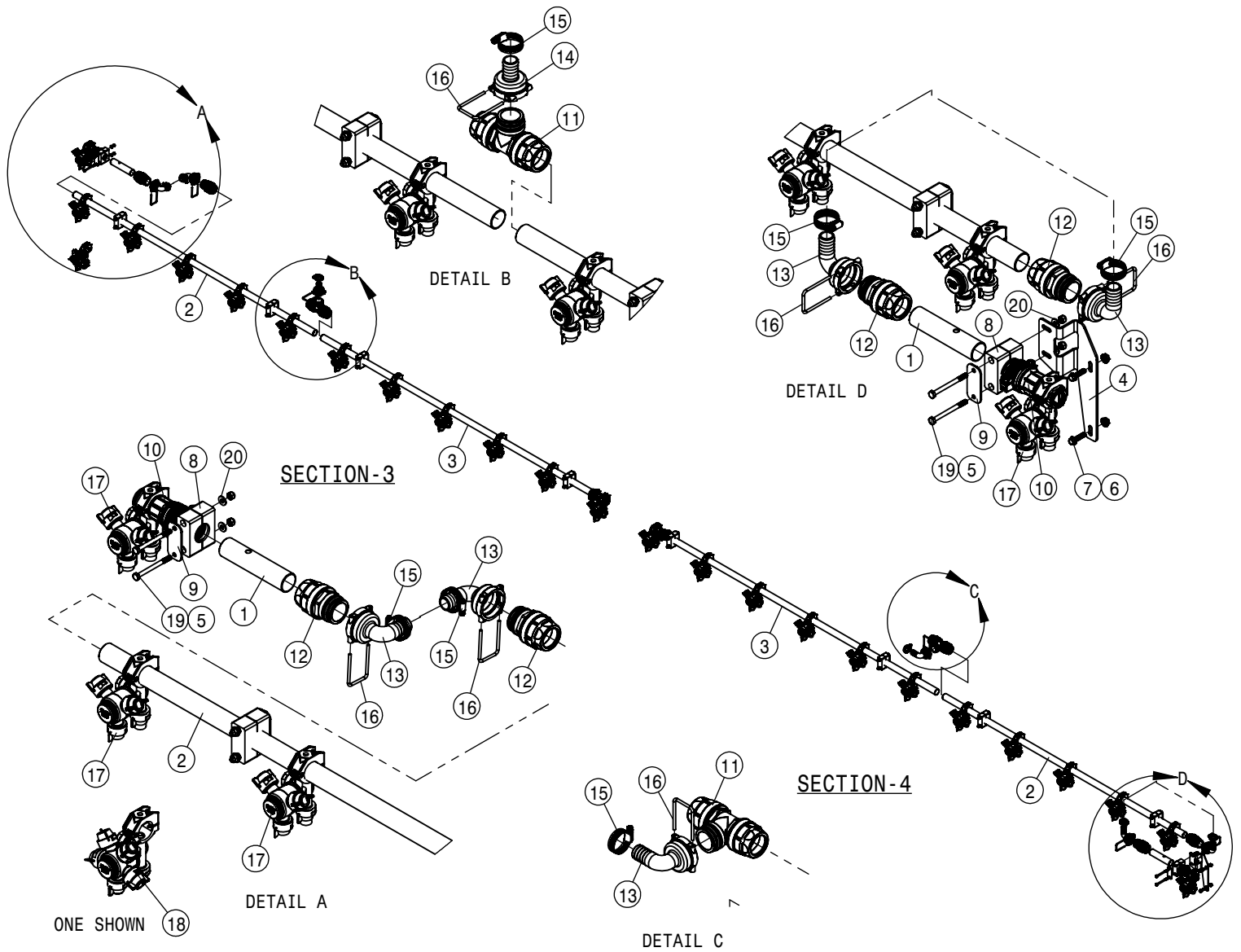


BOOM STRAINER ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	500157	1" FLANGE GASKET EPDM
2	2	500159	1" FLANGE CLAMP S.S.
3	2	500171	1" FLANGE-1" HOSE BARB POLY
4	2	520090	HOSECLAMP NO 16 STAINLESS
5	1	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
6	1	690661	50 MESH SCREEN FOR 690660

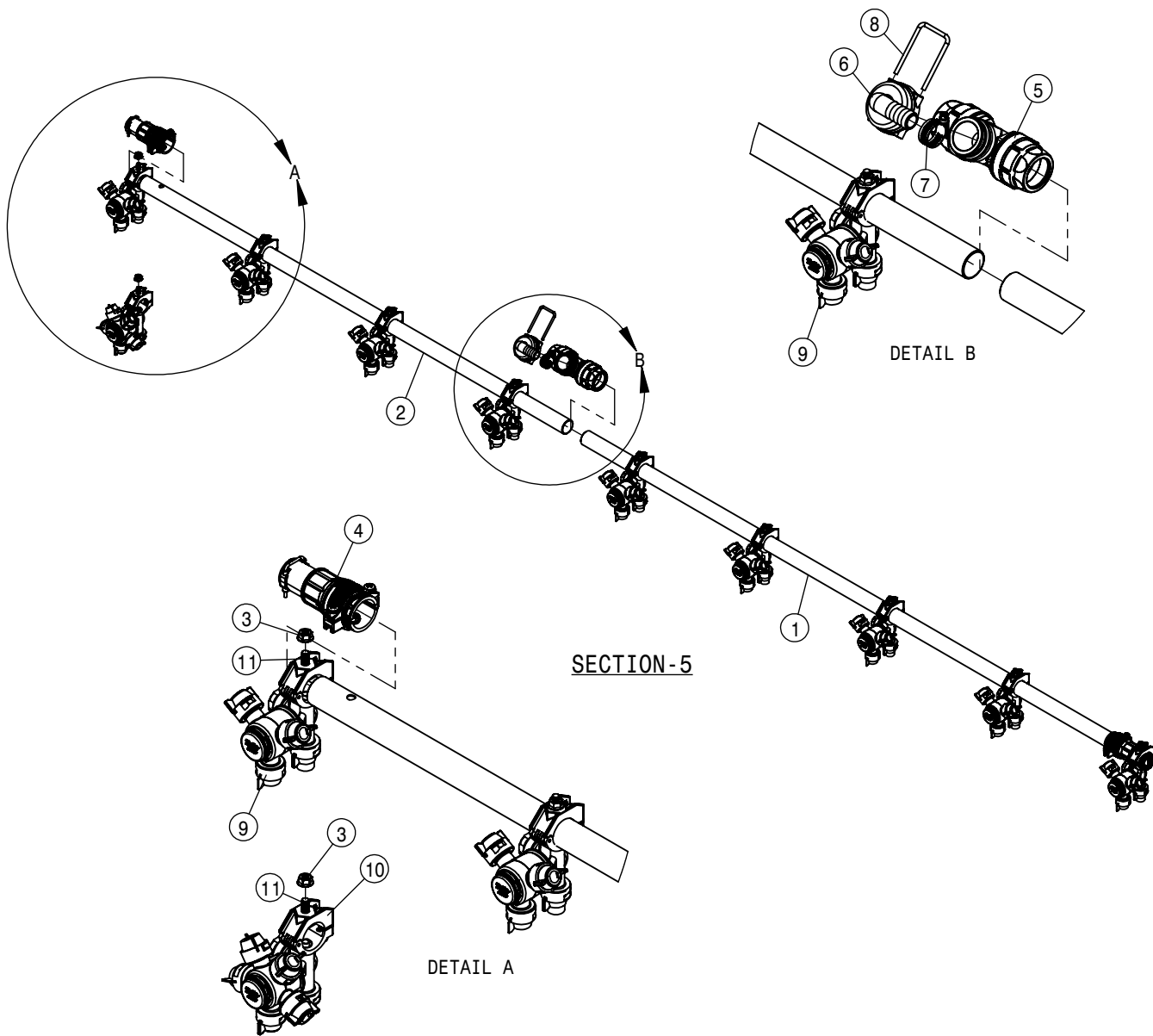


15" WET BOOM, SPACING SECTION 1-2 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167224	15" WET BOOM TUBE, 20.66 LG
2	3	167225	15" WET BOOM TUBE, 65.66 LG
3	1	167226	15" WET BOOM TUBE, 5.66 LG
4	18	470089N	1/4UNC HEX NYLOC NUT, 316 SS
5	9	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	9	470376	COVER PLATE FOR 470375
7	1	500001	1/4MNPT HEX PIPE NIPPLE STL
8	1	500128	1/4NPT-1/2 HOSE BARB, POLY
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	2	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	2	500302	T5 MALE COUPLER
15	1	500303	T5 FEMALE 90
16	1	500304	T5 - T4 MALE REDUCER
17	1	500305	T4 - T3 FEMALE REDUCER
18	1	500306	T3 MALE TO 1/4" NPT
19	1	500308	O-RING, 3.53MM X 28.17MM EPDM
20	1	500309	O-RING, 2.62MM X 25.07MM EPDM
21	1	500310	FORK D3 DIST 34.2
22	1	500311	FORK D3 DIST 29
23	1	520069	HOSE CLAMP NO 6 STAINLESS
24	4	520090	HOSECLAMP NO 16 STAINLESS
25	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
26	10	737738	FORK,D.3 DIST.42 (737731)
27	7	737763	O-RING, 1 1/4"CONN EPDM
28	20	737921	QUICK TJET 3-TIP BODY,1" HV
29	20	737925	QUICK TJET 5 + 1-TIP BODY 1"
30	18	900010N	1/4UNC X 3" HEX BOLT SS
31	18	920000N	1/4 SAE FLAT WASHER SS

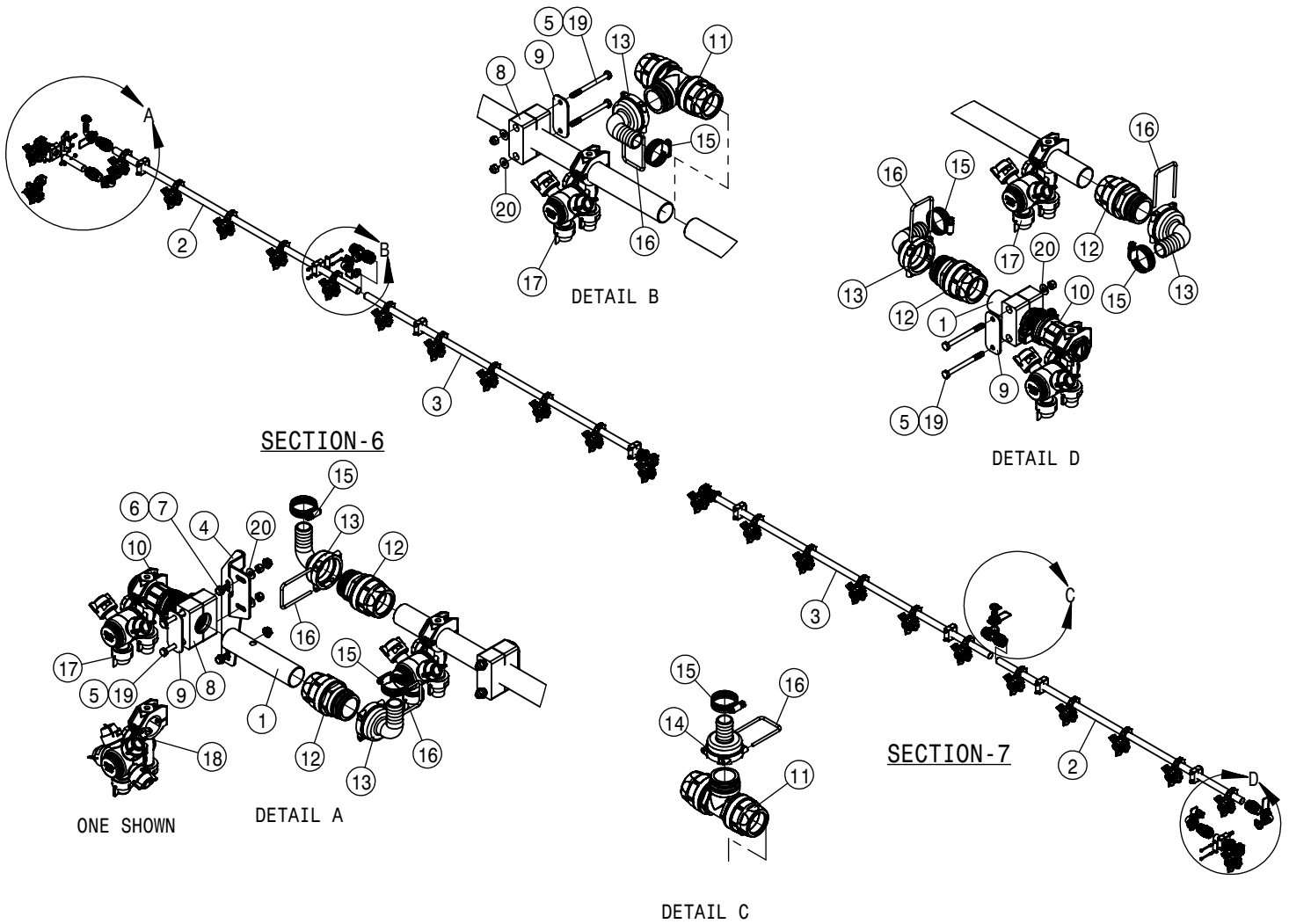
DETAIL D



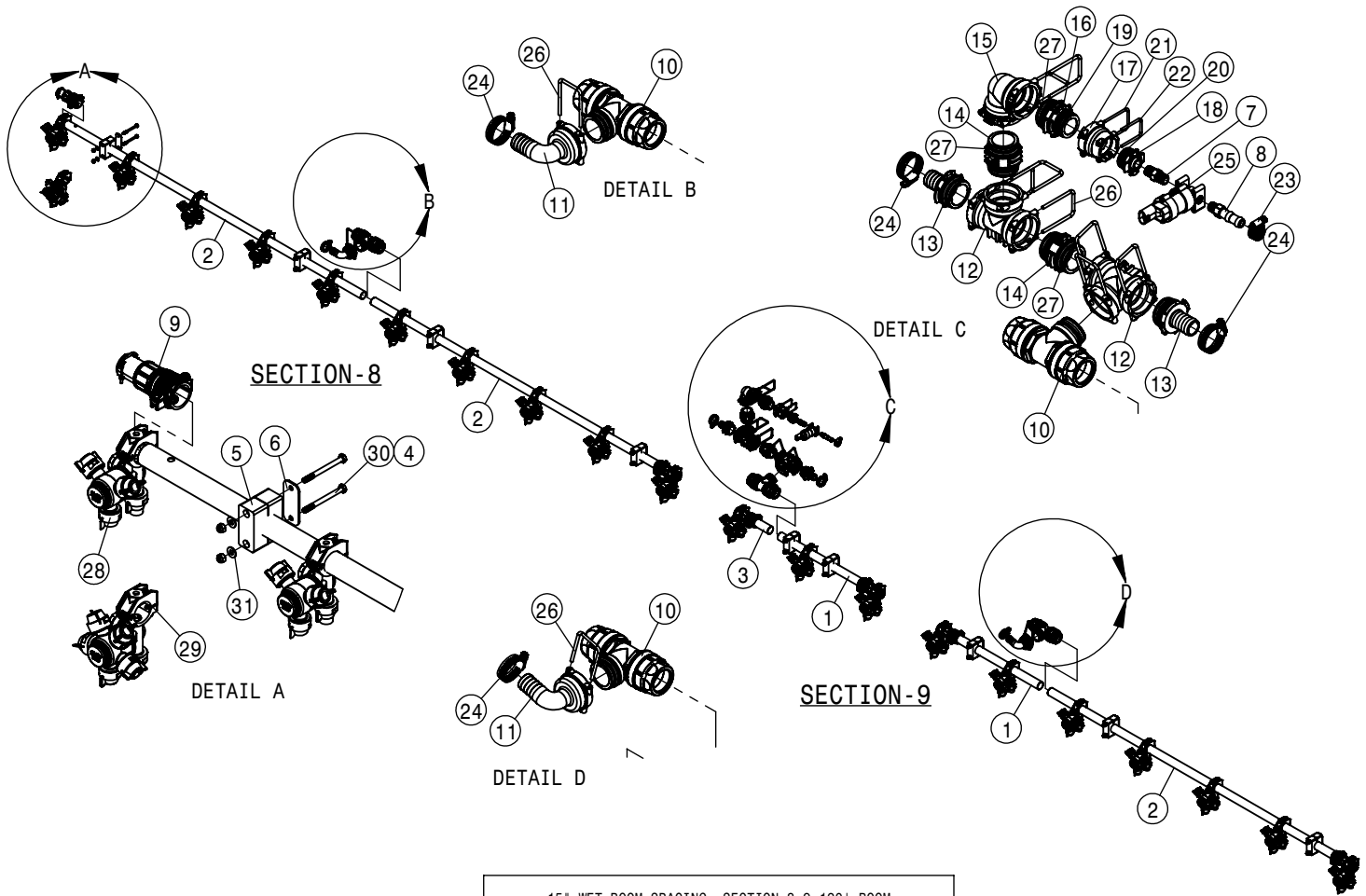
15" WET BOOM SPACING, SECTION 3-4 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167226	15" WET BOOM TUBE, 5.66 LG
2	2	167227	15" WET BOOM TUBE, 69.50 LG
3	2	167228	15" WET BOOM TUBE, 80.66 LG
4	1	167256	REMOTE TUBE MNT LH 15" 120'A
5	20	470089N	1/4UNC HEX NYLOC NUT, 316 SS
6	2	470121N	1/4 UNC SERR FLG LOCK NUT SS
7	2	470231N	1/4UNC X 1" SERR FLG BOLT SS
8	10	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
9	10	470376	COVER PLATE FOR 470375
10	4	500295	NOZZLE BODY END CAP
11	2	500296	EASY FIT TEE 1" PIPE
12	4	500298	EASY FIT END T5, 1" PIPE
13	5	500299	T5 TO 25MM HB 90
14	1	500307	T5 FEMALE TO 25MM HB
15	6	520090	HOSECLAMP NO 16 STAINLESS
16	6	737738	FORK, D.3 DIST.42 (737731)
17	24	737921	QUICK TJET 3-TIP BODY, 1" HV
18	24	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	20	900010N	1/4UNC X 3" HEX BOLT SS
20	20	920000N	1/4 SAE FLAT WASHER SS



