

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:

11-17 493750 (PC13431)
01-18, 06-18

90' Boom 18001-18500
100' Boom 18001-18500
120' Boom 18001-18500
132' Boom 18001-18500

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.

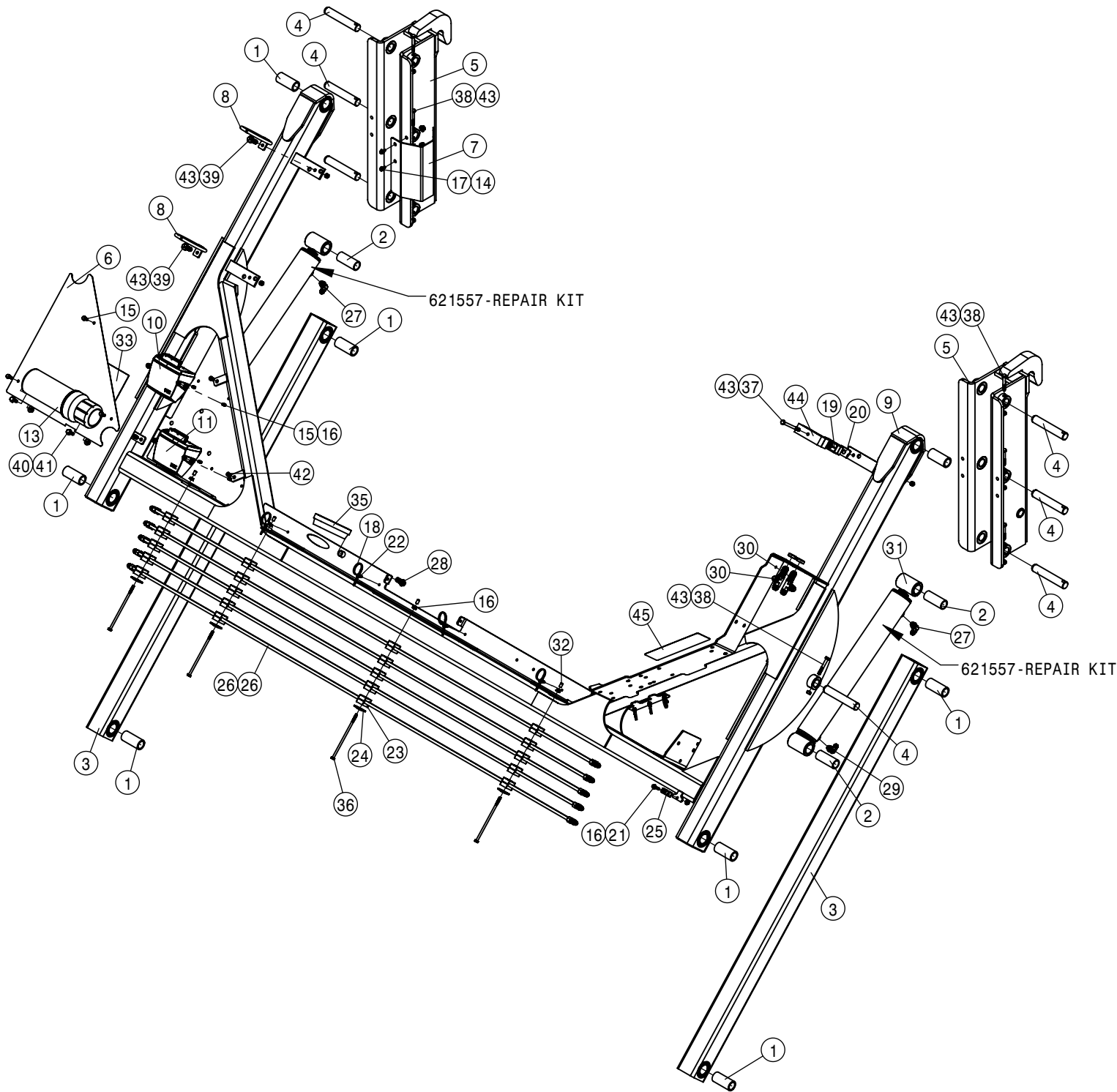
NOTE: Reference to left hand and right hand used throughout this manual refers to the position when seated in the operator's seat facing forward.

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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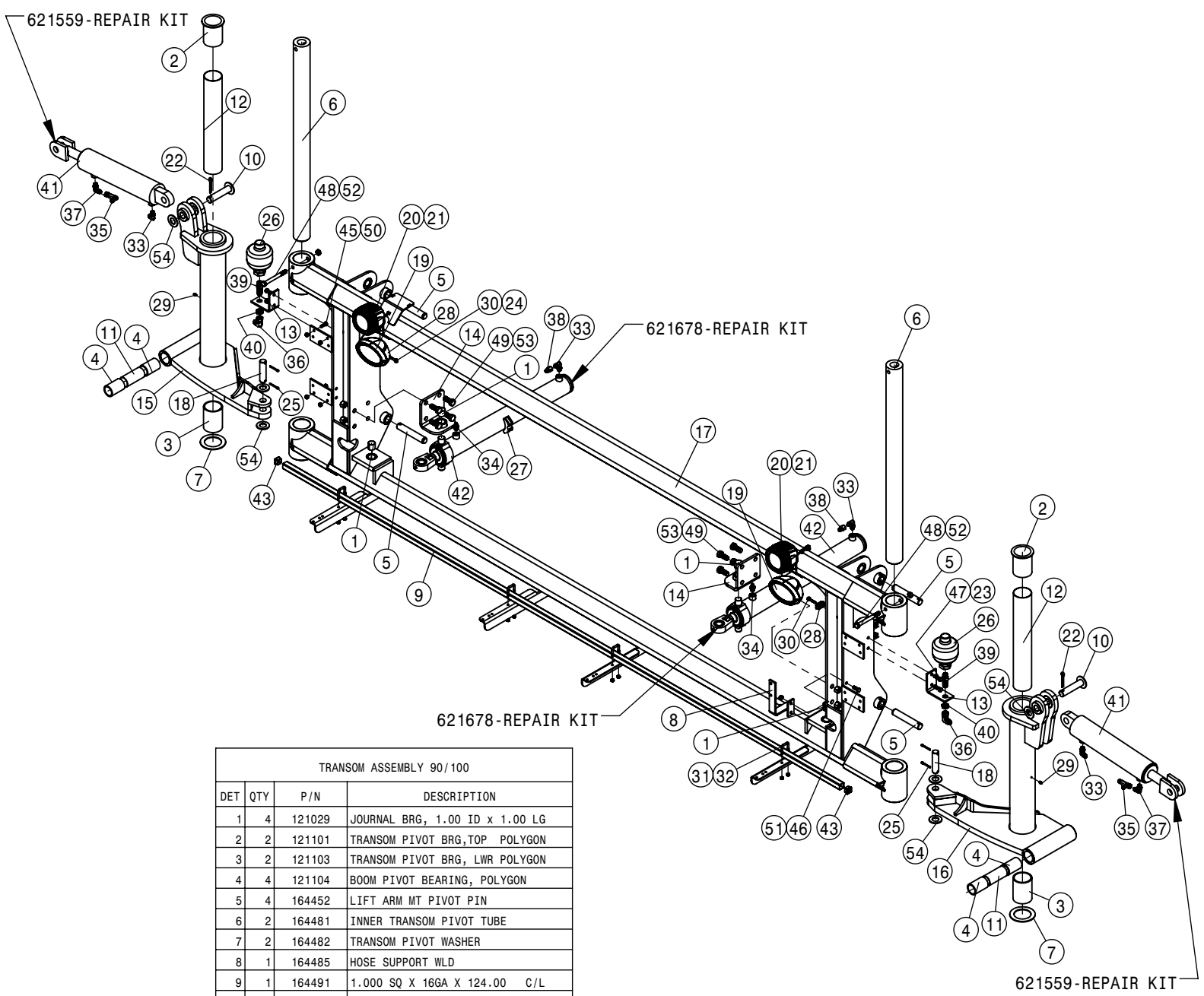
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LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	8	121107	LIFTARM BEARING, POLYGON
2	4	121109	LIFT CYL BRG, 3.13 POLYGON
3	2	164450	LWR LIFTARM WLD
4	8	164452	LIFT ARM MT PIVOT PIN
5	2	164800	QUICK ATTACH PLT WLD STS 04
6	1	165006	UPPER LIFTARM BUSS COVER, STS05
7	1	165742	RECEPTACLE MT, STS BOOMS '12
8	2	165954	HOSE RING WLD
9	1	165998	UPPER LIFTARM W/DECAL STS'14
10	1	292086	IQAN-XA2 MODULE->611
11	1	292087	IQAN-XS2 MODULE->611
NS	1	294350	HARNESS, 90/100' MAIN BOOM
13	1	344017	MANUAL CANISTER W/NEOPREN SEAL
14	2	470087	3/8UNC HEX SERR FLANGE NUT
15	7	470118	1/4 UNC X 3/4 SER FLG BOLT

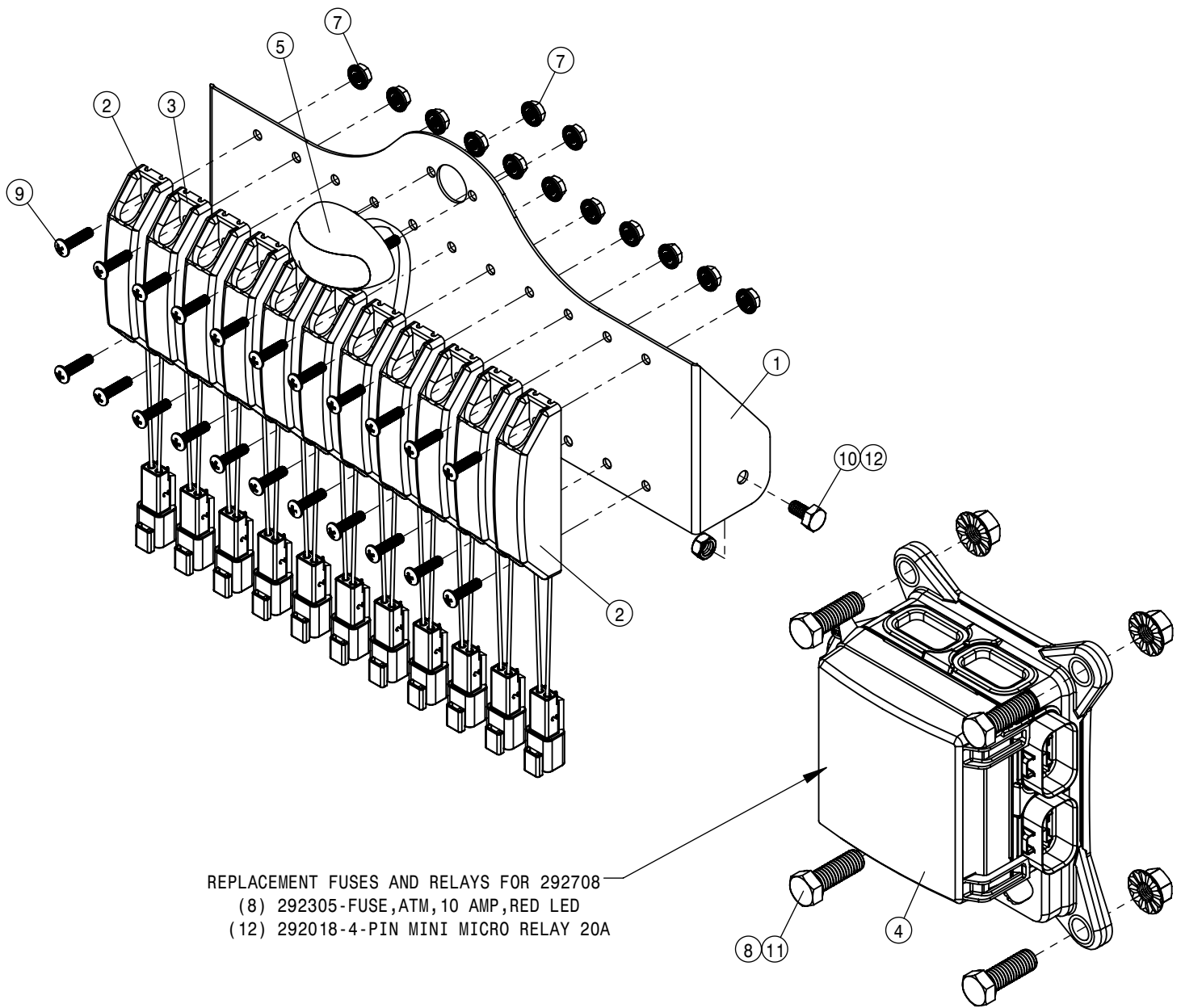
LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
16	9	470121	1/4-20UNC HEX FLG NUT SER MC GR5
17	2	470122	1/4UNC X 1/2 HHSFB GR5 MC
18	7	470154	CABLE TIE, 11.00" BLK NYLON
19	1	470274	TUBE CLAMP BODY, .750-.750
20	1	470281	STACK BOLT SAFETY LOCK PLATE
21	1	470407	1/4UNC X 1 1/4 HHSFB GR5 MC
22	7	470432	PUSH MT BASE FOR PLASTIC TIE
23	20	470473	TUBE CLAMP, HVY DTY .375-.375
24	4	470474	COVER PLATE FOR 470473 CLAMP
25	1	470888	TWIN #4 CLAMP
26	10	615852	UPPER LIFT ARM TUBE, STS LS
27	2	618119	9/16MJIC-90-9/16MOR LBO
28	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
29	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
30	2	618749	3/4MJIC BLKHD RUN TEE

LIFTARM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
31	2	621556	2.50 X 18.00 X 1.50 LIFT CYL
32	4	629770	CAPPLUGS CAP, .234 X .500 VINYL
33	1	650393	DECAL, BM MODULE STS10/12, 90' '12
NS	1	650428	DECAL SHEET, 90' BOOM
35	1	690359	PRESSURE GA GLYCERI 100 PSI
36	4	900032	1/4UNC X 6 1/2" HEX BOLT
37	1	900076	5/16UNC X 4" HEX BOLT
38	8	900086	5/16UNC X 2 1/4 HEX BOLT
39	2	900522	1/2UNF X 1 1/4 HHCS GR5 MC
40	2	910042	3/8-16UNC HEX FLG NUT SM MC GR8
41	2	910126	5/16UNC X 1 HHSFB SS
42	3	910127	1/4-20 NUTSERT .027-1.65 STL
43	11	914002	5/16UNC HEX STOVER NUT
44	1	A51729	TUBE CLAMP (PAIR)
45	1	HXE28534	LABEL, HYDRAULIC ENGLISH



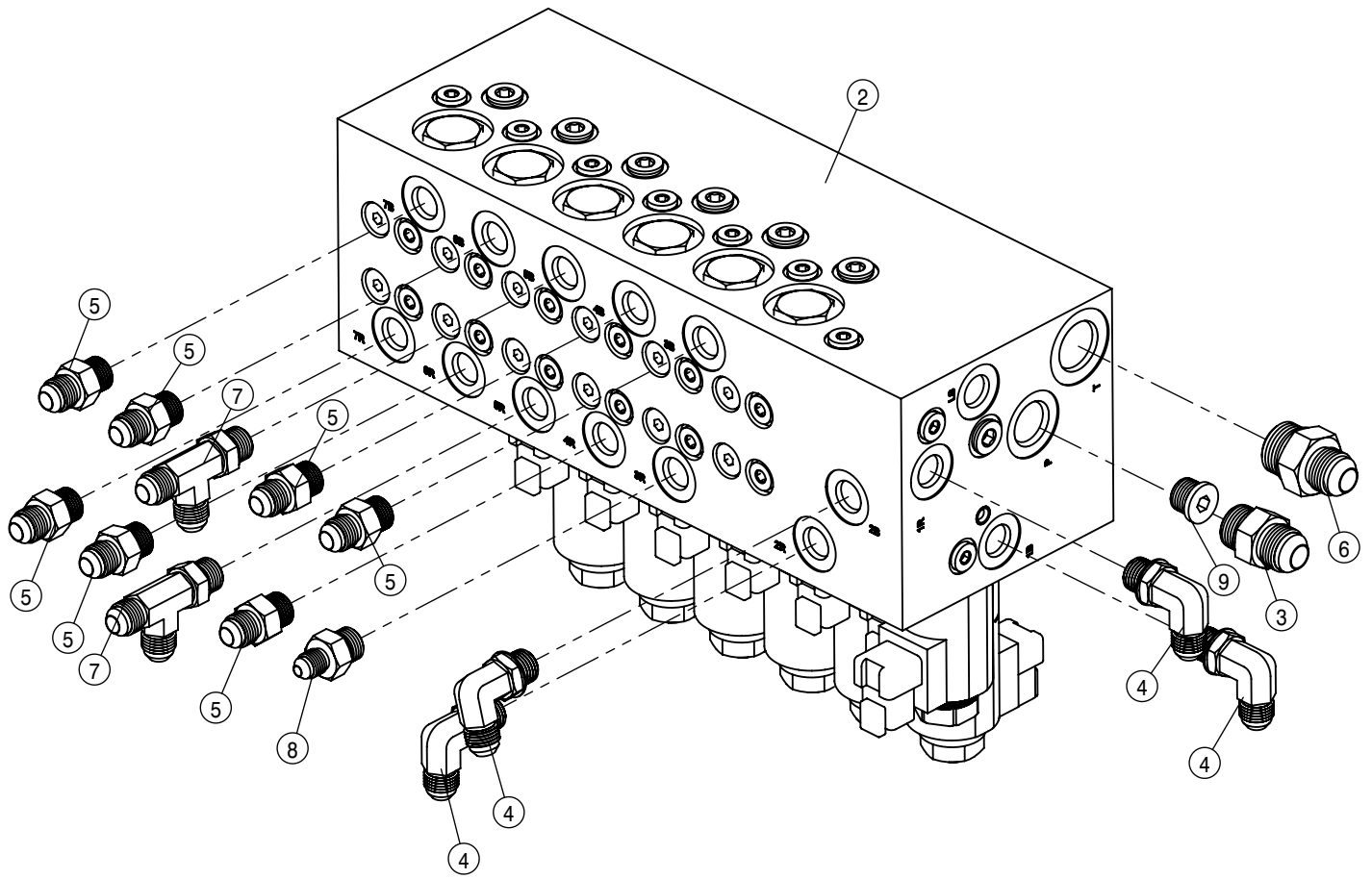
TRANSOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121029	JOURNAL BRG, 1.00 ID x 1.00 LG
2	2	121101	TRANSOM PIVOT BRG,TOP POLYGON
3	2	121103	TRANSOM PIVOT BRG, LWR POLYGON
4	4	121104	BOOM PIVOT BEARING, POLYGON
5	4	164452	LIFT ARM MT PIVOT PIN
6	2	164481	INNER TRANSOM PIVOT TUBE
7	2	164482	TRANSOM 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	2	470121	1/4-20UNC HEX FLG NUT SER MC GR5
25	4	470162	COTTER PIN 3/16 X 1 1/2 ZN
26	2	470701	ACCUMULATOR, 30CI 1,812 PSI
27	2	470887	Cylinder Saddle Clamp
28	2	470888	TWIN #4 CLAMP
29	2	471005	GREASE ZERK, 1/4-28 X 1/2
30	2	473837	1/4UNC X 1 1/2 HHSFB SS
31	8	473842	1/4UNC LOCK NUT,CNTR POINT
32	4	473979	1/4UNC-1 1/8ID-1 1/2U-BOLTSQSS
33	4	618119	9/16MJIC-90-9/16MOR LBO
34	2	618468	7/16MJIC-9/16MOR ADPTR
35	2	618486	9/16FJIC SW RUN TEE-9/16MJIC

TRANSOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
36	2	618609	3/4MJIC-90-3/4FJIC SWIV LBO
37	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
38	2	618733	9/16JIC .042 ORIFICE ADPTR
39	2	618743	3/4MOR-3/4MJIC BLKHD, .040 ORF
40	2	618744	3/4 THD BLKHD LOCK NUT
41	2	621558	3.00 X 11.00 X 1.38 LEVEL CYL.
42	2	621670	HYD CYL 2.50 X 21.00 X 1.375
43	2	629727	FINISH PLUG 1" SQ 16 GA
NS	1	650428	DECAL SHEET, 90' BOOM
45	4	900065	5/16UNC X 1" HEX BOLT
46	2	900129	3/8UNC X 1" HEX BOLT
47	4	900130	3/8UNC X 1 1/4 HEX BOLT
48	2	900284	1/2UNC X 4 3/4 HEX BOLT
49	8	900333	5/8UNC X 1 1/2 HEX BOLT
50	4	914002	5/16UNC HEX STOVER NUT
51	2	914004	3/8UNC HEX STOVER NUT
52	2	914008	1/2 UNC HEX STOVER NUT
53	8	914010	5/8UNC HEX STOVER NUT
54	6	920008	SAE FLAT WASHER 1 MC

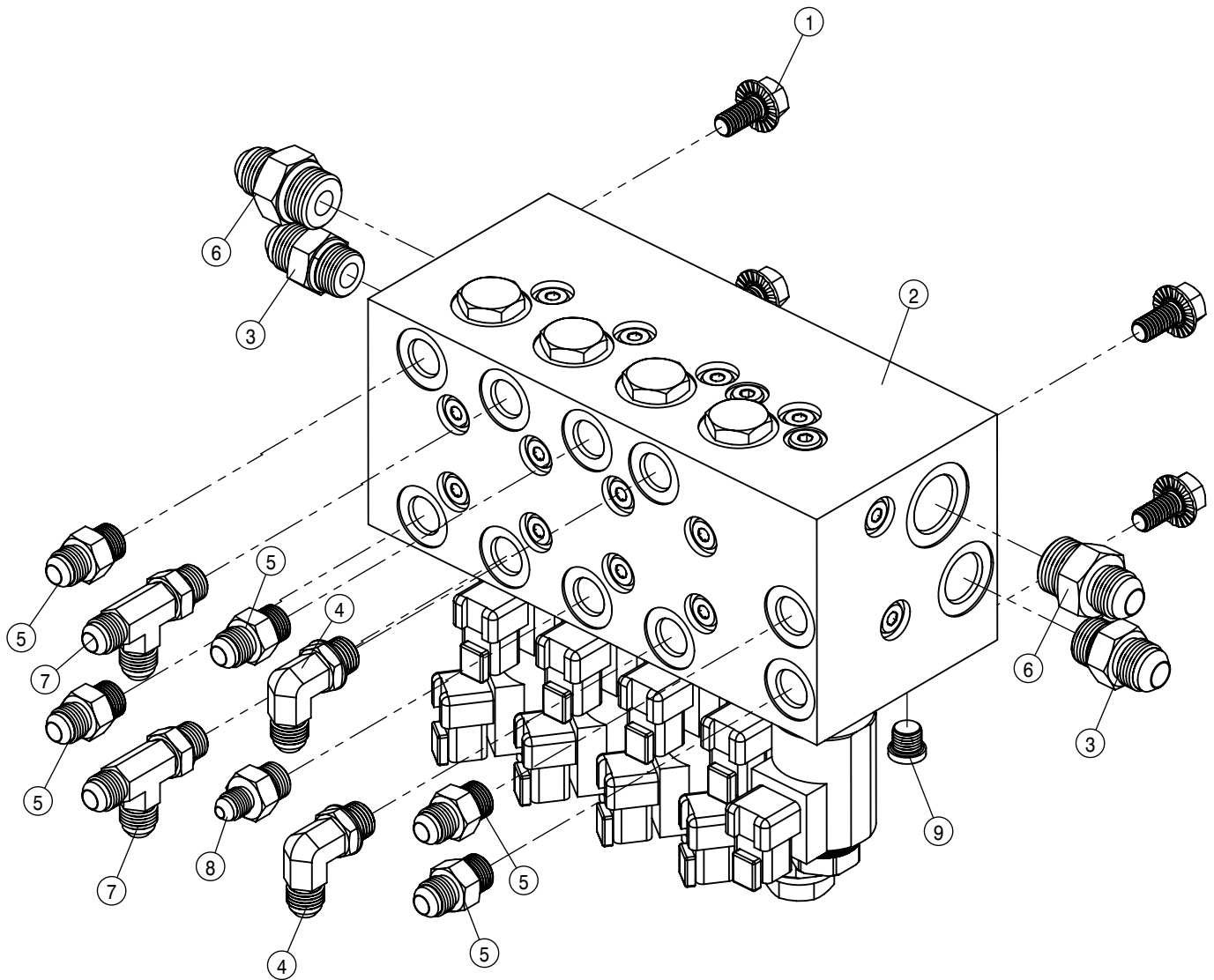


REPLACEMENT FUSES AND RELAYS FOR 292708
 (8) 292305-FUSE,ATM,10 AMP,RED LED
 (12) 292018-4-PIN MINI MICRO RELAY 20A

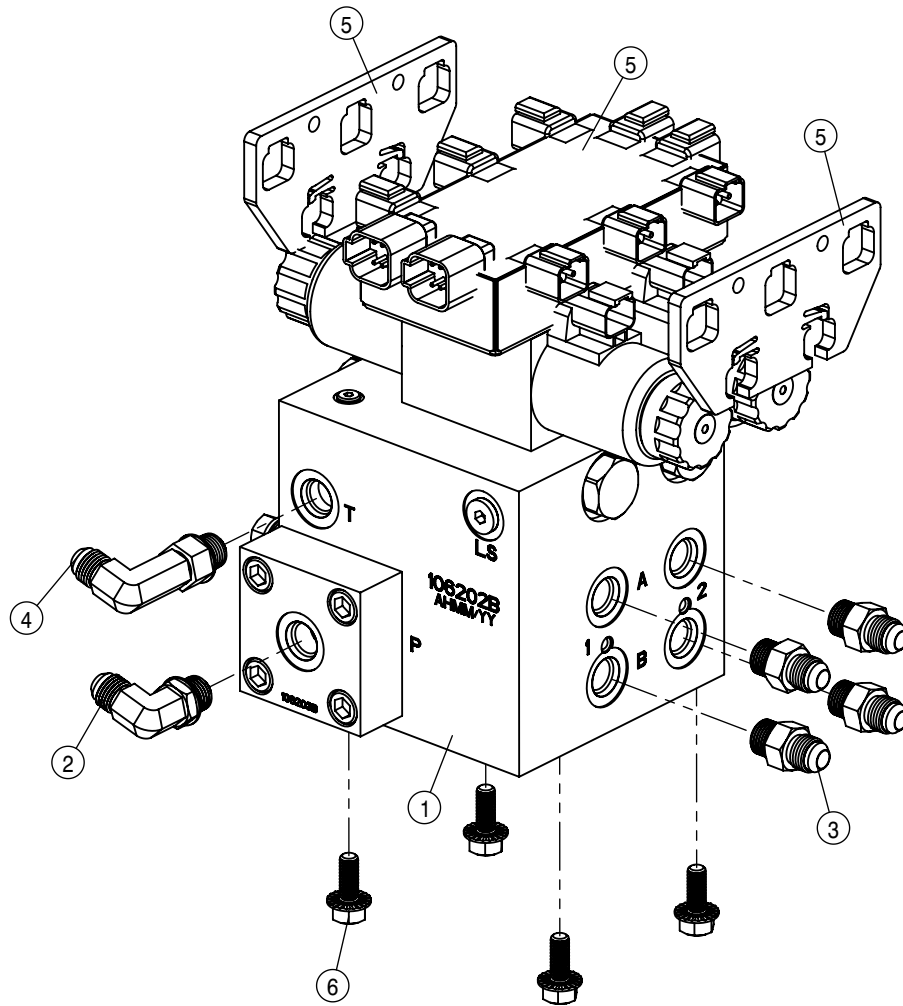
SECTION INDICATOR LIGHTS 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	165994	BOOM INDICATOR LGT MT
2	2	291325	AMBER LAMP,4" DT DEUTSCH
3	9	291326	RED LAMP,4" DT DEUTSCH
4	1	292708	MVEC
5	1	293817	MASTER SPRAY LIGHT, STS 05
NS	1	294284	SPRAY SECTION LIGHT HARNESS
7	24	470175	10-32 SERR FLANGE NUT
8	4	470325	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



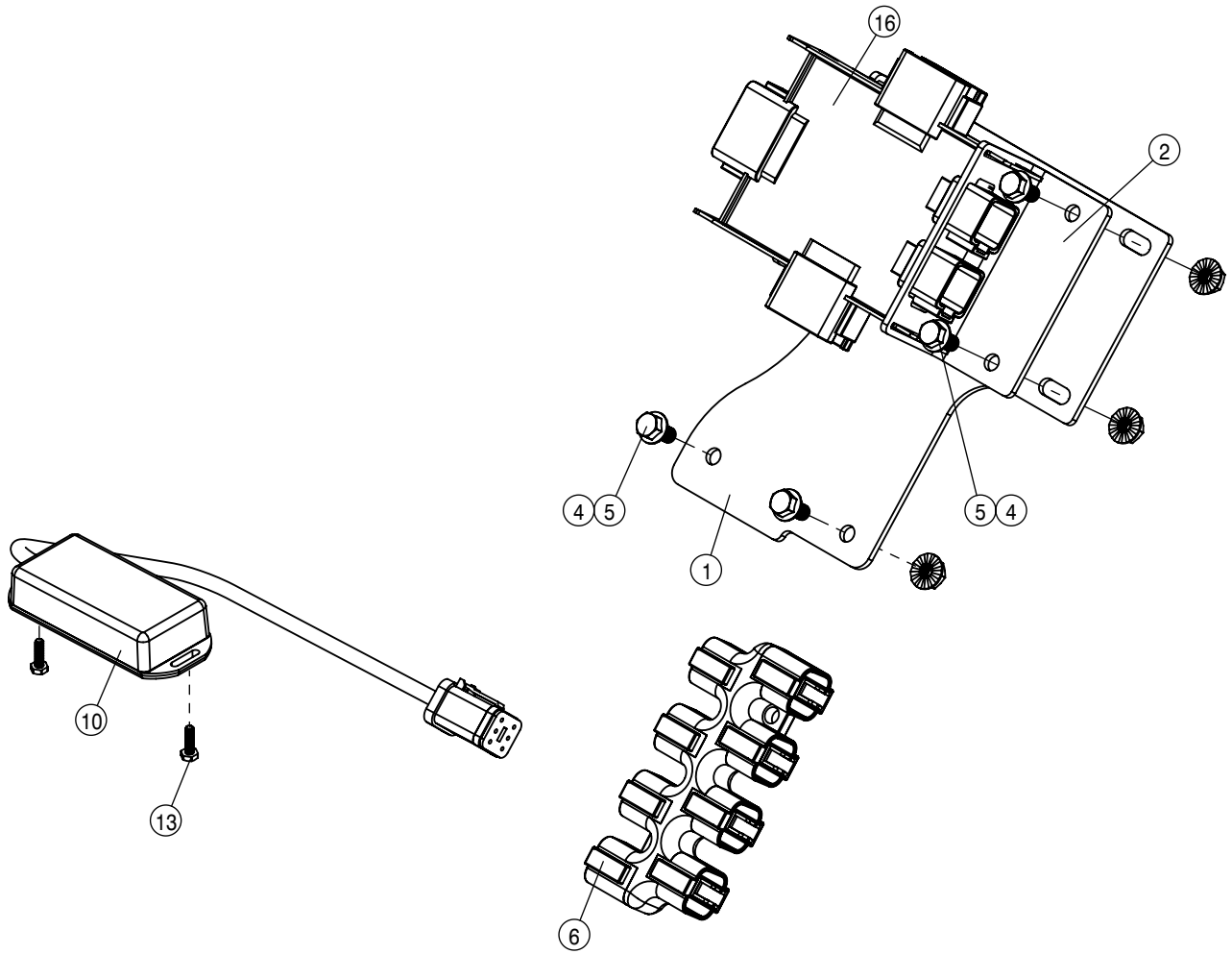
BOOM MANIFOLD ASSEMBLY-NON NORAC 90/100			
DET	QTY	P/N	DESCRIPTION
NS	1	294352	90/100 DIODE SUPPRESSION HARNES
2	1	606272	VALVE, LOAD SENSE BOOM SAUER
3	1	611125	3/4MJIC-3/4MOR ADPTR
4	4	618119	9/16MJIC-90-9/16MOR LBO
5	7	618126	9/16MJIC-9/16MOR ADPTR
6	1	618327	3/4MJIC-7/8MOR ADPTR
7	2	618444	9/16MOR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



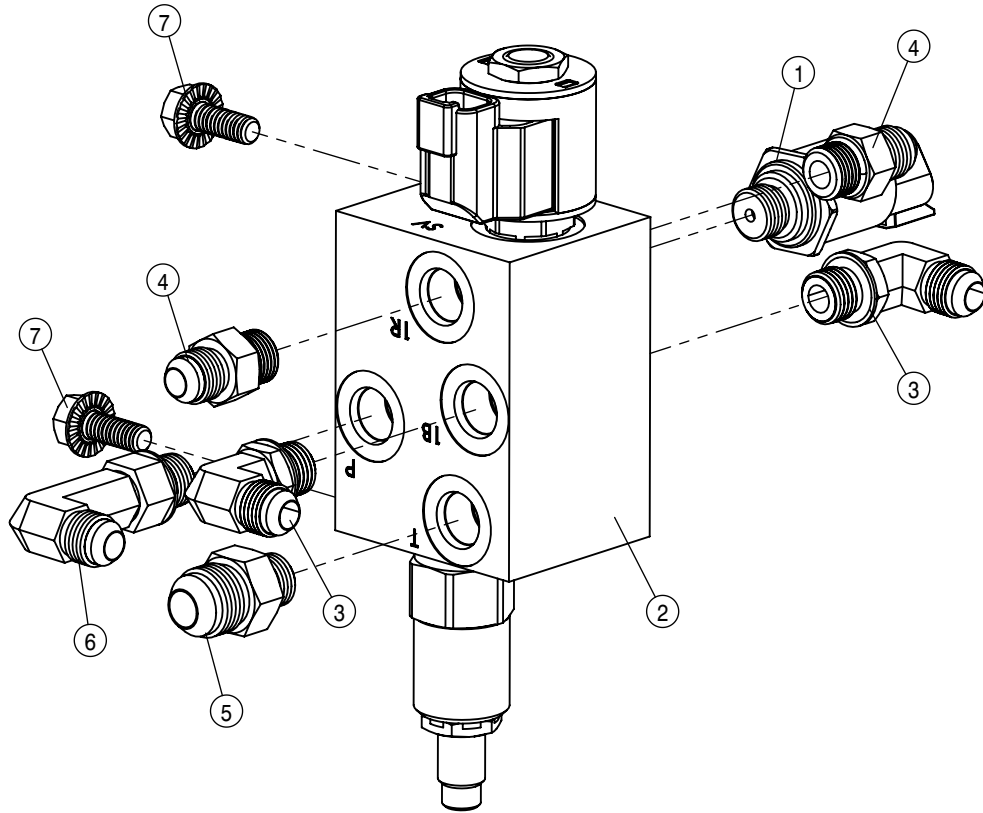
BOOM MANIFOLD ASSEMBLY-NORAC 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470409	3/8UNC X 3/4 HHSFB GR5 MC
2	1	606529	VALVE, LIFT-FOLD, 4-SECTION
3	2	611125	3/4MJIC-3/4MOR ADPTR
4	2	618119	9/16MJIC-90-9/16MOR LBO
5	5	618126	9/16MJIC-9/16MOR ADPTR
6	2	618327	3/4MJIC-7/8MOR ADPTR
7	2	618444	9/16MOR RUN TEE-9/16MJIC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



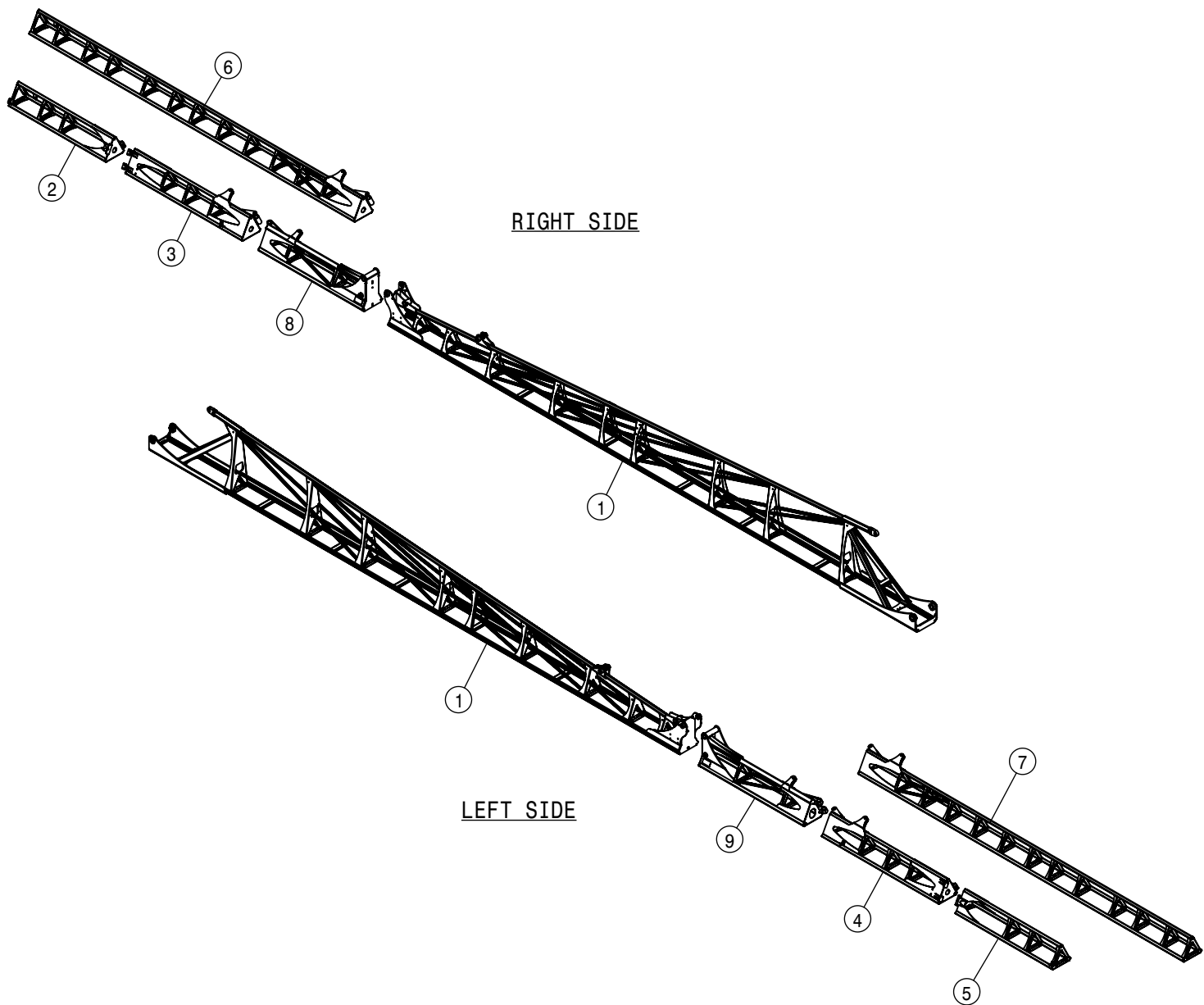
NORAC VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	606455	NORAC HYD VALVE (44963D)
2	1	618119	9/16MJIC-90-9/16MOR LBO
3	4	618126	9/16MJIC-9/16MOR ADPTR
4	1	618440	9/16MJIC-90-9/16MOR EX LG LBO
5	1	693133	NORAC MODULE, UC5 VALVE
6	4	900486	5/16UNC X 3/4 HHSFB SS



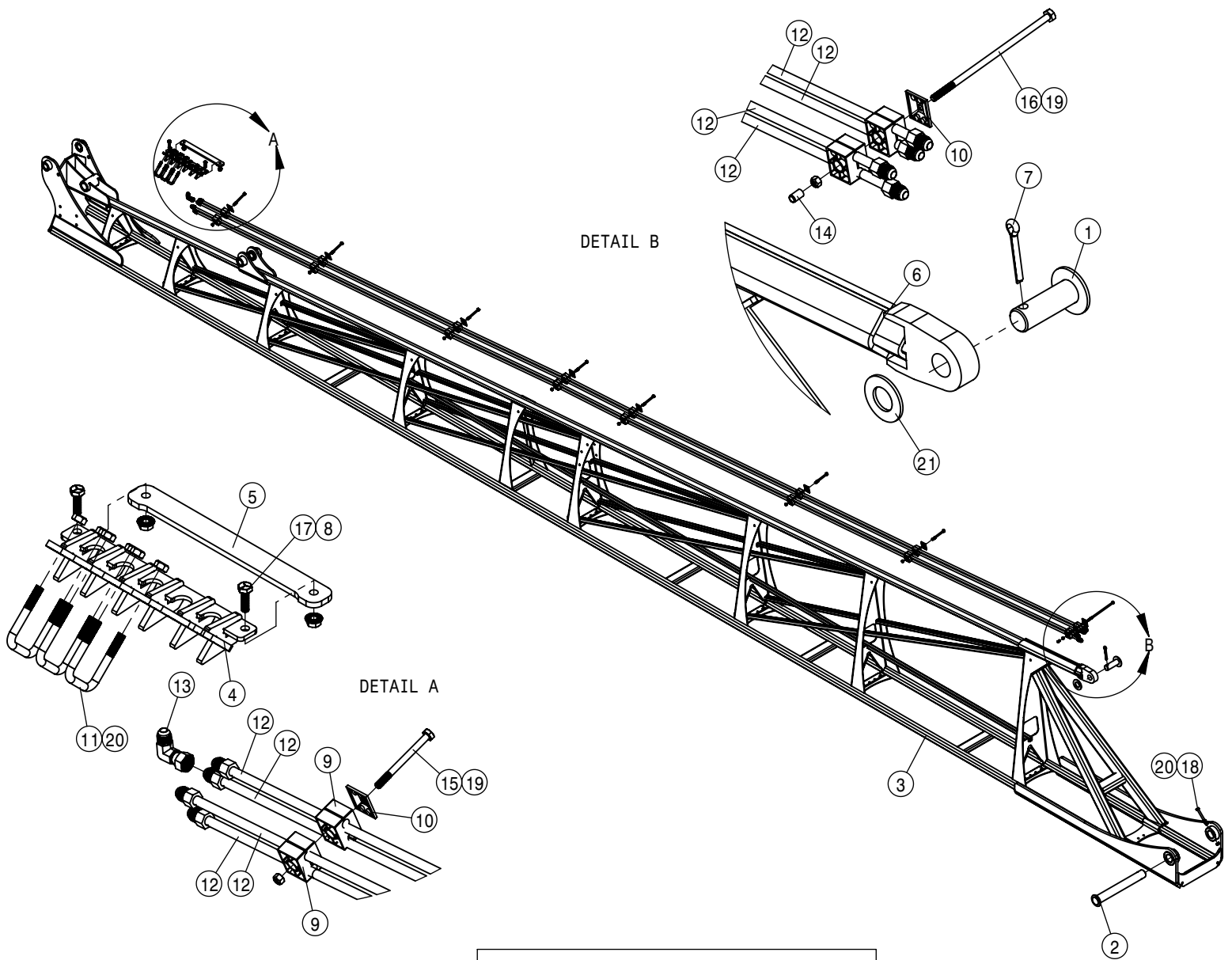
NORAC MODULE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
	1	167178	UC5 MTG BRKT
	1	167179	CLAMP UC5 BRKT
NS	1	294251	HARNESS-NORAC INPUT INTERFACE
	4	470121	1/4 UNC SERR FLG LOCK NUT
	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
	1	693131	NORAC UC5 NETWORK CPLR, 8-WAY
NS	1	693135	NORAC CABLE, STS BM DISCNT, 150"
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	1	693752	UC5 NETWORK 2 PIN PLUG
NS	5	693800	UC5 NETWORK 6PIN PLUG
NS	1	693802	CABLE, UC5 VALVE LOCK
NS	2	693806	CABLE,UC5 12 AWG 7M



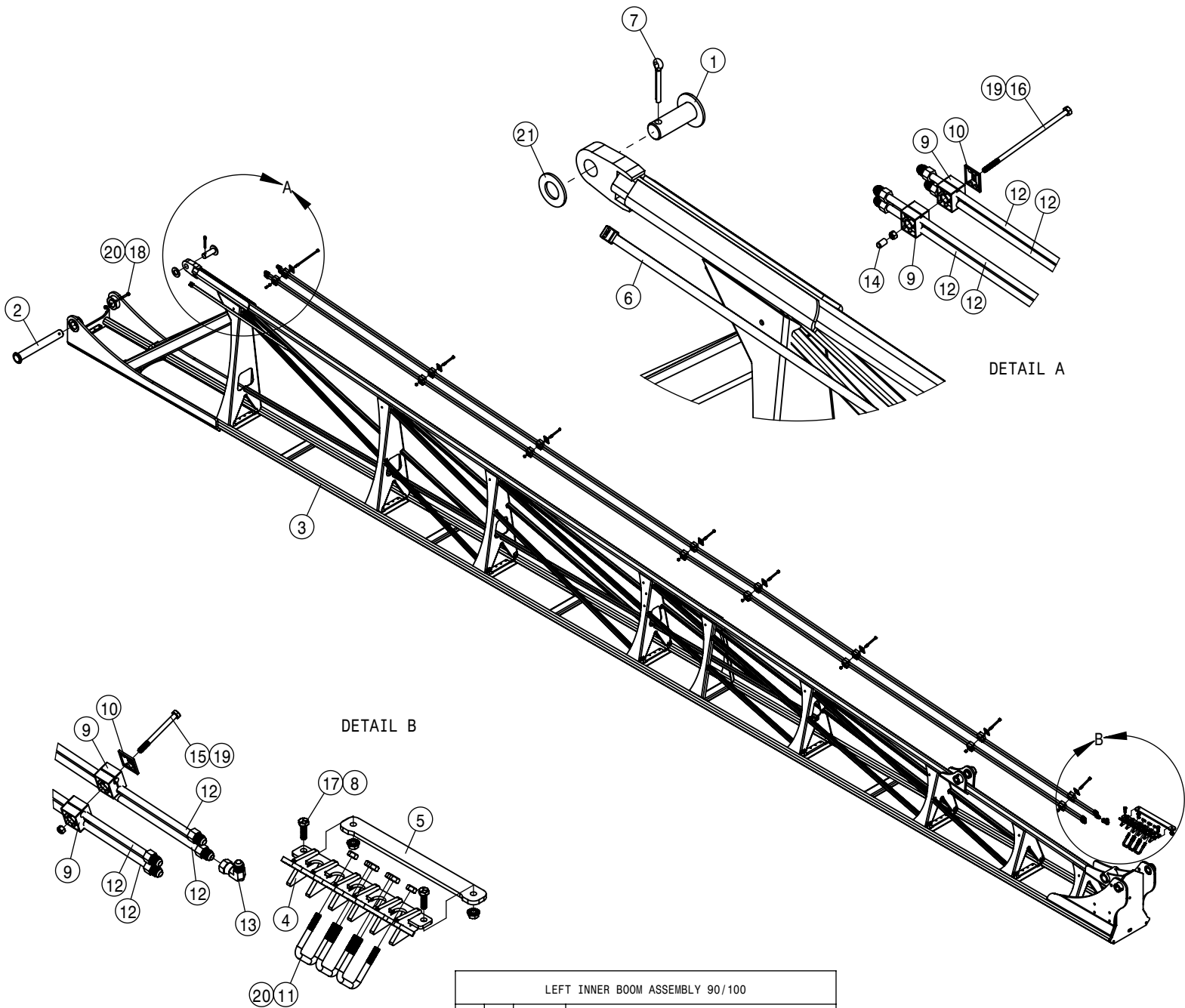
BREAKAWAY VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	606347	PRESSURE TRANSDUCER,7500PSI
2	1	607119	90/100 breakaway block
3	2	618119	9/16MJC-90-9/16MOR LBO
4	2	618126	9/16MJC-9/16MOR ADPTR
5	1	618360	3/4MJC-9/16MOR ADPTR
6	1	618440	9/16MJC-90-9/16MOR EX LG LBO
7	2	900486	5/16UNC X 3/4 HHSFB SS



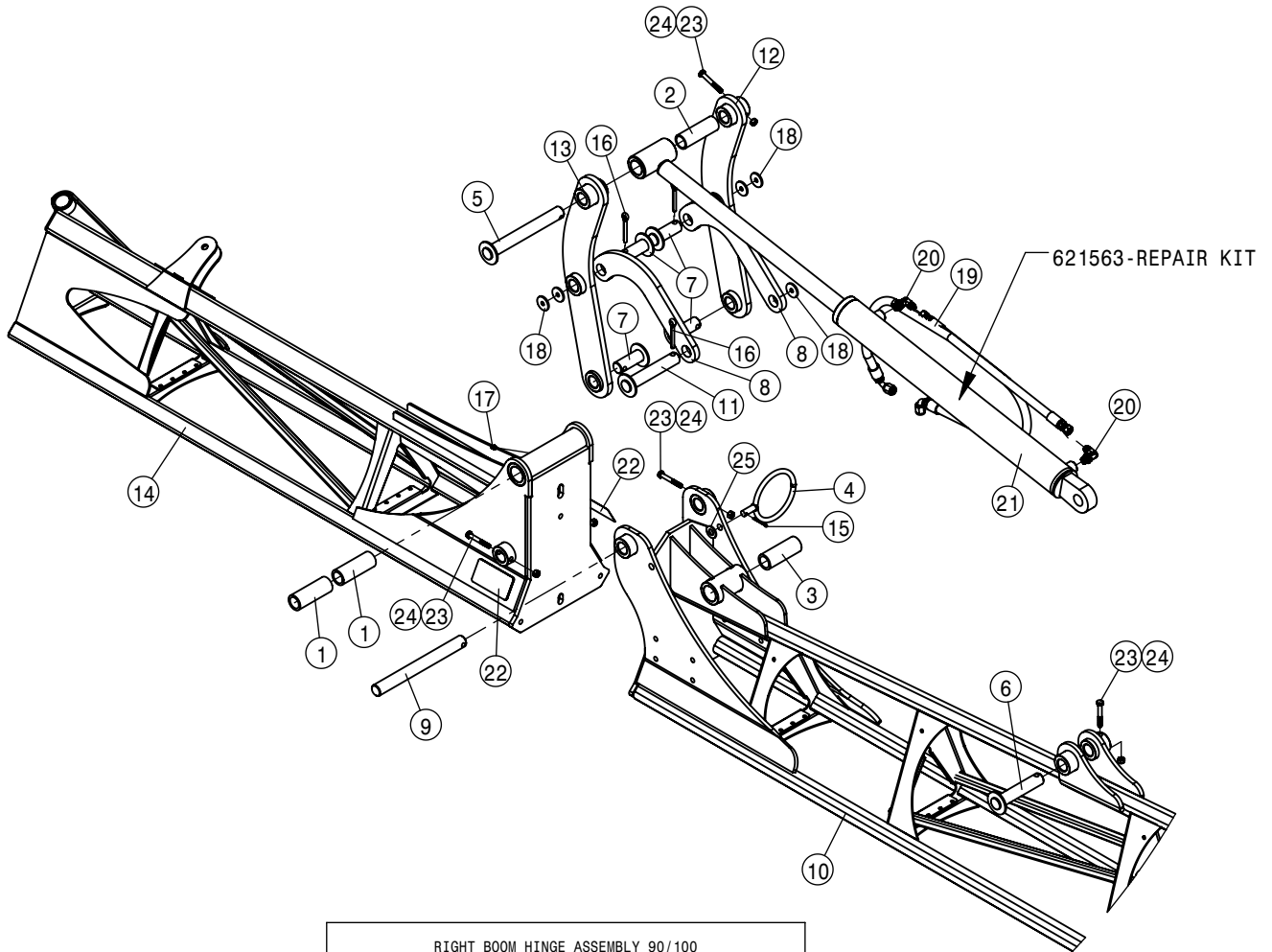
BOOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	164880	INNER BOOM WLD, SECT-1 STS 05
2	1	164970	RH 90' BOOM TIP WLD, SECT-4
3	1	164971	RH BREAKAWAY BOOM WLD, SECT-3
4	1	164973	LH BREAKAWAY BOOM WLD, SECT-3
5	1	164975	LH 90' BOOM TIP WLD, SECT-4
6	1	165815	RH BRKWAY BM WLD,100'SECT-3'10
7	1	165816	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	169303	CRADLE RAIL WLD, 90-100 BM
5	1	169305	BUMPER, CRADLE RAIL WLD
6	1	470000	.50 X 28" CABLE TIE - UV BLACK NYLON
7	1	470012	5/16 X 2 COTTER PIN
8	2	470113	5/16-18UNC HEX FLG NUT SER MC GR5
9	16	470473	TUBE CLAMP, HVY DTY .375-.375
10	8	470474	COVER PLATE FOR 470473 CLAMP
11	3	473986	5/16UNC-1 9/16ID-2 3/8 U-BOLT SS
12	4	615851	HYD TUBE, MAIN BOOM, STS LS
13	1	618618	9/16MJIC-90-9/16FJIC SWIV LBO
14	1	629770	CAPPLUGS CAP, .234 X .500 VINYL
15	7	900010	1/4UNC X 3" HEX BOLT
16	1	900032	1/4UNC X 6 1/2" HEX BOLT
17	2	900065	5/16UNC X 1 HHCS GR5 MC
18	1	900073	5/16UNC X 3 1/4 HEX BOLT
19	8	914000	1/4UNC HEX STOVER NUT
20	7	914002	5/16UNC HEX STOVER NUT
21	1	920008	SAE FLAT WASHER 1 MC

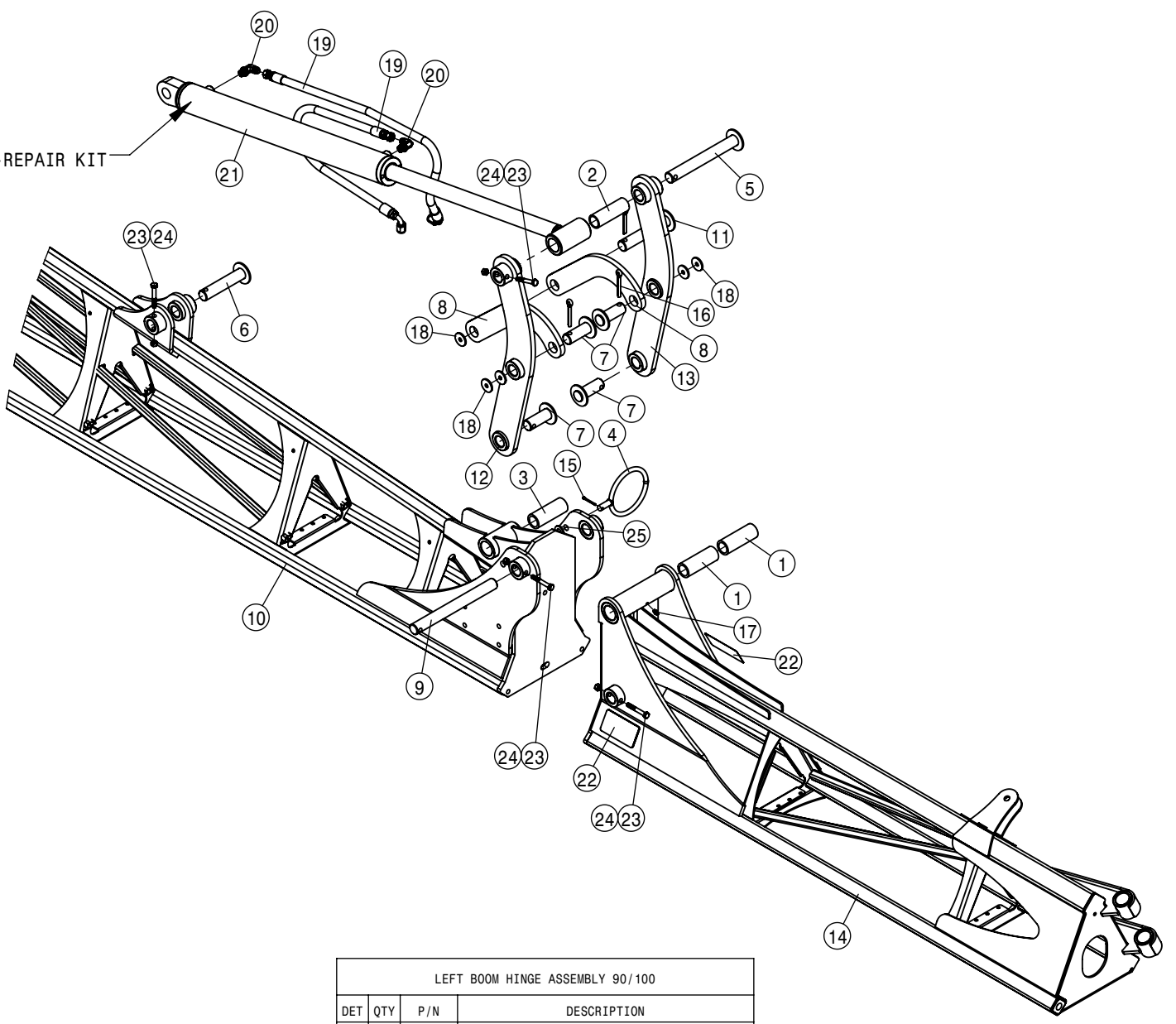


LEFT INNER BOOM ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	164500	LEVEL CYL PIN WLD, SHAFT END
2	1	164515	BOOM HINGE PIN WLD
3	1	164880	INNER BOOM WLD, SECT-1 STS 05
4	1	169303	CRADLE RAIL WLD, 90-100 BM
5	1	169305	BUMPER, CRADLE RAIL WLD
6	1	470000	.50 X 28" CABLE TIE - UV BLACK NYLON
7	1	470012	5/16 X 2 COTTER PIN
8	2	470113	5/16-18UNC HEX FLG NUT SER MC GR5
9	16	470473	TUBE CLAMP, HVY DTY .375-.375
10	8	470474	COVER PLATE FOR 470473 CLAMP
11	3	473986	5/16UNC-1 9/16ID-2 3/8 U-BOLT SS
12	4	615851	HYD TUBE, MAIN BOOM, STS LS
13	1	618618	9/16MJIC-90-9/16FJIC SWIV LBO
14	1	629770	CAPPLUGS CAP, .234 X .500 VINYL
15	7	900010	1/4UNC X 3" HEX BOLT
16	1	900032	1/4UNC X 6 1/2" HEX BOLT
17	2	900065	5/16UNC X 1 HHCS GR5 MC
18	1	900073	5/16UNC X 3 1/4 HEX BOLT
19	8	914000	1/4UNC HEX STOVER NUT
20	7	914002	5/16UNC HEX STOVER NUT
21	1	920008	SAE FLAT WASHER 1 MC

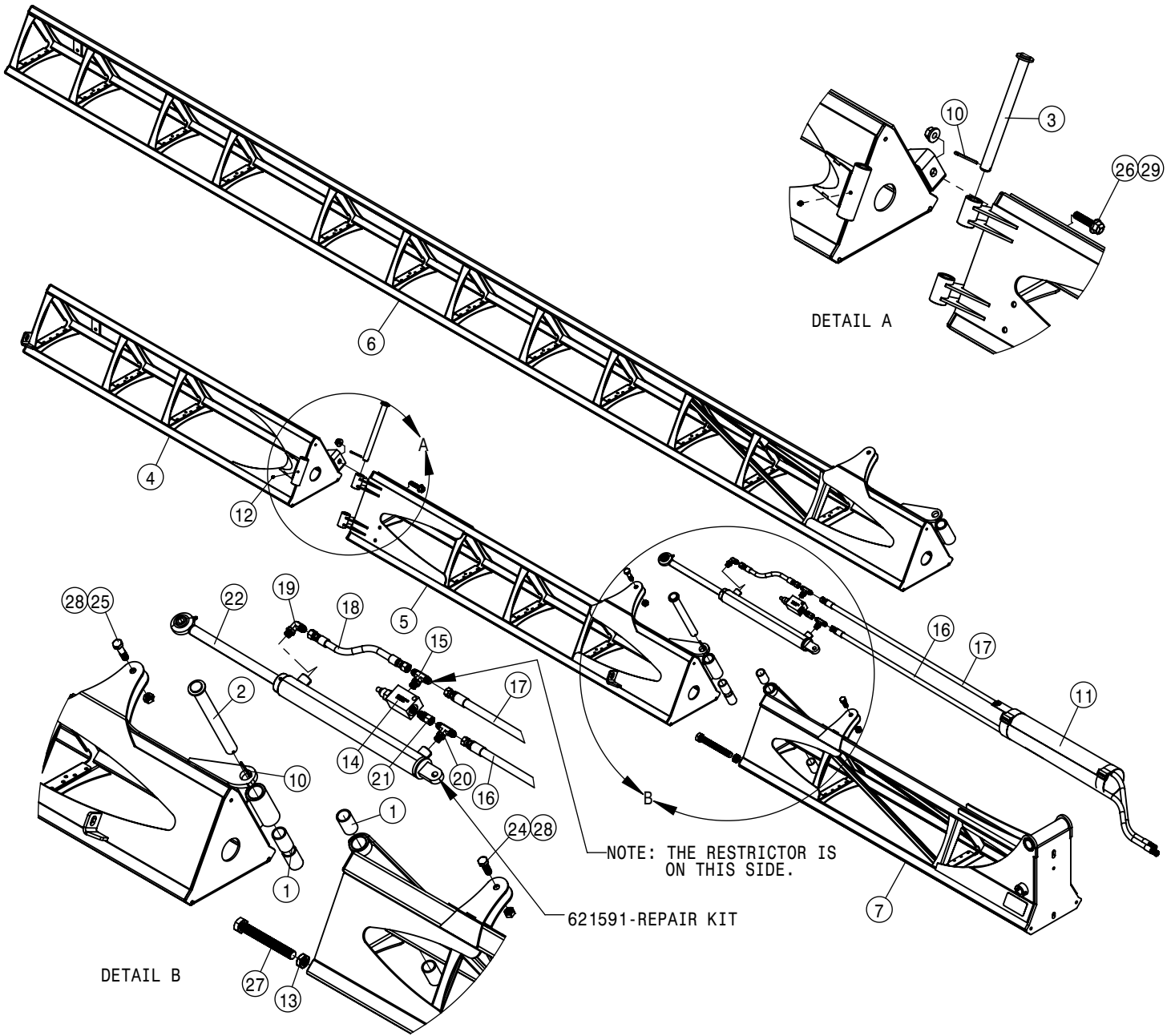


RIGHT BOOM HINGE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	2	121106	BOOM FOLD BRG, POLYGON
2	1	121108	OUTR BOOM FOLD CYL BRG,POLYGON
3	1	121121	BEARING, 1.006-1.368-3.6PLYGON
4	1	164517	HOSE SUPPORT RING WLD
5	1	164520	BOOM CYL PIVOT PIN WLD
6	1	164522	BOOM FOLD CYL PIN WLD
7	4	164524	BOOMERANG CNTR 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
22	2	650204	DECAL, WARNING, CRUSH HAZARD FP
23	5	900086	5/16UNC X 2 1/4 HEX BOLT
24	5	914002	5/16UNC HEX STOVER NUT
25	1	920004	1/2 SAE FLAT WASHER

621536-REPAIR KIT

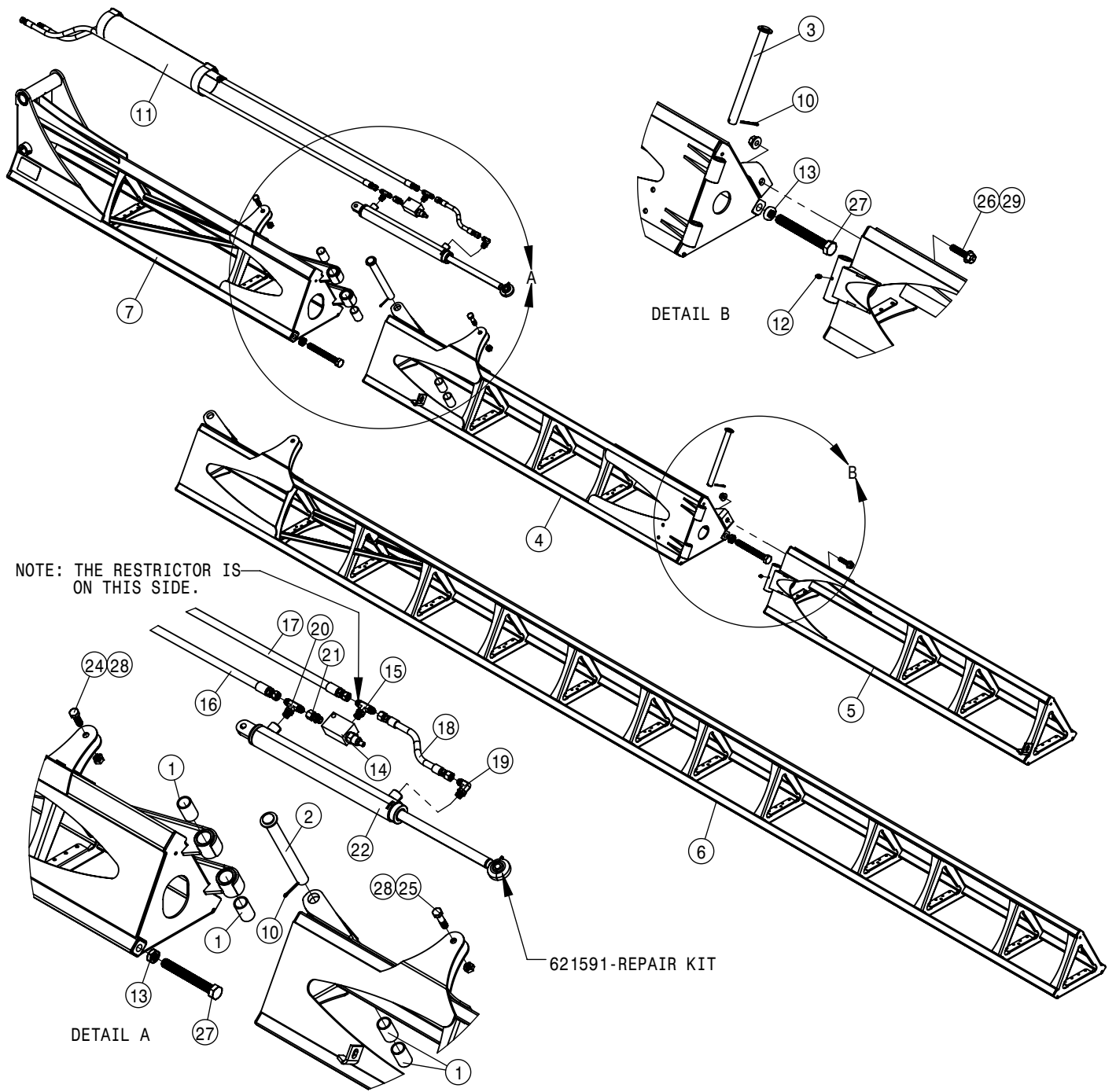


LEFT BOOM HINGE ASSEMBLY 90/100				
DET	QTY	P/N	DESCRIPTION	
1	2	121106	BOOM FOLD BRG, POLYGON	
2	1	121108	OUTR BOOM FOLD CYL BRG,POLYGON	
3	1	121121	BEARING, 1.006-1.368-3.6PLYGON	
4	1	164517	HOSE SUPPORT RING WLD	
5	1	164520	BOOM CYL PIVOT PIN WLD	
6	1	164522	BOOM FOLD CYL PIN WLD	
7	4	164524	BOOMERANG 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	
22	2	650204	DECAL, WARNING, CRUSH HAZARD FP	
23	5	900086	5/16UNC X 2 1/4 HEX BOLT	
24	5	914002	5/16UNC HEX STOVER NUT	
25	1	920004	1/2 SAE FLAT WASHER	



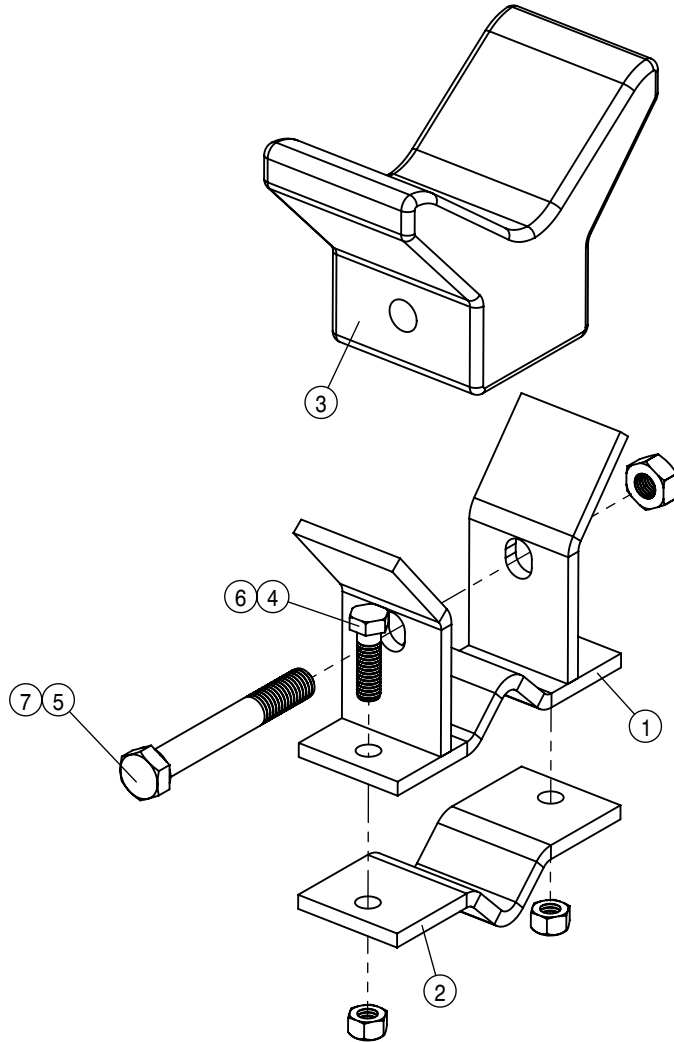
RIGHT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121110	BOOM FOLD BRG, POLYGON
2	1	164526	BOOM BREAKAWAY PIVOT PIN WLD
3	1	164637	BOOM TIP SECTION PIN WLD
4	1	164970	RH 90' BOOM TIP WLD, SECT-4
5	1	164971	RH BREAKAWAY BOOM WLD, SECT-3
6	1	165815	RH BRKWAY BM WLD, 100' SECT-3' 10
7	1	165999	RH FLDVR BM, SECT-2 W/DECAL
NS	1	293860	FENCE ROW EXT HARNESS 100' STS
NS	2	294351	HARNESS, 90/100' BOOM WING
10	2	470011	COTTER PIN 5/32 X 1 1/2
11	1	470378	SIDEWINDER SLEEVE, 14.06 X 21"
12	1	471005	GREASE ZERK, 1/4-28 X 1/2
13	2	472334	3/4UNC HEX JAM NUT
14	1	607540	KICK DOWN RELIEF VALVE, 800 PSI
15	1	614752	RESTRICTOR BR TEE ASSY, .042DIA

RIGHT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
16	1	616360	06-451TC-06FJX-06FJX-84 H/A
17	1	616361	06-451TC-06FJX-06FJX-86 H/A
18	1	617054	04-451TC-06FJX-06FJX-11
19	1	618119	9/16MJIC-90-9/16MOR LBO
20	1	618629	9/16MOR BRANCH TEE-9/16MJIC
21	1	618668	9/16FJIC SWIV-9/16MOR ADPTR
22	1	621590	120' TIP FOLD CYL, STS 120' BM 08
NS	1	650428	DECAL SHEET, 90' BOOM
24	1	900265	1/2UNC X 1 1/2 HEX BOLT
25	1	900267	1/2UNC X 2" HEX BOLT
26	1	900519	1/2UNC X 2 HHSFB GR5 MC FT
27	2	906350	3/4UNC X 6" HEX BOLT FULL
28	2	914008	1/2 UNC HEX STOVER NUT
29	1	914015	1/2-13UNC CTRLK FLG NUT MC GR5

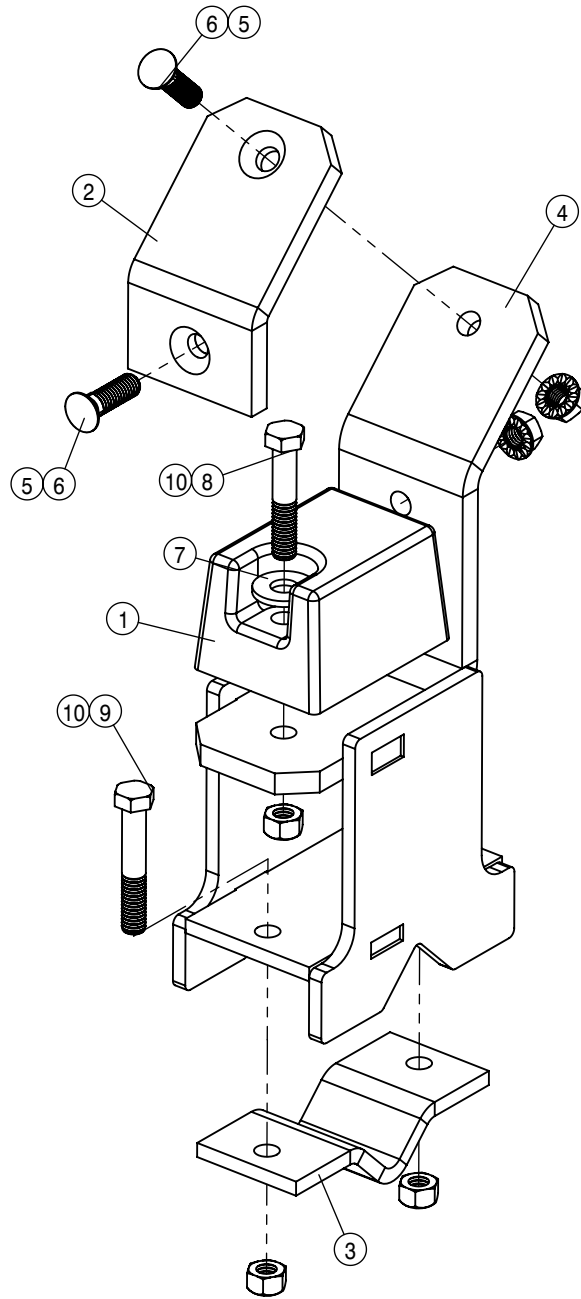


LEFT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	121110	BOOM FOLD BRG, POLYGON
2	1	164526	BOOM BREAKAWAY PIVOT PIN WLD
3	1	164637	BOOM TIP SECTION PIN WLD
4	1	164973	LH BREAKAWAY BOOM WLD, SECT-3
5	1	164975	LH 90' BOOM TIP WLD, SECT-4
6	1	165816	LH BRKWAY BM WLD, 100' SECT-3' 10
7	1	166000	LH FLDVR BM, SECT-2 W/DECAL
NS	1	293860	FENCE ROW EXT HARNESS 100' STS
NS	2	294351	HARNESS, 90/100' BOOM WING
10	2	470011	COTTER PIN 5/32 X 1 1/2
11	1	470378	SIDEWINDER SLEEVE, 14.06 X 21"
12	1	471005	GREASE ZERK, 1/4-28 X 1/2
13	2	472334	3/4UNC HEX JAM NUT
14	1	607540	KICK DOWN RELIEF VALVE, 800 PSI
15	1	614752	RESTRICTOR BR TEE ASSY, .042DIA

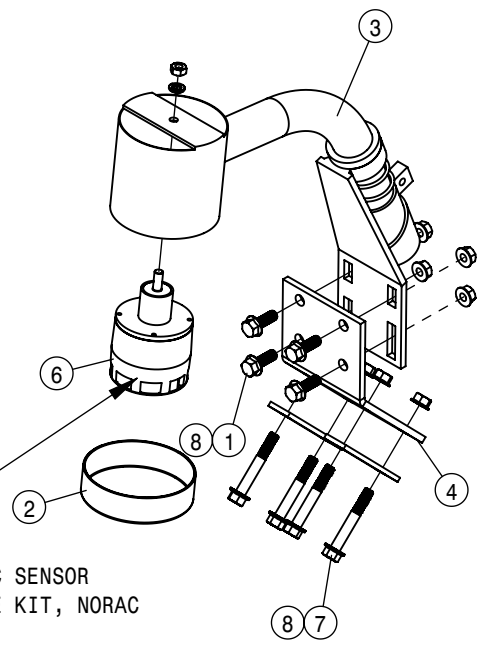
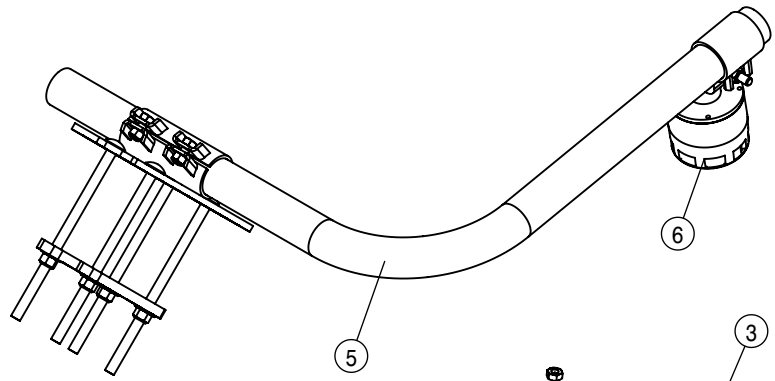
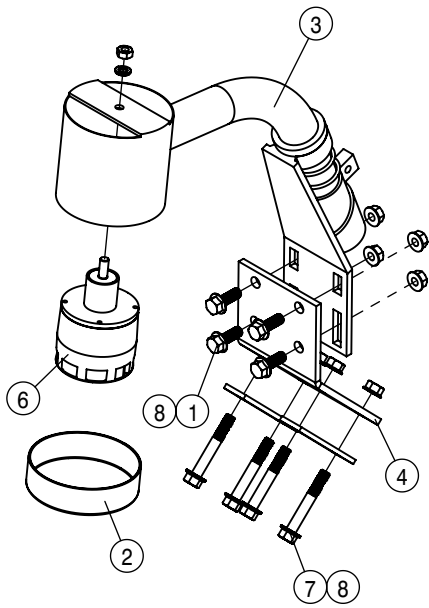
LEFT BOOM BREAKAWAY 90/100			
DET	QTY	P/N	DESCRIPTION
16	1	616360	06-451TC-06FJX-06FJX-84 H/A
17	1	616361	06-451TC-06FJX-06FJX-86 H/A
18	1	617054	04-451TC-06FJX-06FJX-11
19	1	618119	9/16MJIC-90-9/16MOR LBO
20	1	618629	9/16MOR BRANCH TEE-9/16MJIC
21	1	618668	9/16FJIC SWIV-9/16MOR ADPTR
22	1	621590	120' TIP FOLD CYL, STS 120' BM 08
NS	1	650428	DECAL SHEET, 90' BOOM
24	1	900265	1/2UNC X 1 1/2 HEX BOLT
25	1	900267	1/2UNC X 2" HEX BOLT
26	1	900519	1/2UNC X 2 HHSFB GR5 MC FT
27	2	906350	3/4UNC X 6" HEX BOLT FULL
28	2	914008	1/2 UNC HEX STOVER NUT
29	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

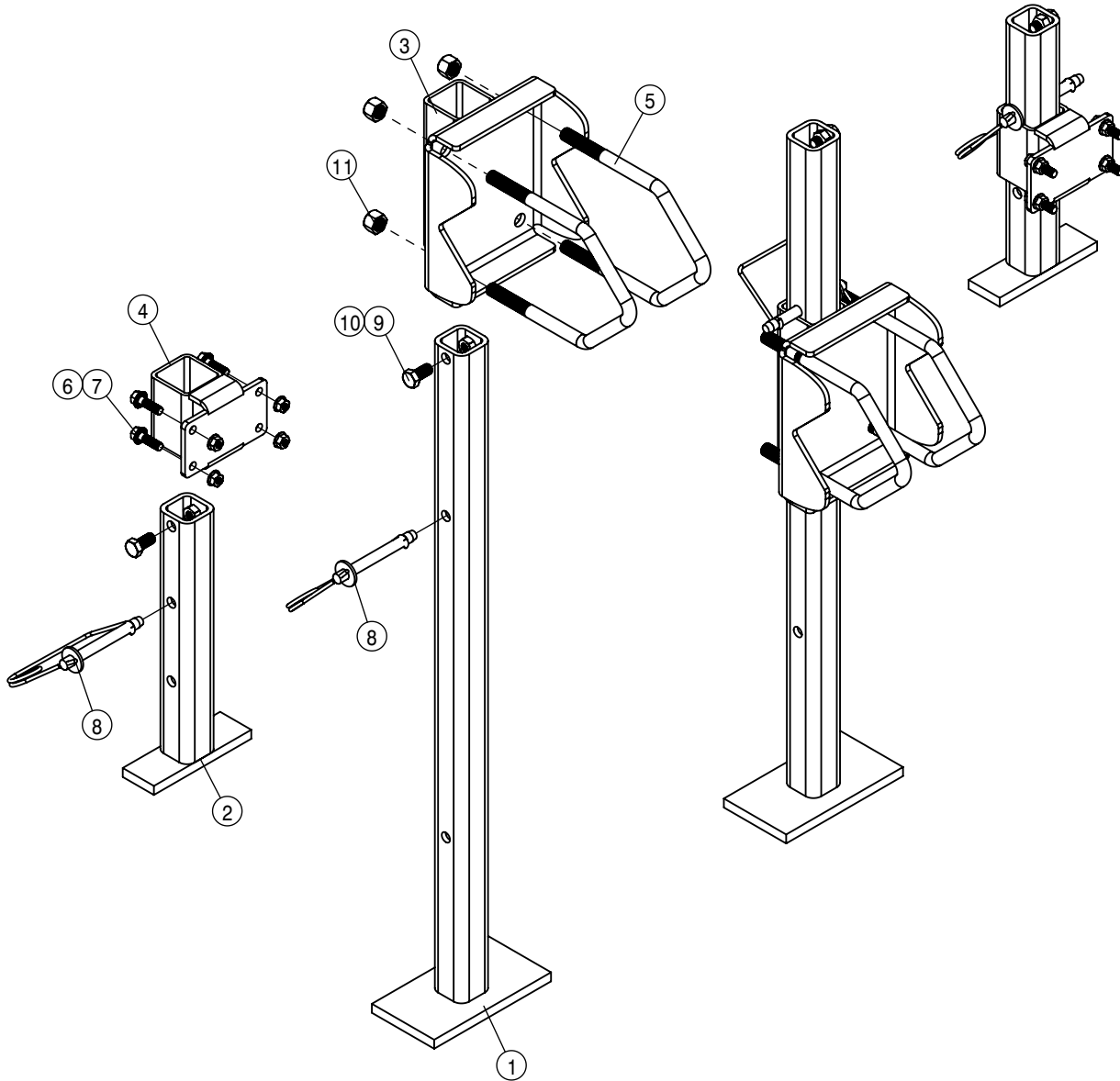


BOOM SUPPORT CRADLE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	164541	BOOM SUPPORT PAD
2	1	164542	BOOM SUPPORT CRADLE PAD
3	1	164543	BOOM SUPPORT KEEPER
4	1	164811	BOOM SUPP CRADLE WLD,80/90' 04
5	2	470087	3/8UNC HEX SERR FLANGE NUT
6	4	470328	3/8UNC X 1 1/4 #3HD PLOW BOLT
7	1	483043	3/8 REGULAR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

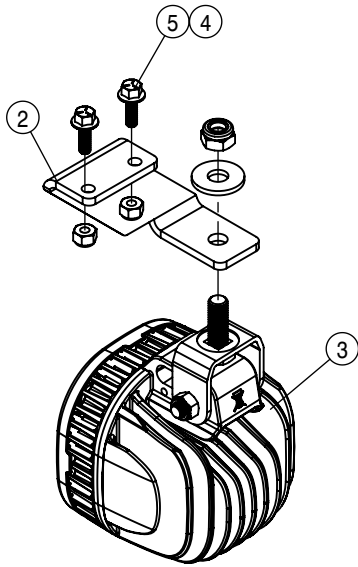


REPAIR PARTS
 693063-FOAM DISK, NORAC SENSOR
 693174-MESH/CLIP UPDATE KIT, NORAC

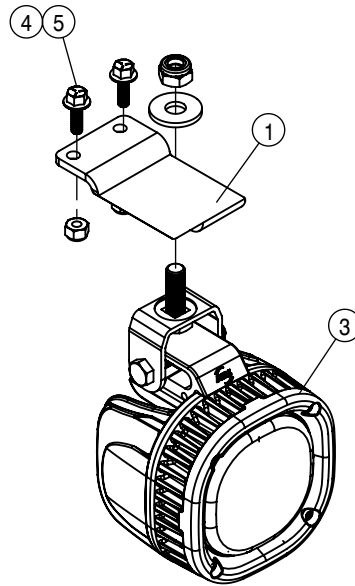
NORAC SENSOR MOUNTS 90/100			
DET	QTY	P/N	DESCRIPTION
1	8	470460	3/8 X 1" SERR FLG BOLT
2	2	629776	CAPPLUGS CAP,4.00ID X 1.25 RED
3	2	693068	SENSOR MTG BRKT, NORAC
4	2	693069	SENSOR MT BRKT ADPTR, NORAC
5	1	693072	MAIN LIFT SENSOR MT,UC4+,NORAC
6	3	693113	SENSOR, NORAC UC5 ULTRASONIC
7	8	900507	3/8UNC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

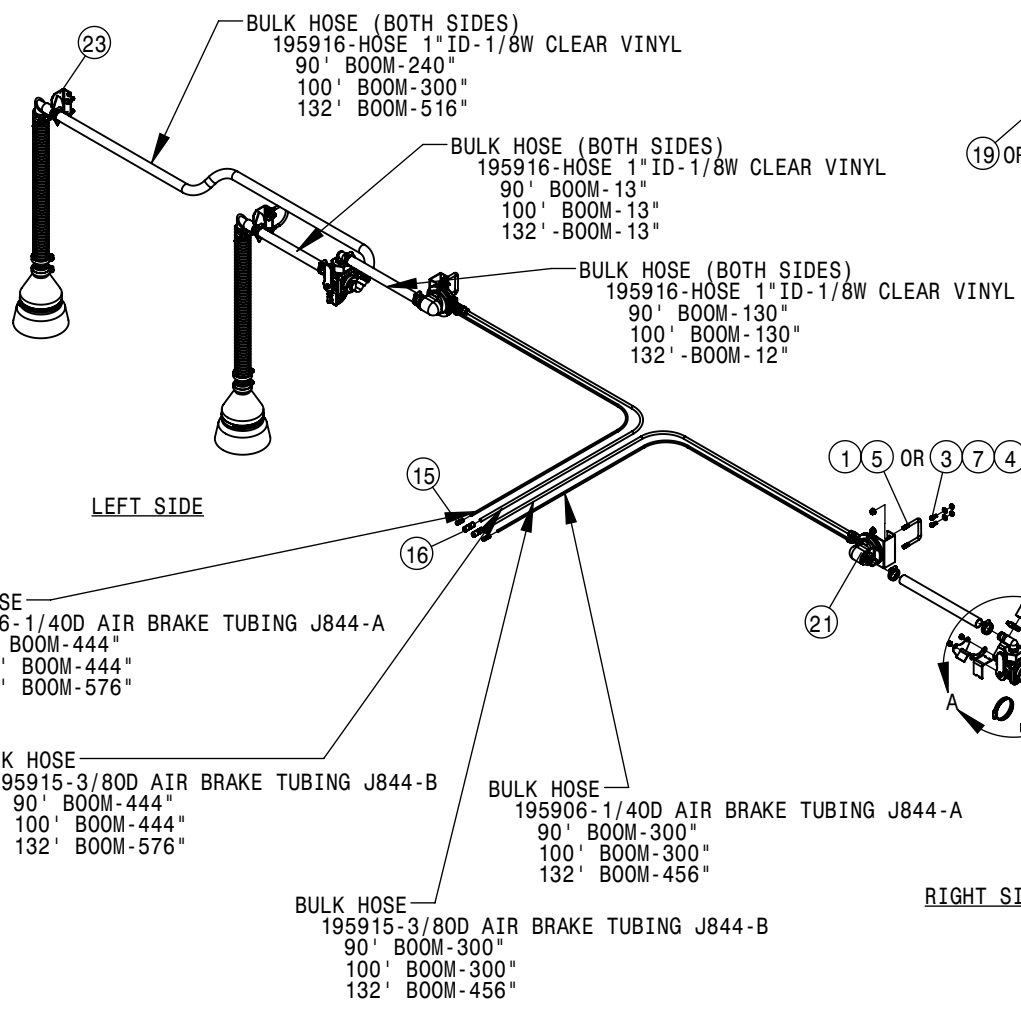
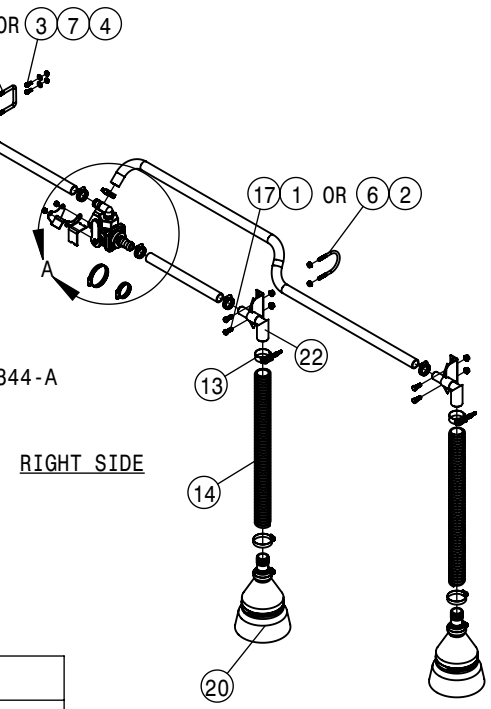
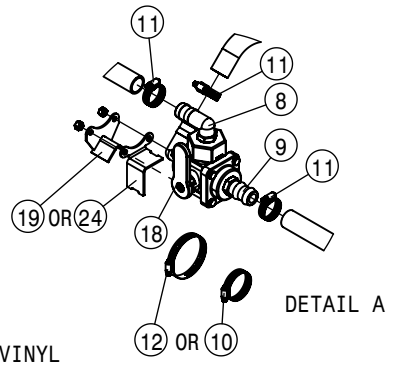


RIGHT SIDE



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	



BULK HOSE (BOTH SIDES)
195916-HOSE 1" ID-1/8W CLEAR VINYL
90' BOOM-240"
100' BOOM-300"
132' BOOM-516"

BULK HOSE (BOTH SIDES)
195916-HOSE 1" ID-1/8W CLEAR VINYL
90' BOOM-13"
100' BOOM-13"
132' -BOOM-13"

BULK HOSE (BOTH SIDES)
195916-HOSE 1" ID-1/8W CLEAR VINYL
90' BOOM-130"
100' BOOM-130"
132' -BOOM-12"

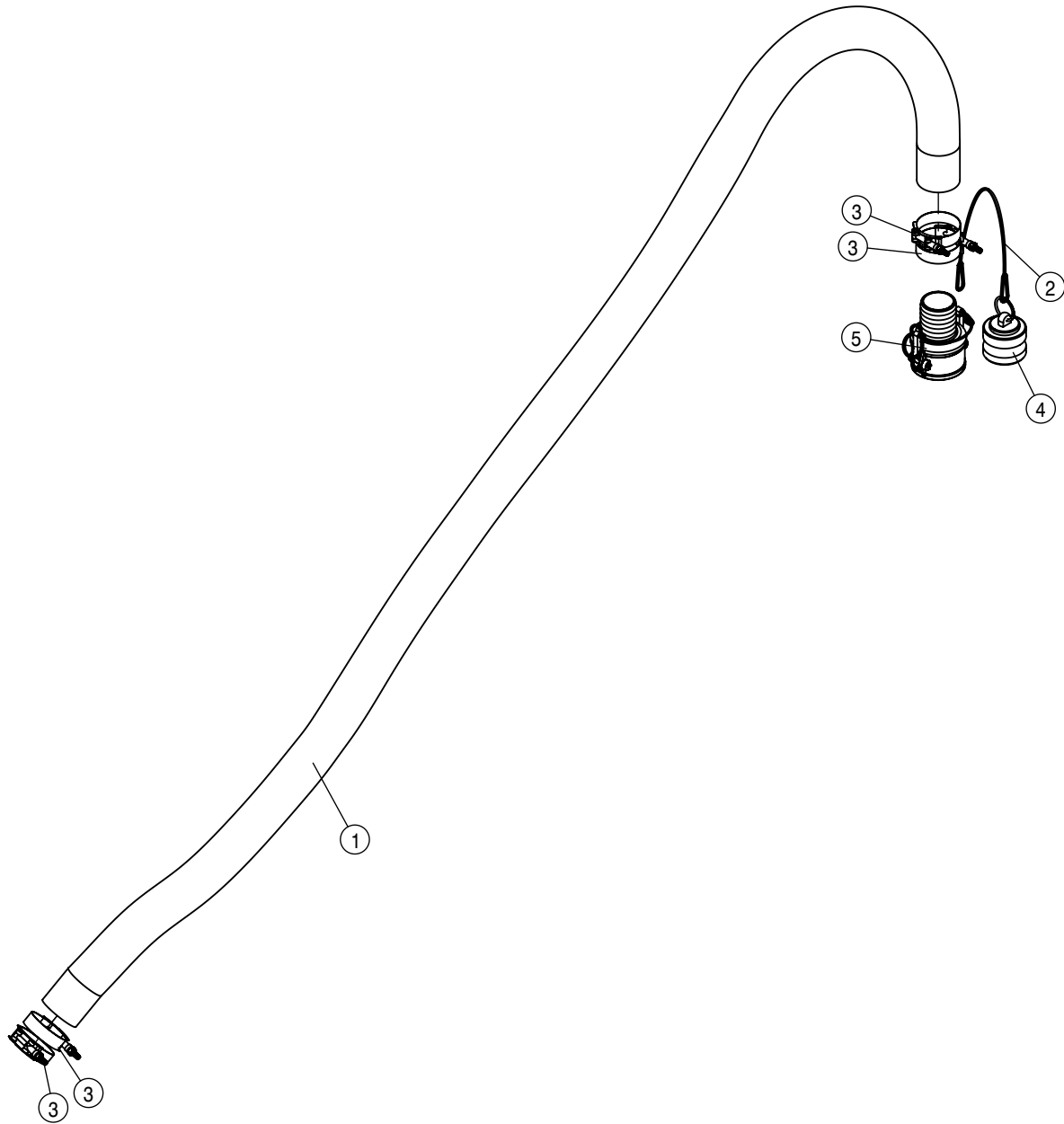
BULK HOSE
195906-1/40D AIR BRAKE TUBING J844-A
90' BOOM-444"
100' BOOM-444"
132' BOOM-576"

BULK HOSE
195915-3/80D AIR BRAKE TUBING J844-B
90' BOOM-444"
100' BOOM-444"
132' BOOM-576"

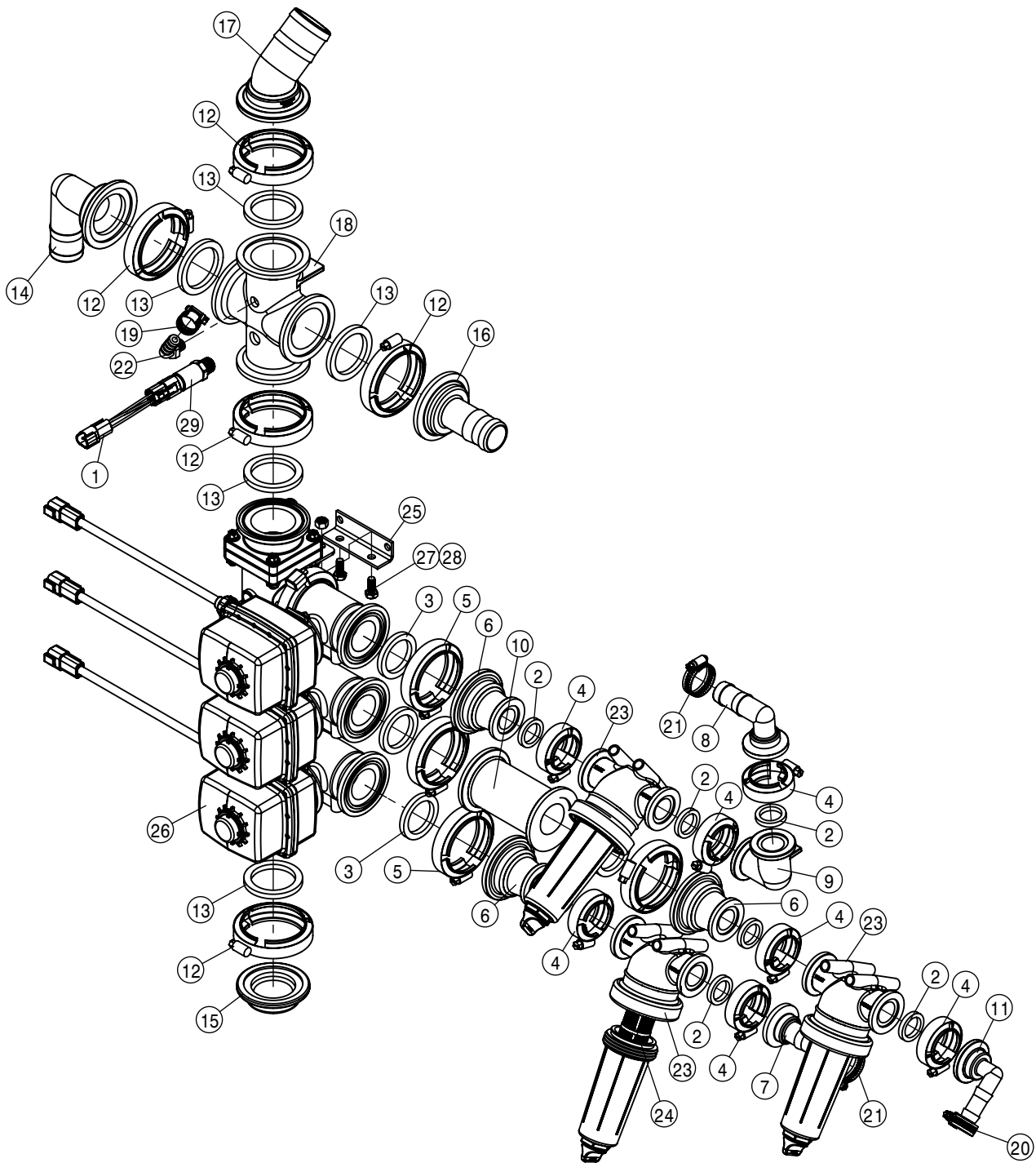
BULK HOSE
195906-1/40D AIR BRAKE TUBING J844-A
90' BOOM-300"
100' BOOM-300"
132' BOOM-456"

BULK HOSE
195915-3/80D AIR BRAKE TUBING J844-B
90' BOOM-300"
100' BOOM-300"
132' BOOM-456"

BOOM FOAMER OPTION 90' 100' 132'				
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	4	701334	2'	DROP HOSE 1 1/2"
15	2	711054	1/4	NYL TUBE UNION, STRAIGHT
16	2	711055	3/8	NYL TUBE UNION, STRAIGHT
17	8	900129	3/8UNC X 1"	HEX BOLT
18	2	696003		BALL VLV, 3/4NPT 3WAY-SIDE POLY
19	2	701191	1"	SOLU VLV MT WLD
20	4	701290	1 1/2"	COLLECTOR DEFLECTOR
21	2	701296		RICHWAY FOAMHEAD ASSEMBLY
22	2	701335		RH FOAMER DROP HOSE SWIV WLD
23	2	701336		LH FOAMER DROP HOSE SWIV WLD
24	2	701343		BALL VLV BRKT 120' BOOM

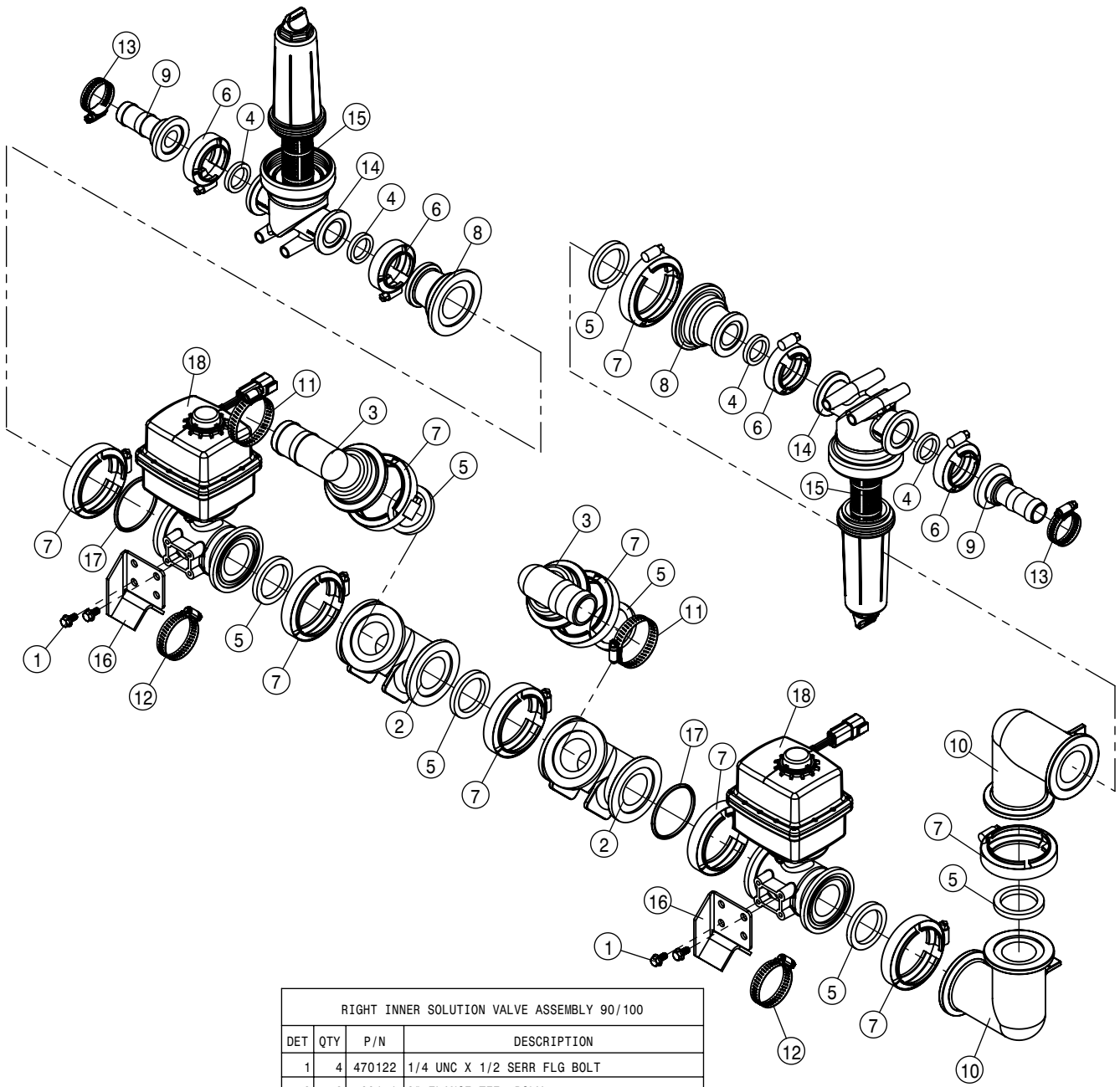


CAM COUPLING ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	197133-091	HOSE, 2ID X 091 2F-W1 EPDM
2	1	470322	LANYARD 8" NYLON LOOP/LOOP
3	4	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
4	1	690392	PLUG FOR 2.00 FEMALE COUPLER
5	1	690182	2" HOSE BARB CAMLOCK W/ LOCK

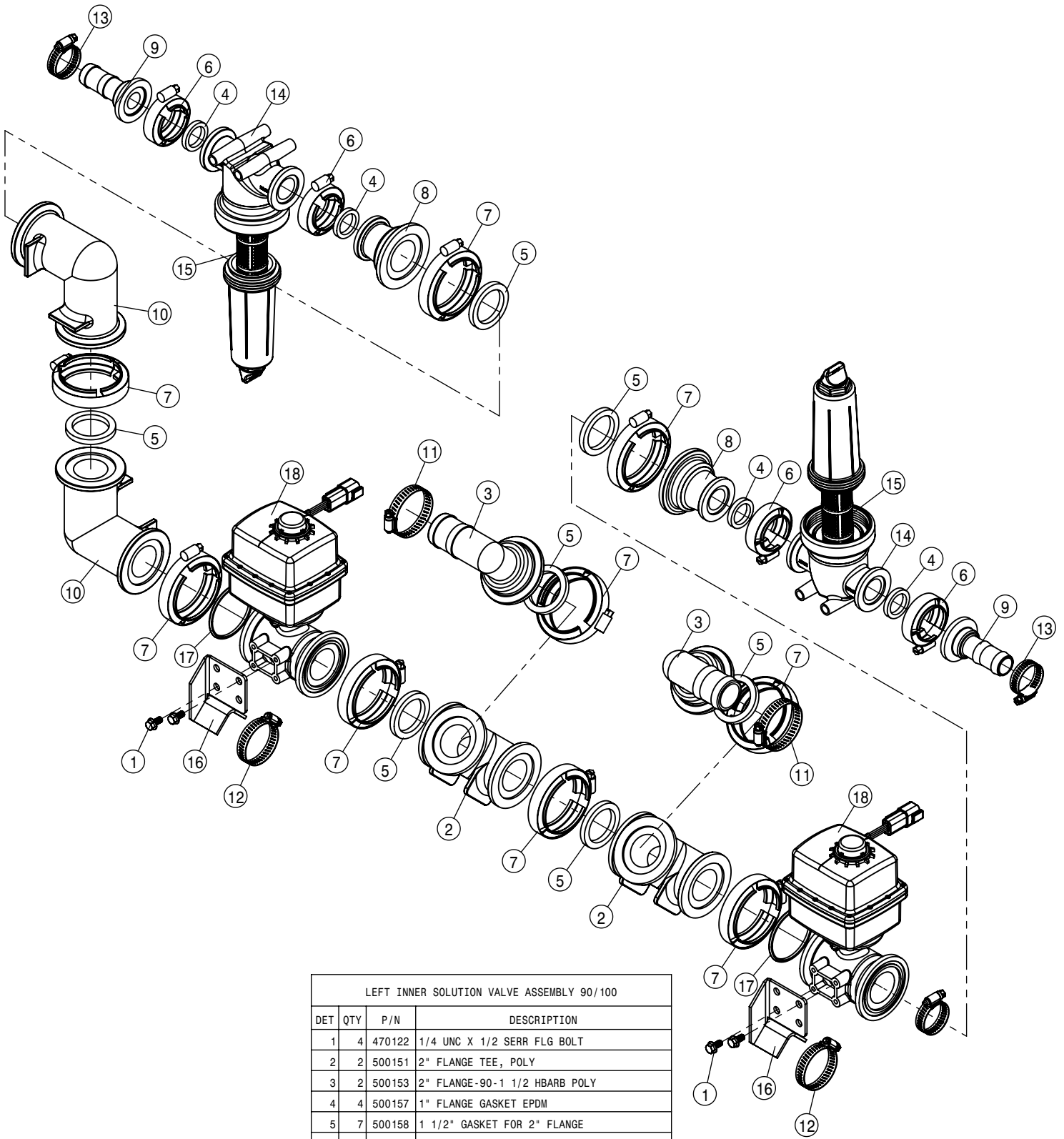


SOLUTION CONTROL VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	292739	HARNES, PRESSURE SENSOR '18
2	7	500157	1" FLANGE GASKET EPDM
3	4	500158	1 1/2" GASKET FOR 2" FLANGE
4	7	500159	1" FLANGE CLAMP S.S.
5	4	500160	2" FLANGE CLAMP S.S.
6	3	500161	2" FLANGE-1"FLANGE ADPTR POLY
7	1	500171	1" FLANGE-1" HOSE BARB POLY
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	500185	1"FLANGE-90-3/4"HOSE BARB POLY
12	5	500194	2" FP FLANGE CLAMP S.S.
13	5	500195	2" FP FLANGE GASKET EPDM
14	1	500197	2" FP FLANGE-90-1 1/2 HBARB
15	1	500206	2"FP FLANGE PLUG

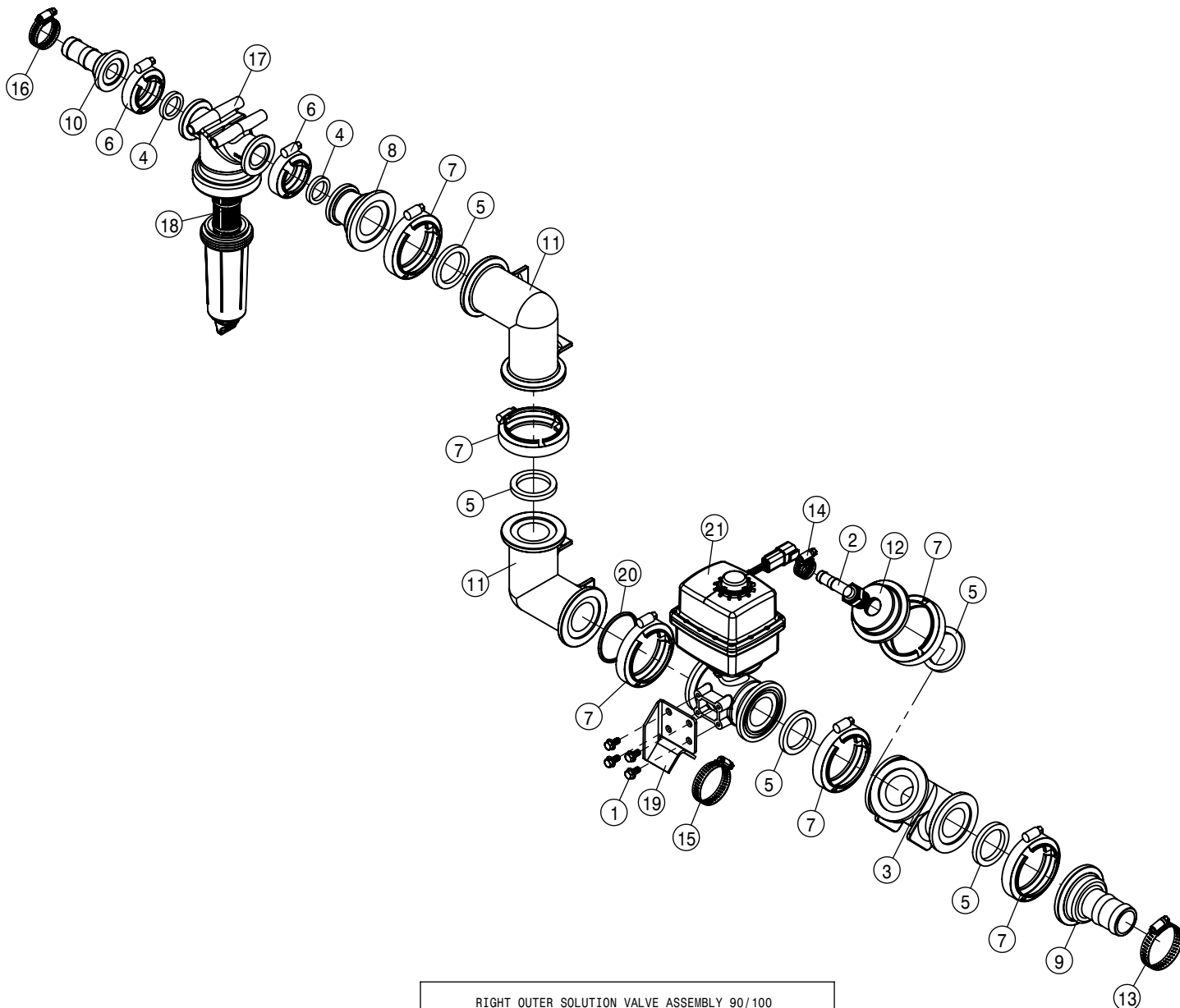
SOLUTION CONTROL VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
16	1	500230	2" FP FLANGE PLUG-1 1/2" HOSE BARB
17	1	500255	2"FP FLANGE - 45- 2"HOSE BARB POLY
18	1	500423	2" FP CROSS W/TWO GAGE PORTS
19	1	520070	HOSE CLAMP NO 8 STAINLESS
20	1	520080	HOSE CLAMP NO 10 STAINLESS
21	2	520090	HOSECLAMP NO 16 STAINLESS
22	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
23	3	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
24	3	690661	50 MESH SCREEN FOR 690660
25	2	690870	SOLU VLV MANIF MT BRKT STS 03
26	1	696259	VALVE, 3 SECT KZCO 400-3CIM-DJ
27	4	900064	5/16UNC X 3/4" HEX BOLT
28	4	914002	5/16UNC HEX STOVER NUT
29	1	AKK13435	PRESSURE TRANSDUCER, 0-200 PSI



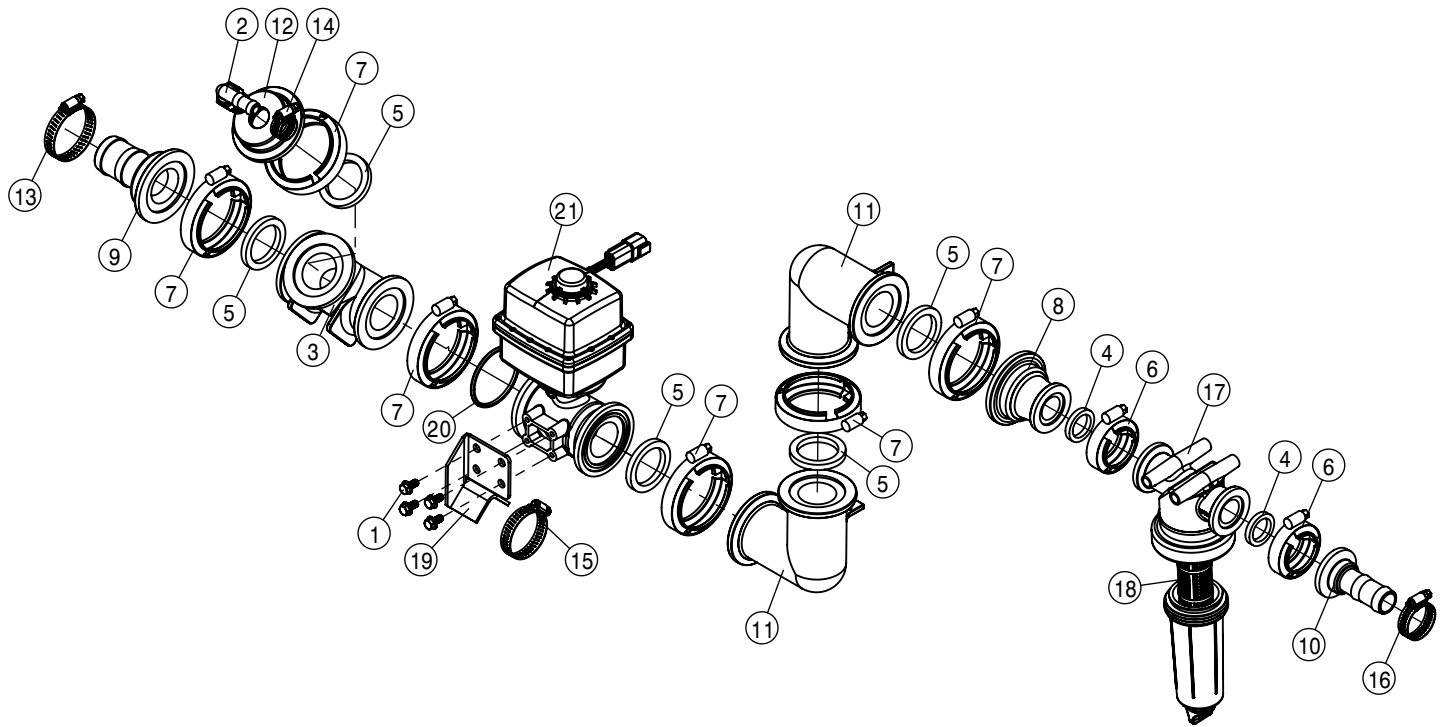
RIGHT INNER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	2	500151	2" FLANGE TEE, POLY
3	2	500153	2" FLANGE-90-1 1/2 HBARB POLY
4	4	500157	1" FLANGE GASKET EPDM
5	7	500158	1 1/2" GASKET FOR 2" FLANGE
6	4	500159	1" FLANGE CLAMP S.S.
7	9	500160	2" FLANGE 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

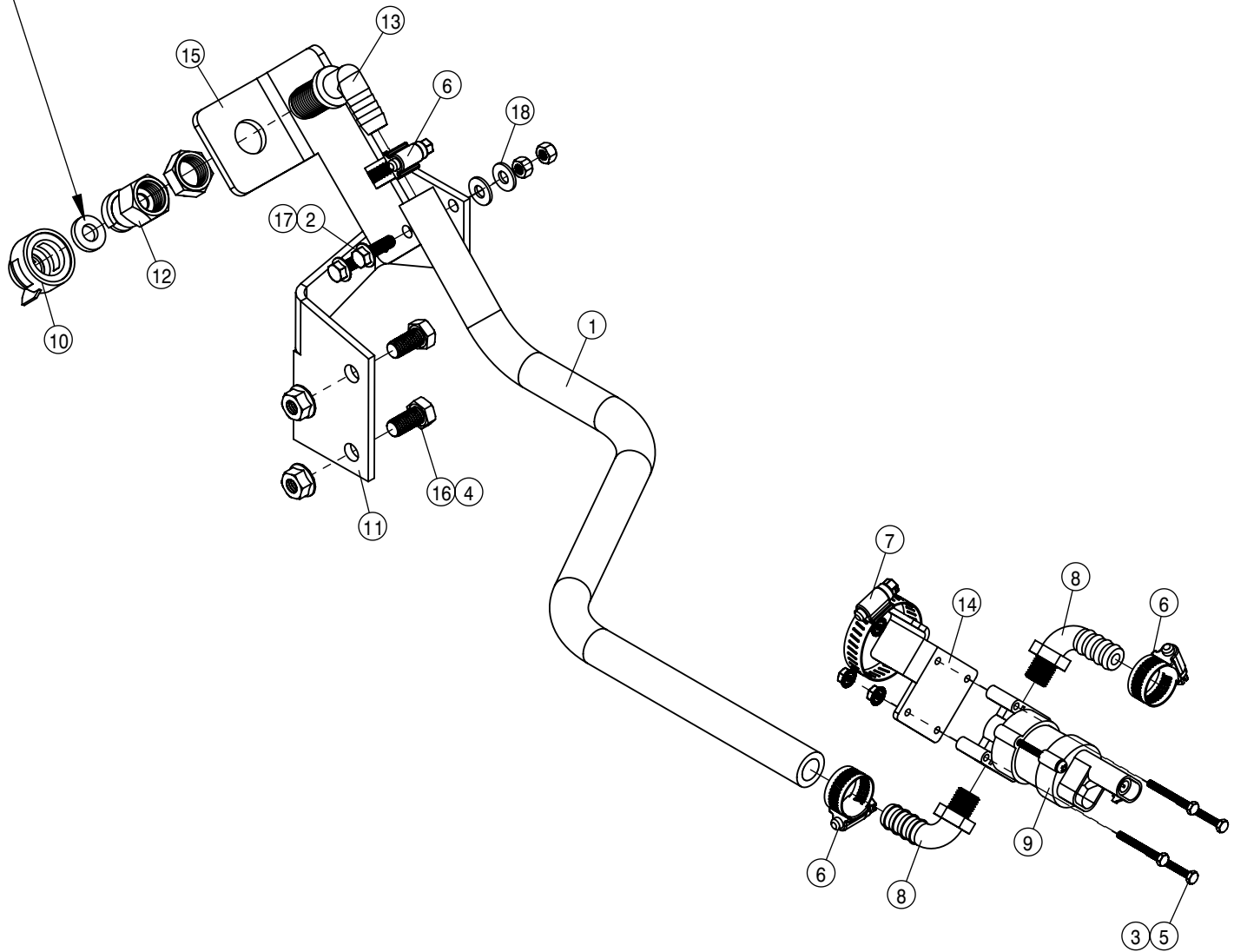


RIGHT OUTER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	1	500047	1/2NPT-90-1/2 HOSE BARB, POLY
3	1	500151	2" FLANGE TEE, POLY
4	2	500157	1" FLANGE GASKET EPDM
5	5	500158	1 1/2" GASKET FOR 2" FLANGE
6	2	500159	1" FLANGE CLAMP S.S.
7	6	500160	2" FLANGE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

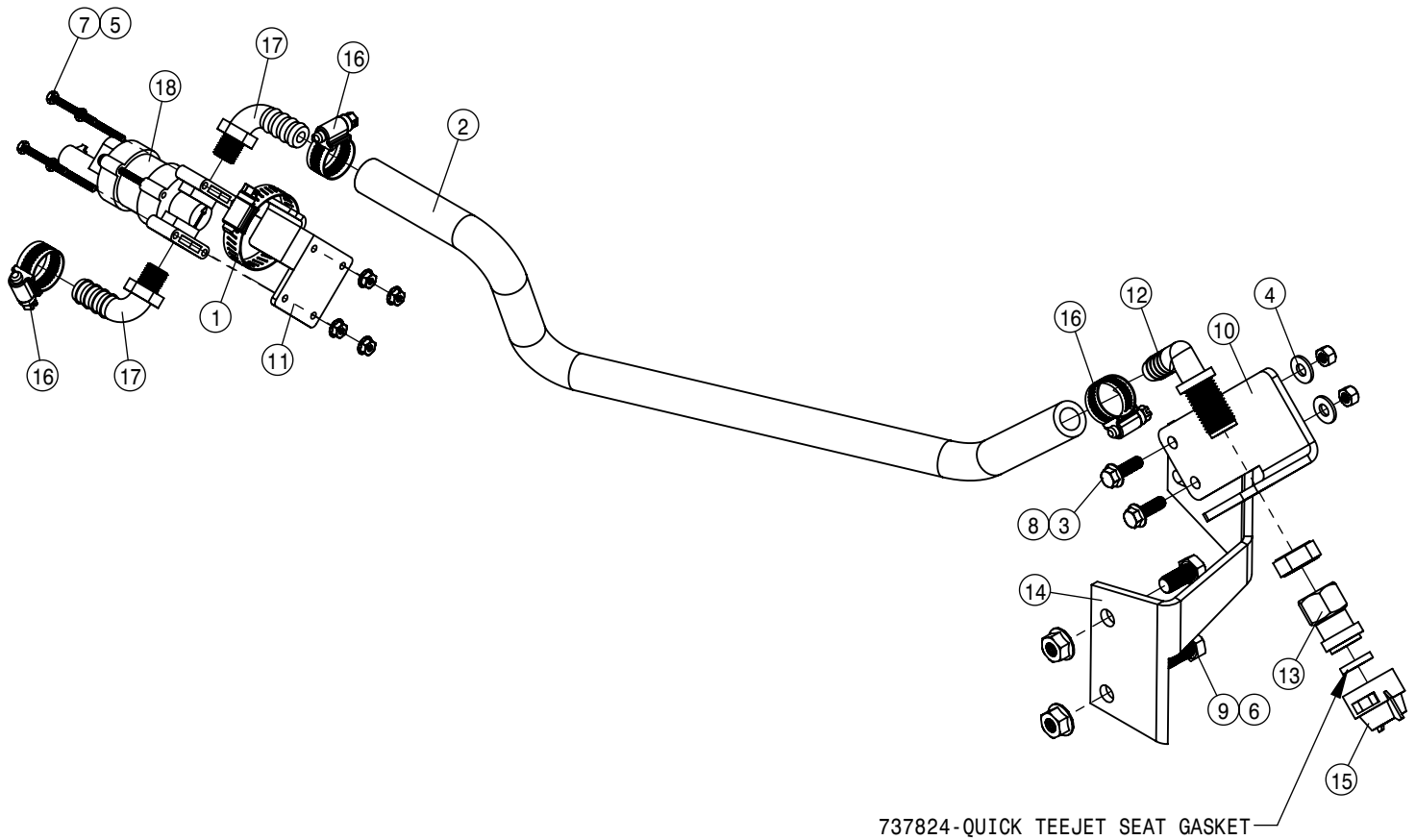


LEFT OUTER SOLUTION VALVE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	4	470122	1/4 UNC X 1/2 SERR FLG BOLT
2	1	500047	1/2NPT-90-1/2 HOSE BARB, POLY
3	1	500151	2" FLANGE TEE, POLY
4	2	500157	1" FLANGE GASKET EPDM
5	5	500158	1 1/2" GASKET FOR 2" FLANGE
6	2	500159	1" FLANGE CLAMP S.S.
7	6	500160	2" FLANGE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

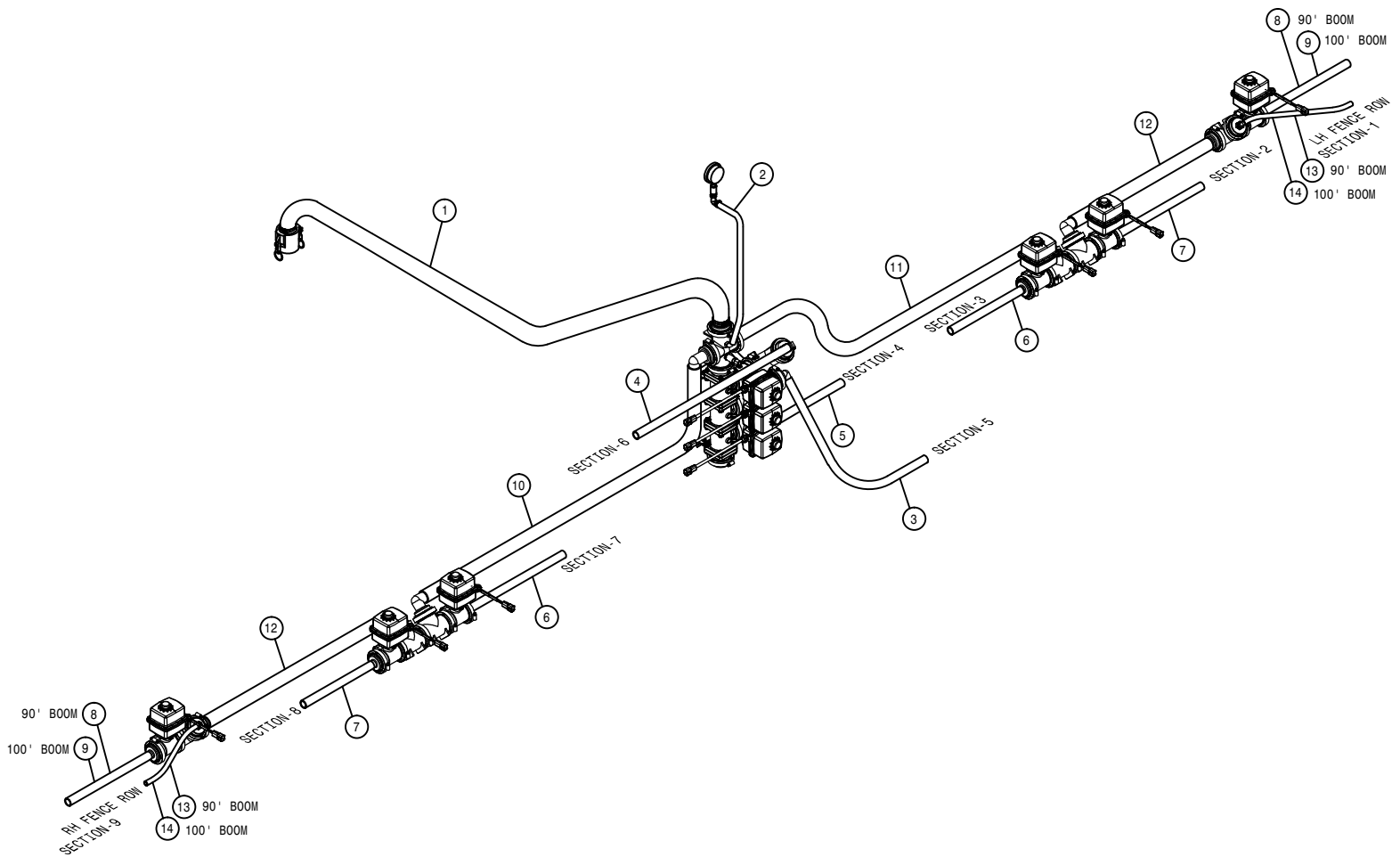
737824-QUICK TEEJET SEAT GASKET



RIGHT FENCE ROW NOZZLE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	197008-023	HOSE 1/2 1-FBR BR BLK EPDM
2	2	470118	1/4 UNC X 3/4 SER FLG BOLT
3	4	470509	6-32 SERR. FLANGE NUT
4	2	472029	3/8UNC SERR FLANGE NUT SS
5	4	473993	6-32 X 1 1/4 HH MACH SCR
6	3	520070	HOSE CLAMP NO 8 STAINLESS
7	1	520087	HOSE CLAMP NO 20 STAINLESS
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	737907	RH 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	737946	MTG BRKT-RH 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



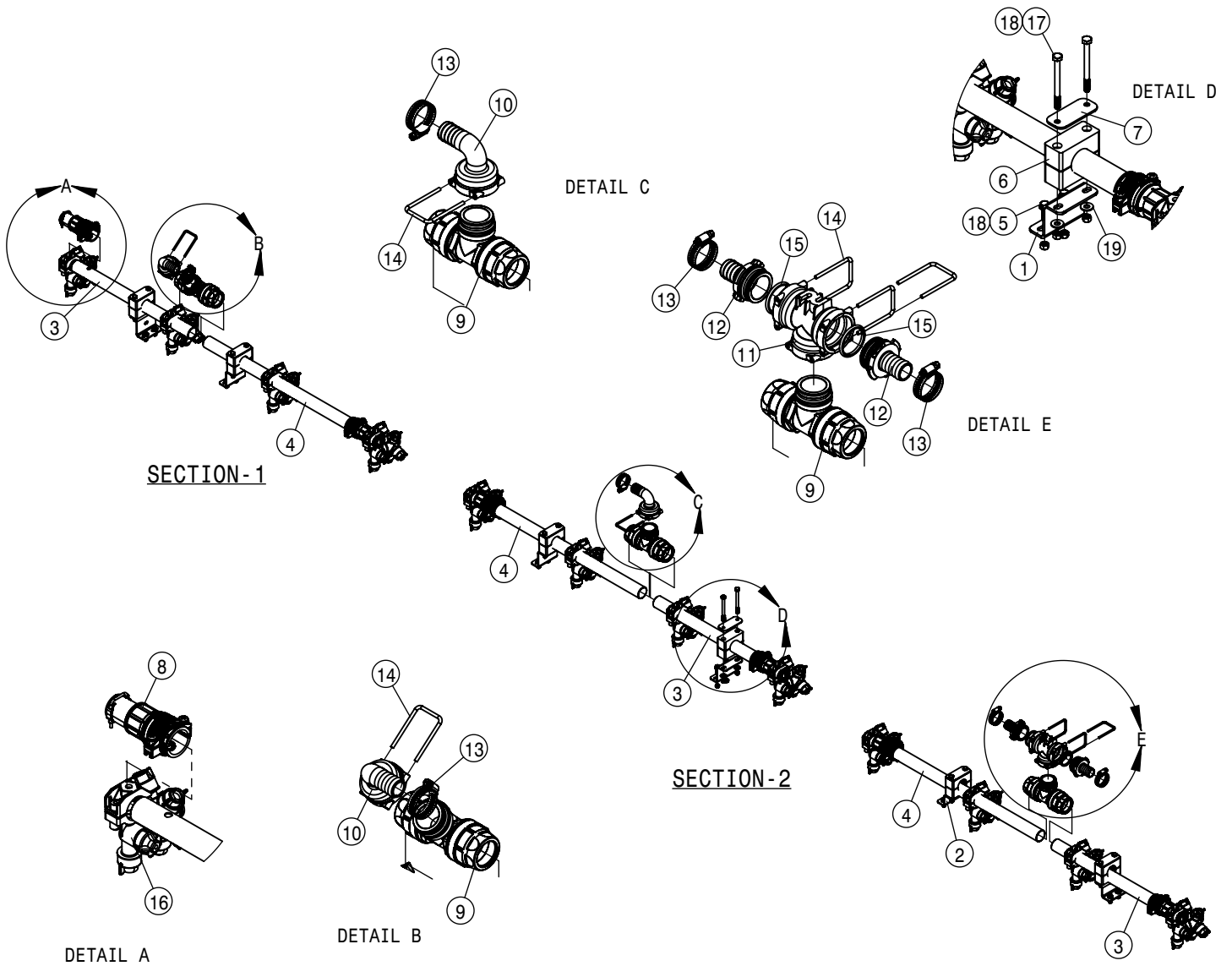
LEFT FENCE ROW NOZZLE ASSEMBLY 90/100			
DET	QTY	P/N	DESCRIPTION
1	1	520087	HOSE CLAMP NO 20 STAINLESS
2	1	197008-023	HOSE 1/2 1-FBR BR BLK EPDM
3	2	470118	1/4 UNC X 3/4 SER FLG BOLT
4	2	920000	1/4 SAE FLAT WASHER
5	4	470509	6-32 SERR. FLANGE NUT
6	2	472029	3/8UNC SERR FLANGE NUT SS
7	4	473993	6-32 X 1 1/4 HH MACH SCR
8	2	914000	1/4UNC HEX STOVER NUT
9	2	900128	3/8UNC X 3/4 HEX BOLT
10	1	737947	MTG BRKT-LH FENCE ROW NOZZLE
11	1	737945	MTG BRKT-SOLENOID, FENCE ROW
12	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
13	1	737931	11/16-16F-QUICK TJET ADAPTER
14	1	737908	LH FENCE ROW TIP BRKT MT
15	1	737822	CAP SET, YELLOW QUICK TEEJET
16	3	520070	HOSE CLAMP NO 8 STAINLESS
17	2	618556	1/4NPT-90 1/2 HOSE BARB POLY
18	1	696235	1/4" ELECT SOLU SOLE VLV, 2203



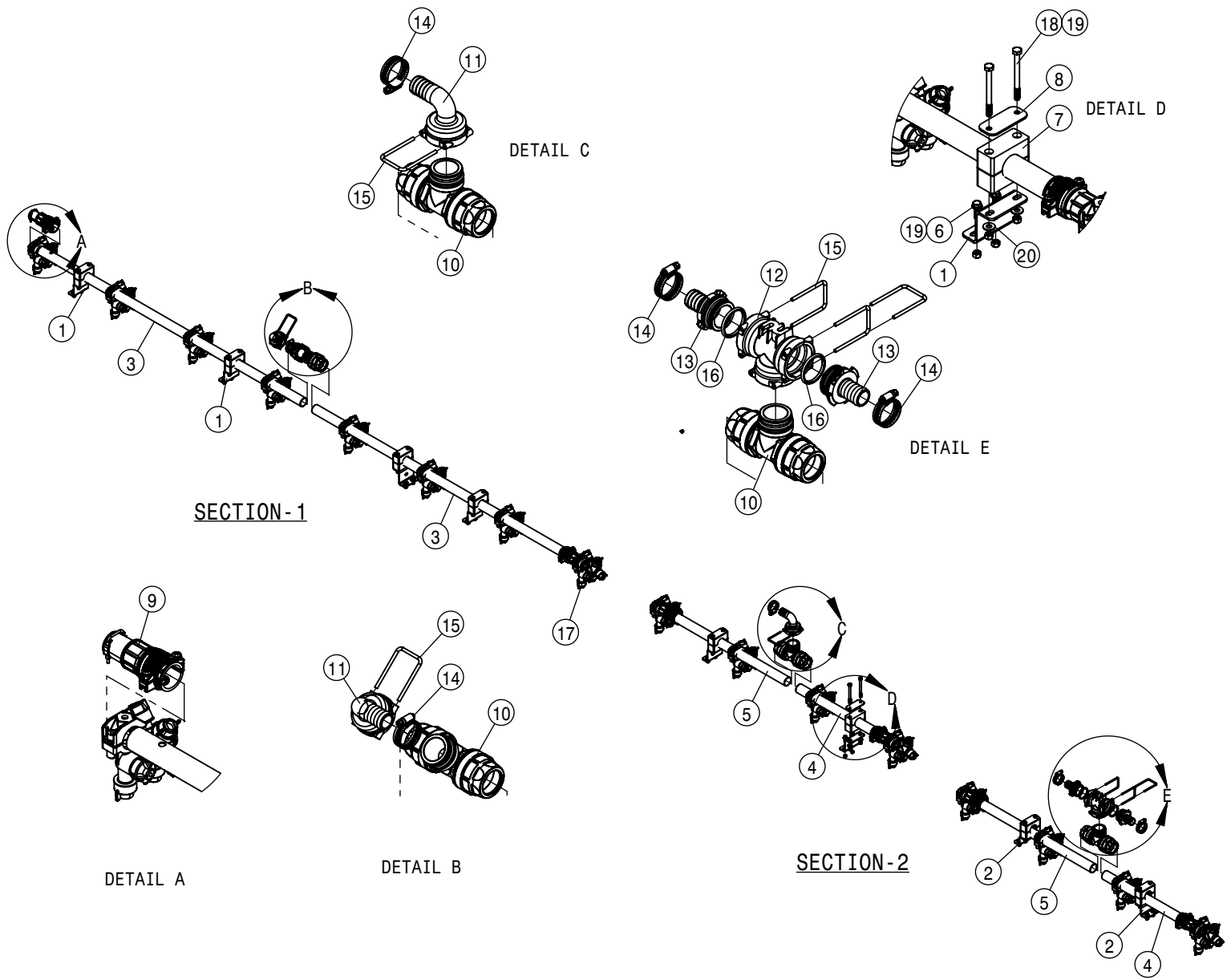
SOLUTION HOISING 90' / 100' BOOM

DET. QTY PART NO. DESCRIPTION

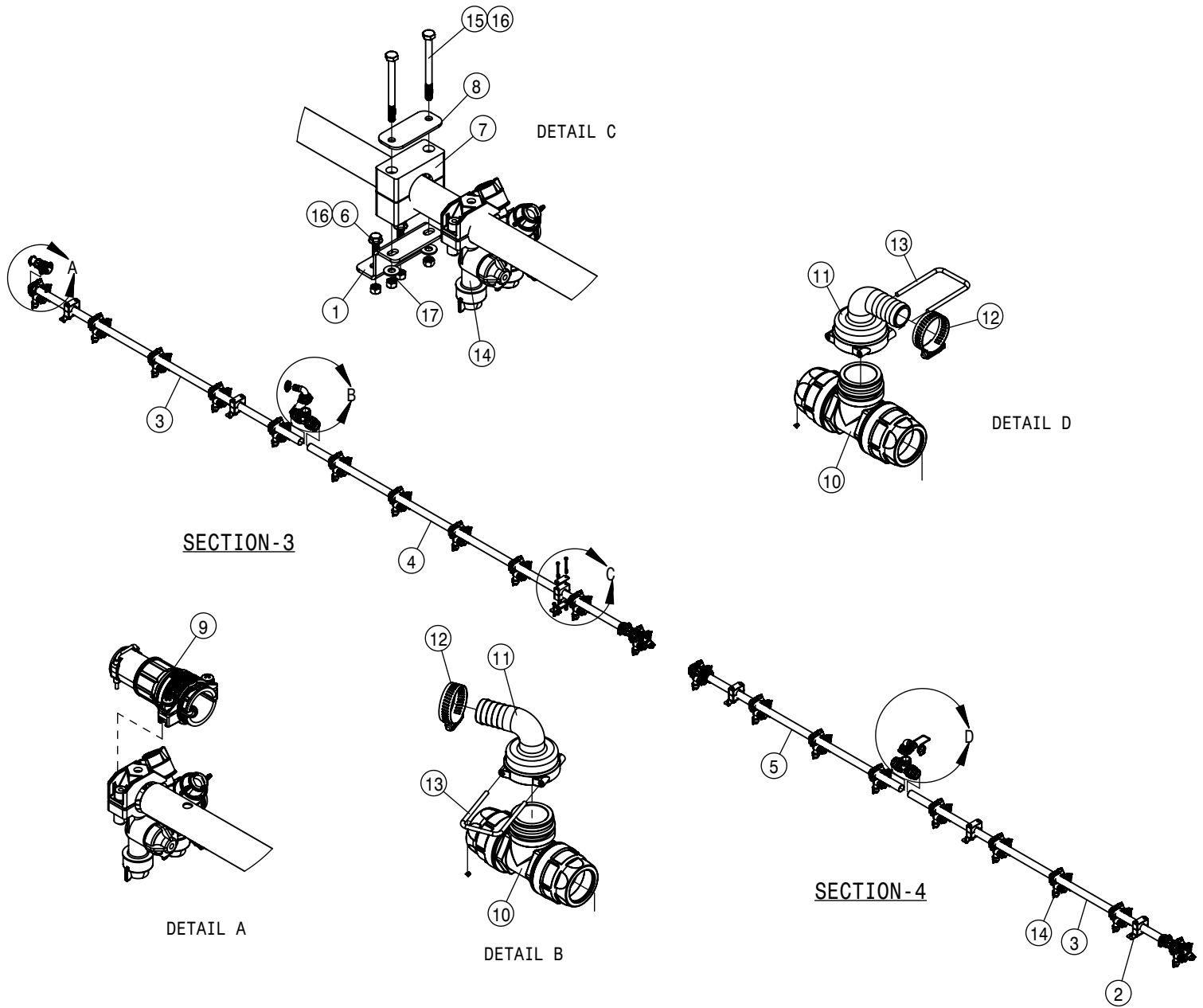
DET.	QTY	PART NO.	DESCRIPTION
1	1	197133-091	HOSE 2" SUCTION, 2F-1W EPDM
2	1	197008-078	HOSE 1/2 1-FBR BR BLK EPDM
3	1	197112-072	HOSE 3/4 1-FBR BR BLK EPDM
4	1	197116-225	HOSE 1IN 1-FBR BR BLK EPDM
5	1	197116-310	HOSE 1IN 1-FBR BR BLK EPDM
6	2	197116-115	HOSE 1IN 1-FBR BR BLK EPDM
7	2	197116-069	HOSE 1IN 1-FBR BR BLK EPDM
8	2	197116-065	HOSE 1IN 1-FBR BR BLK EPDM
9	2	197116-076	HOSE 1IN 1-FBR BR BLK EPDM
10	1	197124-315	HOSE 1 1/2 2-FBR BR BLK EPDM
11	1	197124-415	HOSE 1 1/2 2-FBR BR BLK EPDM
12	2	197124-142	HOSE 1 1/2 2-FBR BR BLK EPDM
13	2	197008-059	HOSE 1/2 1-FBR BR BLK EPDM
14	2	197008-143	HOSE 1/2 1-FBR BR BLK EPDM



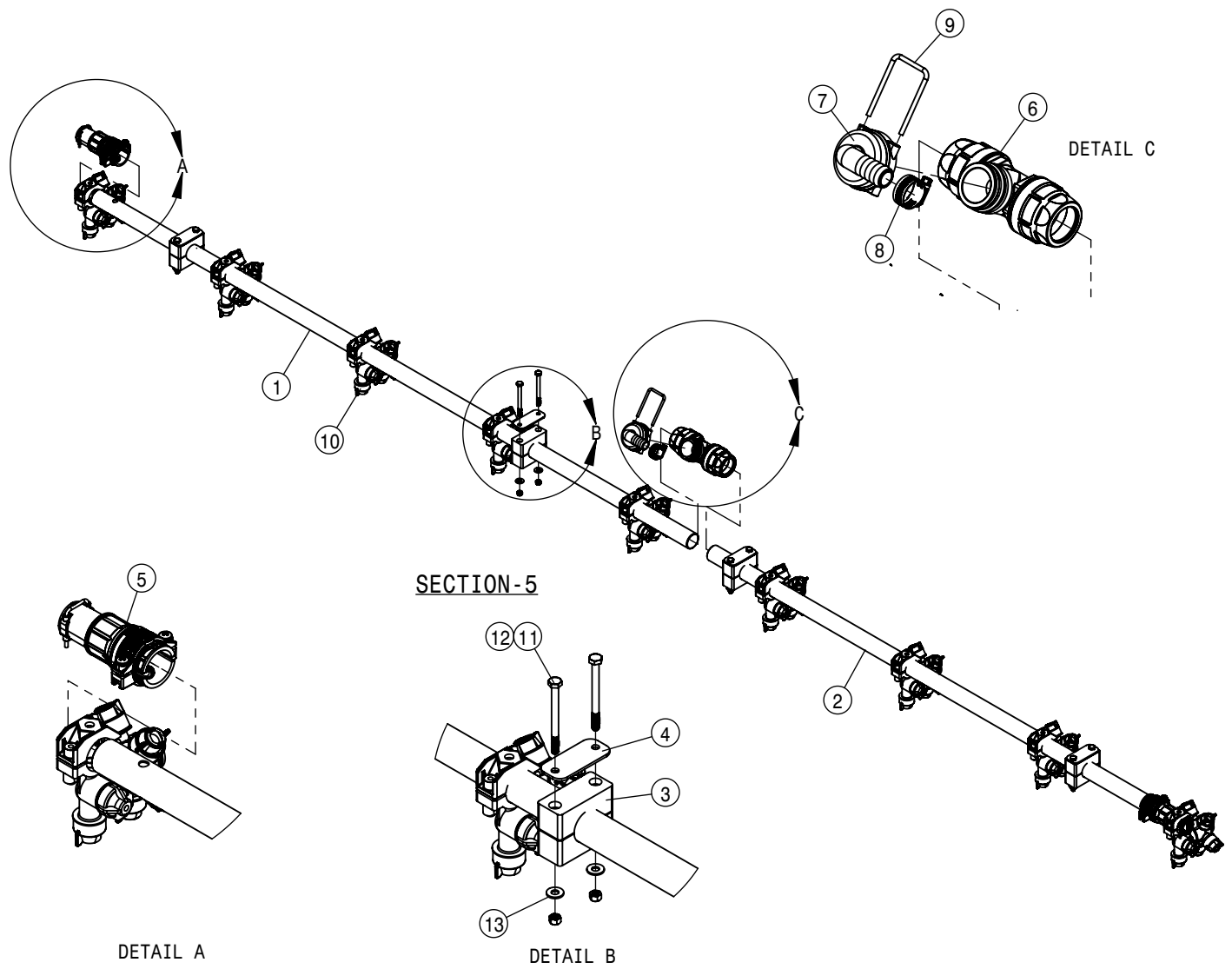
15" WET BOOM SPACING, SECTION 1-2 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167235	15" WET BOOM TUBE, 17.32 LG
4	3	167236	15" WET BOOM TUBE, 24.00 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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, -221 EPDM
16	12	737925	QUICK TJET 5 + 1-TIP BODY 1"
17	12	900010	1/4UNC X 3" HEX BOLT
18	24	914000	1/4UNC HEX STOVER NUT
19	12	920000	1/4 SAE FLAT WASHER



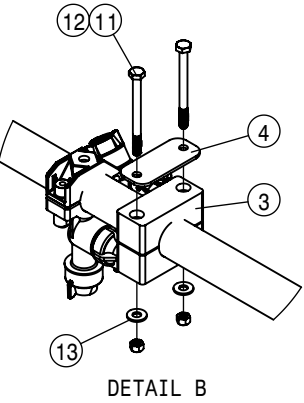
15" WET BOOM SPACING, SECTION 1-2 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167229	15" WET BOOM TUBE, 50.66 LG
4	2	167235	15" WET BOOM TUBE, 17.32 LG
5	2	167236	15" WET BOOM TUBE, 24.00 LG
6	16	470118	1/4 UNC X 3/4 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, -221 EPDM
17	16	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	16	900010	1/4UNC X 3" HEX BOLT
19	32	914000	1/4UNC HEX STOVER NUT
20	16	920000	1/4 SAE FLAT WASHER



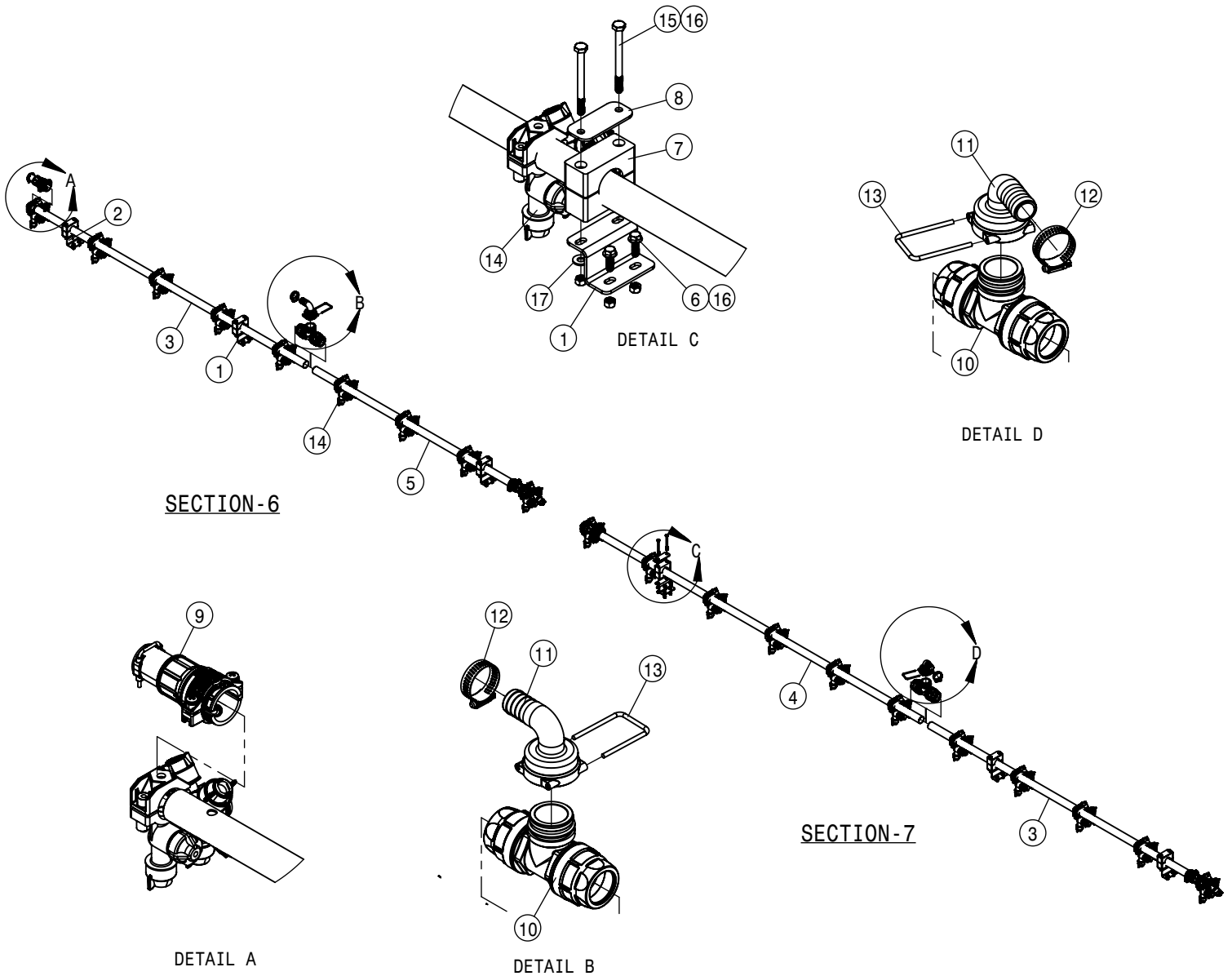
15" WET BOOM SPACING, SECTION 3-4 90/100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	2	167225	15" WET BOOM TUBE, 65.66 LG
4	1	167228	15" WET BOOM TUBE, 80.66 LG
5	1	167229	15" WET BOOM TUBE, 50.66 LG
6	12	470118	1/4 UNC X 3/4 SER 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	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



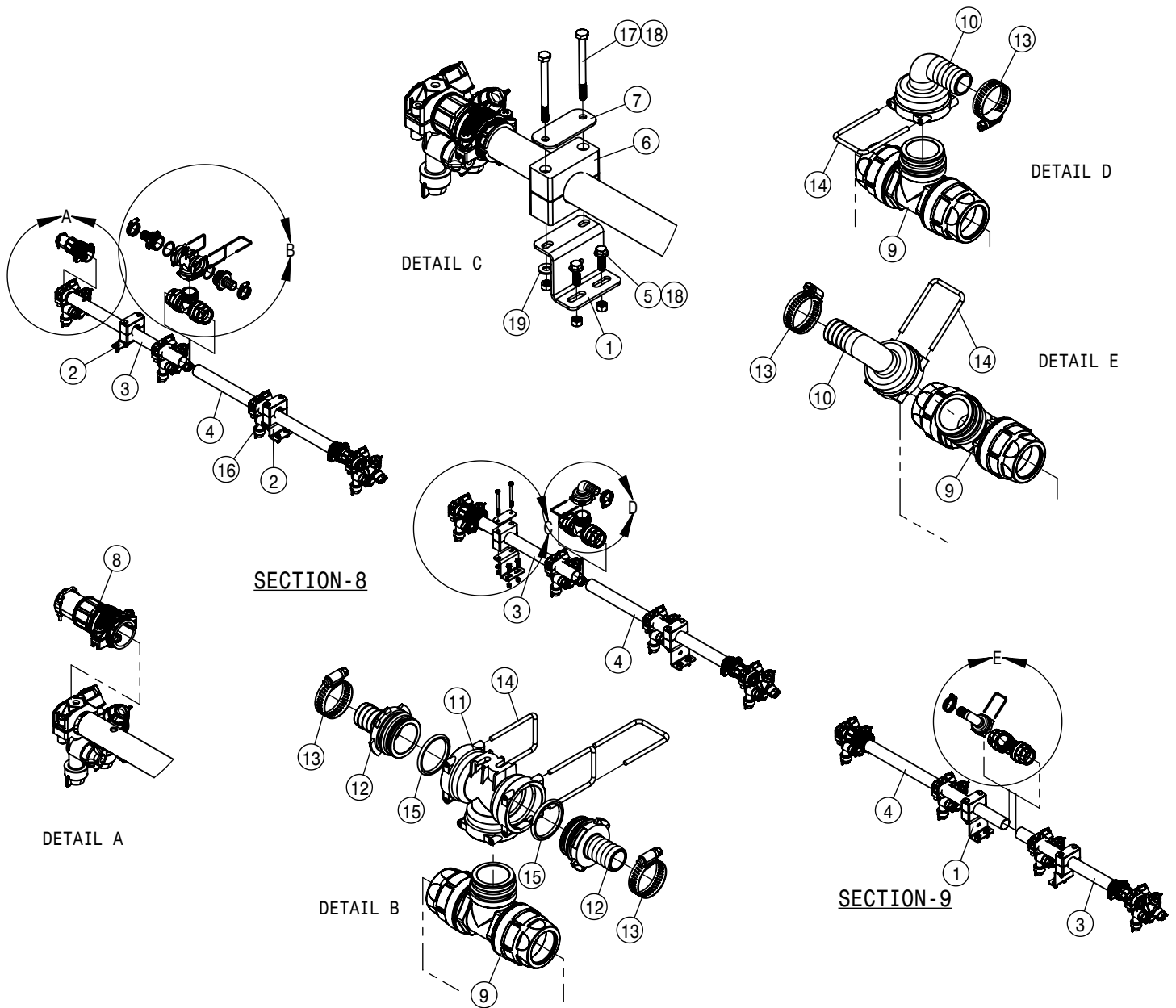
SECTION-5



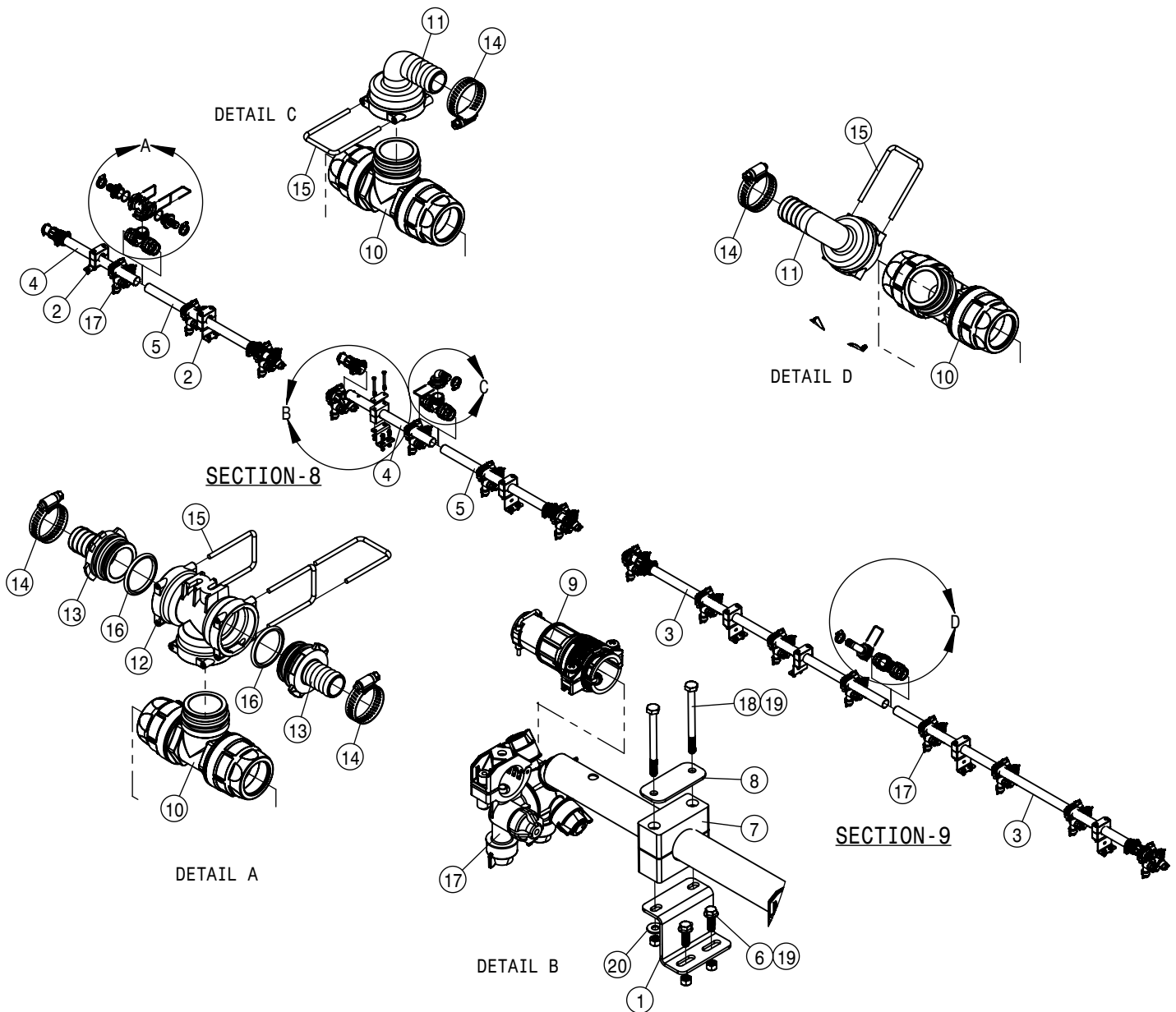
15' WET BOOM SPACING, SECTION-5 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	1	167225	15" WET BOOM TUBE, 65.66 LG
2	1	167229	15" WET BOOM TUBE, 50.66 LG
3	4	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	4	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500297	T5 TO 20MM HB 90
8	1	520080	HOSE CLAMP NO 10 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	8	900010	1/4UNC X 3" HEX BOLT
12	8	914000	1/4UNC HEX STOVER NUT
13	8	920000	1/4 SAE FLAT WASHER



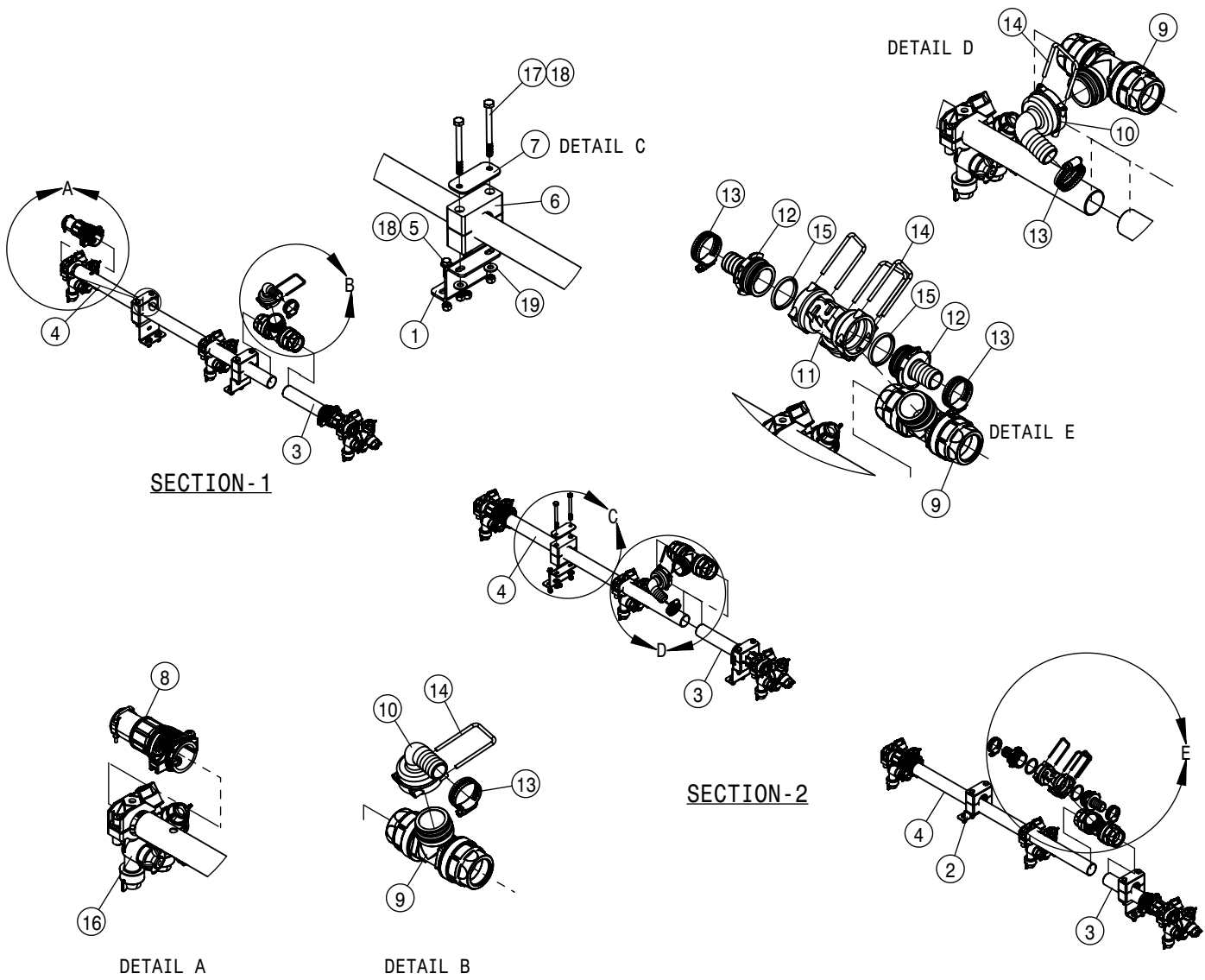
15" WET BOOM SPACING, SECTION 6-7 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	2	167225	15" WET BOOM TUBE, 65.66 LG
4	1	167228	15" WET BOOM TUBE, 80.66 LG
5	1	167229	15" WET BOOM TUBE, 50.66 LG
6	12	470118	1/4 UNC X 3/4 SER 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	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



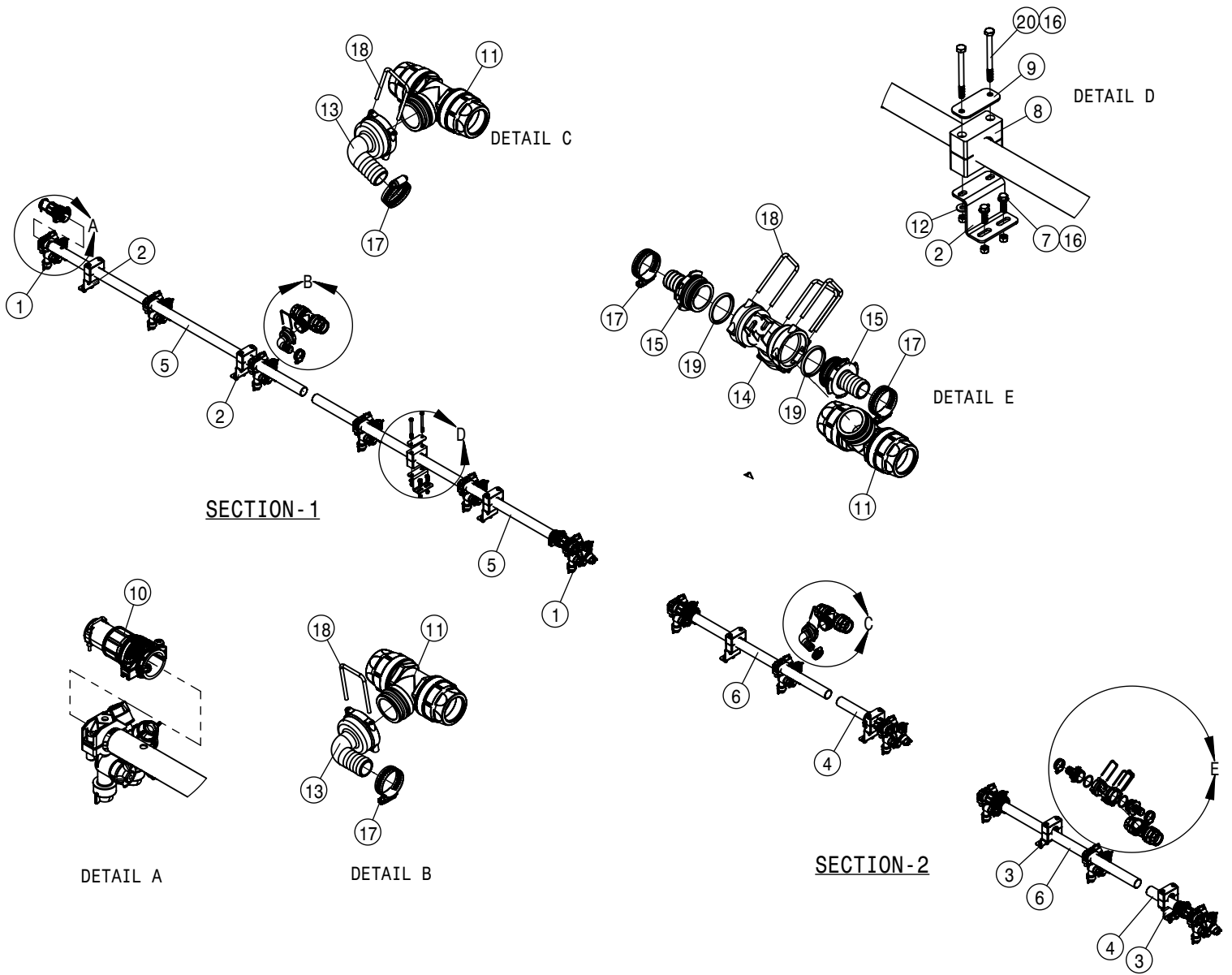
15" WET BOOM SPACING, SECTION 8-9 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167235	15" WET BOOM TUBE, 17.32 LG
4	3	167236	15" WET BOOM TUBE, 24.00 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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, -221 EPDM
16	12	737925	QUICK TJET 5 + 1-TIP BODY 1"
17	12	900010	1/4UNC X 3" HEX BOLT
18	24	914000	1/4UNC HEX STOVER NUT
19	12	920000	1/4 SAE FLAT WASHER