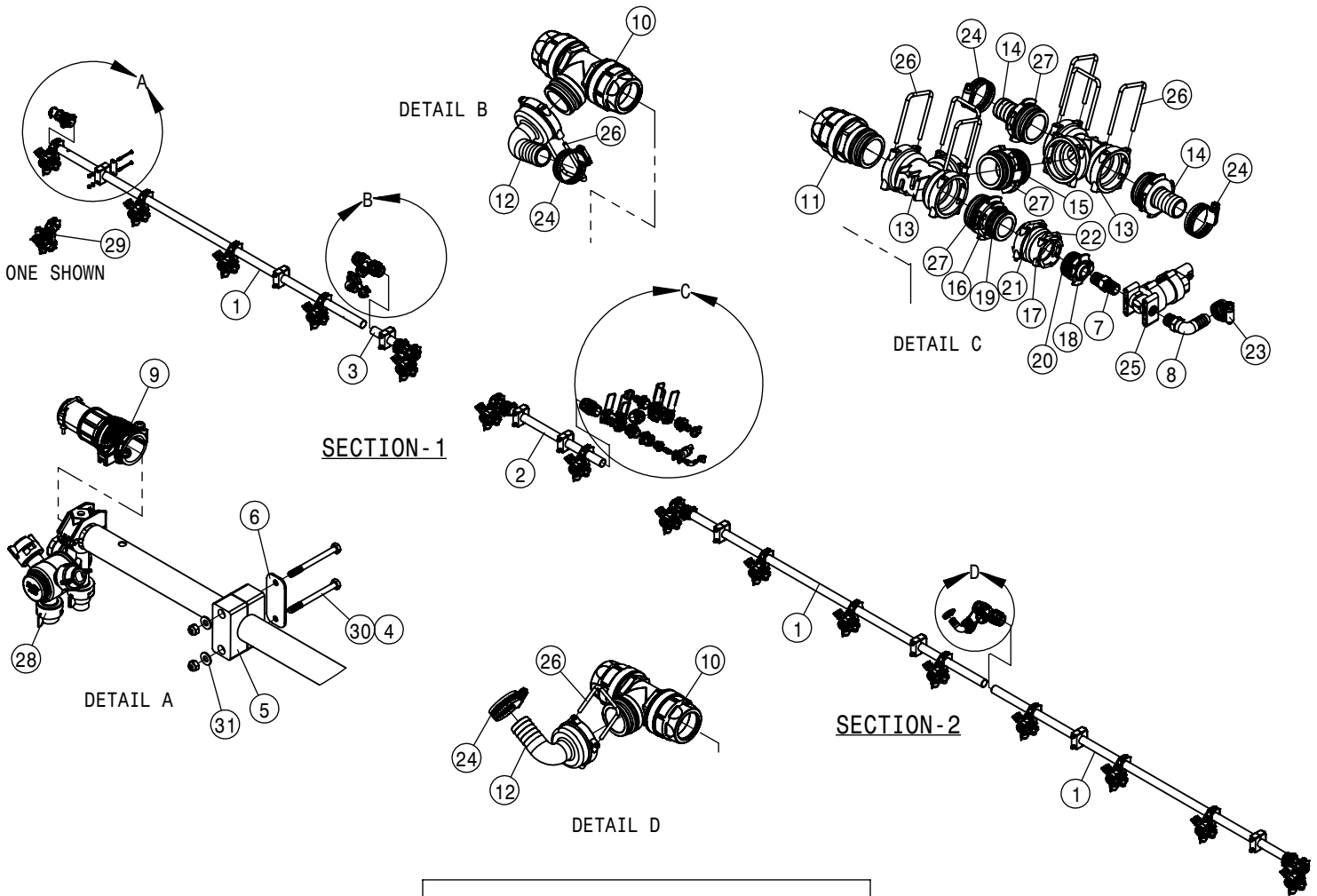
15" WET BOOM SPACING, SECTION-5 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	1	167225	15" WET BOOM TUBE, 65.66 LG
2	1	167229	15" WET BOOM TUBE, 50.66 LG
3	18	470113N	5/16UNC SERR FLG LOCK NUT SS
4	2	500295	NOZZLE BODY END CAP
5	1	500296	EASY FIT TEE 1" PIPE
6	1	500297	T5 TO 20MM HB 90
7	1	520080	HOSE CLAMP NO 10 STAINLESS
8	1	737738	FORK,D.3 DIST.42 (737731)
9	9	737921	QUICK TJET 3-TIP BODY,1" HV
10	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	18	900064S	5/16UNC X 3/4" HEX BOLT SS



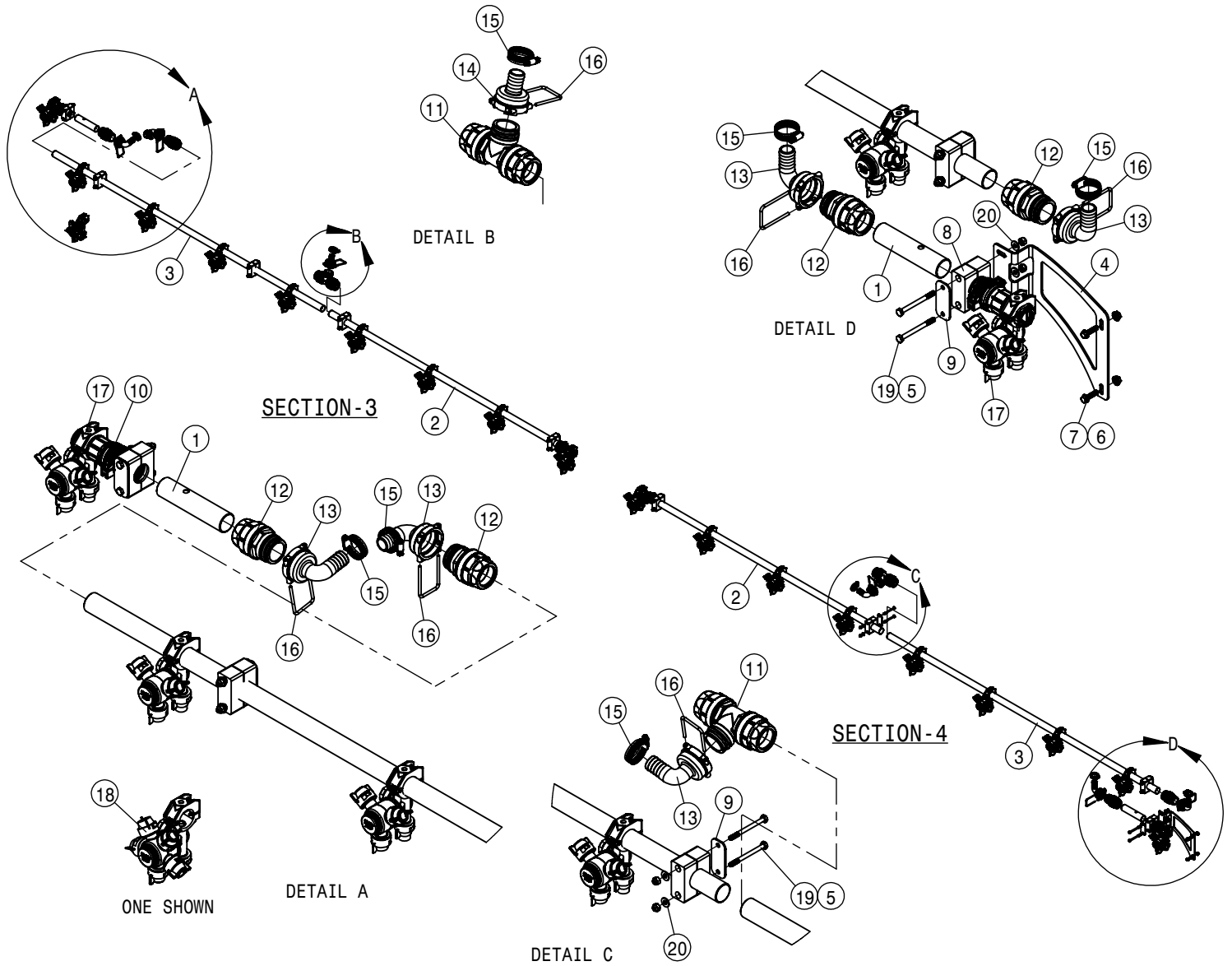
15" WET BOOM SPACING, SECTION 6-7 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167226	15" WET BOOM TUBE, 5.66 LG
2	2	167227	15" WET BOOM TUBE, 69.50 LG
3	2	167228	15" WET BOOM TUBE, 80.66 LG
4	1	167257	REMOTE TUBE MNT RH 15" 120'A
5	20	470089N	1/4UNC HEX NYLOC NUT, 316 SS
6	2	470121N	1/4 UNC SERR FLG LOCK NUT SS
7	2	470231N	1/4UNC X 1" SERR FLG BOLT SS
8	10	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
9	10	470376	COVER PLATE FOR 470375
10	4	500295	NOZZLE BODY END CAP
11	2	500296	EASY FIT TEE 1" PIPE
12	4	500298	EASY FIT END T5, 1" PIPE
13	5	500299	T5 TO 25MM HB 90
14	1	500307	T5 FEMALE TO 25MM HB
15	6	520090	HOSECLAMP NO 16 STAINLESS
16	6	737738	FORK,D.3 DIST.42 (737731)
17	24	737921	QUICK TJET 3-TIP BODY,1" HV
18	24	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	20	900010N	1/4UNC X 3" HEX BOLT SS
20	20	920000N	1/4 SAE FLAT WASHER SS



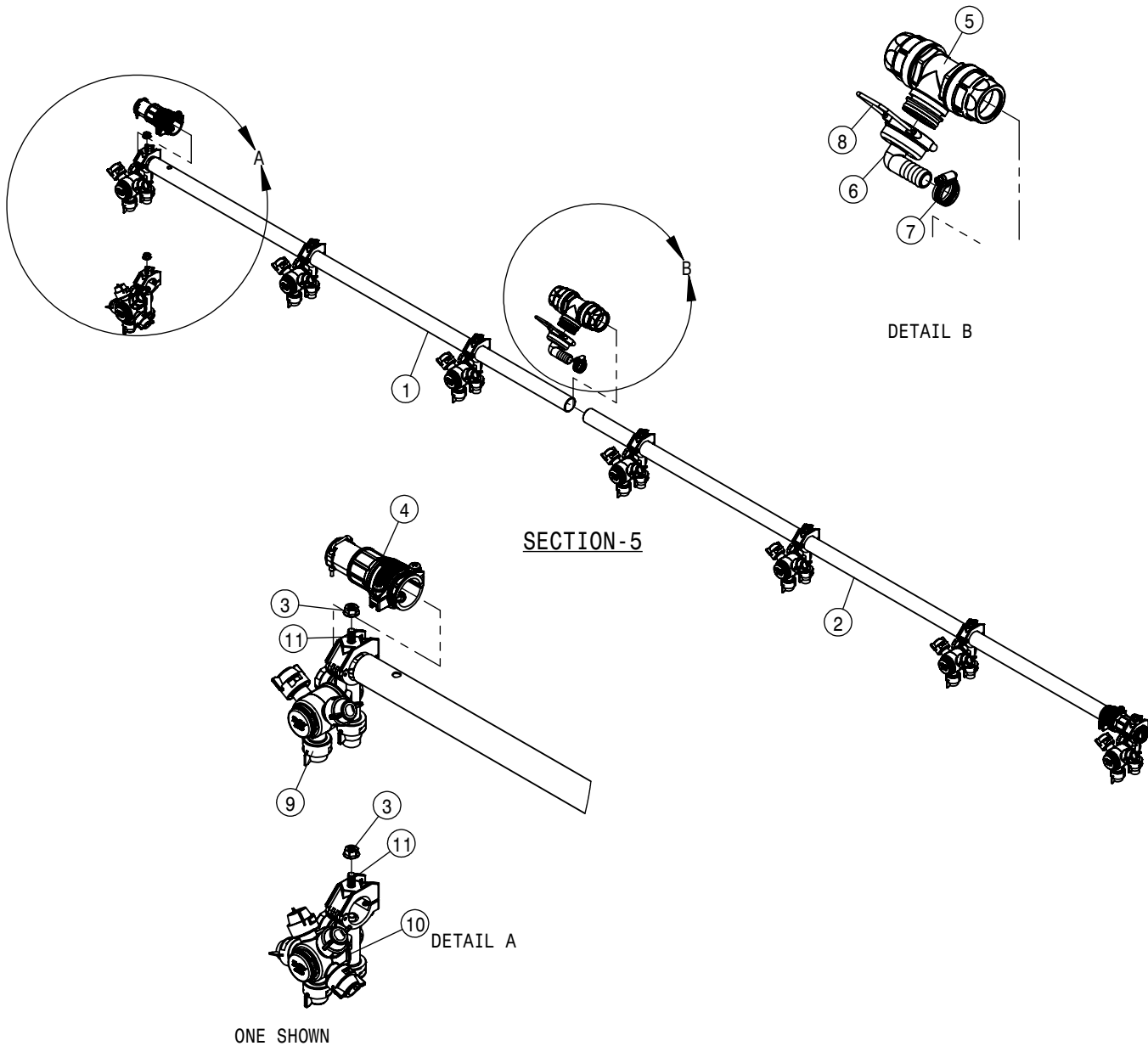
15" WET BOOM SPACING, SECTION 8-9 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167224	15" WET BOOM TUBE, 20.66 LG
2	3	167225	15" WET BOOM TUBE, 65.66 LG
3	1	167226	15" WET BOOM TUBE, 5.66 LG
4	18	470089N	1/4UNC HEX NYLOC NUT, 316 SS
5	9	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	9	470376	COVER PLATE FOR 470375
7	1	500001	1/4MNPT HEX PIPE NIPPLE STL
8	1	500128	1/4NPT-1/2 HOSE BARB, POLY
9	6	500295	NOZZLE BODY END CAP
10	3	500296	EASY FIT TEE 1" PIPE
11	2	500299	T5 TO 25MM HB 90
12	2	500300	T5 FEMALE TEE
13	2	500301	T5 MALE TO 25MM HB
14	2	500302	T5 MALE COUPLER
15	1	500303	T5 FEMALE 90
16	1	500304	T5 - T4 MALE REDUCER
17	1	500305	T4 - T3 FEMALE REDUCER
18	1	500306	T3 MALE TO 1/4" NPT
19	1	500308	O-RING, 3.53MM X 28.17MM EPDM
20	1	500309	O-RING, 2.62MM X 25.07MM EPDM
21	1	500310	FORK D3 DIST 34.2
22	1	500311	FORK D3 DIST 29
23	1	520069	HOSE CLAMP NO 6 STAINLESS
24	4	520090	HOSECLAMP NO 16 STAINLESS
25	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
26	10	737738	FORK,D.3 DIST.42 (737731)
27	7	737763	O-RING, 1 1/4" CONN EPDM
28	20	737921	QUICK TJET 3-TIP BODY,1" HV
29	20	737925	QUICK TJET 5 + 1-TIP BODY 1"
30	18	900010N	1/4UNC X 3" HEX BOLT SS
31	18	920000N	1/4 SAE FLAT WASHER SS