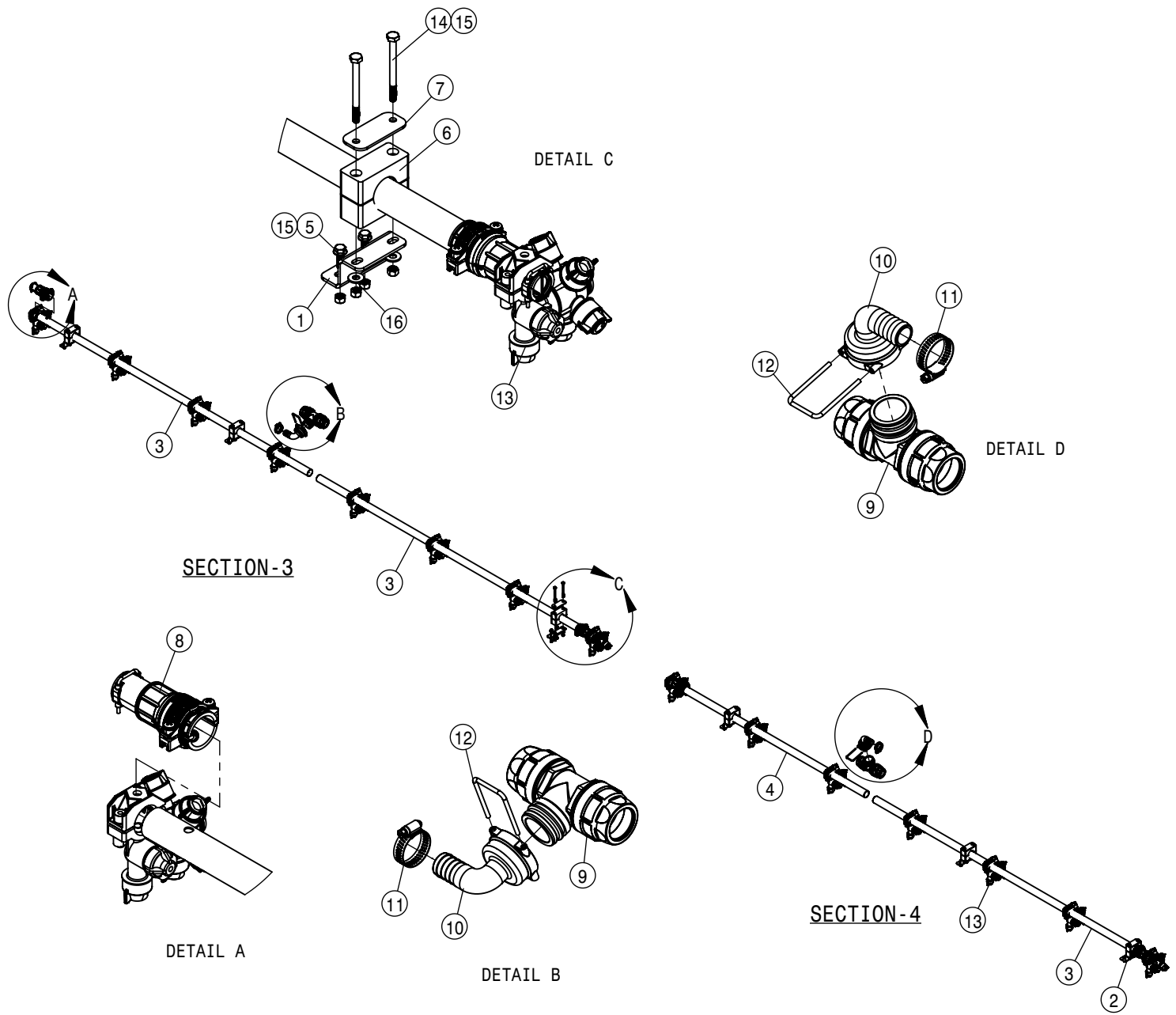
15" WET BOOM SPACING, SECTION 8-9 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	2	167229	15" WET BOOM TUBE, 50.66 LG
4	2	167235	15" WET BOOM TUBE, 17.32 LG
5	2	167236	15" WET BOOM TUBE, 24.00 LG
6	16	470118	1/4 UNC X 3/4 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, -221 EPDM
17	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	16	900010	1/4UNC X 3" HEX BOLT
19	32	914000	1/4UNC HEX STOVER NUT
20	16	920000	1/4 SAE FLAT WASHER



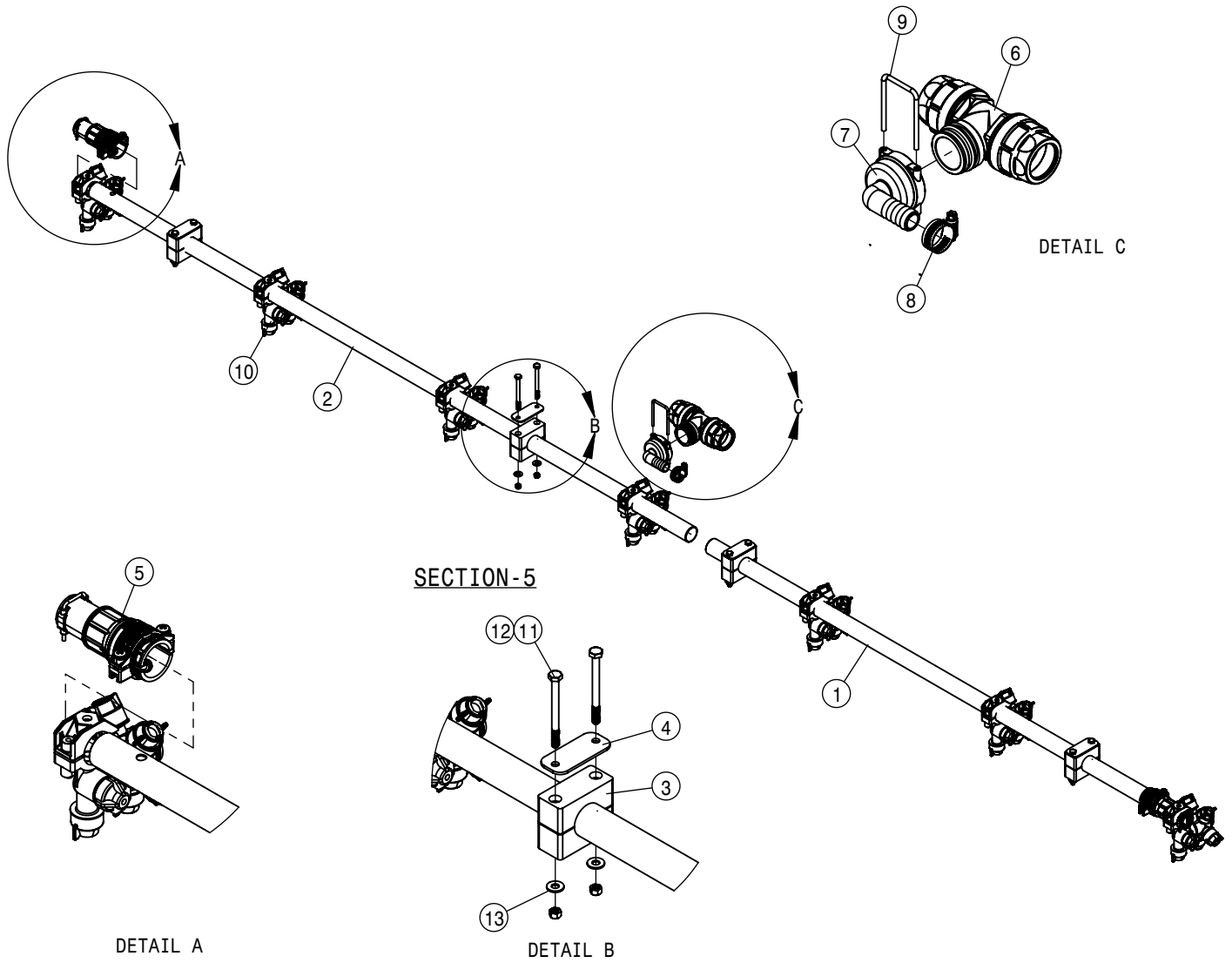
20" WET BOOM SPACING, SECTION 1-2 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167234	20" WET BOOM TUBE, 8.13 LG
4	3	167263	20" WET BOOM TUBE, 28.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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, -221 EPDM
16	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
17	12	900010	1/4UNC X 3" HEX BOLT
18	24	914000	1/4UNC HEX STOVER NUT
19	12	920000	1/4 SAE FLAT WASHER



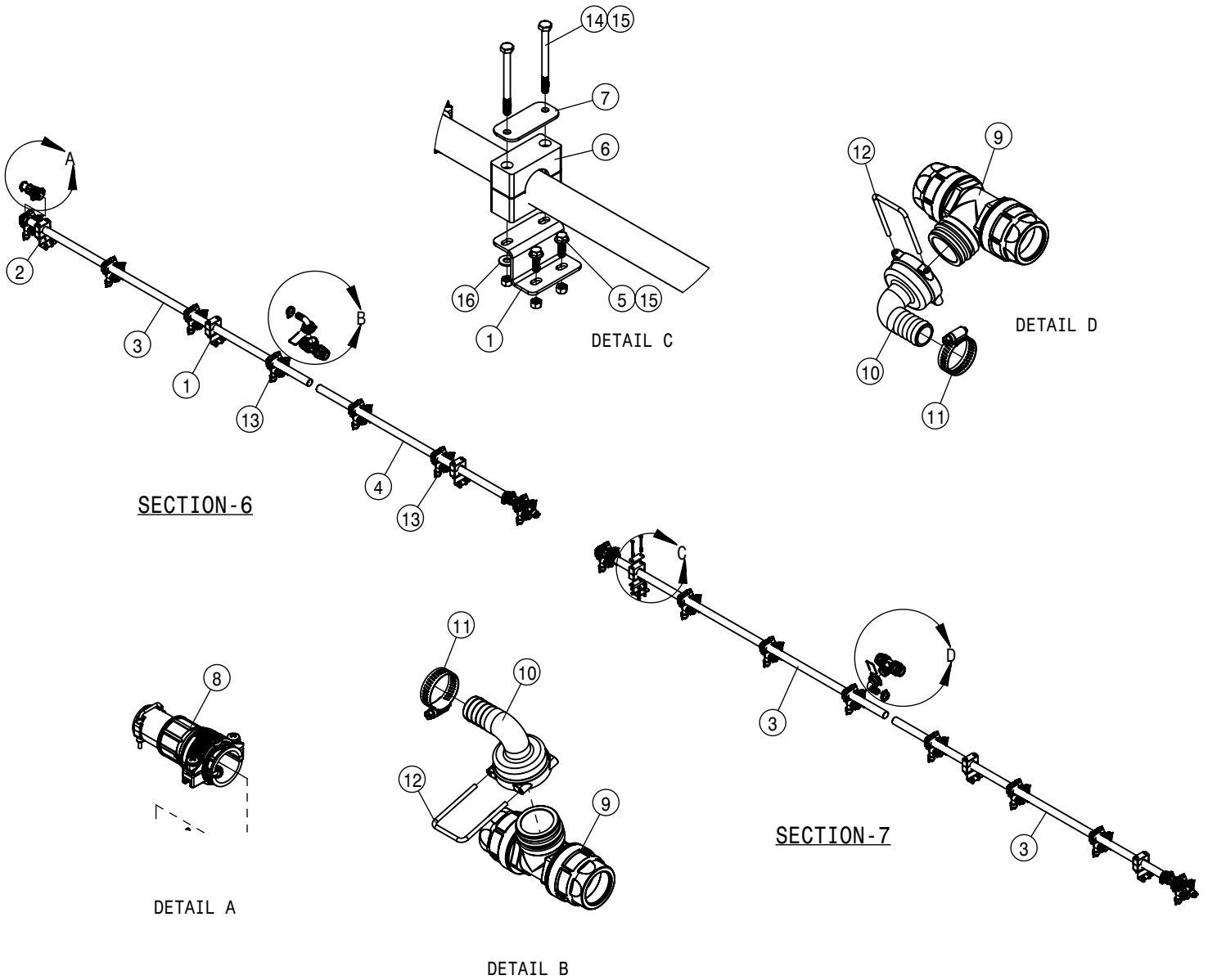
20" WET BOOM SPACING, SECTION 1-2 100' BOOM			
DET	QTY	P/N	DESCRIPTION
1	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
2	6	164716	TALL CLAMP MT BRKT, WET BOOM, STS
3	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
4	2	167234	20" WET BOOM TUBE, 8.13 LG
5	2	167238	20" WET BOOM TUBE, 48.13 LG
6	2	167263	20" WET BOOM TUBE, 28.13 LG
7	16	470118	1/4 UNC X 3/4 SER FLG BOLT
8	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
9	8	470376	COVER PLATE FOR 470375
10	6	500295	NOZZLE BODY END CAP
11	3	500296	EASY FIT TEE 1" PIPE
12	16	920000	1/4 SAE FLAT WASHER
13	2	500299	T5 TO 25MM HB 90
14	1	500300	T5 FEMALE TEE
15	2	500301	T5 MALE TO 25MM HB
16	32	914000	1/4UNC HEX STOVER NUT
17	4	520090	HOSECLAMP NO 16 STAINLESS
18	5	737738	FORK,D.3 DIST.42 (737731)
19	2	737763	O-RING, -221 EPDM
20	16	900010	1/4UNC X 3" HEX BOLT



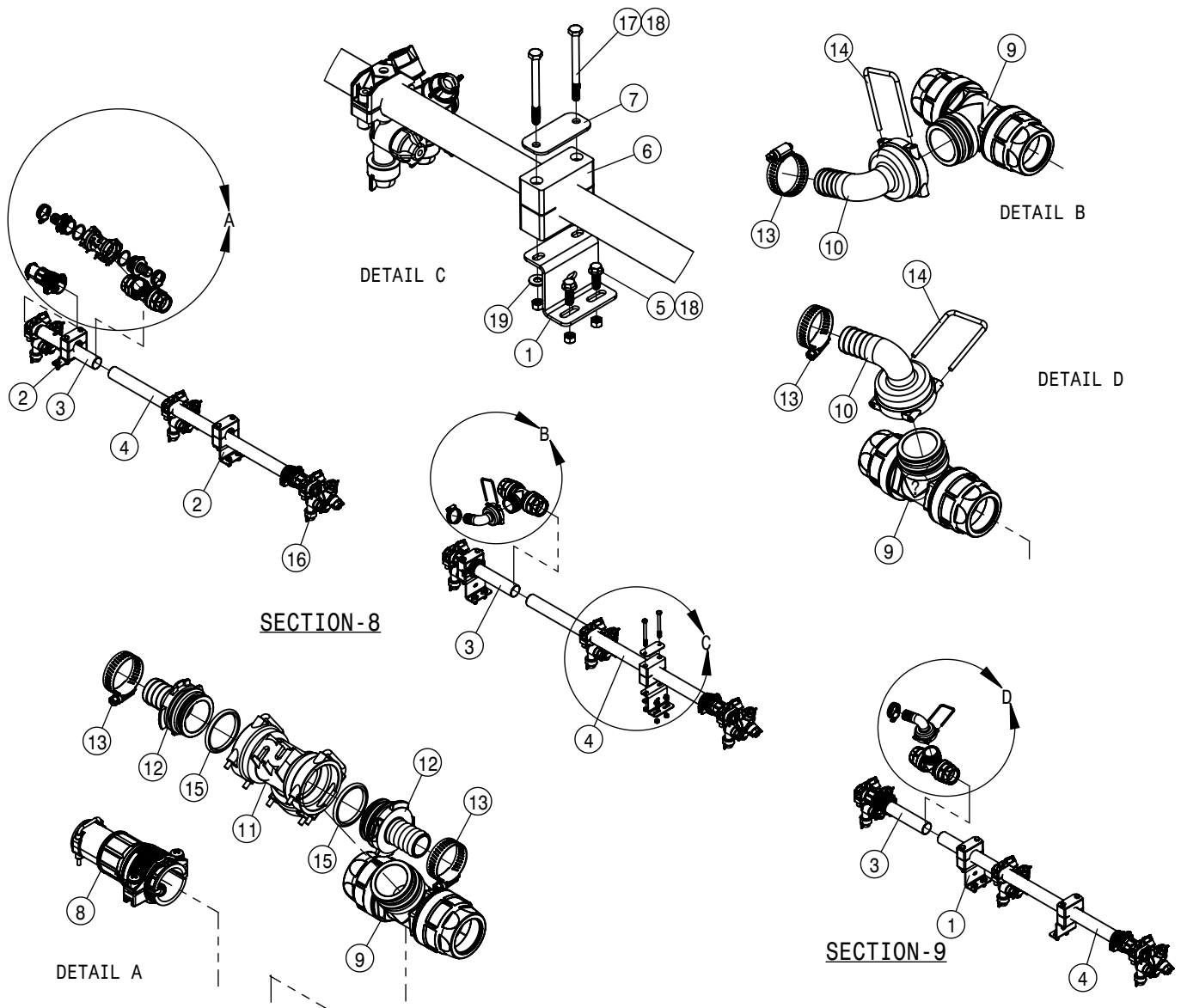
20" WET BOOM SPACING, SECTION 3-4 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	3	167230	20" WET BOOM TUBE, 68.13 LG
4	1	167238	20" WET BOOM TUBE, 48.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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	737925	QUICK TJET 5 + 1-TIP BODY 1"
14	12	900010	1/4UNC X 3" HEX BOLT
15	24	914000	1/4UNC HEX STOVER NUT
16	12	920000	1/4 SAE FLAT WASHER



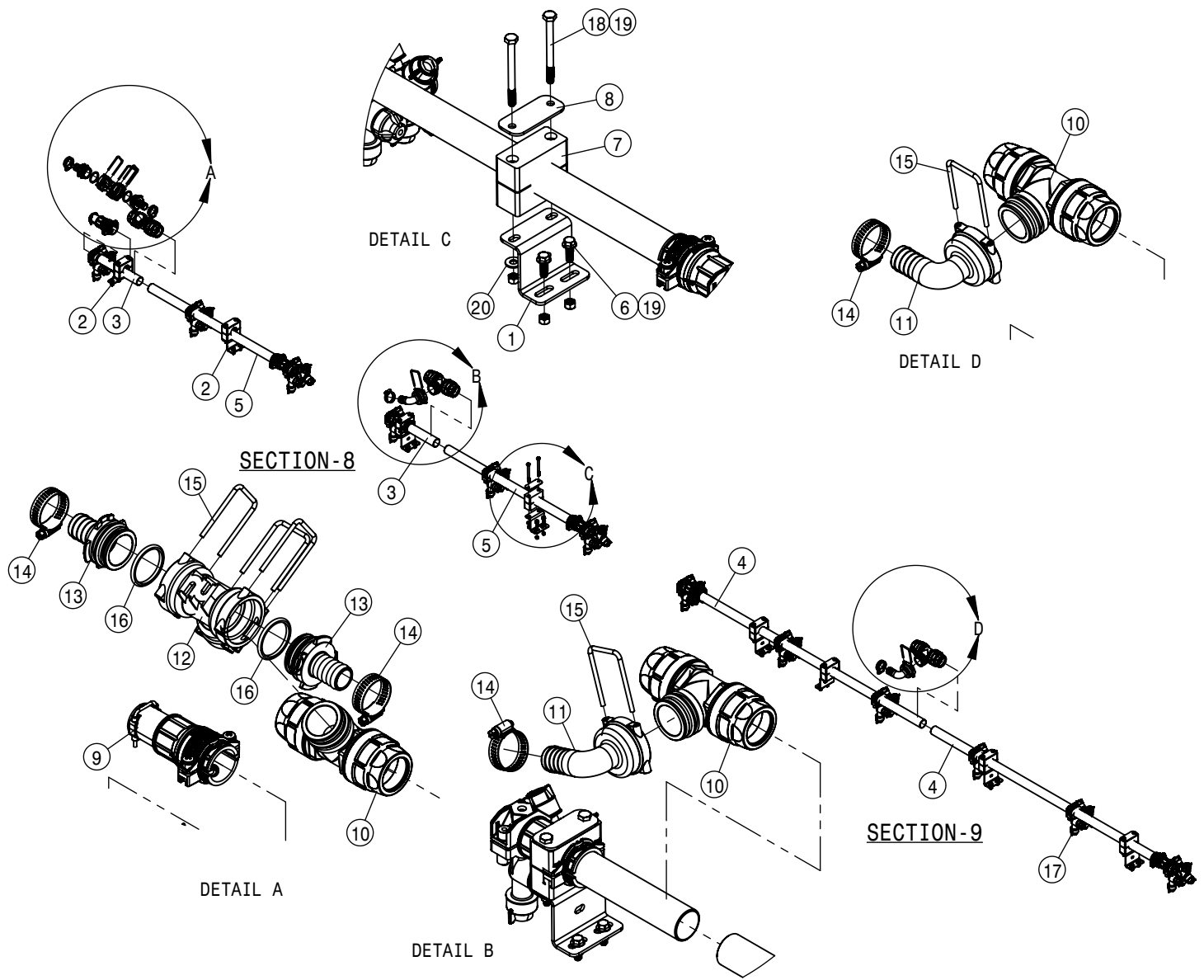
20" WET BOOM SPACING, SECTION-5 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	167237	20" WET BOOM TUBE, 65.66 LG
3	4	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	4	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500297	T5 TO 20MM HB 90
8	1	520080	HOSE CLAMP NO 10 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	7	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	8	900010	1/4UNC X 3" HEX BOLT
12	8	914000	1/4UNC HEX STOVER NUT
13	8	920000	1/4 SAE FLAT WASHER



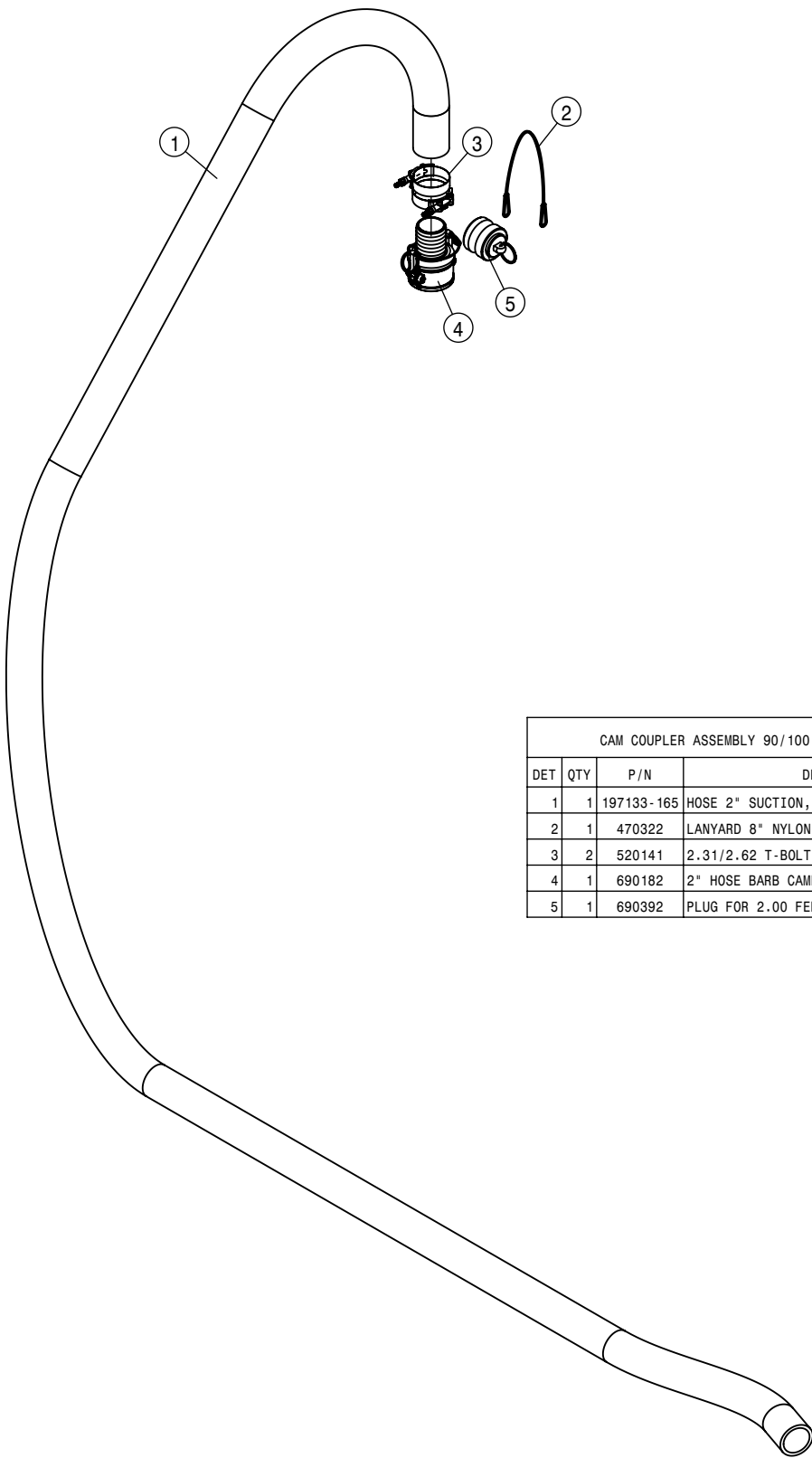
20" WET BOOM SPACING, SECTION 6-7 90/100 BOOM			
DET	QTY	P/N	DESCRIPTION
1	5	164859	CLAMP MT BRKT, WET BOOM, STS 04
2	1	164916	Z-BRKT, WET BOOM SECT 1, STS
3	3	167230	20" WET BOOM TUBE, 68.13 LG
4	1	167238	20" WET BOOM TUBE, 48.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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	737925	QUICK TJET 5 + 1-TIP BODY 1"
14	12	900010	1/4UNC X 3" HEX BOLT
15	24	914000	1/4UNC HEX STOVER NUT
16	12	920000	1/4 SAE FLAT WASHER



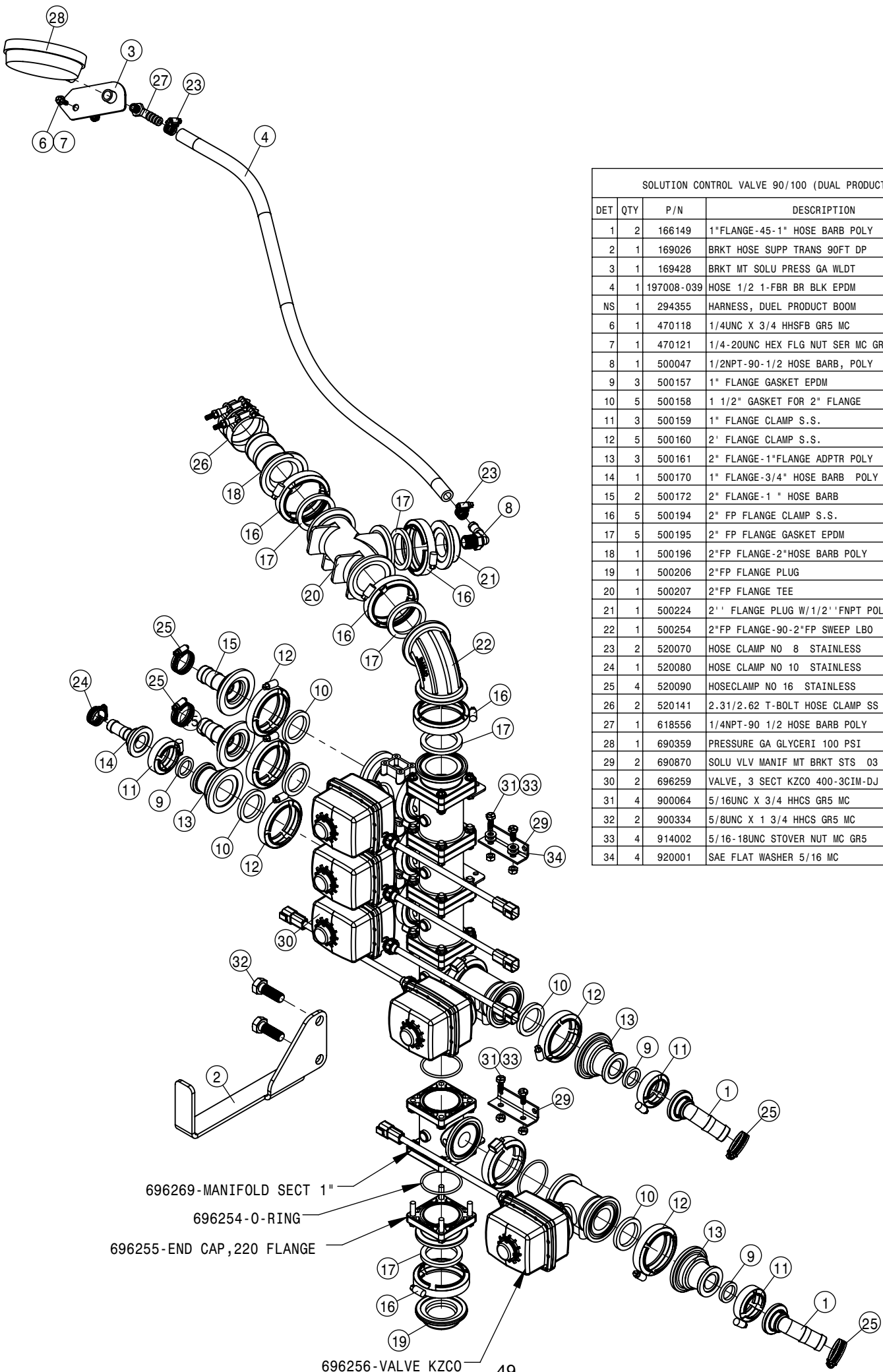
20" WET BOOM SPACING, SECTION 8-9 90' BOOM			
DET	QTY	P/N	DESCRIPTION
1	4	164716	TALL CLAMP MT BRKT, WET BOOM, STS
2	2	164859	CLAMP MT BRKT, WET BOOM, STS 04
3	3	167234	20" WET BOOM TUBE, 8.13 LG
4	3	167263	20" WET BOOM TUBE, 28.13 LG
5	12	470118	1/4 UNC X 3/4 SER FLG BOLT
6	6	470375	TUBE CLAMP BODY, 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, -221 EPDM
16	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
17	12	900010	1/4UNC X 3" HEX BOLT
18	24	914000	1/4UNC HEX STOVER NUT
19	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, -221 EPDM
17	15	737925	QUICK TJET 5 + 1-TIP BODY 1"
18	16	900010	1/4UNC X 3" HEX BOLT
19	32	914000	1/4UNC HEX STOVER NUT
20	16	920000	1/4 SAE FLAT WASHER



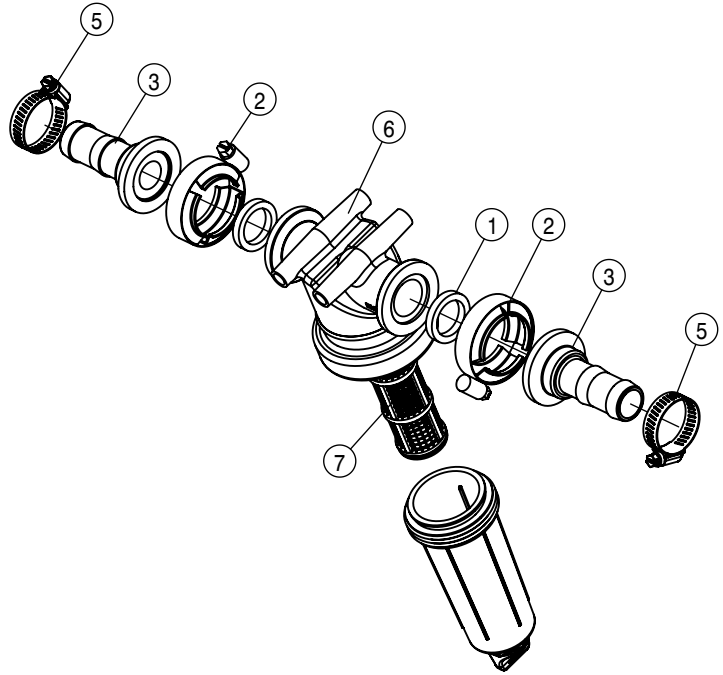
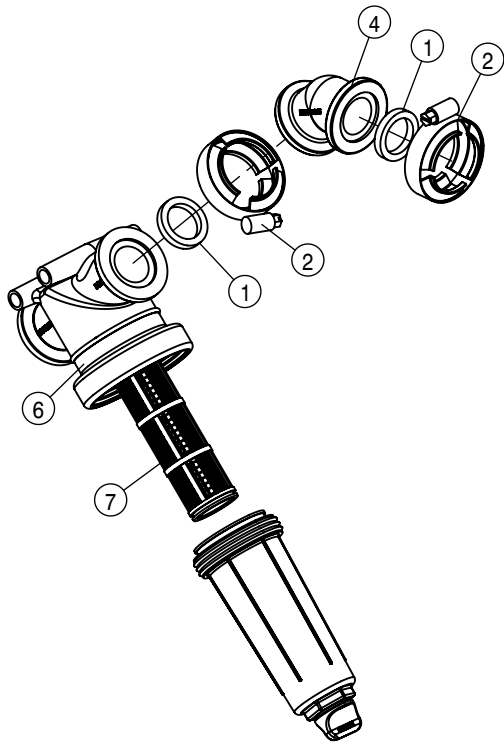
CAM COUPLER ASSEMBLY 90/100 (DUAL PRODUCTS)			
DET	QTY	P/N	DESCRIPTION
1	1	197133-165	HOSE 2" SUCTION, 2F-1W EPDM
2	1	470322	LANYARD 8" NYLON LOOP/LOOP
3	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
4	1	690182	2" HOSE BARB CAMLOCK W/ LOCK
5	1	690392	PLUG FOR 2.00 FEMALE COUPLER



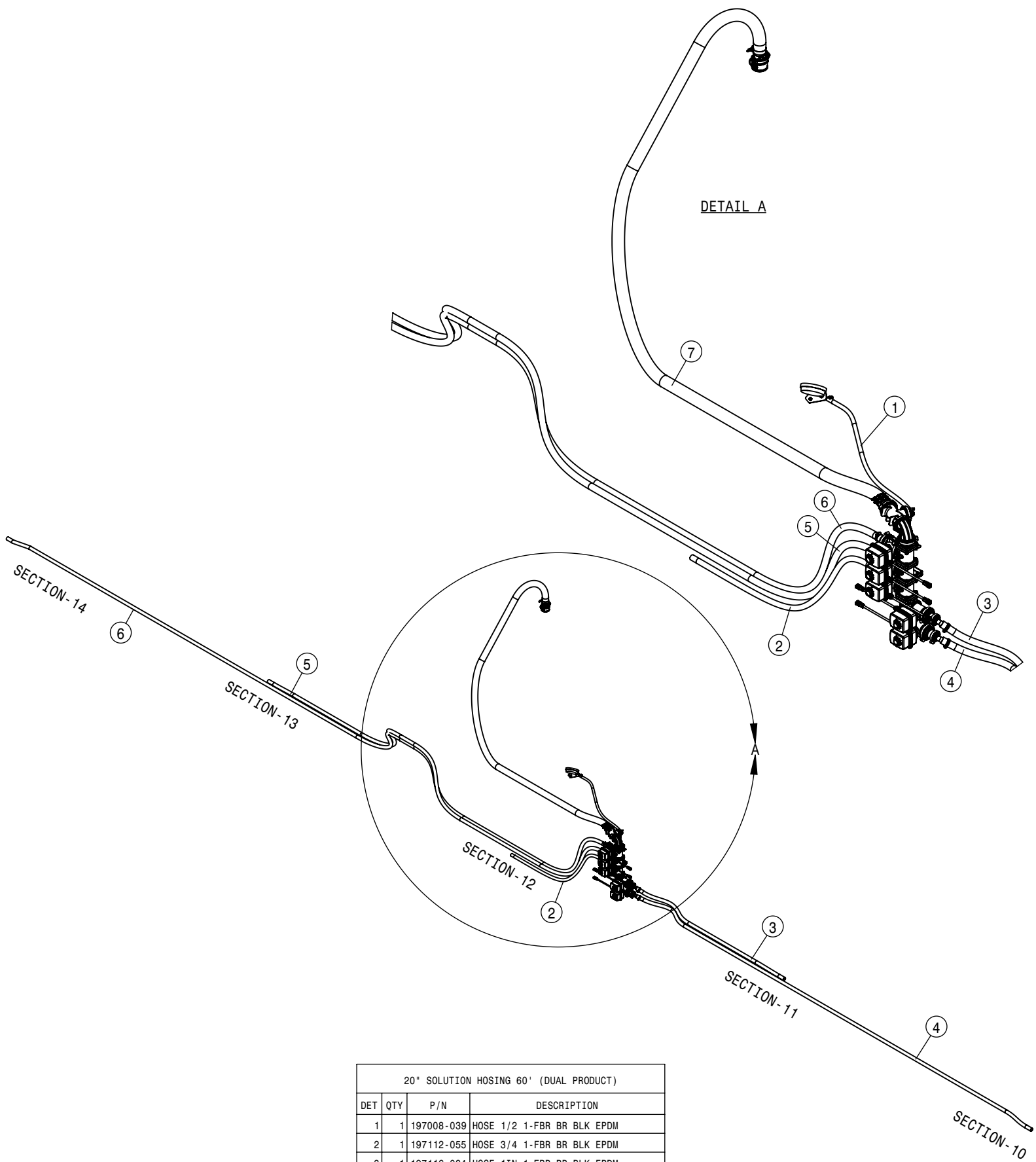
SOLUTION CONTROL VALVE 90/100 (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	2	166149	1" FLANGE-45-1" HOSE BARB POLY
2	1	169026	BRKT HOSE SUPP TRANS 90FT DP
3	1	169428	BRKT MT SOLU PRESS GA WLDT
4	1	197008-039	HOSE 1/2 1-FBR BR BLK EPDM
NS	1	294355	HARNES, DUEL PRODUCT BOOM
6	1	470118	1/4UNC X 3/4 HHSFB GR5 MC
7	1	470121	1/4-20UNC HEX FLG NUT SER MC GR5
8	1	500047	1/2NPT-90-1/2 HOSE BARB, POLY
9	3	500157	1" FLANGE GASKET EPDM
10	5	500158	1 1/2" GASKET FOR 2" FLANGE
11	3	500159	1" FLANGE CLAMP S.S.
12	5	500160	2" FLANGE CLAMP S.S.
13	3	500161	2" FLANGE-1" FLANGE ADPTR POLY
14	1	500170	1" FLANGE-3/4" HOSE BARB POLY
15	2	500172	2" FLANGE-1" HOSE BARB
16	5	500194	2" FP FLANGE CLAMP S.S.
17	5	500195	2" FP FLANGE GASKET EPDM
18	1	500196	2" FP FLANGE-2" HOSE BARB POLY
19	1	500206	2" FP FLANGE PLUG
20	1	500207	2" FP FLANGE TEE
21	1	500224	2" FLANGE PLUG W/1/2" FNPT POLY
22	1	500254	2" FP FLANGE-90-2" FP SWEEP LBO
23	2	520070	HOSE CLAMP NO 8 STAINLESS
24	1	520080	HOSE CLAMP NO 10 STAINLESS
25	4	520090	HOSECLAMP NO 16 STAINLESS
26	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
27	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
28	1	690359	PRESSURE GA GLYCERI 100 PSI
29	2	690870	SOLU VLV MANIF MT BRKT STS 03
30	2	696259	VALVE, 3 SECT KZCO 400-3CIM-DJ
31	4	900064	5/16UNC X 3/4 HHCS GR5 MC
32	2	900334	5/8UNC X 1 3/4 HHCS GR5 MC
33	4	914002	5/16-18UNC STOVER NUT MC GR5
34	4	920001	SAE FLAT WASHER 5/16 MC

696269-MANIFOLD SECT 1"
 696254-O-RING
 696255-END CAP,220 FLANGE

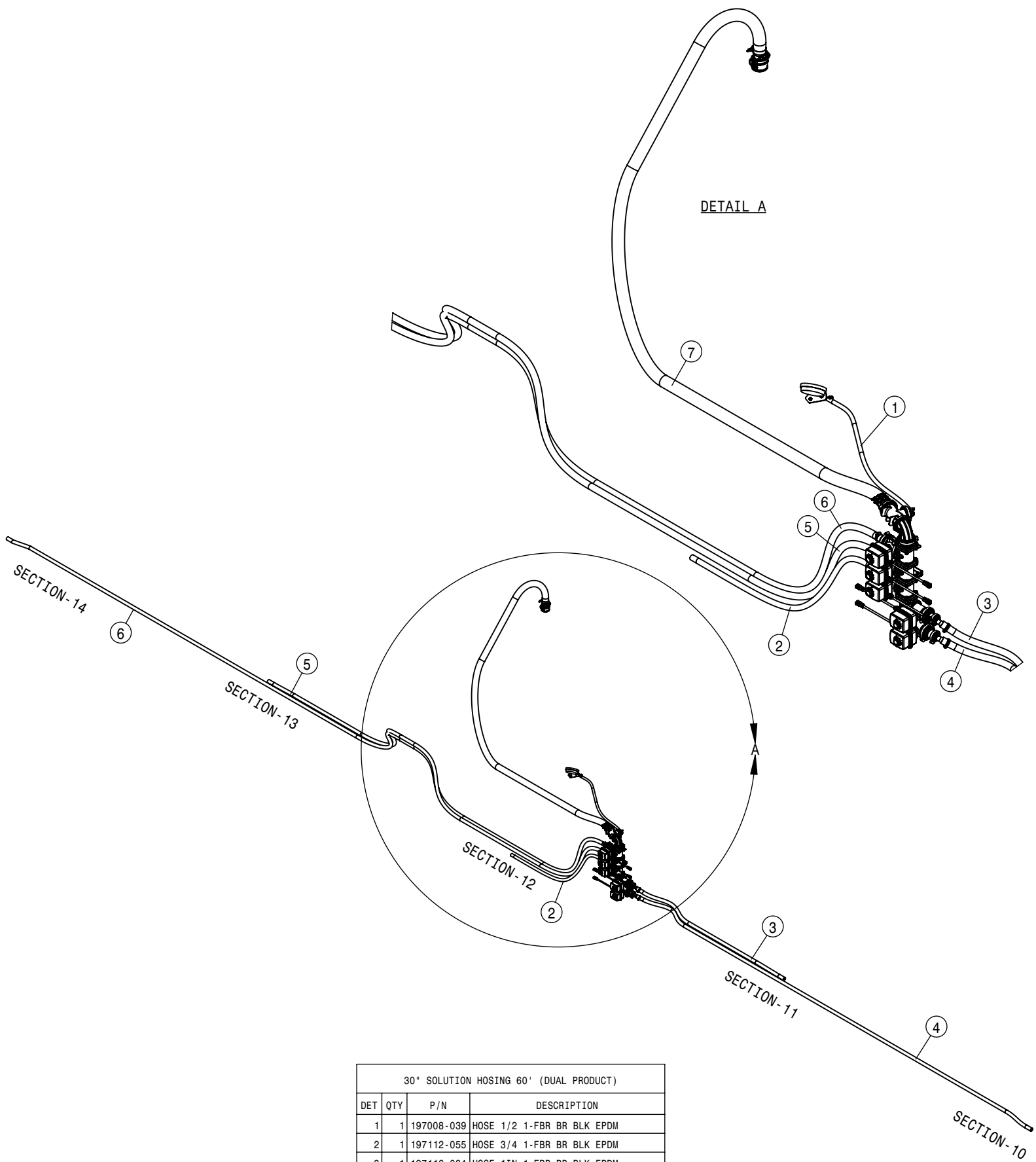
696256-VALVE KZCO 49



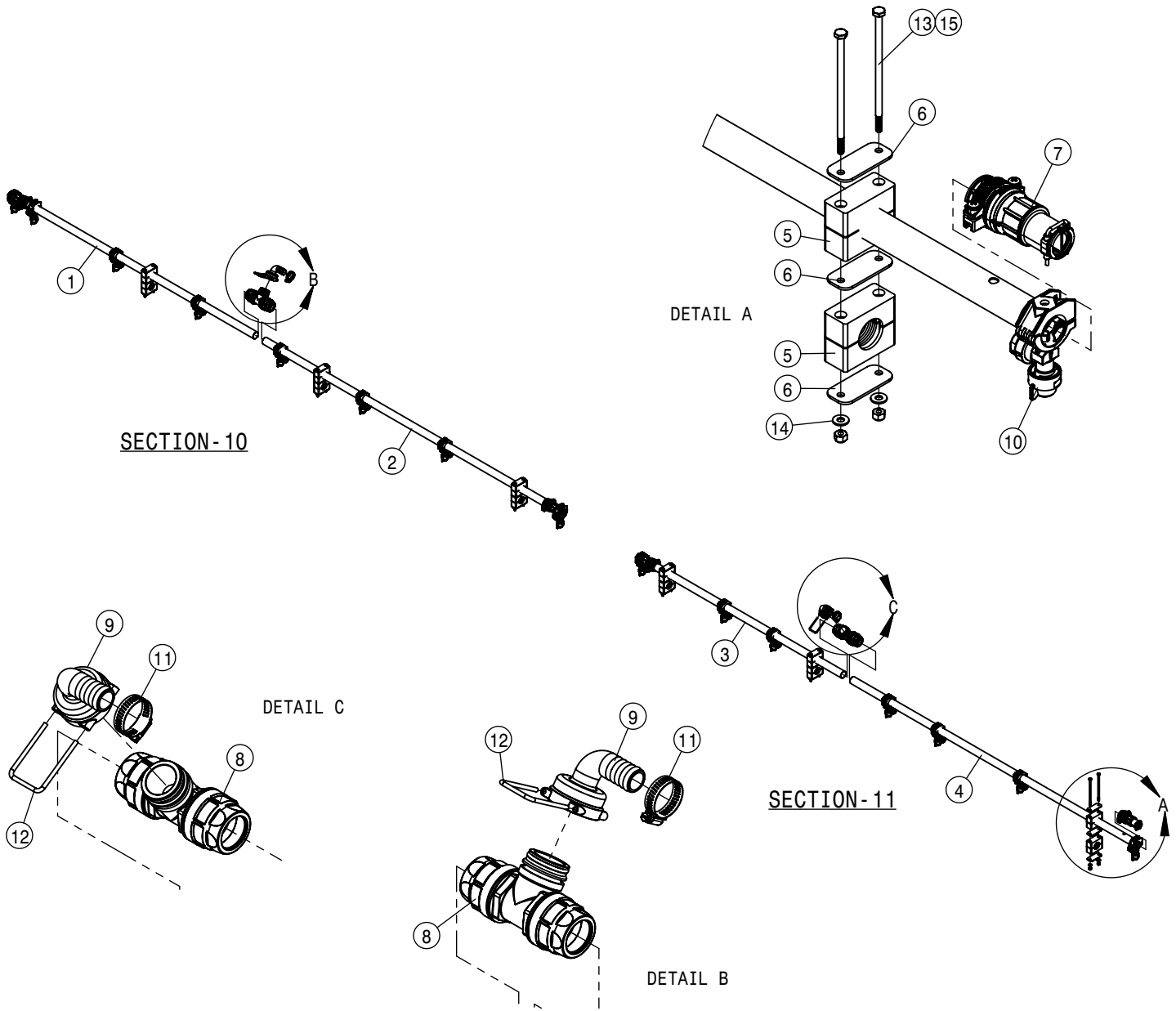
STRAINER ASSEMBLY 90/100 (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	4	500157	1" FLANGE GASKET EPDM
2	4	500159	1" FLANGE CLAMP S.S.
3	2	500171	1" FLANGE-1" HOSE BARB POLY
4	1	500414	1" FLANGE-45-1"FLANGE LBO POLY
5	2	520090	HOSECLAMP NO 16 STAINLESS
6	2	690660	LINE "T" STRAINER, 1" FLANGE W/O SCREEN
7	2	690661	50 MESH SCREEN FOR 690660



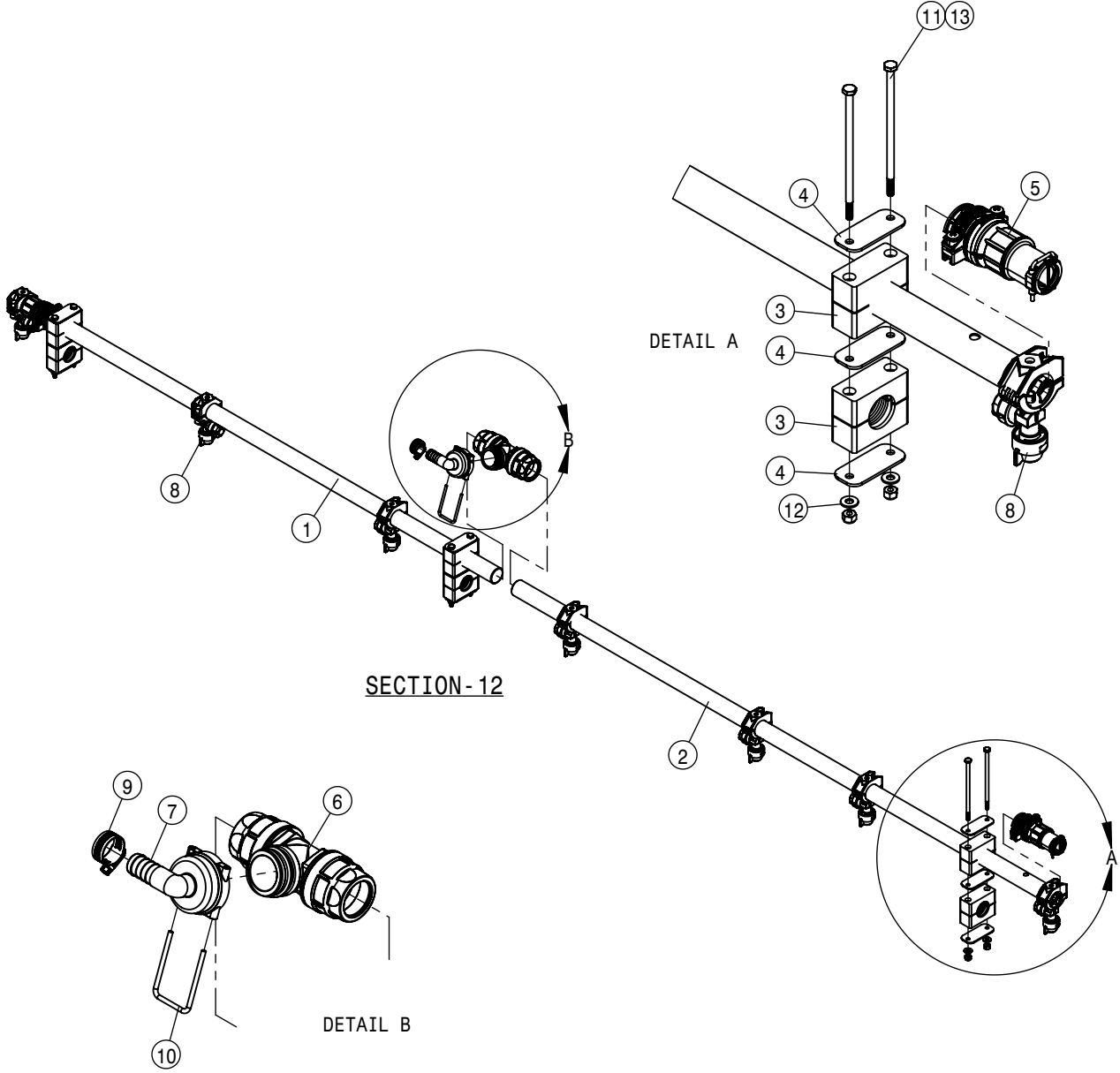
20" SOLUTION HOISING 60' (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	197008-039	HOSE 1/2 1-FBR BR BLK EPDM
2	1	197112-055	HOSE 3/4 1-FBR BR BLK EPDM
3	1	197116-084	HOSE 1IN 1-FBR BR BLK EPDM
4	1	197116-224	HOSE 1IN 1-FBR BR BLK EPDM
5	1	197116-239	HOSE 1IN 1-FBR BR BLK EPDM
6	1	197116-381	HOSE 1IN 1-FBR BR BLK EPDM
7	1	197133-165	HOSE 2" SUCTION, 2F-1W EPDM



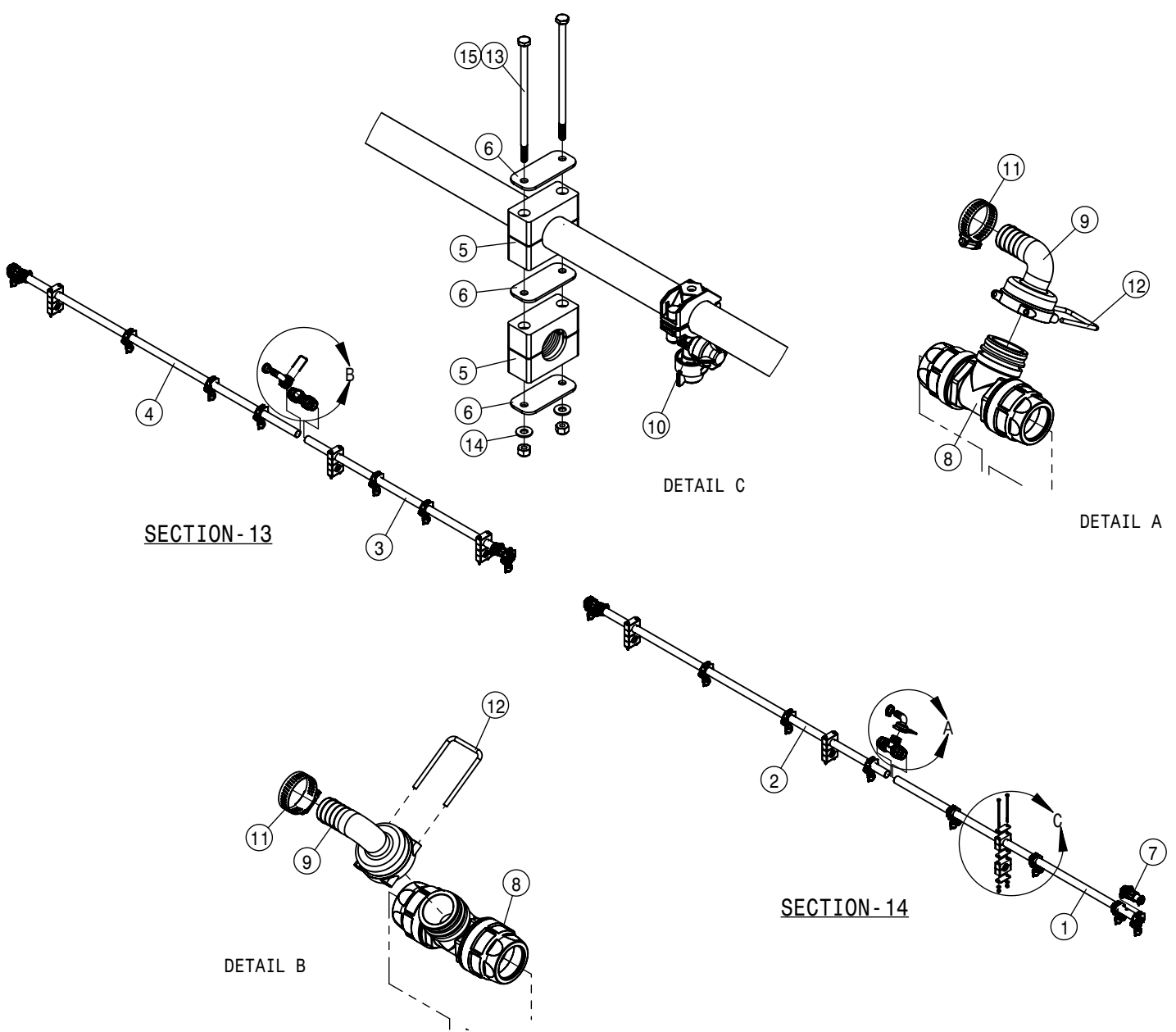
30° SOLUTION HOISING 60' (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	197008-039	HOSE 1/2 1-FBR BR BLK EPDM
2	1	197112-055	HOSE 3/4 1-FBR BR BLK EPDM
3	1	197116-084	HOSE 1IN 1-FBR BR BLK EPDM
4	1	197116-224	HOSE 1IN 1-FBR BR BLK EPDM
5	1	197116-239	HOSE 1IN 1-FBR BR BLK EPDM
6	1	197116-381	HOSE 1IN 1-FBR BR BLK EPDM
7	1	197133-165	HOSE 2" SUCTION, 2F-1W EPDM



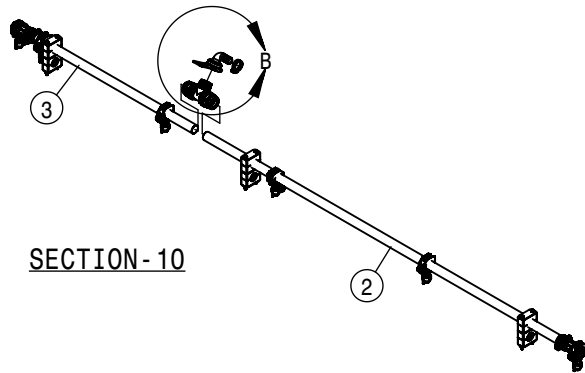
20" WET BOOM SPACING, SECTION 10-11 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	169155	20" WET BM TUBE, 57.92
2	1	169156	20" WET BM TUBE, 71.17 LG
3	1	169471	20" WET BM TUBE, 48.17 LG
4	1	169472	20" WET BM TUBE, 68.17 LG
5	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	18	470376	COVER PLATE FOR 470375
7	4	500295	NOZZLE BODY END CAP
8	2	500296	EASY FIT TEE 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	15	500363	QUICK TJET SINGLE BODY, 1"
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK, D.3 DIST.42 (737731)
13	12	900028	1/4UNC X 5 1/2 HHCS SS
14	12	910112	SAE FLAT WASHER 1/4 SS
15	12	910118	1/4-20UNC NYLOCK NUT SS



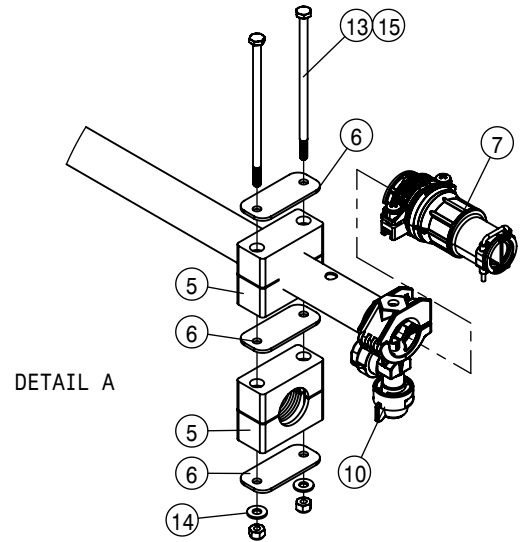
20" WET BOOM SPACING, SECTION-12 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	169473	20" WET BM TUBE, 57.17 LG
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	9	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500297	T5 TO 20MM HB 90
8	7	500363	QUICK TJET SINGLE BODY, 1"
9	1	520080	HOSE CLAMP NO 10 STAINLESS
10	1	737738	FORK,D.3 DIST.42 (737731)
11	6	900028	1/4UNC X 5 1/2 HHCS SS
12	6	910112	SAE FLAT WASHER 1/4 SS
13	6	910118	1/4-20UNC NYLOCK NUT SS



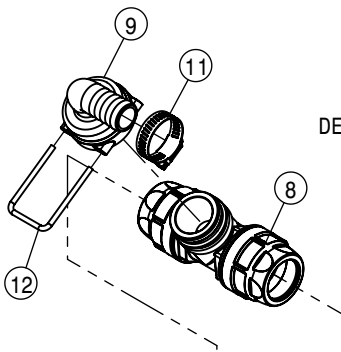
20" WET BOOM SPACING, SECTION 13-14 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	169155	20" WET BM TUBE, 57.92
2	1	169156	20" WET BM TUBE, 71.17 LG
3	1	169471	20" WET BM TUBE, 48.17 LG
4	1	169472	20" WET BM TUBE, 68.17 LG
5	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	18	470376	COVER PLATE FOR 470375
7	4	500295	NOZZLE BODY END CAP
8	2	500296	EASY FIT TEE 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	15	500363	QUICK TJET SINGLE BODY, 1"
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK, D.3 DIST.42 (737731)
13	12	900028	1/4UNC X 5 1/2 HHCS SS
14	12	910112	SAE FLAT WASHER 1/4 SS
15	12	910118	1/4-20UNC NYLOCK NUT SS



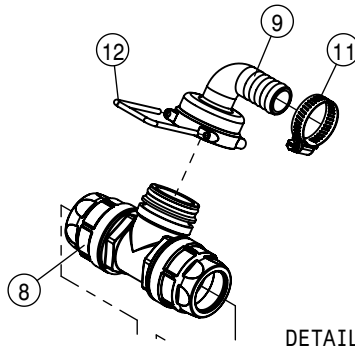
SECTION-10



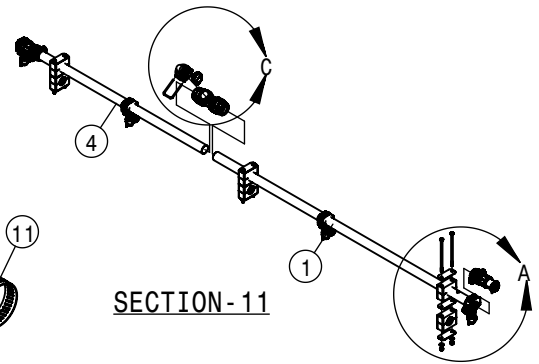
DETAIL A



DETAIL C

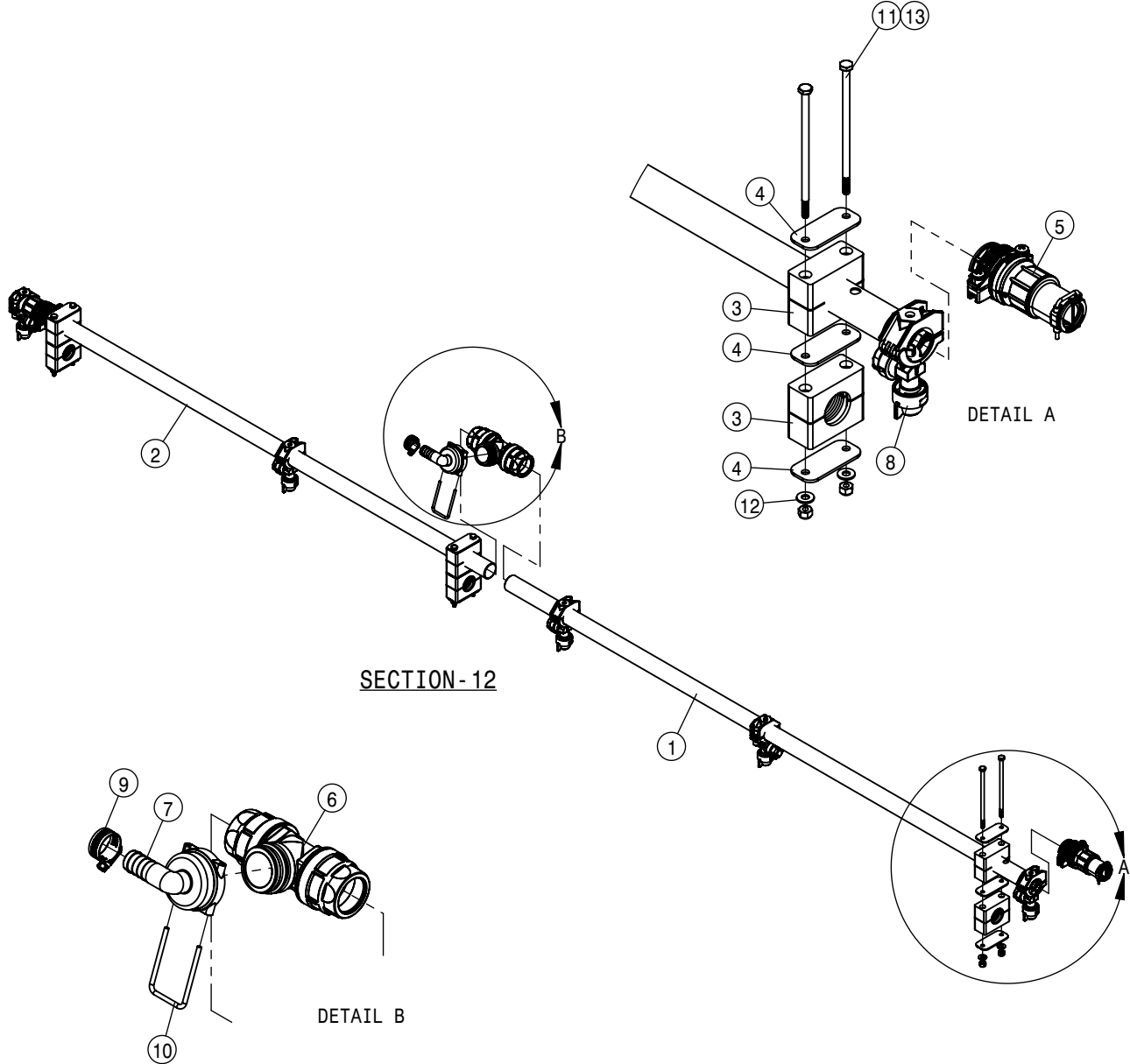


DETAIL B

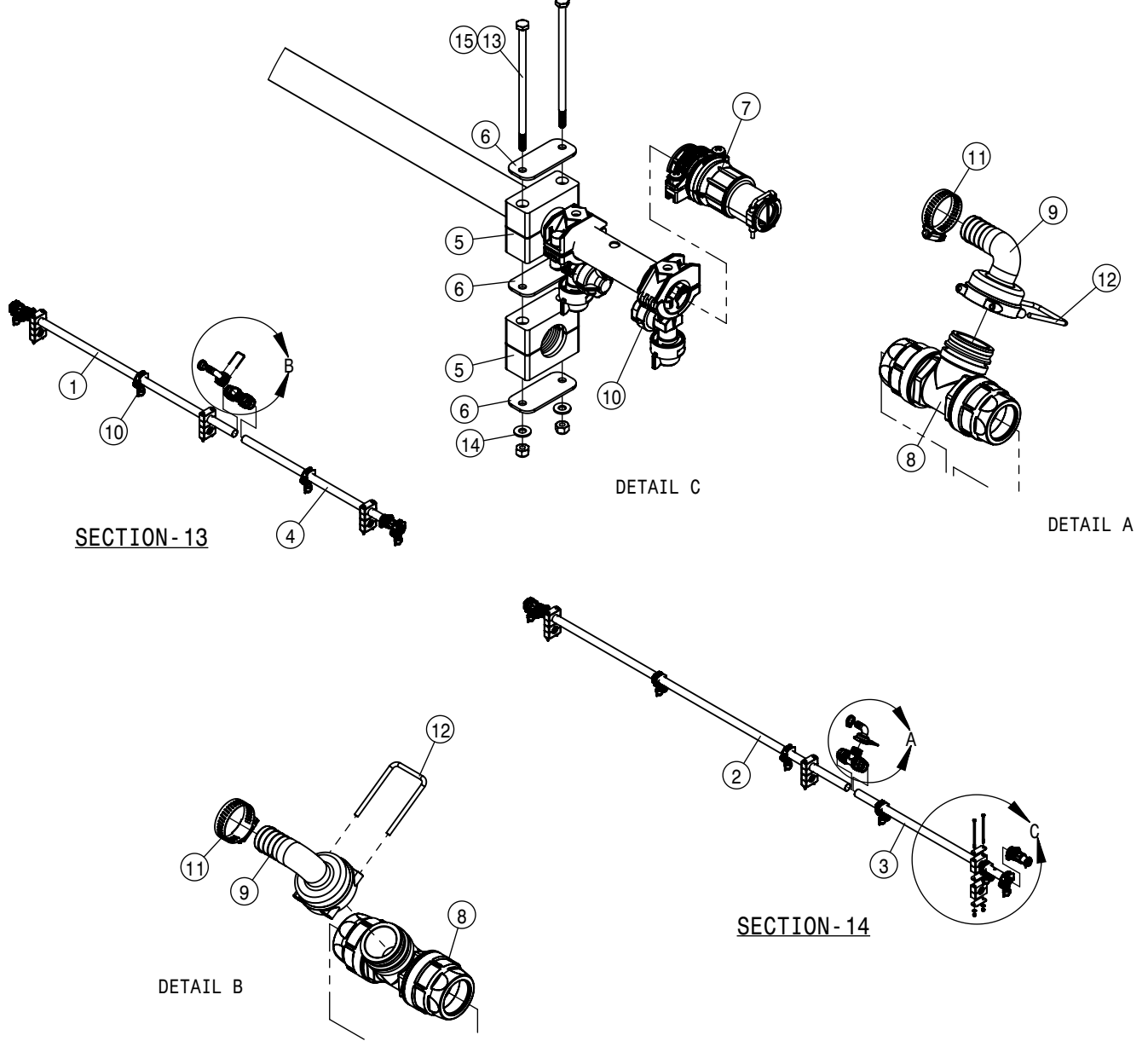


SECTION-11

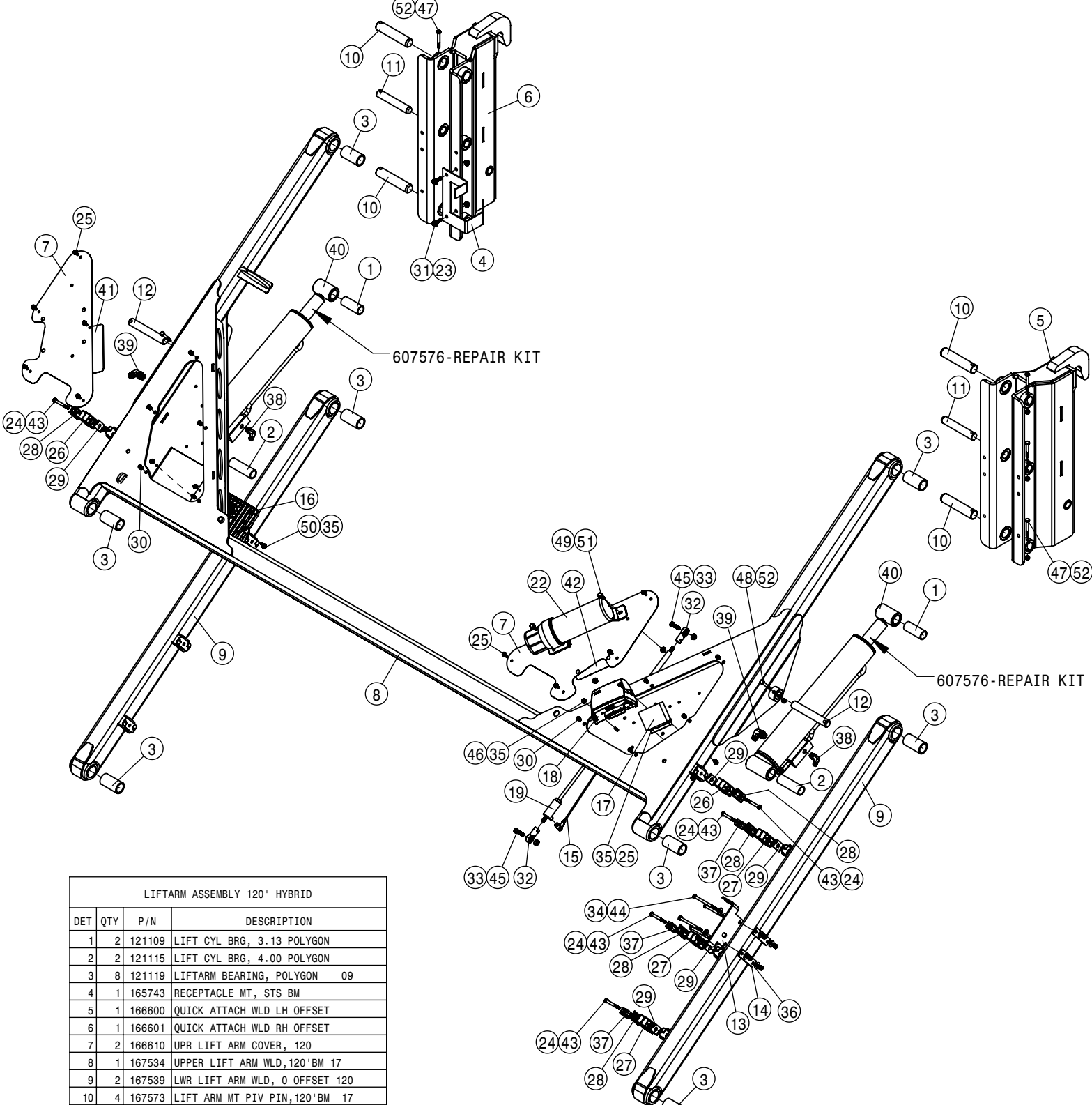
30" WET BOOM SPACING, SECTION 10-11 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167759	30" WET BM TUBE, 50.17 LG
2	1	167761	30" WET BOOM TUBE, 73.17 LG
3	1	167762	30" WET BM TUBE, 34.17 LG
4	1	167763	30" WET BM TUBE, 35.17 LG
5	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	18	470376	COVER PLATE FOR 470375
7	4	500295	NOZZLE BODY END CAP
8	2	500296	EASY FIT TEE 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	10	500363	QUICK TJET SINGLE BODY, 1"
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK, D.3 DIST.42 (737731)
13	12	900028	1/4UNC X 5 1/2 HHCS SS
14	12	910112	SAE FLAT WASHER 1/4 SS
15	12	910118	1/4-20UNC NYLOCK NUT SS



30" WET BOOM SPACING, SECTION-12 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167758	30" WET BM TUBE, 56.16 LG
2	1	167759	30" WET BM TUBE, 50.17 LG
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	9	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	5	500363	QUICK TJET SINGLE BODY, 1"
9	1	520080	HOSE CLAMP NO 10 STAINLESS
10	1	737738	FORK,D.3 DIST.42 (737731)
11	6	900028	1/4UNC X 5 1/2 HHCS SS
12	6	910112	SAE FLAT WASHER 1/4 SS
13	6	910118	1/4-20UNC NYLOCK NUT SS



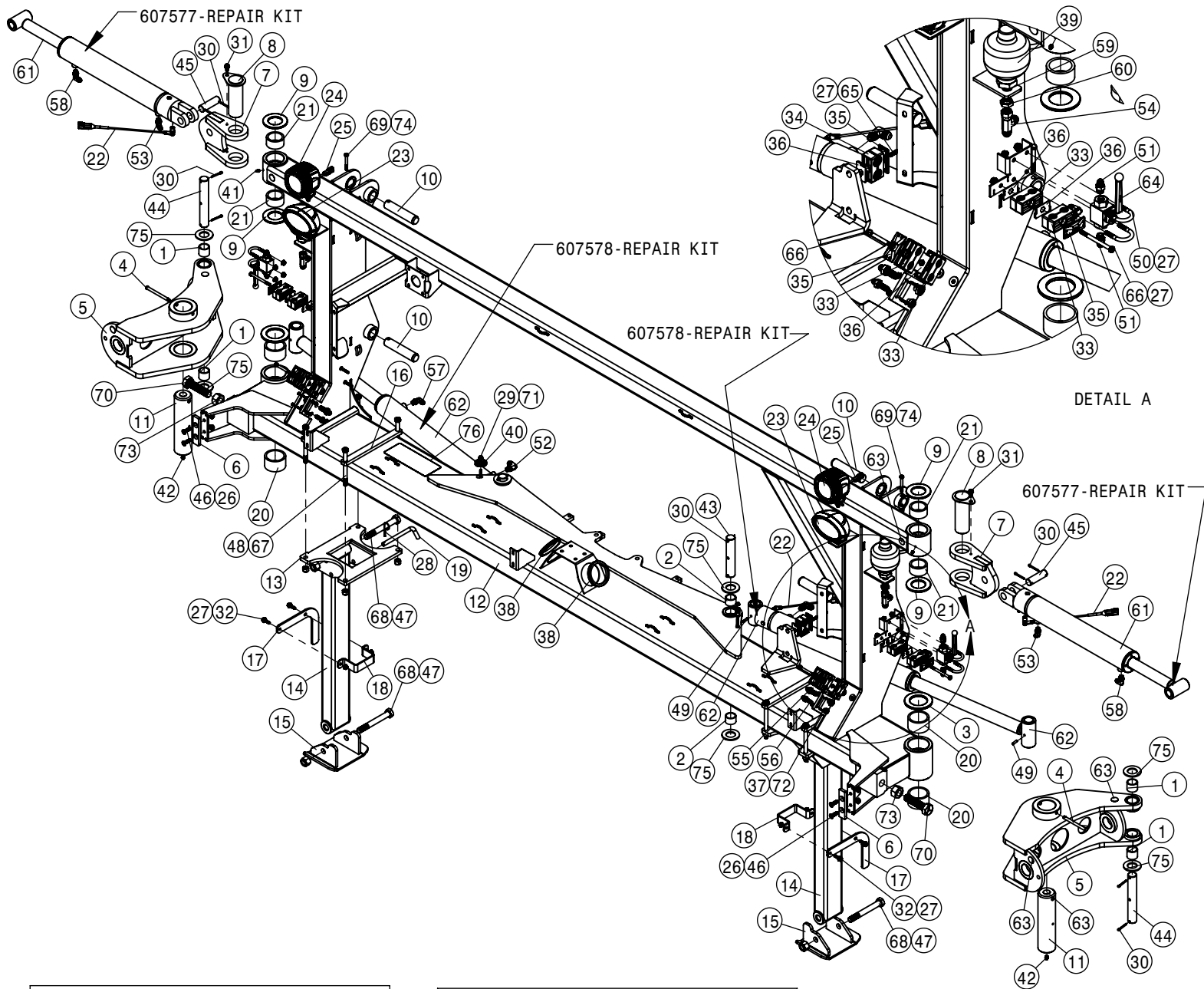
30° WET BOOM SPACING, SECTION 13-14 60' BOOM (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167759	30° WET BM TUBE, 50.17 LG
2	1	167761	30° WET BOOM TUBE, 73.17 LG
3	1	167762	30° WET BM TUBE, 34.17 LG
4	1	167763	30° WET BM TUBE, 35.17 LG
5	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
6	18	470376	COVER PLATE FOR 470375
7	4	500295	NOZZLE BODY END CAP
8	2	500296	EASY FIT TEE 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	10	500363	QUICK TJET SINGLE BODY, 1"
11	2	520090	HOSECLAMP NO 16 STAINLESS
12	2	737738	FORK, D.3 DIST.42 (737731)
13	12	900028	1/4UNC X 5 1/2 HHCS SS
14	12	910112	SAE FLAT WASHER 1/4 SS
15	12	910118	1/4-20UNC NYLOCK NUT SS



LIFTARM ASSEMBLY 120' HYBRID			
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	1	165743	RECEPTACLE MT, STS BM
5	1	166600	QUICK ATTACH WLD LH OFFSET
6	1	166601	QUICK ATTACH WLD RH OFFSET
7	2	166610	UPR LIFT ARM COVER, 120
8	1	167534	UPPER LIFT ARM WLD, 120' BM 17
9	2	167539	LWR LIFT ARM WLD, 0 OFFSET 120
10	4	167573	LIFT ARM MT PIV PIN, 120' BM 17
11	2	167574	LIFT ARM MT PIVOT PIN 17
12	2	167575	LIFT CYL PIN, BARREL PIN, STS
13	1	167830	MULTICOUPLER LIFTARM MT
14	2	167831	MULTICOUPLER MT STRAP
15	1	291994	SENSOR HARNESS FOR AWS
16	1	292005	IQAN MC31
17	1	292027	18 WAY FUSE HOLDER ASSY
18	1	292086	IQAN-XA2 MODULE->611
19	1	292706	LINEAR POSITION SENSOR, 300MM
NS	1	294304	LH MAIN BOOM HARNESS 120' '17
NS	1	294305	RH MAIN HARNESS 120' BOOM STS
22	1	344017	MANUAL CANISTER W/NEOPREN SEAL
23	2	470087	3/8-16UNC HEX FLG NUT SER MC GR5
24	5	470113	5/16-18UNC HEX FLG NUT SER MC GR5
25	12	470118	1/4UNC X 3/4 HHSFB GR5 MC
26	2	470274	TUBE CLAMP BODY, .750-.750
27	3	470275	TUBE CLAMP BODY, 1.00-1.000

LIFTARM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
28	5	470276	CLAMP COVER PLATE, SNGL, 2.55LG
29	5	470281	STACK BOLT SAFETY LOCK PLATE
30	10	470383	1/4-20 NUTSERT .165-.260 STL
31	2	470460	3/8UNC X 1 HHSFB GR5 MC
32	2	470628	BALL END, 9.9MM BORE X 10MM THD
33	2	472029	3/8UNC SERR FLANGE NUT SS
34	4	473001	5/16-18UNC NYLOCK NUT MC GR5
35	6	473832	1/4-20UNC HEX FLG NUT SER SS
36	8	483040	USS FLAT WASHER 5/16 MC
37	3	520108	CUSH HOSE CLAMP, #20, 1 1/4 X 3/4W
38	2	618119	9/16MJIC-90-9/16MOR LBO
39	2	618241	3/4MJIC-90-3/4MOR LBO
40	2	621669	HYD CYL, 3.25X16.00X1.63

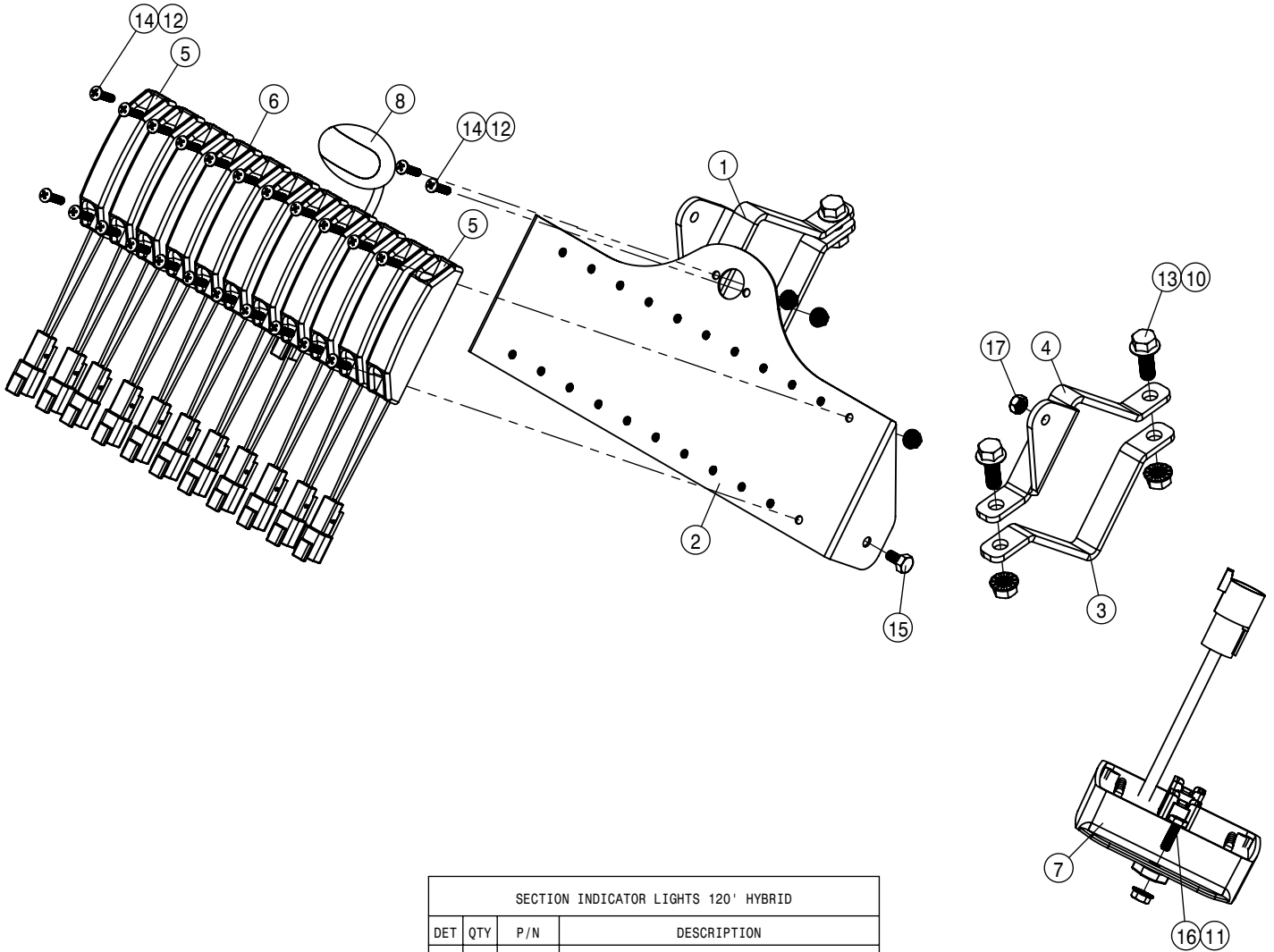
LIFTARM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
41	1	650412	RH BOOM DECAL 120'A'12
42	1	650413	LH BOOM DECAL 120'A'12
43	5	900070	5/16UNC X 2 1/2 HHCS GR5 MC
44	4	900076	5/16UNC X 4 HHCS GR5 MC
45	2	900130	3/8UNC X 1 1/4 HEX BOLT
46	2	900449	1/4UNC X 1 HHCS SS
47	4	900494	5/16UNC X 2 1/2 HHCS SS
48	4	900503	5/16UNC X 2 1/4 HHCS SS
49	2	910119	5/16-18UNC HEX FLG NUT SER SS
50	2	910124	1/4UNC X 1 HHSFB SS
51	2	910126	5/16UNC X 1 HHSFB SS
52	8	910132	5/16-18UNC NYLOCK NUT SS