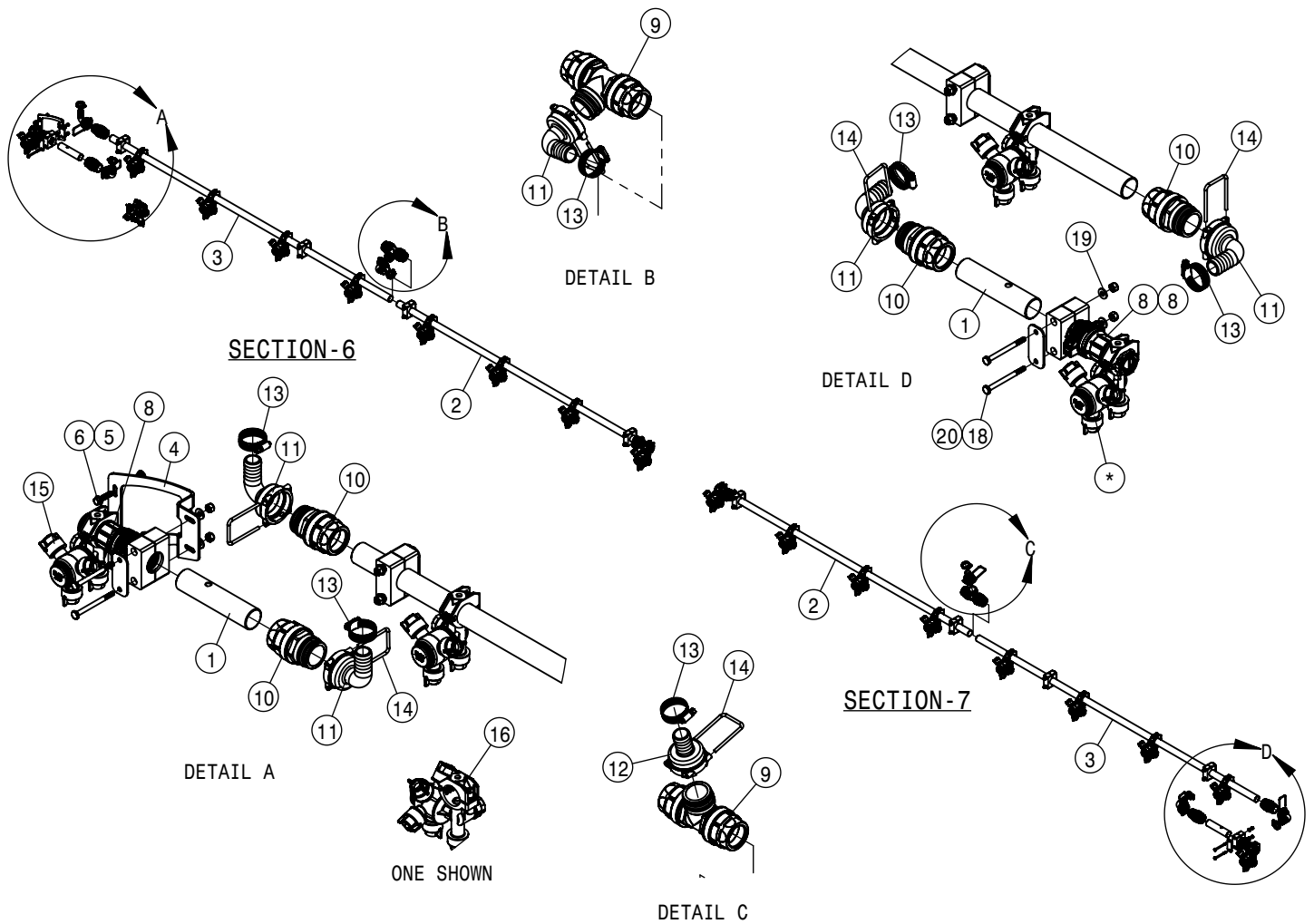
20" WET BOOM SPACING, SECTION 1-2 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	3	167230	20" WET BOOM TUBE, 68.13 LG
2	1	167233	20" WET BOOM TUBE, 23 LG
3	1	167234	20" WET BOOM TUBE, 8.13 LG
4	18	470089N	1/4UNC HEX NYLOC NUT, 316 SS
5	9	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	9	470376	COVER PLATE FOR 470375
7	1	500001	1/4MNPT HEX PIPE NIPPLE STL
8	1	500118	1/4"NPT-90-1/2"HOSE BARB, POLY
9	5	500295	NOZZLE BODY END CAP
10	2	500296	EASY FIT TEE 1" PIPE
11	1	500298	EASY FIT END T5, 1" PIPE
12	2	500299	T5 TO 25MM HB 90
13	2	500300	T5 FEMALE TEE
14	2	500301	T5 MALE TO 25MM HB
15	1	500302	T5 MALE COUPLER
16	1	500304	T5 - T4 MALE REDUCER
17	1	500305	T4 - T3 FEMALE REDUCER
18	1	500306	T3 MALE TO 1/4" NPT
19	1	500308	O-RING, 3.53MM X 28.17MM EPDM
20	1	500309	O-RING, 2.62MM X 25.07MM EPDM
21	1	500310	FORK D3 DIST 34.2
22	1	500311	FORK D3 DIST 29
23	1	520069	HOSE CLAMP NO 6 STAINLESS
24	4	520090	HOSECLAMP NO 16 STAINLESS
25	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
26	8	737738	FORK,D.3 DIST.42 (737731)
27	5	737763	O-RING, 1 1/4"CONN EPDM
28	15	737921	QUICK TJET 3-TIP BODY,1" HV
29	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
30	18	900010N	1/4UNC X 3" HEX BOLT SS
31	18	920000N	1/4 SAE FLAT WASHER SS



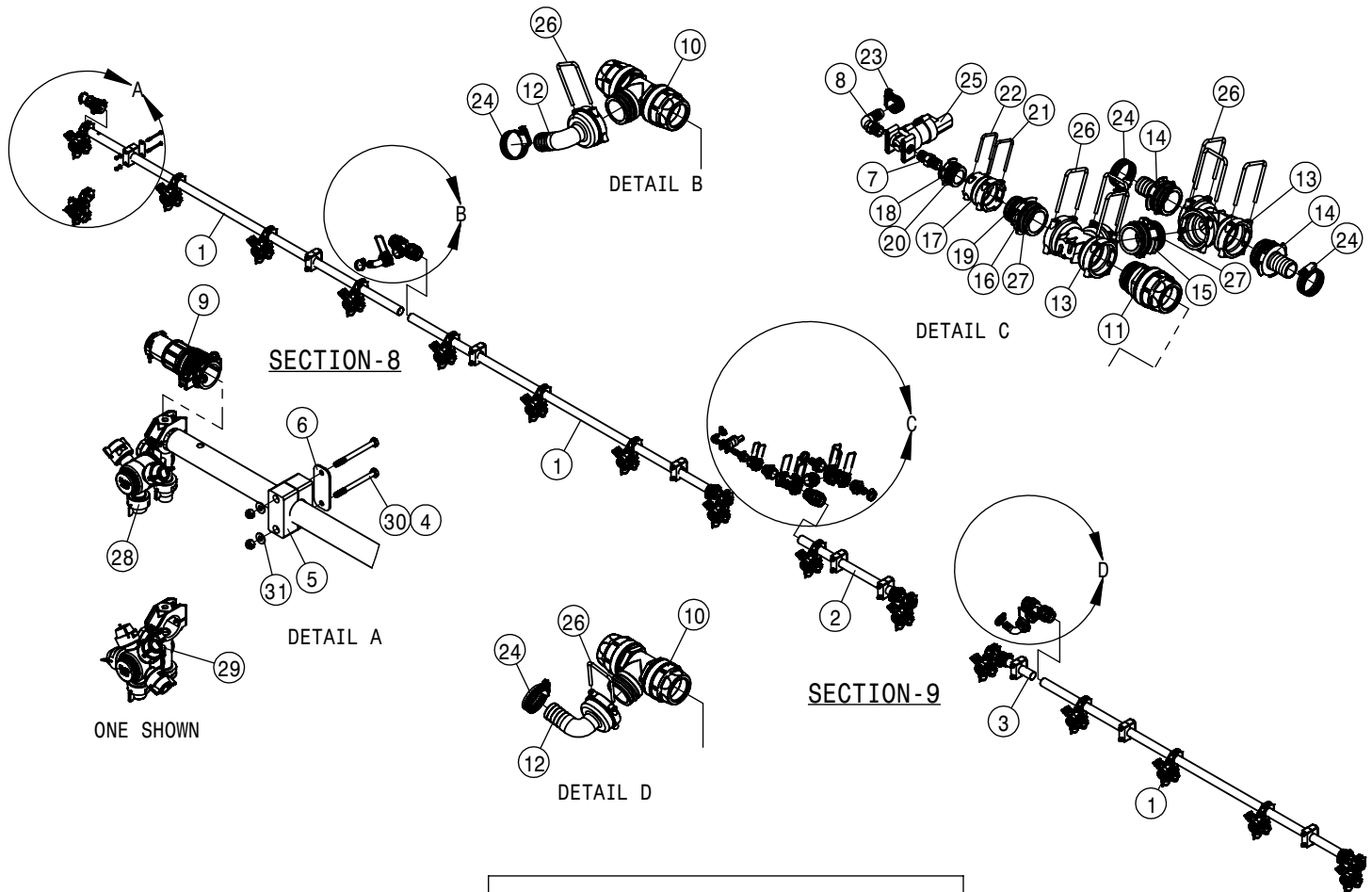
20" WET BOOM SPACING, SECTION 3-4 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167226	15" WET BOOM TUBE, 5.66 LG
2	2	167230	20" WET BOOM TUBE, 68.13 LG
3	2	167232	20" WET BOOM TUBE, 77.00 LG
4	1	167258	REMOTE TUBE MNT LH 20" 120'A
5	18	470089N	1/4UNC HEX NYLOC NUT, 316 SS
6	2	470121N	1/4 UNC SERR FLG LOCK NUT SS
7	2	470231N	1/4UNC X 1" SERR FLG BOLT SS
8	9	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
9	9	470376	COVER PLATE FOR 470375
10	4	500295	NOZZLE BODY END CAP
11	2	500296	EASY FIT TEE 1" PIPE
12	4	500298	EASY FIT END T5, 1" PIPE
13	5	500299	T5 TO 25MM HB 90
14	1	500307	T5 FEMALE TO 25MM HB
15	6	520090	HOSECLAMP NO 16 STAINLESS
16	6	737738	FORK,D.3 DIST.42 (737731)
17	18	737921	QUICK TJET 3-TIP BODY,1" HV
18	18	737925	QUICK TJET 5 + 1-TIP BODY 1"
19	18	900010N	1/4UNC X 3" HEX BOLT SS
20	18	920000N	1/4 SAE FLAT WASHER SS



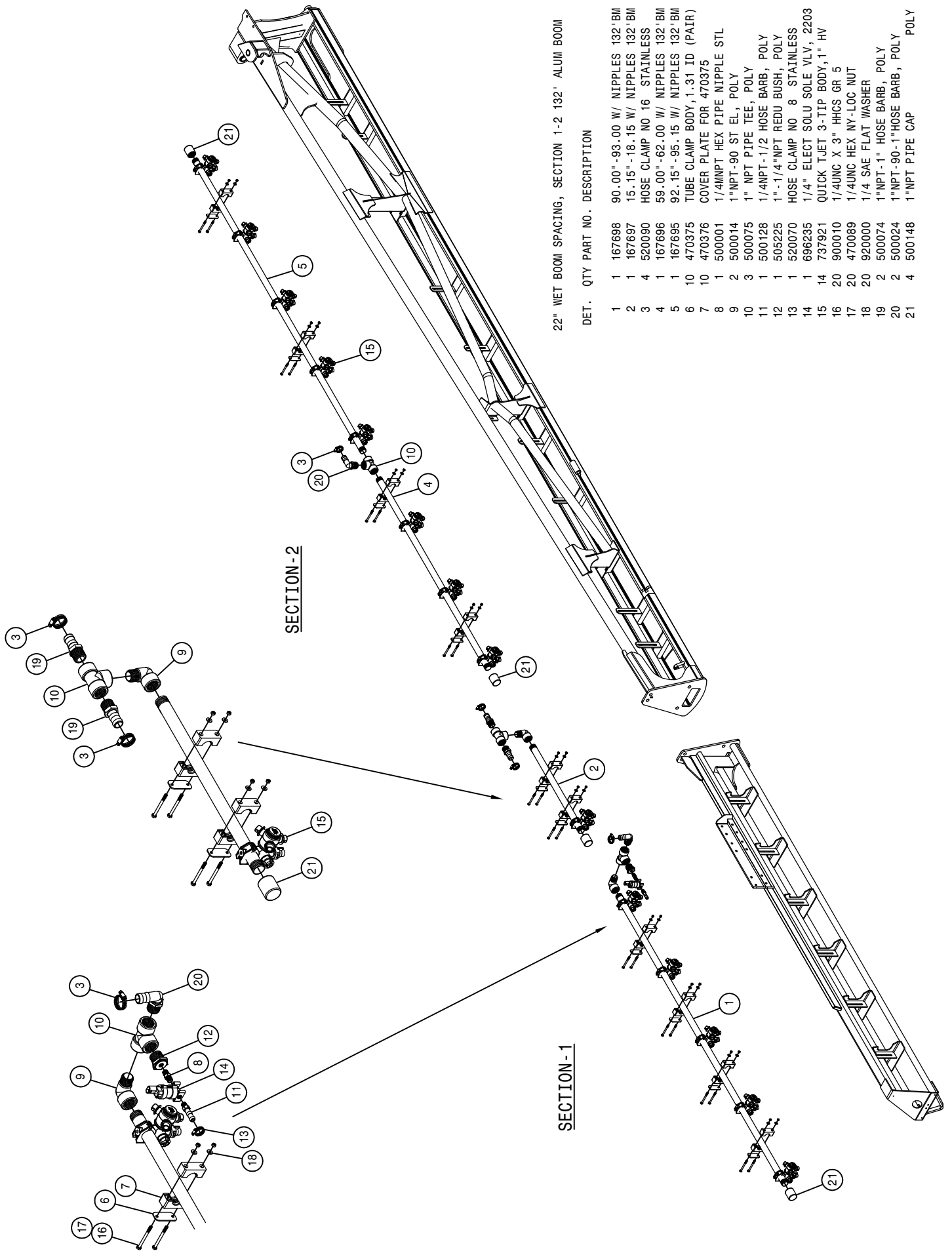
20" WET BOOM SPACING, SECTION-5 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	167237	20" WET BOOM TUBE, 65.66 LG
3	14	470113N	5/16UNC SERR FLG LOCK NUT SS
4	2	500295	NOZZLE BODY END CAP
5	1	500296	EASY FIT TEE 1" PIPE
6	1	500297	T5 TO 20MM HB 90
7	1	520080	HOSE CLAMP NO 10 STAINLESS
8	1	737738	FORK,D.3 DIST.42 (737731)
9	7	737921	QUICK TJET 3-TIP BODY,1" HV
10	7	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	14	900064S	5/16UNC X 3/4" HEX BOLT SS