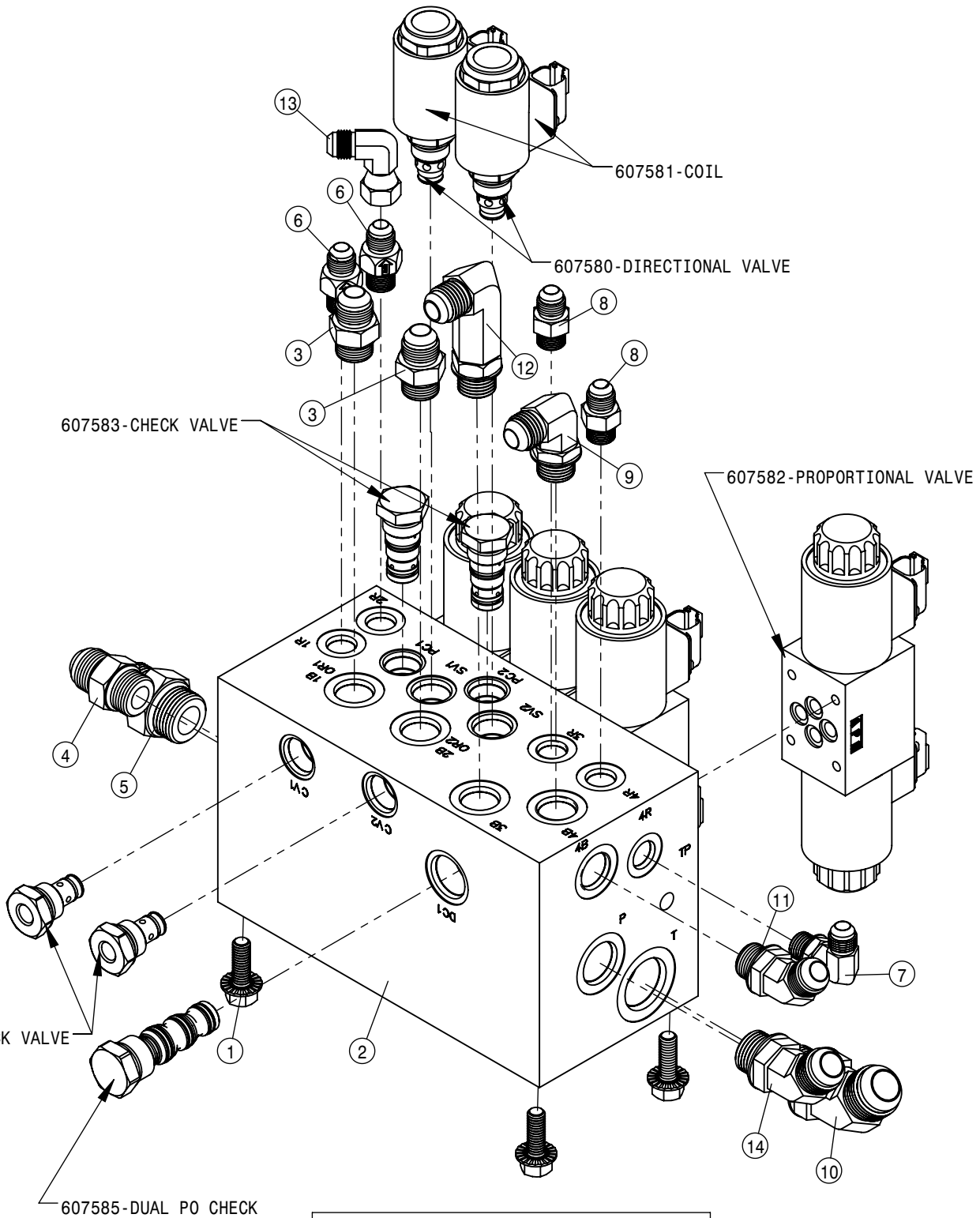
TRANSOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	4	121129	BEARING, 1.25-1.51-1.25 POLYGON
2	4	121130	BEARING, 1.25-1.50-1.00 POLYGON
3	2	167030	THRUST WASH PIVOT TUBE, 120' ALUM
4	2	167292	CLEVIS PIN-LOCKING-3/8X4.06
5	2	167299	TRANSOM PIV WLD HYBRID
6	2	167464	BREAKAWAY BUMP PAD
7	2	167530	TRANSOM LEVEL WLD STS
8	2	167564	PIN 2.0 OD X 5.75
9	4	167567	THRUST WASHER
10	4	167573	LIFT ARM MT PIV PIN, 120' BM 17
11	2	167825	PIN, 2.50 OD, 9.88 LG, DRILLED
12	1	167862	TRANSOM FIXED, HYBRID W/DECAL
13	2	169201	HYBRID BM STAND MT WLD
14	2	169206	HYBRID BM STAND LEG WLD
15	2	169211	HYBRID BM SAND FT WLD
16	4	169214	HYBRID BM STAND MNT PLATE
17	2	169481	HYBRID BM STAND HANDLE
18	2	169482	HYBRID BM STAND HANDLE BRKT
19	2	169484	CLEVIS PIN - .5 DIA X 5.00 LG
20	4	169494	BRG POLYGON MRP 3 X 2.5 X 1.75
21	4	169495	BRG PLOYGON MRP 2.5 X 2 X 1.25
22	4	291994	SENSOR HARNESS FOR AWS
23	2	292614	WORK LIGHT, HALOGEN FLOOD '14
24	2	292618	WORKLIGHT-TYRI LED FLOOD
25	2	294299	TYRI JUMPER HARNESS
26	4	470087	3/8-16UNC HEX FLG NUT SER MC GR5

TRANSOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
27	15	470113	5/16-18UNC HEX FLG NUT SER MC GR5
28	2	470120	HAIR PIN 3/32 DIA WIRE
29	2	470121	1/4-20UNC HEX FLG NUT SER MC GR5
30	12	470162	COTTER PIN 3/16 X 1 1/2 ZN
31	2	470233	5/16UNC X 3/4 HHSFB GR5 MC
32	4	470234	5/16UNC X 1 HHSFB GR5 MC
33	8	470274	TUBE CLAMP BODY, .750-.750
34	1	470275	TUBE CLAMP BODY, 1.00-1.000
35	5	470276	CLAMP COVER PLATE, SNGL, 2.55LG
36	7	470281	STACK BOLT SAFETY LOCK PLATE
37	8	470463	#8-32UNC HEX FLG NUT SER MC GR5
38	2	470691	GROMMET, 3.000ID .125GW 3.25GD
39	2	470701	ACCUMULATOR, 30CI 1,812 PSI
40	2	470888	TWIN #4 CLAMP
41	2	471005	GREASE ZERK, 1/4-28 X 1/2
42	2	471021	GREASE ZERK 1/8 NPT STRAIGHT
43	2	472203	CLEVIS PIN HL 1.25 DIA X 6.08
44	2	472204	CLEVIS PIN HL 1.25 DIA X 7.58
45	2	472219	CLEVIS PIN HL 1.0 DIA X 2.625
46	4	472286	3/8UNC X 1-1/4 FLTHD SOC CAP SCR
47	4	473005	3/4-10UNC NYLOCK NUT MC GR5
48	8	473007	1/2-13UNC NYLOCK NUT MC GR5
49	4	473850	ROLL PIN, 1/4 X 1 ZN
50	4	473911	5/16UNC-1.31ID-2.00 U-BOLT ZINC
51	4	618126	9/16MJIC-9/16MOR ADPTR
52	2	618249	3/4MJIC-90-9/16MOR LBO

TRANSOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
53	2	618425	9/16MJIC-45-9/16MOR LBO
54	2	618451	3/4FJIC SW RUN TEE-3/4MJIC
55	2	618510	9/16MJIC-9/16MJIC BLKHD UNION
56	2	618511	7/16MJIC-7/16MJIC BLKHD UNION
57	2	618689	9/16MOR-90-9/16MJ .042 CHK VLV
58	2	618739	9/16MJIC-90-9/16MOR .065 CHK
59	2	618743	3/4MOR-3/4MJIC BLKHD, .040 ORF
60	2	618744	3/4 THD BLKHD LOCK NUT
61	2	620106	HYD CYL, 2.75 X 15.25 X 1.50
62	2	620150	HYD CYL, 2.50" X 20.00" X 1.75
63	8	650205	DECAL, GREASE WEEKLY
64	2	696131	HIGH PRESSURE BALL VALVE
65	1	900070	5/16UNC X 2 1/2 HHCS GR5 MC
66	4	900075	5/16UNC X 3 3/4 HHCS GR5 MC
67	8	900278	1/2UNC X 6 HHCS GR5 MC
68	4	900414	3/4UNC X 6 HHCS GR5 MC
69	4	900494	5/16UNC X 2 1/2 HHCS SS
70	2	900536	1UNC X 4 HHCS GR5 MC FT
71	2	901011	1/4UNC X 1 3/4 CARR BOLT
72	8	903850	#8-32 UNC X 3/4 PHMS PH BZ
73	2	910017	1-8UNC HEX NUT MC GR5
74	4	910132	5/16-18UNC NYLOCK NUT SS
75	8	920009	SAE FLAT WASHER 1 1/4 MC
76	1	HXE28534	LABEL, HYDRAULIC ENGLISH

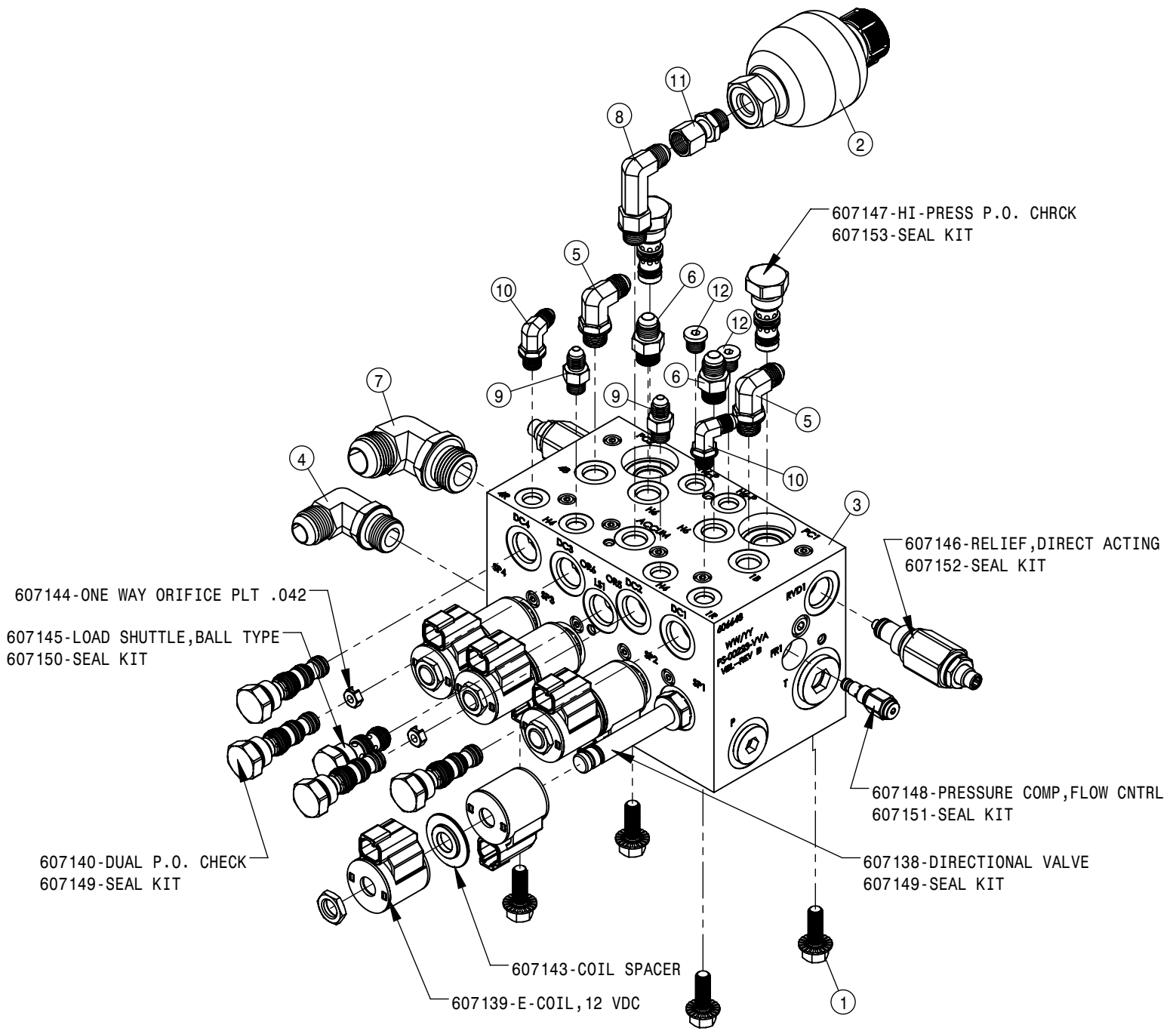


SECTION INDICATOR LIGHTS 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	165993	RECEPT MTG BRKT BENT RGT
2	1	165994	BOOM INDICATOR LGT MT
3	2	165995	RECEPT MTG BRKT
4	1	165996	RECEPT MTG BRKT BENT LFT
5	2	291325	AMBER LAMP, 4" DT DEUTSCH
6	9	291326	RED LAMP, 4" DT DEUTSCH
7	1	292030	CAN POWER OUTLET MODULE
8	1	293817	MASTER SPRAY LIGHT, STS 05
NS	1	294360	HARNES, SEC LIGHT EDI
10	4	470087	3/8UNC HEX SERR FLANGE NUT
11	3	470121	1/4-20UNC HEX FLG NUT SER MC GR5
12	24	470175	10-32 SERR FLANGE NUT
13	4	470460	3/8 X 1" SERR FLG BOLT
14	24	472235	10-32 X 3/4 PHIL HD MACH SCR
15	2	900000	1/4UNC X 1/2 HEX BOLT
16	3	900002	1/4UNC X 3/4 HHCS GR5 MC
17	2	910000	1/4UNC HEX NUT

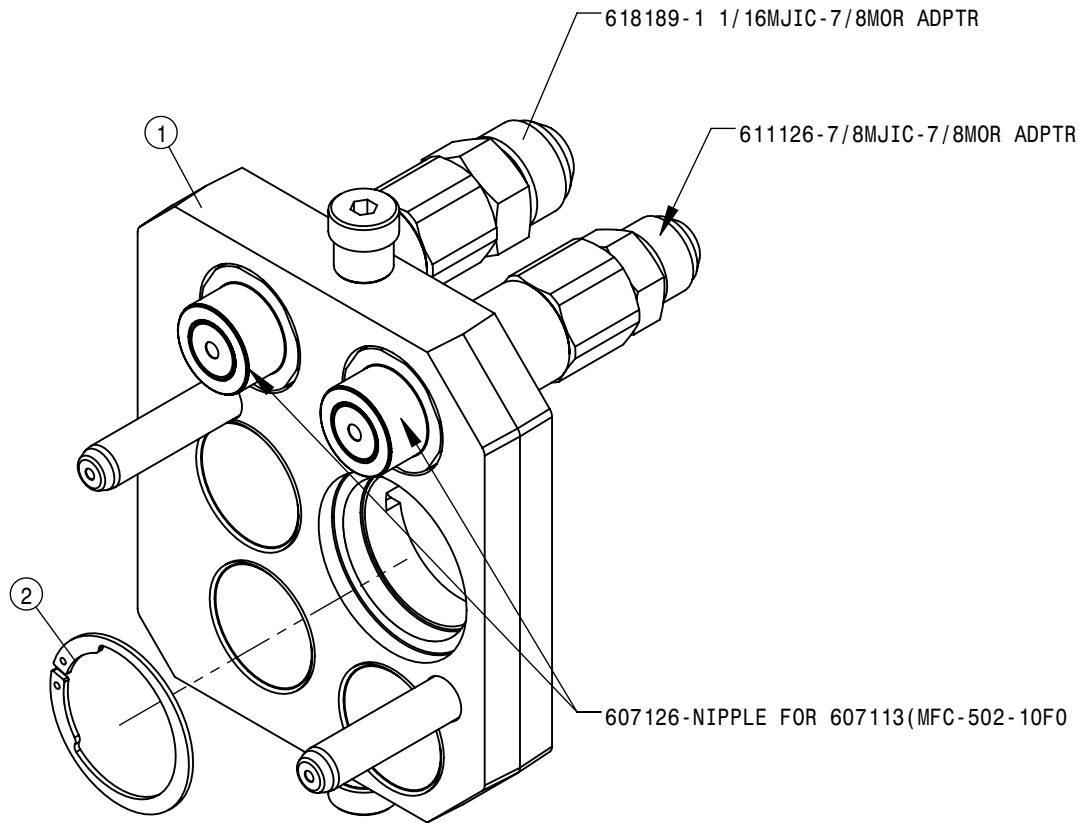


LIFT AND LEVEL VALVE ASSEMBLY 120' HYBRID

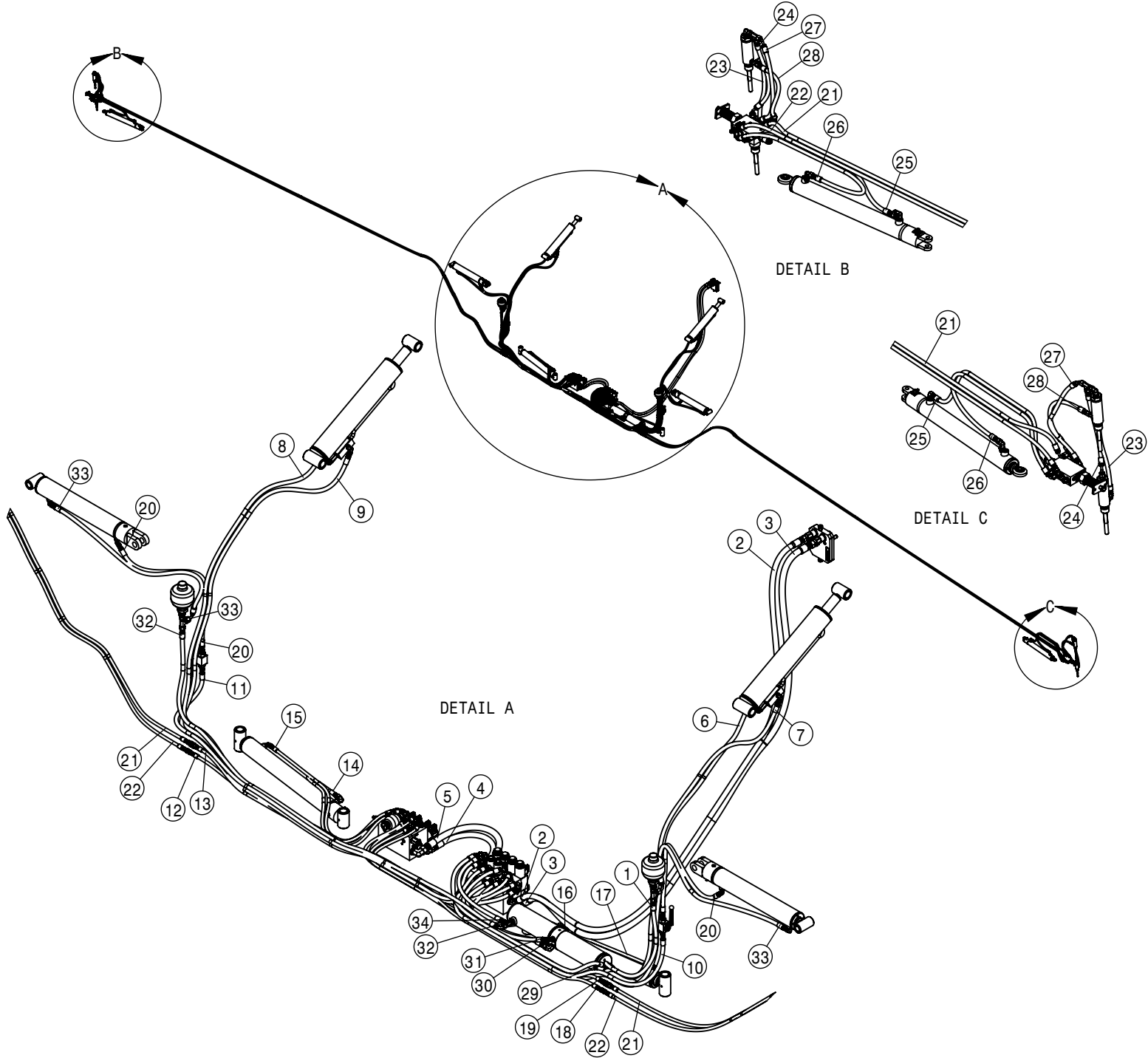
DET	QTY	P/N	DESCRIPTION
1	4	470460	3/8UNC X 1 HHSFB GR5 MC
2	1	606477	4 - SECTION LIFT/LEVEL/AWR
3	2	611125	3/4MJIC-3/4MOR ADPTR
4	1	611126	7/8MJIC-7/8MOR ADPTR
5	1	611127	1 1/16MJIC-1 1/16MOR ADPTR
6	2	614765	9/16MJIC-9/16MOR, .047 ORIFICE ADPTR
7	1	618119	9/16MJIC-90-9/16MOR LBO
8	2	618126	9/16MJIC-9/16MOR ADPTR
9	1	618241	3/4MJIC-90-3/4MOR LBO
10	1	618313	1 1/16MJIC-45-1 1/16MOR LBO
11	1	618315	3/4MJIC-45-3/4MOR LBO
12	1	618443	3/4MJIC-90-3/4MOR EX LG LBO
13	1	618618	9/16MJIC-90-9/16FJIC SWIV LBO
14	1	618644	7/8MJIC-45-7/8MOR LBO



FOLD VALVE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	4	470460	3/8UNC X 1 HHSFB GR5 MC
2	1	470759	ACCUMULATOR, 5CI 800 PSI
3	1	606468	VALVE, FOLD, 4-SECTION
4	1	611128	7/8MJIC-90-7/8MOR LBO
5	2	618119	9/16MJIC-90-9/16MOR LBO
6	2	618126	9/16MJIC-9/16MOR ADPTR
7	1	618248	1 1/16MJIC-90-1 1/16MOR LBO
8	1	618440	9/16MJIC-90-9/16MOR EX LG LBO
9	2	618467	7/16MJIC-7/16MOR ADPTR
10	2	618473	7/16MJIC-90-7/16MOR LBO
11	1	618668	9/16FJIC SWIV-9/16MOR ADPTR
12	2	618753	7/16 MOR PLUG, HEX SOCKET

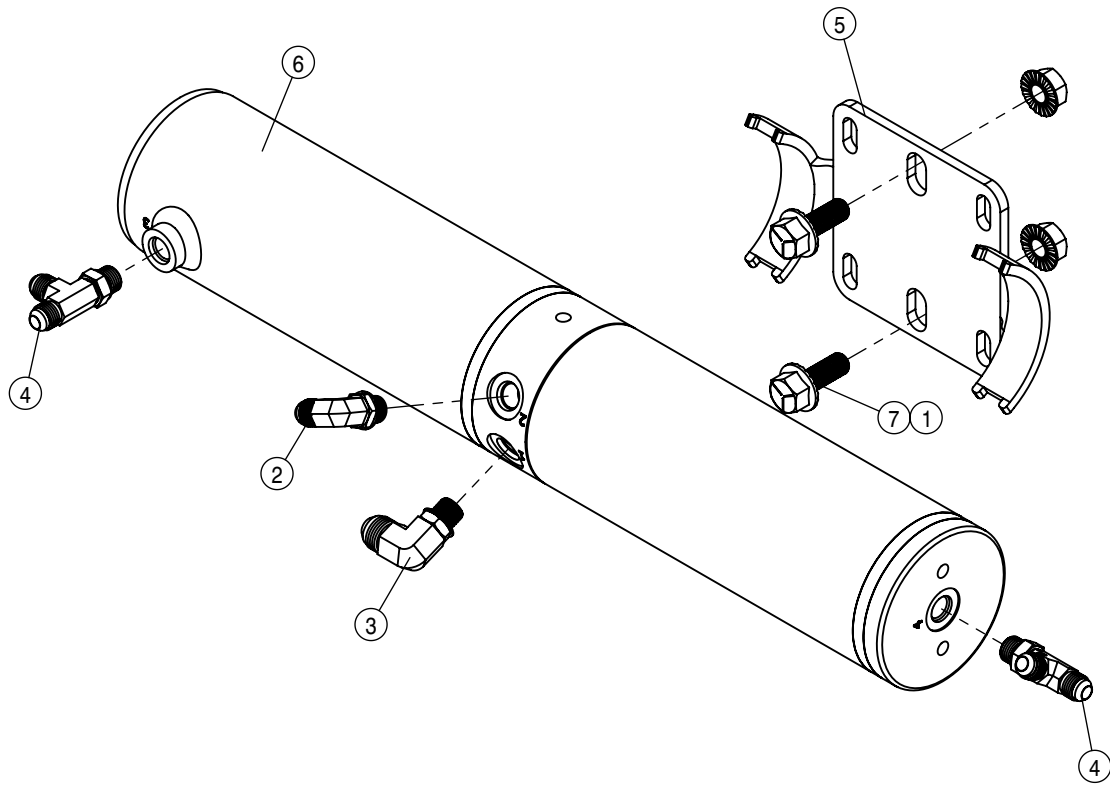


MULTICOUPLER ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	607114	MOBILE HALF COUPLER ASSY, 0502
2	1	629546	SNAP RING, 1.637 EXTERNAL

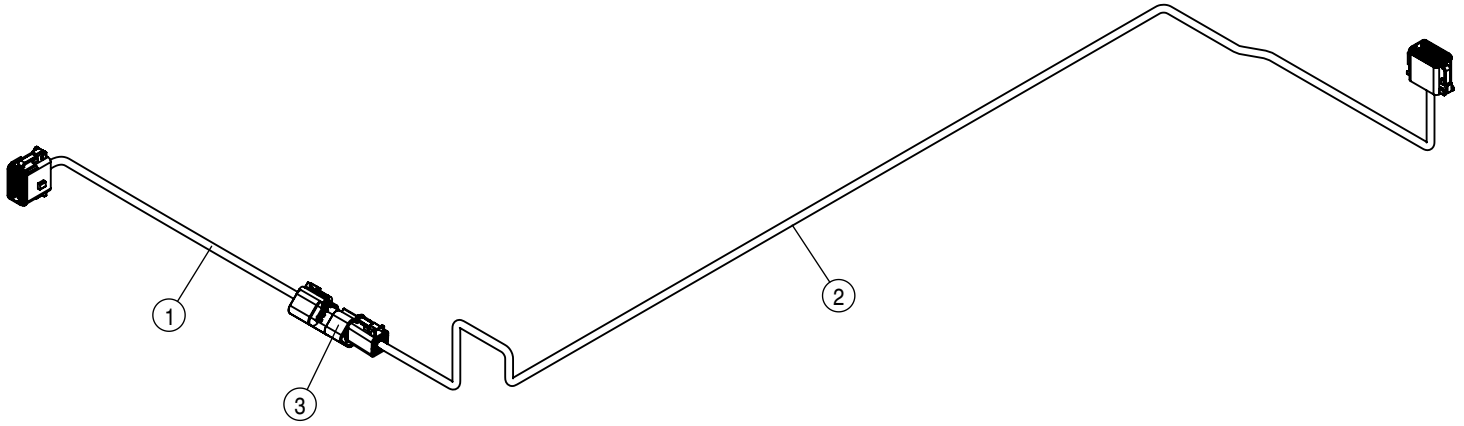


HYDRAULIC HOISING W/ACTIVE WING ROLL 120' HYBRID				
DET	QTY	P/N	DESCRIPTION	
1	1	616365	06-451TC-08FJX-06FJX90-30	H/A
2	1	617215	10-451TC-10FJX-10FJX-116	H/A
3	1	617216	12-451TC-12FJX-12FJX-114	H/A
4	1	617217	10-451TC-10FJX-10FJX90-26	H/A
5	1	617218	12-451TC-12FJX-12FJX90-28	H/A
6	1	617219	06-451TC-08FJX-08FJX90-121	H/A
7	1	617220	06-451TC-06FJX-06FJX90-120	H/A
8	1	617221	06-451TC-08FJX-08FJX-147	H/A
9	1	617222	06-451TC-06FJX-06FJX90-151	H/A
10	1	617223	06-451TC-06FJX-08FJX90-70	H/A
11	1	617224	06-451TC-06FJX-08FJX90-94	H/A
12	1	617428	04-451TC-04FJX-04FJX-49	H/A
13	1	617429	04-451TC-06FJX-06FJX-47	H/A
14	1	617430	04-451TC-08FJX-06FJX90-45	H/A
15	1	617431	04-451TC-06FJX-04FJX90-52	H/A
16	1	617432	04-451TC-08FJX-06FJX90-68	H/A
17	1	617433	04-451TC-06FJX-04FJX90-74	H/A

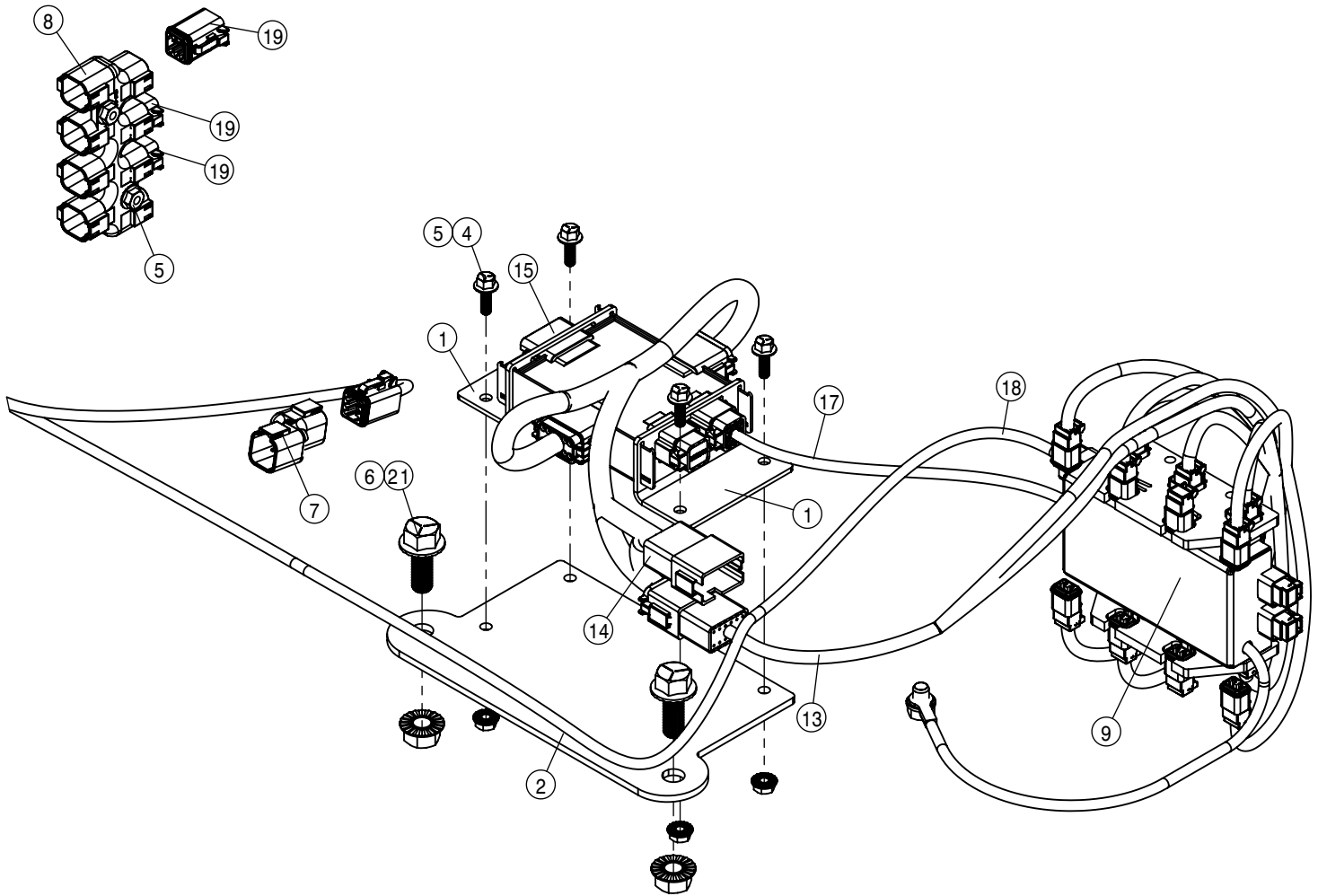
HYDRAULIC HOISING W/ACTIVE WING ROLL 120' HYBRID				
DET	QTY	P/N	DESCRIPTION	
18	1	617434	04-451TC-04FJX-04FJX-72	H/A
19	1	617435	04-451TC-06FJX-06FJX-70	H/A
20	2	617437	06-451TC-06FJX-06FJX-34	H/A
21	2	617438	04-451TC-06FJX-06FJX90-328	H/A
22	2	617439	04-451TC-04FJX-04FJX-331	H/A
23	2	617440	04-451TC-04FJX-04FJX90-14.5H/A	H/A
24	2	617441	04-451TC-06FJX-06FJX45-15	H/A
25	2	617442	04-451TC-06FJX-06FJX-35	H/A
26	2	617443	04-451TC-06FJX-04FJX90-40	H/A
27	2	617444	04-451TC-04FJX-06FJX45-19	H/A
28	2	617445	04-451TC-04FJX-06FJX45-14	H/A
29	1	619090	06-451TC-06FJX-06FJX45-55	H/A
30	1	619091	06-451TC-08FJX-08FJX-29	H/A
31	1	619092	06-451TC-06FJX-06FJX90-33	H/A
32	1	619093	06-451TC-08FJX-06FJX90-101	H/A
33	2	619095	06-451TC-06FJX-08FJX90-45	H/A
34	1	619171	06-451TC-06FJX-06FJX90-25	H/A



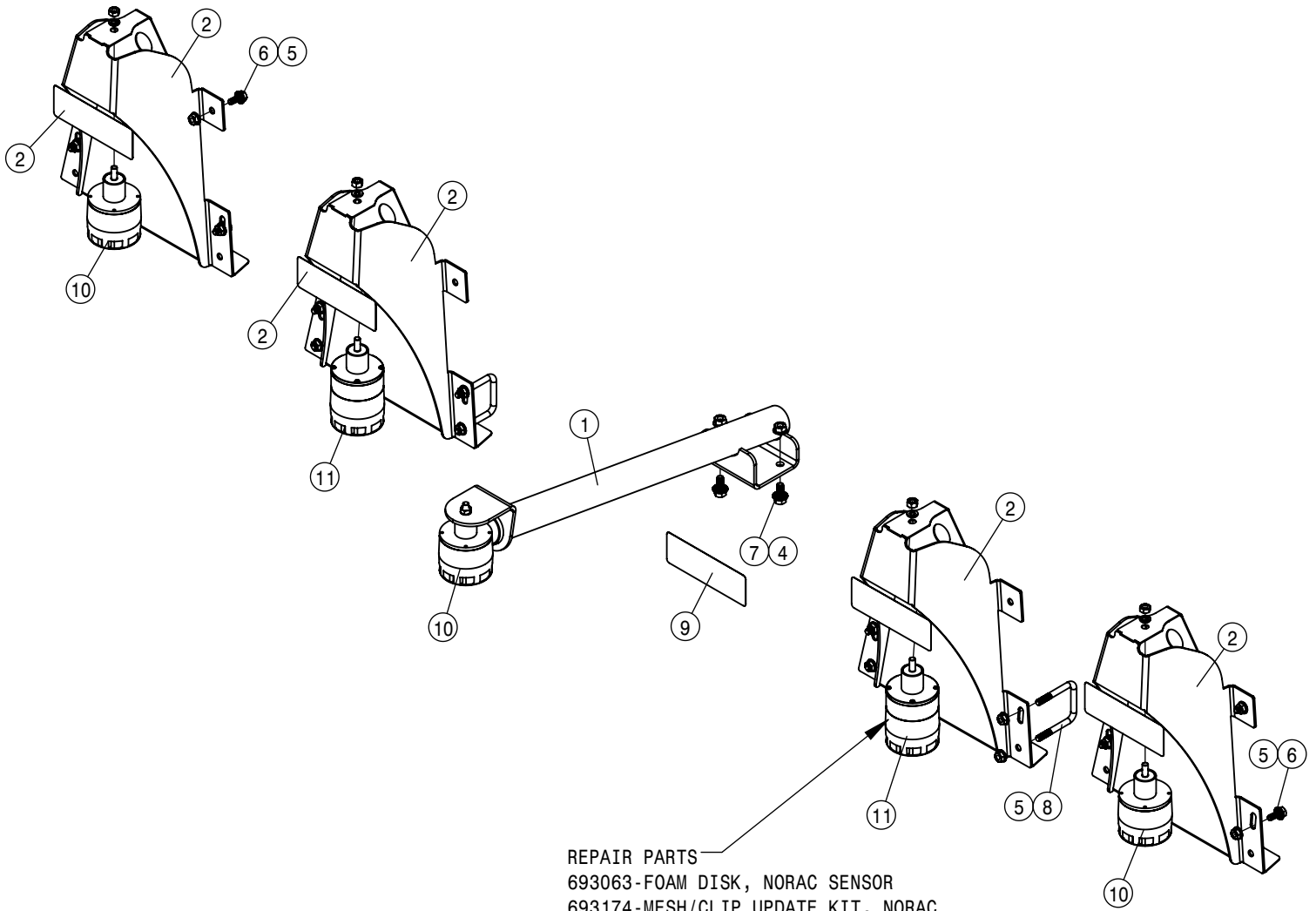
ACTIVE WING ROLL CYLINDER ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	470360	1/2-13UNC HEX FLG NUT SER MC GR5
2	1	618119	9/16MJIC-90-9/16MOR LBO
3	1	618249	3/4MJIC-90-9/16MOR LBO
4	2	618444	9/16MOR RUN TEE-9/16MJIC
5	1	621674	AWR CYL BRKT
6	1	621675	AWR CYL
7	2	900517	1/2UNC X 1 1/4 HHSFB GR5 MC



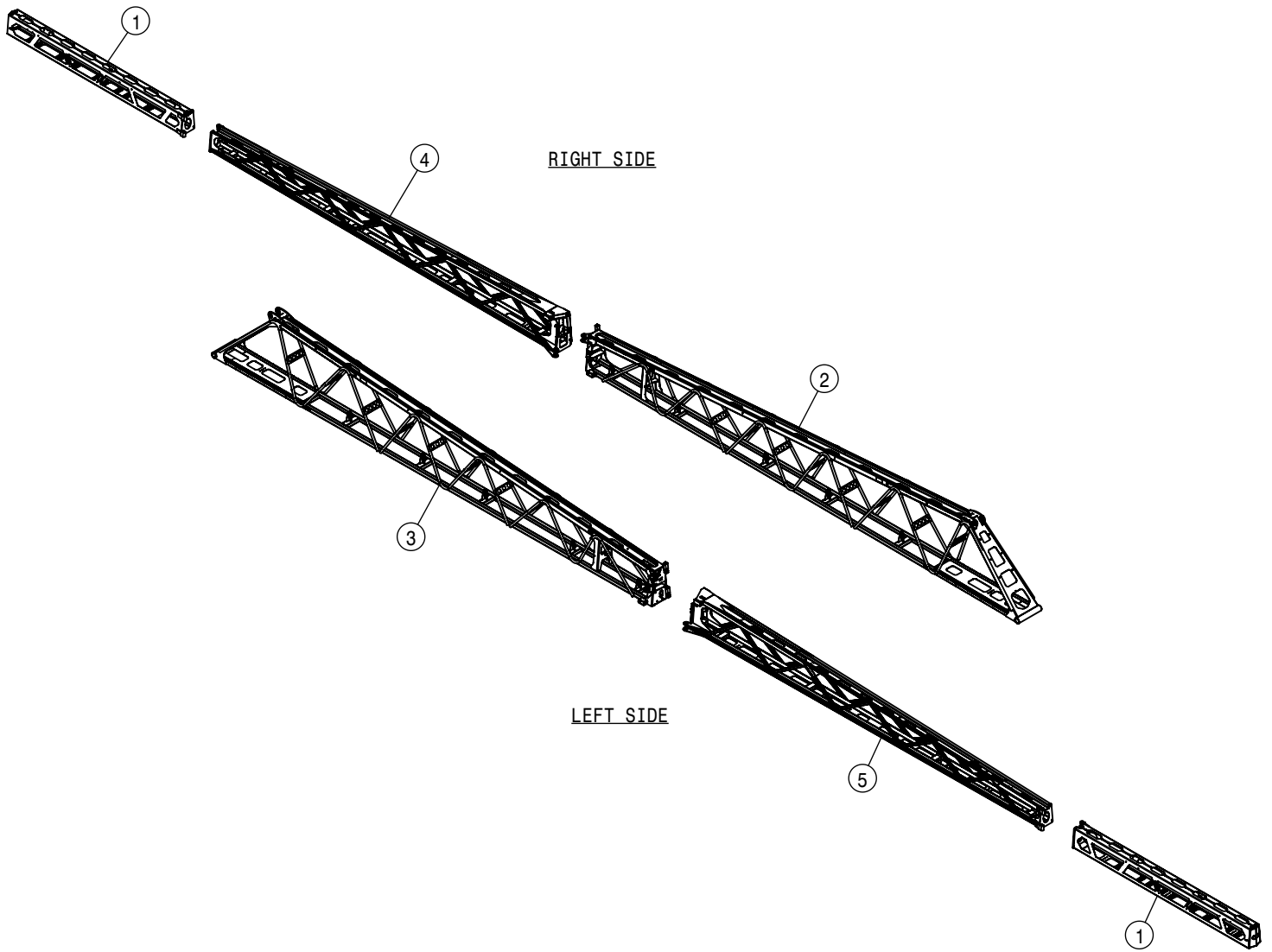
NORAC CAB TO BOOM HARNESS ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	693077	NORAC CABLE, UC5 NETWORK, 10"
2	1	693078	NORAC CABLE, UC5 NETWORK, 90"
3	1	693128	NORAC UC5 NETWORK 2-WAY CPLR



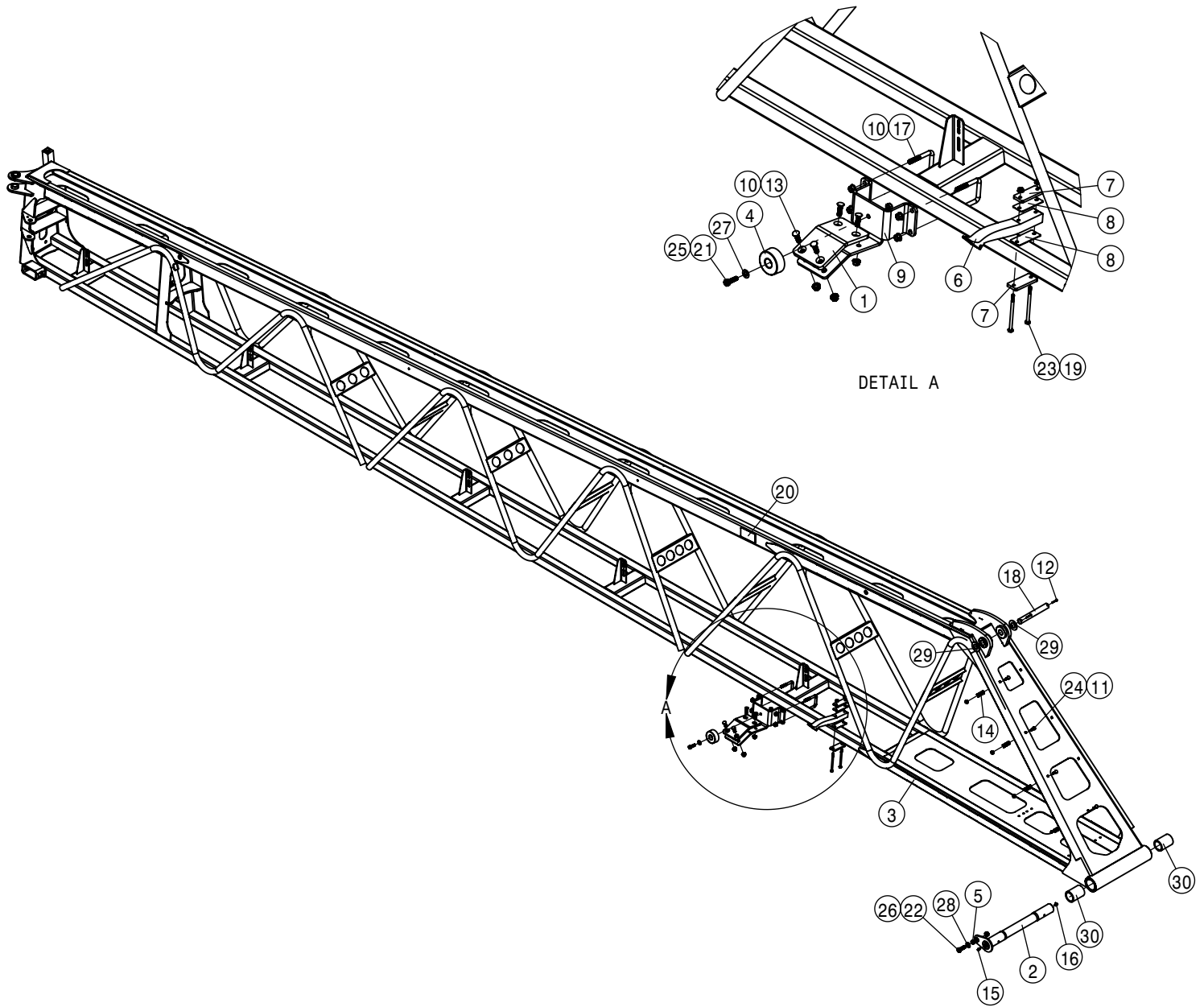
NORAC MODULE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
	1	2	167179 CLAMP UC5 BRKT
	2	1	167868 NORAC MODULE MT
	NS	2	294353 HARNESS, 2 PIN JUMPER AWR
	4	4	470118 1/4UNC X 3/4 HHSFB GR5 MC
	5	6	470121 1/4-20UNC HEX FLG NUT SER MC GR5
	6	2	470360 1/2-13UNC HEX FLG NUT SER MC GR5
	7	2	693128 NORAC UC5 NETWORK 2-WAY CPLR
	8	1	693131 NORAC UC5 NETWORK CPLR, 8-WAY
	9	1	693133 NORAC MODULE, UC5 VALVE
	NS	2	693147 NORAC UC5 NETWORK CPLR, 3-WAY
	NS	1	693161 NORAC CABLE, UC5 NETWORK, 5M
	NS	1	693390 NORAC CABLE, STS BM DISCONNECT
	13	1	693749 UC5 CABLE, VALVE
	14	1	693750 UC5 INTERFACE CABLE
	15	1	693751 UC5 INPUT PASS THRU MODULE
	NS	4	693752 UC5 NETWORK 2 PIN PLUG
	17	1	693757 UC5 NETWORK CABLE, 14 AWG .5M
	18	3	693758 UC5 NETWORK CABLE, 14 AWG 3M
	19	4	693800 UC5 NETWORK 6PIN PLUG
	NS	3	693964 CABLE UC5 NETWORK 14 AWG 10M
	21	2	900517 1/2UNC X 1 1/4 HHSFB GR5 MC



NORAC SENSOR MOUNTS 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
	1	167310	NORAC MNT WLD CTR, 120
	4	167783	NORAC SENSOR MT W/DECAL
NS	2	294353	HARNES, 2 PIN JUMPER AWR
	4	470087	3/8-16UNC HEX FLG NUT SER MC GR5
	5	470113	5/16-18UNC HEX FLG NUT SER MC GR5
	6	470233	5/16UNC X 3/4 HHSFB GR5 MC
	7	470409	3/8UNC X 3/4 HHSFB GR5 MC
	8	474028	5/16UNC-2.06ID -2.63 U-BOLT SQ
	9	650210	DECAL, WARNING, UNEXPECTED MOVE
	10	693113	SENSOR, NORAC UC5 ULTRASONIC
	11	693836	NORAC ULTRASONIC MAX SENSOR

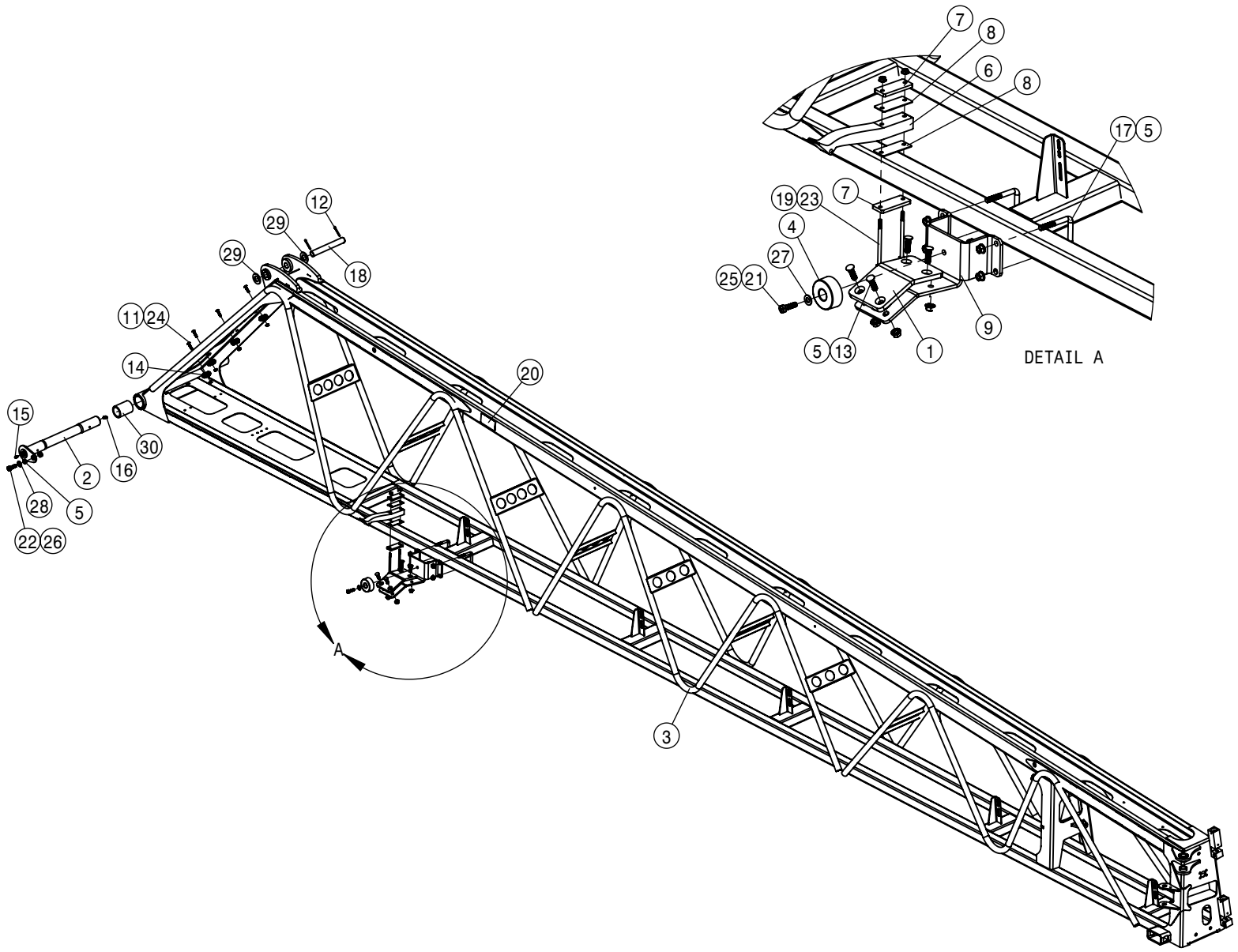


BOOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	167151	BREAKAWAY AL BM 120 '16
2	1	167858	RH SECT-1 HYBRID BM W/DECAL
3	1	167859	LH SECT-1 HYBRID BM W/DECAL
4	1	167860	RH SECT-2 HYBRID BM W/DECAL
5	1	167861	LH SECT-2 HYBRID BM W/DECAL



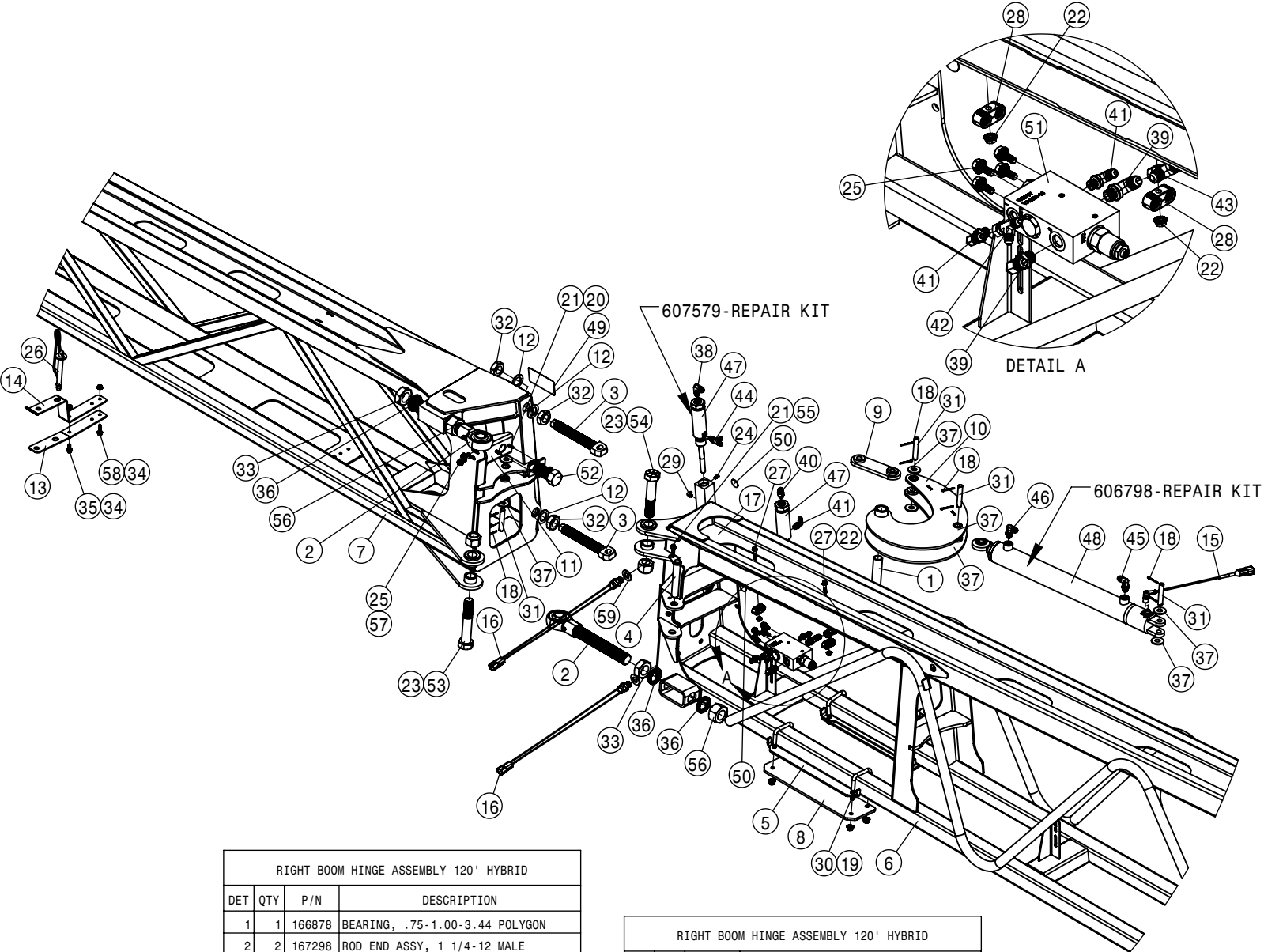
RIGHT INNER BOOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	166092	CRADLE PAD A10
2	1	167576	LEVEL PIN WLD, 120 NITRIDE
3	1	167858	RH SECT-1 HYBRID BM W/DECAL
4	1	167866	BUMPER-FLEXIBLE
5	1	169407	LEVEL PIN TAB BUSHING
6	1	169455	LATCH, DETENT, UHMW
7	2	169456	PLT, WASHER
8	2	169457	PLT, SHIM
9	1	169458	BM CRADLE, OTR WING
10	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
11	4	470121	1/4-20UNC HEX FLG NUT SER MC GR5
12	2	470162	3/16 X 1 1/2 COTTER PIN
13	4	470328	3/8UNC X 1 1/4 #3HD PLOW BOLT
14	4	470888	TWIN #4 CLAMP
15	1	471006	GREASE ZERK, 1/4-28 TAPER THD

RIGHT INNER BOOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
16	1	471028	GREASE ZERK, 1/4-28 90DEG
17	2	472044	3/8UNC-2ID-3.00 U-BOLT SQ,ZINC
18	1	472221	CLEVIS PIN HL 1.0 DIA X 6.875
19	2	473832	1/4-20UNC HEX FLG NUT SER SS
20	1	650204	DECAL, WARNING, CRUSH HAZARD FP
21	1	900130	3/8UNC X 1 1/4 HHCS GR5 MC
22	1	900265	1/2UNC X 1 1/2 HHCS GR5 MC
23	2	900471	1/4UNC X 4 HHCS SS
24	4	901010	1/4UNC X 1 1/4 CARR BOLT
25	1	914004	3/8-16UNC STOVER NUT MC GR5
26	1	914008	1/2-13UNC STOVER NUT MC GR5
27	1	920002	SAE FLAT WASHER 3/8 MC
28	1	920004	SAE FLAT WASHER 1/2 MC
29	2	920008	SAE FLAT WASHER 1 MC
30	2	A57375	BEARING, 1.75-2.25-3.00 POLYGON



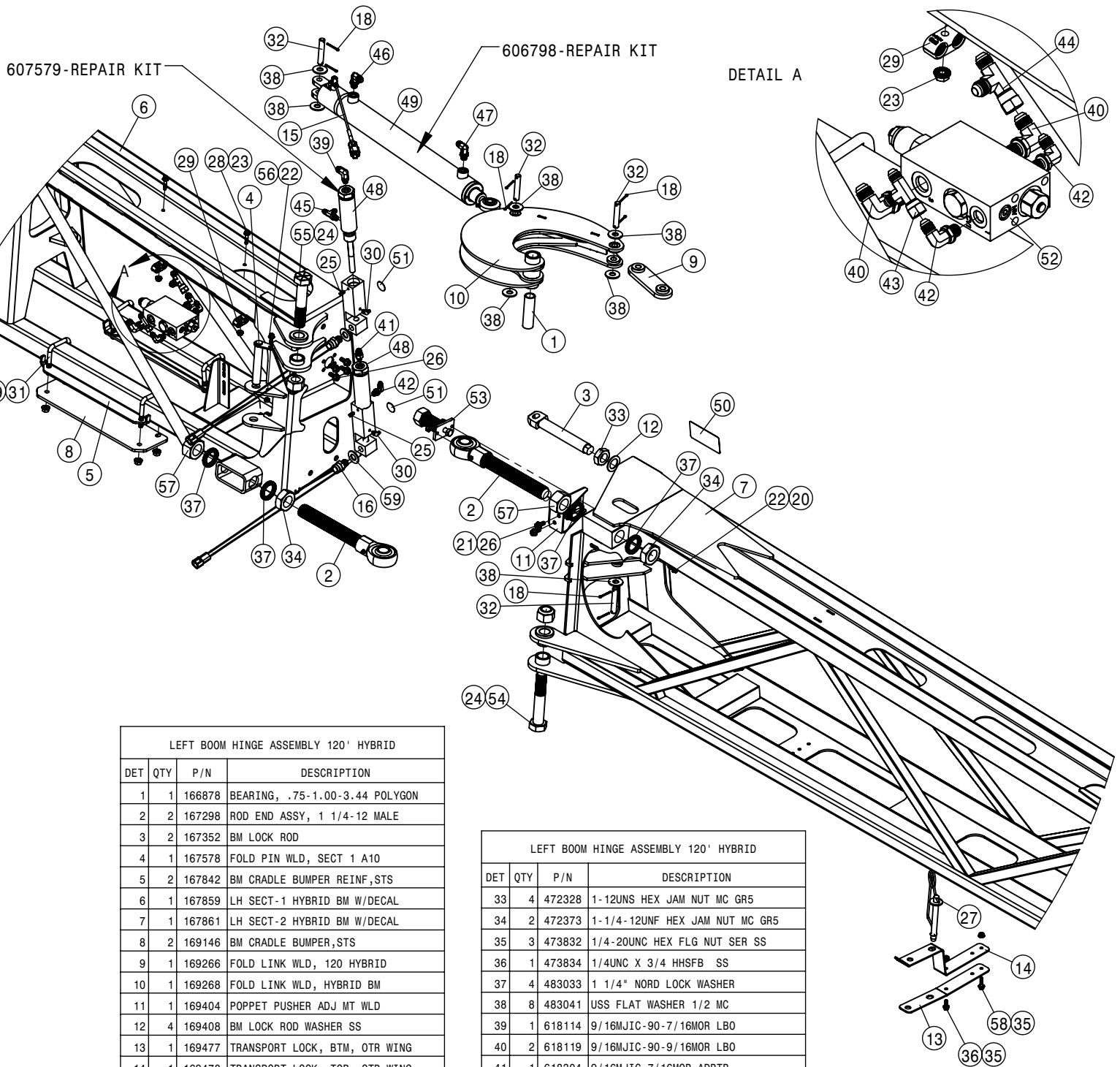
LEFT INNER BOOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	166092	CRADLE PAD A10
2	1	167576	LEVEL PIN WLD, 120 NITRIDE
3	1	167859	LH SECT-1 HYBRID BM W/DECAL
4	1	167866	BUMPER-FLEXIBLE
5	1	169407	LEVEL PIN TAB BUSHING
6	1	169455	LATCH, DETENT, UHMW
7	2	169456	PLT, WASHER
8	2	169457	PLT, SHIM
9	1	169458	BM CRADLE, OTR WING
5	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
11	4	470121	1/4-20UNC HEX FLG NUT SER MC GR5
12	2	470162	3/16 X 1 1/2 COTTER PIN
13	4	470328	3/8UNC X 1 1/4 #3HD PLOW BOLT
14	4	470888	TWIN #4 CLAMP
15	1	471006	GREASE ZERK, 1/4-28 TAPER THD

LEFT INNER BOOM ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
16	1	471028	GREASE ZERK, 1/4-28 90DEG
17	2	472044	3/8UNC-2ID-3.00 U-BOLT SQ,ZINC
18	1	472221	CLEVIS PIN HL 1.0 DIA X 6.875
19	2	473832	1/4-20UNC HEX FLG NUT SER SS
20	1	650204	DECAL, WARNING, CRUSH HAZARD FP
21	1	900130	3/8UNC X 1 1/4 HHCS GR5 MC
22	1	900265	1/2UNC X 1 1/2 HHCS GR5 MC
23	2	900471	1/4UNC X 4 HHCS SS
24	4	901010	1/4UNC X 1 1/4 CARR BOLT
25	1	914004	3/8-16UNC STOVER NUT MC GR5
26	1	914008	1/2-13UNC STOVER NUT MC GR5
27	1	920002	SAE FLAT WASHER 3/8 MC
28	1	920004	SAE FLAT WASHER 1/2 MC
29	2	920008	SAE FLAT WASHER 1 MC
30	2	A57375	BEARING,1.75-2.25-3.00 POLYGON



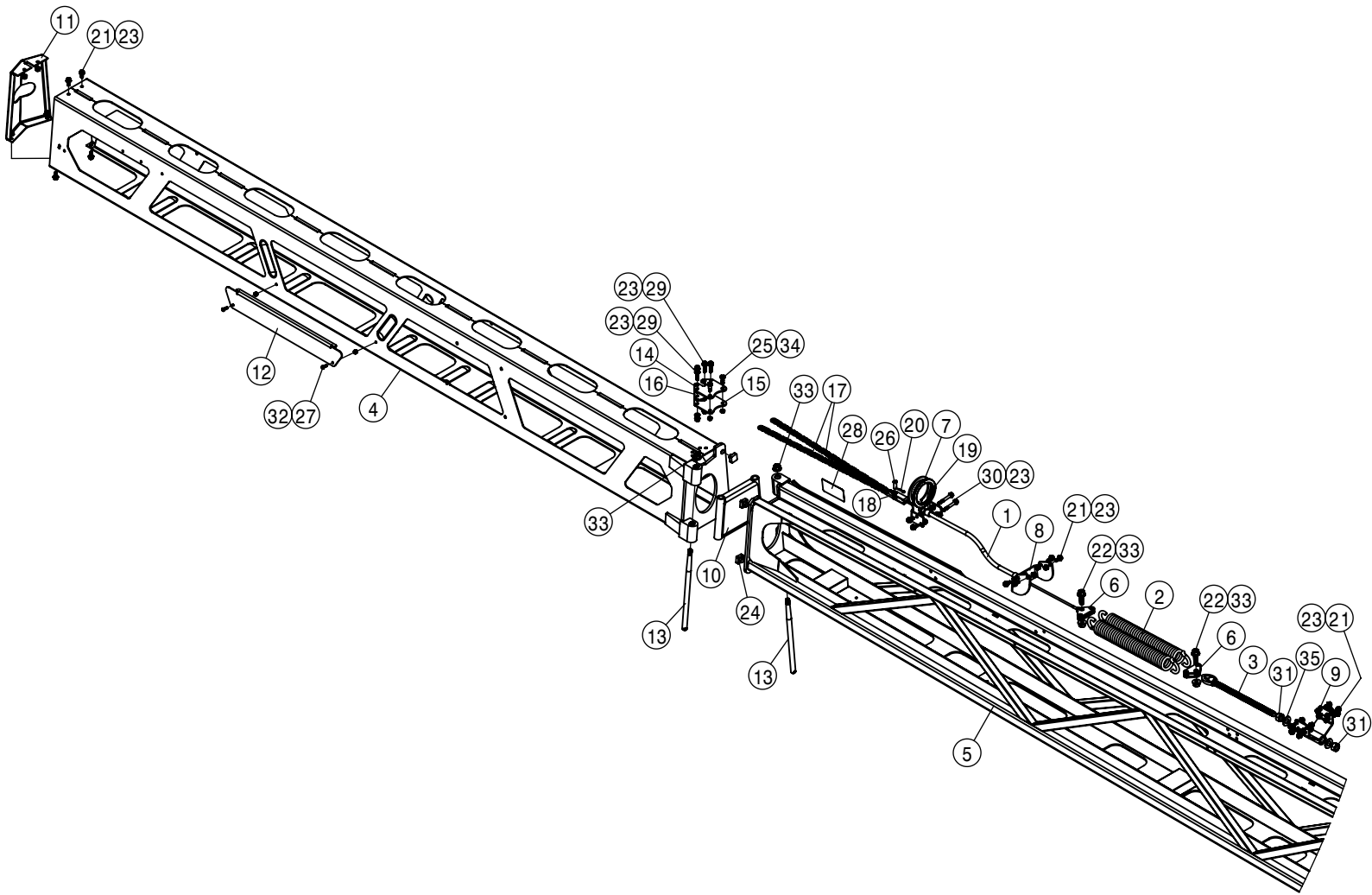
RIGHT BOOM HINGE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	166878	BEARING, .75-1.00-3.44 POLYGON
2	2	167298	ROD END ASSY, 1 1/4-12 MALE
3	2	167352	BM LOCK ROD
4	1	167578	FOLD PIN WLD, SECT 1 A10
5	2	167842	BM CRADLE BUMPER REINF,STS
6	1	167858	RH SECT-1 HYBRID BM W/DECAL
7	1	167860	RH SECT-2 HYBRID BM W/DECAL
8	2	169146	BM CRADLE BUMPER,STS
9	1	169266	FOLD LINK WLD, 120 HYBRID
10	1	169268	FOLD LINK WLD, HYBRID BM
11	1	169404	POPPET PUSHER ADJ MT WLD
12	4	169408	BM LOCK ROD WASHER SS
13	1	169477	TRANSPORT LOCK, BTM, OTR WING
14	1	169478	TRANSPORT LOCK, TOP, OTR WING
15	1	291994	SENSOR HARNESS FOR AWS
16	2	292929	BM CATCH SENSOR
NS	1	294309	HARNESS, BOOM WING
18	8	390984	1/8 X 1 1/4 COTTER PIN
19	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
20	2	470089	1/4-20UNC NYLOCK NUT MC GR5
21	3	470118	1/4UNC X 3/4 HHSFB GR5 MC
22	2	470121	1/4-20UNC HEX FLG NUT SER MC GR5
23	2	470144	1-8UNC NYLOCK NUT MC GR5
24	2	470199	1/4UNC X 3/8 SQHD CUP SET SCR
25	6	470233	5/16UNC X 3/4 HHSFB GR5 MC
26	1	470361	SNAP LOCK PIN, 1/2 X 3 1/2
27	2	470407	1/4UNC X 1 1/4 HHSFB GR5 MC
28	2	470888	TWIN #4 CLAMP
29	2	471028	GREASE ZERK, 1/4-28 90DEG
30	4	472040	3/8UNC-2.18ID-2.81 U-BOLT SQ
31	4	472291	CLEVIS PIN HL 0.5 DIA X 2.250

RIGHT BOOM HINGE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
32	4	472328	1-12UNS HEX JAM NUT MC GR5
33	2	472373	1-1/4-12UNF HEX JAM NUT MC GR5
34	3	473832	1/4-20UNC HEX FLG NUT SER SS
35	1	473834	1/4UNC X 3/4 HHSFB SS
36	4	483033	1 1/4" NORD LOCK WASHER
37	8	483041	USS FLAT WASHER 1/2 MC
38	1	618114	9/16MJIC-90-7/16MOR LBO
39	2	618119	9/16MJIC-90-9/16MOR LBO
40	1	618304	9/16MJIC-7/16MOR ADPTR
41	3	618473	7/16MJIC-90-7/16MOR LBO
42	1	618485	7/16FJIC SW RUN TEE-7/16MJIC
43	1	618486	9/16FJIC SW RUN TEE-9/16MJIC
44	1	618509	7/16MOR RUN TEE-7/16MJIC
45	1	618688	9/16MOR-90-9/16MJ .025 CHK VLV
46	1	618860	9/16MOR-90-9/16MJ .015 CHK VLV
47	2	620104	HYD CYL 1.00" X 1.813" X 0.50"
48	1	621667	HYD CYL, 2.00 X 15.25 X 1.25
49	1	650204	DECAL, WARNING, CRUSH HAZARD FP
50	2	650205	DECAL, GREASE WEEKLY
51	1	701627	MECHANICAL SEQUENCE VLV
52	1	701629	ASSY, POPPET PUSHER (149 LBS)
53	1	900817	1UNC X 5 1/2 HHCS GR8 MC
54	1	900850	1UNC X 5 HHCS GR8 MC
55	1	910000	1/4-20UNC HEX NUT MC GR5
56	2	910041	1-1/4-12UNF HEX NUT MC GR5
57	2	910119	5/16-18UNC HEX FLG NUT SER SS
58	2	910124	1/4UNC X 1 HHSFB SS
59	2	920005	SAE FLAT WASHER 5/8 MC



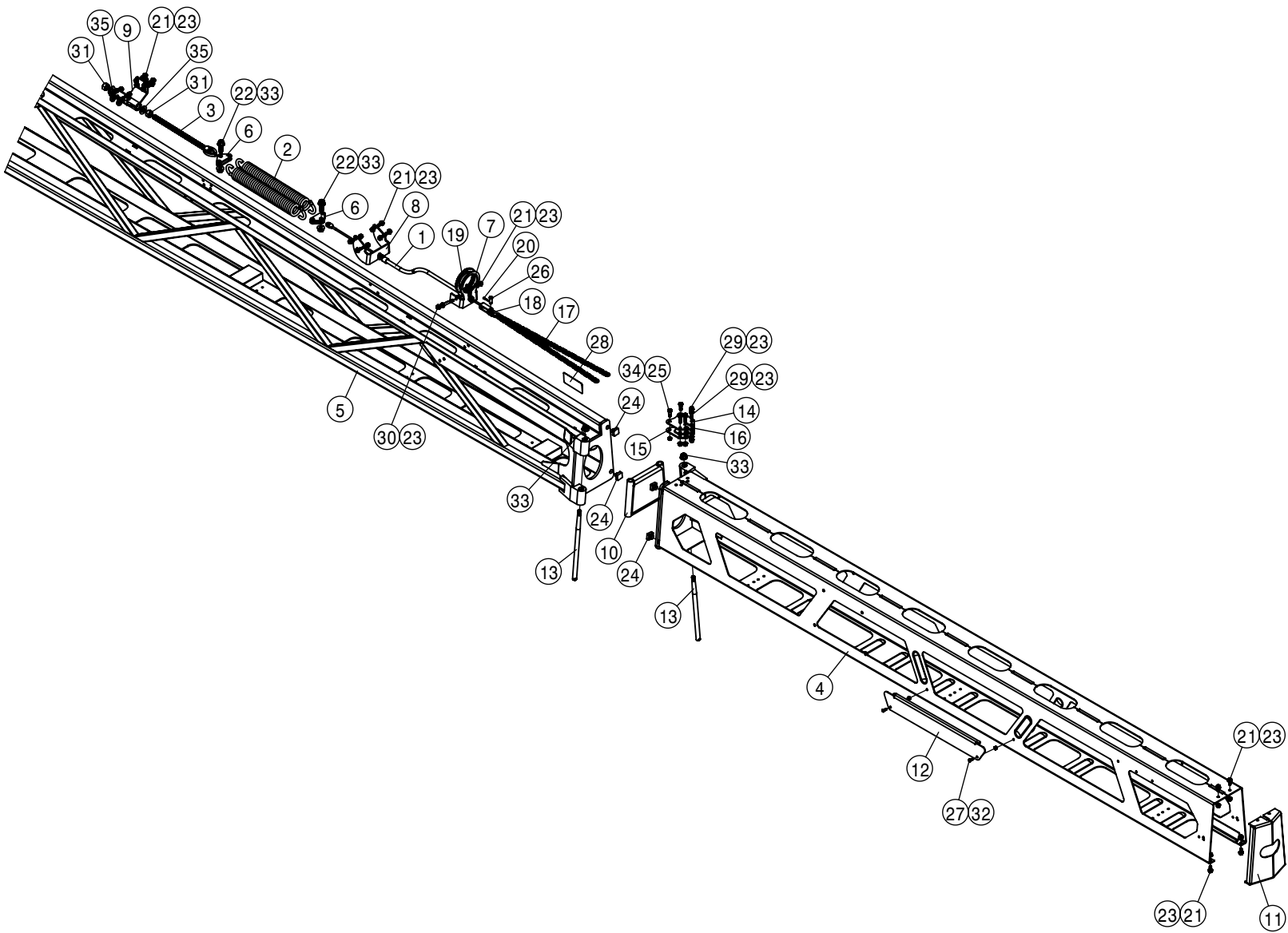
LEFT BOOM HINGE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	166878	BEARING, .75-1.00-3.44 POLYGON
2	2	167298	ROD END ASSY, 1 1/4-12 MALE
3	2	167352	BM LOCK ROD
4	1	167578	FOLD PIN WLD, SECT 1 A10
5	2	167842	BM CRADLE BUMPER REINF,STS
6	1	167859	LH SECT-1 HYBRID BM W/DECAL
7	1	167861	LH SECT-2 HYBRID BM W/DECAL
8	2	169146	BM CRADLE BUMPER,STS
9	1	169266	FOLD LINK WLD, 120 HYBRID
10	1	169268	FOLD LINK WLD, HYBRID BM
11	1	169404	POPPET PUSHER ADJ MT WLD
12	4	169408	BM LOCK ROD WASHER SS
13	1	169477	TRANSPORT LOCK, BTM, OTR WING
14	1	169478	TRANSPORT LOCK, TOP, OTR WING
15	1	291994	SENSOR HARNESS FOR AWS
16	2	292929	BM CATCH SENSOR
NS	1	294309	HARNESS, BOOM WING
18	8	390984	1/8 X 1 1/4 COTTER PIN
19	8	470087	3/8-16UNC HEX FLG NUT SER MC GR5
20	2	470089	1/4-20UNC NYLOCK NUT MC GR5
21	2	470113	5/16-18UNC HEX FLG NUT SER MC GR5
22	3	470118	1/4UNC X 3/4 HHSFB GR5 MC
23	2	470121	1/4-20UNC HEX FLG NUT SER MC GR5
24	2	470144	1-8UNC NYLOCK NUT MC GR5
25	2	470199	1/4UNC X 3/8 SQHD CUP SET SCR
26	6	470233	5/16UNC X 3/4 HHSFB GR5 MC
27	1	470361	SNAP LOCK PIN, 1/2 X 3 1/2
28	2	470407	1/4UNC X 1 1/4 HHSFB GR5 MC
29	2	470888	TWIN #4 CLAMP
30	2	471028	GREASE ZERK, 1/4-28 90DEG
31	4	472040	3/8UNC-2.18ID-2.81 U-BOLT SQ
32	4	472291	CLEVIS PIN HL 0.5 DIA X 2.250

LEFT BOOM HINGE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
33	4	472328	1-12UNS HEX JAM NUT MC GR5
34	2	472373	1-1/4-12UNF HEX JAM NUT MC GR5
35	3	473832	1/4-20UNC HEX FLG NUT SER SS
36	1	473834	1/4UNC X 3/4 HHSFB SS
37	4	483033	1 1/4" NORD LOCK WASHER
38	8	483041	USS FLAT WASHER 1/2 MC
39	1	618114	9/16MJIC-90-7/16MOR LBO
40	2	618119	9/16MJIC-90-9/16MOR LBO
41	1	618304	9/16MJIC-7/16MOR ADPTR
42	3	618473	7/16MJIC-90-7/16MOR LBO
43	1	618485	7/16FJIC SW RUN TEE-7/16MJIC
44	1	618486	9/16FJIC SW RUN TEE-9/16MJIC
45	1	618509	7/16MOR RUN TEE-7/16MJIC
46	1	618688	9/16MOR-90-9/16MJ .025 CHK VLV
47	1	618860	9/16MOR-90-9/16MJ .015 CHK VLV
48	2	620104	HYD CYL 1.00" X 1.813" X 0.50"
49	1	621667	HYD CYL, 2.00 X 15.25 X 1.25
50	1	650204	DECAL, WARNING, CRUSH HAZARD FP
51	2	650205	DECAL, GREASE WEEKLY
52	1	701627	MECHANICAL SEQUENCE VLV
53	1	701629	ASSY, POPPET PUSHER (149 LBS)
54	1	900817	1UNC X 5 1/2 HHCS GR8 MC
55	1	900850	1UNC X 5 HHCS GR8 MC
56	1	910000	1/4-20UNC HEX NUT MC GR5
57	2	910041	1-1/4-12UNF HEX NUT MC GR5
58	2	910124	1/4UNC X 1 HHSFB SS
59	2	920005	SAE FLAT WASHER 5/8 MC



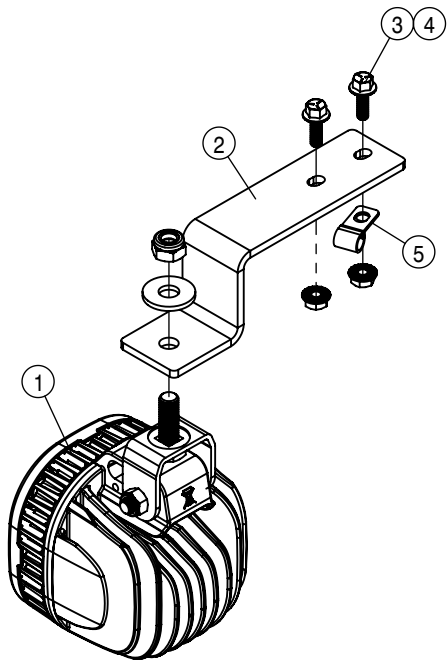
RIGHT BOOM BREAKAWAY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167092	CABLE,BREAK AWAY 120'A'12
2	2	167106	SPRING,BREAK AWAY 120'A'12
3	1	167107	BOOM SPRING ROD ASSY 120'A'12
4	1	167151	BREAKAWAY AL BM 120 '16
5	1	167860	RH SECT-2 HYBRID BM W/DECAL
6	4	169170	SPRING SPREADER LINK
7	1	169171	BRKWKY CABLE SHEATH OTR MT
8	1	169172	BRKWKY CABLE SHEATH INR MT
9	1	169175	BRKWKY SPRING TENSION MT WLD
10	1	169273	BREAKAWAY PIVOT WLD, AL BOOM
11	1	169306	BREAKAWAY CAP WLD
12	1	169411	HYBRID 120' BRKWKY BUMPER
13	2	169412	HYBRID BRKWKY HINGE PIN
14	1	169445	HYBRID BRKWKY TONGUE
15	1	169446	HYBRID BRKWKY TONGUE
16	1	169447	HYBRID BRKWKY TONGUE SPACER
17	2	169448	HYBRID BRKWKY CHAIN SS
18	1	169449	SS CONNECTING LINK

RIGHT BOOM BREAKAWAY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
19	1	193016-010	QUICKEDGE TRIM .060 TO .170
20	1	470040	COTTER PIN 5/32 X 3/4
21	18	470233	5/16UNC X 3/4 HHSFB GR5 MC
22	2	470431	1/2UNC X 1 1/2 HHSFB GR5 MC
23	24	470570	5/16-18UNC CTRLK FLG NUT MC GR5
24	4	470760	WEAR PAD, BRKWKY, HYBRID BM
25	2	470907	5/16-18 UNC SS SHOULDER BOLT
26	1	472205	CLEVIS PIN 3/8 DIA X 3/4 FREE
27	2	472379	1/4-20 UNC X 3/4 BHCS SS
28	1	650204	DECAL, WARNING, CRUSH HAZARD FP
29	4	900088	5/16UNC X 1 1/4 HHSFB GR5 MC
30	2	900089	5/16UNC X 2 1/4 HHSFB GR5 MC
31	2	910010	5/8-11UNC HEX NUT MC GR5
32	2	910118	1/4-20UNC NYLOCK NUT SS
33	4	914015	1/2-13UNC CTRLK FLG NUT MC GR5
34	2	914017	5/16-18UNC STOVER NUT SS
35	2	920005	SAE FLAT WASHER 5/8 MC