20" WET BOOM SPACING, SECTION 6-7 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	2	167226	15" WET BOOM TUBE, 5.66 LG
2	2	167230	20" WET BOOM TUBE, 68.13 LG
3	2	167232	20" WET BOOM TUBE, 77.00 LG
4	1	167259	REMOTE TUBE MNT RH 20" 120'A
5	2	470121N	1/4 UNC SERR FLG LOCK NUT SS
6	2	470231N	1/4UNC X 1" SERR FLG BOLT SS
7	10	470376	COVER PLATE FOR 470375
8	4	500295	NOZZLE BODY END CAP
9	2	500296	EASY FIT TEE 1" PIPE
10	4	500298	EASY FIT END T5, 1" PIPE
11	5	500299	T5 TO 25MM HB 90
12	1	500307	T5 FEMALE TO 25MM HB
13	6	520090	HOSECLAMP NO 16 STAINLESS
14	6	737738	FORK,D.3 DIST.42 (737731)
15	18	737921	QUICK TJET 3-TIP BODY 1" HV
16	18	737925	QUICK TJET 5 + 1-TIP BODY 1"
17	10	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
18	20	900467	1/4UNC X 3 HHCS SS
19	20	910112	SAE FLAT WASHER 1/4 SS
20	20	910118	1/4-20UNC NYLOCK NUT SS



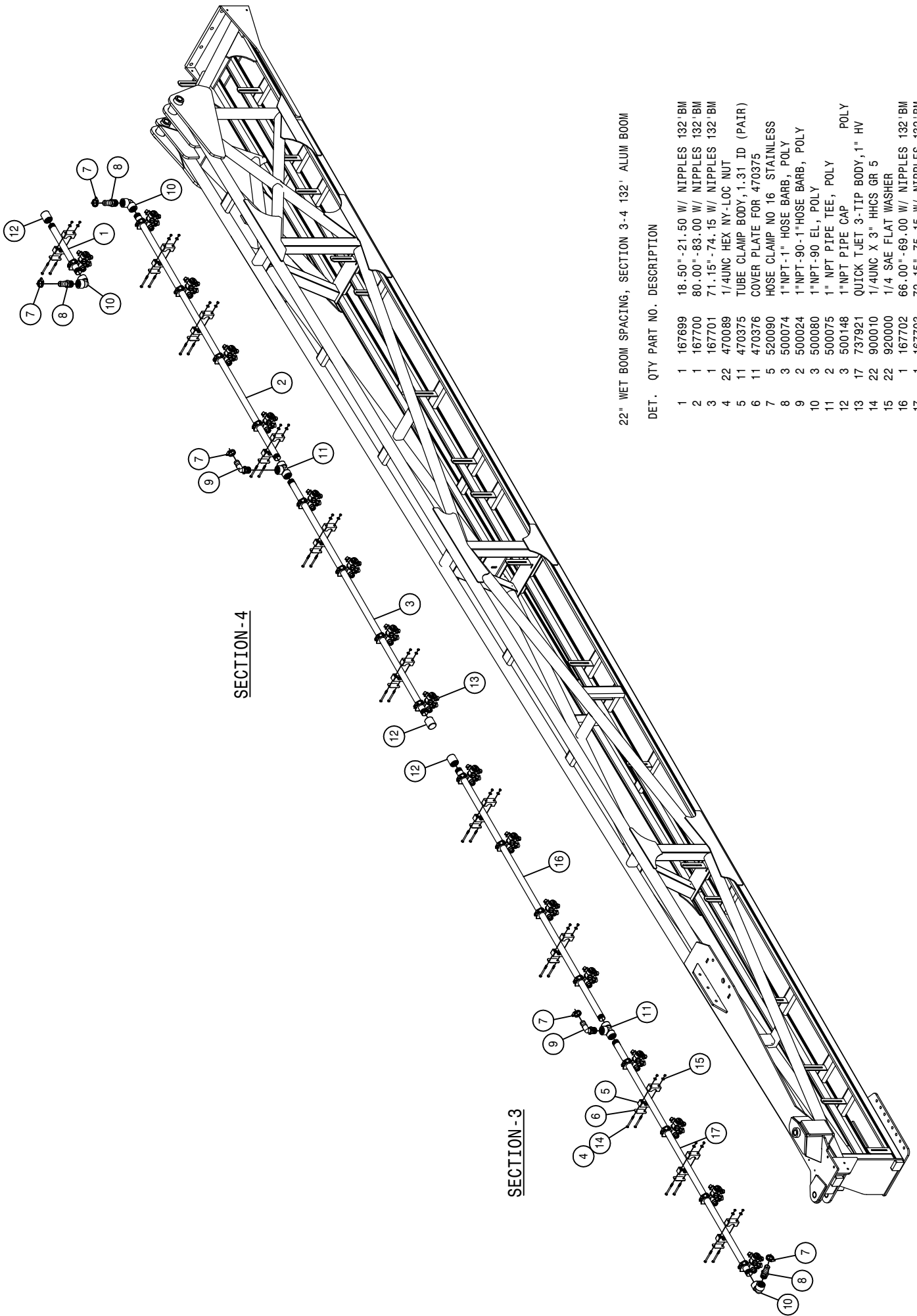
20" WET BOOM SPACING, SECTION 8-9 120' BOOM			
DET	QTY	P/N	DESCRIPTION
1	3	167230	20" WET BOOM TUBE, 68.13 LG
2	1	167233	20" WET BOOM TUBE, 23 LG
3	1	167234	20" WET BOOM TUBE, 8.13 LG
4	18	470089N	1/4UNC HEX NYLOC NUT, 316 SS
5	9	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	9	470376	COVER PLATE FOR 470375
7	1	500001	1/4MNPT HEX PIPE NIPPLE STL
8	1	500118	1/4"NPT-90-1/2"HOSE BARB, POLY
9	5	500295	NOZZLE BODY END CAP
10	2	500296	EASY FIT TEE 1" PIPE
11	1	500298	EASY FIT END T5, 1" PIPE
12	2	500299	T5 TO 25MM HB 90
13	2	500300	T5 FEMALE TEE
14	2	500301	T5 MALE TO 25MM HB
15	1	500302	T5 MALE COUPLER
16	1	500304	T5 - T4 MALE REDUCER
17	1	500305	T4 - T3 FEMALE REDUCER
18	1	500306	T3 MALE TO 1/4" NPT
19	1	500308	O-RING, 3.53MM X 28.17MM EPDM
20	1	500309	O-RING, 2.62MM X 25.07MM EPDM
21	1	500310	FORK D3 DIST 34.2
22	1	500311	FORK D3 DIST 29
23	1	520069	HOSE CLAMP NO 6 STAINLESS
24	4	520090	HOSECLAMP NO 16 STAINLESS
25	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
26	8	737738	FORK,D.3 DIST.42 (737731)
27	5	737763	O-RING, 1 1/4"CONN EPDM
28	15	737921	QUICK TJET 3-TIP BODY,1" HV
29	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
30	18	900010N	1/4UNC X 3" HEX BOLT SS
31	18	920000N	1/4 SAE FLAT WASHER SS



22" WET BOOM SPACING, SECTION 1-2 132' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

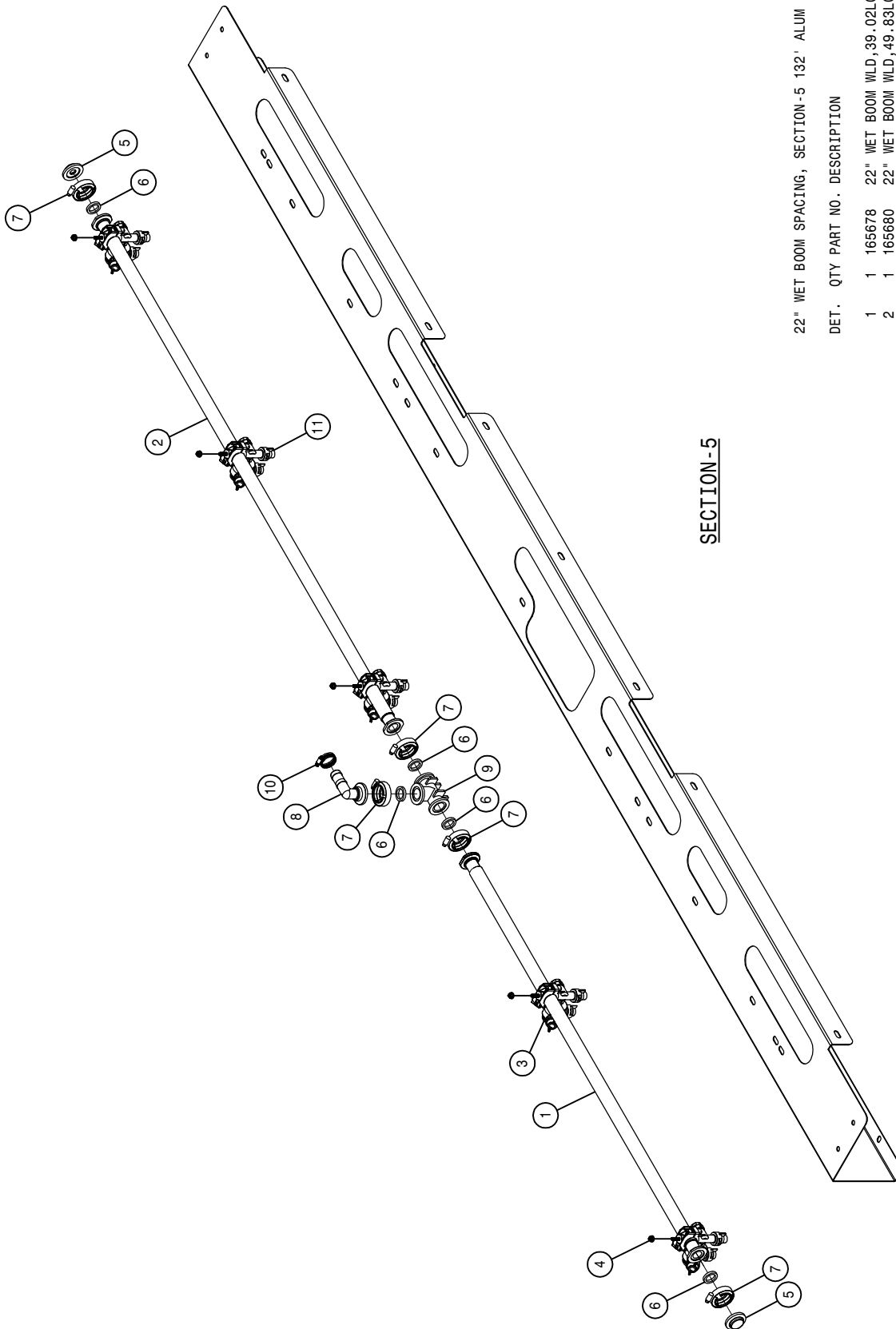
1	1	167698	90.00"-93.00 W/ NIPPLES 132' BM
2	1	167697	15.15"-18.15 W/ NIPPLES 132' BM
3	4	520090	HOSE CLAMP NO 16 STAINLESS
4	1	167696	59.00"-62.00 W/ NIPPLES 132' BM
5	1	167695	92.15"-95.15 W/ NIPPLES 132' BM
6	10	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
7	10	470376	COVER PLATE FOR 470375
8	1	500001	1/4MMPT HEX PIPE NIPPLE STL
9	2	500014	1"NPT-90 ST EL, POLY
10	3	500075	1" NPT PIPE TEE, POLY
11	1	500128	1/4NPT-1/2 HOSE BARB, POLY
12	1	505225	1"-1/4"NPT REDU BUSH, POLY
13	1	520070	HOSE CLAMP NO 8 STAINLESS
14	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
15	14	737921	QUICK TJET 3-TIP BODY, 1" HV
16	20	900010	1/4UNC X 3" HHGS GR 5
17	20	470089	1/4UNC HEX NY-LOC NUT
18	20	920000	1/4 SAE FLAT WASHER
19	2	500074	1"NPT-1" HOSE BARB, POLY
20	2	500024	1"NPT-90-1"HOSE BARB, POLY
21	4	500148	1"NPT P PIPE CAP POLY



22" WET BOOM SPACING, SECTION 3-4 132' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

DET.	QTY	PART NO.	DESCRIPTION
1	1	167699	18.50"-21.50 W/ NIPPLES 132' BM
2	1	167700	80.00"-83.00 W/ NIPPLES 132' BM
3	1	167701	71.15"-74.15 W/ NIPPLES 132' BM
4	22	470089	1/4UNC HEX NY-LOC NUT
5	11	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
6	11	470376	COVER PLATE FOR 470375
7	5	520090	HOSE CLAMP NO 16 STAINLESS
8	3	500074	1"NPT-1" HOSE BARB, POLY
9	2	500024	1"NPT-90-1" HOSE BARB, POLY
10	3	500080	1"NPT-90 EL, POLY
11	2	500075	1" NPT PIPE TEE, POLY
12	3	500148	1"NPT PIPE CAP
13	17	737921	QUICK T-JET 3-TIP BODY, 1" HV
14	22	900010	1/4UNC X 3" HHCS GR 5
15	22	920000	1/4 SAE FLAT WASHER
16	1	167702	66.00"-69.00 W/ NIPPLES 132' BM
17	1	167703	72.15"-75.15 W/ NIPPLES 132' BM

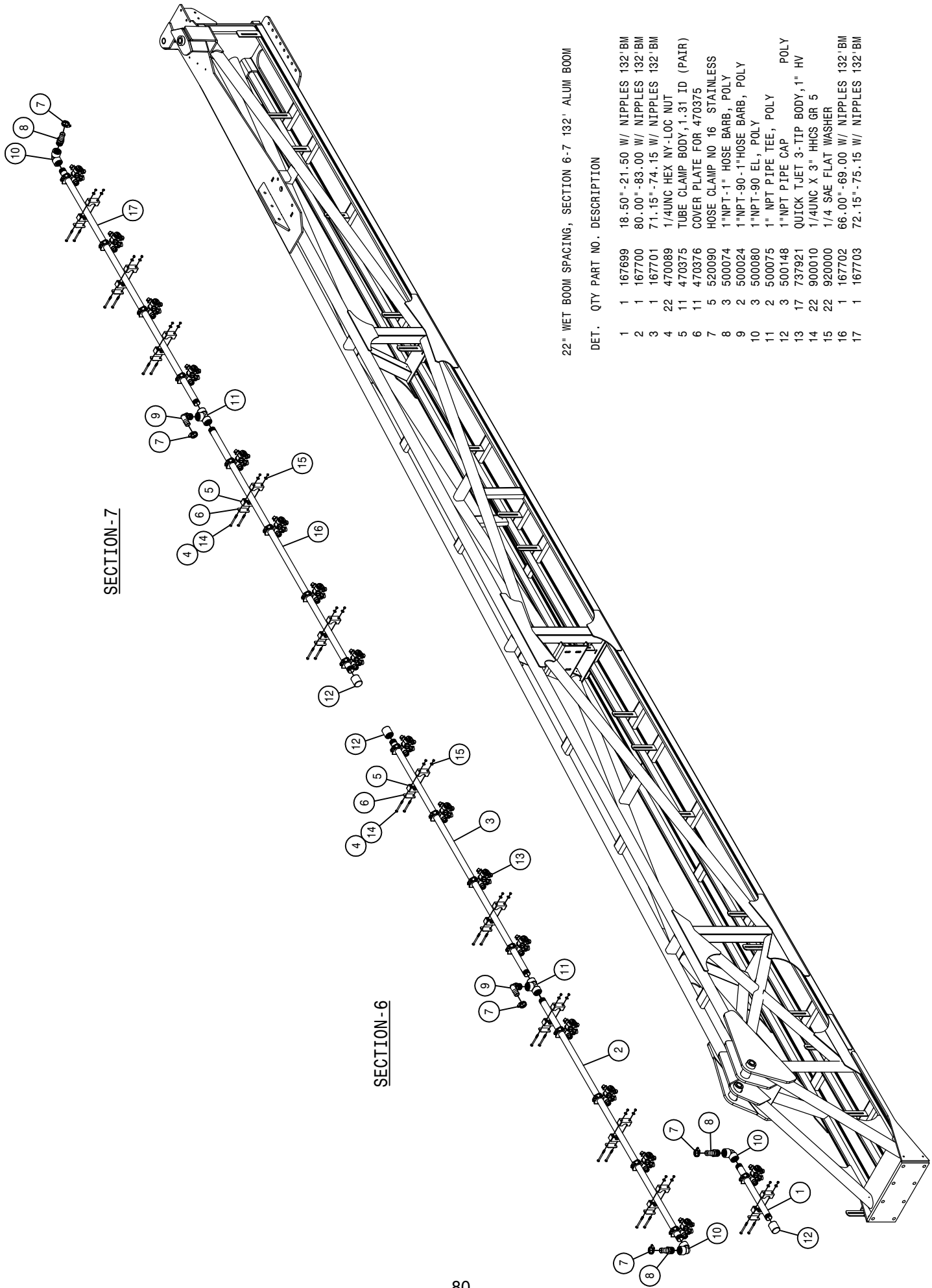


SECTION-5

22" WET BOOM SPACING, SECTION-5 '132' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

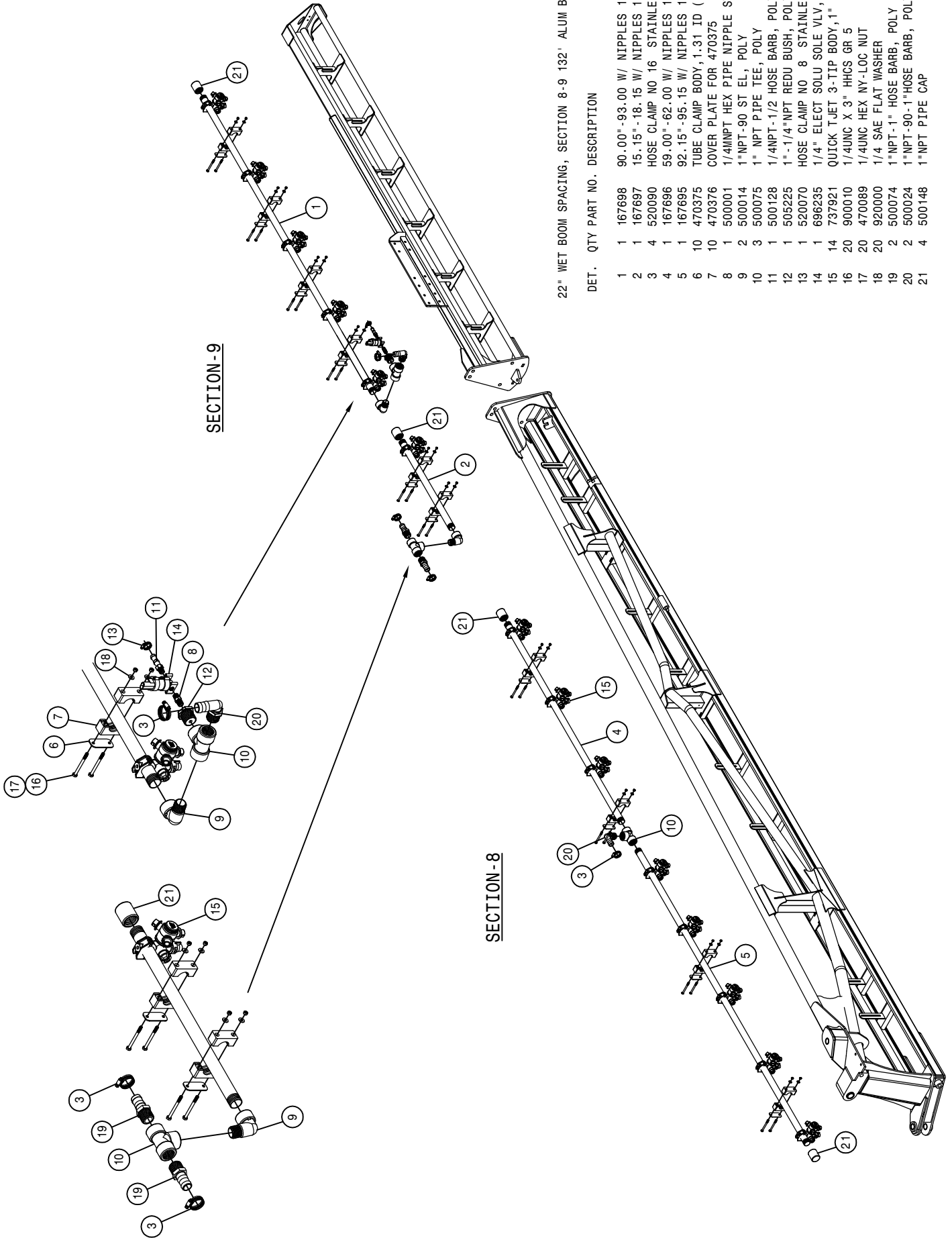
1	1	165678	22" WET BOOM WLD,39.02LG	'12
2	1	165680	22" WET BOOM WLD,49.83LG	'12
3	7	900064	5/16UNC X 3/4 HHCS GR 5	
4	7	470113	5/16UNC SER FLG LOCK NUT	POLY
5	2	500155	1" FLANGE CAP PLUG	EPDM
6	5	500157	1" FLANGE GASKET	
7	5	500159	1" FLANGE CLAMP, S.S.	
8	1	500173	1" FLANGE-90-1" HOSE BARB	POLY
9	1	500175	1" FLANGE TEE	POLY
10	1	520090	HOSE CLAMP NO 16	STAINLESS
11	5	737921	QUICK TJET 3-TIP BODY,1" HV	



22" WET BOOM SPACING, SECTION 6-7 132' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

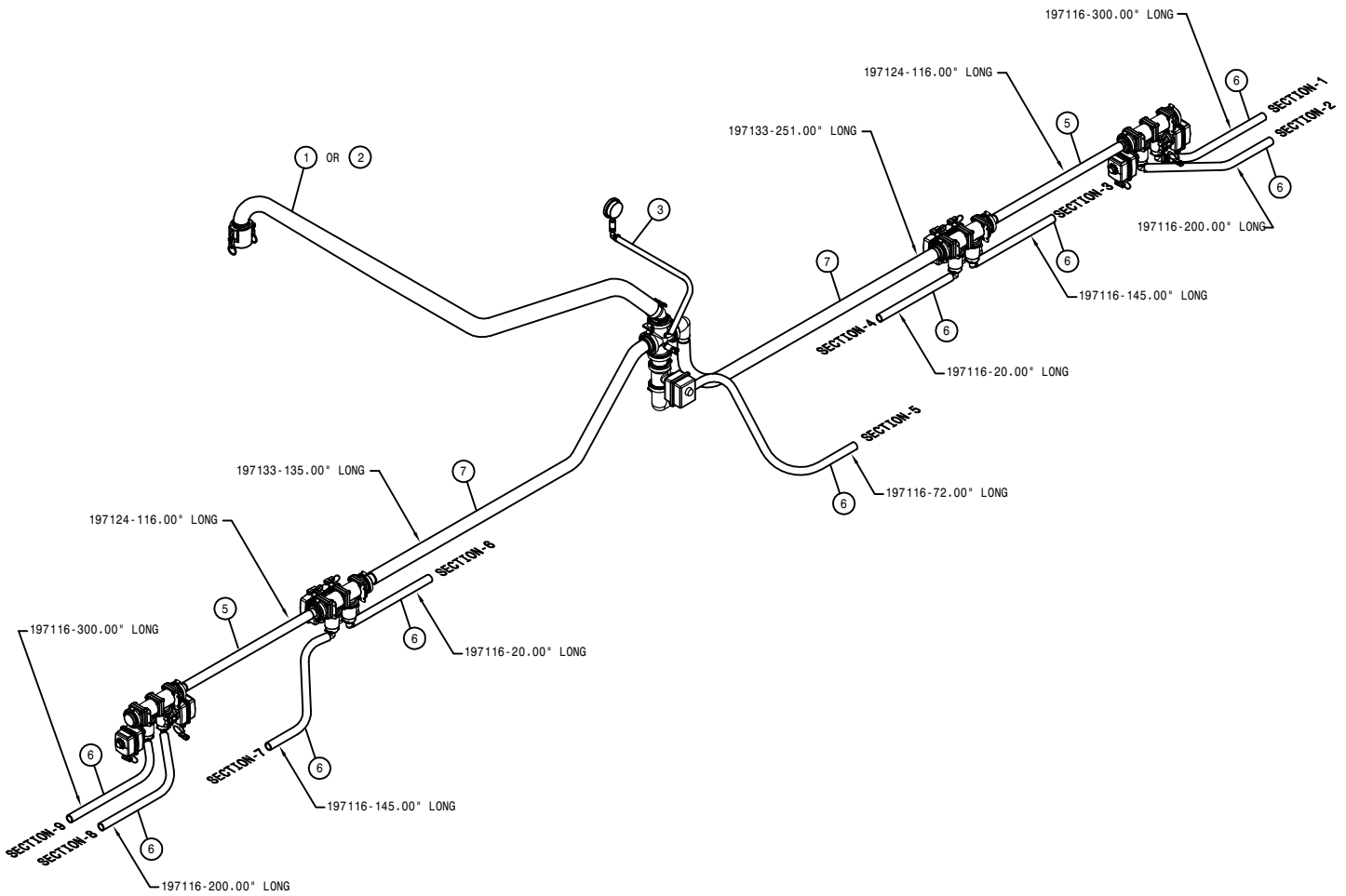
DET.	QTY	PART NO.	DESCRIPTION
1	1	167699	18.50"-21.50 W/ NIPPLES 132' BM
2	1	167700	80.00"-83.00 W/ NIPPLES 132' BM
3	1	167701	71.15"-74.15 W/ NIPPLES 132' BM
4	22	470089	1/4UNC HEX NY-LOC NUT
5	11	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
6	11	470376	COVER PLATE FOR 470375
7	5	520090	HOSE CLAMP NO 16 STAINLESS
8	3	500074	1"NPT-1" HOSE BARB, POLY
9	2	500024	1"NPT-90-1" HOSE BARB, POLY
10	3	500080	1"NPT-90 EL, POLY
11	2	500075	1" NPT PIPE TEE, POLY
12	3	500148	1"NPT PIPE CAP POLY
13	17	737921	QUICK TJET 3-TIP BODY, 1" HV
14	22	900010	1/4UNC X 3" HHCS GR 5
15	22	920000	1/4 SAE FLAT WASHER
16	1	167702	66.00"-69.00 W/ NIPPLES 132' BM
17	1	167703	72.15"-75.15 W/ NIPPLES 132' BM



22" WET BOOM SPACING, SECTION 8-9 132' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

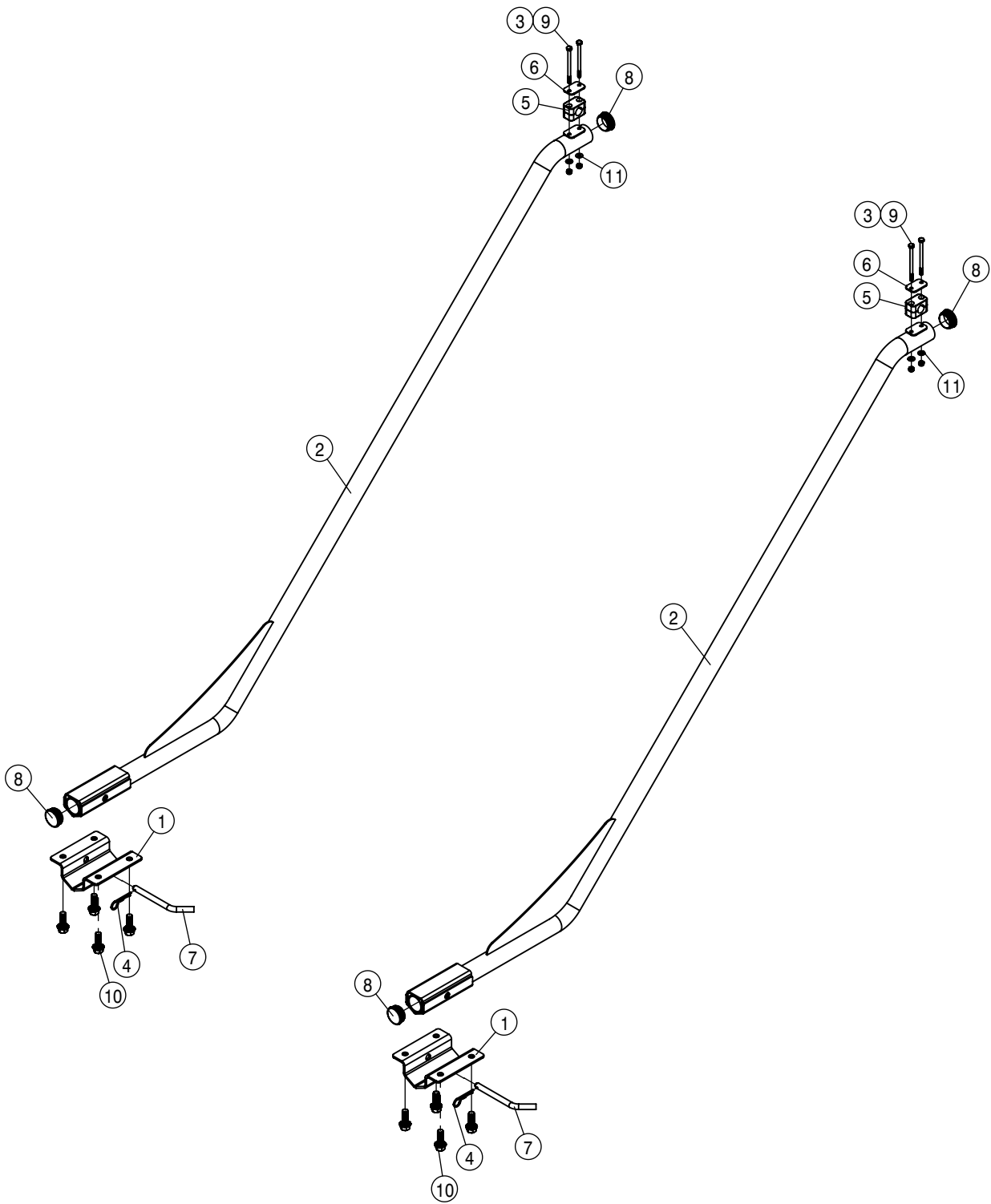
DET.	QTY	PART NO.	DESCRIPTION
1	1	167698	90.00" -93.00 W/ NIPPLES 132' BM
2	1	167697	15.15" -18.15 W/ NIPPLES 132' BM
3	4	520090	HOSE CLAMP NO 16 STAINLESS
4	1	167696	59.00" -62.00 W/ NIPPLES 132' BM
5	1	167695	92.15" -95.15 W/ NIPPLES 132' BM
6	10	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
7	10	470376	COVER PLATE FOR 470375
8	1	500001	1/4MNPT HEX PIPE NIPPLE STL
9	2	500014	1" NPT-90 ST EL, POLY
10	3	500075	1" NPT PIPE TEE, POLY
11	1	500128	1/4NPT-1/2 HOSE BARB, POLY
12	1	505225	1"-1/4" NPT REDU BUSH, POLY
13	1	520070	HOSE CLAMP NO 8 STAINLESS
14	1	696235	1/4" ELECT SOLU SOLE VLV, 2203
15	14	737921	QUICK T-JET 3-TIP BODY, 1" HV
16	20	900010	1/4UNC X 3" HHCS GR 5
17	20	470089	1/4UNC HEX NY-LOC NUT
18	20	920000	1/4 SAE FLAT WASHER
19	2	500074	1" NPT-1" HOSE BARB, POLY
20	2	500024	1" NPT-90-1" HOSE BARB, POLY
21	4	500148	1" NPT PIPE CAP POLY