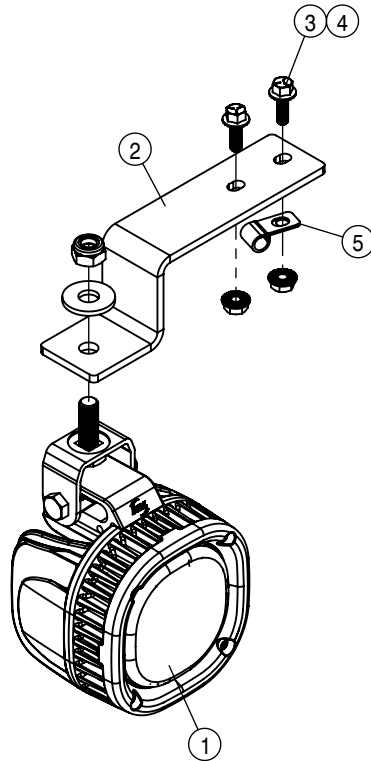


LEFT BOOM BREAKAWAY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167092	CABLE,BREAK AWAY 120'A'12
2	2	167106	SPRING,BREAK AWAY 120'A'12
3	1	167107	BOOM SPRING ROD ASSY 120'A'12
4	1	167151	BREAKAWAY AL BM 120 '16
5	1	167861	LH SECT-2 HYBRID BM W/DECAL
6	4	169170	SPRING SPREADER LINK
7	1	169171	BRKWKY CABLE SHEATH OTR MT
8	1	169172	BRKWKY CABLE SHEATH INR MT
9	1	169175	BRKWKY SPRING TENSION MT WLD
10	1	169273	BREAKAWAY PIVOT WLD, AL BOOM
11	1	169306	BREAKAWAY CAP WLD
12	1	169411	HYBRID 120' BRKWKY BUMPER
13	2	169412	HYBRID BRKWKY HINGE PIN
14	1	169445	HYBRID BRKWKY TONGUE
15	1	169446	HYBRID BRKWKY TONGUE
16	1	169447	HYBRID BRKWKY TONGUE SPACER
17	2	169448	HYBRID BRKWKY CHAIN SS
18	1	169449	SS CONNECTING LINK

LEFT BOOM BREAKAWAY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
19	1	193016-010	QUICKEDGE TRIM .060 TO .170
20	1	470040	COTTER PIN 5/32 X 3/4
21	18	470233	5/16UNC X 3/4 HHSFB GR5 MC
22	2	470431	1/2UNC X 1 1/2 HHSFB GR5 MC
23	24	470570	5/16-18UNC CTRLK FLG NUT MC GR5
24	4	470760	WEAR PAD, BRKWKY, HYBRID BM
25	2	470907	5/16-18 UNC SS SHOULDER BOLT
26	1	472205	CLEVIS PIN 3/8 DIA X 3/4 FREE
27	2	472379	1/4-20 UNC X 3/4 BHCS SS
28	1	650204	DECAL, WARNING, CRUSH HAZARD FP
29	4	900088	5/16UNC X 1 1/4 HHSFB GR5 MC
30	2	900089	5/16UNC X 2 1/4 HHSFB GR5 MC
31	2	910010	5/8-11UNC HEX NUT MC GR5
32	2	910118	1/4-20UNC NYLOCK NUT SS
33	4	914015	1/2-13UNC CTRLK FLG NUT MC GR5
34	2	914017	5/16-18UNC STOVER NUT SS
35	2	920005	SAE FLAT WASHER 5/8 MC

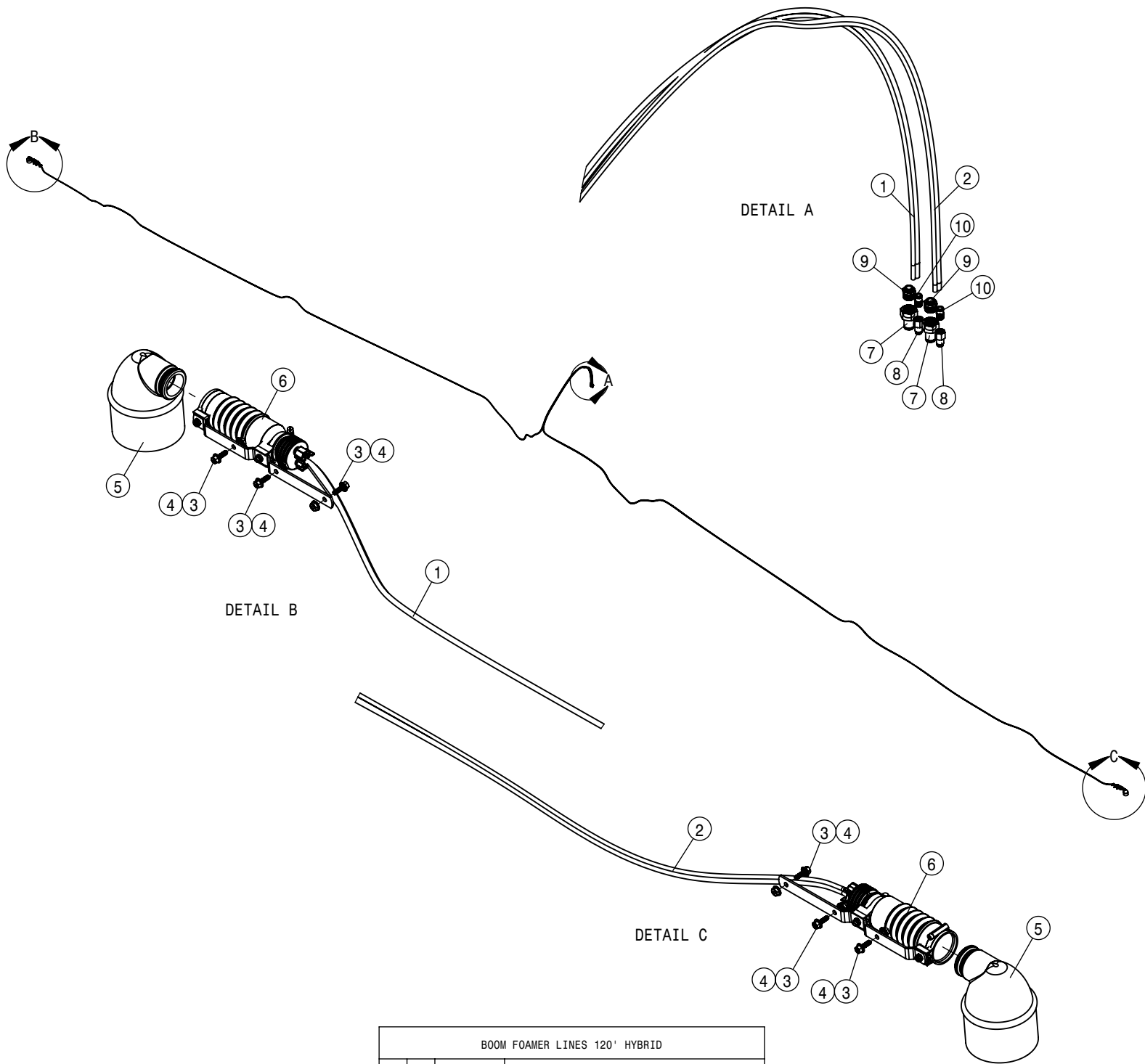


RIGHT SIDE

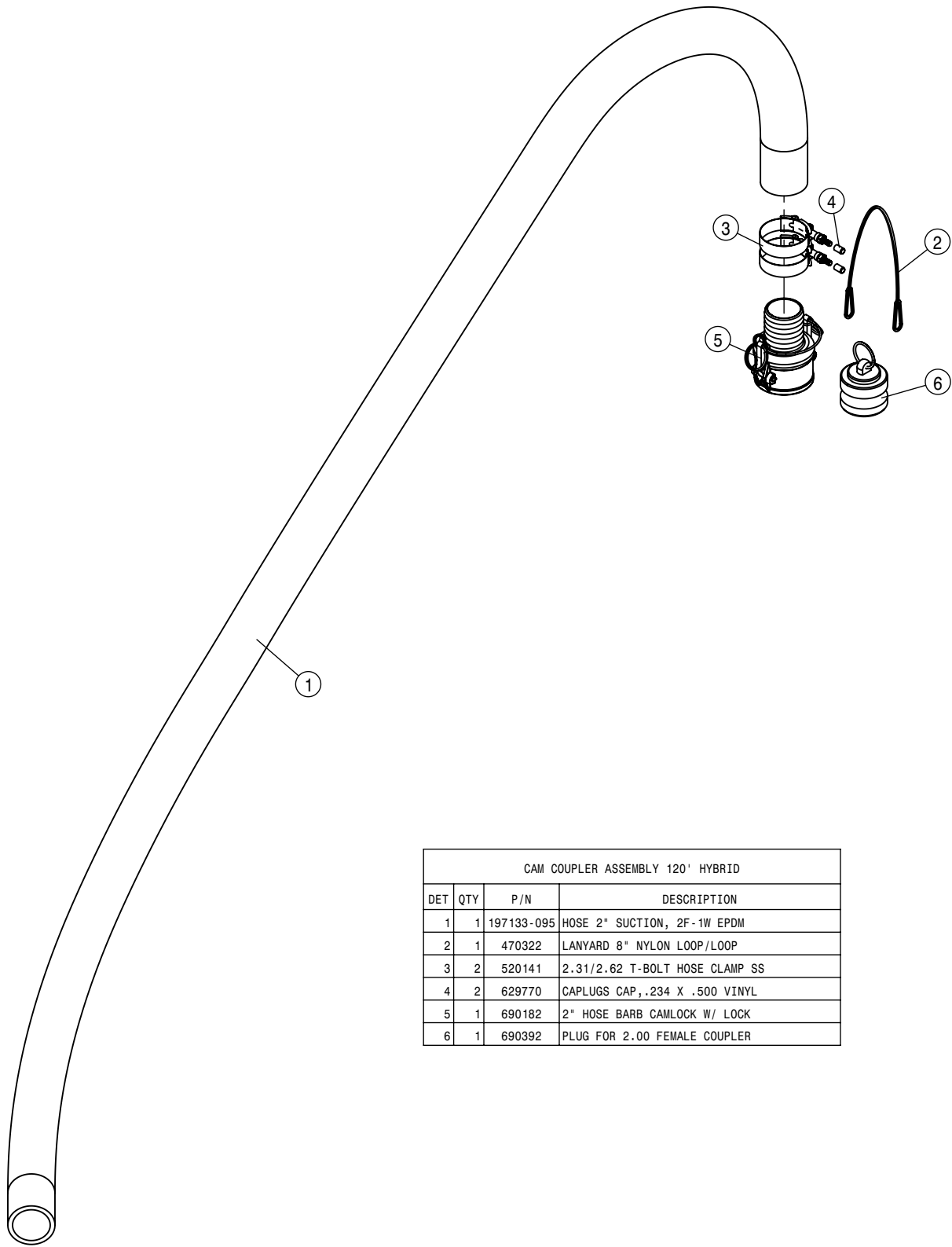


LEFT SIDE

NIGHT SPRAY ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	290014	LIGHT, 1010L4-BLUE POINT
2	2	317048	NIGHT SPRAY BRKT
3	4	470118	1/4UNC X 3/4 HHSFB GR5 MC
4	4	470121	1/4-20UNC HEX FLG NUT SER MC GR5
5	2	520125	CUSH CLMP,#5, 5/16DX1/2W



BOOM FOAMER LINES 120' HYBRID				
DET	QTY	P/N	DESCRIPTION	
1	1	195958-784	AIR LIQUID TUBING 6-8mm	
2	1	195958-871	AIR LIQUID TUBING 6-8mm	
3	6	470118	1/4UNC X 3/4 HHSFB GR5 MC	
4	6	473832	1/4-20UNC HEX FLG NUT SER SS	
5	2	701317	FOAM NOZZLE BELL	
6	2	701327	FOAM NOZZLE SUB ASSY	
7	2	711112	3/8OD X 3/8NPT FEM CONNECT BRS	
8	2	711113	1/4OD X 1/8NPT FEM CONNECT BRS	
9	2	711114	8MM OD X 3/8 NPT MALE CONNECTOR, BRS	
10	2	711115	6MM OD X 1/8NPT MALE CONNECTOR, BRS	

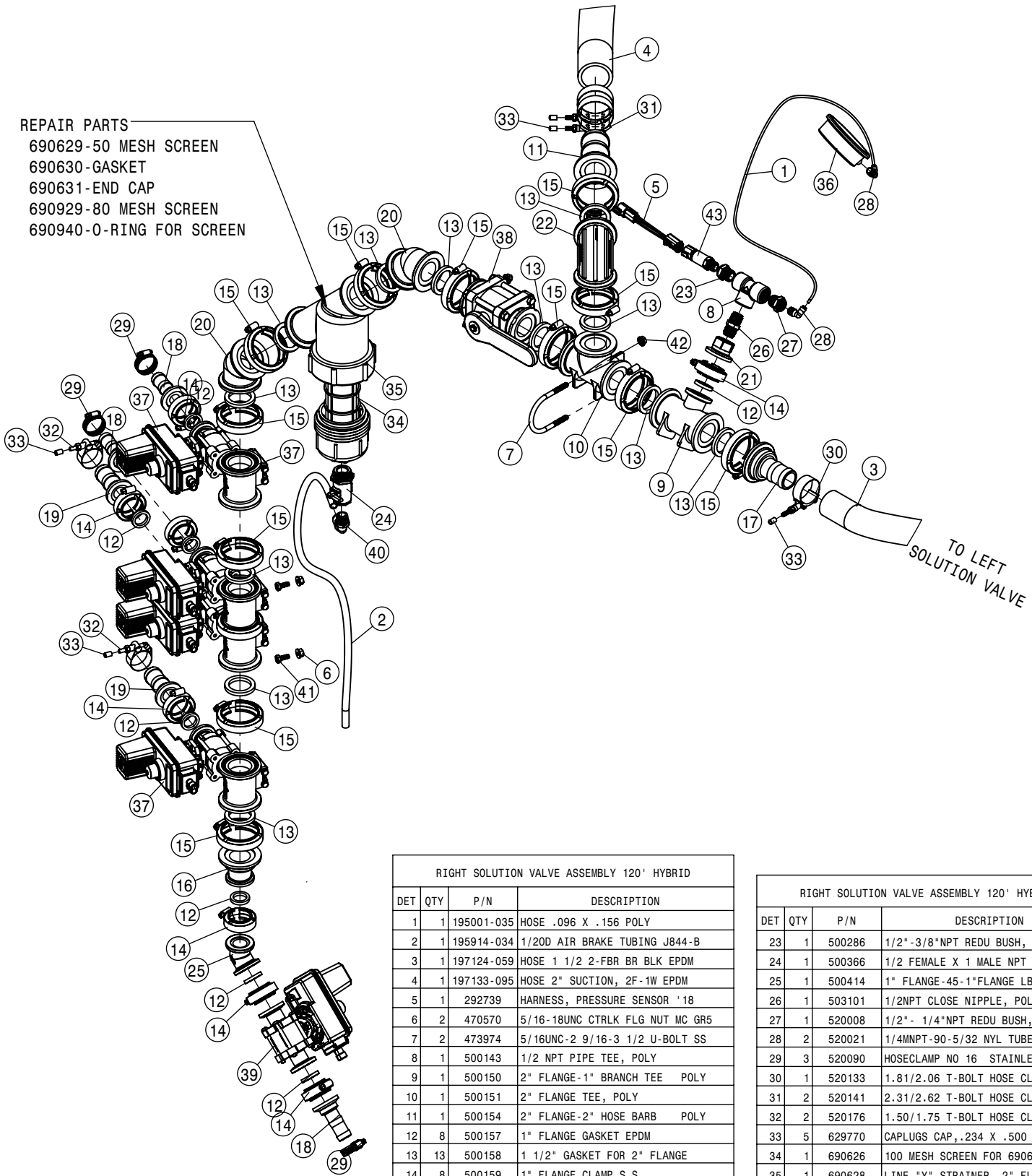


TO SOLUTION VALVES

CAM COUPLER ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	197133-095	HOSE 2" SUCTION, 2F-1W EPDM
2	1	470322	LANYARD 8" NYLON LOOP/LOOP
3	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
4	2	629770	CAPPLUGS CAP, .234 X .500 VINYL
5	1	690182	2" HOSE BARB CAMLOCK W/ LOCK
6	1	690392	PLUG FOR 2.00 FEMALE COUPLER

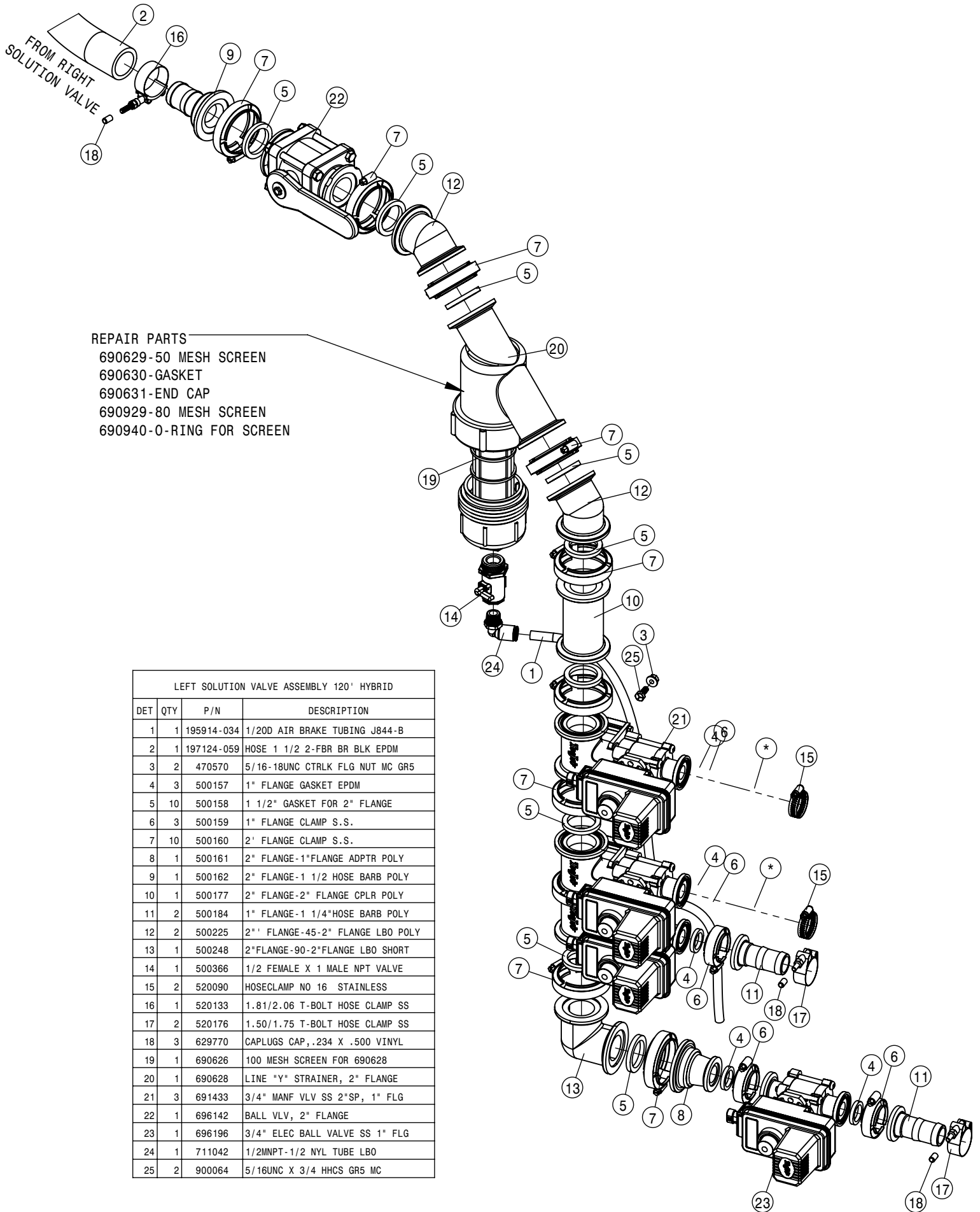
FROM QUICK ATTACH

- REPAIR PARTS
 690629-50 MESH SCREEN
 690630-GASKET
 690631-END CAP
 690929-80 MESH SCREEN
 690940-0-RING FOR SCREEN



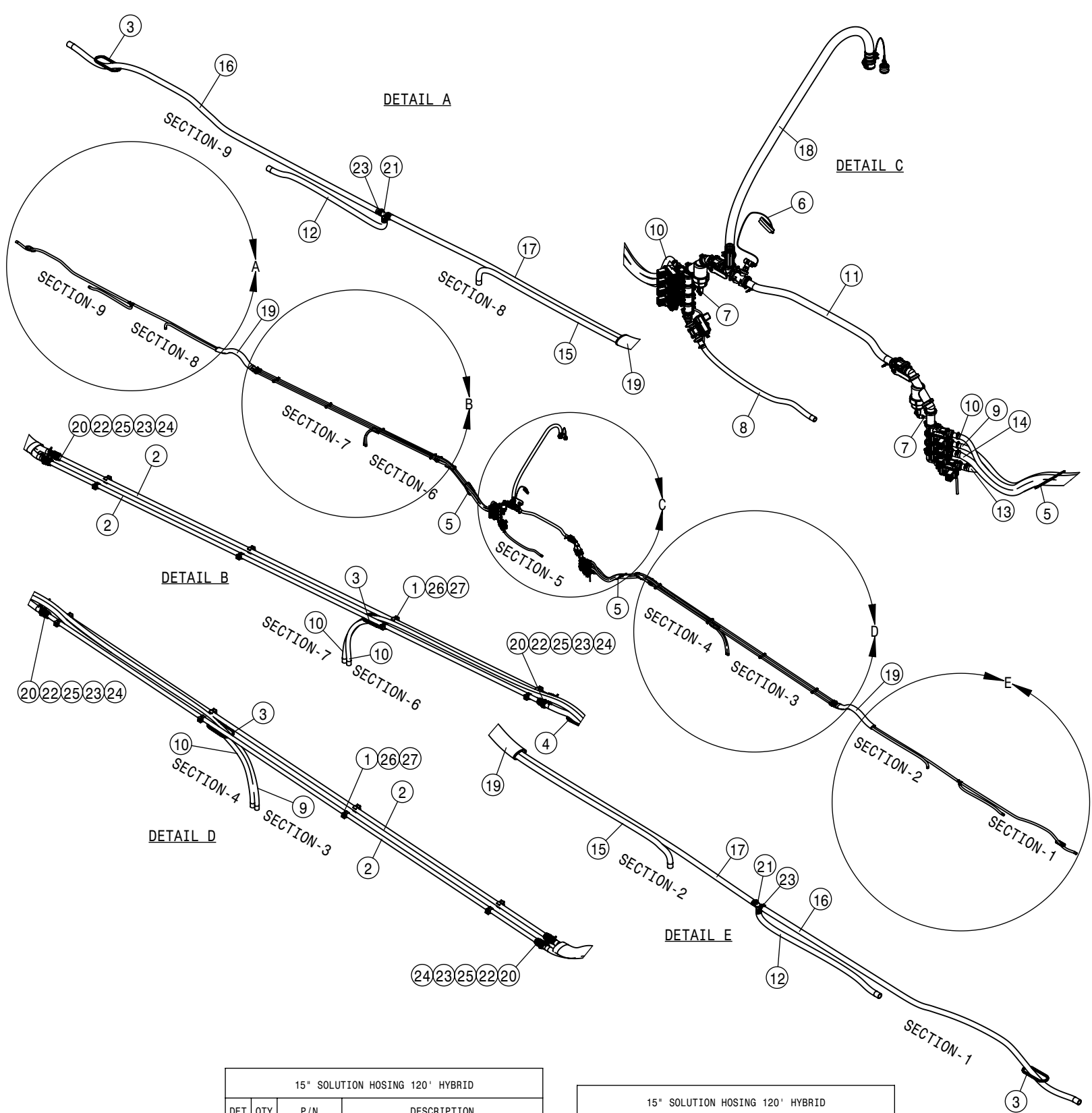
RIGHT SOLUTION VALVE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	195001-035	HOSE .096 X .156 POLY
2	1	195914-034	1/20D AIR BRAKE TUBING J844-B
3	1	197124-059	HOSE 1 1/2 2-FBR BR BLK EPDM
4	1	197133-095	HOSE 2" SUCTION, 2F-1W EPDM
5	1	292739	HARNES, PRESSURE SENSOR '18
6	2	470570	5/16-18UNC CTRLK FLG NUT MC GR5
7	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
8	1	500143	1/2 NPT PIPE TEE, POLY
9	1	500150	2" FLANGE-1" BRANCH TEE POLY
10	1	500151	2" FLANGE TEE, POLY
11	1	500154	2" FLANGE-2" HOSE BARB POLY
12	8	500157	1" FLANGE GASKET EPDM
13	13	500158	1 1/2" GASKET FOR 2" FLANGE
14	8	500159	1" FLANGE CLAMP S.S.
15	13	500160	2" FLANGE CLAMP S.S.
16	1	500161	2" FLANGE-1"FLANGE ADPTR POLY
17	1	500162	2" FLANGE-1 1/2 HOSE BARB POLY
18	3	500171	1" FLANGE-1" HOSE BARB POLY
19	2	500184	1" FLANGE-1 1/4"HOSE BARB POLY
20	2	500225	2" FLANGE-45-2" FLANGE LBO POLY
21	1	500238	1" FLANGE PLUG W/1/2"FNPT POLY
22	1	500266	2" FLANGE SWEEP 90

RIGHT SOLUTION VALVE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
23	1	500286	1/2"-3/8"NPT REDU BUSH, POLY
24	1	500366	1/2 FEMALE X 1 MALE NPT VALVE
25	1	500414	1" FLANGE-45-1"FLANGE LBO POLY
26	1	503101	1/2NPT CLOSE NIPPLE, POLY
27	1	520008	1/2"- 1/4"NPT REDU BUSH, POLY
28	2	520021	1/4MNPT-90-5/32 NYL TUBE LBO
29	3	520090	HOSECLAMP NO 16 STAINLESS
30	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
31	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
32	2	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
33	5	629770	CAPPLUGS CAP, .234 X .500 VINYL
34	1	690626	100 MESH SCREEN FOR 690628
35	1	690628	LINE "Y" STRAINER, 2" FLANGE
36	1	690832	PRESS GA GLYCERI 160 PSI
37	4	691433	3/4" MANF VLV SS 2"SP, 1" FLG
38	1	696142	BALL VLV, 2" FLANGE
39	1	696196	3/4" ELEC BALL VALVE SS 1" FLG
40	1	711042	1/2MNPT-1/2 NYL TUBE LBO
41	2	900064	5/16UNC X 3/4 HHCS GR5 MC
42	4	910119	5/16-18UNC HEX FLG NUT SER SS
43	1	AKK13435	PRESSURE TRANSDUCER, 0-200 PSI



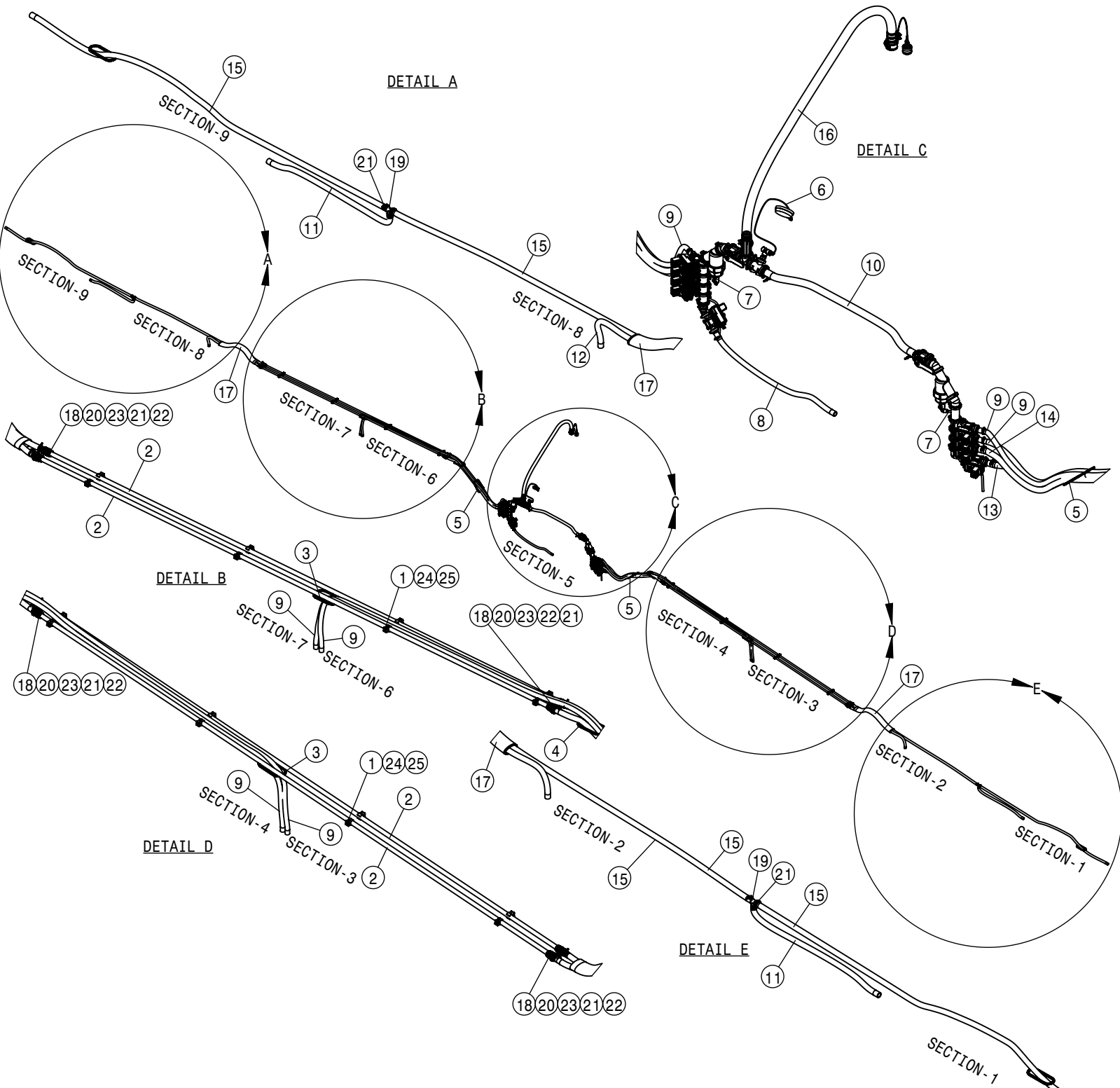
REPAIR PARTS
 690629-50 MESH SCREEN
 690630-GASKET
 690631-END CAP
 690929-80 MESH SCREEN
 690940-O-RING FOR SCREEN

LEFT SOLUTION VALVE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	195914-034	1/20D AIR BRAKE TUBING J844-B
2	1	197124-059	HOSE 1 1/2 2-FBR BR BLK EPDM
3	2	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	3	500157	1" FLANGE GASKET EPDM
5	10	500158	1 1/2" GASKET FOR 2" FLANGE
6	3	500159	1" FLANGE CLAMP S.S.
7	10	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	500177	2" FLANGE-2" FLANGE CPLR POLY
11	2	500184	1" FLANGE-1 1/4"HOSE BARB POLY
12	2	500225	2" FLANGE-45-2" FLANGE LBO POLY
13	1	500248	2"FLANGE-90-2"FLANGE LBO SHORT
14	1	500366	1/2 FEMALE X 1 MALE NPT VALVE
15	2	520090	HOSECLAMP NO 16 STAINLESS
16	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
17	2	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
18	3	629770	CAPPLUGS CAP, .234 X .500 VINYL
19	1	690626	100 MESH SCREEN FOR 690628
20	1	690628	LINE "Y" STRAINER, 2" FLANGE
21	3	691433	3/4" MANF VLV SS 2"SP, 1" FLG
22	1	696142	BALL VLV, 2" FLANGE
23	1	696196	3/4" ELEC BALL VALVE SS 1" FLG
24	1	711042	1/2MNPT-1/2 NYL TUBE LBO
25	2	900064	5/16UNC X 3/4 HHCS GR5 MC



15" SOLUTION HOISING 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	16	166096	1" PIPE CLIP
2	4	167746	1" SCH 5 HARD LINE 217"
3	4	193016-023	QUICKEDGE TRIM .060 TO .170
4	2	193016-025	QUICKEDGE TRIM .060 TO .170
5	2	193016-028	QUICKEDGE TRIM .060 TO .170
6	1	195001-035	HOSE .096 X .156 POLY
7	2	195914-034	1/20D AIR BRAKE TUBING J844-B
8	1	197116-053	HOSE 1IN 1-FBR BR BLK EPDM
9	1	197116-189	HOSE 1IN 1-FBR BR BLK EPDM
10	3	197116-191	HOSE 1IN 1-FBR BR BLK EPDM
11	1	197124-059	HOSE 1 1/2 2-FBR BR BLK EPDM
12	2	197126-057	HOSE 1 1/4" SUCTION,2F-1W EPDM
13	1	197126-078	HOSE 1 1/4" SUCTION,2F-1W EPDM
14	3	197126-081	HOSE 1 1/4" SUCTION,2F-1W EPDM

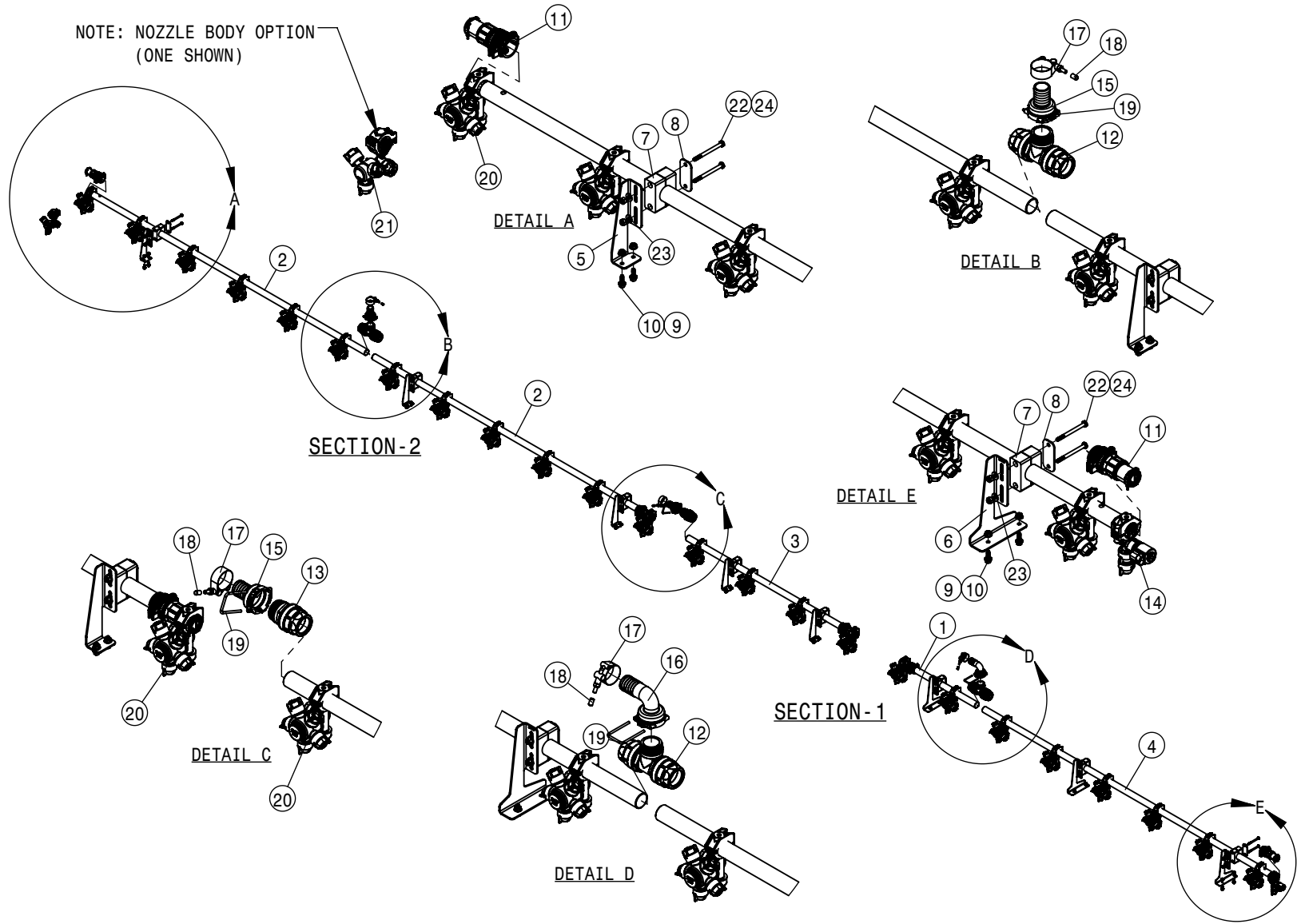
15" SOLUTION HOISING 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
15	2	197126-119	HOSE 1 1/4" SUCTION,2F-1W EPDM
16	2	197126-141	HOSE 1 1/4" SUCTION,2F-1W EPDM
17	2	197126-153	HOSE 1 1/4" SUCTION,2F-1W EPDM
18	1	197133-095	HOSE 2" SUCTION, 2F-1W EPDM
19	2	470310	SIDEWINDER SLEEVE,14.06 X 45"
20	8	500298	EASY FIT END T5, 1" PIPE
21	2	500347	Barbed Dark Gray PVC
22	8	500369	T5 TO 32 MM HB FEMALE
23	14	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
24	15	629770	CAPPLUGS CAP, .234 X .500 VINYL
25	8	737738	FORK,D.3 DIST.42 (737731)
26	16	900449	1/4UNC X 1 HHCS SS
27	16	910118	1/4-20UNC NYLOCK NUT SS



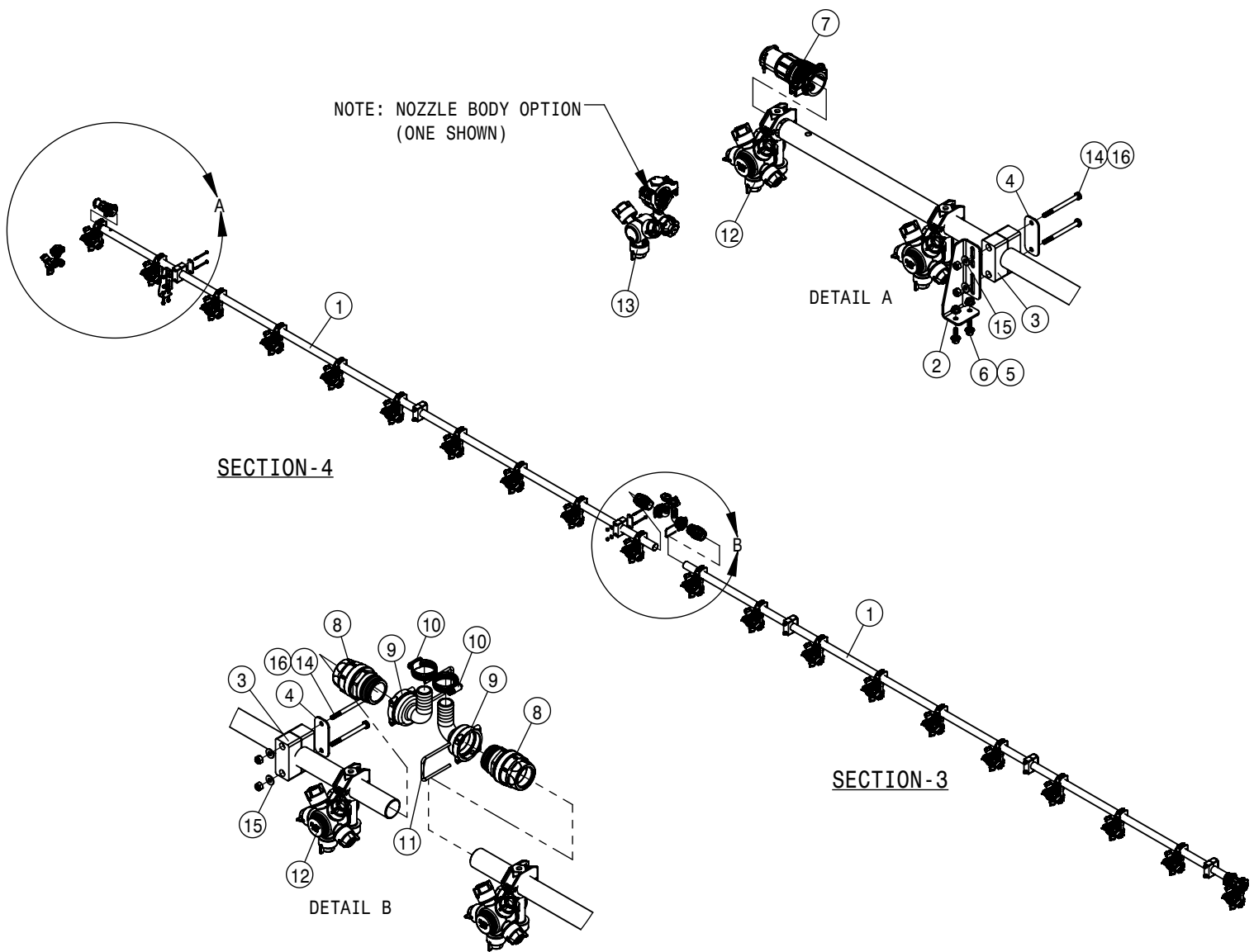
20" SOLUTION HOSE 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	16	166096	1" PIPE CLIP
2	4	167746	1" SCH 5 HARD LINE 217"
3	4	193016-023	QUICKEDGE TRIM .060 TO .170
4	2	193016-025	QUICKEDGE TRIM .060 TO .170
5	2	193016-028	QUICKEDGE TRIM .060 TO .170
6	1	195001-035	HOSE .096 X .156 POLY
7	2	195914-034	1/20D AIR BRAKE TUBING J844-B
8	1	197116-053	HOSE 1IN 1-FBR BR BLK EPDM
9	4	197116-206	HOSE 1IN 1-FBR BR BLK EPDM
10	1	197124-059	HOSE 1 1/2 2-FBR BR BLK EPDM
11	2	197126-057	HOSE 1 1/4" SUCTION, 2F-1W EPDM
12	2	197126-076	HOSE 1 1/4" SUCTION, 2F-1W EPDM
13	1	197126-078	HOSE 1 1/4" SUCTION, 2F-1W EPDM

20" SOLUTION HOSE 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
14	3	197126-081	HOSE 1 1/4" SUCTION, 2F-1W EPDM
15	4	197126-153	HOSE 1 1/4" SUCTION, 2F-1W EPDM
16	1	197133-095	HOSE 2" SUCTION, 2F-1W EPDM
17	2	470310	SIDEWINDER SLEEVE, 14.06 X 45"
18	8	500298	EASY FIT END T5, 1" PIPE
19	2	500347	Barbed Dark Gray PVC
20	8	500369	T5 TO 32 MM HB FEMALE
21	14	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
22	15	629770	CAPPLUGS CAP, .234 X .500 VINYL
23	8	737738	FORK, D.3 DIST.42 (737731)
24	16	900449	1/4UNC X 1 HHCS SS
25	16	910118	1/4-20UNC NYLOCK NUT SS

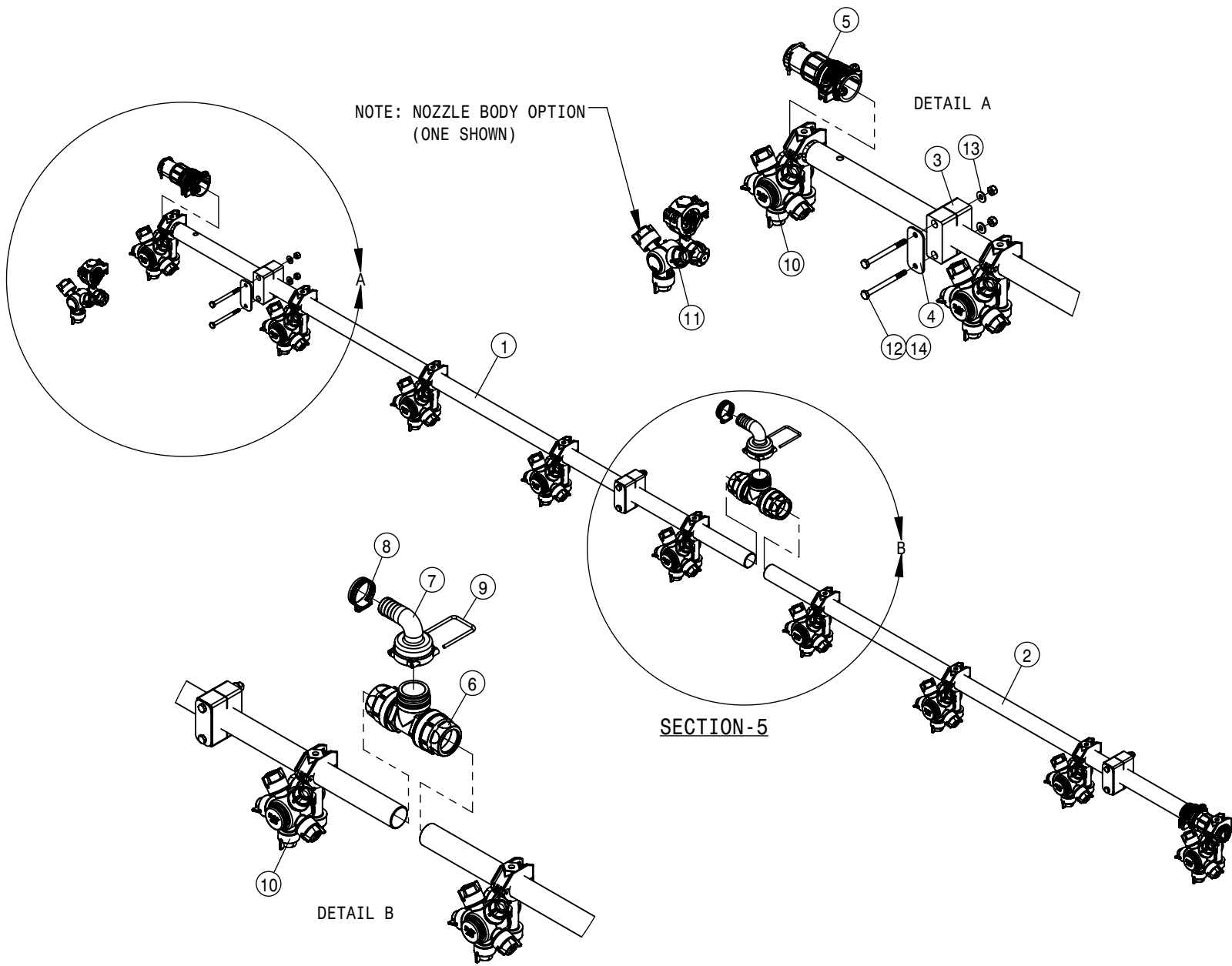
NOTE: NOZZLE BODY OPTION
(ONE SHOWN)



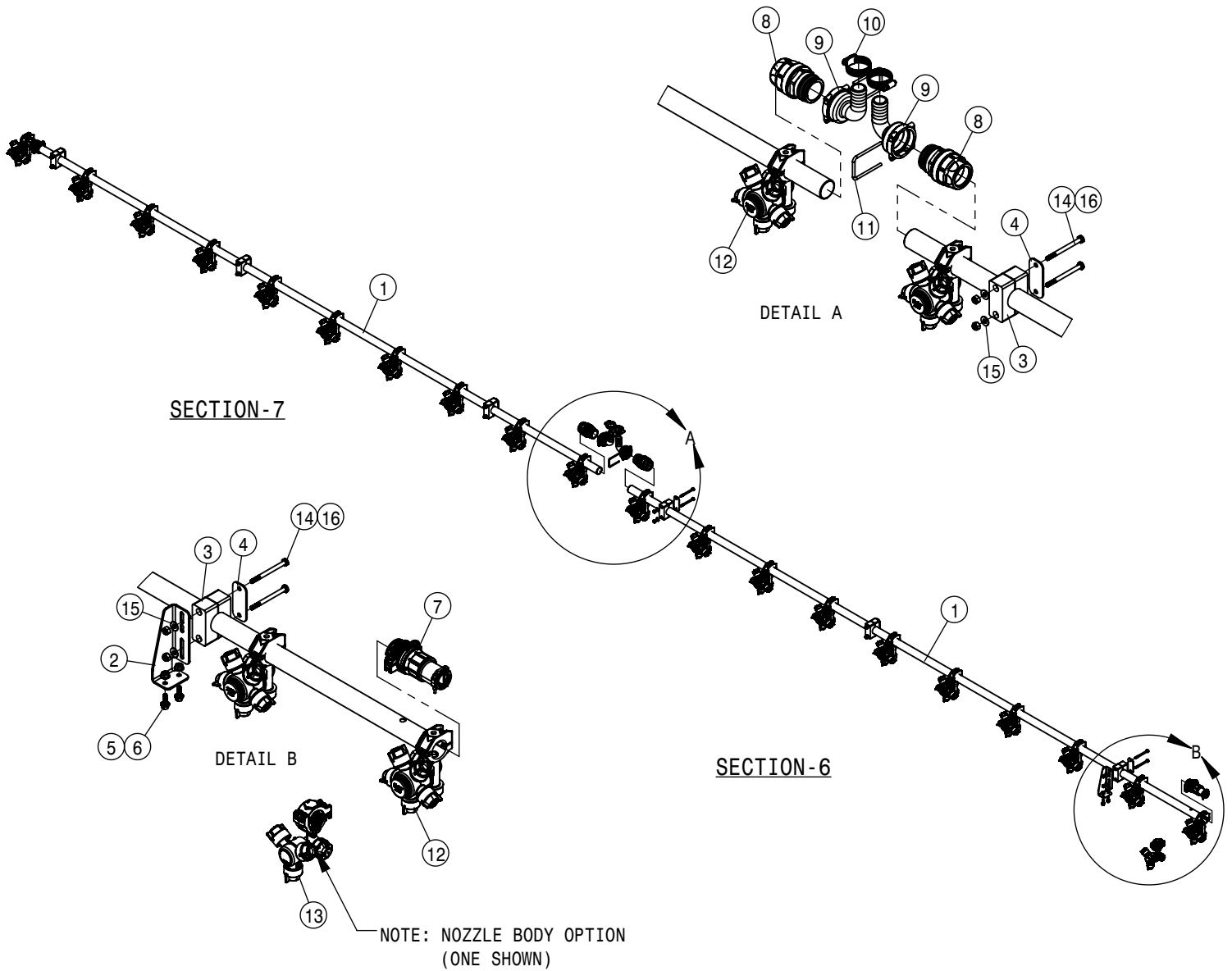
15" WET BOOM SPACING, SECTION 1-2 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167224	15" WET BOOM TUBE, 20.66 LG
2	2	167228	15" WET BOOM TUBE, 80.66 LG
3	1	167474	15" WET BOOM TUBE, 48.09 LG
4	1	167475	15" WET BOOM TUBE, 84.80 LG
5	5	167503	OTR SOLU BRKT
6	3	169438	HYBRID BM T3SLA SOLU BRKT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	16	473832	1/4-20UNC HEX FLG NUT SER SS
10	16	473834	1/4UNC X 3/4 HHSFB SS
11	5	500295	NOZZLE BODY END CAP
12	2	500296	EASY FIT TEE 1" PIPE
13	1	500298	EASY FIT END T5, 1" PIPE
14	1	500365	E-CHEMSAVER SINGLE NOZZLE 1IN
15	2	500369	T5 TO 32 MM HB FEMALE
16	1	500370	T5 TO 32MM HB 90 FEMALE
17	3	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
18	3	629770	CAPPLUGS CAP, .234 X .500 VINYL
19	3	737738	FORK,D.3 DIST.42 (737731)
20	24	737925	QUICK TJET 5 + 1-TIP BODY 1"
21	24	737929	QUICK TJET 3-TIP BODY 1"
22	16	900467	1/4UNC X 3 HHCS SS
23	16	910112	SAE FLAT WASHER 1/4 SS
24	16	910118	1/4-20UNC NYLOCK NUT SS



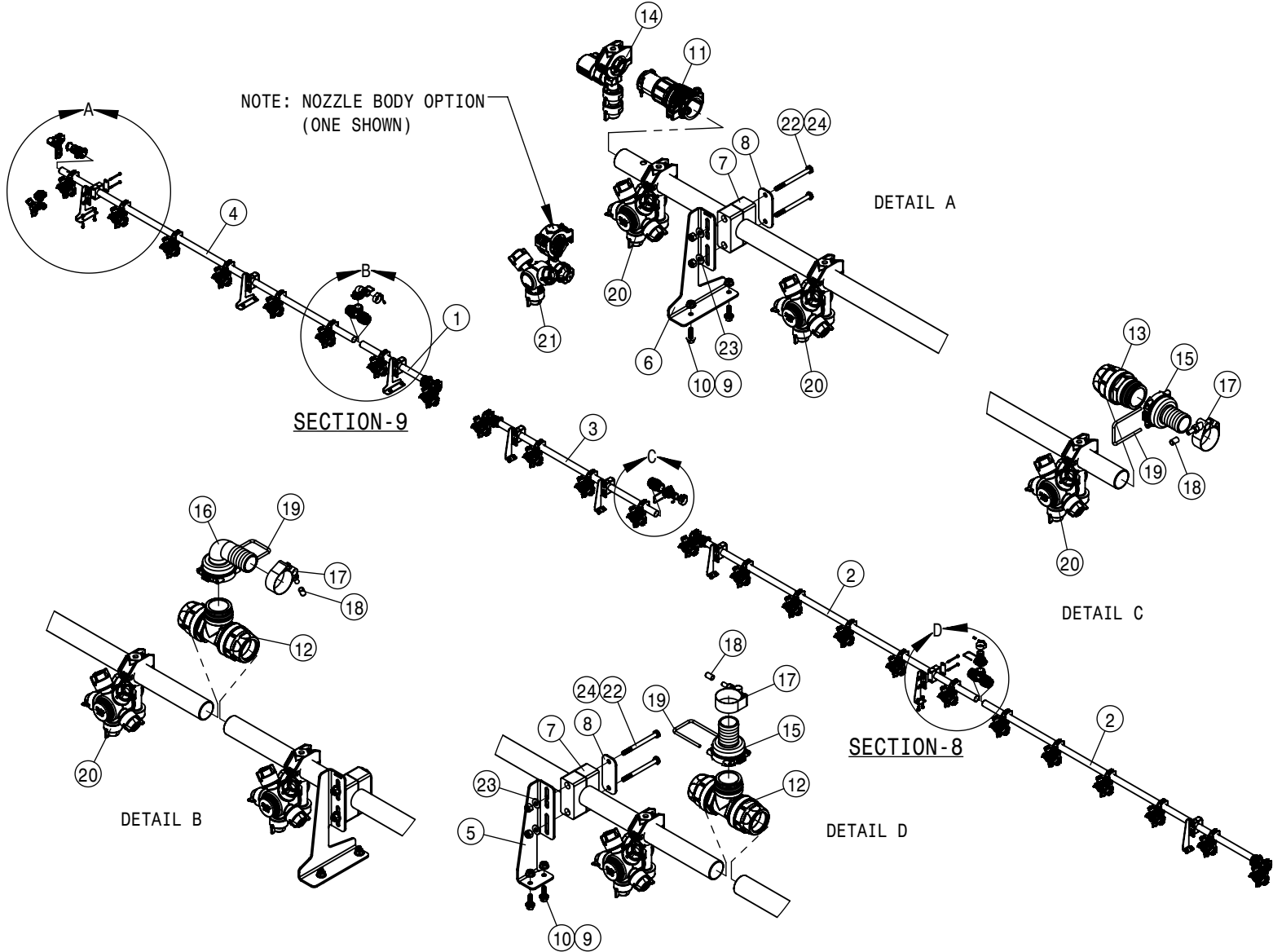
15" WET BOOM SPACING, SECTION 3-4 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	167473	15" WET BOOM TUBE, 138.00 LG
2	1	167585	INR SOLU BRKT
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	6	470376	COVER PLATE FOR 470375
5	2	473832	1/4-20UNC HEX FLG NUT SER SS
6	2	473834	1/4UNC X 3/4 HHSFB SS
7	2	500295	NOZZLE BODY END CAP
8	2	500298	EASY FIT END T5, 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK,D.3 DIST.42 (737731)
12	20	737925	QUICK TJET 5 + 1-TIP BODY 1"
13	20	737929	QUICK TJET 3-TIP BODY 1"
14	12	900467	1/4UNC X 3 HHCS SS
15	12	910112	SAE FLAT WASHER 1/4 SS
16	12	910118	1/4-20UNC NYLOCK NUT SS



15" WET BOOM SPACING, SECTION-5 120' HYBRID			
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	3	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	3	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500299	T5 TO 25MM HB 90
8	1	520090	HOSECLAMP NO 16 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	9	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	9	737929	QUICK TJET 3-TIP BODY 1"
12	6	900467	1/4UNC X 3 HHCS SS
13	6	910112	SAE FLAT WASHER 1/4 SS
14	6	910118	1/4-20UNC NYLOCK NUT SS

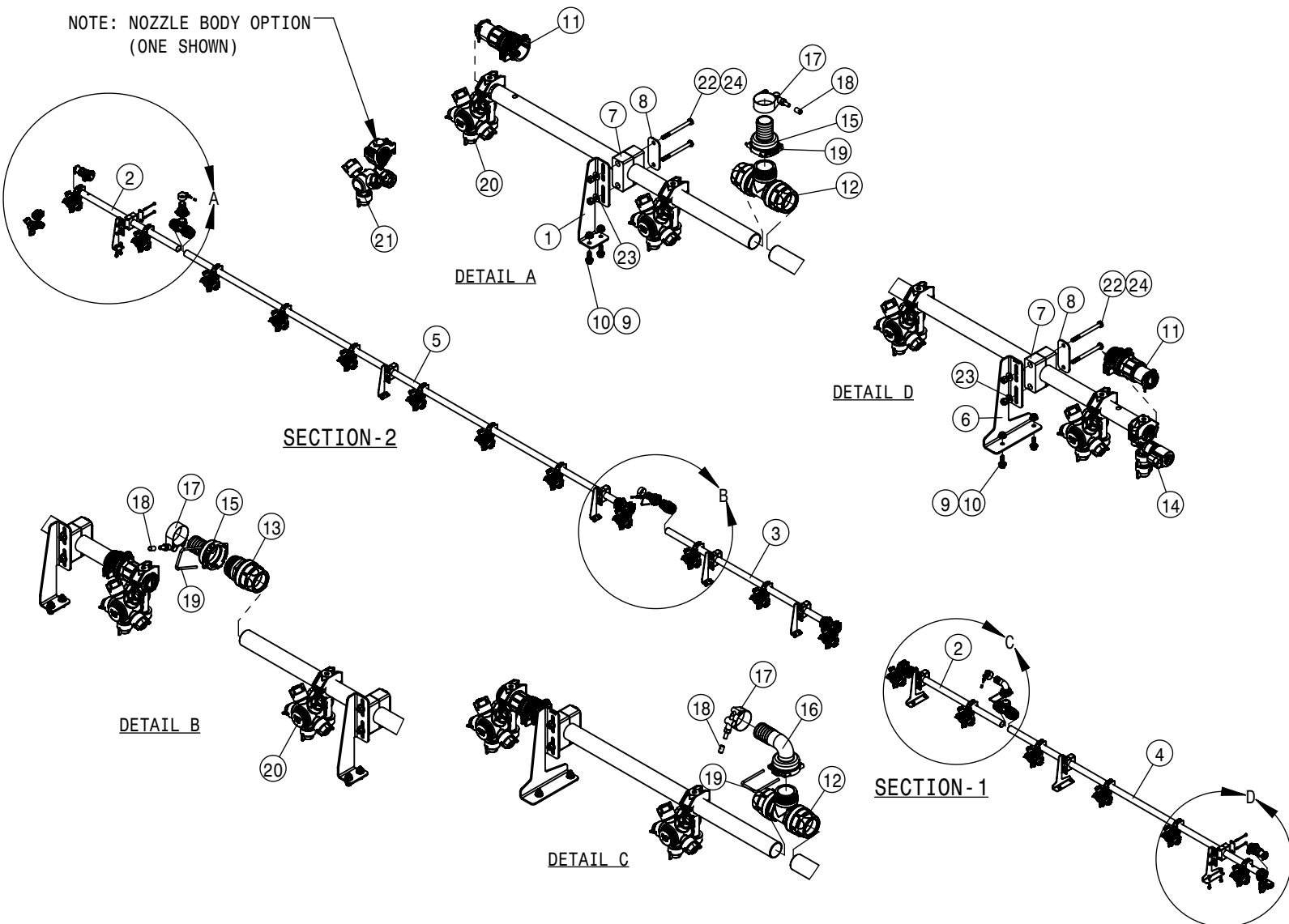


15" WET BOOM SPACING, SECTION 6-7 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	167473	15" WET BOOM TUBE, 138.00 LG
2	1	167585	INR SOLU BRKT
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	6	470376	COVER PLATE FOR 470375
5	2	473832	1/4-20UNC HEX FLG NUT SER SS
6	2	473834	1/4UNC X 3/4 HHSFB SS
7	2	500295	NOZZLE BODY END CAP
8	2	500298	EASY FIT END T5, 1" PIPE
9	2	500299	T5 TO 25MM HB 90
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK,D.3 DIST.42 (737731)
12	20	737925	QUICK TJET 5 + 1-TIP BODY 1"
13	20	737929	QUICK TJET 3-TIP BODY 1"
14	12	900467	1/4UNC X 3 HHCS SS
15	12	910112	SAE FLAT WASHER 1/4 SS
16	12	910118	1/4-20UNC NYLOCK NUT SS

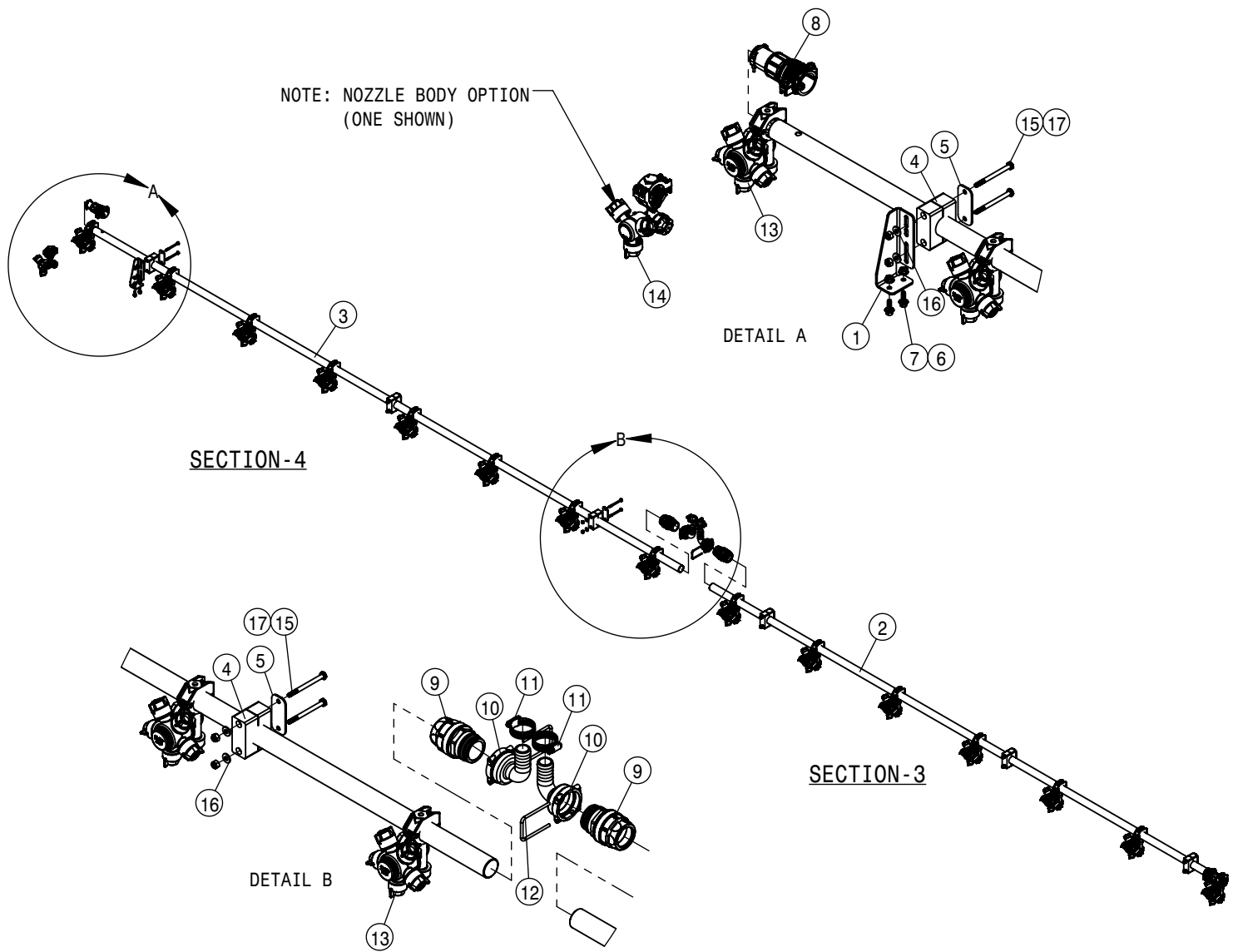


15" WET BOOM SPACING, SECTION 8-9 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167224	15" WET BOOM TUBE, 20.66 LG
2	2	167228	15" WET BOOM TUBE, 80.66 LG
3	1	167474	15" WET BOOM TUBE, 48.09 LG
4	1	167475	15" WET BOOM TUBE, 84.80 LG
5	5	167503	OTR SOLU BRKT
6	3	169438	HYBRID BM T3SLA SOLU BRKT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	16	473832	1/4-20UNC HEX FLG NUT SER SS
10	16	473834	1/4UNC X 3/4 HHSFB SS
11	5	500295	NOZZLE BODY END CAP
12	2	500296	EASY FIT TEE 1" PIPE
13	1	500298	EASY FIT END T5, 1" PIPE
14	1	500365	E-CHEMSAVER SINGLE NOZZLE 1IN
15	2	500369	T5 TO 32 MM HB FEMALE
16	1	500370	T5 TO 32MM HB 90 FEMALE
17	3	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
18	3	629770	CAPPLUGS CAP, .234 X .500 VINYL
19	3	737738	FORK,D.3 DIST.42 (737731)
20	24	737925	QUICK TJET 5 + 1-TIP BODY 1"
21	24	737929	QUICK TJET 3-TIP BODY 1"
22	16	900467	1/4UNC X 3 HHCS SS
23	16	910112	SAE FLAT WASHER 1/4 SS
24	16	910118	1/4-20UNC NYLOCK NUT SS

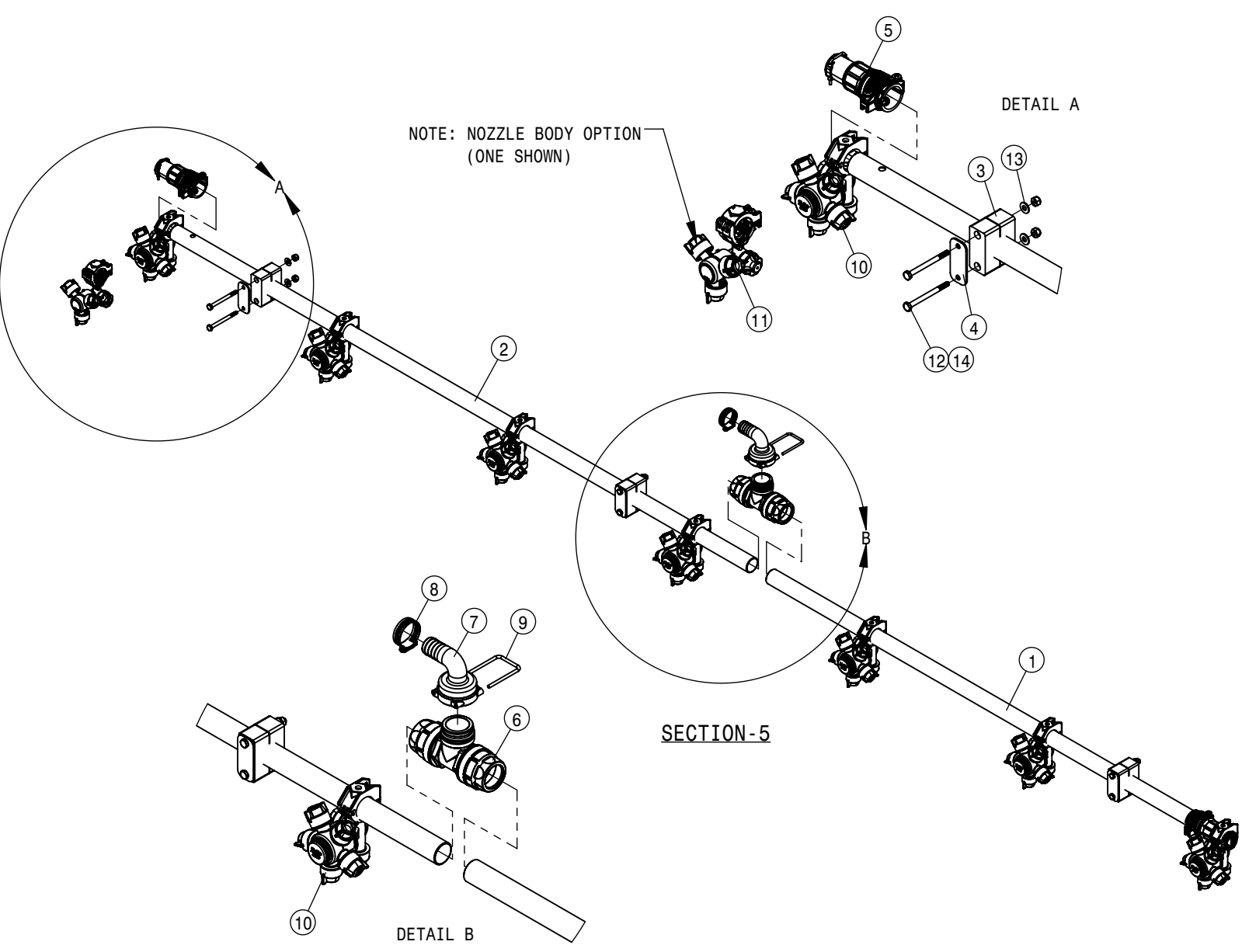
NOTE: NOZZLE BODY OPTION
(ONE SHOWN)



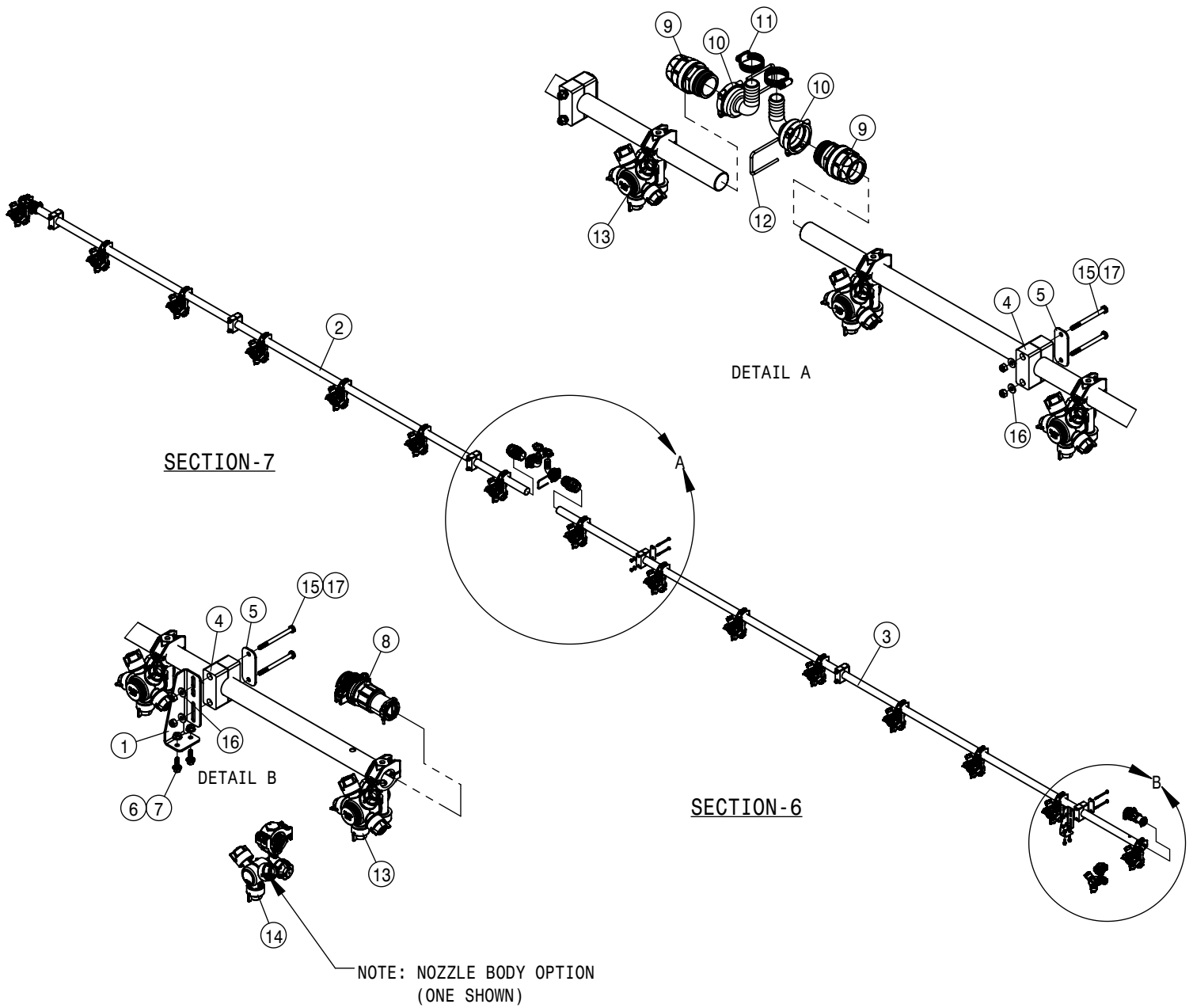
20" WET BOOM SPACING, SECTION 1-2 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	5	167503	OTR SOLU BRKT
2	2	167764	20" WET BOOM TUBE, 28.16 LG
3	1	167765	20" WET BOOM TUBE, 48.16 LG
4	1	167767	20" WET BOOM TUBE, 72.75 LG
5	1	167768	20" WET BOOM TUBE, 128.16 LG
6	3	169438	HYBRID BM T3SLA SOLU BRKT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	16	473832	1/4-20UNC HEX FLG NUT SER SS
10	16	473834	1/4UNC X 3/4 HHSFB SS
11	5	500295	NOZZLE BODY END CAP
12	2	500296	EASY FIT TEE 1" PIPE
13	1	500298	EASY FIT END T5, 1" PIPE
14	1	500365	E-CHEMSAVER SINGLE NOZZLE 1IN
15	2	500369	T5 TO 32 MM HB FEMALE
16	1	500370	T5 TO 32MM HB 90 FEMALE
17	3	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
18	3	629770	CAPPLUGS CAP, .234 X .500 VINYL
19	3	737738	FORK,D.3 DIST.42 (737731)
20	18	737925	QUICK TJET 5 + 1-TIP BODY 1"
21	18	737929	QUICK TJET 3-TIP BODY 1"
22	16	900467	1/4UNC X 3 HHCS SS
23	16	910112	SAE FLAT WASHER 1/4 SS
24	16	910118	1/4-20UNC NYLOCK NUT SS



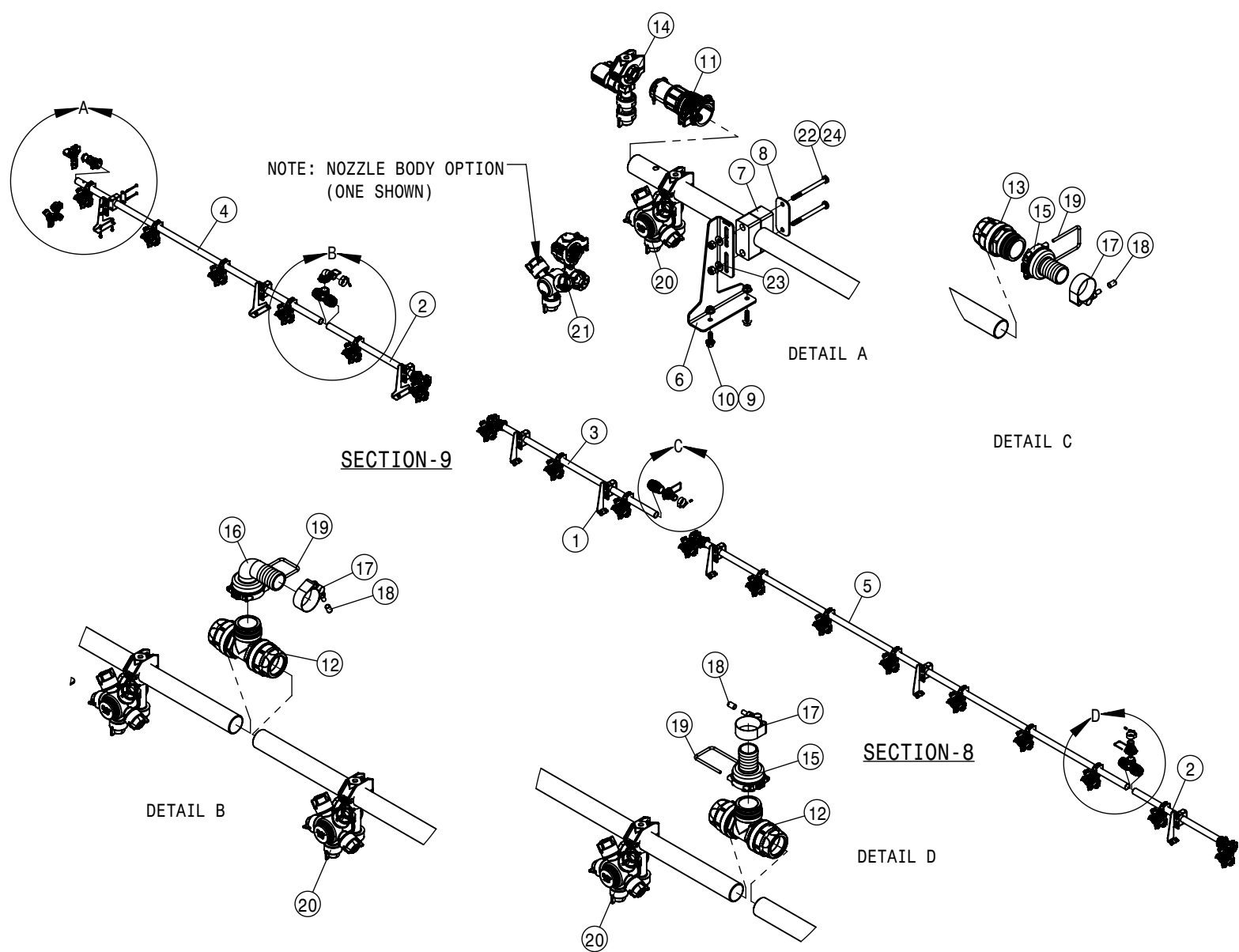
20" WET BOOM SPACING, SECTION 3-4 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167585	INR SOLU BRKT
2	1	167769	20" WET BOOM TUBE, 125.46 LG
3	1	167770	20" WET BOOM TUBE, 145.46 LG
4	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	6	470376	COVER PLATE FOR 470375
6	2	473832	1/4-20UNC HEX FLG NUT SER SS
7	2	473834	1/4UNC X 3/4 HHSFB SS
8	2	500295	NOZZLE BODY END CAP
9	2	500298	EASY FIT END T5, 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	737925	QUICK TJET 5 + 1-TIP BODY 1"
14	15	737929	QUICK TJET 3-TIP BODY 1"
15	12	900467	1/4UNC X 3 HHCs SS
16	12	910112	SAE FLAT WASHER 1/4 SS
17	12	910118	1/4-20UNC NYLOCK NUT SS



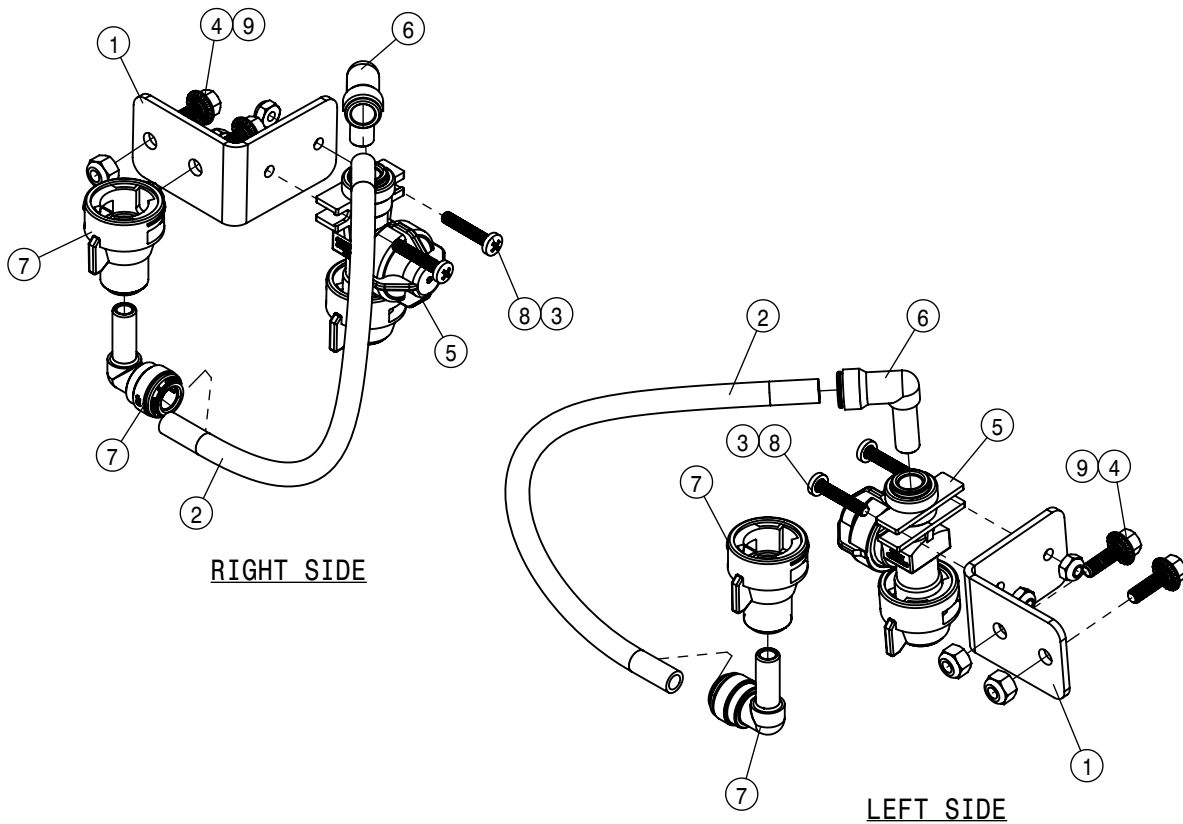
20" WET BOOM SPACING, SECTION-5 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	167237	20" WET BOOM TUBE, 65.66 LG
3	3	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	3	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500299	T5 TO 25MM HB 90
8	1	520090	HOSECLAMP NO 16 STAINLESS
9	1	737738	FORK,D.3 DIST.42 (737731)
10	7	737925	QUICK TJET 5 + 1-TIP BODY 1"
11	7	737929	QUICK TJET 3-TIP BODY 1"
12	6	900467	1/4UNC X 3 HHCS SS
13	6	910112	SAE FLAT WASHER 1/4 SS
14	6	910118	1/4-20UNC NYLOCK NUT SS