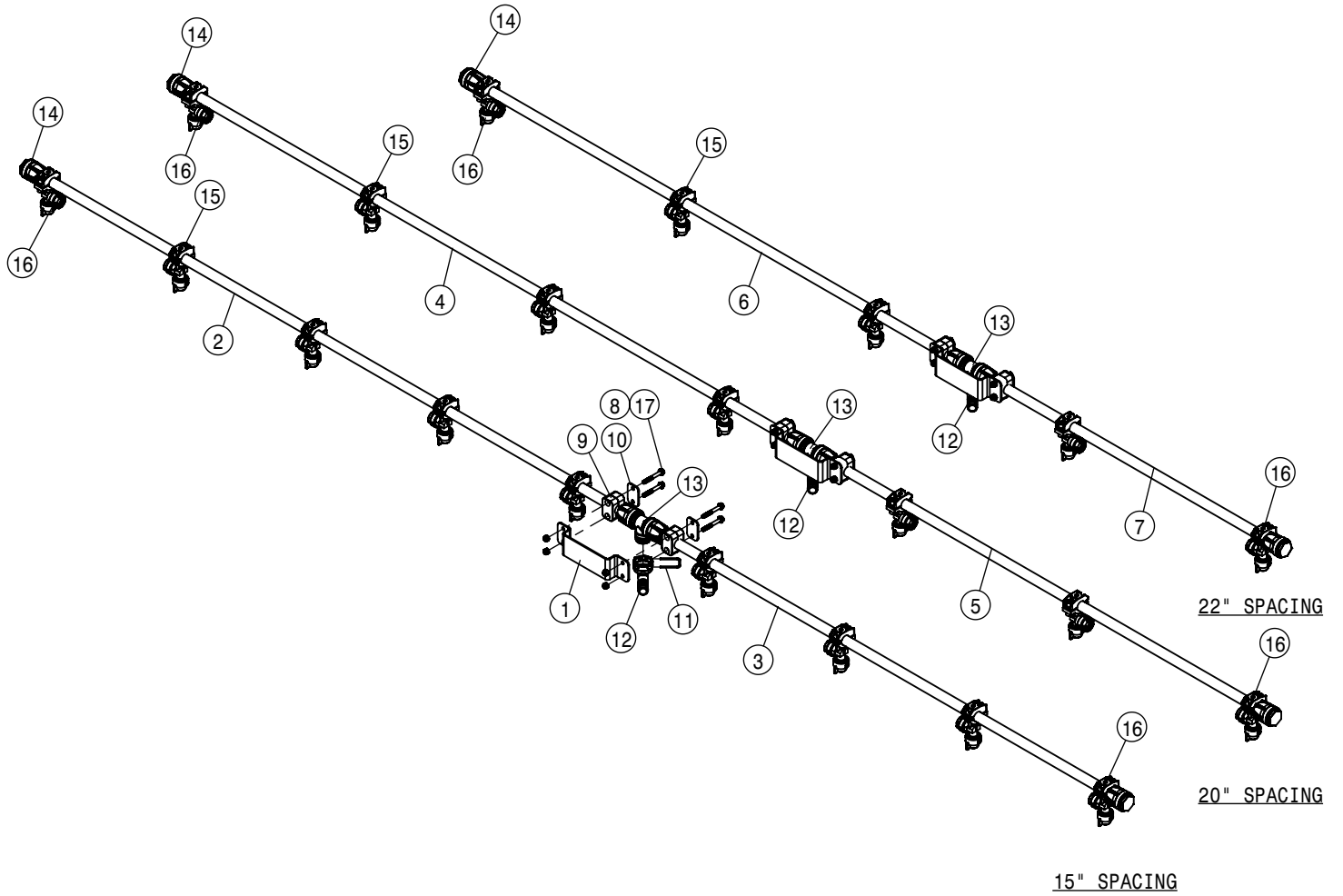
SOLUTION HOSEING 120' ALUM BOOM

DET. QTY PART NO. DESCRIPTION

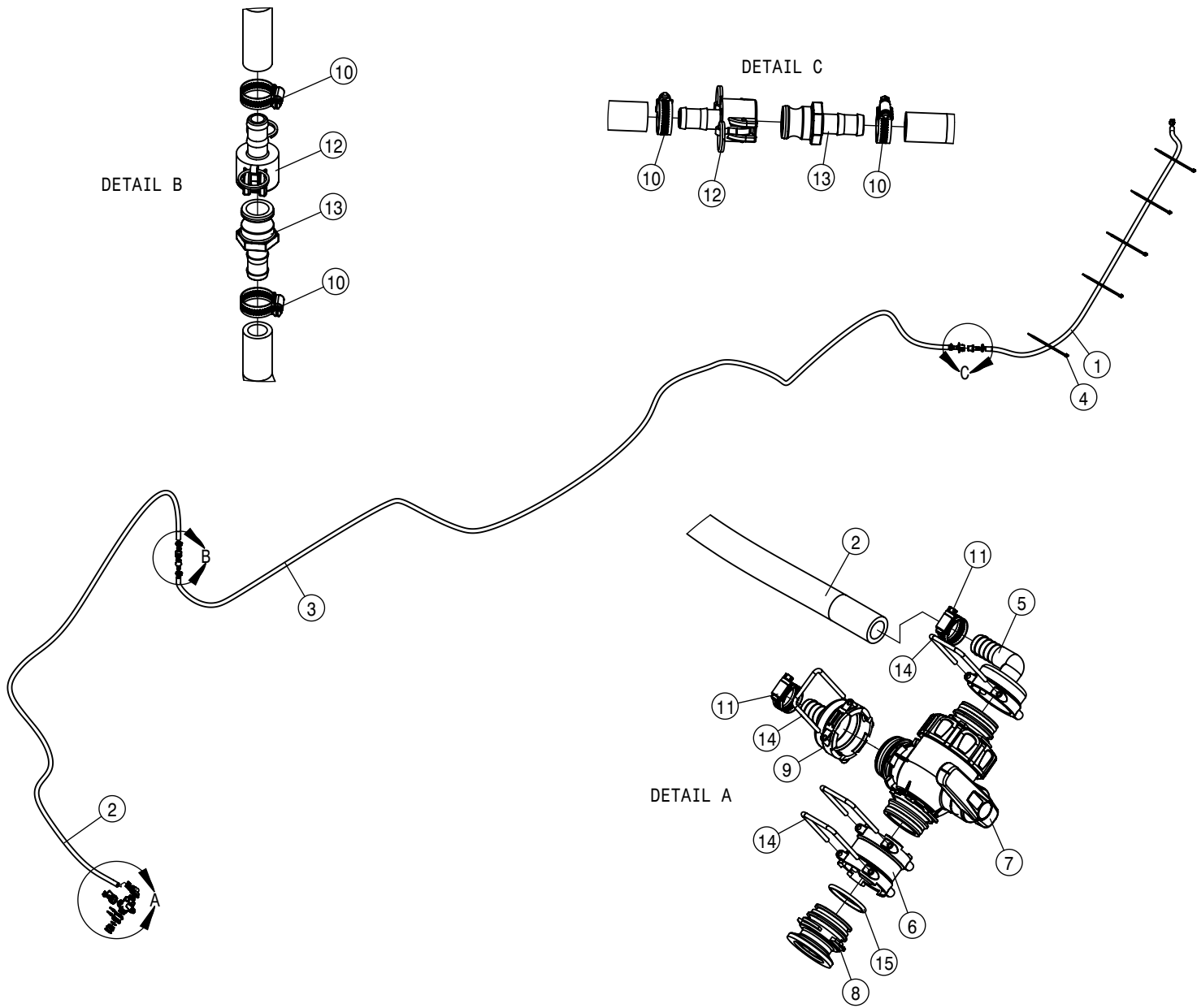
DET.	QTY	PART NO.	DESCRIPTION
1	1	601082	HOSE, 2 X 95 2F-1W EPDM
2	1	601909	HOSE, 2 x 105 2F-1W EPDM
3	1	601634	HOSE, 1/2 X 78 1BR BLK EPDM
4	2	197133	HOSE 2" SUCTION, 2F-1W EPDM
5	2	197124	HOSE 1 1/2 2-FBR BR BLK EPDM
6	11	197116	HOSE 1IN 1-FBR BR BLK EPDM



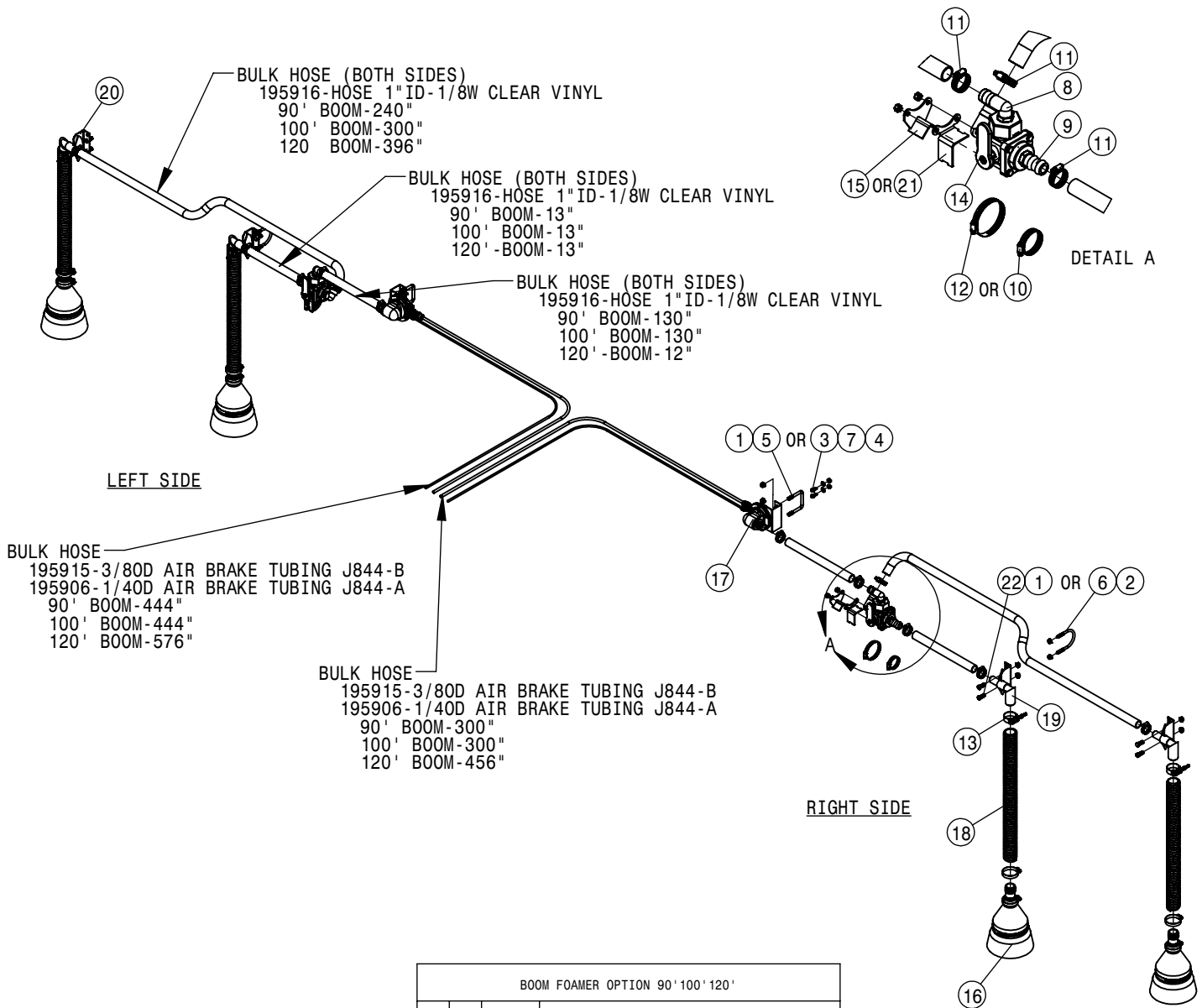
REAR BOOM MOUNTING ASSEMBLY			
DET	QTY	P/N	DESCRIPTION
1	2	165083	REAR BOOM MNT BRACKET
2	2	165087	REAR BOOM WLD
3	4	470089N	1/4UNC HEX NYLOC NUT, 316 SS
4	2	470235	HAIR PIN, 1/8 DIA X 2 1/2 LG
5	2	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
6	4	470359	COVER PLATE FOR 470358
7	2	472382	BENT PIN 1/2 X 4
8	4	629772	CAPPLUGS PLUG, 1 3/4" RD, BLACK POLY
9	4	900013N	1/4UNC X 3 3/4 HEX BOLT SS
10	8	900265N	1/2UNC X 1 1/2 SERR FLANGE BOLT
11	4	920000N	1/4 SAE FLAT WASHER SS



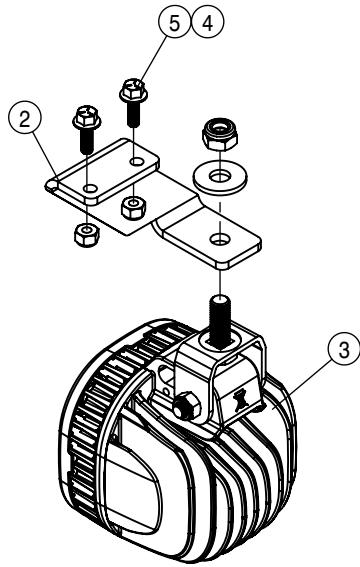
REAR BOOM NOZZLE SPACING			
DET	QTY	P/N	DESCRIPTION
1	3	165088	REAR BM SOL SUPP BRK
2	1	167264	TUBE-WET BM .50X69.08 15"SP
3	1	167265	TUBE-WET BM .50X54.08 15" SP
4	1	167466	TUBE-WET BM .5X71.58 20"SP
5	1	167467	TUBE-WET BM .5X51.58 20"SP
6	1	167468	TUBE-WET BM .5X56.58 22" SP
7	1	167469	TUBE-WET BM .5X34.58 22"SP
8	12	470089N	1/4UNC HEX NYLOC NUT, 316 SS
9	6	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
10	6	470359	COVER PLATE FOR 470358
11	3	500311	FORK D3 DIST 29
12	3	500327	T3 TO 20MM HB 90
13	3	500330	T3 - TEE 1/2" PIPE BOOM END
14	6	500332	1/2" PIPE BOOM END
15	15	737970	QUICK TJET SINGLE BODY, 1/2"
16	6	737971	QUICK TJET SINGLE BODY 1/2" RS
17	12	900007N	1/4 UNC X 2 SER FLG BOLT SS



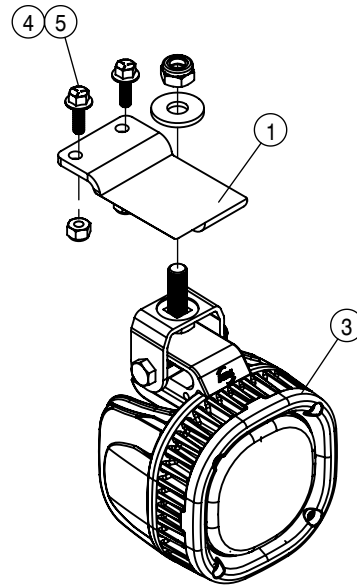
REAR BOOM SOLUTION HOISING			
DET	QTY	P/N	DESCRIPTION
1	1	197121-093	HOSE 3/4 2-FBR BR BLK EPDM
2	1	197121-170	HOSE 3/4 2-FBR BR BLK EPDM
3	1	197121-306	HOSE 3/4 2-FBR BR BLK EPDM
4	5	470555	CABLE TIE, 1/2 X 15" BLACK NYL
5	1	500297	T5 TO 20MM HB 90
6	1	503112	T5 - FEMALE COUPLING
7	1	503113	T5 - 455 3-WAY BALL VLV
8	1	503114	T5 - 1" BANGO FLANGE ADAPTR
9	1	503115	T5 FEM - 20MM HOSE BARB
10	5	520055	HOSE CLAMP NO 12 STAINLESS
11	2	520080	HOSE CLAMP NO 10 STAINLESS
12	2	696207	.75 HOSE BARB-FEMALE COUPLER
13	2	696208	.75 HOSE BARB-MALE COUPLER
14	4	737738	FORK,D.3 DIST.42 (737731)
15	1	737763	O-RING, -221 EPDM