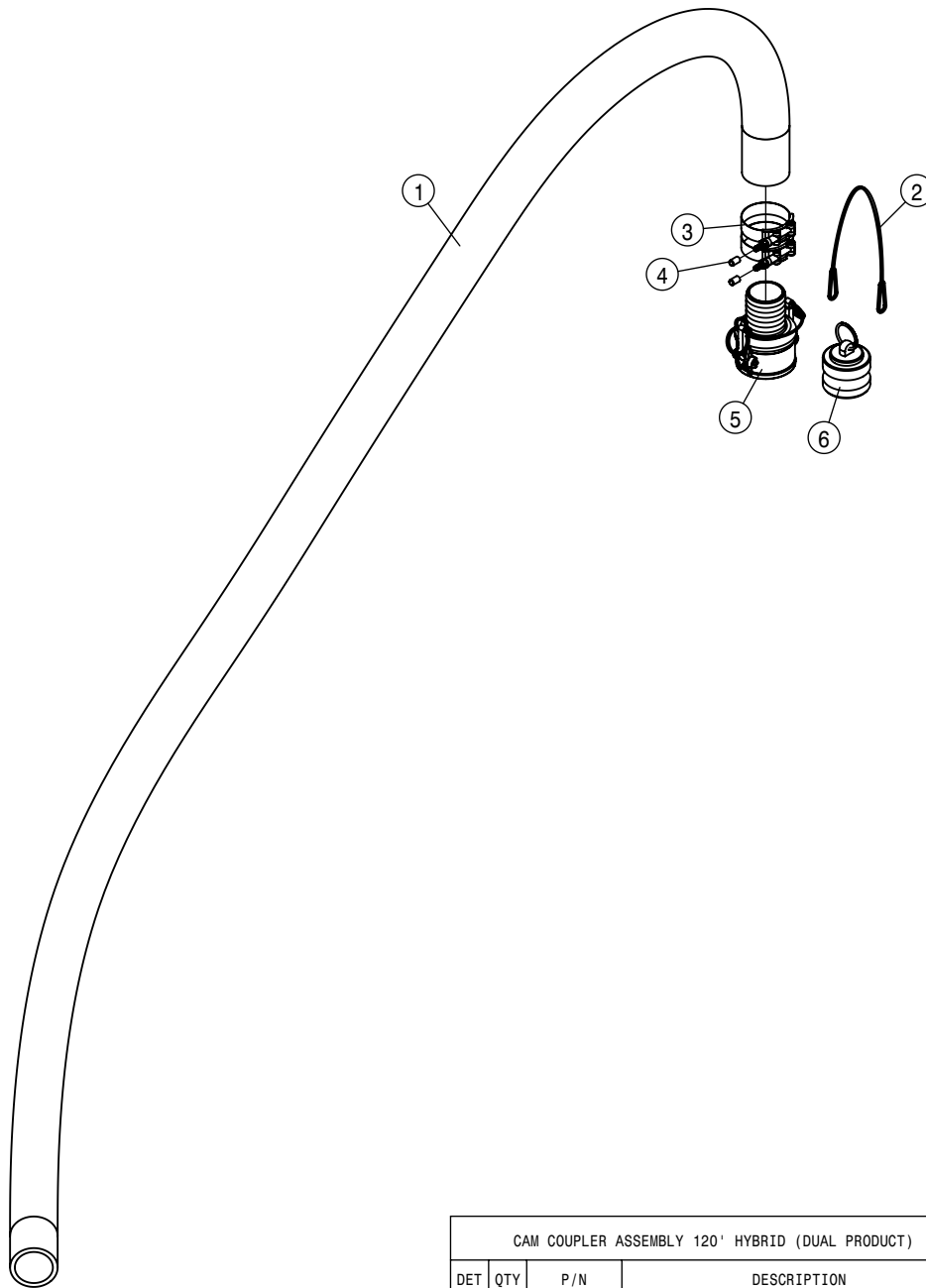
20" WET BOOM SPACING, SECTION 6-7 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	1	167585	INR SOLU BRKT
2	1	167769	20" WET BOOM TUBE, 125.46 LG
3	1	167770	20" WET BOOM TUBE, 145.46 LG
4	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	6	470376	COVER PLATE FOR 470375
6	2	473832	1/4-20UNC HEX FLG NUT SER SS
7	2	473834	1/4UNC X 3/4 HHSFB SS
8	2	500295	NOZZLE BODY END CAP
9	2	500298	EASY FIT END T5, 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	737925	QUICK TJET 5 + 1-TIP BODY 1"
14	15	737929	QUICK TJET 3-TIP BODY 1"
15	12	900467	1/4UNC X 3 HHCS SS
16	12	910112	SAE FLAT WASHER 1/4 SS
17	12	910118	1/4-20UNC NYLOCK NUT SS



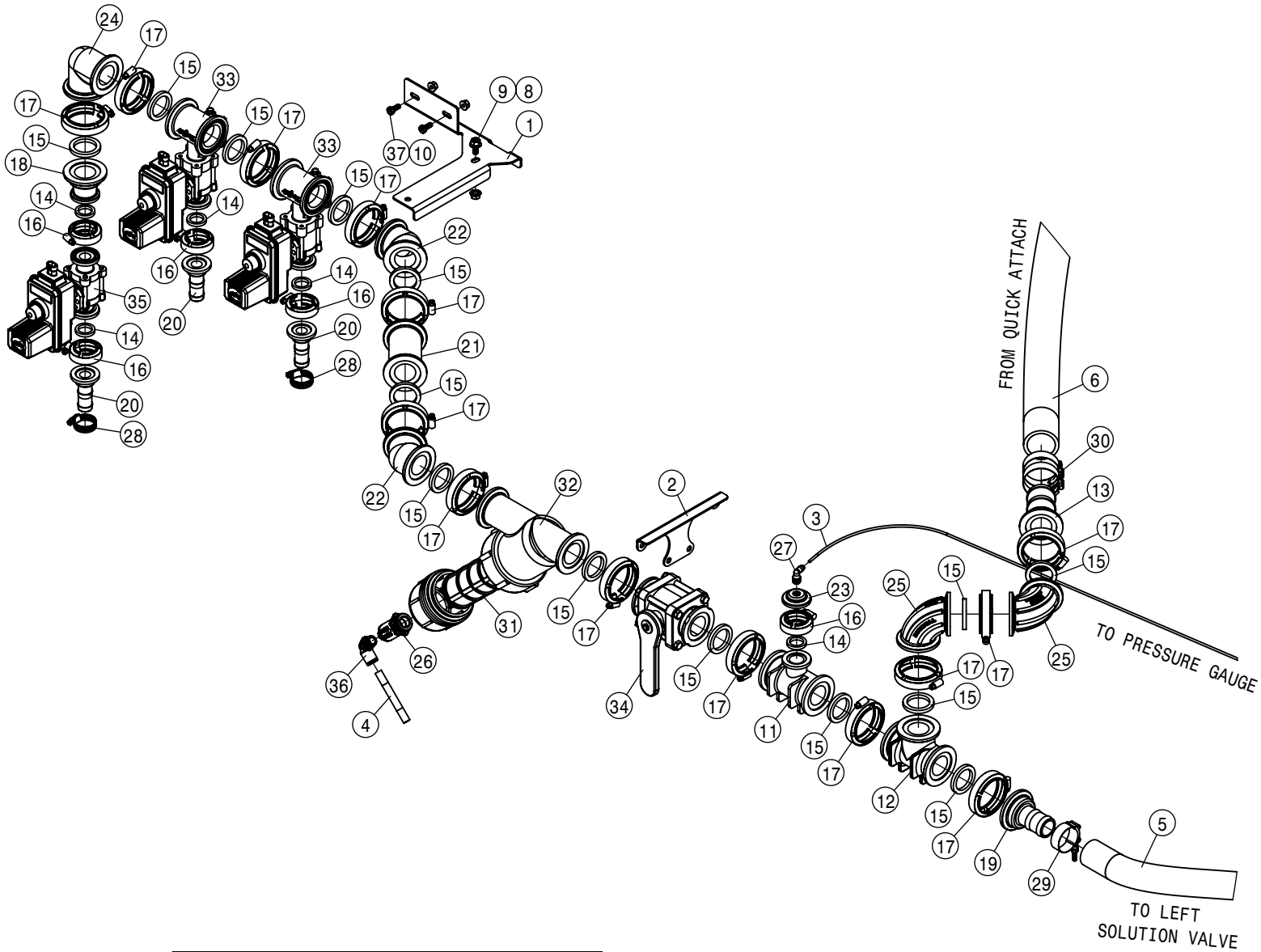
20" WET BOOM SPACING, SECTION 8-9 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	5	167503	OTR SOLU BRKT
2	2	167764	20" WET BOOM TUBE, 28.16 LG
3	1	167765	20" WET BOOM TUBE, 48.16 LG
4	1	167767	20" WET BOOM TUBE, 72.75 LG
5	1	167768	20" WET BOOM TUBE, 128.16 LG
6	3	169438	HYBRID BM T3SLA SOLU BRKT
7	8	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
8	8	470376	COVER PLATE FOR 470375
9	16	473832	1/4-20UNC HEX FLG NUT SER SS
10	16	473834	1/4UNC X 3/4 HHSFB SS
11	5	500295	NOZZLE BODY END CAP
12	2	500296	EASY FIT TEE 1" PIPE
13	1	500298	EASY FIT END T5, 1" PIPE
14	1	500365	E-CHEMSAVER SINGLE NOZZLE 1IN
15	2	500369	T5 TO 32 MM HB FEMALE
16	1	500370	T5 TO 32MM HB 90 FEMALE
17	3	520176	1.50/1.75 T-BOLT HOSE CLAMP SS
18	3	629770	CAPPLUGS CAP, .234 X .500 VINYL
19	3	737738	FORK,D.3 DIST.42 (737731)
20	18	737925	QUICK TJET 5 + 1-TIP BODY 1"
21	18	737929	QUICK TJET 3-TIP BODY 1"
22	16	900467	1/4UNC X 3 HHCS SS
23	16	910112	SAE FLAT WASHER 1/4 SS
24	16	910118	1/4-20UNC NYLOCK NUT SS



FENCE ROW NOZZLE ASSEMBLY 120' HYBRID			
DET	QTY	P/N	DESCRIPTION
1	2	167438	FENCE ROW BRACKET DTS
2	2	195915-010	3/80D AIR BRAKE TUBING J844-B
3	4	473004	#10-32UNF NYLOCK NUT MC GR5
4	4	473834	1/4UNC X 3/4 HHSFB SS
5	2	500334	NOZZLE-3/80D PUSH TO CONNECT
6	2	711066	3/8 NYL PUSH IN ELBOW 90 DEG
7	2	711099	90 DEG SWIVEL CAP
8	4	903894	10-32 X 1 PHIL RDHD MACH SCR
9	4	910118	1/4-20UNC NYLOCK NUT SS

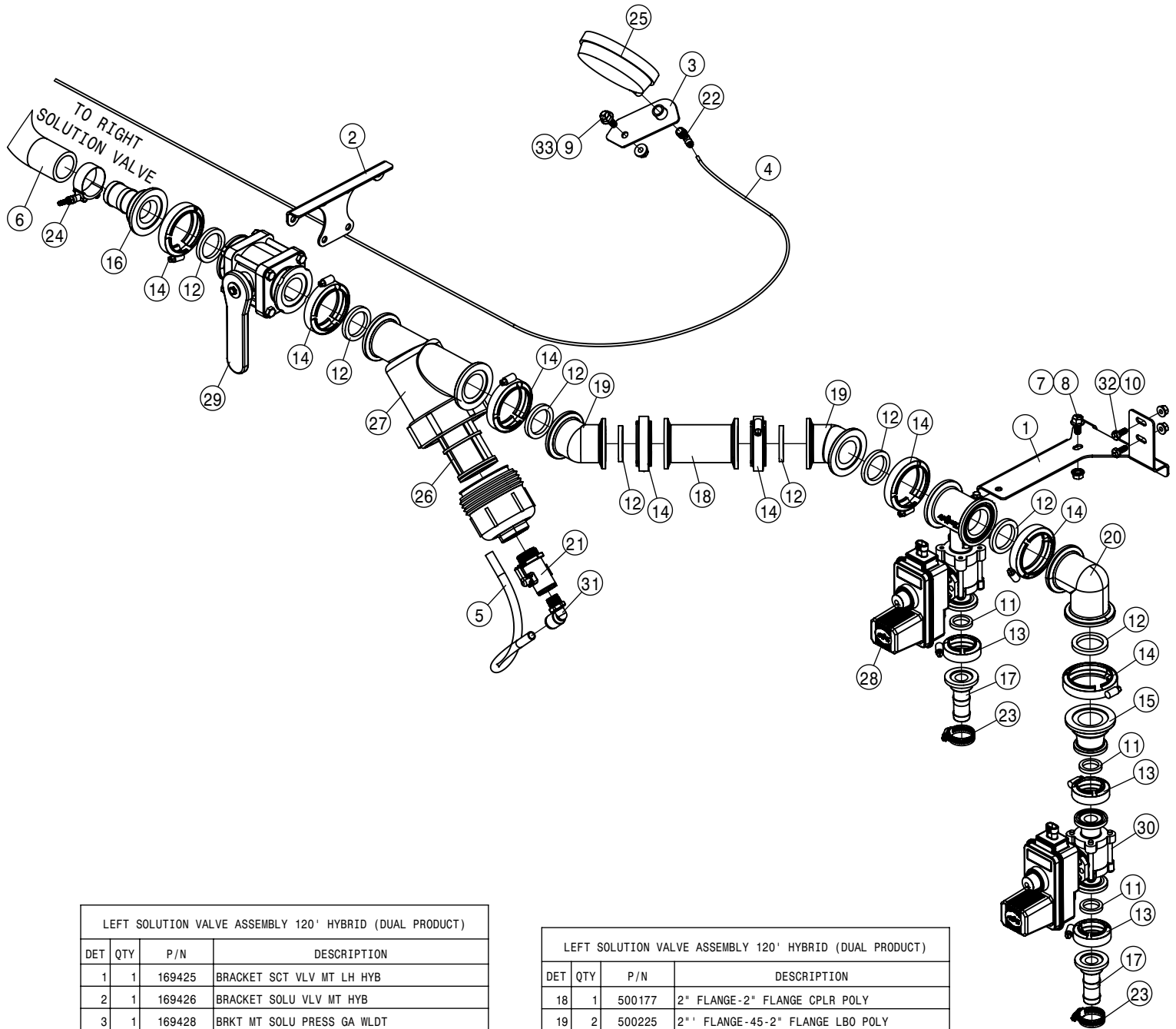


CAM COUPLER ASSEMBLY 120' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	197133-097	HOSE 2" SUCTION, 2F-1W EPDM
2	1	470322	LANYARD 8" NYLON LOOP/LOOP
3	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
4	2	629770	CAPPLUGS CAP, .234 X .500 VINYL
5	1	690182	2" HOSE BARB CAMLOCK W/ LOCK
6	1	690392	PLUG FOR 2.00 FEMALE COUPLER



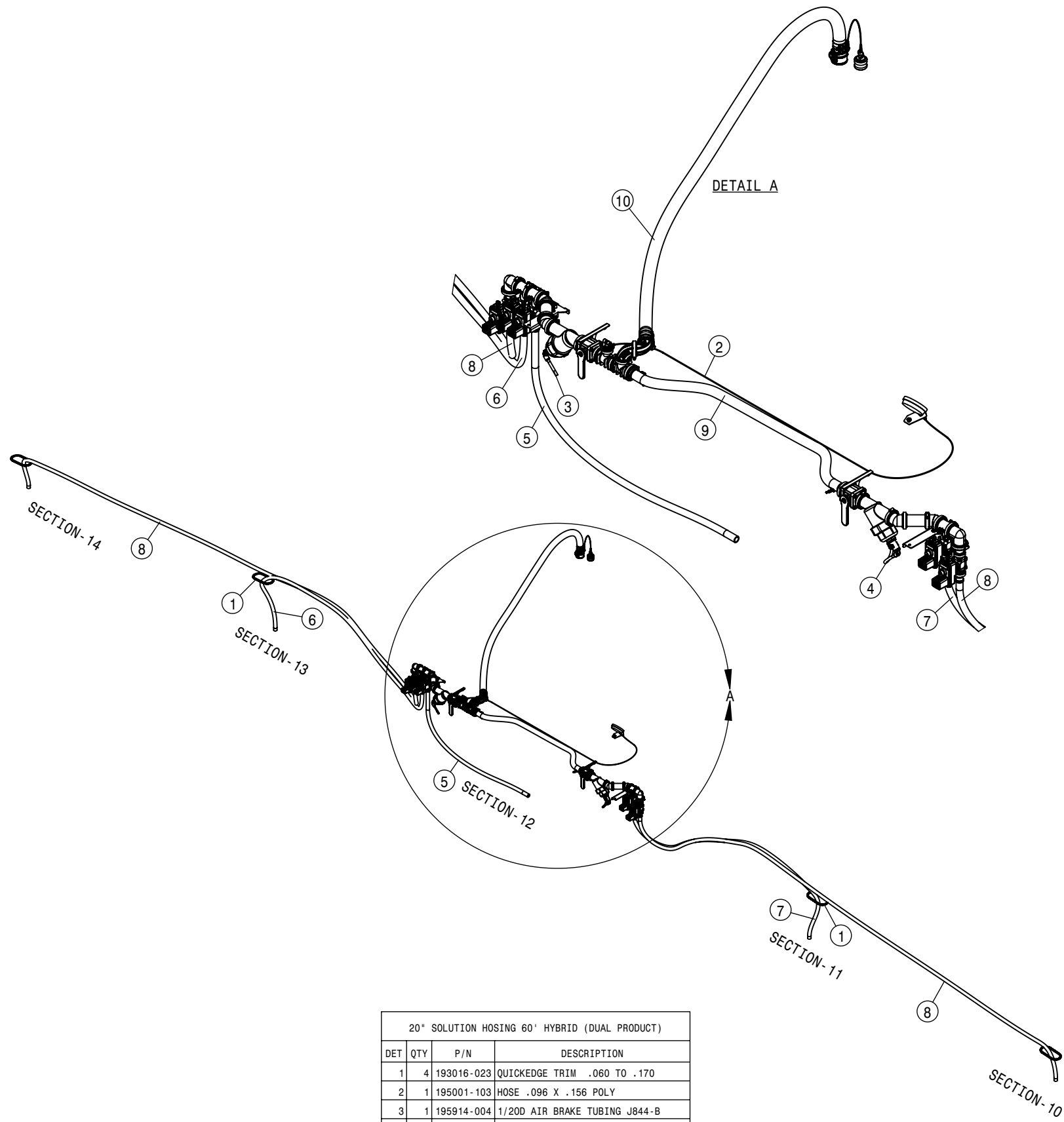
RIGHT SOLUTION VALVE ASSEMBLY 120' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	169424	BRACKET SCT VLV MT RH HYB
2	1	169426	BRACKET SOLU VLV MT HYB
3	1	195001-103	HOSE .096 X .156 POLY
4	1	195914-004	1/20D AIR BRAKE TUBING J844-B
5	1	197124-064	HOSE 1 1/2 2-FBR BR BLK EPDM
6	1	197133-097	HOSE 2" SUCTION, 2F-1W EPDM
NS	1	294371	HARNES, DUEL PRODUCT BOOM
8	1	470087	3/8-16UNC HEX FLG NUT SER MC GR5
9	1	470409	3/8UNC X 3/4 HHSFB GR5 MC
10	2	470570	5/16-18UNC CTRLK FLG NUT MC GR5
11	1	500150	2" FLANGE-1" BRANCH TEE POLY
12	1	500151	2" FLANGE TEE, POLY
13	1	500154	2" FLANGE-2" HOSE BARB POLY
14	5	500157	1" FLANGE GASKET EPDM
15	14	500158	1 1/2" GASKET FOR 2" FLANGE
16	5	500159	1" FLANGE CLAMP S.S.
17	14	500160	2" FLANGE CLAMP S.S.
18	1	500161	2" FLANGE-1"FLANGE ADPTR POLY
19	1	500162	2" FLANGE-1 1/2 HOSE BARB POLY

RIGHT SOLUTION VALVE ASSEMBLY 120' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
20	3	500171	1" FLANGE-1" HOSE BARB POLY
21	1	500177	2" FLANGE-2" FLANGE CPLR POLY
22	2	500225	2" FLANGE-45-2" FLANGE LBO POLY
23	1	500226	1" FLANGE PLUG W/1/4"FNPT POLY
24	1	500248	2"FLANGE-90-2"FLANGE LBO SHORT
25	2	500266	2" FLANGE SWEEP 90
26	1	500366	1/2 FEMALE X 1 MALE NPT VALVE
27	1	520021	1/4MNPT-90-5/32 NYL TUBE LBO
28	2	520090	HOSECLAMP NO 16 STAINLESS
29	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
30	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
31	1	690626	100 MESH SCREEN FOR 690628
32	1	690628	LINE "Y" STRAINER, 2" FLANGE
33	2	691433	3/4" MANF VLV SS 2"SP, 1" FLG
34	1	696142	BALL VLV, 2" FLANGE
35	1	696196	3/4" ELEC BALL VALVE SS 1" FLG
36	1	711042	1/2MNPT-1/2 NYL TUBE LBO
37	2	900064	5/16UNC X 3/4 HHCS GR5 MC



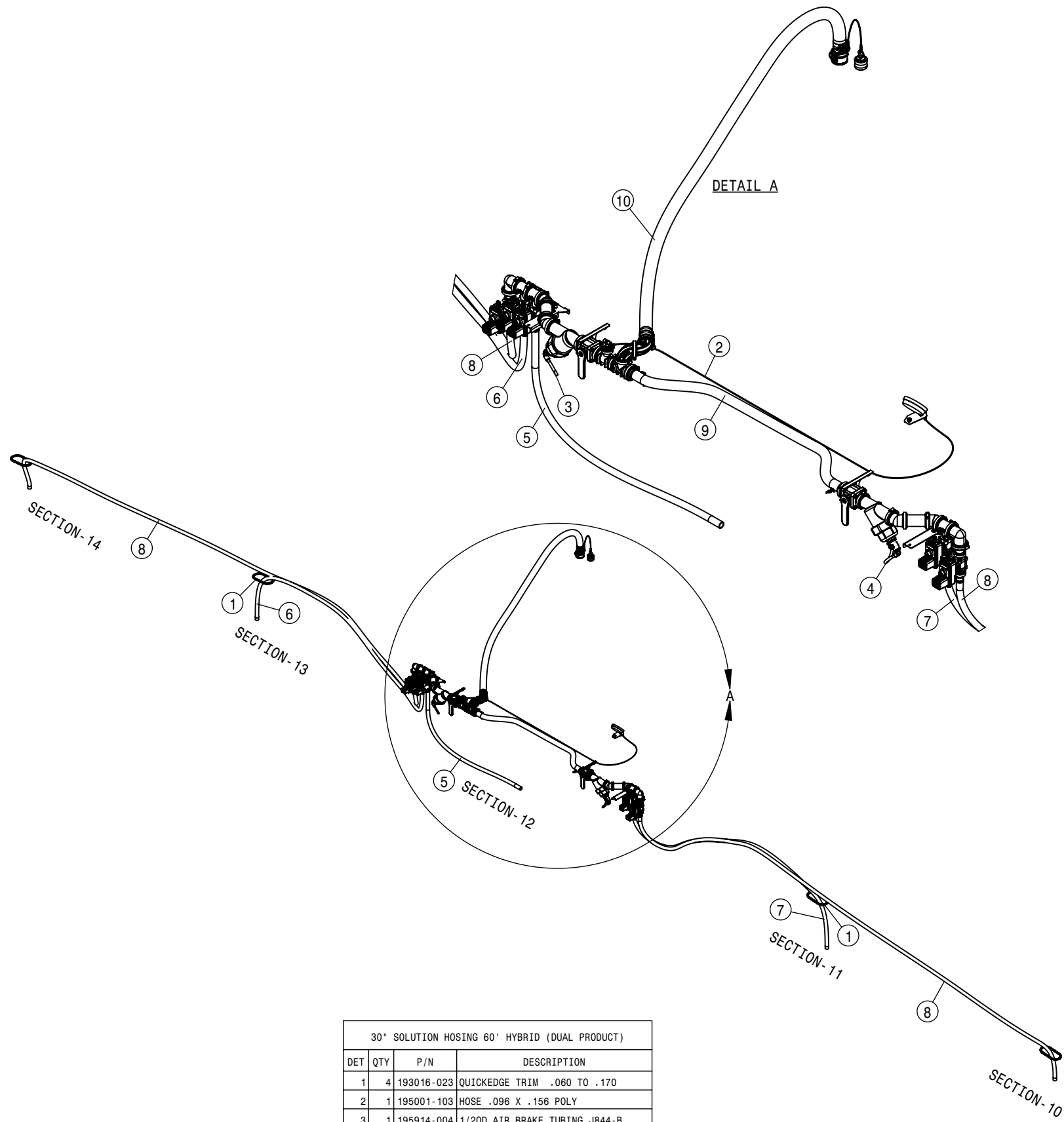
LEFT SOLUTION VALVE ASSEMBLY 120' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	169425	BRACKET SCT VLV MT LH HYB
2	1	169426	BRACKET SOLU VLV MT HYB
3	1	169428	BRKT MT SOLU PRESS GA WLDT
4	1	195001-103	HOSE .096 X .156 POLY
5	1	195914-020	1/20D AIR BRAKE TUBING J844-B
6	1	197124-064	HOSE 1 1/2 2-FBR BR BLK EPDM
7	1	470087	3/8-16UNC HEX FLG NUT SER MC GR5
8	1	470409	3/8UNC X 3/4 HHSFB GR5 MC
9	1	470460	3/8UNC X 1 HHSFB GR5 MC
10	2	470570	5/16-18UNC CTRLK FLG NUT MC GR5
11	3	500157	1" FLANGE GASKET EPDM
12	8	500158	1 1/2" GASKET FOR 2" FLANGE
13	3	500159	1" FLANGE CLAMP S.S.
14	8	500160	2" FLANGE CLAMP S.S.
15	1	500161	2" FLANGE-1"FLANGE ADPTR POLY
16	1	500162	2" FLANGE-1 1/2 HOSE BARB POLY
17	2	500171	1" FLANGE-1" HOSE BARB POLY

LEFT SOLUTION VALVE ASSEMBLY 120' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
18	1	500177	2" FLANGE-2" FLANGE CPLR POLY
19	2	500225	2" FLANGE-45-2" FLANGE LBO POLY
20	1	500248	2"FLANGE-90-2"FLANGE LBO SHORT
21	1	500366	1/2 FEMALE X 1 MALE NPT VALVE
22	1	520021	1/4MNPT-90-5/32 NYL TUBE LBO
23	2	520090	HOSECLAMP NO 16 STAINLESS
24	1	520133	1.81/2.06 T-BOLT HOSE CLAMP SS
25	1	690359	PRESSURE GA GLYCERI 100 PSI
26	1	690626	100 MESH SCREEN FOR 690628
27	1	690628	LINE "Y" STRAINER, 2" FLANGE
28	1	691433	3/4" MANF VLV SS 2"SP, 1" FLG
29	1	696142	BALL VLV, 2" FLANGE
30	1	696196	3/4" ELEC BALL VALVE SS 1" FLG
31	1	711042	1/2MNPT-1/2 NYL TUBE LBO
32	2	900064	5/16UNC X 3/4 HHCS GR5 MC
33	1	910106	3/8-16UNC CTRLK FLG NUT MC GR5

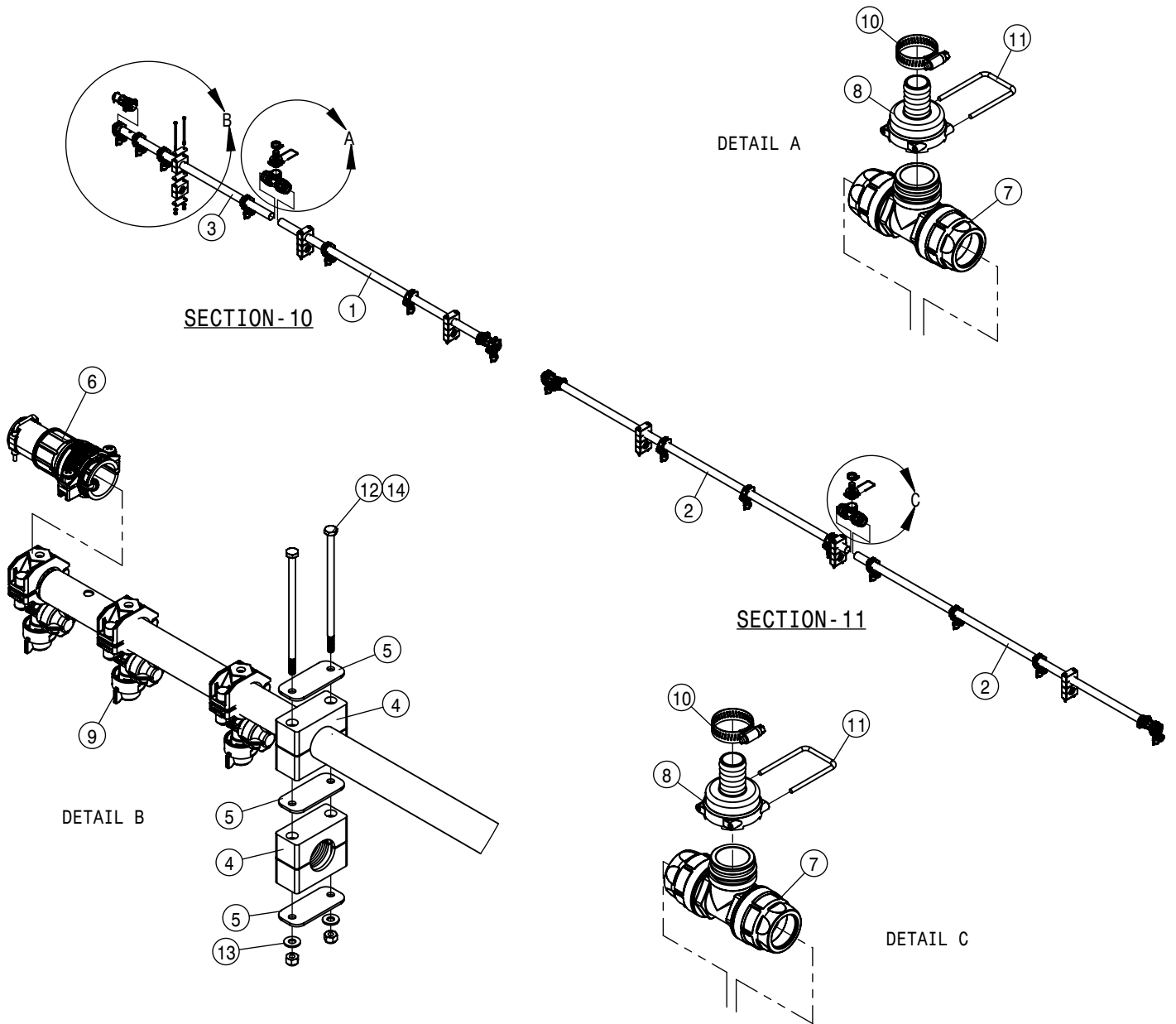


20" SOLUTION HOISING 60' HYBRID (DUAL PRODUCT)

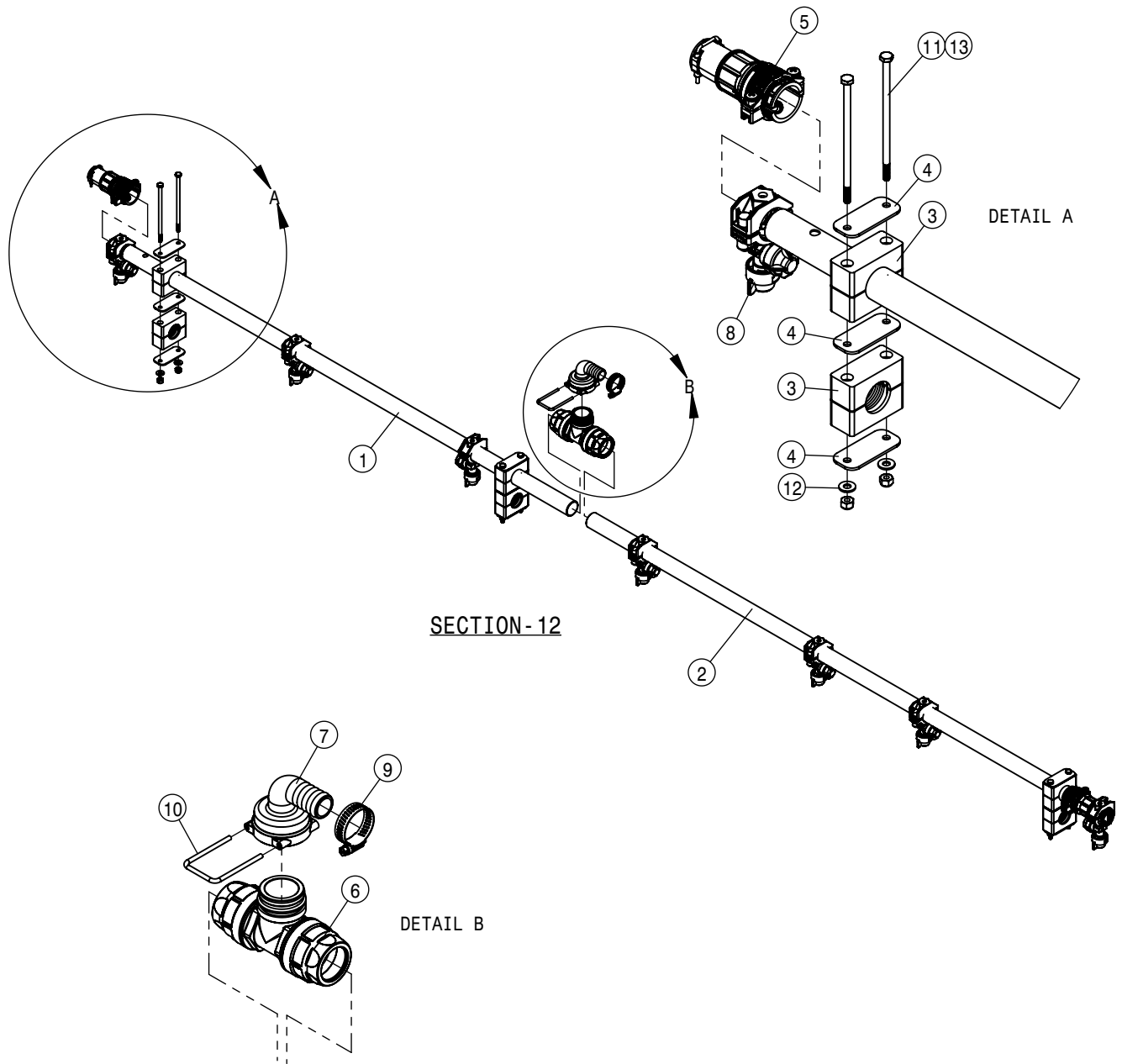
DET	QTY	P/N	DESCRIPTION
1	4	193016-023	QUICKEDGE TRIM .060 TO .170
2	1	195001-103	HOSE .096 X .156 POLY
3	1	195914-004	1/20D AIR BRAKE TUBING J844-B
4	1	195914-020	1/20D AIR BRAKE TUBING J844-B
5	1	197116-077	HOSE 1IN 1-FBR BR BLK EPDM
6	1	197116-139	HOSE 1IN 1-FBR BR BLK EPDM
7	1	197116-142	HOSE 1IN 1-FBR BR BLK EPDM
8	2	197116-256	HOSE 1IN 1-FBR BR BLK EPDM
9	1	197124-064	HOSE 1 1/2 2-FBR BR BLK EPDM
10	1	197133-097	HOSE 2" SUCTION, 2F-1W EPDM



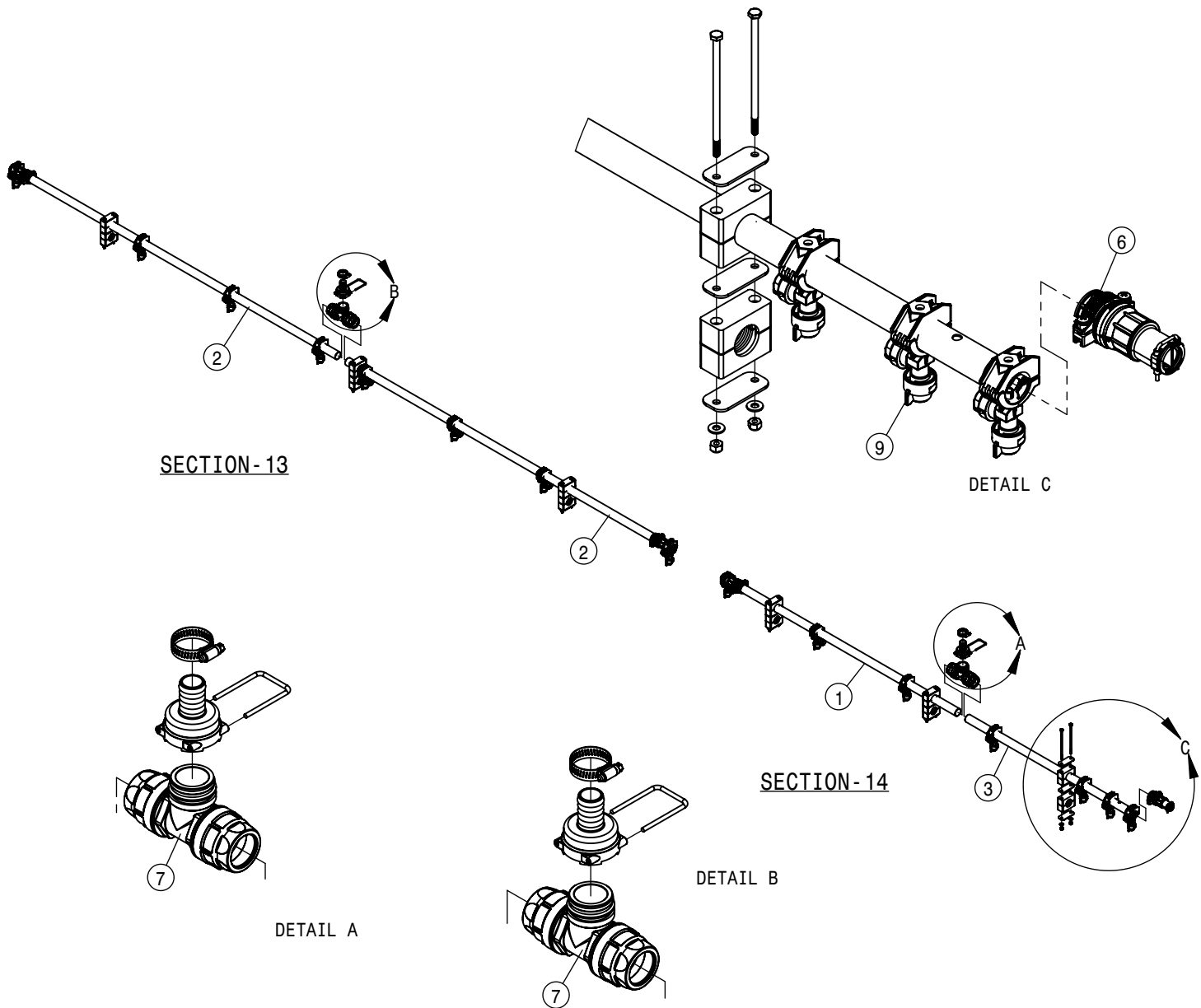
30" SOLUTION HOISING 60' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	4	193016-023	QUICKEDGE TRIM .060 TO .170
2	1	195001-103	HOSE .096 X .156 POLY
3	1	195914-004	1/20D AIR BRAKE TUBING J844-B
4	1	195914-020	1/20D AIR BRAKE TUBING J844-B
5	1	197116-072	HOSE 1IN 1-FBR BR BLK EPDM
6	1	197116-139	HOSE 1IN 1-FBR BR BLK EPDM
7	1	197116-142	HOSE 1IN 1-FBR BR BLK EPDM
8	2	197116-256	HOSE 1IN 1-FBR BR BLK EPDM
9	1	197124-064	HOSE 1 1/2 2-FBR BR BLK EPDM
10	1	197133-097	HOSE 2" SUCTION, 2F-1W EPDM



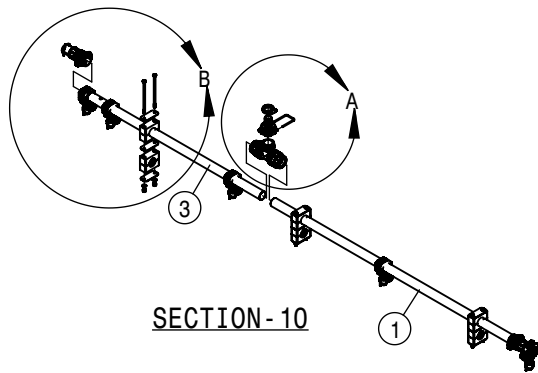
20" WET BOOM SPACING,SECTION 10-11 60' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	2	169156	20" WET BM TUBE, 71.17 LG
3	1	169475	20" WET BM TUBE, 35.92
4	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	18	470376	COVER PLATE FOR 470375
6	4	500295	NOZZLE BODY END CAP
7	2	500296	EASY FIT TEE 1" PIPE
8	2	500307	T5 FEMALE TO 25MM HB
9	15	500363	QUICK TJET SINGLE BODY, 1"
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK,D.3 DIST.42 (737731)
12	12	900028	1/4UNC X 5 1/2 HHCS SS
13	12	910112	SAE FLAT WASHER 1/4 SS
14	12	910118	1/4-20UNC NYLOCK NUT SS



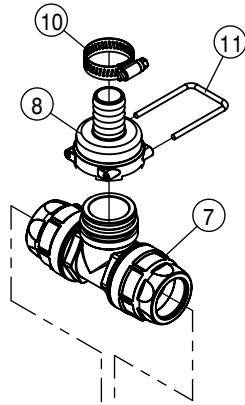
20" WET BOOM SPACING, SECTION-12 60' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	1	169473	20" WET BM TUBE, 57.17 LG
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	9	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500299	T5 TO 25MM HB 90
8	7	500363	QUICK TJET SINGLE BODY, 1"
9	1	520090	HOSECLAMP NO 16 STAINLESS
10	1	737738	FORK,D.3 DIST.42 (737731)
11	6	900028	1/4UNC X 5 1/2 HHCS SS
12	6	910112	SAE FLAT WASHER 1/4 SS
13	6	910118	1/4-20UNC NYLOCK NUT SS



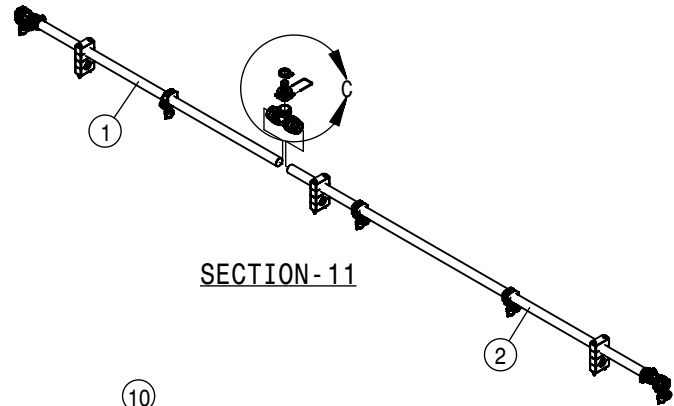
20" WET BOOM SPACING, SECTION 13-14 60' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	1	167231	20" WET BOOM TUBE, 50.66 LG
2	2	169156	20" WET BM TUBE, 71.17 LG
3	1	169475	20" WET BM TUBE, 35.92
4	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	18	470376	COVER PLATE FOR 470375
6	4	500295	NOZZLE BODY END CAP
7	2	500296	EASY FIT TEE 1" PIPE
8	2	500307	T5 FEMALE TO 25MM HB
9	15	500363	QUICK TJET SINGLE BODY, 1"
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK, D.3 DIST.42 (737731)
12	12	900028	1/4UNC X 5 1/2 HHCS SS
13	12	910112	SAE FLAT WASHER 1/4 SS
14	12	910118	1/4-20UNC NYLOCK NUT SS



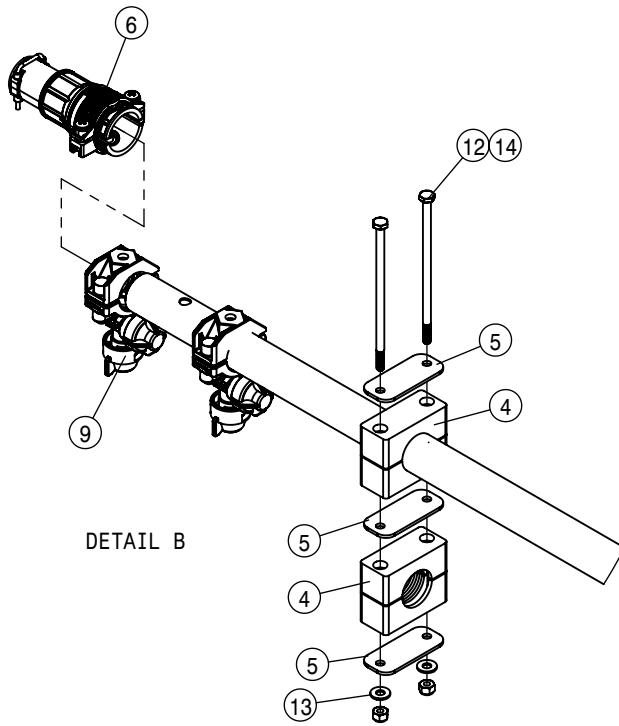
DETAIL A



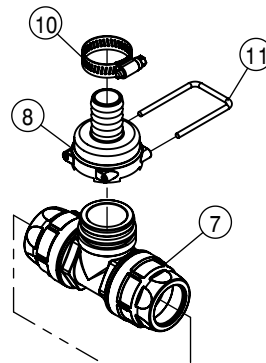
SECTION-11



DETAIL B

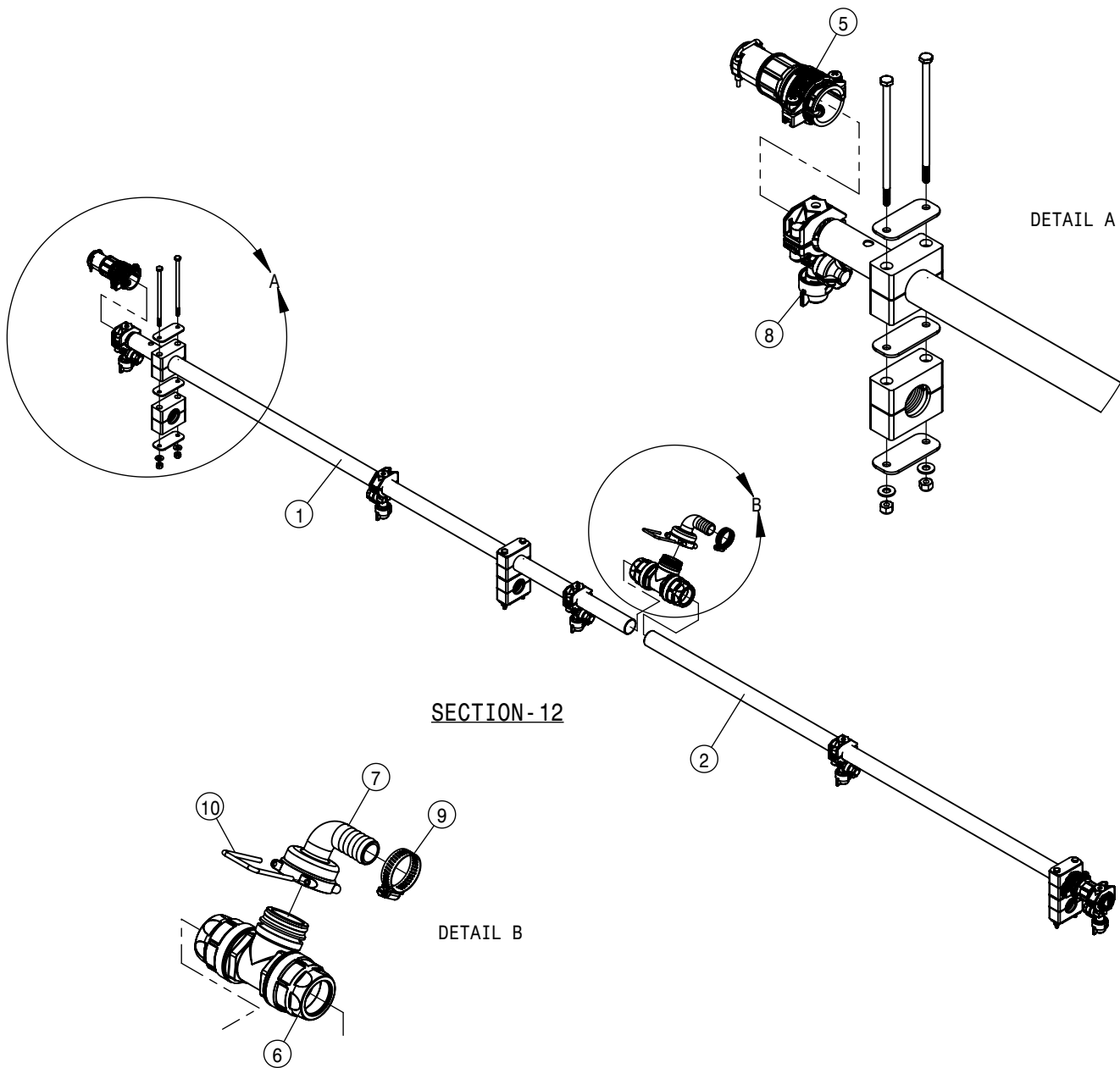


DETAIL C



30" WET BOOM SPACING, SECTION 10-11 60' HYBRID (DUAL PRODUCT)

DET	QTY	P/N	DESCRIPTION
1	2	167759	30" WET BM TUBE, 50.17 LG
2	1	167761	30" WET BOOM TUBE, 73.17 LG
3	1	167762	30" WET BM TUBE, 34.17 LG
4	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	18	470376	COVER PLATE FOR 470375
6	4	500295	NOZZLE BODY END CAP
7	2	500296	EASY FIT TEE 1" PIPE
8	2	500307	T5 FEMALE TO 25MM HB
9	10	500363	QUICK TJET SINGLE BODY, 1"
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK, D.3 DIST.42 (737731)
12	12	900028	1/4UNC X 5 1/2 HHCS SS
13	12	910112	SAE FLAT WASHER 1/4 SS
14	12	910118	1/4-20UNC NYLOCK NUT SS

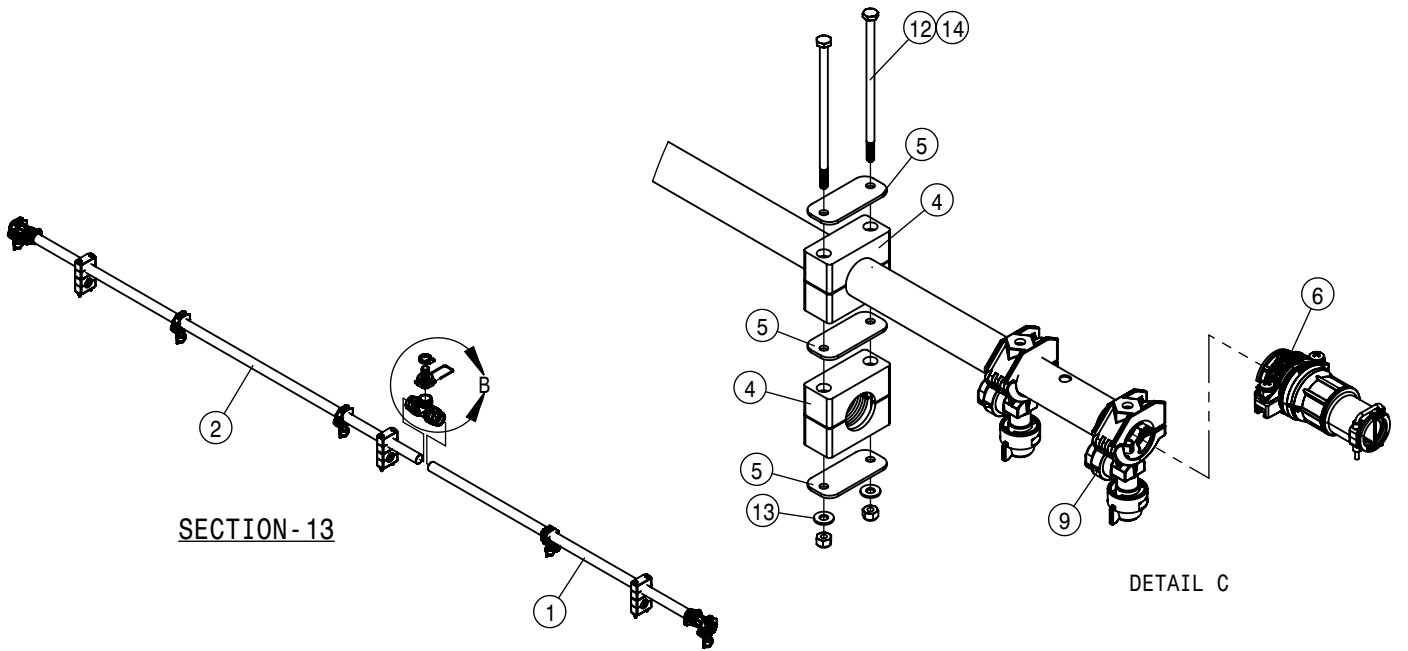


SECTION-12

DETAIL B

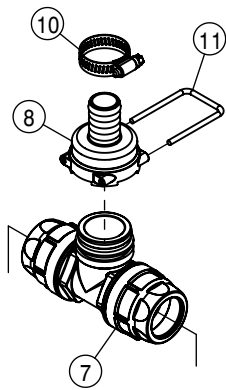
30" WET BOOM SPACING, SECTION-12 60' HYBRID (DUAL PRODUCT)

DET	QTY	P/N	DESCRIPTION
1	1	167758	30" WET BM TUBE, 56.16 LG
2	1	167759	30" WET BM TUBE, 50.17 LG
3	6	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
4	9	470376	COVER PLATE FOR 470375
5	2	500295	NOZZLE BODY END CAP
6	1	500296	EASY FIT TEE 1" PIPE
7	1	500299	T5 TO 25MM HB 90
8	5	500363	QUICK TJET SINGLE BODY, 1"
9	1	520090	HOSECLAMP NO 16 STAINLESS
10	1	737738	FORK,D.3 DIST.42 (737731)
11	6	900028	1/4UNC X 5 1/2 HHCS SS
12	6	910112	SAE FLAT WASHER 1/4 SS
13	6	910118	1/4-20UNC NYLOCK NUT SS

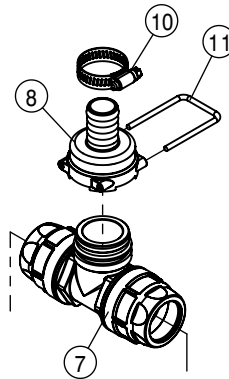


SECTION-13

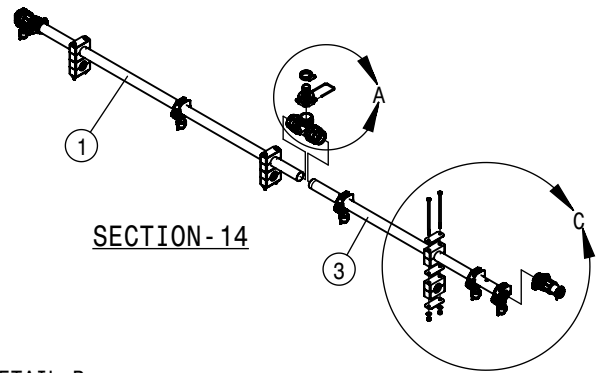
DETAIL C



DETAIL A

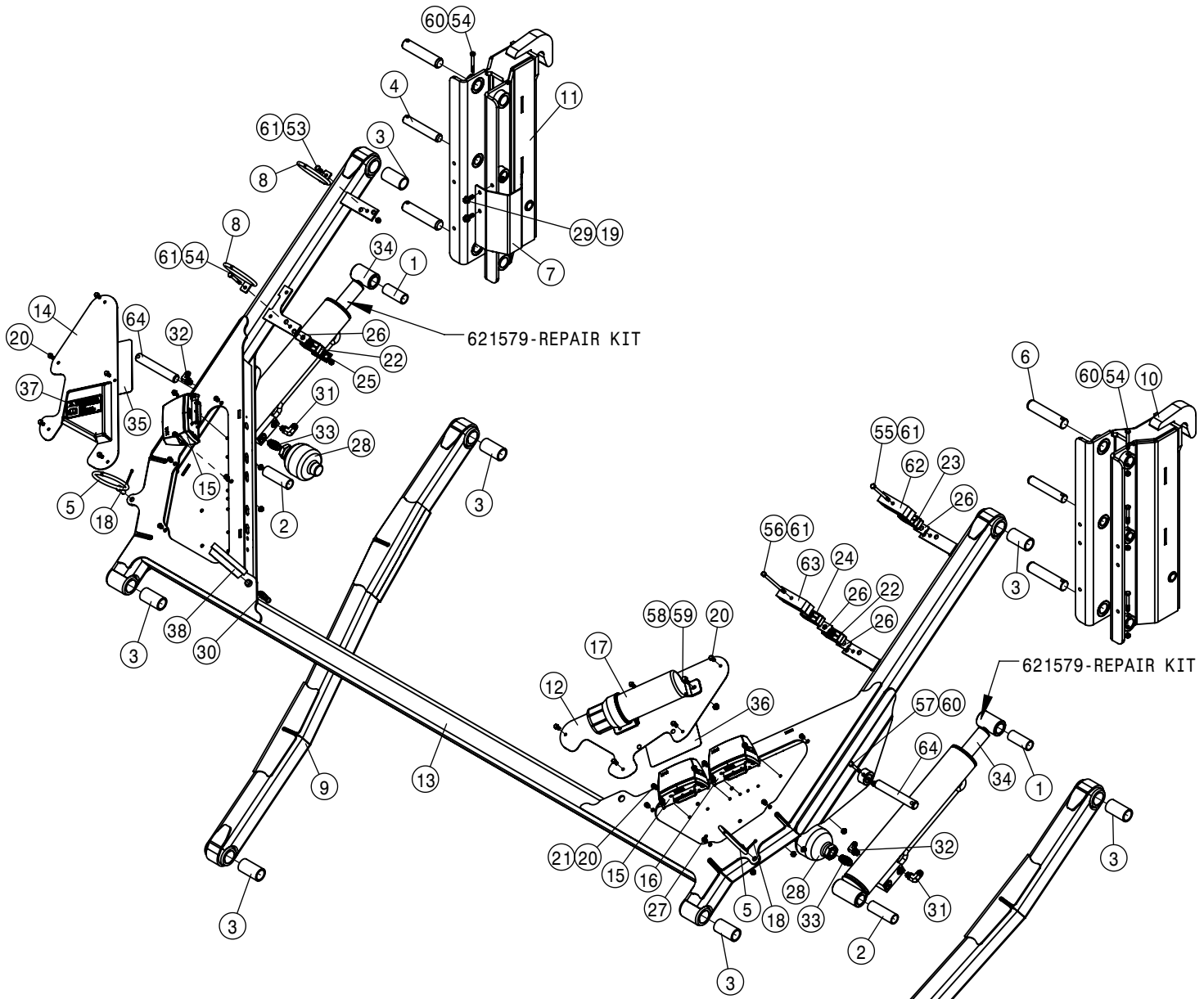


DETAIL B



SECTION-14

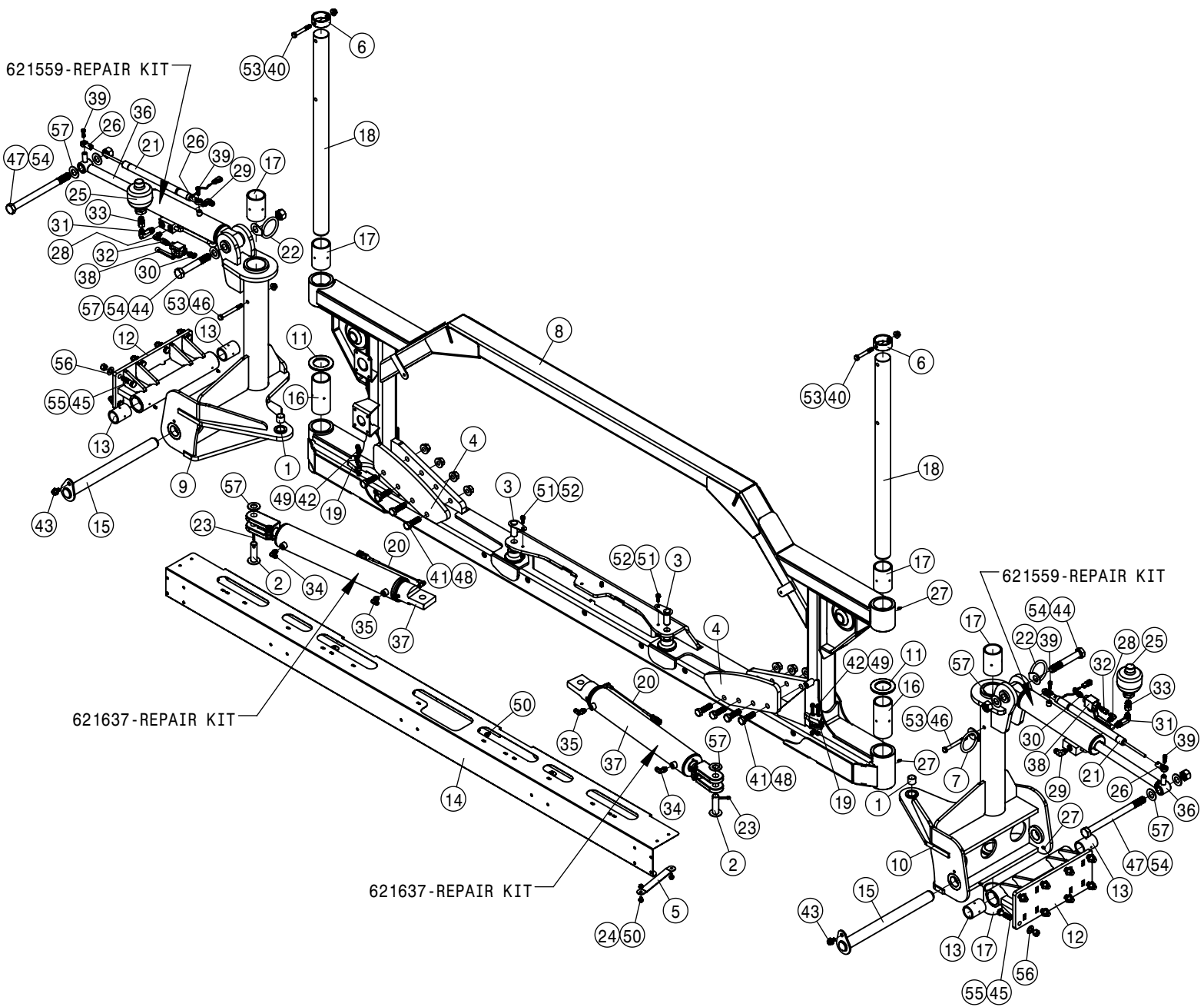
30" WET BOOM SPACING, SECTION 13-14 60' HYBRID (DUAL PRODUCT)			
DET	QTY	P/N	DESCRIPTION
1	2	167759	30" WET BM TUBE, 50.17 LG
2	1	167761	30" WET BOOM TUBE, 73.17 LG
3	1	167762	30" WET BM TUBE, 34.17 LG
4	12	470375	TUBE CLAMP BODY, 1.31 I.D. (PAIR)
5	18	470376	COVER PLATE FOR 470375
6	4	500295	NOZZLE BODY END CAP
7	2	500296	EASY FIT TEE 1" PIPE
8	2	500307	T5 FEMALE TO 25MM HB
9	10	500363	QUICK TJET SINGLE BODY, 1"
10	2	520090	HOSECLAMP NO 16 STAINLESS
11	2	737738	FORK, D.3 DIST.42 (737731)
12	12	900028	1/4UNC X 5 1/2 HHCS SS
13	12	910112	SAE FLAT WASHER 1/4 SS
14	12	910118	1/4-20UNC NYLOCK NUT SS



LIFTARM ASSEMBLY 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 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	650586	DECAL,WARN, DO NOT PRESS WASH
38	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

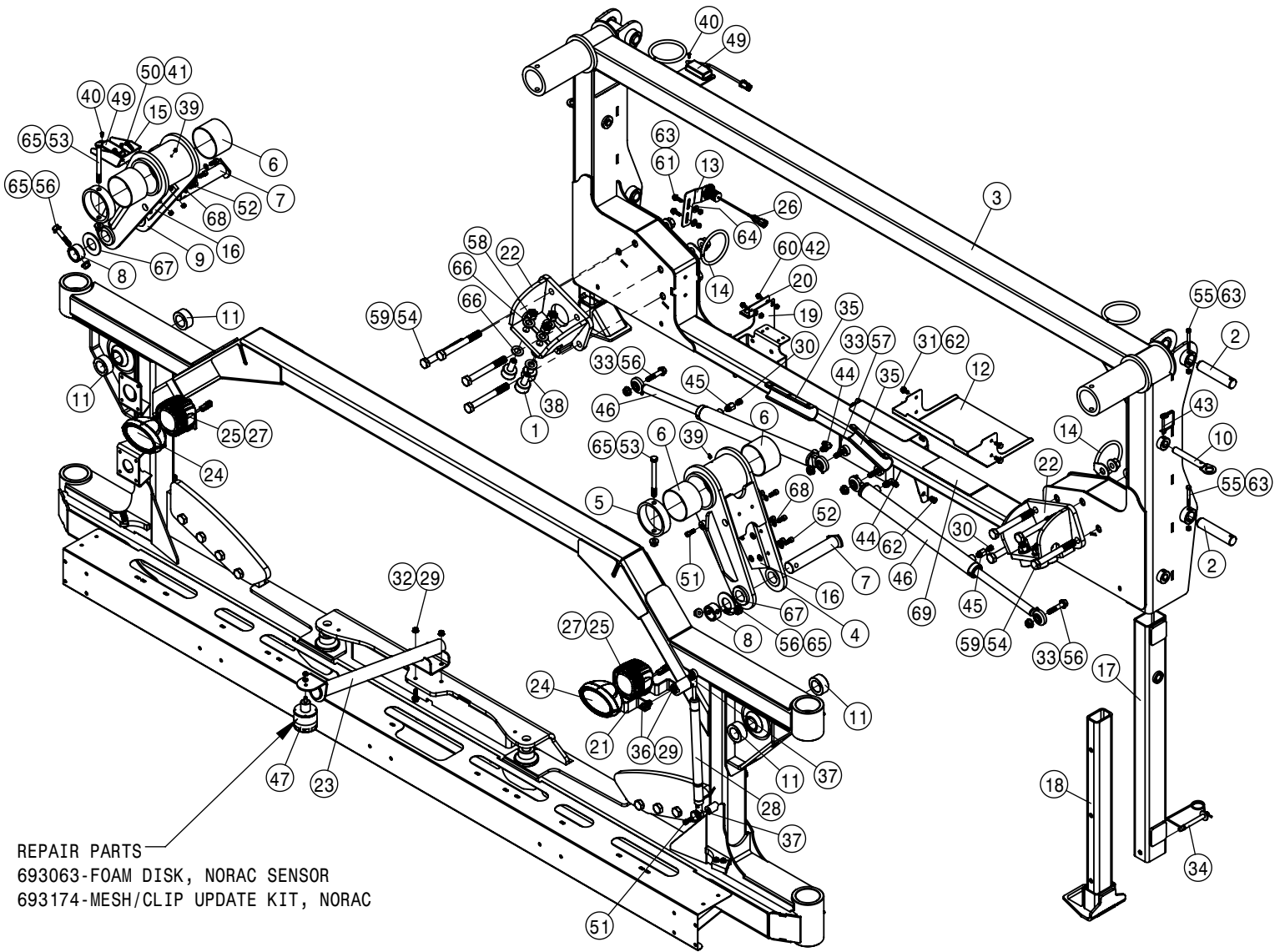
LIFTARM ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
NS	2	693805	CABLE,UC5 NETWORK 14 AWG 15M
NS	2	693806	CABLE,UC5 12 AWG 7M
53	1	900489	5/16UNC X 1 HHCS SS
54	5	900494	5/16UNC X 2 1/2 HHCS SS
55	1	900500	5/16UNC X 4 1/4 HHCS SS
56	1	900502	5/16UNC X 5 1/2 HHCS SS
57	4	900503	5/16UNC X 2 1/4 HHCS SS
58	2	910119	5/16-18UNC HEX FLG NUT SER SS
59	2	910126	5/16UNC X 1 HHSFB SS
60	8	910132	5/16-18UNC NYLOCK NUT SS
61	4	914002	5/16UNC HEX STOVER NUT
62	1	A51729	TUBE CLAMP (PAIR)
63	1	A51729	TUBE CLAMP (PAIR)
64	2	A53739	LIFT CYL PIN, BARREL PIN, DELTA



TRANSOM ASSEMBLY 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	TRANSOM 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	TRANSOM PIVOT WLDMT, 120
9	1	167014	RH TRANSOM PIVOT WLD
10	1	167015	LH TRANSOM 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

TRANSOM ASSEMBLY 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	696131	HIGH PRESSURE BALL VALVE
39	4	900172	3/8UNC X 1"SOC HD CAP SCR,ZINC
40	2	900272	1/2UNC X 3 1/2 HEX BOLT

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

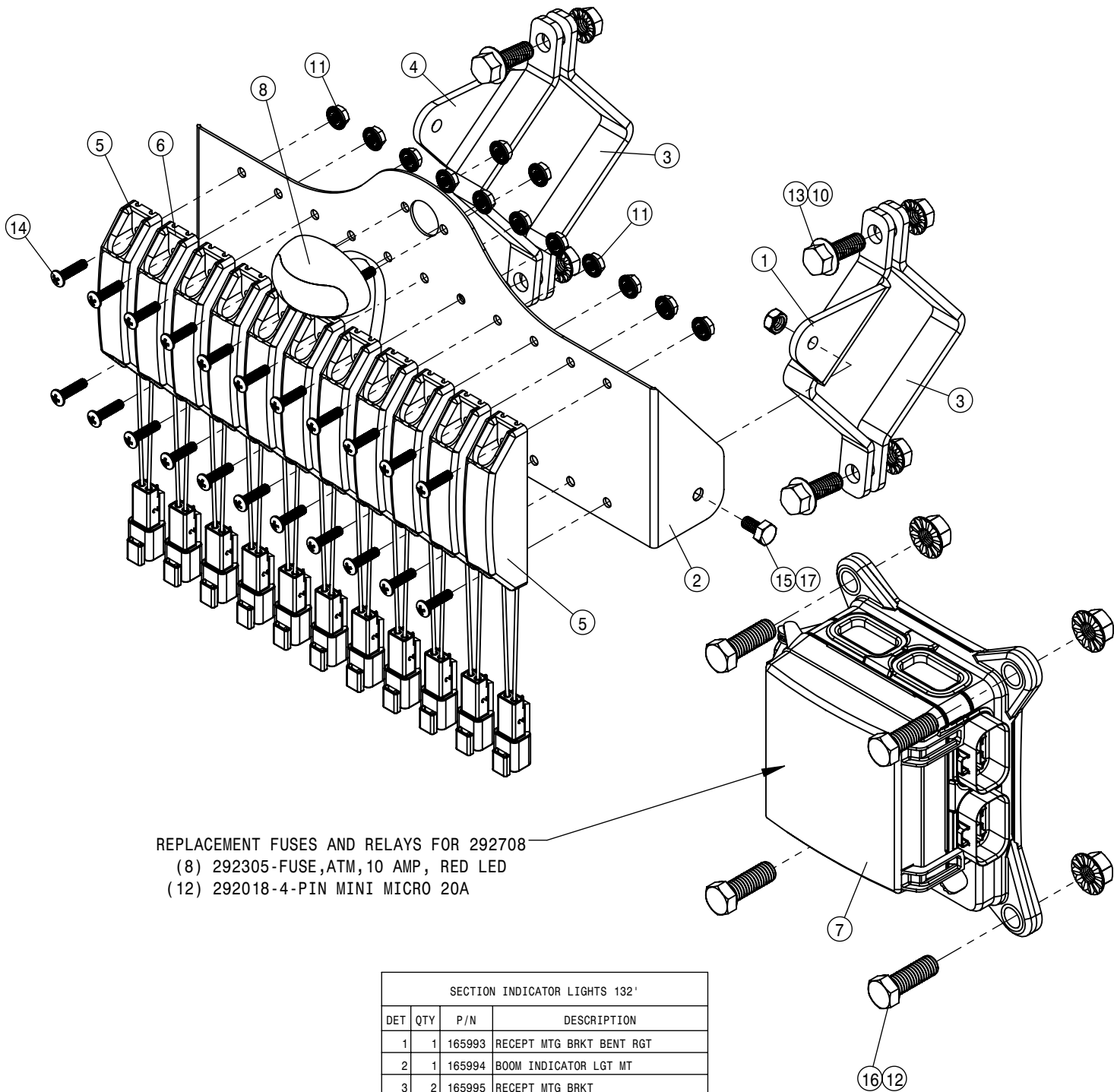


REPAIR PARTS
 693063-FOAM DISK, NORAC SENSOR
 693174-MESH/CLIP UPDATE KIT, NORAC

TRANSOM PIVOT ASSEMBLY 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 120' FIXED 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 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	6	470087	3/8UNC HEX SERR FLANGE NUT
30	2	470114	BREATHER FILTER VENT, 1/4 NPT
31	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT
32	1	470329	3/8UNC X 1 1/4 HHSFB GR5 MC
33	4	470345	1/2UNC SMTH FLG HEX LOCK NUT
34	2	470361	SNAP LOCK PIN, 1/2 X 3 1/2
35	2	470369	HOSE PROTECTOR, 8" BLACK
36	4	470409	3/8UNC X 3/4 HHSFB GR5 MC
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

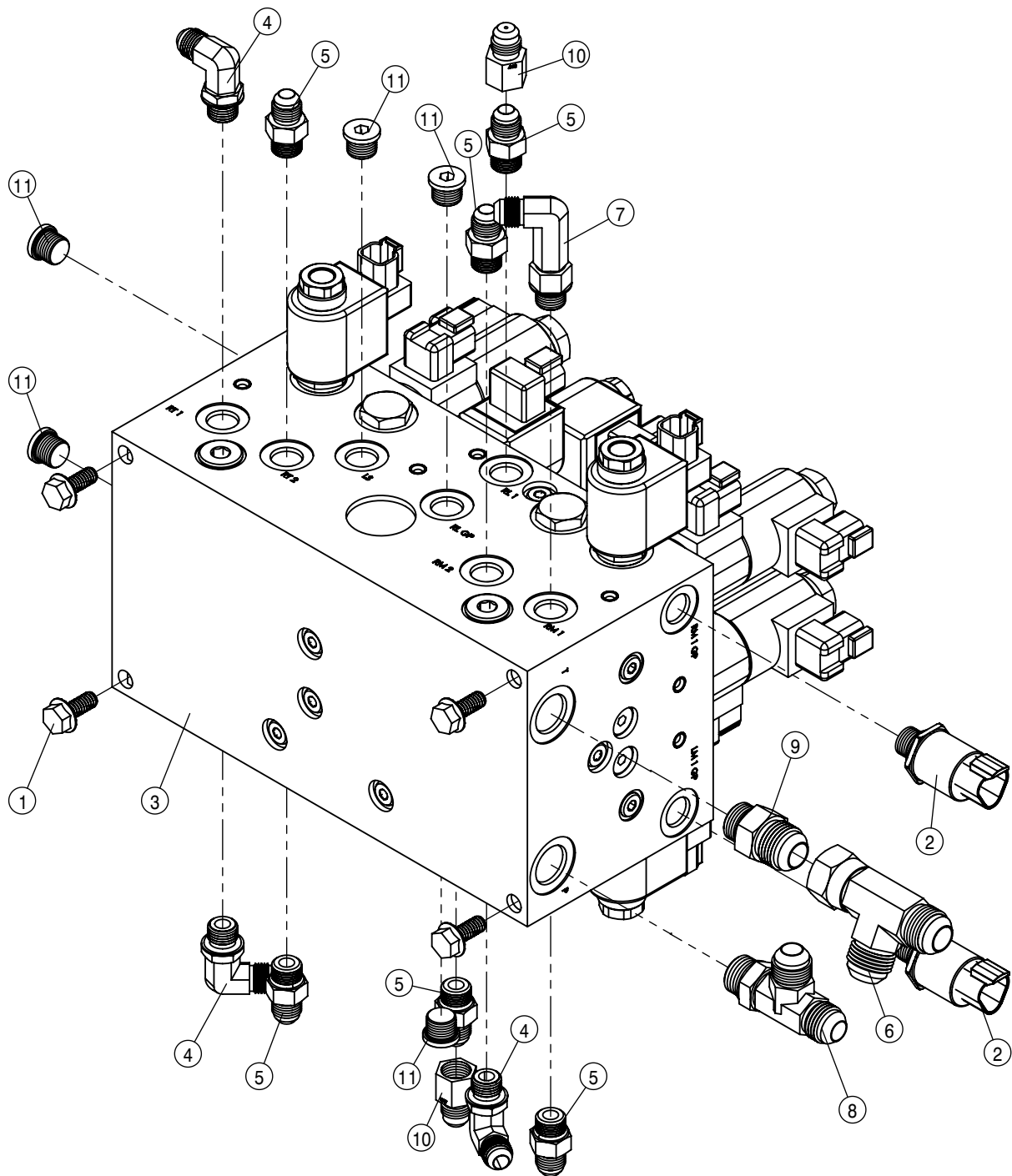
TRANSOM PIVOT ASSEMBLY 132			
DET	QTY	P/N	DESCRIPTION
49	2	693165	NORAC UC5 ROLL SENSOR
50	2	900065	5/16UNC X 1" HEX BOLT
51	2	900172	3/8UNC X 1"SOC HD CAP SCR,ZINC
52	12	900173	3/8UNC X 7/8SOC HD CAP SCR,ZNC
53	2	900277	1/2UNC X 5 1/2 HEX BOLT
54	8	900416	3/4UNC X 6 1/2 HEX BOLT
55	4	900494	5/16UNC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



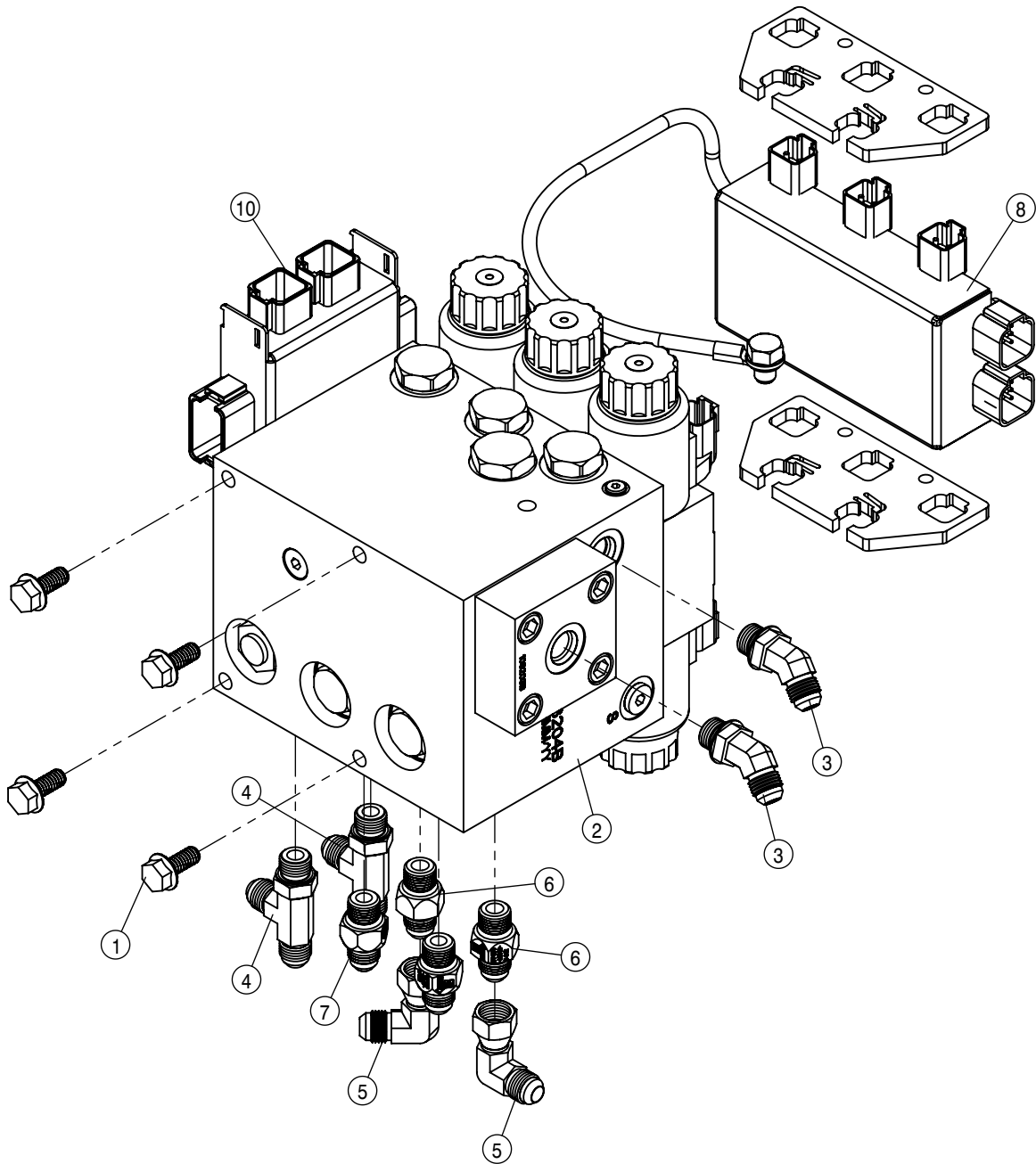
REPLACEMENT FUSES AND RELAYS FOR 292708

- (8) 292305-FUSE,ATM,10 AMP, RED LED
- (12) 292018-4-PIN MINI MICRO 20A

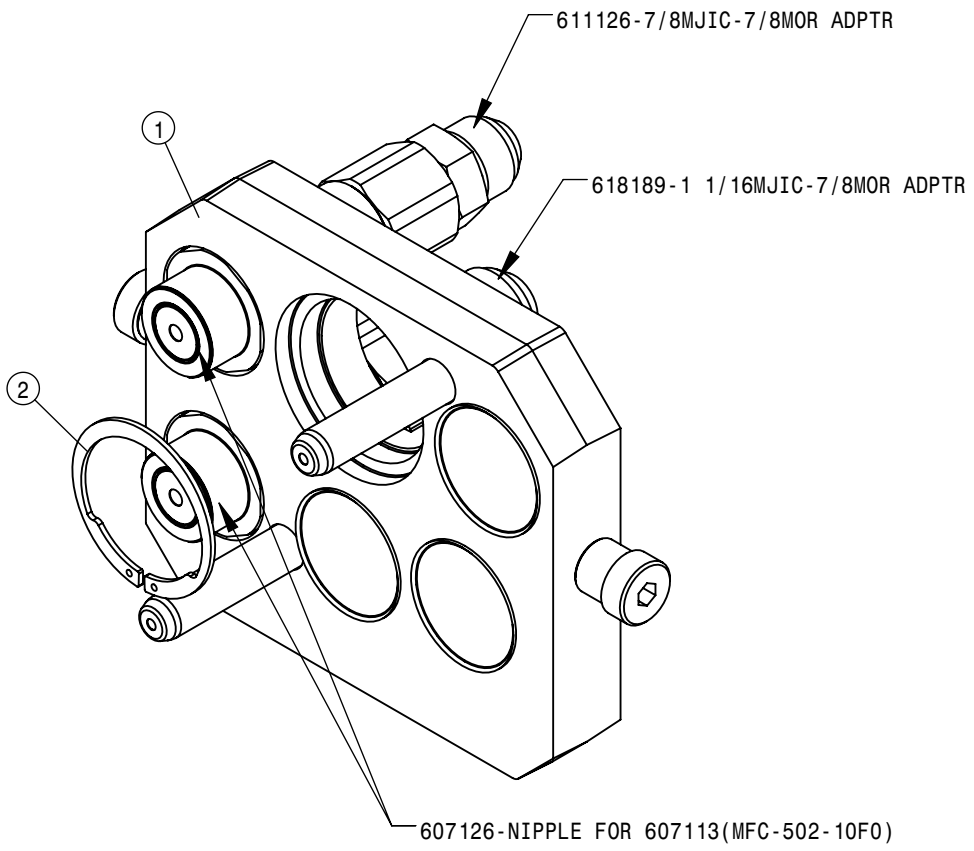
SECTION INDICATOR LIGHTS 132'			
DET	QTY	P/N	DESCRIPTION
1	1	165993	RECEPT MTG BRKT BENT RGT
2	1	165994	BOOM INDICATOR LGT MT
3	2	165995	RECEPT MTG BRKT
4	1	165996	RECEPT MTG BRKT BENT LFT
5	2	291325	AMBER LAMP,4" DT DEUTSCH
6	9	291326	RED LAMP,4" DT DEUTSCH
7	1	292708	MVEC
8	1	293817	MASTER SPRAY LIGHT, STS 05
NS	1	294284	SPRAY SECTION LIGHT HARNESS
		10	4 470087 3/8UNC HEX SERR FLANGE NUT
		11	24 470175 10-32 SERR FLANGE NUT
		12	4 470325 7/16 UNC SERR FLG HEX NUT
		13	4 470460 3/8 X 1" SERR FLG BOLT
		14	24 472235 10-32 X 3/4 PHIL HD MACH SCR
		15	2 900000 1/4UNC X 1/2 HEX BOLT
		16	4 900196 7/16UNC X 1 1/4 HEX BOLT
		17	2 910000 1/4UNC HEX NUT