BOOM FOAMER OPTION 90' 100' 120'			
DET	QTY	P/N	DESCRIPTION
1	12	470087	3/8UNC HEX SERR FLANGE NUT
2	4	470113	5/16UNC SERR FLG LOCK NUT
3	4	470118	1/4 UNC X 3/4 SER FLG BOLT
4	4	470121	1/4 UNC SERR FLG LOCK NUT
5	2	472036	3/8UNC-2.63ID-2.88 U-BOLT SQ
6	2	472195	5/16UNC-2 11/16ID-3 9/16U-BOLT
7	4	483038	1/4 REGULAR FLAT WASHER
8	4	500026	3/4NPT-90-1"HOSE BARB, POLY
9	2	500123	3/4NPT-1"HOSE BARB, POLY
10	2	520085	HOSE CLAMP NO 24 STAINLESS
11	12	520090	HOSECLAMP NO 16 STAINLESS
12	2	520099	HOSE CLAMP NO 40 STAINLESS
13	4	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
14	2	696003	BALL VLV,3/4NPT 3WAY-SIDE POLY
15	2	701191	1" SOLU VLV MT WLD
16	4	701290	1 1/2" COLLECTOR DEFLECTOR
17	2	701296	RICHWAY FOAMHEAD ASSEMBLY
18	4	701334	2' DROP HOSE 1 1/2"
19	2	701335	RH FOAMER DROP HOSE SWIV WLD
20	2	701336	LH FOAMER DROP HOSE SWIV WLD
21	2	701343	BALL VLV BRKT 120' BOOM
22	8	900129	3/8UNC X 1" HEX BOLT

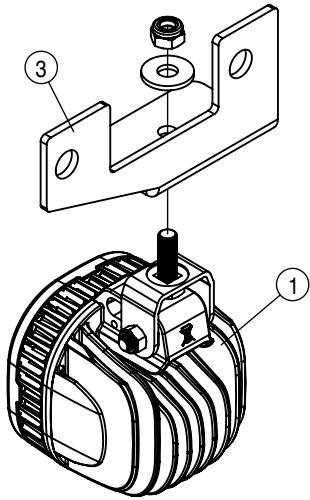


RIGHT SIDE

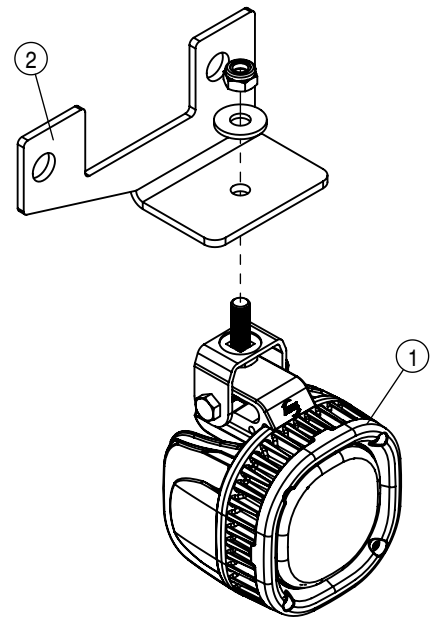


LEFT SIDE

NIGHT SPRAY ASSEMBLY 90/100				
DET	QTY	P/N	DESCRIPTION	
1	1	167822	LH NIGHT SPRAY 90' / 100' BRKT	
2	1	167823	RH NIGHT SPRAY 90' / 100' BRKT	
3	2	290014	LIGHT, 1010L4-BLUE POINT	
4	4	470089	1/4-20UNC NYLOCK NUT MC GR5	
5	4	470118	1/4UNC X 3/4 HHSFB GR5 MC	



RIGHT SIDE

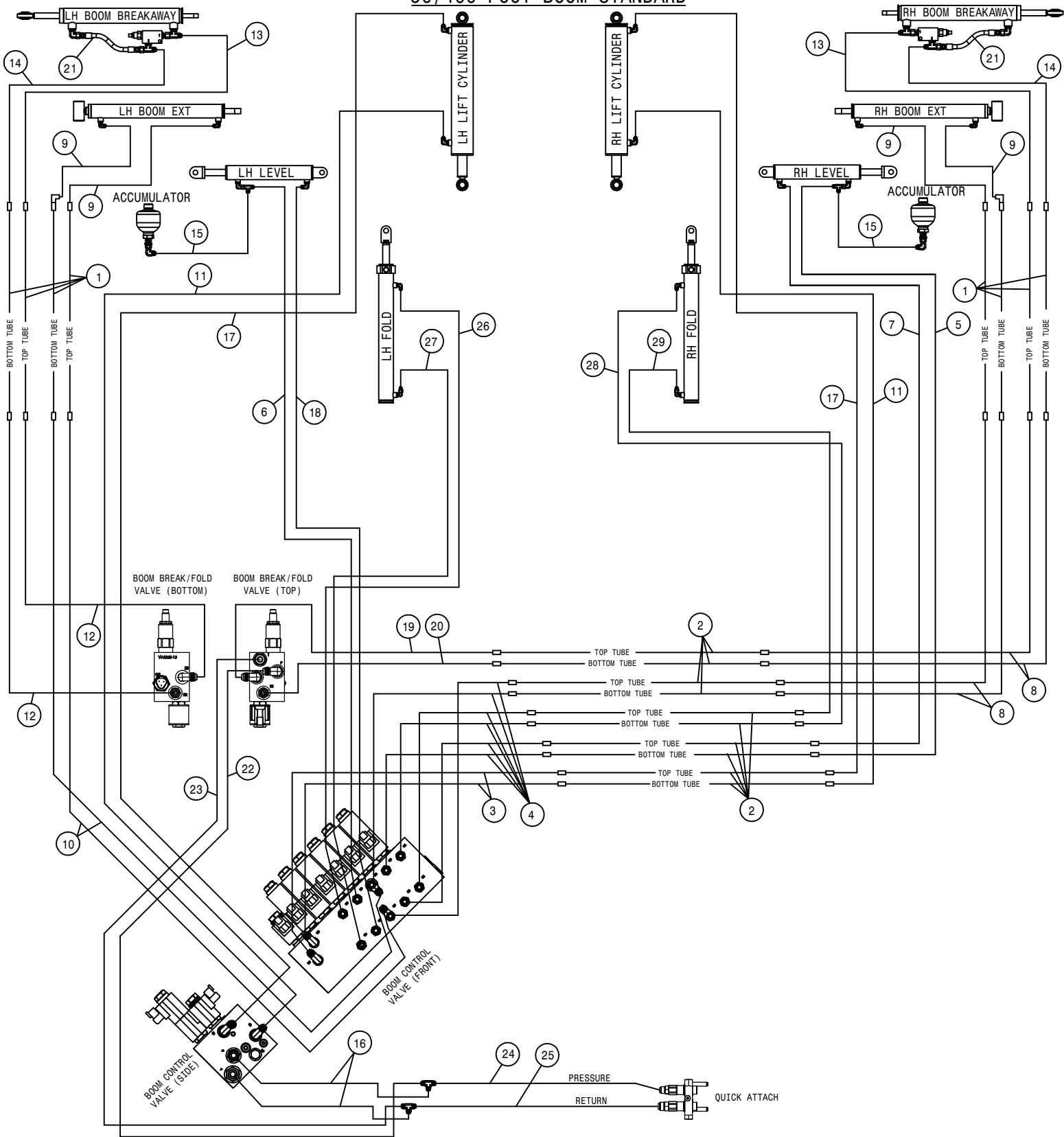


LEFT SIDE

NIGHT SPRAY ASSEMBLY 120/132			
DET	QTY	P/N	DESCRIPTION
1	2	290014	LIGHT, 1010L4-BLUE POINT
2	1	317495	LH NIGHT SPRAY BRKT 120
3	1	317496	RH NIGHT SPRAY BRKT 120

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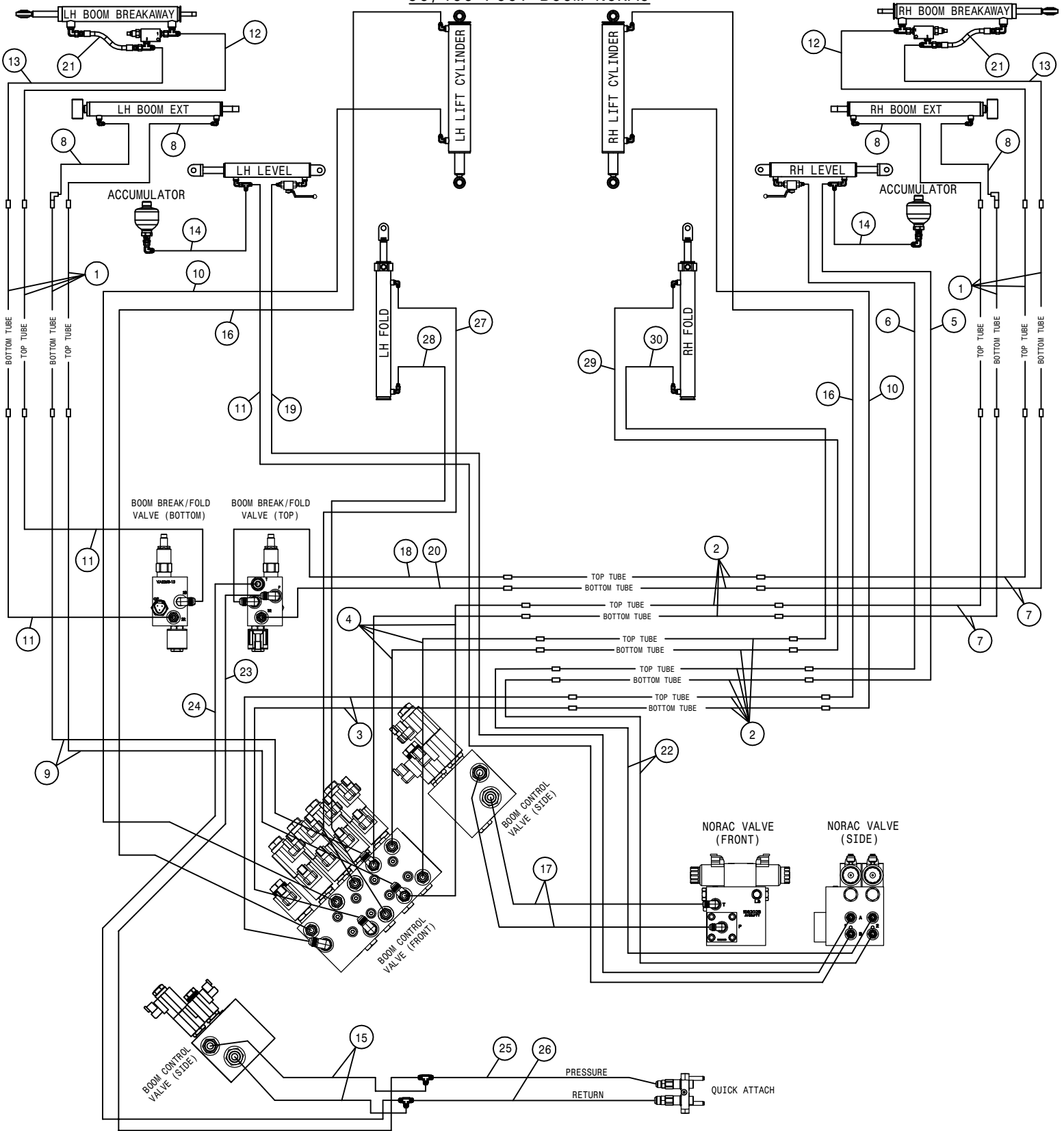
90/100 FOOT BOOM-STANDARD



90/100 BOOM STANDARD HYD DIAG 2017
 REFERENCE DRAWING NO. 499369_RevA

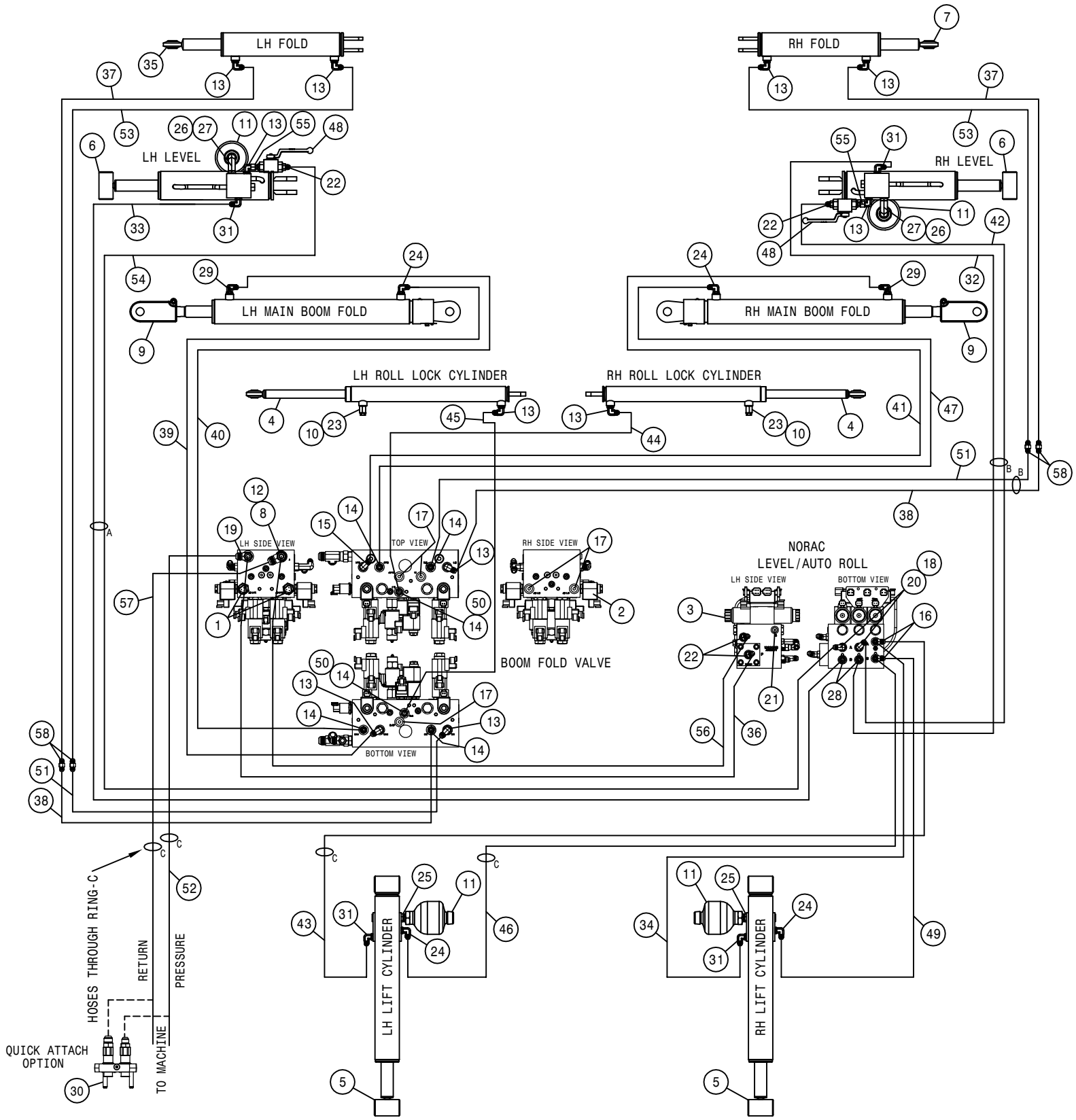
DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION
1	8	615851	HYD TUBE,MAIN BOOM,STS	16	2	616366	08-451TC-08FJX-08FJX90-18 H/A
2	10	615852	LIFTARM HYD TUBE ASSY,STSL5 07	17	2	616371	06-451TC-06FJX-06FJX-38 H/A
3	2	616304	06-451TC-06FJX-06FJX-36 H/A	18	1	616403	06-451TC-06FJX-06FJX-65 H/A
4	6	616316	06-451TC-06FJX-06FJX45-18 H/A	19	1	616578	06-451TC-06FJX-06FJX90-18 H/A
5	1	616348	06-451TC-06FJX-06FJX-42 H/A	20	1	616740	06-451TC-06FJX-06FJX-20 H/A
6	1	616349	06-451TC-06FJX-06FJX-47 H/A	21	2	617054	04-451TC-06FJX-06FJX-11 H/A
7	1	616351	06-451TC-06FJX-06FJX-60 H/A	22	1	617192	06-451TC-06FJX-08FJX-33 H/A
8	4	616353	06-451TC-06FJX-06FJX-71 H/A	23	1	617193	06-451TC-08FJX-08FJX90-33 H/A
9	4	616356	06-451TC-06FJX-06FJX90-27 H/A	24	1	617194	08-451TC-08FJX-10FJX-50 H/A
10	2	616357	06-451TC-06FJX-06FJX90-79 H/A	25	1	617195	08-451TC-08FJX-12FJX-50 H/A
11	2	616358	06-451TC-06FJX-06FJX-56 H/A	26	1	617507	04-451TC-04FJX-04FJX-44 H/A
12	2	616359	06-451TC-06FJX-06FJX-78 H/A	27	1	617508	04-451TC-06FJX-06FJX45-65 H/A
13	2	616360	06-451TC-06FJX-06FJX-84 H/A	28	1	617509	04-451TC-04FJX-06FJX90-30 H/A
14	2	616361	06-451TC-06FJX-06FJX-86 H/A	29	1	617510	04-451TC-06FJX-06FJX45-54 H/A
15	2	616365	06-451TC-08FJX-06FJX90-30 H/A				