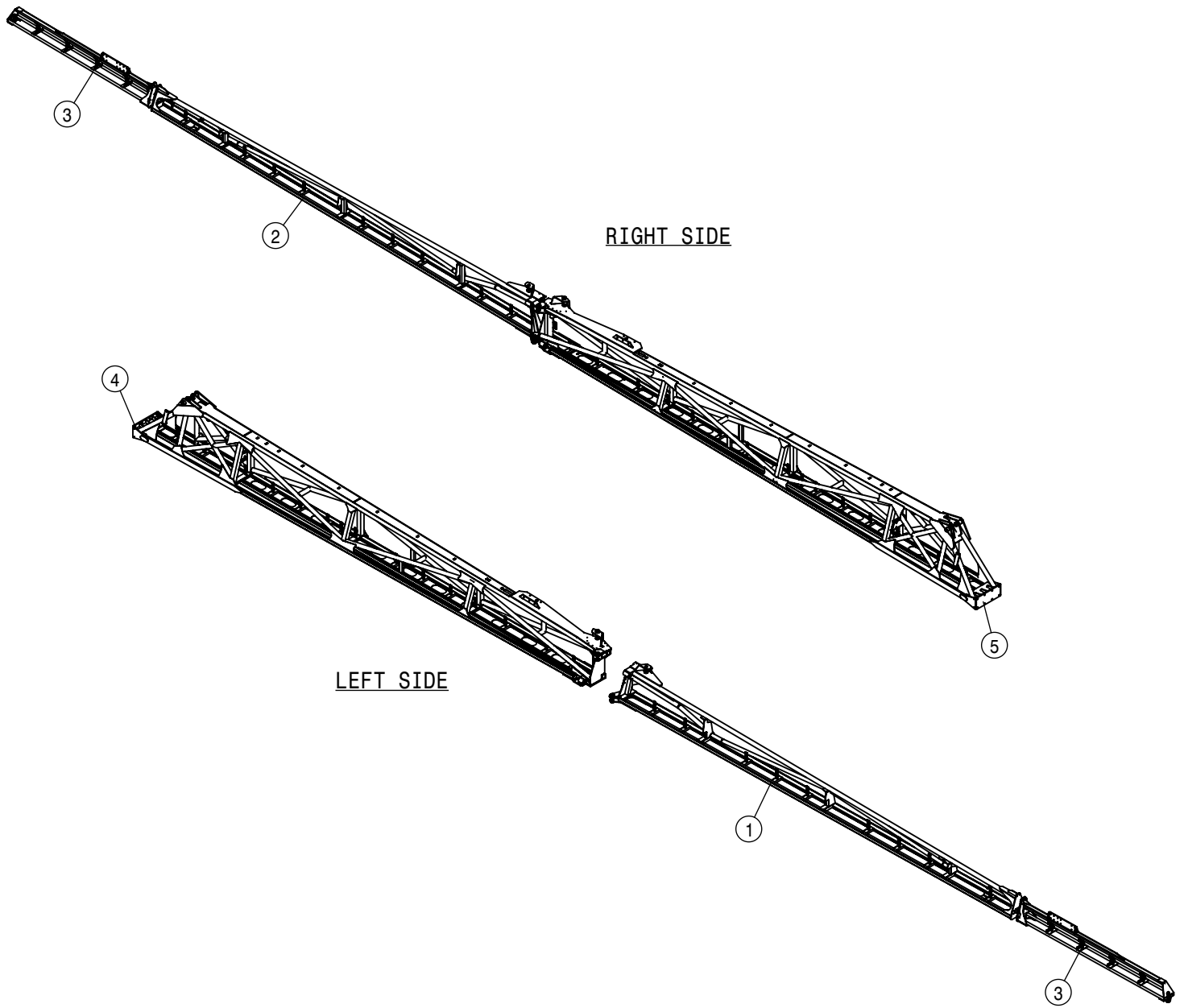
FOLD CONTROL VALVE ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT
2	2	606347	PRESSURE TRANSDUCER, 7500PSI
3	1	606527	FOLD MANIFOLD, 120'A STS' 14
4	3	618119	9/16MJIC-90-9/16MOR LBO
5	6	618126	9/16MJIC-9/16MOR ADPTR
6	1	618333	7/8FJIC SW RUN TEE-7/8MJIC
7	1	618440	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



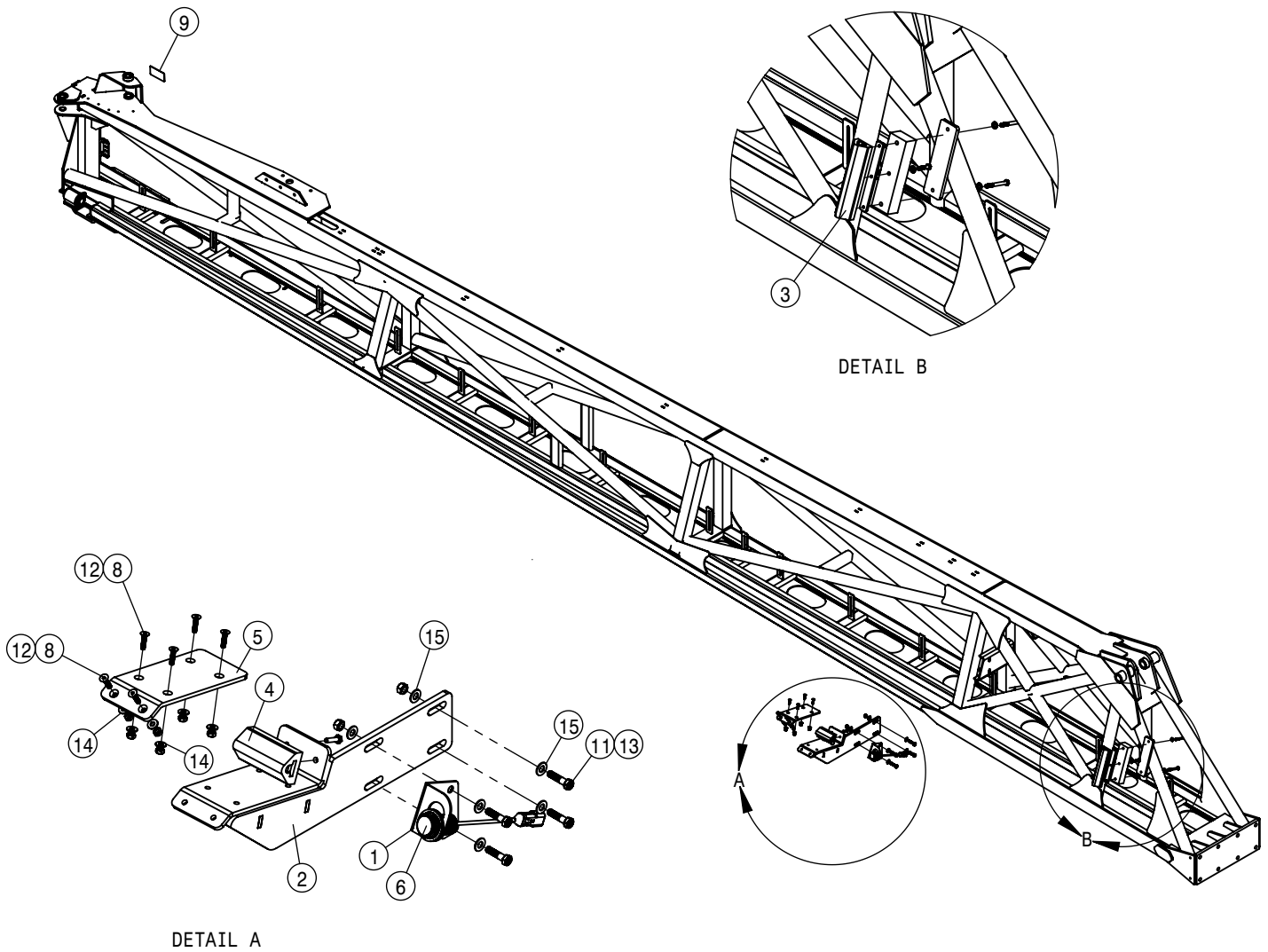
NORAC HYDRAULIC VALVE ASSEMBLY 132'				
DET	QTY	P/N	DESCRIPTION	
1	4	470233	5/16UNC X 3/4 SERR FLG HEX BOLT	
2	1	606456	NORAC HYD VALVE (44960D)	
3	2	618425	9/16MJIC-45-9/16MOR LBO	
4	2	618444	9/16MOR RUN TEE-9/16MJIC	
5	2	618618	9/16MJIC-90-9/16FJIC SWIV LBO	
6	2	618884	9/16MJIC-9/16MOR.042MFMO ADPTR	
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



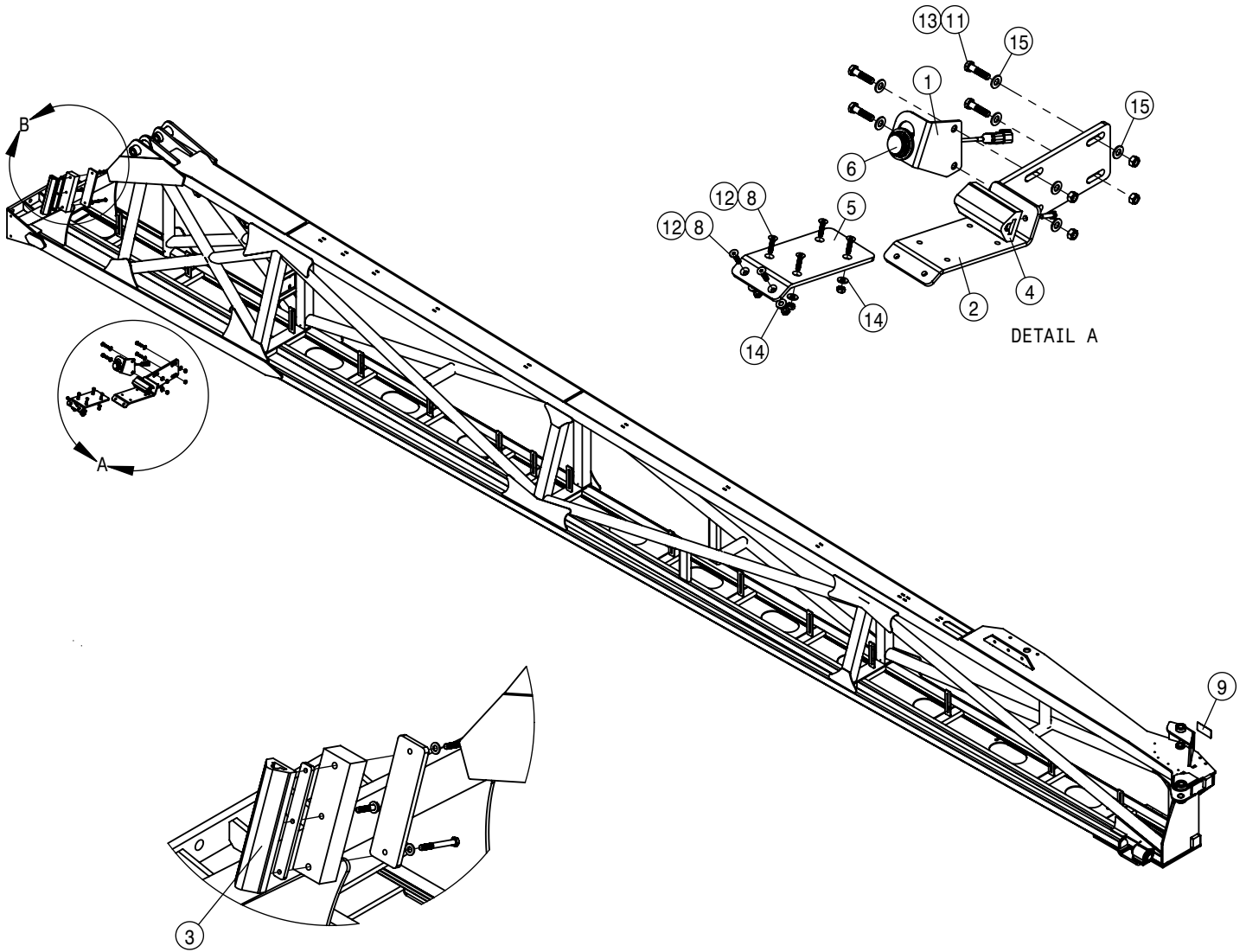
BOOM ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	167816	LH BOOM WLD, SECT 2,22,132,16
2	1	167817	RH BOOM WLD, SECT 2,22,132,16
3	2	167820	BREAKAWAY ASSY, 22 ON
4	1	169459	LH SECT-1 132-22 REINF W/DECAL
5	1	169461	RH SECT-1 132-22 REINF W/DECAL



DETAIL A

DETAIL B

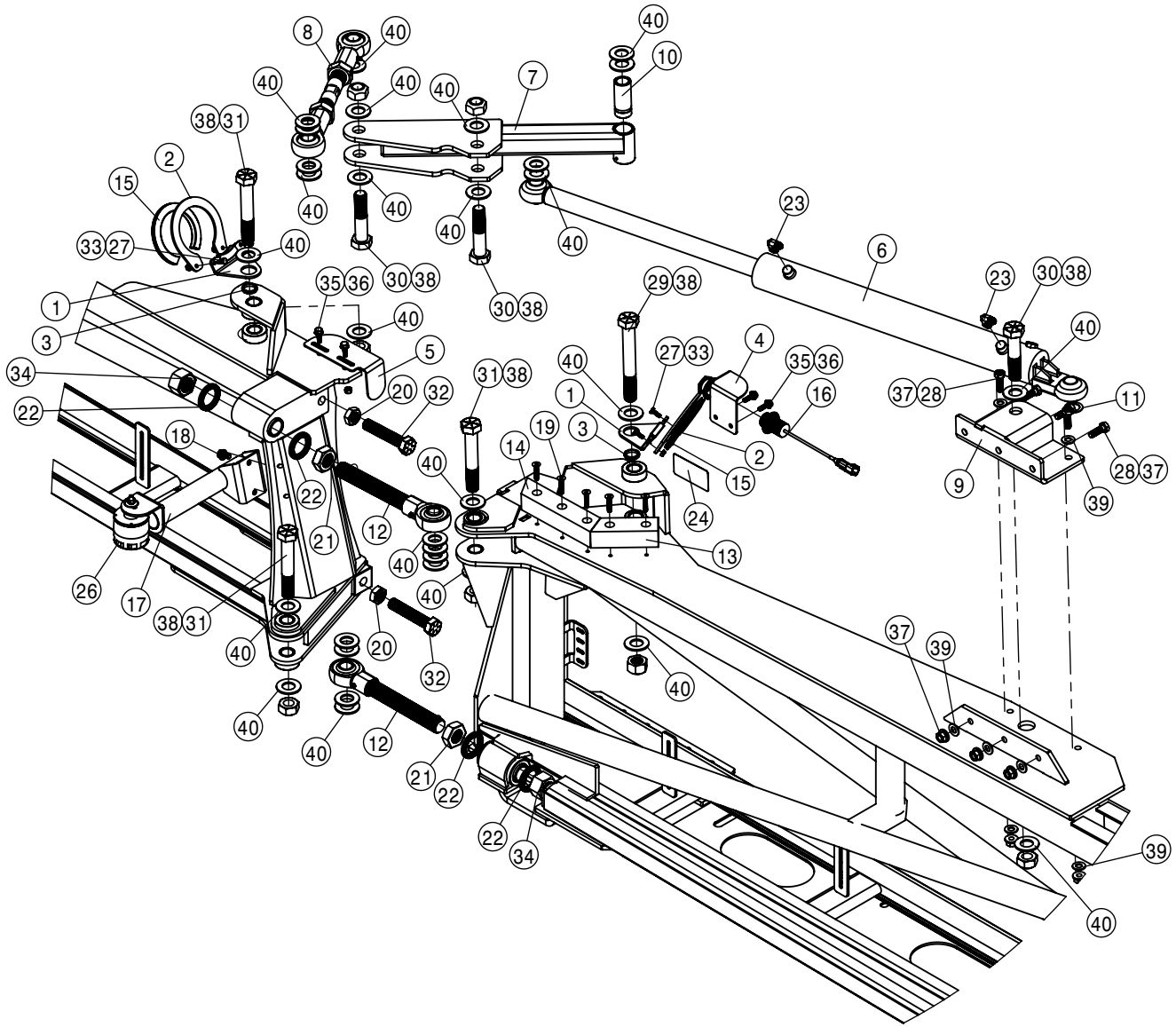
RIGHT INNER BOOM ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	167071	RH PROX MT, SECT 1-2 OTR 120'A'12
2	1	167094	RH ARM BRKT SHELF WLD 120'A'12
3	1	167102	BOOM BUMPER ASSY 120'A'12
4	1	167111	ARM BRKT SHELF BUMPER 120'A'12
5	1	167112	ARM BRKT SHELF PAD 120'A'12
6	1	292927	INDUCTIVE PROX SENSOR, 30MM
NS	1	294347	HARNES,RH MAIN 120 BOOM
8	6	472284	1/4-20 UNC X 3/4 FHSCS GR5 BZ
9	1	650204	DECAL, WARNING, CRUSH HAZARD FP
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
11	4	900858	3/8UNC X 1 1/2 HHCS GR8 MC
12	6	914001	1/4-28UNF STOVER NUT MC GR5
13	4	914004	3/8-16UNC STOVER NUT MC GR5
14	6	920000	SAE FLAT WASHER 1/4 MC
15	8	920002	SAE FLAT WASHER 3/8 MC



DETAIL B

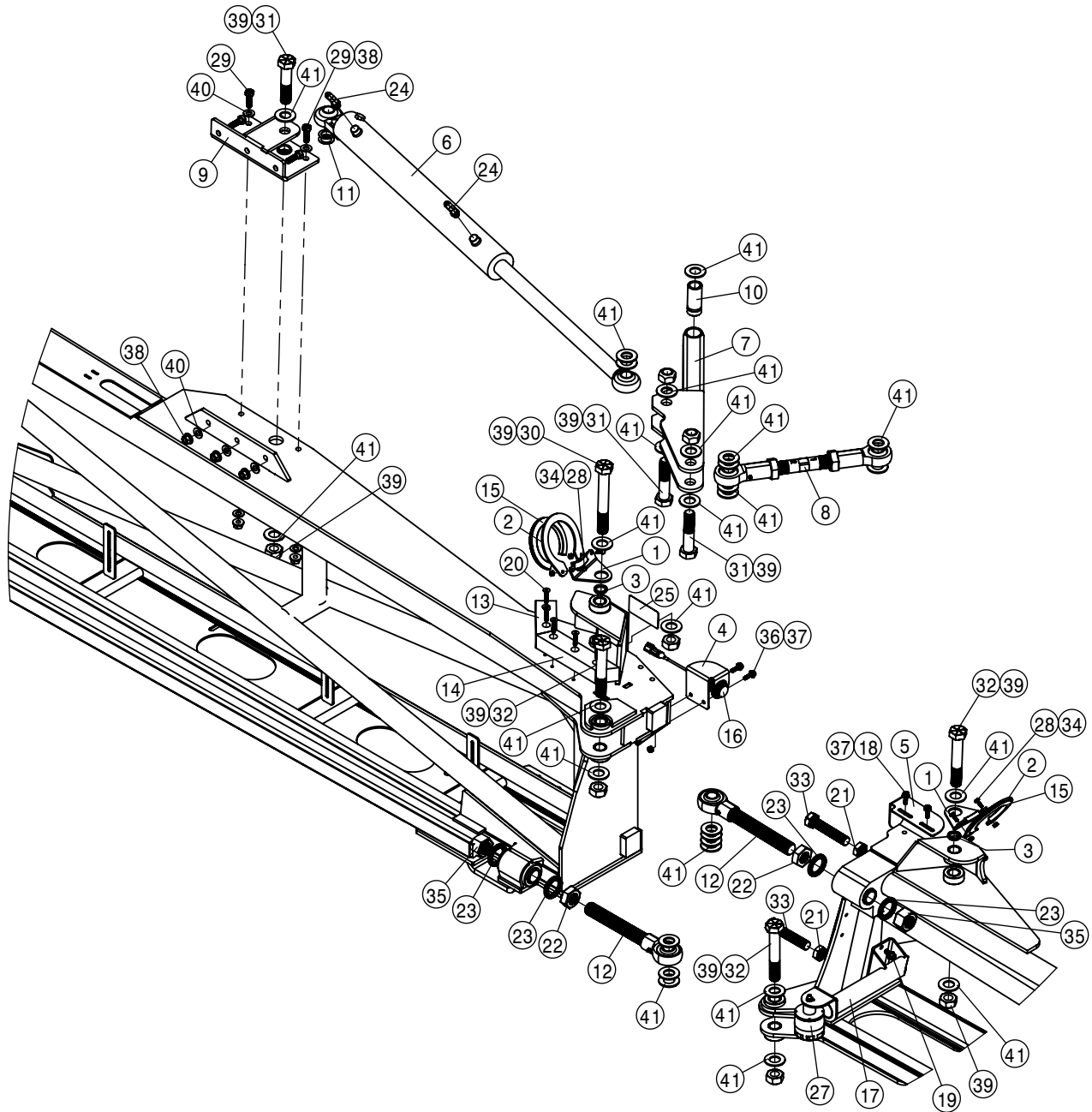
DETAIL A

LEFT INNER BOOM ASSEMBLY 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	HARNES,LH MAIN 120 BOOM
8	6	472284	1/4-20 UNC X 3/4 FHSCS GR5 BZ
9	1	650204	DECAL , WARNING, CRUSH HAZARD FP
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
11	4	900858	3/8UNC X 1 1/2 HHCS GR8 MC
12	6	914001	1/4-28UNF STOVER NUT MC GR5
13	4	914004	3/8-16UNC STOVER NUT MC GR5
14	6	920000	SAE FLAT WASHER 1/4 MC
15	7	920002	SAE FLAT WASHER 3/8 MC



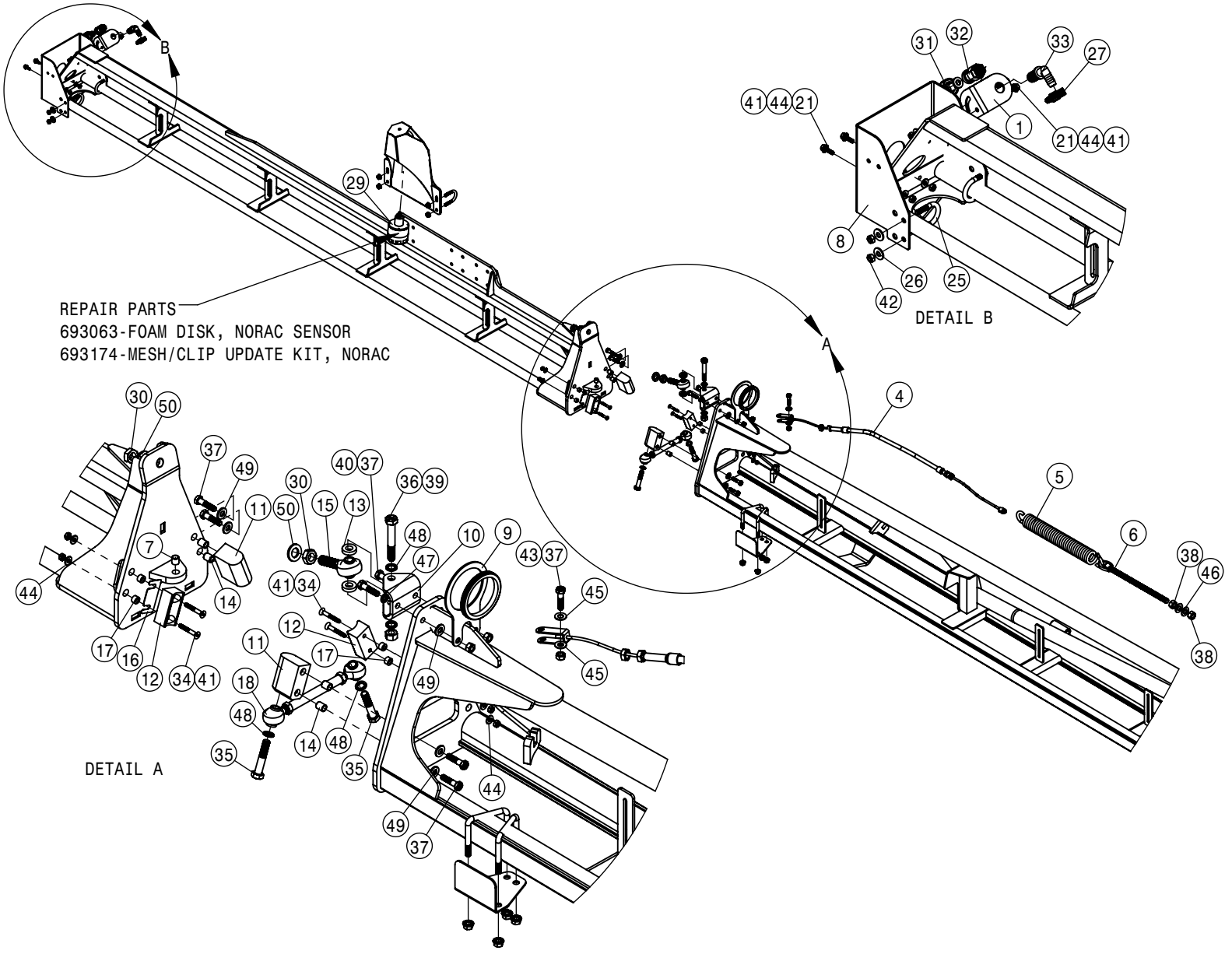
RIGHT BOOM FOLD ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	2	165950	HOSE RING MNT TAB, 120'A'13
2	2	165951	HOSE RING, REMOVABLE, 120'A'13
3	2	165952	SPACER, 1.25 X 1.010 X .220
4	1	167067	PROX MNT BRKT RH 120'A SECT1-2
5	1	167068	PROX FLAG BRKT RH 120'A SECT1-2
6	1	167091	RH HYD CYL, OUTER FOLD 120'A'12
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	1	167113	BUSH SCNDRY FOLD ARM 120'A'12
11	1	167132	SHIM, 1.50 ODx1.02 IDx0.048
12	2	167298	ROD END ASSY, 1 1/4-12 MALE
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	1/4-20 UNC X 3/4 FHCS GR5 BZ
20	2	472372	7/8-9 UNC HEX JAM NUT

RIGHT BOOM FOLD ASSEMBLY 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
24	1	650204	DECAL, WARNING, CRUSH HAZARD FP
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	7/8UNC X 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	4	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



LEFT BOOM FOLD ASSEMBLY 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	1	167113	BUSH SCNDRY FOLD ARM 120'A'12
11	3	167132	SHIM, 1.50 ODx1.02 IDx0.048
12	2	167298	ROD END ASSY, 1 1/4-12 MALE
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	1/4-20 UNC X 3/4 FHCS GR5 BZ
21	2	472372	7/8-9 UNC HEX JAM NUT

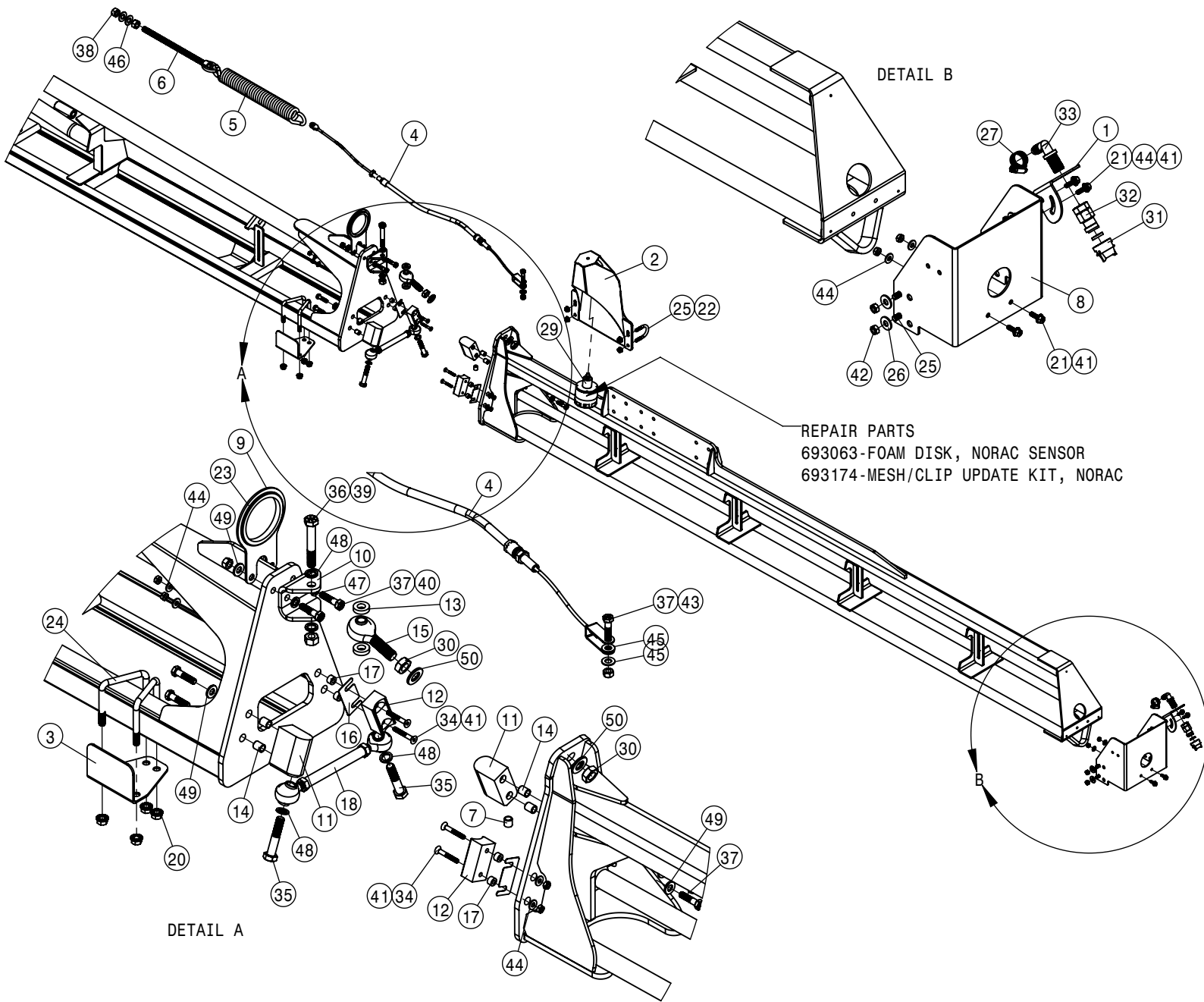
LEFT BOOM FOLD ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
22	2	472373	1 1/4UNF HEX JAM NUT
23	4	483021	1 1/2" NORD LOCK WASHER
24	2	618119	9/16MJIC-90-9/16MOR LBO
25	1	650204	DECAL, WARNING, CRUSH HAZARD FP
NS	1	650429	DECAL SHEET, 120' ALUM BOOM '12
27	1	693113	SENSOR, NORAC UC5 ULTRASONIC
28	4	900448	1/4UNC X 3/4 HHCS SS
29	5	900804	1/2UNC X 1 1/2 HHCS GR8 MC
30	1	900860	1UNC X 7 1/2 HHCS GR8 MC
31	3	900861	1UNC X 4 1/2 HHCS GR8 MC
32	3	900862	1UNC X 6 HHCS GR8 MC
33	2	900870	7/8UNC X 4.50 FULL HEX BOLT GR8
34	4	910000	1/4-20UNC HEX NUT MC GR5
35	2	910041	1 1/4UNF HEX NUT
36	2	910126	5/16UNC X 1 HHSFB SS
37	4	910132	5/16-18UNC NYLOCK NUT SS
38	5	914015	1/2-13UNC CTRLK FLG NUT MC GR5
39	7	914016	1-8UNC STOVER NUT MC GR5
40	10	920004	SAE FLAT WASHER 1/2 MC
41	31	920008	SAE FLAT WASHER 1 MC



RIGHT BOOM BREAKAWAY ASSEMBLY 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	BM 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	294349	HARNES,132' BOOM WING

RIGHT BOOM BREAKAWAY ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
20	4	470087	3/8-16UNC HEX FLG NUT SER MC GR5
21	4	470118	1/4UNC X 3/4 HHSFB GR5 MC
22	4	470570	5/16UNC HEX FLG CNTR LOCK NUT
23	1	470691	GROMMET,3.000ID .125GW 3.25GD
24	2	472036	3/8UNC-2.63ID-2.88 U-BOLT SQ
25	4	473911	5/16UNC-1.31ID-2.00 U-BOLT ZINC
26	4	483040	USS FLAT WASHER 5/16 MC
27	1	520070	HOSE CLAMP NO 8 STAINLESS
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
29	1	693113	SENSOR, NORAC UC5 ULTRASONIC
30	2	695914	5/8-18UNF HEX JAM NUT SS
31	1	737822	CAP SET, YELLOW QUICK TEEJET
32	1	737931	11/16-16F-QUICK TJET ADAPTER
33	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
34	4	900169	1/4-20 UNC X 1 3/4 FHSCS GR5 MC
35	2	900842	1/2UNC X 2 1/2 HHCS GR8 MC
36	1	900856	1/2UNC X 3 1/4 HHCS GR8 MC
37	7	900858	3/8UNC X 1 1/2 HHCS GR8 MC
38	2	910010	5/8-11UNC HEX NUT MC GR5

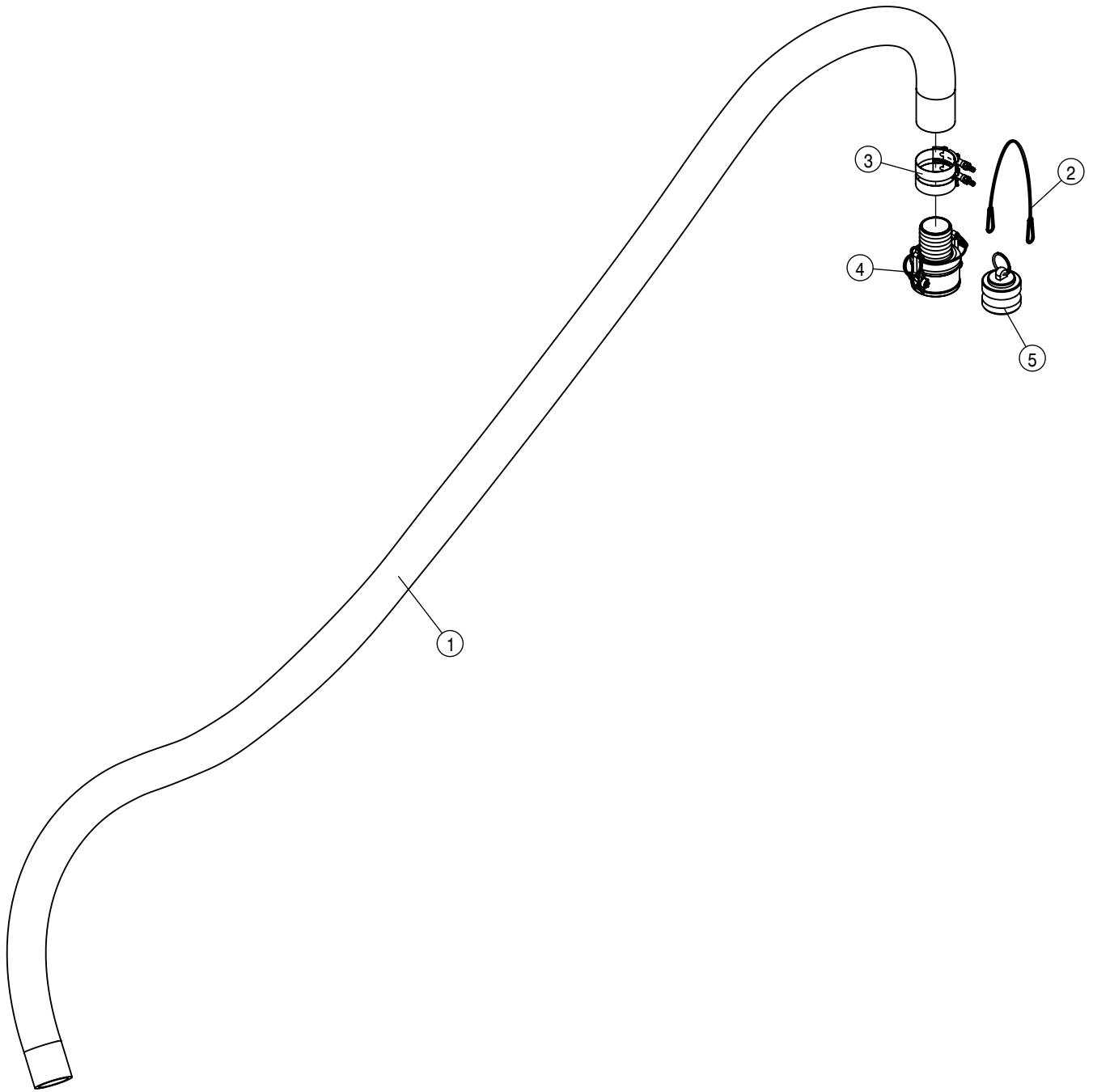
RIGHT BOOM BREAKAWAY ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
39	1	910032	1/2-13UNC HEX NUT MC GR8
40	2	910134	3/8-16UNC HEX NUT MC GR8
41	8	914000	1/4-20UNC STOVER NUT MC GR5
42	4	914002	5/16-18UNC STOVER NUT MC GR5
43	1	914004	3/8-16UNC STOVER NUT MC GR5
44	8	920000	SAE FLAT WASHER 1/4 MC
45	2	920002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



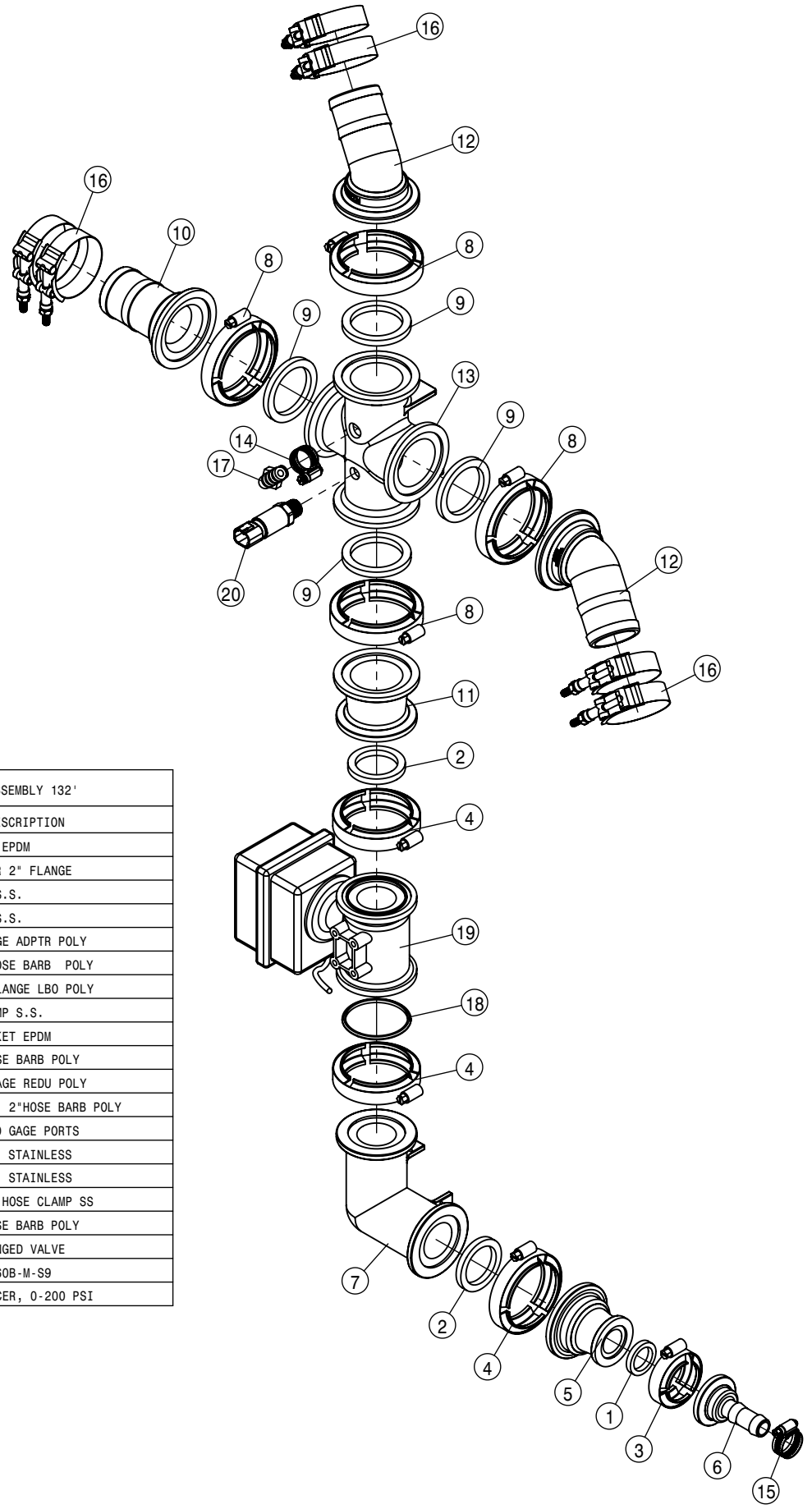
LEFT BOOM BREAKAWAY ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	166863	FENCE ROW NOZ BRKT LH, 120
2	1	166893	NORAC BRKT 5.4 DEGREE TILT
3	1	167069	PROX FLAG BRKT OTR SECT1-2 120'A'12
4	1	167092	CABLE,BREAK AWAY 120'A'12
5	1	167106	SPRING,BREAK AWAY 120'A'12
6	1	167107	BM SPRING ROD ASSY 120'A'12
7	1	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

LEFT BOOM BREAKAWAY ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
18	1	169229	LINK ASSY, LWR HINGE
NS	2	294349	HARNES,132' BOOM WING
20	4	470087	3/8-16UNC HEX FLG NUT SER MC GR5
21	4	470118	1/4UNC X 3/4 HHSFB GR5 MC
22	4	470570	5/16UNC HEX FLG CNTR LOCK NUT
23	1	470691	GROMMET,3.000ID .125GW 3.25GD
24	2	472036	3/8UNC-2.63ID-2.88 U-BOLT SQ
25	4	473911	5/16UNC-1.31ID-2.00 U-BOLT ZINC
26	4	483040	USS FLAT WASHER 5/16 MC
27	1	520070	HOSE CLAMP NO 8 STAINLESS
NS	1	650429	DECAL SHEET,120' ALUM BOOM '12
29	1	693113	SENSOR, NORAC UC5 ULTRASONIC
30	2	695914	5/8-18UNF HEX JAM NUT SS
31	1	737822	CAP SET, YELLOW QUICK TEEJET
32	1	737931	11/16-16F-QUICK TJET ADAPTER
33	1	737932	11/16MPS-90-1/2 HBARB NOZLBODY
34	4	900169	1/4-20 UNC X 1 3/4 FHSCS GR5 MC

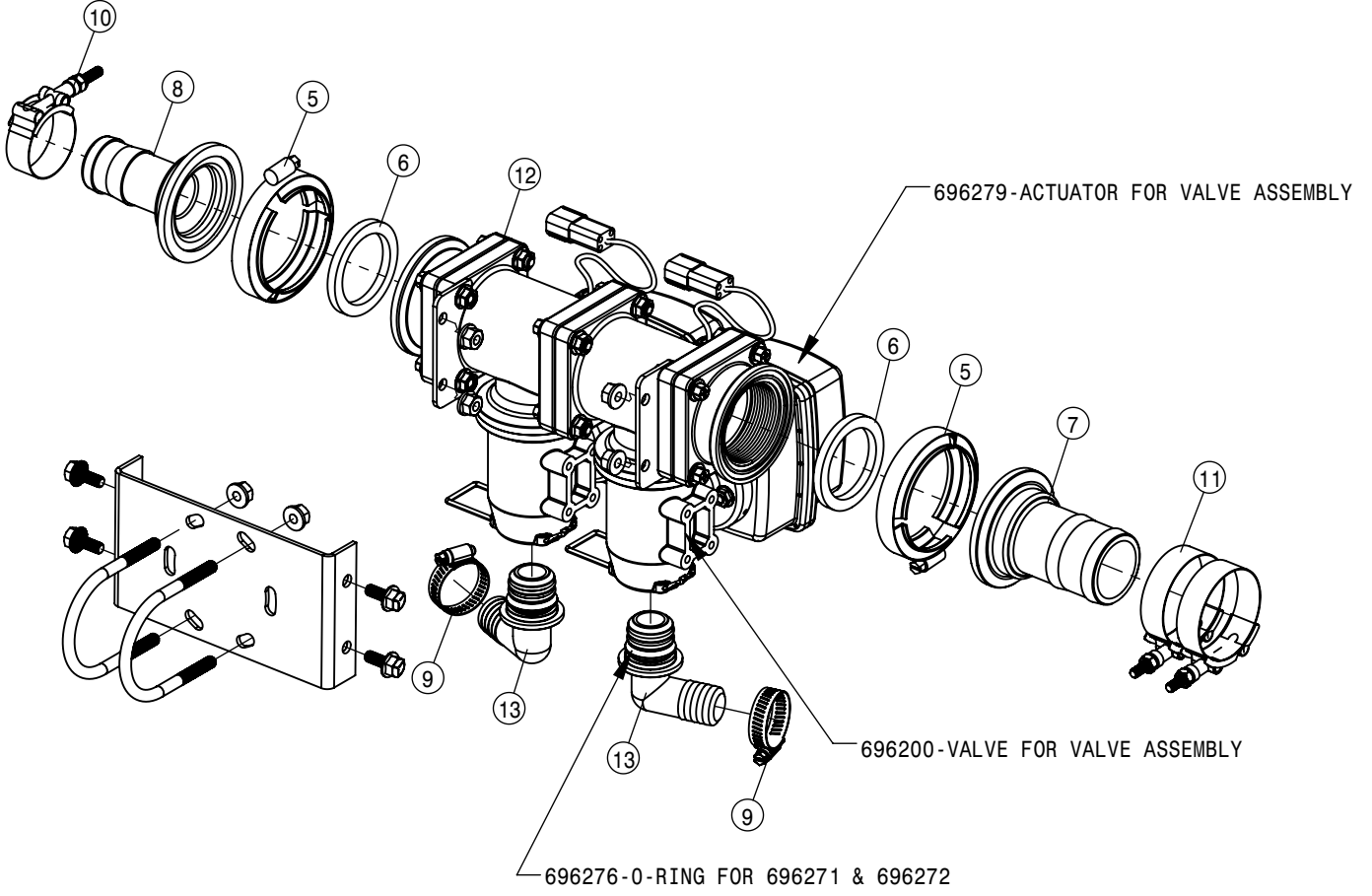
LEFT BOOM BREAKAWAY ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
35	2	900842	1/2UNC X 2 1/2 HHCS GR8 MC
36	1	900856	1/2UNC X 3 1/4 HHCS GR8 MC
37	7	900858	3/8UNC X 1 1/2 HHCS GR8 MC
38	2	910010	5/8-11UNC HEX NUT MC GR5
39	1	910032	1/2-13UNC HEX NUT MC GR8
40	2	910134	3/8-16UNC HEX NUT MC GR8
41	8	914000	1/4-20UNC STOVER NUT MC GR5
42	4	914002	5/16-18UNC STOVER NUT MC GR5
43	1	914004	3/8-16UNC STOVER NUT MC GR5
44	8	920000	SAE FLAT WASHER 1/4 MC
45	2	920002	SAE FLAT WASHER 3/8 MC
46	2	920005	SAE FLAT WASHER 5/8 MC
47	2	920523	WASHER, NORD-LOCK NL3/8
48	4	920524	WASHER, NORD-LOCK NL1/2
49	6	920525	WASHER, NORD-LOCK NL3/8SP
50	2	920526	WASHER, NORD-LOCK NL16SP



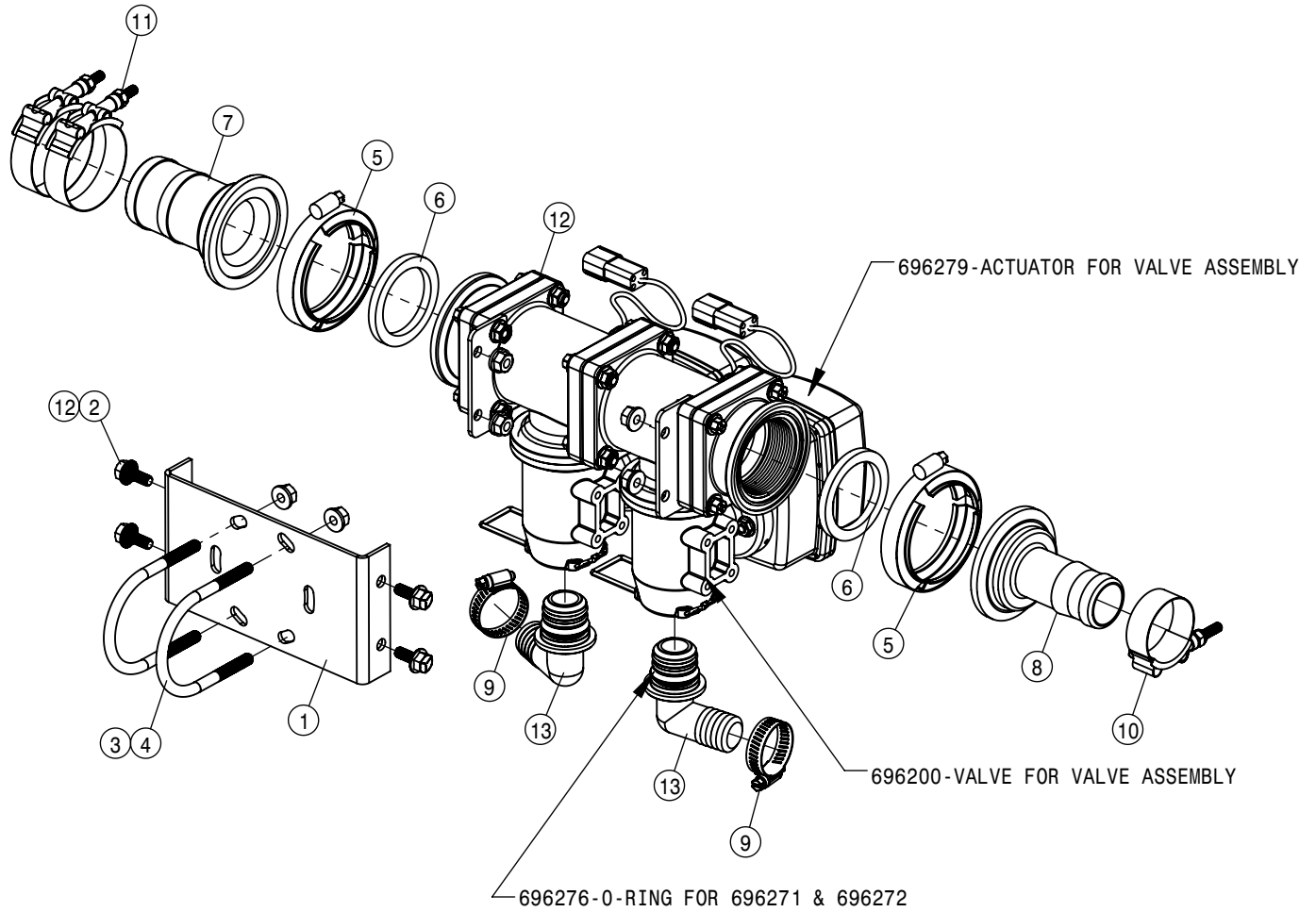
CAM COUPLING ASSEMBLY 132'				
DET	QTY	P/N	DESCRIPTION	
1	1	197133-105	HOSE 2" SUCTION, 2F-1W EPDM	
2	1	470322	LANYARD 8" NYLON LOOP/LOOP	
3	2	520141	2.31/2.62 T-BOLT HOSE CLAMP SS	
4	1	690182	2" HOSE BARB CAMLOCK W/ LOCK	
5	1	690392	PLUG FOR 2.00 FEMALE COUPLER	



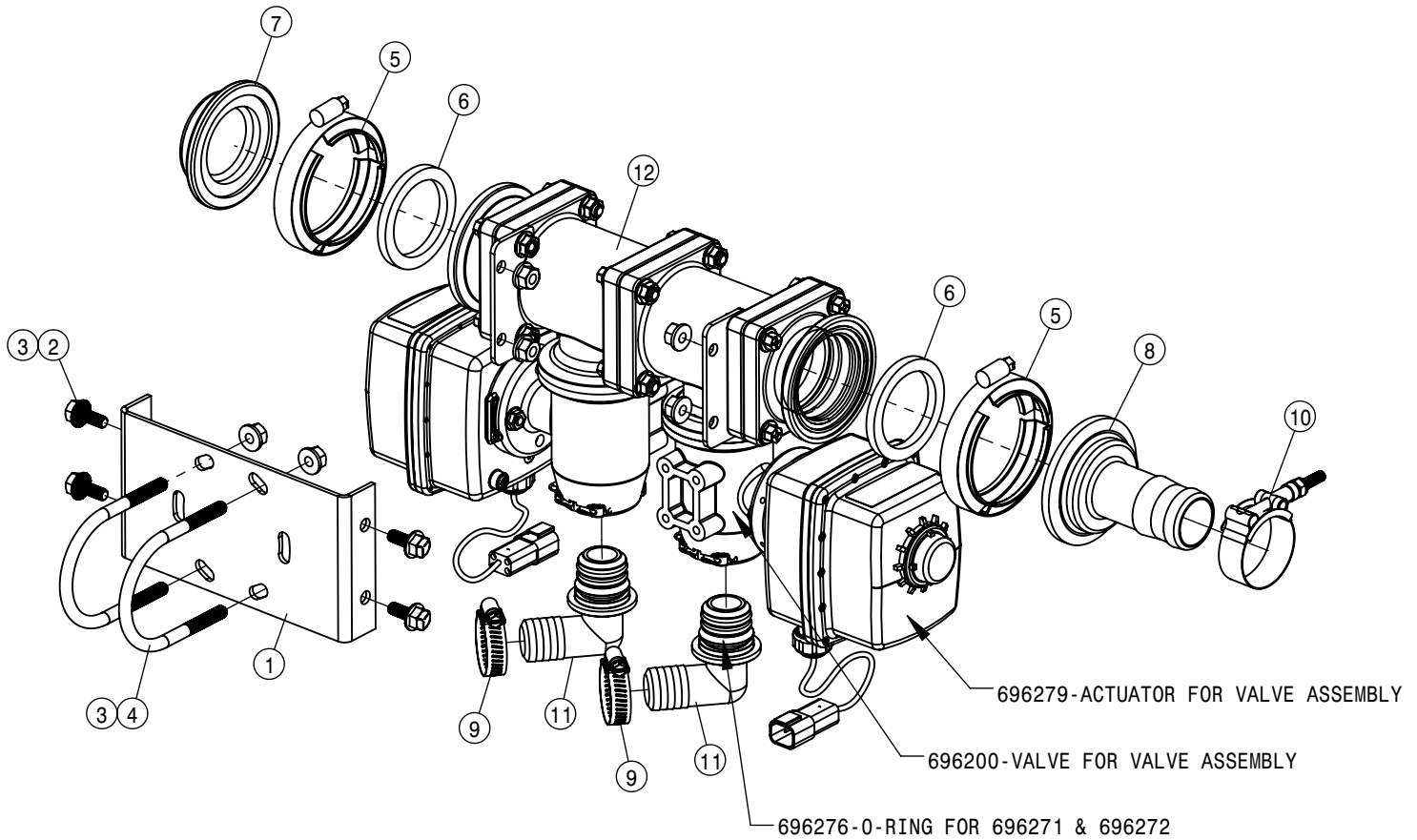
CENTER SOLUTION VALVE ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	500157	1" FLANGE GASKET EPDM
2	2	500158	1 1/2" GASKET FOR 2" FLANGE
3	1	500159	1" FLANGE CLAMP S.S.
4	3	500160	2" FLANGE CLAMP S.S.
5	1	500161	2" FLANGE-1"FLANGE ADPTR POLY
6	1	500170	1" FLANGE-3/4" HOSE BARB POLY
7	1	500180	2" FLANGE-90-2"FLANGE LBO POLY
8	4	500194	2" FP FLANGE CLAMP S.S.
9	4	500195	2" FP FLANGE GASKET EPDM
10	1	500196	2"FP FLANGE-2"HOSE BARB POLY
11	1	500199	2"FP FLANGE-2"FLAGE REDU POLY
12	2	500255	2"FP FLANGE - 45- 2"HOSE BARB POLY
13	1	500423	2" FP CROSS W/TWO GAGE PORTS
14	1	520070	HOSE CLAMP NO 8 STAINLESS
15	1	520080	HOSE CLAMP NO 10 STAINLESS
16	6	520141	2.31/2.62 T-BOLT HOSE CLAMP SS
17	1	618556	1/4NPT-90 1/2 HOSE BARB POLY
18	1	696254	O-RING, KZCO FLANGED VALVE
19	1	696256	VALVE, KZCO C2F-60B-M-S9
20	1	AKK13435	PRESSURE TRANSDUCER, 0-200 PSI



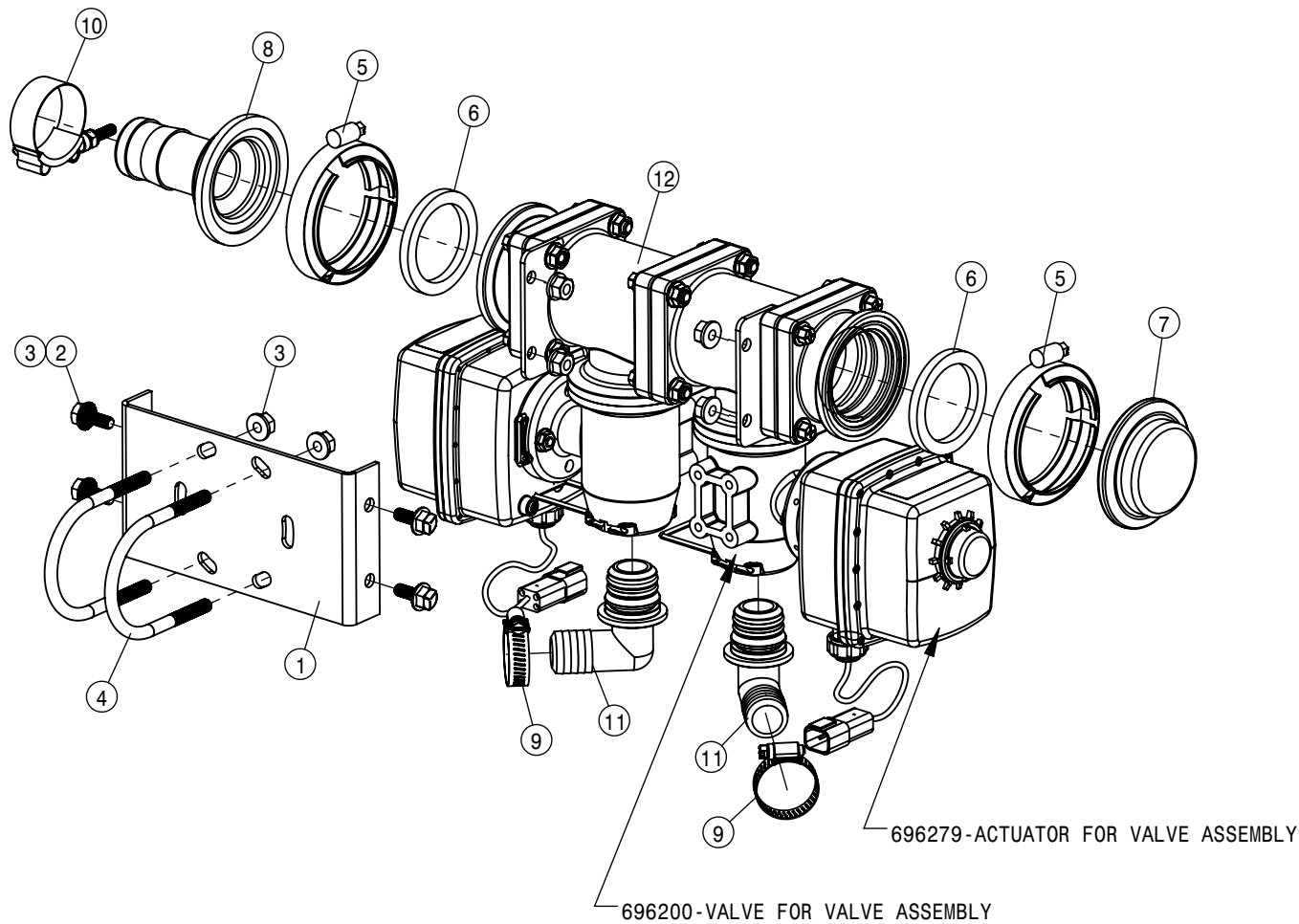
RIGHT INNER SOLUTION VALVE ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	167335	MTG BRKT SLTN VALVE 120' - 1
2	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
3	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
5	2	500194	2" FP FLANGE CLAMP S.S.
6	2	500195	2" FP FLANGE GASKET EPDM
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



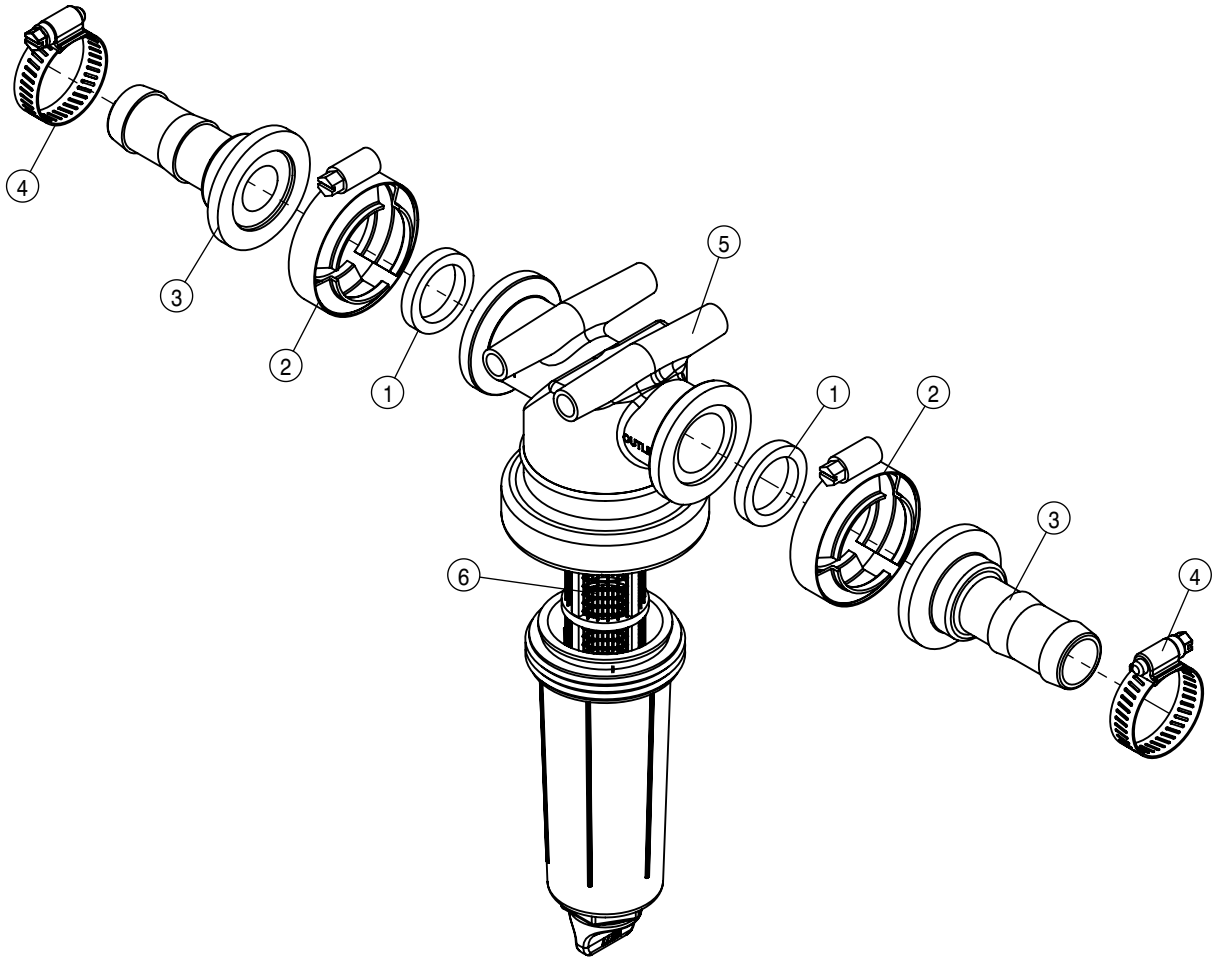
LEFT INNER SOLUTION VALVE ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
1	1	167335	MTG BRKT SLTN VALVE 120' - 1
2	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
3	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
4	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
5	2	500194	2" FP FLANGE CLAMP S.S.
6	2	500195	2" FP FLANGE GASKET EPDM
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



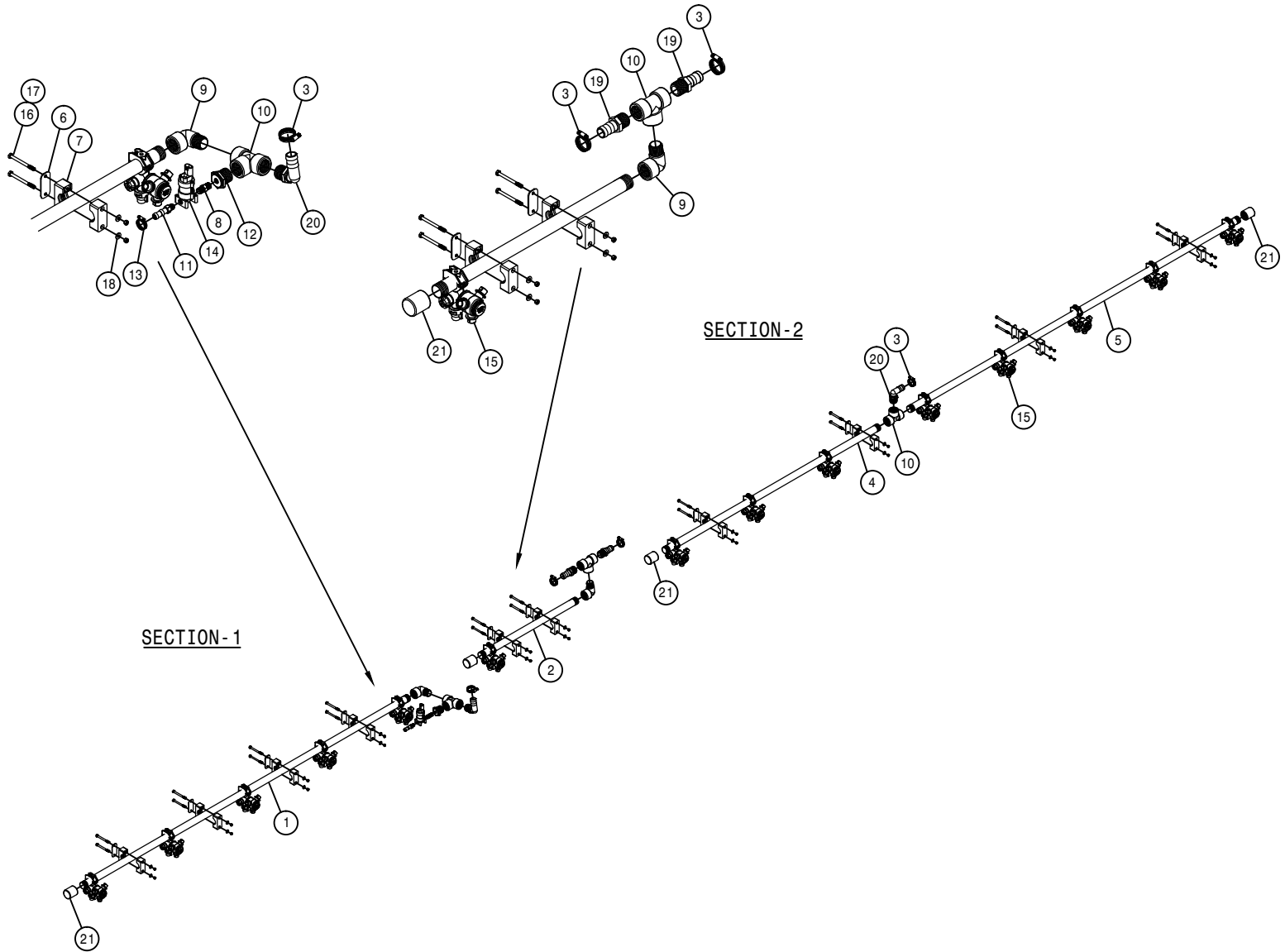
RIGHT OUTER SOLUTION VALVE ASSEMBLY 132'			
DET	QTY	P/N	DESCRIPTION
	1	167335	MTG BRKT SLTN VALVE 120' - 1
	4	470233	5/16UNC X 3/4 HHSFB GR5 MC
	8	470570	5/16-18UNC CTRLK FLG NUT MC GR5
	2	473974	5/16UNC-2 9/16-3 1/2 U-BOLT SS
	2	500194	2" FP FLANGE CLAMP S.S.
	2	500195	2" FP FLANGE GASKET EPDM
	1	500206	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 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 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



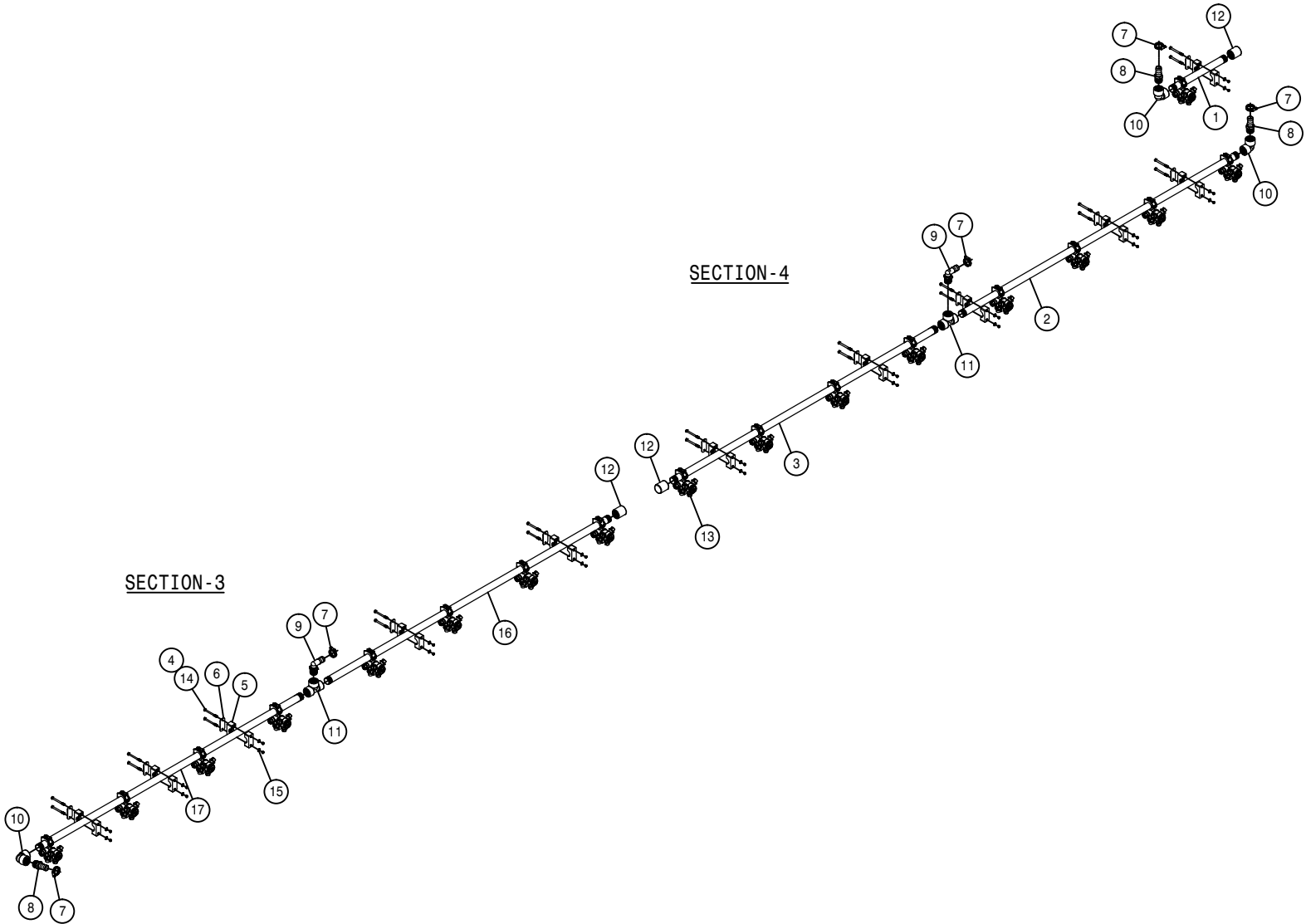
22" WET BOOM SPACING, SECTION 1-2 132'

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 TJET 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

SECTION-3

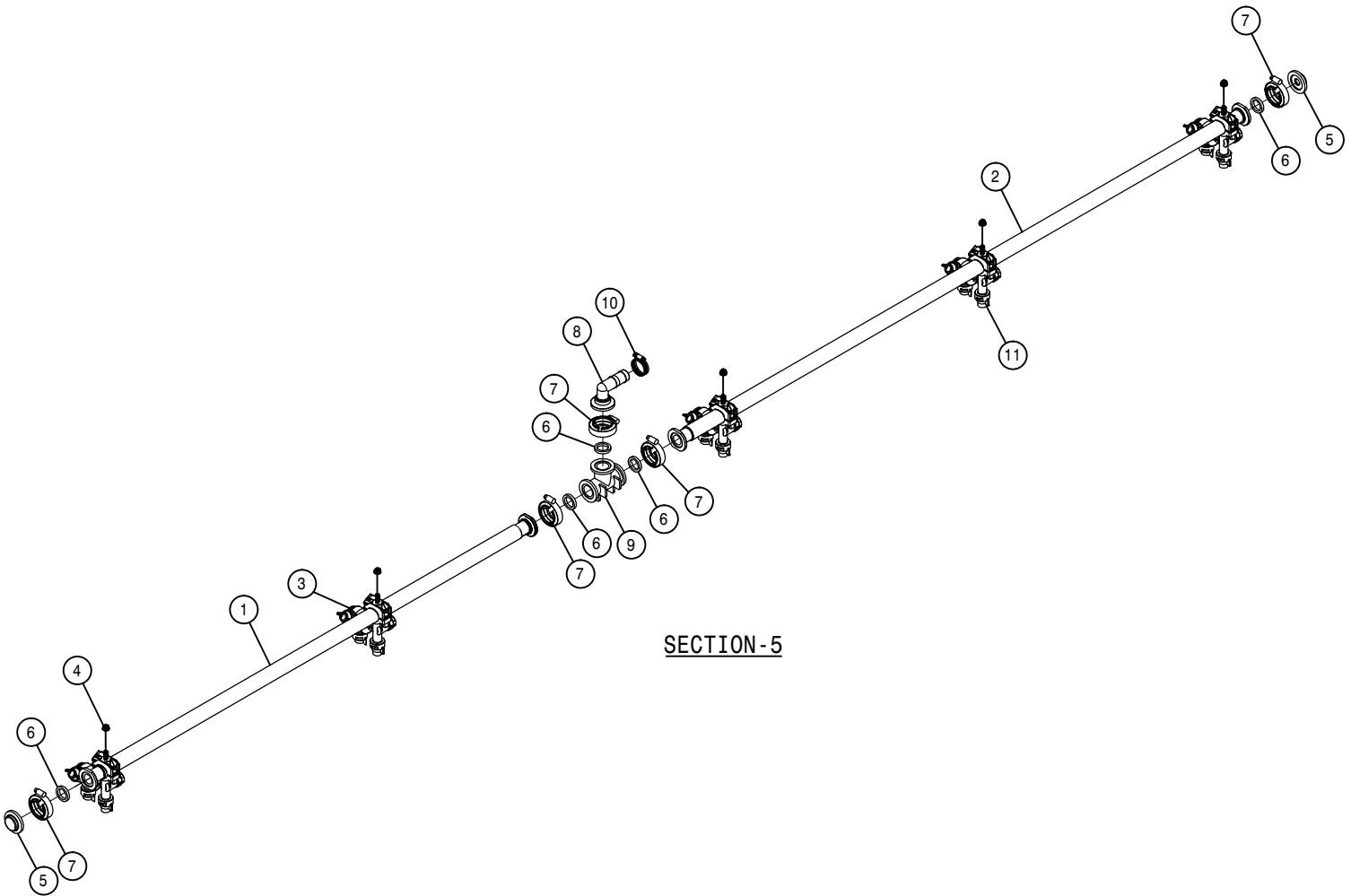
SECTION-4



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

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

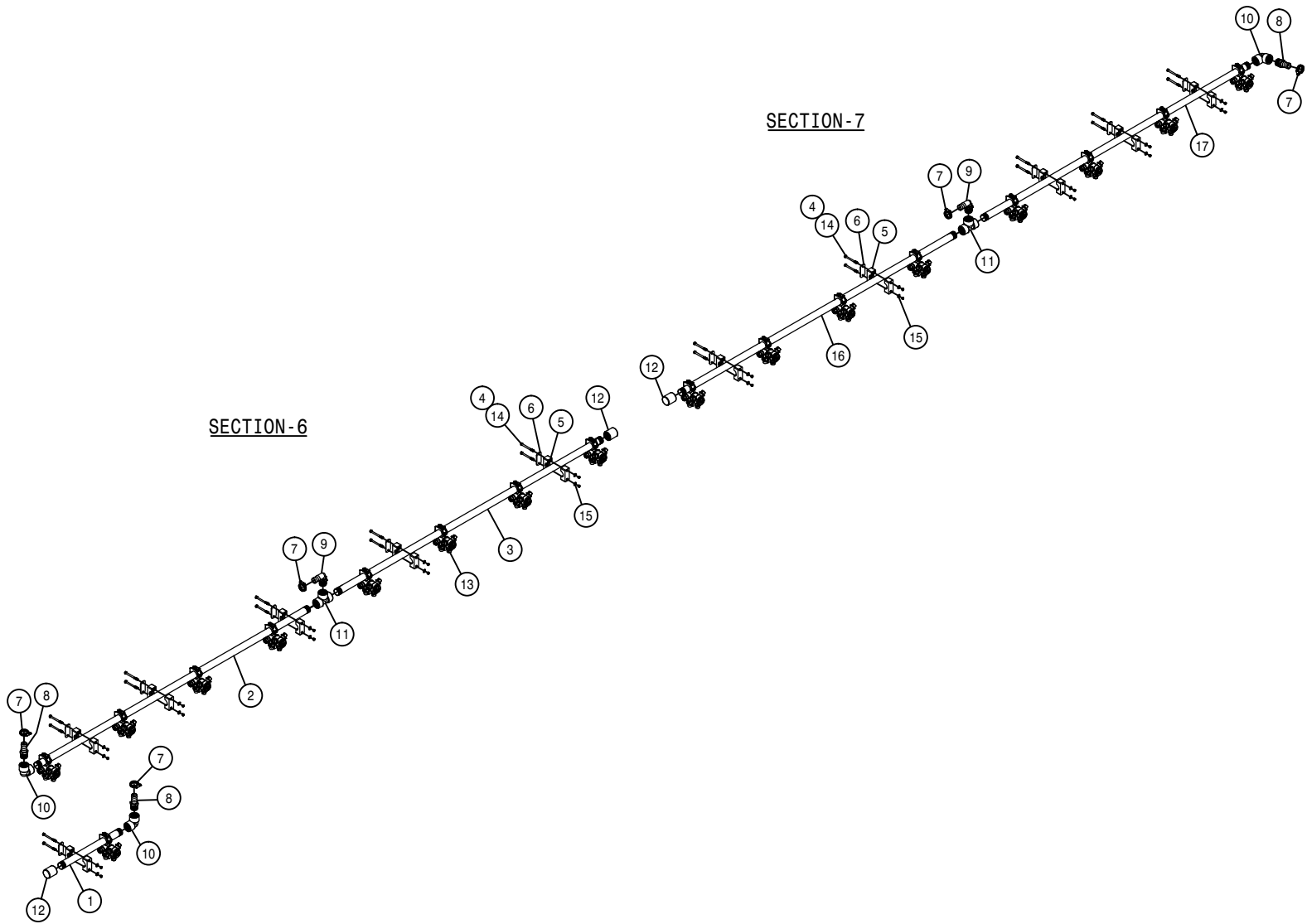


SECTION - 5

22" WET BOOM SPACING, SECTION-5 132'

DET. QTY PART NO. DESCRIPTION

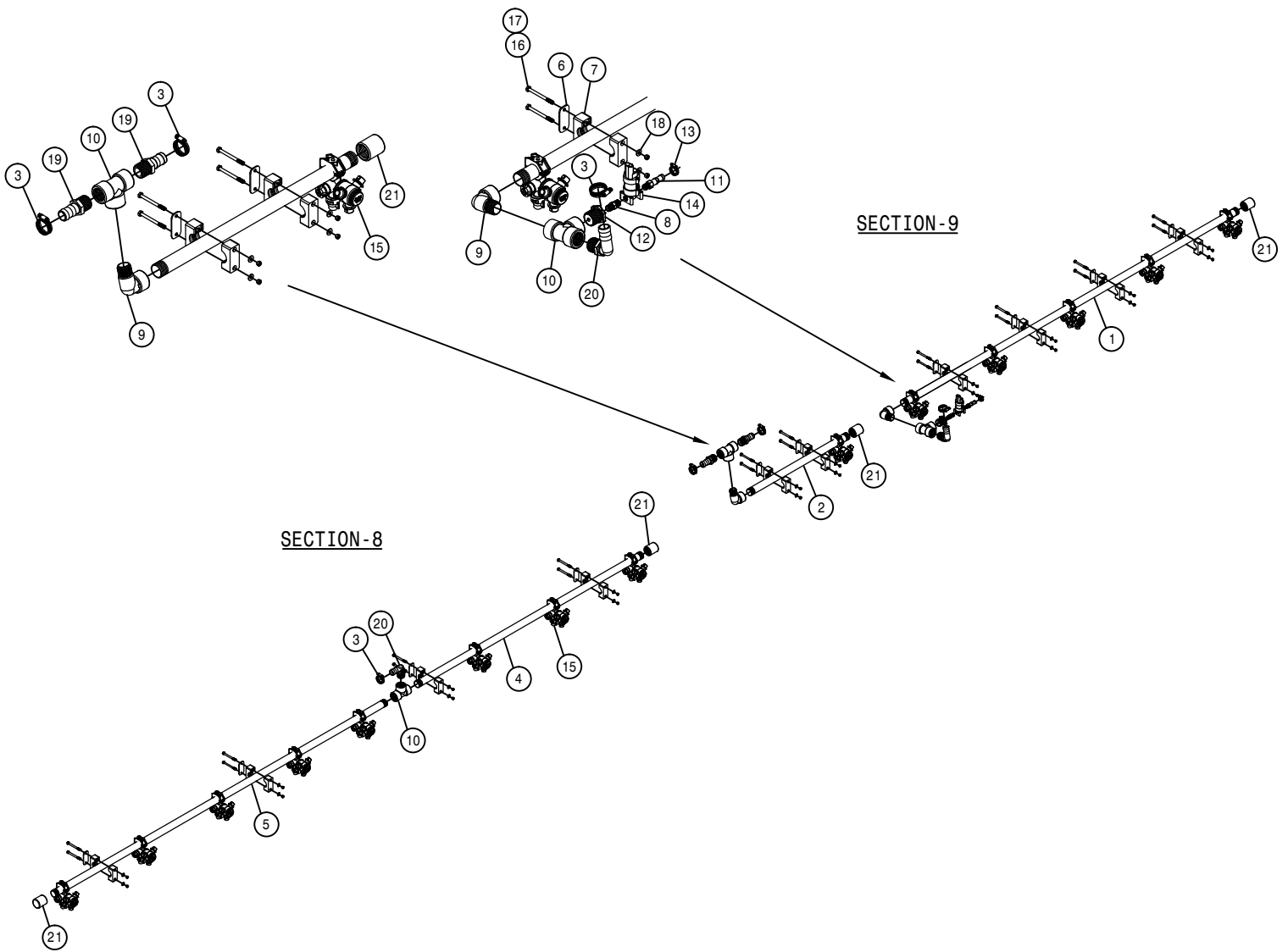
1	1	165678	22" WET BOOM WLD,39.02LG	'12
2	1	165680	22" WET BOOM WLD,49.83LG	'12
3	7	900064	5/16UNC X 3/4 HHCS GR 5	
4	7	470113	5/16UNC SER FLG LOCK NUT	
5	2	500155	1" FLANGE CAP PLUG	POLY
6	5	500157	1" FLANGE GASKET	EPDM
7	5	500159	1" FLANGE CLAMP, S.S.	
8	1	500173	1" FLANGE-90-1" HOSE BARB	POLY
9	1	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'

DET. QTY PART NO. DESCRIPTION

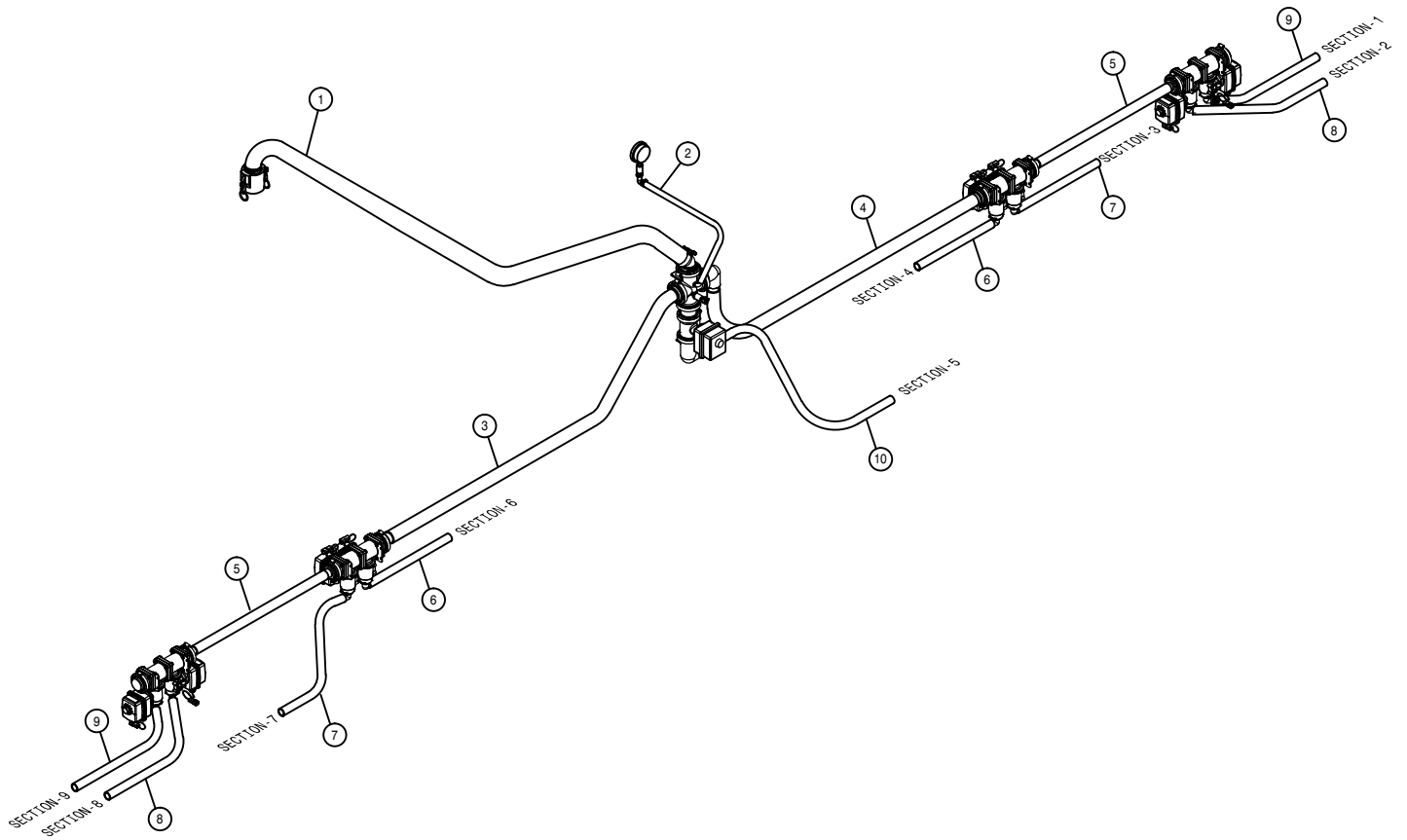
DET.	QTY	PART NO.	DESCRIPTION
1	1	167699	18.50"-21.50 W/ NIPPLES 132'BM
2	1	167700	80.00"-83.00 W/ NIPPLES 132'BM
3	1	167701	71.15"-74.15 W/ NIPPLES 132'BM
4	22	470089	1/4UNC HEX NY-LOC NUT
5	11	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
6	11	470376	COVER PLATE FOR 470375
7	5	520090	HOSE CLAMP NO 16 STAINLESS
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'

DET. QTY PART NO. DESCRIPTION

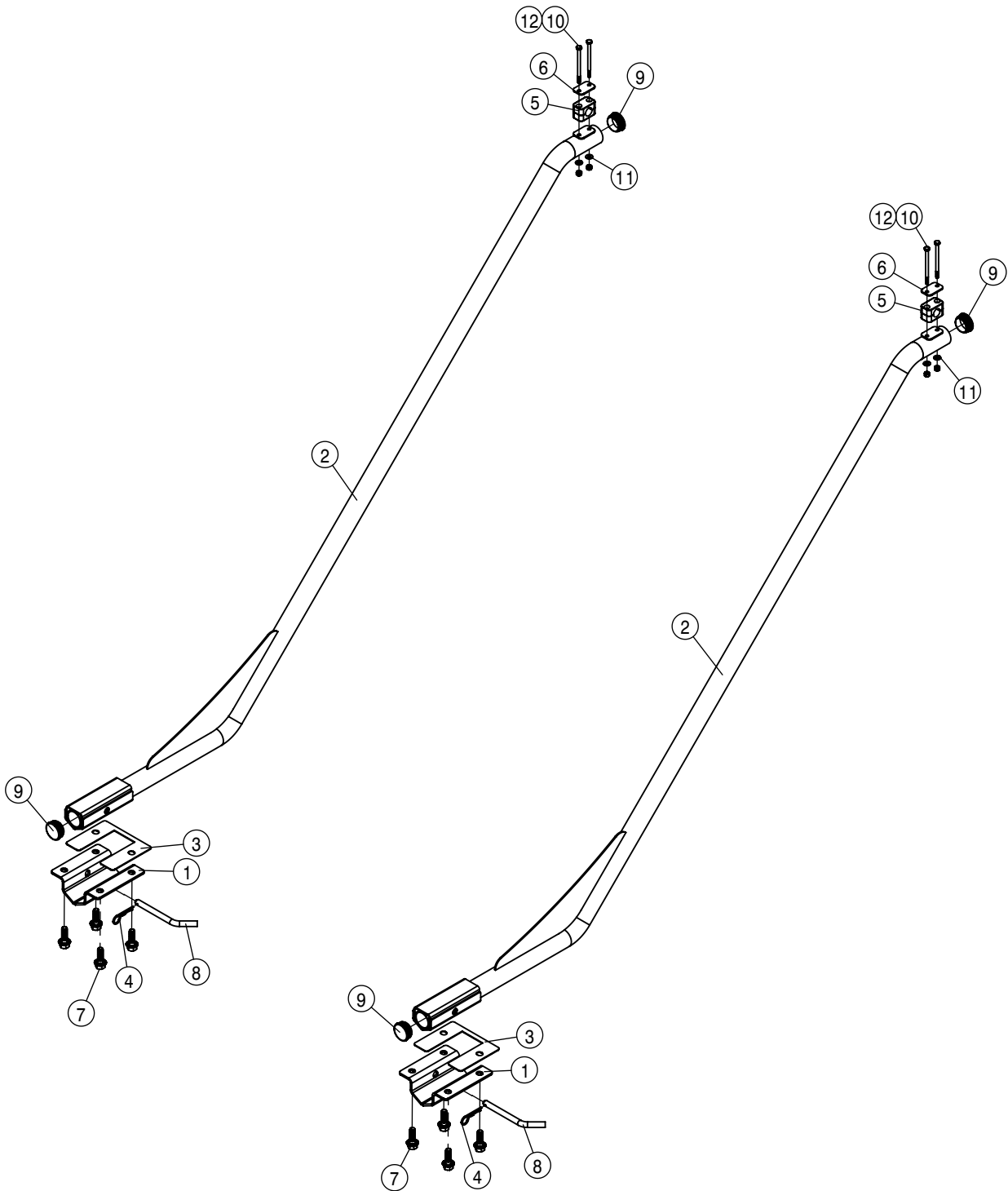
DET.	QTY	PART NO.	DESCRIPTION
1	1	167698	90.00"-93.00 W/ NIPPLES 132'BM
2	1	167697	15.15"-18.15 W/ NIPPLES 132'BM
3	4	520090	HOSE CLAMP NO 16 STAINLESS
4	1	167696	59.00"-62.00 W/ NIPPLES 132'BM
5	1	167695	92.15"-95.15 W/ NIPPLES 132'BM
6	10	470375	TUBE CLAMP BODY, 1.31 ID (PAIR)
7	10	470376	COVER PLATE 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 TJET 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



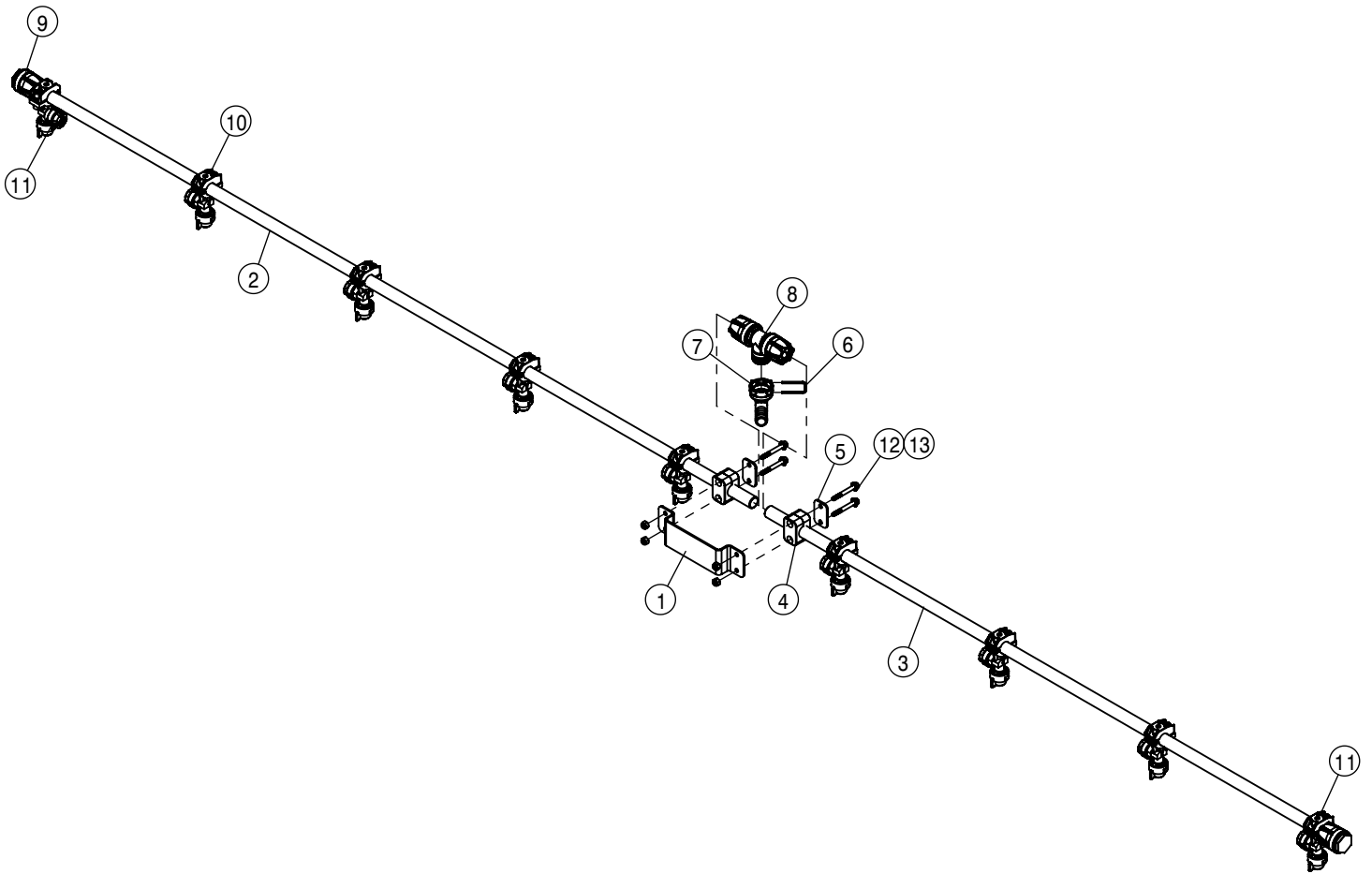
SOLUTION HOSEING 132'

DET. QTY PART NO. DESCRIPTION

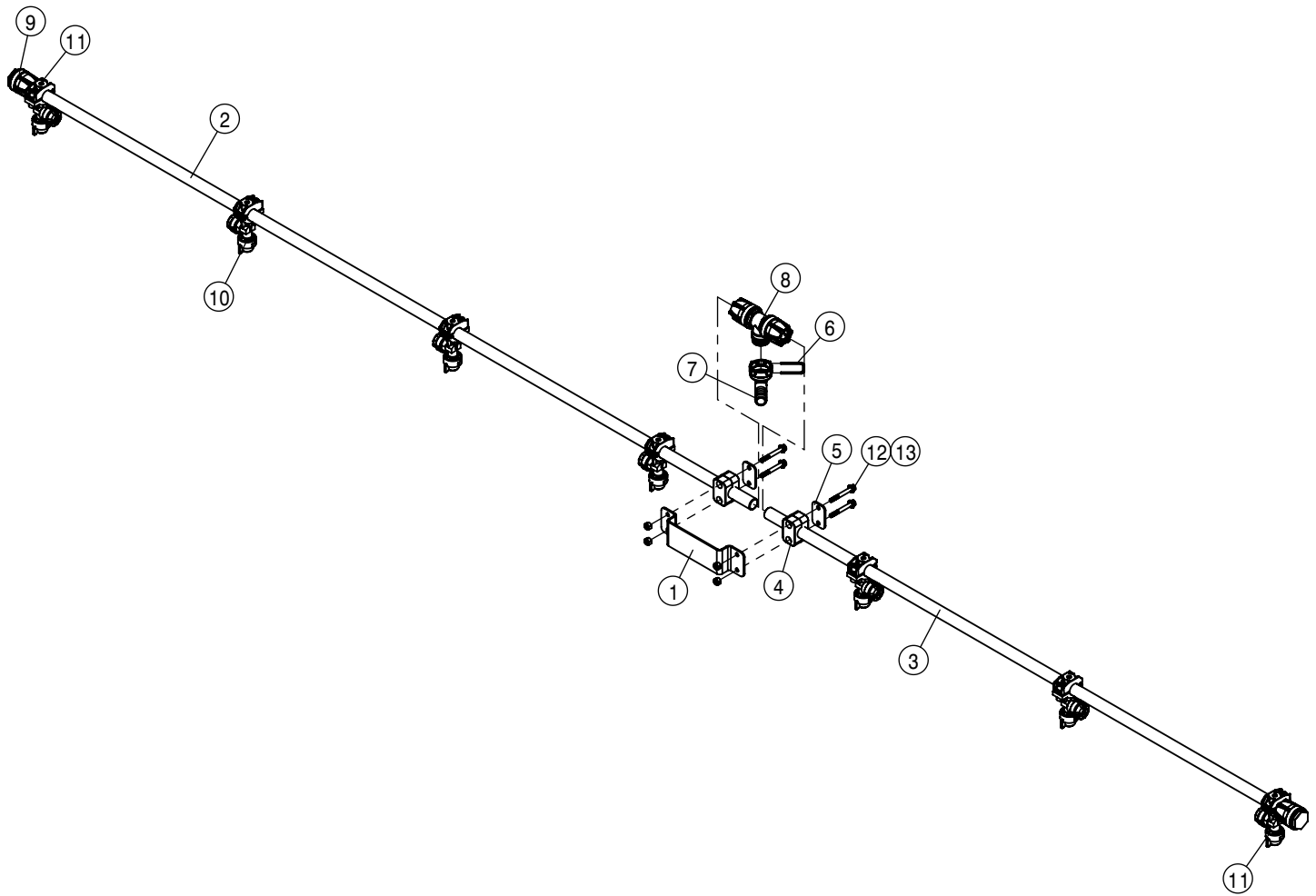
1	1	197133-105	HOSE 2" SUCTION, 2F-1W EPDM
2	1	197008-100	HOSE 1/2 1-FBR BR BLK EPDM
3	1	197133-135	HOSE 2" SUCTION, 2F-1W EPDM
4	1	197133-251	HOSE 2" SUCTION, 2F-1W EPDM
5	2	197124-121	HOSE 1 1/2 2-FBR BR BLK EPDM
6	2	197116-020	HOSE 1IN 1-FBR BR BLK EPDM
7	2	197116-145	HOSE 1IN 1-FBR BR BLK EPDM
8	2	197116-200	HOSE 1IN 1-FBR BR BLK EPDM
9	2	197116-300	HOSE 1IN 1-FBR BR BLK EPDM
10	1	197116-072	HOSE 1IN 1-FBR BR BLK EPDM



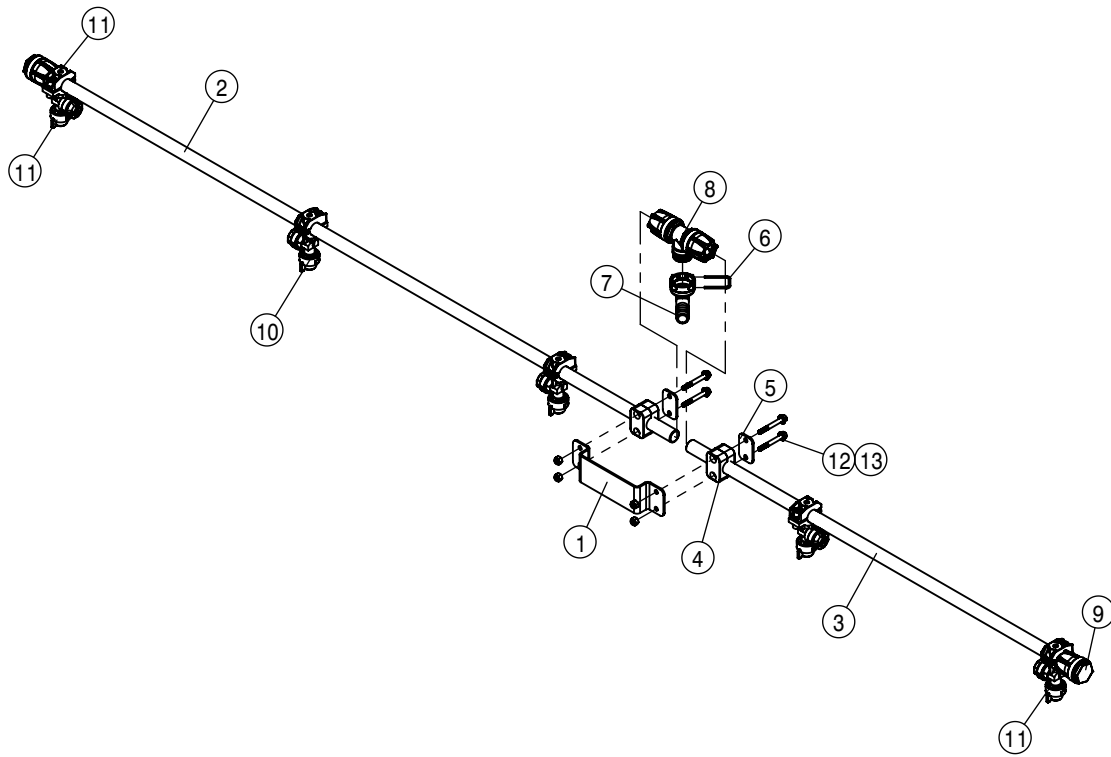
REAR BOOM MOUNTING ASSEMBLY			
DET	QTY	P/N	DESCRIPTION
1	2	165083	REAR BM MT BRKT
2	2	165087	REAR BOOM WLD
3	2	169078	REAR BM SPACER
4	2	470235	HAIR PIN, 1/8 DIA X 2 1/2 LG
5	2	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
6	4	470359	COVER PLATE FOR 470358
7	8	470431	1/2UNC X 1 1/2 HHSFB GR5 MC
8	2	472382	BENT PIN 1/2 X 4
9	4	629772	CAPLUGS PLUG, 1 3/4" RD, BLACK POLY
10	4	900470	1/4UNC X 3 3/4 HHCS SS
11	4	910112	SAE FLAT WASHER 1/4 SS
12	4	910118	1/4-20UNC NYLOCK NUT SS



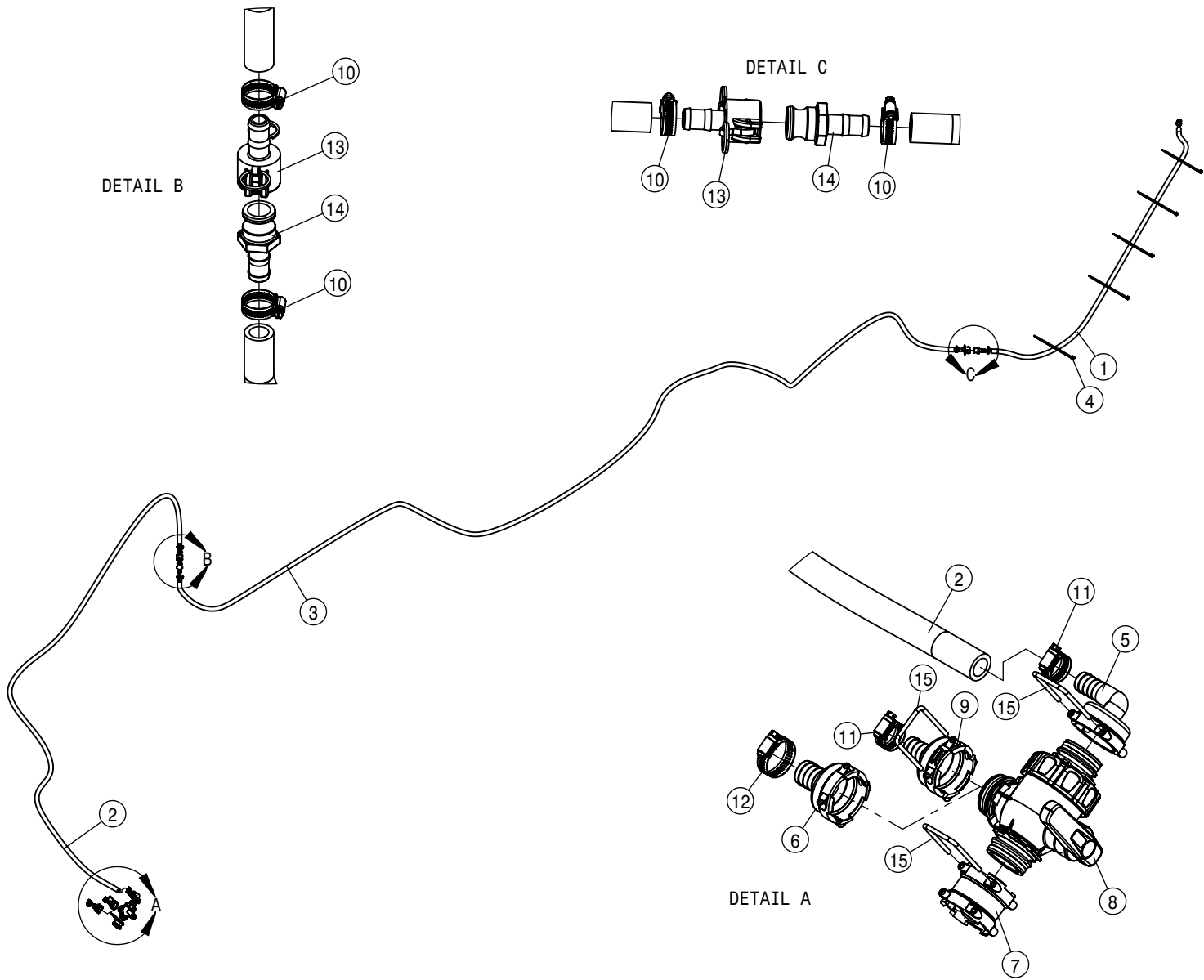
REAR BOOM NOZZLE, 15° SPACING			
DET	QTY	P/N	DESCRIPTION
1	1	165088	REAR BM SOL SUPP BRK
2	1	167264	TUBE-WET BM .50X69.08 15° SP
3	1	167265	TUBE-WET BM .50X54.08 15° SP
4	2	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
5	2	470359	COVER PLATE FOR 470358
6	1	500311	FORK D3 DIST 29
7	1	500327	T3 TO 20MM HB 90
8	1	500330	T3 - TEE 1/2" PIPE BOOM END
9	2	500332	1/2" PIPE BOOM END
10	7	737970	QUICK TJET SINGLE BODY, 1/2"
11	2	737971	QUICK TJET SINGLE BODY 1/2" RS
12	4	900464	1/4UNC X 2 HHSFB SS
13	4	910118	1/4-20UNC NYLOCK NUT SS



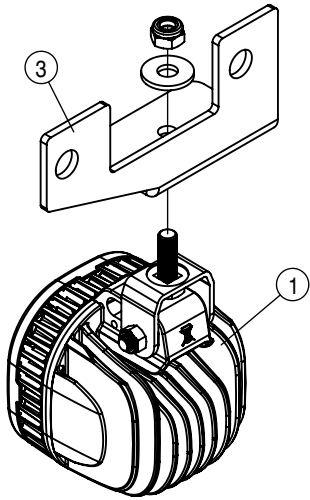
REAR BOOM NOZZLE, 20" SPACING			
DET	QTY	P/N	DESCRIPTION
1	1	165088	REAR BM SOL SUPP BRK
2	1	167466	TUBE-WET BM .5X71.58 20"SP
3	1	167467	TUBE-WET BM .5X51.58 20"SP
4	2	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
5	2	470359	COVER PLATE FOR 470358
6	1	500311	FORK D3 DIST 29
7	1	500327	T3 TO 20MM HB 90
8	1	500330	T3 - TEE 1/2" PIPE BOOM END
9	2	500332	1/2" PIPE BOOM END
10	5	737970	QUICK TJET SINGLE BODY, 1/2"
11	2	737971	QUICK TJET SINGLE BODY 1/2" RS
12	4	900464	1/4UNC X 2 HHSFB SS
13	4	910118	1/4-20UNC NYLOCK NUT SS



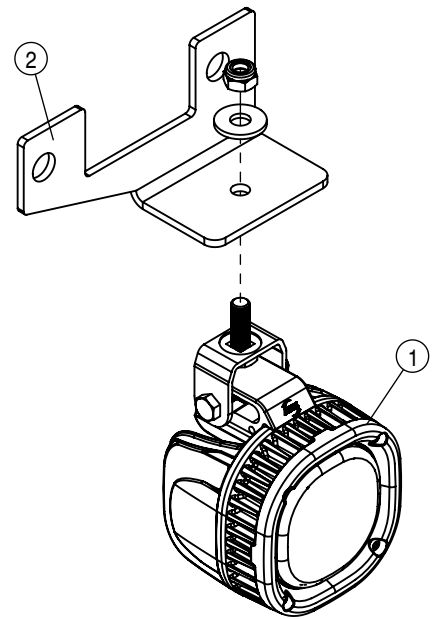
REAR BOOM NOZZLE, 22" SPACING			
DET	QTY	P/N	DESCRIPTION
1	1	165088	REAR BM SOL SUPP BRK
2	1	167468	TUBE-WET BM .5X56.58 22" SP
3	1	167469	TUBE-WET BM .5X34.58 22"SP
4	2	470358	TUBE CLAMP BODY, .840 (1/2 PIPE)
5	2	470359	COVER PLATE FOR 470358
6	1	500311	FORK D3 DIST 29
7	1	500327	T3 TO 20MM HB 90
8	1	500330	T3 - TEE 1/2" PIPE BOOM END
9	2	500332	1/2" PIPE BOOM END
10	3	737970	QUICK TJET SINGLE BODY, 1/2"
11	2	737971	QUICK TJET SINGLE BODY 1/2" RS
12	4	900464	1/4UNC X 2 HHSFB SS
13	4	910118	1/4-20UNC NYLOCK NUT 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	500307	T5 FEMALE TO 25MM HB
7	1	503112	T5 - FEMALE COUPLING
8	1	503113	T5 - 455 3-WAY BALL VLV
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	1	520090	HOSECLAMP NO 16 STAINLESS
13	2	696207	.75 HOSE BARB-FEMALE COUPLER
14	2	696208	.75 HOSE BARB-MALE COUPLER
15	3	737738	FORK,D.3 DIST.42 (737731)



RIGHT SIDE

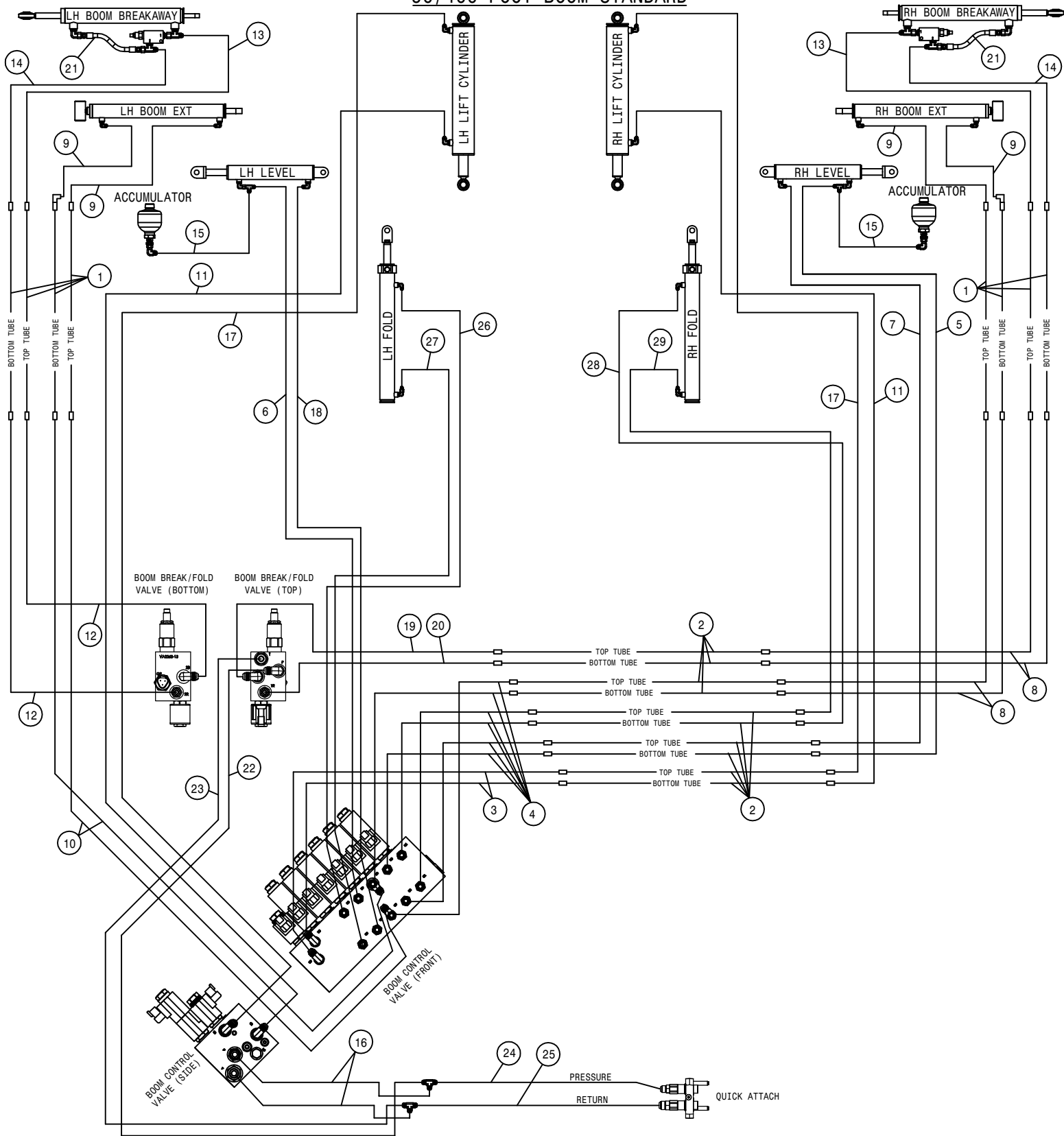


LEFT SIDE

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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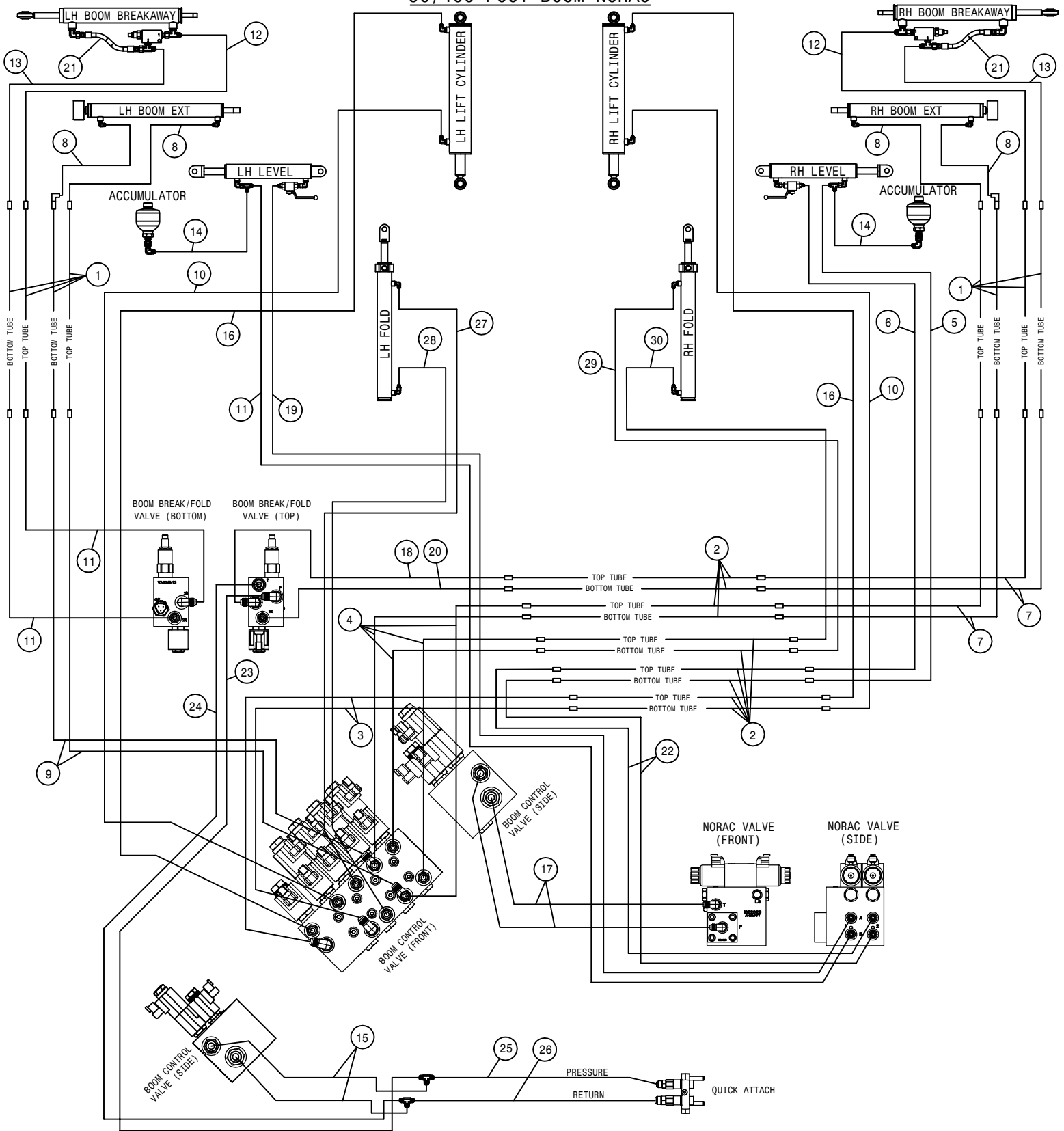
90/100 FOOT BOOM-STANDARD



90/100 BOOM STANDARD HYD DIAG 2017-18
REFERENCE DRAWING NO. 499369_RevA

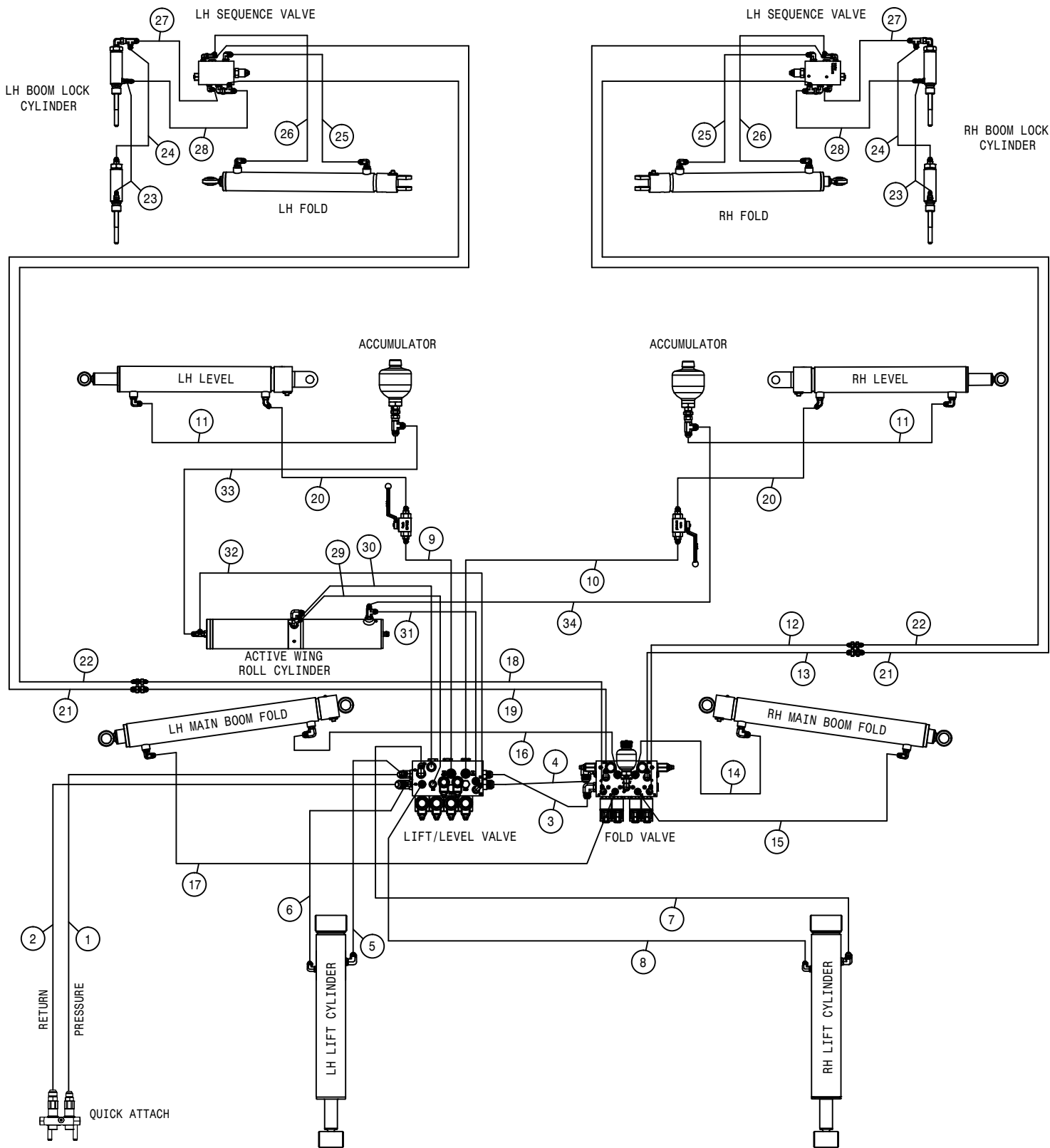
DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION
1	8	615851	HYD TUBE,MAIN BOOM,STS	16	2	616366	08-451TC-08FJX-08FJX90-18 H/A
2	10	615852	LIFTARM HYD TUBE ASSY,STSL5 07	17	2	616371	06-451TC-06FJX-06FJX-38 H/A
3	2	616304	06-451TC-06FJX-06FJX-36 H/A	18	1	616403	06-451TC-06FJX-06FJX-65 H/A
4	6	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



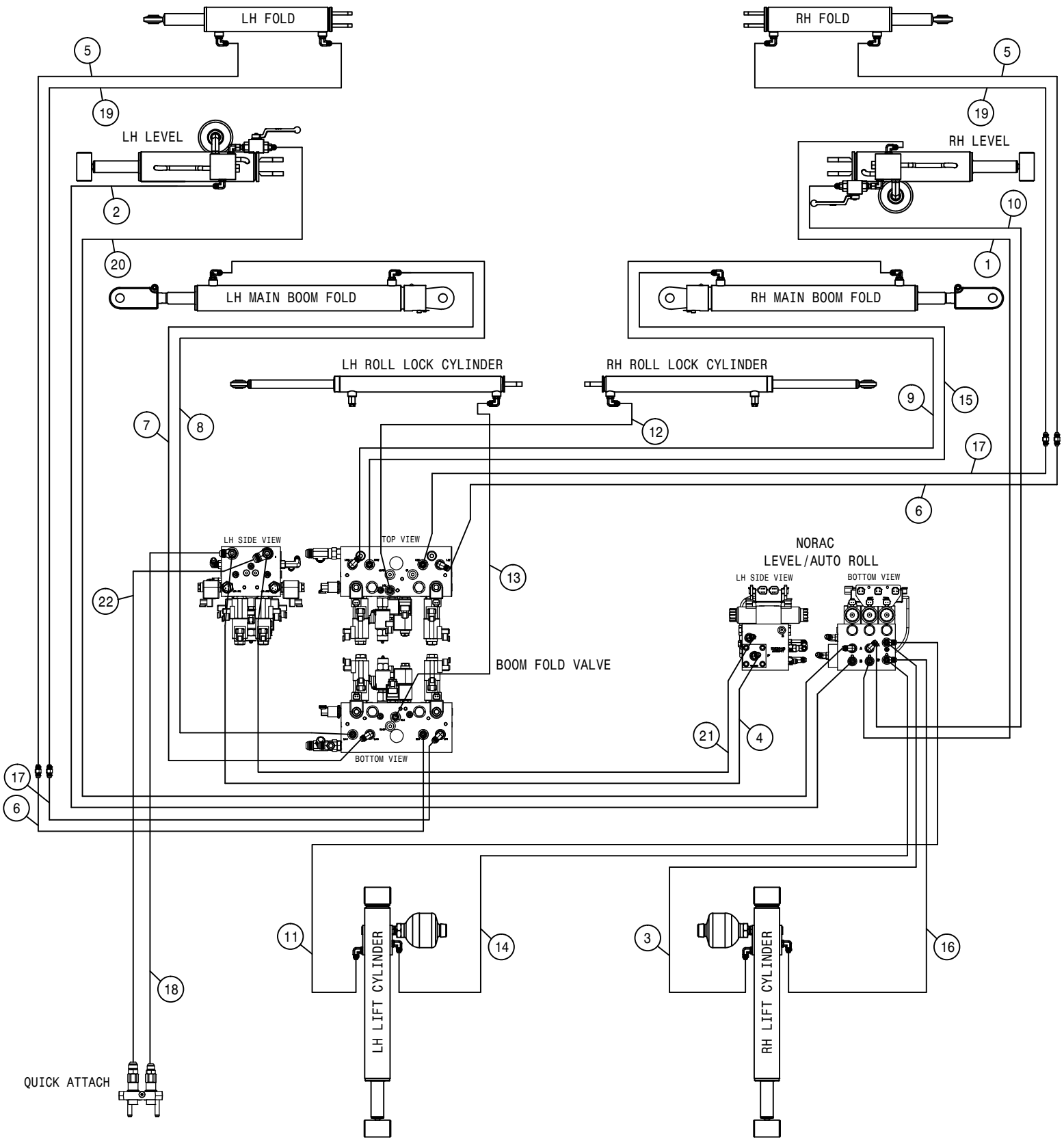
90/100 BOOM NORAC HYD DIAG 2017-18
 REFERENCE DRAWING NO. 499370_RevA

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



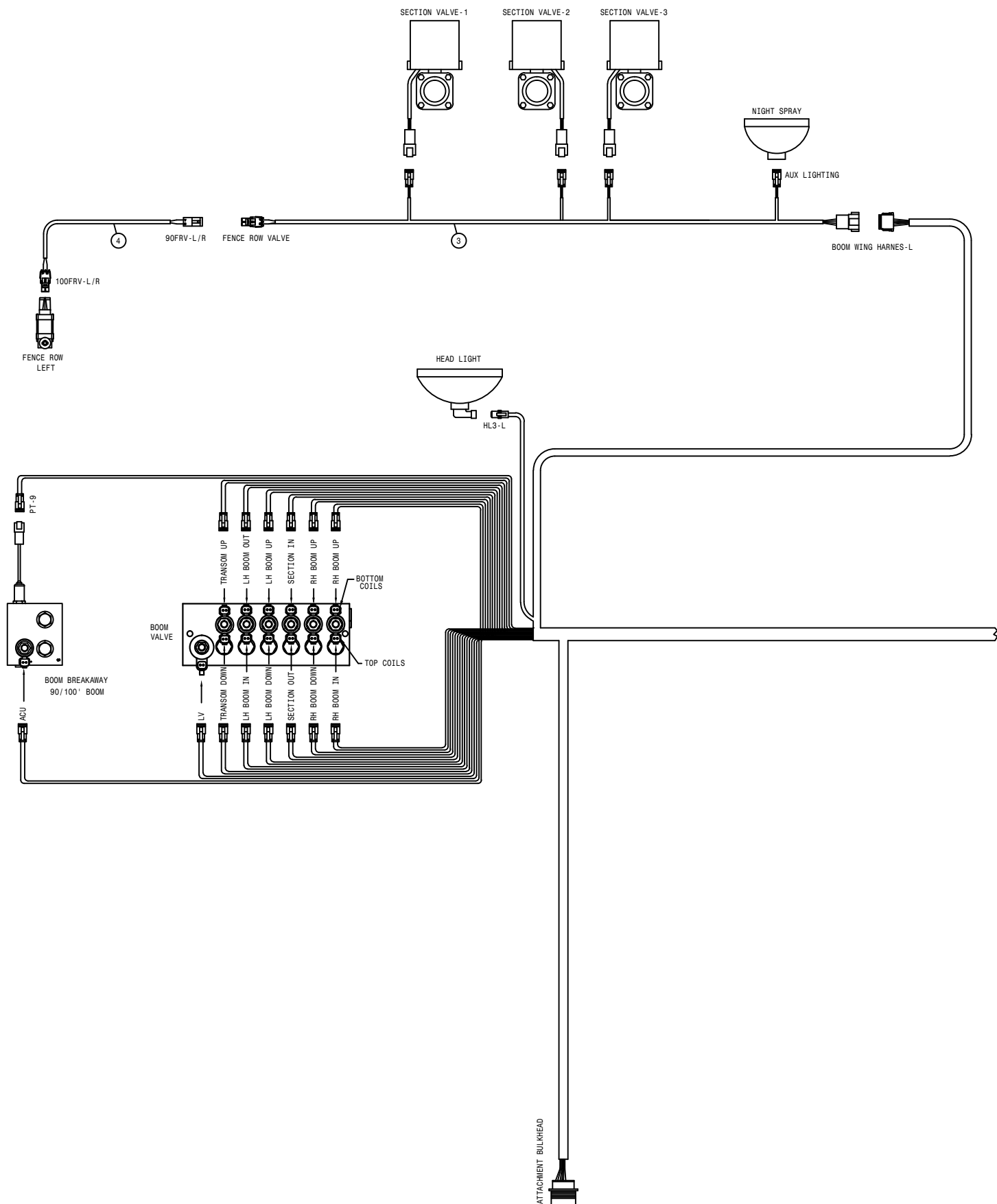
120' HYBRID BOOM HYD DIAGRAM 2018
 REFERENCE DRAWING NO. 499412_RevA

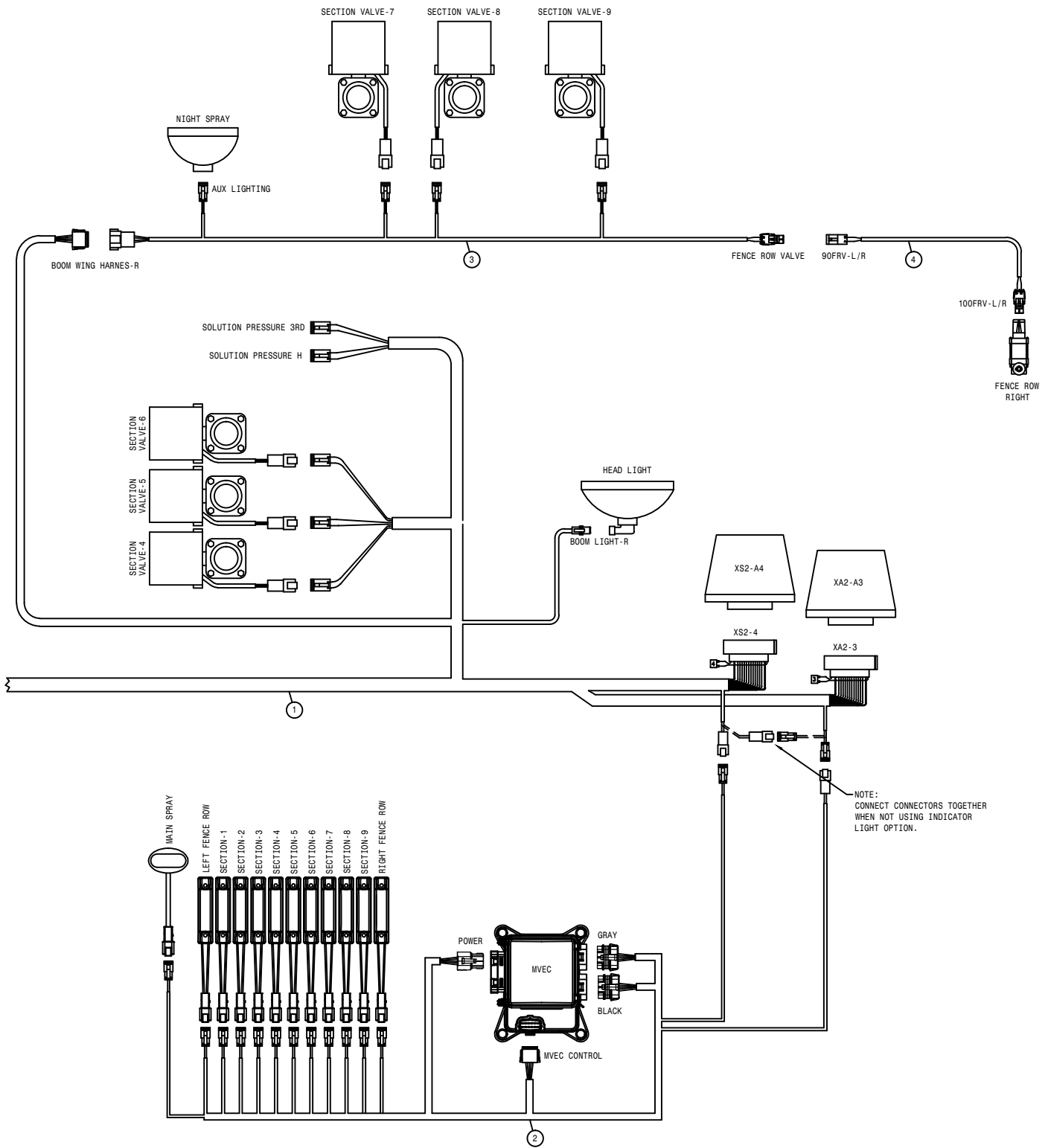
DET.	QTY	PART NO.	DESCRIPTION		DET.	QTY	PART NO.	DESCRIPTION	
1	1	617215	10-451TC-10FJX-10FJX-116	H/A	18	1	617434	04-451TC-04FJX-04FJX-72	H/A
2	1	617216	12-451TC-12FJX-12FJX-114	H/A	19	1	617435	04-451TC-06FJX-06FJX-70	H/A
3	1	617217	10-451TC-10FJX-10FJX90-26	H/A	20	2	617437	06-451TC-06FJX-06FJX-34	H/A
4	1	617218	12-451TC-12FJX-12FJX90-28	H/A	21	2	617438	04-451TC-06FJX-06FJX90-328	H/A
5	1	617219	06-451TC-08FJX-08FJX90-121	H/A	22	2	617439	04-451TC-04FJX-04FJX-331	H/A
6	1	617220	06-451TC-06FJX-06FJX90-120	H/A	23	2	617440	04-451TC-04FJX-04FJX90-14.5	H/A
7	1	617221	06-451TC-08FJX-08FJX-147	H/A	24	2	617441	04-451TC-06FJX-06FJX45-15	H/A
8	1	617222	06-451TC-06FJX-06FJX90-151	H/A	25	2	617442	04-451TC-06FJX-06FJX-35	H/A
9	1	617223	06-451TC-06FJX-08FJX90-70	H/A	26	2	617443	04-451TC-06FJX-04FJX90-40	H/A
10	1	617224	06-451TC-06FJX-08FJX90-94	H/A	27	2	617444	04-451TC-04FJX-06FJX45-19	H/A
11	2	619095	06-451TC-06FJX-08FJX90-45	H/A	28	2	617445	04-451TC-04FJX-06FJX45-14	H/A
12	1	617428	04-451TC-04FJX-04FJX-49	H/A	29	1	619092	06-451TC-06FJX-06FJX90-33	H/A
13	1	617429	04-451TC-06FJX-06FJX-47	H/A	30	1	619091	06-451TC-08FJX-08FJX-29	H/A
14	1	617430	04-451TC-08FJX-06FJX90-45	H/A	31	1	619171	06-451TC-06FJX-06FJX90-25	H/A
15	1	617431	04-451TC-06FJX-04FJX90-52	H/A	32	1	619090	06-451TC-06FJX-06FJX45-55	H/A
16	1	617432	04-451TC-08FJX-06FJX90-68	H/A	33	1	616365	06-451TC-08FJX-06FJX90-30	H/A
17	1	617433	04-451TC-06FJX-04FJX90-74	H/A	34	1	619093	06-451TC-08FJX-06FJX90-101	H/A



STS 132' ALUM HYD DIAGRAM 2018
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DET.	QTY	PART NO.	DESCRIPTION	DET.	QTY	PART NO.	DESCRIPTION
1	1	617167	06-451TC-08FJX-06FJX90-106 H/A	12	1	616580	06-451TC-06FJX-06FJX90-34 H/A
2	1	617168	06-451TC-08FJX-06FJX90-141 H/A	13	1	617006	06-451TC-06FJX-06FJX90-25 H/A
3	1	617166	06-451TC-08FJX-06FJX90-171 H/A	14	1	616875	06-451TC-06FJX-06FJX90-171 H/A
4	1	617008	06-451TC-06FJX-08FJX-32 H/A	15	1	616593	06-451TC-06FJX-06FJX90-38 H/A
5	2	617045	04-451TC-06FJX-06FJX-315 H/A	16	1	616974	06-451TC-06FJX-06FJX-133 H/A
6	2	616119	04-451TC-06FJX-06FJX-175 H/A	17	2	616866	04-451TC-06FJX-06FJX90-178 H/A
7	1	616349	06-451TC-06FJX-06FJX-47 H/A	18	1	617161	08-451TC-08FJX-10FJX-152 H/A
8	1	616585	06-451TC-06FJX-06FJX90-62 H/A	19	2	617044	04-451TC-06FJX-06FJX-295 H/A
9	1	616351	06-451TC-06FJX-06FJX-60 H/A	20	1	616563	06-451TC-06FJX-06FJX-141 H/A
10	1	616646	06-451TC-06FJX-06FJX45-106 H/A	21	1	617163	08-451TC-06FJX-10FJX45-29 H/A
11	1	617165	06-451TC-06FJX-08FJX-133 H/A	22	1	617162	10-451TC-10FJX-12FJX-152 H/A





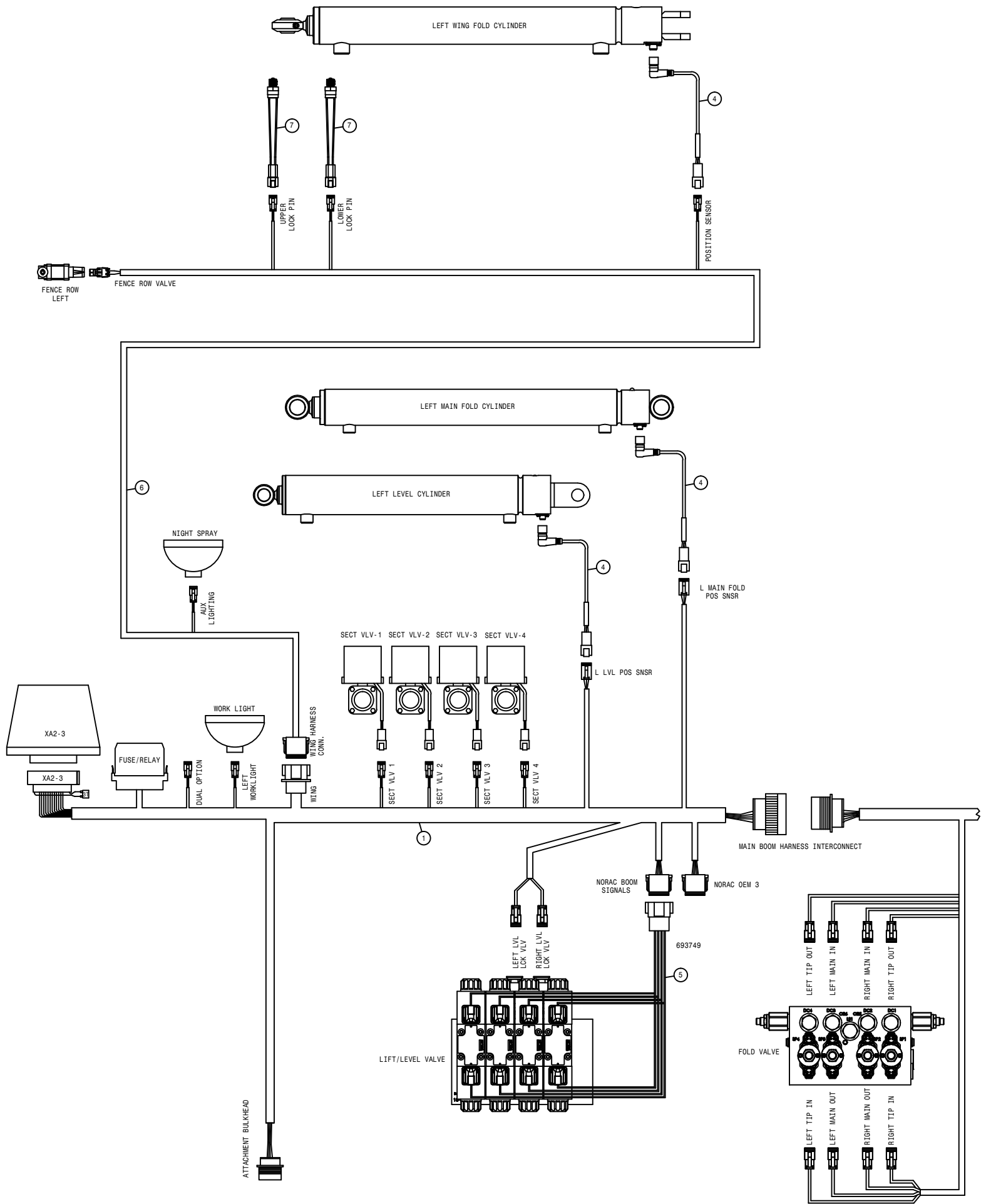
4	2	293860	FENCE ROW EXT HARNESS 100'STS
3	2	294351	HARNESS, 90/100 WING STS'17
2	1	294284	SPRAY SECT LIGHT HARNESS(MVEC)
1	1	294350	HARNESS, 90/100 BOOM STS'17

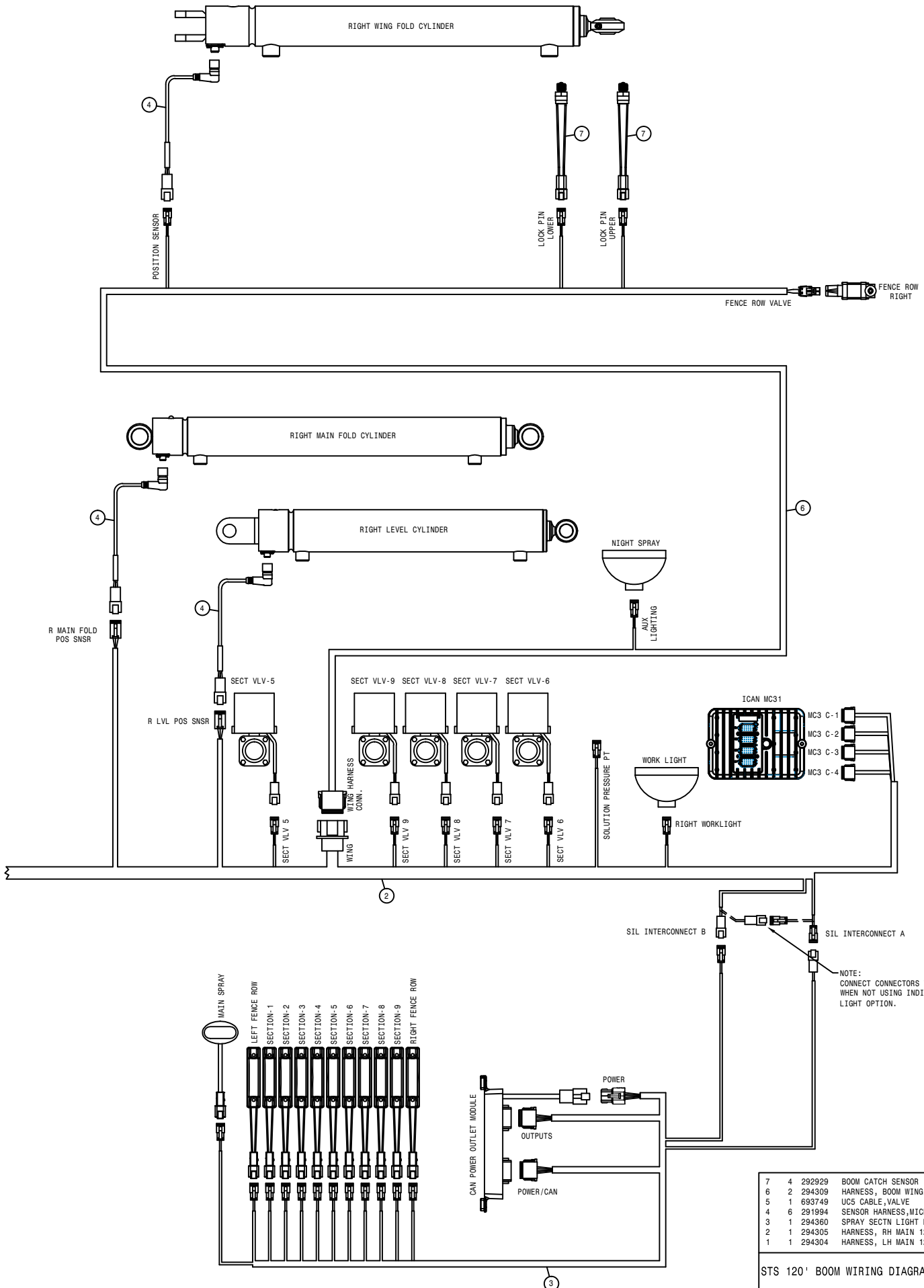
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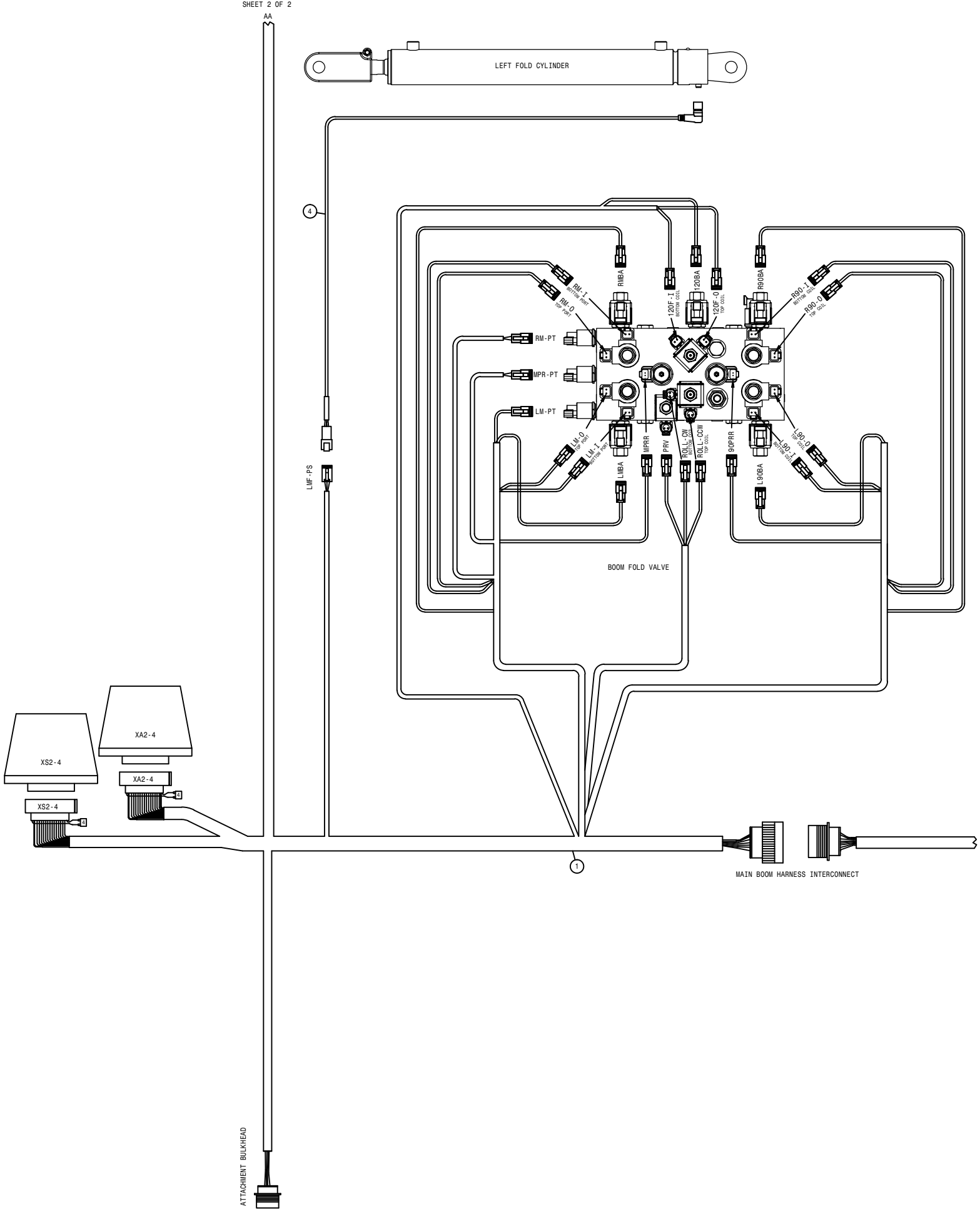
STS 90/100 BOOM WIRING DIAGRAM 2018

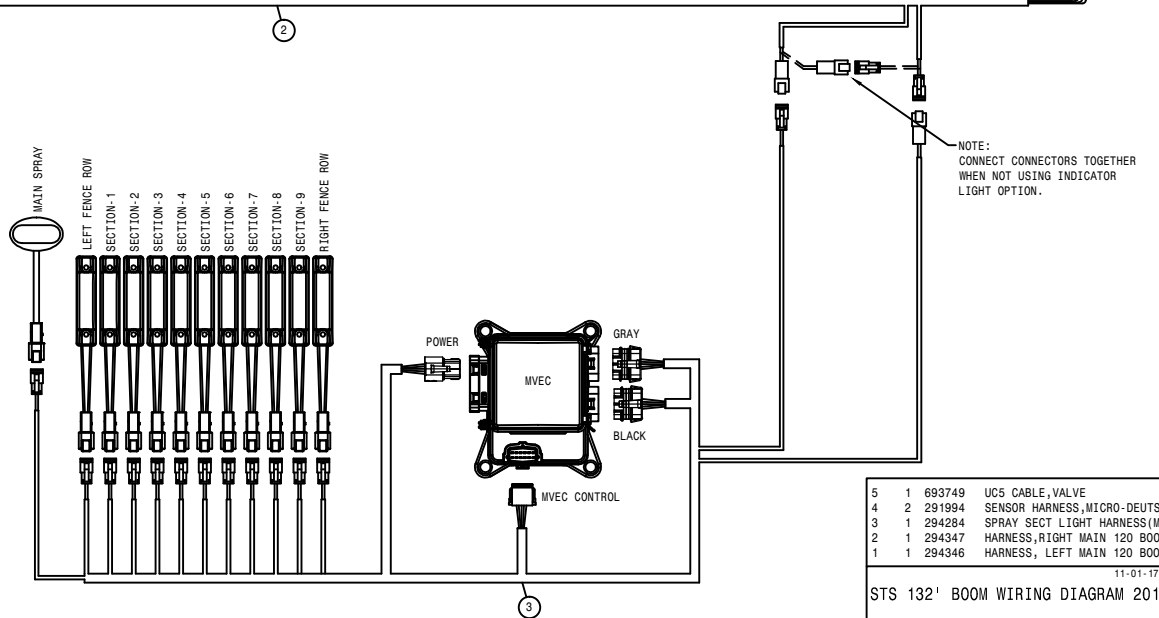
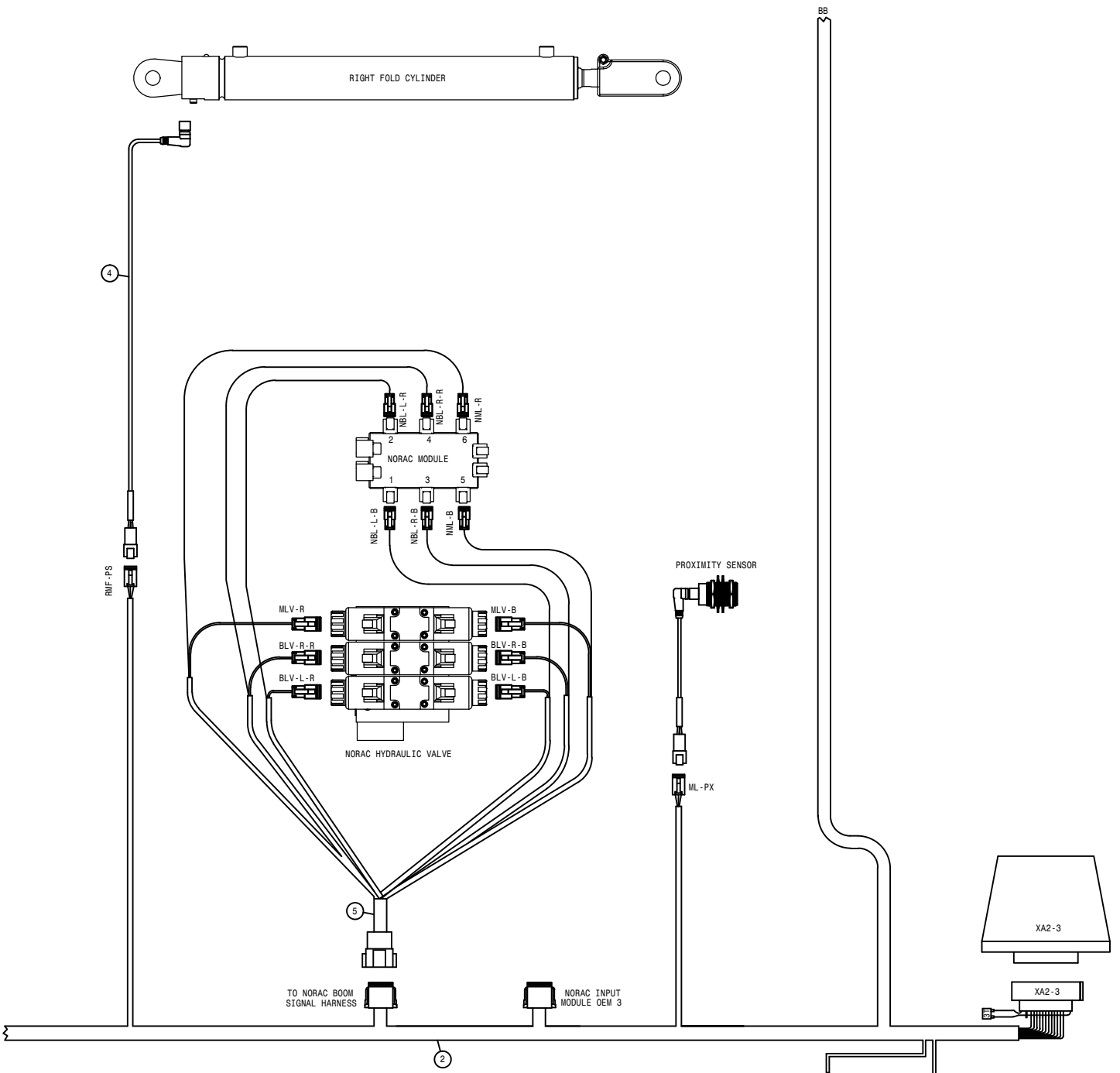
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REV_A 10-31-17









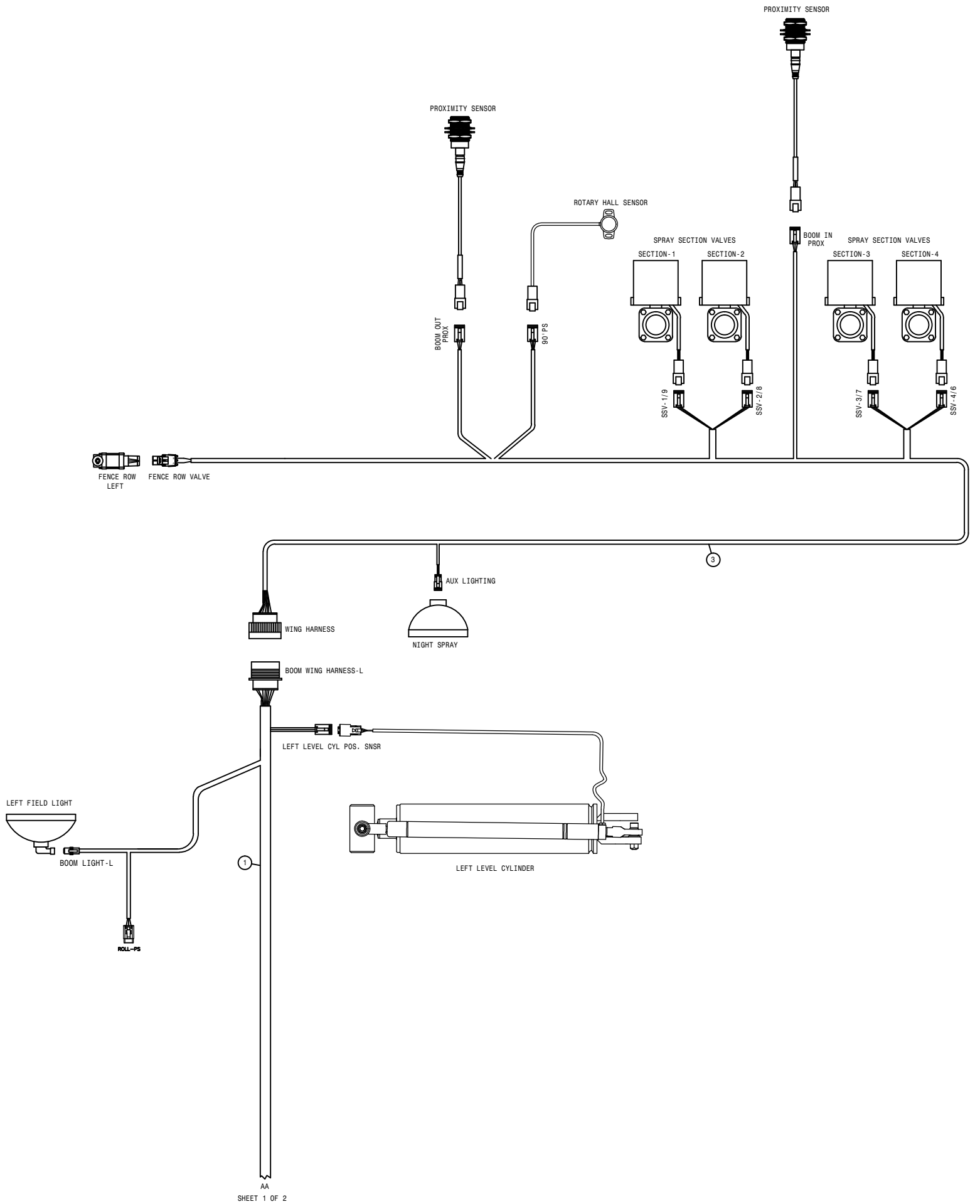
5	1	693749	UCS CABLE, VALVE
4	2	291994	SENSOR HARNESS, MICRO-DEUTSCH
3	1	294284	SPRAY SECT LIGHT HARNESS (MVEC)
2	1	294347	HARNESS, RIGHT MAIN 120 BOOM '17
1	1	294346	HARNESS, LEFT MAIN 120 BOOM '17

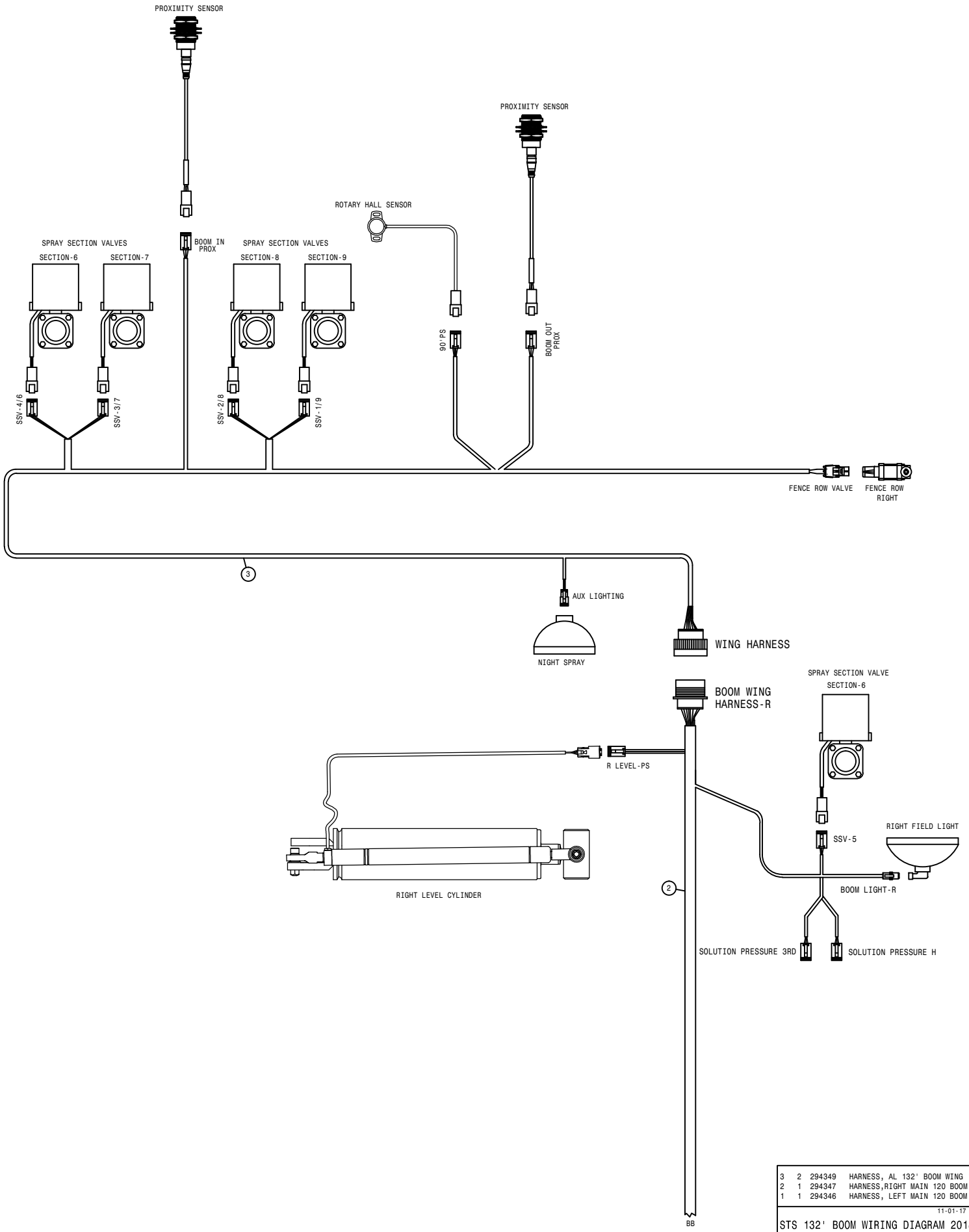
11-01-17 TLM

STS 132' BOOM WIRING DIAGRAM 2018

SHEET 1 OF 2
REV_A 11-01-17

499409





3	2	294349	HARNES, AL 132' BOOM WING '17
2	1	294347	HARNES,RIGHT MAIN 120 BOOM'17
1	1	294346	HARNES, LEFT MAIN 120 BOOM'17
11-01-17 TLM			
STS 132' BOOM WIRING DIAGRAM 2018			
SHEET 2 OF 2			
REV_A 11-01-17			
			499409

SHEET 1 OF 2

ABBREVIATIONS

A/C - AIR CONDITIONER	MT - MOUNT
ADPTR - ADAPTER	MTR - MOTOR
AGI - AGITATOR	P/N - PART NUMBER
ALT - ALTERNATOR	PLT - PLATE
ASSY - ASSEMBLY	QTY - QUANTITY
BRKT - BRACKET	RED - REDUCER
DET - DETAIL	REF - REFERENCE
DISPL - DISPLACEMENT	REST - RESTRICTOR
EL - ELBOW	REQ - REQUIRED
EXT - EXTENSION	SHFT - SHAFT
FLO - FLOW	SOL - SOLUTION
FNPT - FEMALE NATIONAL PIPE THREAD	STRG - STEERING
FOR - FEMALE O-RING	ST - STREET
FRT - FRONT	SV - STANDARD VOLUME
HV - HI-VOLUME	SWIV - SWIVEL
HYD - HYDRAULIC	UNC - UNIFIED NATIONAL COURSE
HYDRO - HYDROSTATIC	UNF - UNIFIED NATIONAL FINE
LG - LONG	V - VOLT
LWR - LOWER	W/ - WITH
MJIC - MALE J.I.C.	WHL - WHEEL
MOR - MALE O-RING	WLD - WELDMENT