90/100 FOOT BOOM-NORAC



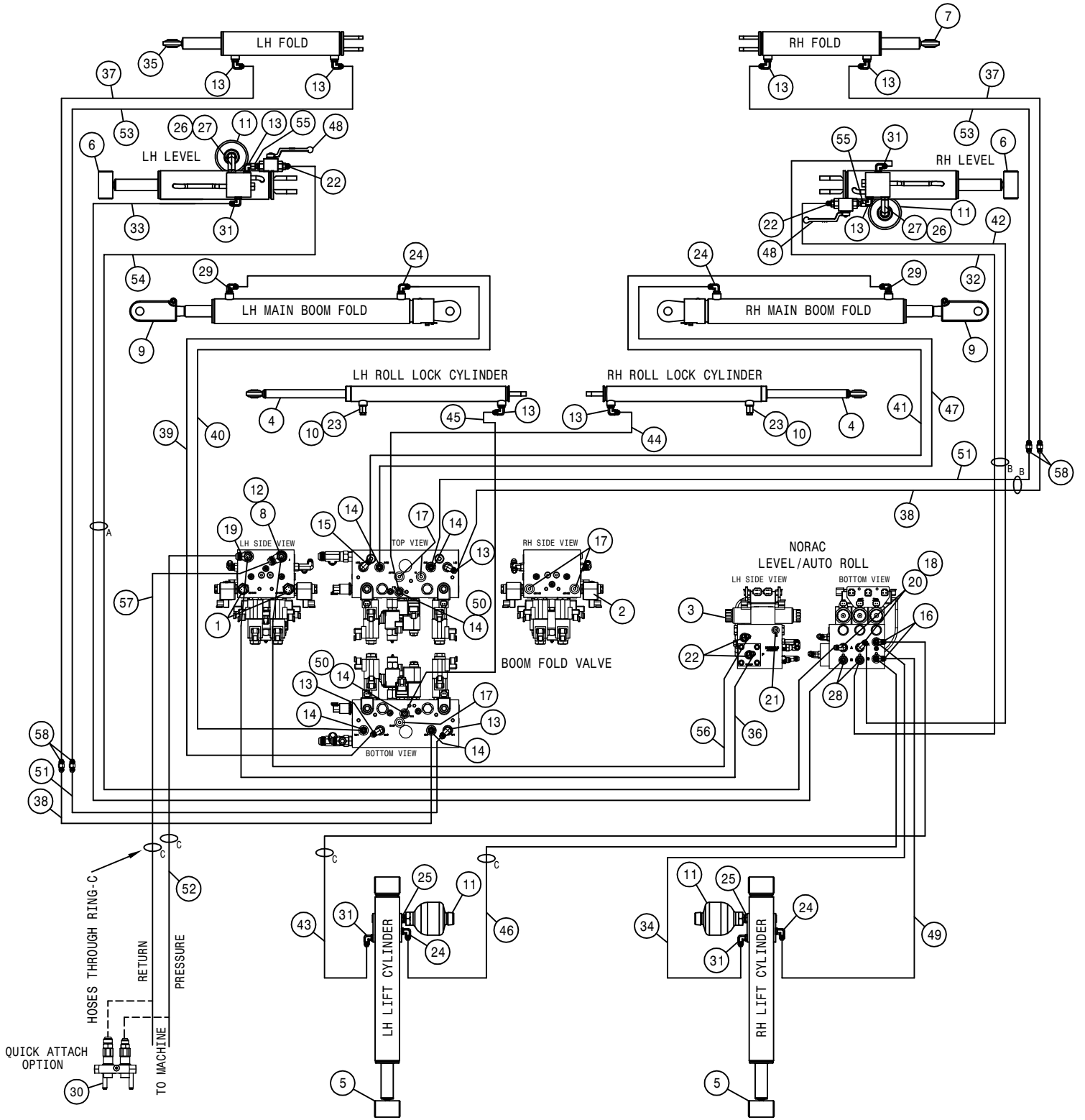
90/100 BOOM NORAC HYD DIAG 2017
REFERENCE DRAWING NO. 499370_RevA

DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION		
1	8	615851	HYD TUBE,MAIN BOOM,STS	16	2	616371	06-451TC-06FJX-06FJX-38	H/A	
2	10	615852	LIFTARM HYD TUBE ASSY,STSL5 07	17	2	616556	08-451TC-06FJX-08FJX90-31	H/A	
3	2	616304	06-451TC-06FJX-06FJX-36	H/A	18	1	616578	06-451TC-06FJX-06FJX90-18	H/A
4	4	616316	06-451TC-06FJX-06FJX45-18	H/A	19	1	616611	06-451TC-06FJX-06FJX-91	H/A
5	1	616348	06-451TC-06FJX-06FJX-42	H/A	20	1	616740	06-451TC-06FJX-06FJX-20	H/A
6	1	616351	06-451TC-06FJX-06FJX-60	H/A	21	2	617054	04-451TC-06FJX-06FJX-11	H/A
7	4	616353	06-451TC-06FJX-06FJX-71	H/A	22	2	617191	06-451TC-06FJX-06FJX45-39	H/A
8	4	616356	06-451TC-06FJX-06FJX90-27	H/A	23	1	617192	06-451TC-06FJX-08FJX-33	H/A
9	2	616357	06-451TC-06FJX-06FJX90-79	H/A	24	1	617193	06-451TC-08FJX-08FJX90-33	H/A
10	2	616358	06-451TC-06FJX-06FJX-56	H/A	25	1	617194	08-451TC-08FJX-10FJX-50	H/A
11	3	616359	06-451TC-06FJX-06FJX-78	H/A	26	1	617195	08-451TC-08FJX-12FJX-50	H/A
12	2	616360	06-451TC-06FJX-06FJX-84	H/A	27	1	617507	04-451TC-04FJX-04FJX-44	H/A
13	2	616361	06-451TC-06FJX-06FJX-86	H/A	28	1	617508	04-451TC-06FJX-06FJX45-65	H/A
14	2	616365	06-451TC-08FJX-06FJX90-30	H/A	29	1	617509	04-451TC-04FJX-06FJX90-30	H/A
15	2	616366	08-451TC-08FJX-08FJX90-18	H/A	30	1	617510	04-451TC-06FJX-06FJX45-54	H/A



120' ALUM BOOM HYDRAULIC DIAGRAM STS 2014
REFERENCE DRAWING NO. 499180

DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION
1	2	606347	PRESSURE TRANSDUCER,7500PSI	29	2	618689	9/16MJ-90-9/16MOR .042 CHK VLV
2	1	606527	FOLD MANIFOLD, 120'A STS'14	30	1	607114	MOBILE HALF COUPLER ASSY, 0502
3	1	606456	NORAC HYD VALVE (44960D)	31	4	618249	3/4MJIC-90-9/16MOR LBO
4	2	621626	HYD CYL,1.50-16.00-1.00	32	1	617167	06-451TC-08FJX-06FJX90-106 H/A
5	2	621640	HYD CYL,3.25 X 16.00 X 1.63	33	1	617168	06-451TC-08FJX-06FJX90-141 H/A
5	2	621640	HYD CYL,3.25 X 16.00 X 1.63	34	1	617166	06-451TC-08FJX-06FJX90-171 H/A
6	2	621642	HYD CYL,3.00 X 9.00 X 1.38	35	1	167090	LH HYD CYL,OUTER FOLD 120'A'12
6	2	621642	HYD CYL,3.00 X 9.00 X 1.38	36	1	617008	06-451TC-06FJX-08FJX-32 H/A
7	1	167091	RH HYD CYL,OUTER FOLD 120'A'12	37	2	616517	04-451TC-06FJX-06FJX-272 H/A
8	1	618574	7/8MJIC-3/4MOR ADPTR	38	2	616119	04-451TC-06FJX-06FJX-175 H/A
9	1	621656	HYD CYL, 3.50 X 19.75 X 1.750	39	1	616349	06-451TC-06FJX-06FJX-47 H/A
9	1	621656	HYD CYL, 3.50 X 19.75 X 1.750	40	1	616585	06-451TC-06FJX-06FJX90-62 H/A
10	2	470114	BREATHER FILTER VENT, 1/4 NPT	41	1	616351	06-451TC-06FJX-06FJX-60 H/A
11	4	470444	ACCUMULATOR, 30CI 1508 PSI	42	1	616646	06-451TC-06FJX-06FJX45-106 H/A
12	1	618333	7/8FJIC SW RUN TEE-7/8MJIC	43	1	617165	06-451TC-06FJX-08FJX-133 H/A
13	11	618119	9/16MJIC-90-9/16MOR LBO	44	1	616580	06-451TC-06FJX-06FJX90-34 H/A
14	6	618126	9/16MJIC-9/16MOR ADPTR	45	1	617006	06-451TC-06FJX-06FJX90-25 H/A
15	1	618440	9/16MJIC-90-9/16MOR EX LG LBO	46	1	616875	06-451TC-06FJX-06FJX90-171 H/A
16	2	618444	9/16MOR RUN TEE-9/16MJIC	47	1	616593	06-451TC-06FJX-06FJX90-38 H/A
17	5	618754	9/16MOR PLUG, HEX SOCKET	48	2	696131	BALL VALVE, 9/16FOR, 7250PSI
18	2	618618	9/16MJIC-90-9/16FJIC SWIV LBO	49	1	616974	06-451TC-06FJX-06FJX-133 H/A
19	1	618494	3/4MOR RUN TEE-3/4MJIC	50	2	618735	9/16JIC .062 ORIFICE ADPTR
20	2	618884	9/16MJIC-9/16MOR.042MFMO ADPTR	51	2	616866	04-451TC-06FJX-06FJX90-178 H/A
21	1	618753	7/16MOR PLUG, HEX SOCKET	52	1	617161	08-451TC-08FJX-10FJX-152 H/A
22	4	618425	9/16MJIC-45-9/16MOR LBO	53	2	616665	04-451TC-06FJX-06FJX-249 H/A
23	2	618123	9/16MOR-1/4FNPT ADPTR	54	1	616563	06-451TC-06FJX-06FJX-141 H/A
24	4	618739	9/16MJ-90-9/16MOR .065 CHK VLV	55	2	618668	9/16FJIC SWIV-9/16MOR ADPTR
25	2	618820	3/4MOR UNION	56	1	617163	08-451TC-06FJX-10FJX45-29 H/A
26	2	618669	3/4FJIC SWIV-3/4MOR ADPTR	57	1	617162	10-451TC-10FJX-12FJX-152 H/A
27	2	618443	3/4MJIC-90-3/4MOR EX LG LBO	58	4	619010	9/16MJIC UNION
28	2	618885	9/16MJIC-9/16MOR.055MOMF ADPTR				



132' ALUM BOOM HYDRAULIC DIAGRAM STS 2014
REFERENCE DRAWING NO. 499184

DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION
1	2	606347	PRESSURE TRANSDUCER, 7500PSI	30	1	607114	MOBILE HALF COUPLER ASSY, 0502
2	1	606527	FOLD MANIFOLD, 120'A STS'14	31	4	618249	3/4MJIC-90-9/16MOR LBO
3	1	606456	NORAC HYD VALVE (44960D)	32	1	617167	06-451TC-08FJX-06FJX90-106 H/A
4	2	621626	HYD CYL, 1.50-16.00-1.00	33	1	617168	06-451TC-08FJX-06FJX90-141 H/A
5	2	621640	HYD CYL, 3.25 X 16.00 X 1.63	34	1	617166	06-451TC-08FJX-06FJX90-171 H/A
6	2	621642	HYD CYL, 3.00 X 9.00 X 1.38	35	1	167090	LH HYD CYL, OUTER FOLD 120'A'12
7	1	167091	RH HYD CYL, OUTER FOLD 120'A'12	36	1	617008	06-451TC-06FJX-08FJX-32 H/A
8	1	618574	7/8MJIC-3/4MOR ADPTR	37	2	617045	04-451TC-06FJX-06FJX-315 H/A
9	1	621656	HYD CYL, 3.50 X 19.75 X 1.750	38	2	616119	04-451TC-06FJX-06FJX-175 H/A
10	2	470114	BREATHER FILTER VENT, 1/4 NPT	39	1	616349	06-451TC-06FJX-06FJX-47 H/A
11	4	470444	ACCUMULATOR, 30CI 1508 PSI	40	1	616585	06-451TC-06FJX-06FJX90-62 H/A
12	1	618333	7/8FJIC SW RUN TEE-7/8MJIC	41	1	616351	06-451TC-06FJX-06FJX-60 H/A
13	11	618119	9/16MJIC-90-9/16MOR LBO	42	1	616646	06-451TC-06FJX-06FJX45-106 H/A
14	6	618126	9/16MJIC-9/16MOR ADPTR	43	1	617165	06-451TC-06FJX-08FJX-133 H/A
15	1	618440	9/16MJIC-90-9/16MOR EX LG LBO	44	1	616580	06-451TC-06FJX-06FJX90-34 H/A
16	2	618444	9/16MOR RUN TEE-9/16MJIC	45	1	617006	06-451TC-06FJX-06FJX90-25 H/A
17	5	618754	9/16MOR PLUG, HEX SOCKET	46	1	616875	06-451TC-06FJX-06FJX90-171 H/A
18	2	618618	9/16MJIC-90-9/16FJIC SWIV LBO	47	1	616593	06-451TC-06FJX-06FJX90-38 H/A
19	1	618494	3/4MOR RUN TEE-3/4MJIC	48	2	696131	BALL VALVE, 9/16FOR, 7250PSI
20	2	618884	9/16MJIC-9/16MOR.042MFMO ADPTR	49	1	616974	06-451TC-06FJX-06FJX-133 H/A
21	1	618753	7/16MOR PLUG, HEX SOCKET	50	2	618735	9/16JIC .062 ORIFICE ADPTR
22	4	618425	9/16MJIC-45-9/16MOR LBO	51	2	616866	04-451TC-06FJX-06FJX90-178 H/A
23	2	618123	9/16MOR-1/4FNPT ADPTR	52	1	617161	08-451TC-08FJX-10FJX-152 H/A
24	4	618739	9/16MJ-90-9/16MOR .065 CHK VLV	53	2	617044	04-451TC-06FJX-06FJX-295 H/A
25	2	618820	3/4MOR UNION	54	1	616563	06-451TC-06FJX-06FJX-141 H/A
26	2	618669	3/4FJIC SWIV-3/4MOR ADPTR	55	2	618668	9/16FJIC SWIV-9/16MOR ADPTR
27	2	618443	3/4MJIC-90-3/4MOR EX LG LBO	56	1	617163	08-451TC-06FJX-10FJX45-29 H/A
28	2	618885	9/16MJIC-9/16MOR.055MOMF ADPTR	57	1	617162	10-451TC-10FJX-12FJX-152 H/A
29	2	618689	9/16MJ-90-9/16MOR .042 CHK VLV	58	4	619010	9/16MJIC UNION

Notes: