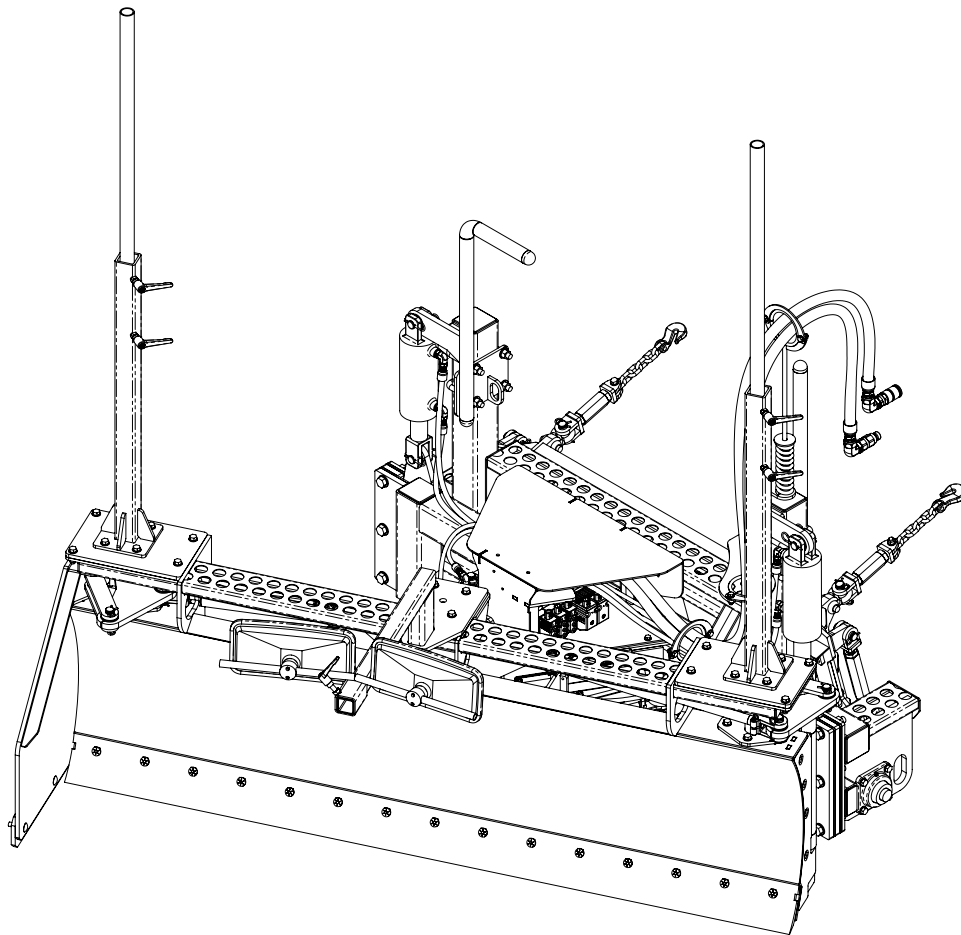


BURCHLAND

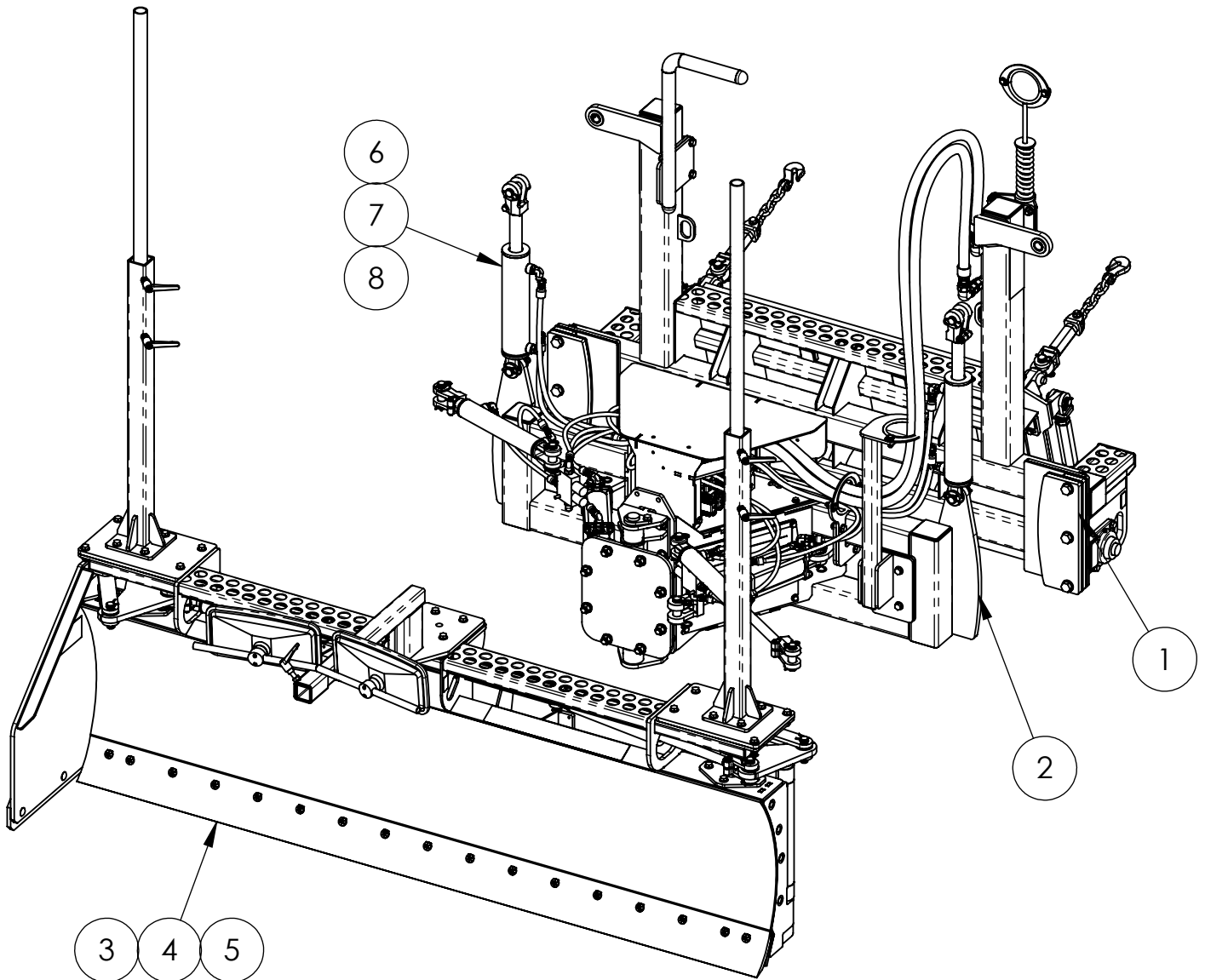
LGX

LASER GRADER



PARTS BOOK

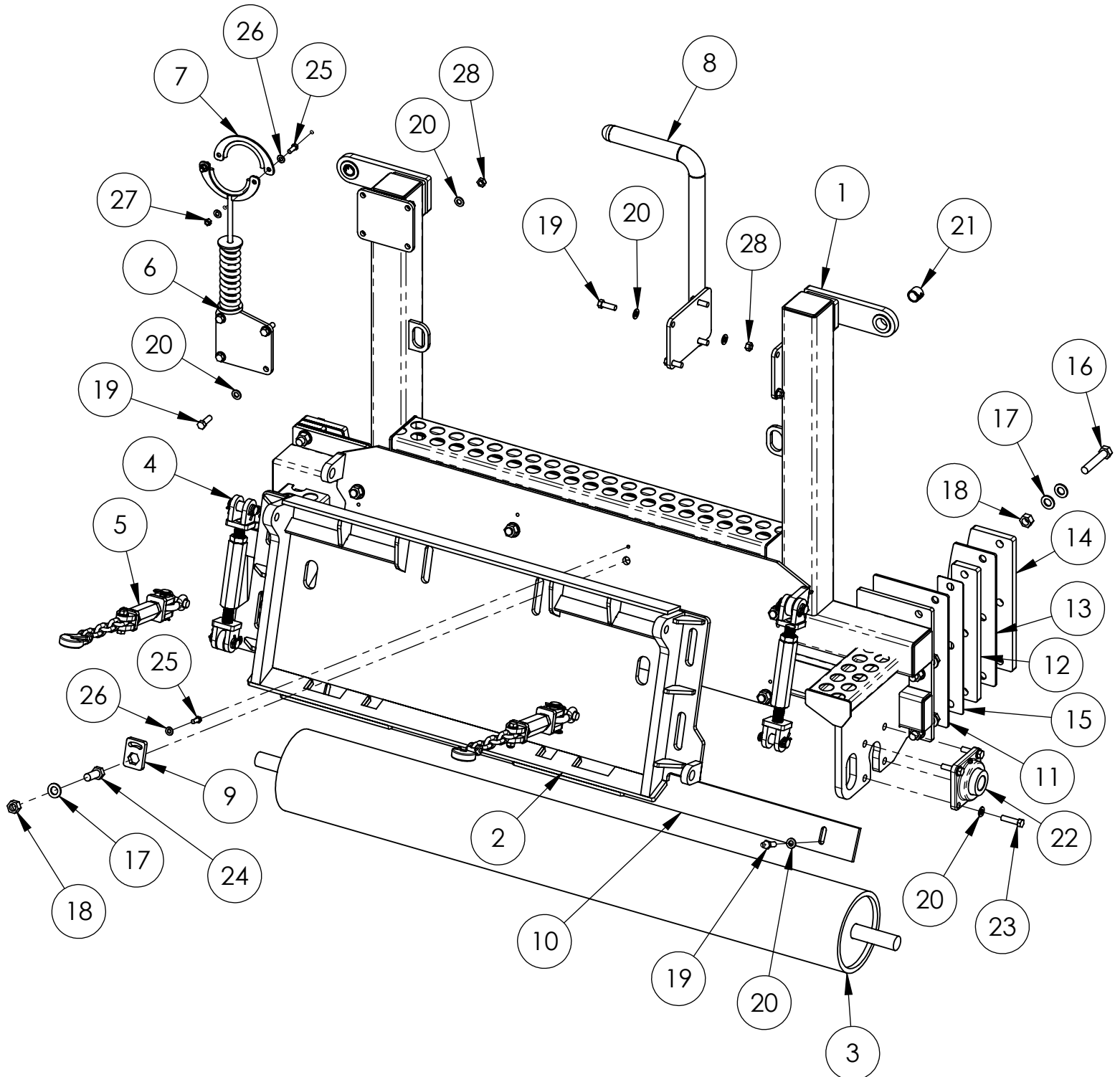
LASER GRADER
7 FOOT - 15700
8 FOOT - 15800*
7-1/2 FOOT - 15900



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17601	FRAME, DRUM, STEP ASSY	1
2	17602	GRADER TILT ASSEMBLY	1
3	17570	MOLDBOARD ASSEMBLY, 7 FT	1
4	17580	MOLDBOARD ASSEMBLY, 8 FT	1*
5	17575	MOLDBOARD ASSEMBLY, 7-1/2 FT	1
6	17681	HYDRAULIC ASSEMBLY, 7 FT	1
7	17682	HYDRAULIC ASSEMBLY, 8 FT	1*
8	17683	HYDRAULIC ASSEMBLY, 7-1/2 FT	1
9	17413	KAR-TECH REMOTE ASSEMBLY	1

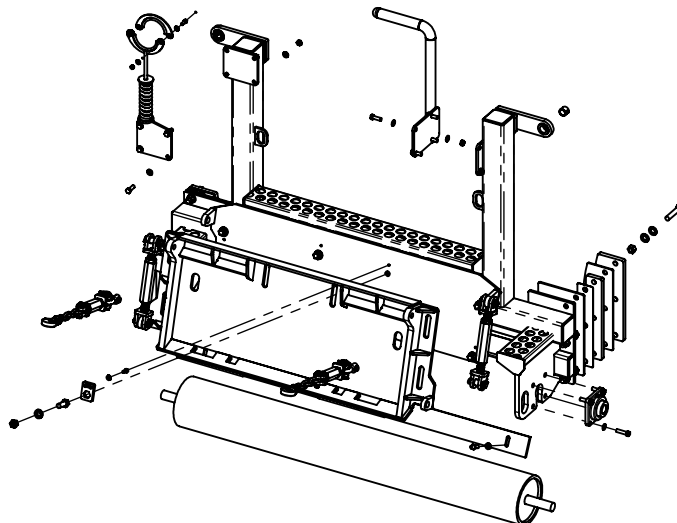
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FRAME, DRUM, STEP ASSEMBLY 17601

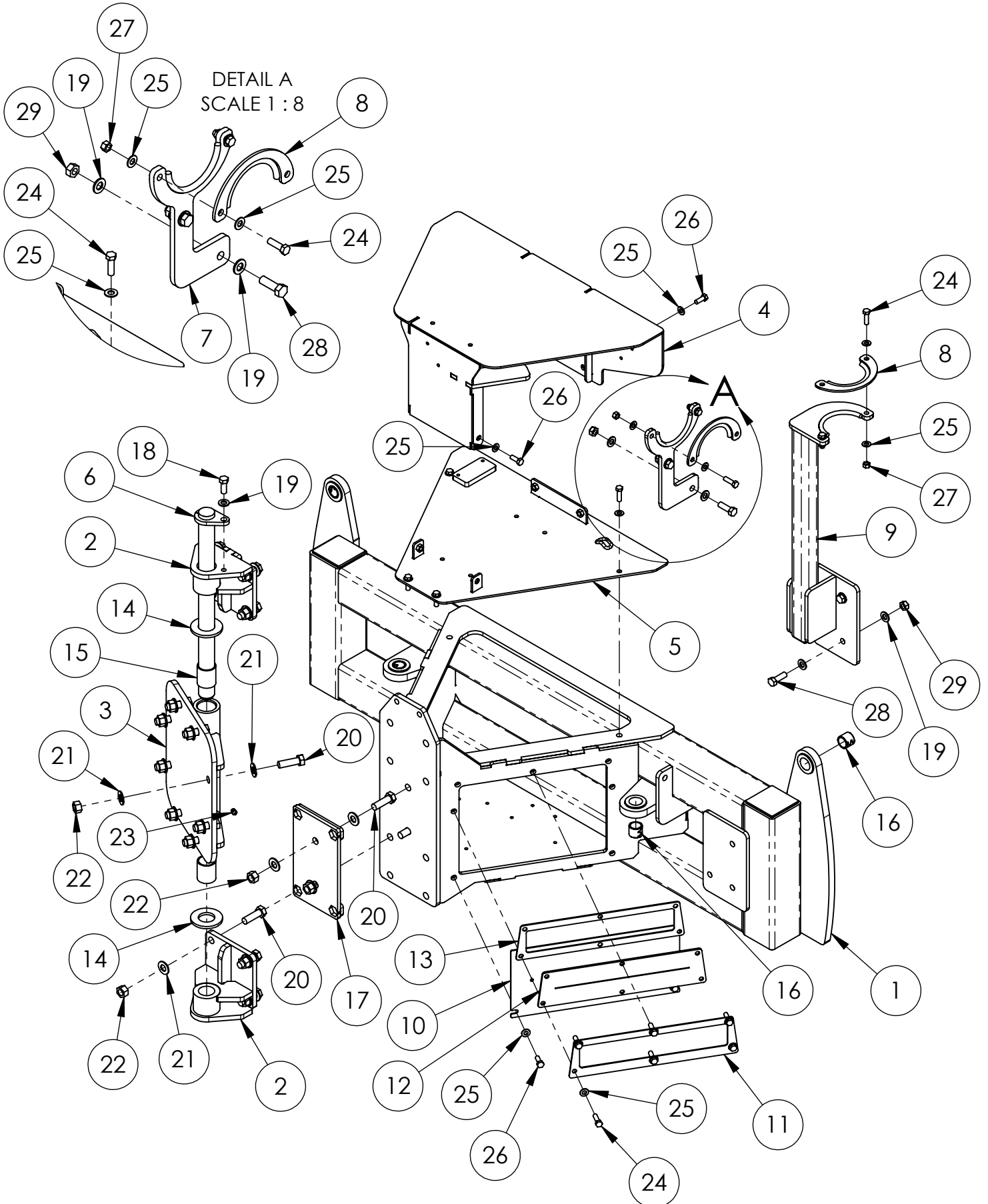


FRAME, DRUM, STEP ASSEMBLY 17601

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17603	FRAME, GRADER DRUM	1
2	17100	GRADER QUICK ATTCH PLATE	1
3	15655	GRADER DRUM WELD	1
4	15662	TURNBUCKLE, SS ATTACH	2
5	16297	TURNBUCKLE, TILT LOCK	2
6	17605	HOSE ROUTING, SPRING	1
7	16344	HOSE ROUTE CLOSE	1
8	17606	GRADER HAND RAILING, RT	1
9	17089	BOLT LOCK CAP	6
10	15659	PLATE, SCRAPER	1
11	14593	WEAR BAR STRIP	2
12	14594	PLATE, ROTOR MOUNT PIVOT	2
13	14598	PLATE, WEAR STRIP	2
14	15398	PLATE, TRIMMER HEAD CATCH	2
15	14824	PLATE, ROTOR MOUNT PIVOT	2
16	14632	BOLT, 3/4-10 X 4.0 GR8 ZY	6
17	10107	WASHER, 3/4 GR8 ZY	18
18	10106	NUT - 3/4-10 GR8 TL ZY	12
19	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	10
20	10062	WASHER, 1/2 SAE GR8 ZY	26
21	14652	BUSHING, SPRING 1" ID	2
22	15391	BEARING, 1-1/2", 4 BOLT	2
23	10946	BOLT - 1/2-13 X 2.00 GR8 ZY	8
24	15661	BOLT, 3/4-10 X 2" GR8 ZY	6
25	10112	BOLT, 3/8-16 X 1 GR8 ZY	8
26	10110	WASHER, 3/8 SAE GR8 ZY	10
27	10947	NUT, 3/8-16 SLTL GR8 ZY	2
28	10396	NUT, 1/2-13, SLTL GR8 ZY	8

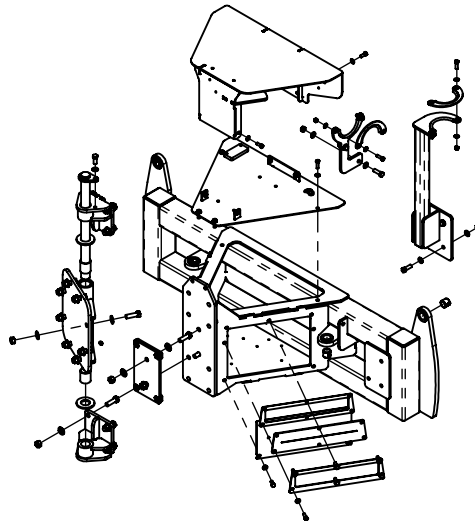


GRADER TILT ASSEMBLY 17602

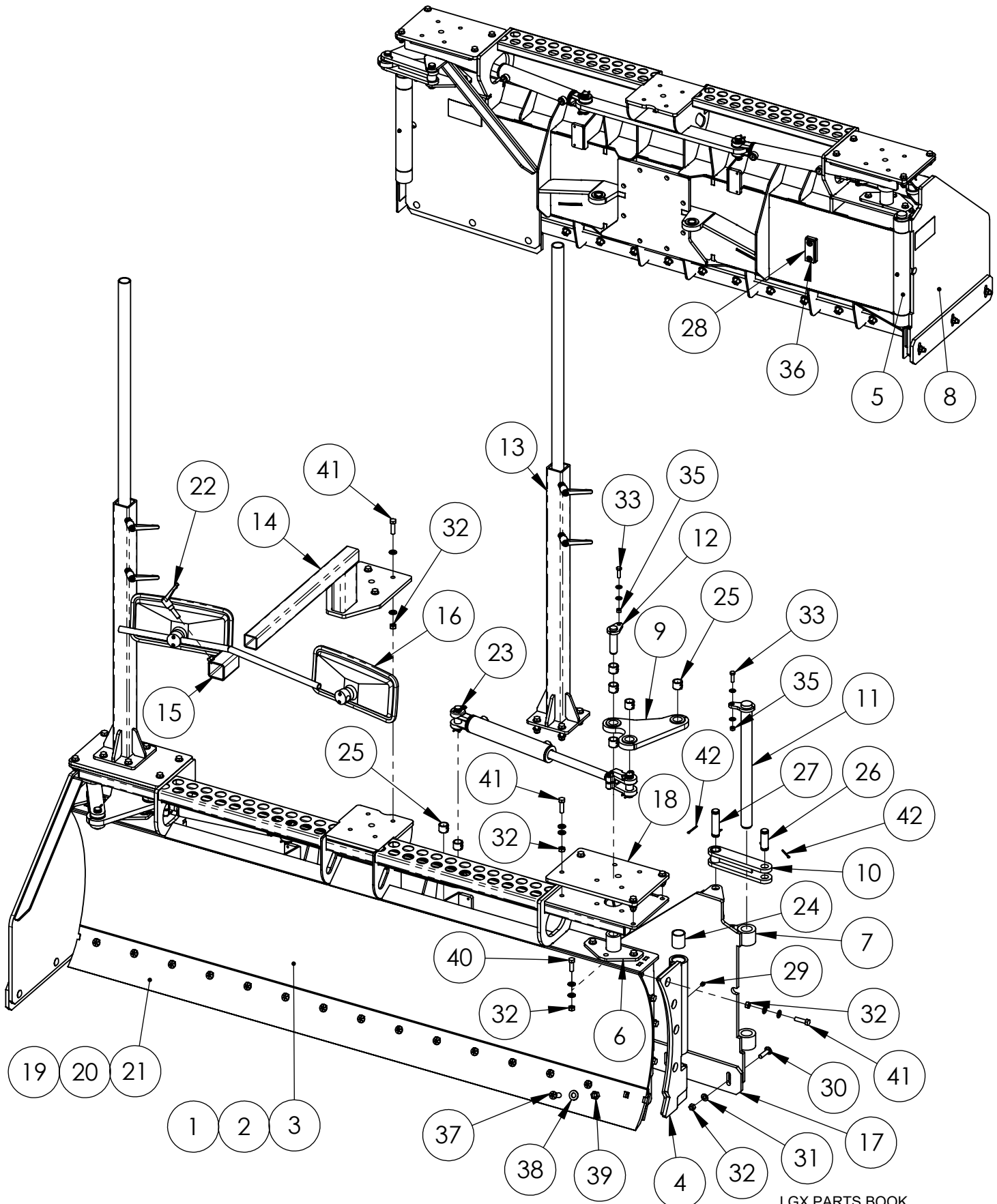


GRADER TILT ASSEMBLY 17602

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17604	GRADER TILT WELDMENT	1
2	15745	TILT PIVOT WELD	2
3	15746	BLADE PIVOT WELD	1
4	16174	VALVE COVER, GRADER	1
5	16038	VALVE BOX LID WELD	1
6	15816	PIVOT PIN, GRADER	1
7	17612	HOSE ROUTING, L-SHAPE	1
8	16344	HOSE ROUTE CLOSE	2
9	17613	HOSE ROUTING, ARM	1
10	15834	PLATE, BOX SIDE	1
11	15835	PLATE, RUBBER SEAL MNT	1
12	15836	RUBBER SEAL GROMMET	1
13	15838	PLATE, RUBBER SEAL BIND	1
14	15750	PLATE, WEAR PIVOT WASHER	2
15	11086	BUSHING, 1.5ID X 1.75OD X 2.0	2
16	14652	BUSHING, SPRING 1" ID	4
17	17417	STUD HOLDER	1
18	10433	BOLT, 1/2-13 X 1.25 GR8 ZY	1
19	10062	WASHER, 1/2 SAE GR8 ZY	11
20	10886	BOLT, 5/8-11 X 2.0 GR8 ZY	18
21	10104	WASHER, 5/8 GR8 ZY	32
22	11122	NUT, 5/8-11 SLTL GR8 ZY	18
23	10434	GREASE ZERK, 1/8 NPT ST.	1
24	10113	BOLT, 3/8-16 X 1.25 GR8 ZY	14
25	10110	WASHER, 3/8 SAE GR8 ZY	24
26	10112	BOLT, 3/8-16 X 1 GR8 ZY	6
27	10947	NUT, 3/8-16 SLTL GR8 ZY	4
28	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	5
29	10396	NUT, 1/2-13, SLTL GR8 ZY	5



MOLDBOARD ASSEMBLY
7 FOOT - 17570
8 FOOT - 17580
7-1/2 FOOT - 17575*

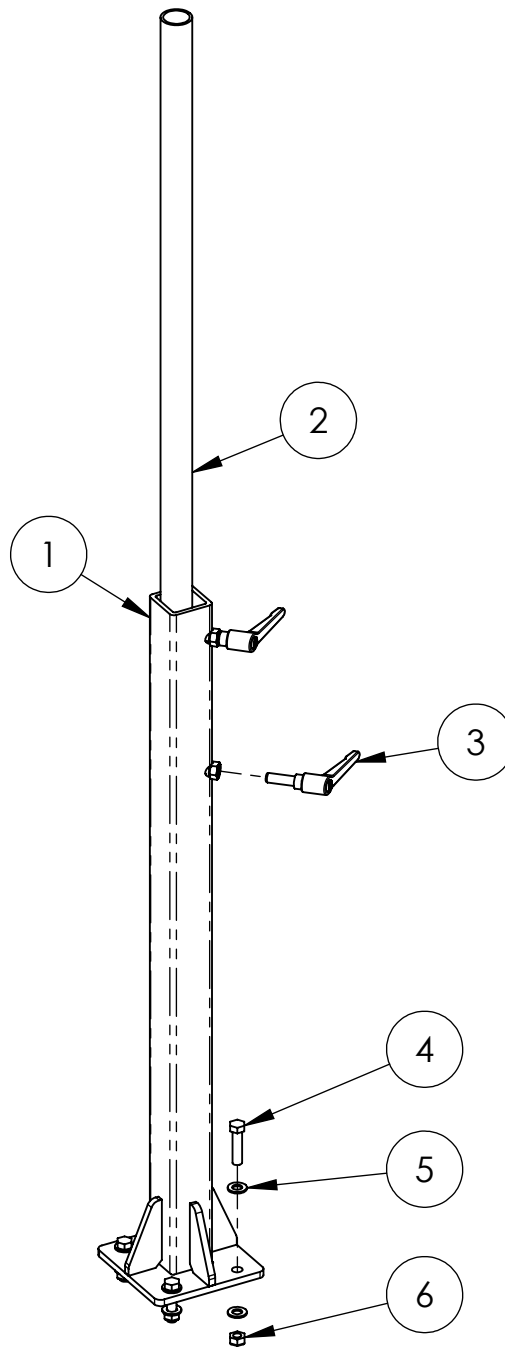


MOLDBOARD ASSY, 7-1/2 FT 17575

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17571	MOLDBOARD WELD 7 FT	1
2	17581	MOLDBOARD WELD 8 FT	1
3	17576	MOLDBOARD WELD 7-1/2 FT	1*
4	17577	WING HINGE, LEFT	1
5	17578	WING HINGE, RIGHT	1
6	16579	WING PIVOT BOTTOM	2
7	16580	GRADER WING, 24" LEFT	1
8	16581	GRADER WING, 24" RIGHT	1
9	17211	TRIANGLE LINK WELD	2
10	17199	STRAIGHT LINK WELDMENT	2
11	15681	PIVOT PIN, WING 1-1/2"	2
12	15682	PIVOT PIN, WING 1" X 4"	2
13	16261	LASER MAST ASSEMBLY	2
14	17108	MIRROR BRACKET WELD	1
15	17109	MIRROR MOUNT WELD	1
16	16436	MIRROR, BLADE FRONT	2
17	16584	PLATE, WING WEAR EDGE	2
18	16585	PLATE, MAST MOUNT	2
19	15683	GRADER BLADE, 7 FT	1
20	14553	GRADER BLADE, 8 FT	1
21	16586	GRADER BLADE, 7-1/2 FT	1*
22	15794	SET SCREW, 1/2-13 RATCHET	1
23	15674	HYD CYL, 2" x 10" x 1-1/8"	2
24	11086	BUSHING, 1.5ID X 1.75OD X 2.0	4
25	14652	BUSHING, SPRING 1" ID	14
26	15671	PIN, 1" X 3" ZC	2
27	15672	PIN, 1" X 4" ZC	2
28	12975	BAR, WHEEL TUBE SHIM	2
29	10434	GREASE ZERK, 1/8 NPT ST.	2
30	12908	BOLT, 1/2-13 X 1.75 CARRIAGE	6
31	10062	WASHER, 1/2 SAE GR8 ZY	64
32	10396	NUT, 1/2-13, SLTL GR8 ZY	32
33	10113	BOLT, 3/8-16 X 1.25 GR8 ZY	4
34	10110	WASHER, 3/8 SAE GR8 ZY	8
35	10947	NUT, 3/8-16 SLTL GR8 ZY	4
36	13006	CAP SCREW, 3/8-16 X 1.25 CTRSK	4
37	14469	PLOW BOLT, 5/8-11 X 2.0 G8	15
38	10104	WASHER, 5/8 GR8 ZY	15
39	11122	NUT, 5/8-11 SLTL GR8 ZY	15
40	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	6
41	10435	BOLT - 1/2-13 X 1.75 GR8 ZY	20
42	10963	COTTER PIN, 1/8 X 1.75	8

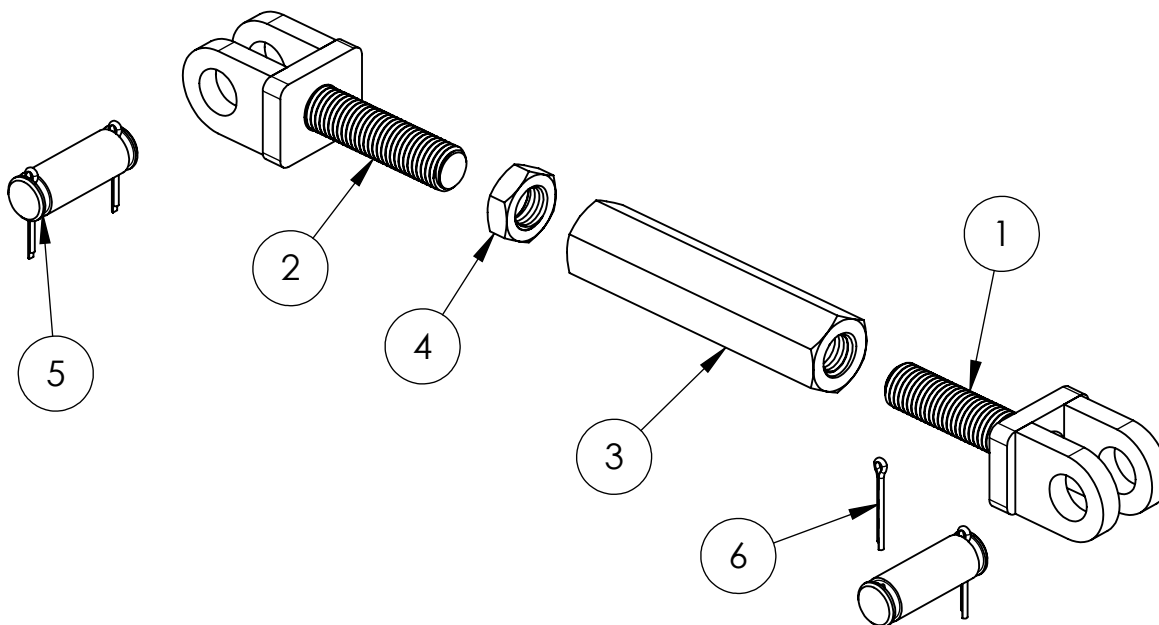
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LASER MAST ASSEMBLY **16261**



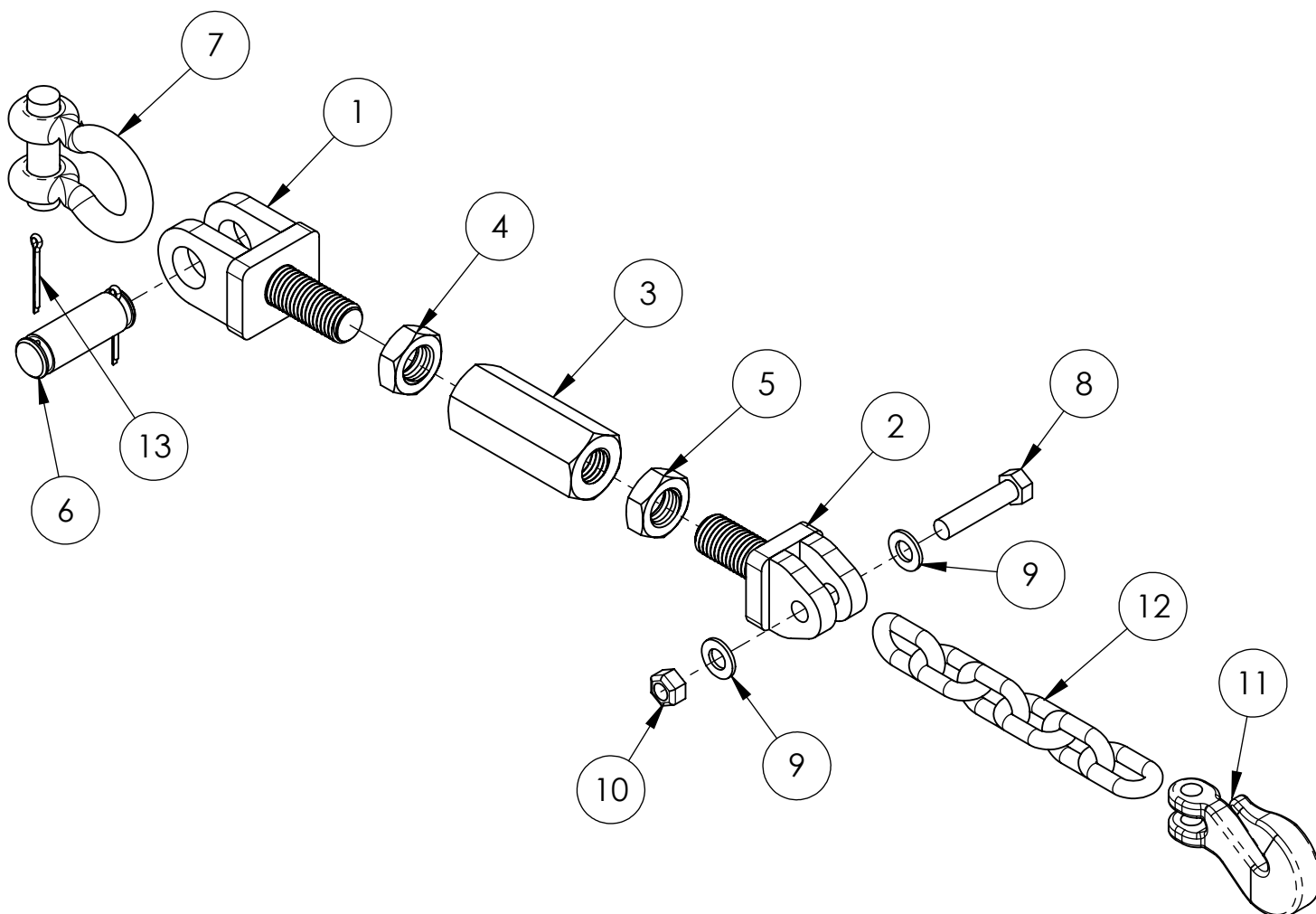
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16260	LASER MAST BASE WELD	1
2	16256	TUBE, MAST POLE	1
3	15794	SET SCREW, 1/2-13 RATCHET	2
4	10946	BOLT - 1/2-13 X 2.00 GR8 ZY	4
5	10062	WASHER, 1/2 SAE GR8 ZY	8
6	10396	NUT, 1/2-13, SLTL GR8 ZY	4

TURNBUCKLE, ATTACH PLATE 15662



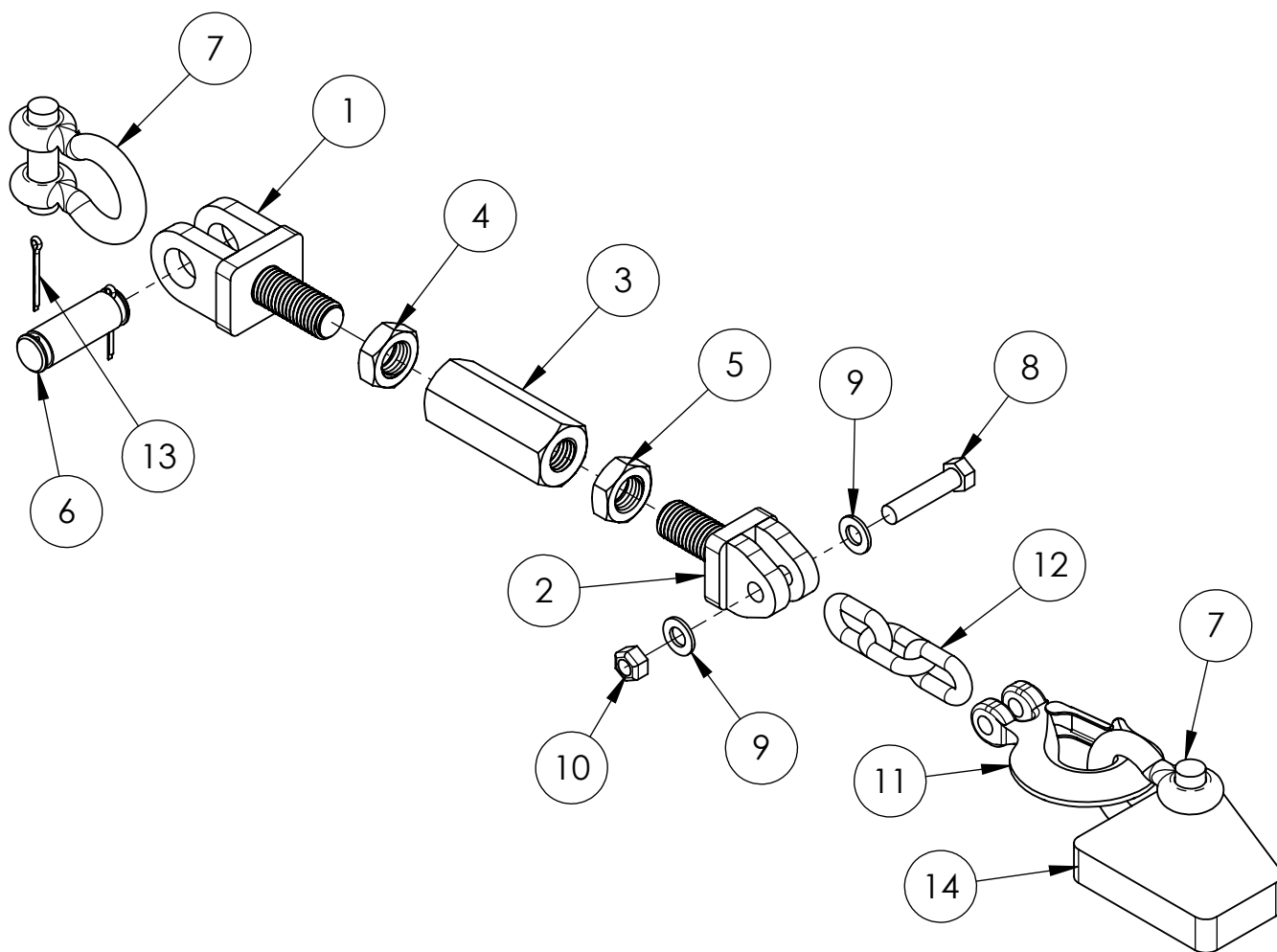
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	15663	TURNBUCKLE CLEVIS, LH	1
2	15664	TURNBUCKLE CLEVIS, RH	1
3	15665	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	15671	PIN, 1" X 3" ZC	2
6	10963	COTTER PIN, 1/8 X 1.75	4

TURNBUCKLE, TILT LOCK DEERE - 16297



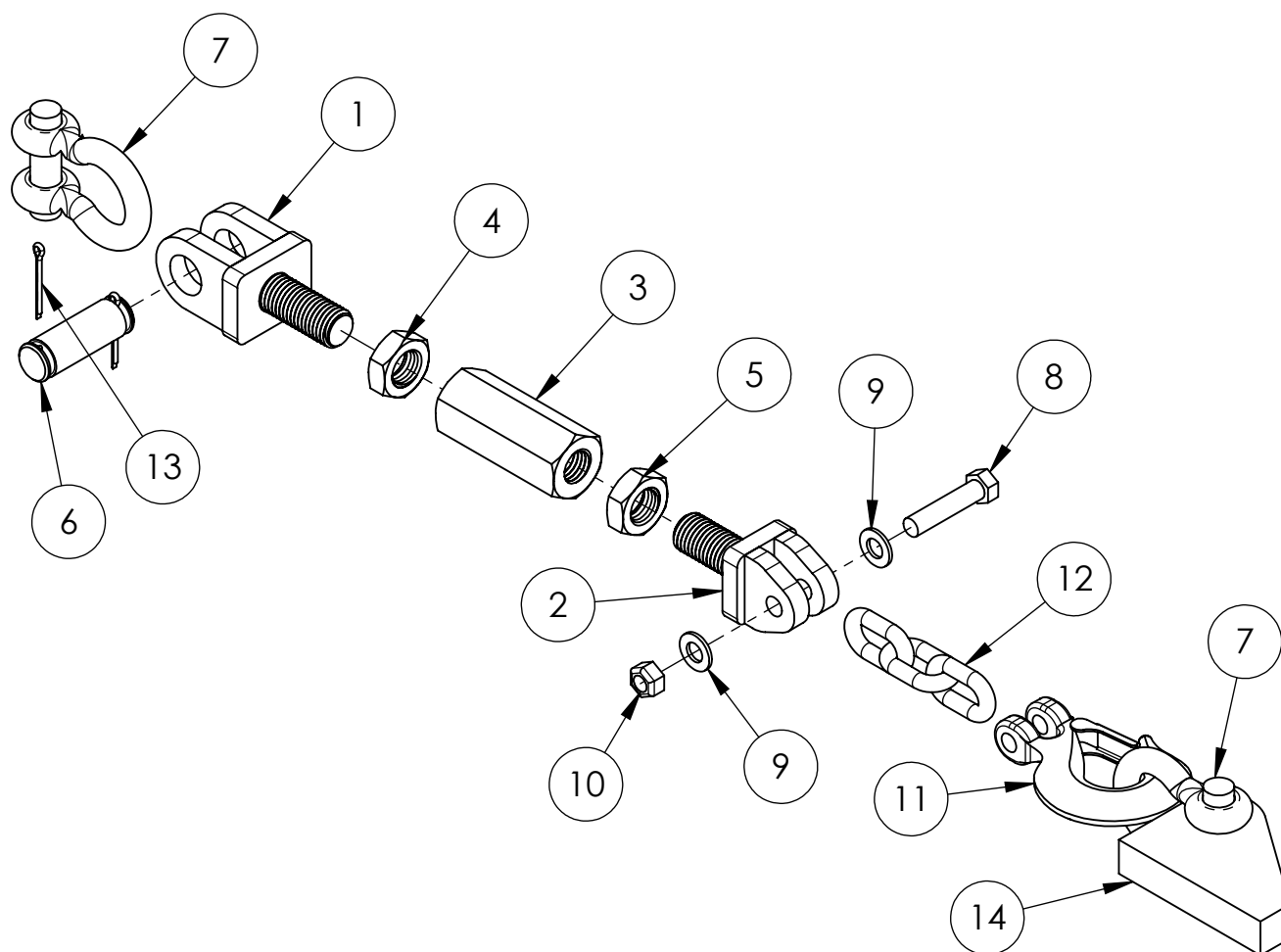
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16298	TURNBUCKLE CLEVIS, RH	1
2	16299	TURNBUCKLE CLEVIS, LH	1
3	16305	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	16369	NUT, 1"-8, GR2 ZC JAM, LH	1
6	15671	PIN, 1" X 3" ZC	1
7	16306	CLEVIS, 5/8" THICK, 3/4" PIN	1
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	1
9	10062	WASHER, 1/2 SAE GR8 ZY	2
10	10396	NUT, 1/2-13, SLTL GR8 ZY	1
11	16710	HOOK, GRAB CLEVIS, GR70	1
12	16945	CHAIN, 3/8" X 6 LINKS, GR70	1
13	10963	COTTER PIN, 1/8 X 1.75	2

TURNBUCKLE, TILT LOCK **TAKEUCHI - 17975**



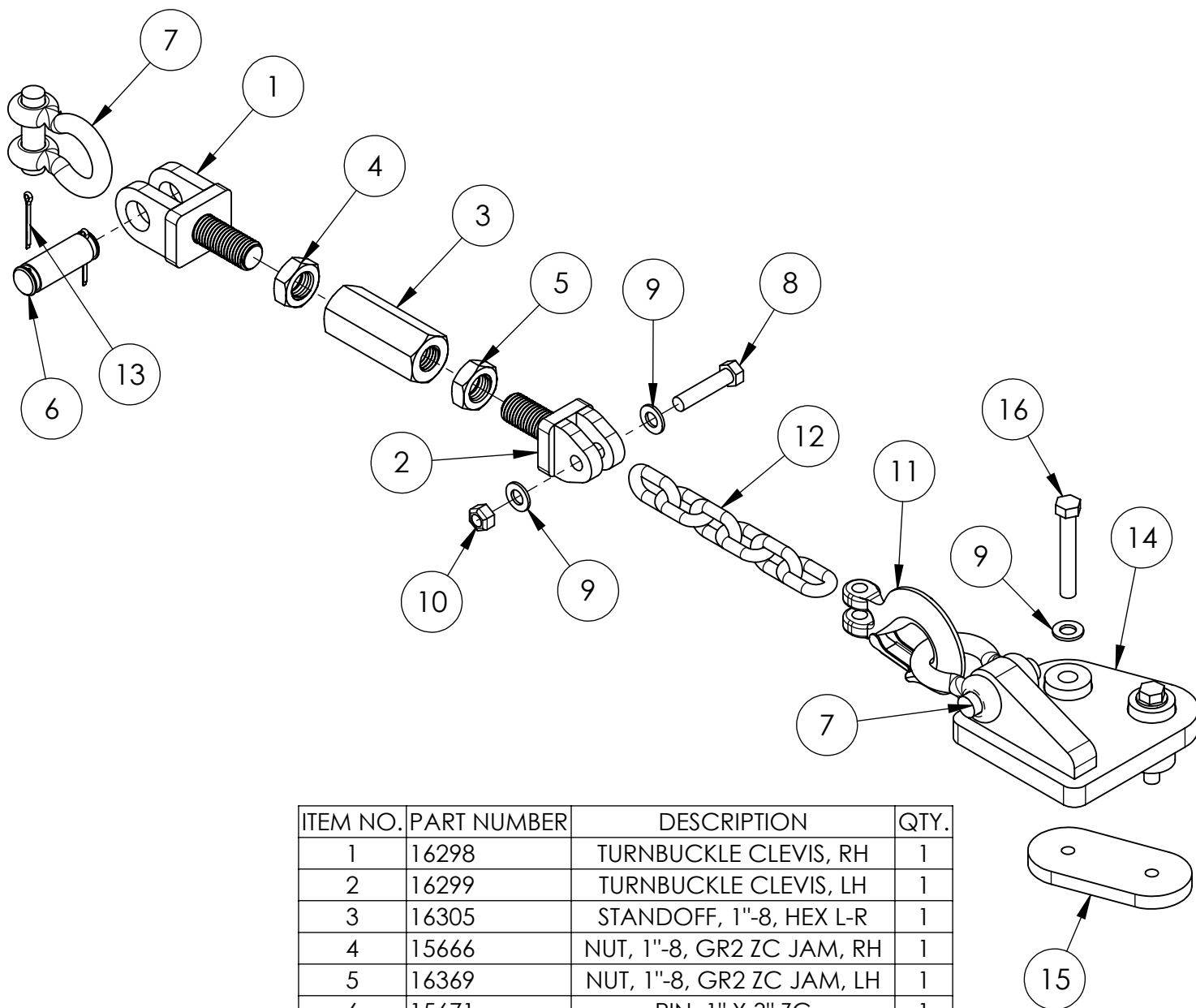
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16298	TURNBUCKLE CLEVIS, RH	1
2	16299	TURNBUCKLE CLEVIS, LH	1
3	16305	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	16369	NUT, 1"-8, GR2 ZC JAM, LH	1
6	15671	PIN, 1" X 3" ZC	1
7	16306	CLEVIS, 5/8" THICK, 3/4" PIN	2
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	1
9	10062	WASHER, 1/2 SAE GR8 ZY	2
10	10396	NUT, 1/2-13, SLTL GR8 ZY	1
11	16711	HOOK, LATCH CLEVIS, GR70	1
12	17977	CHAIN, 3/8" X 3 LINKS, GR70	1
13	10963	COTTER PIN, 1/8 X 1.75	2
14	17962	PLATE, SLOT CLEVIS MNT	1

TURNBUCKLE, TILT LOCK **NEW HOLLAND - 17976**



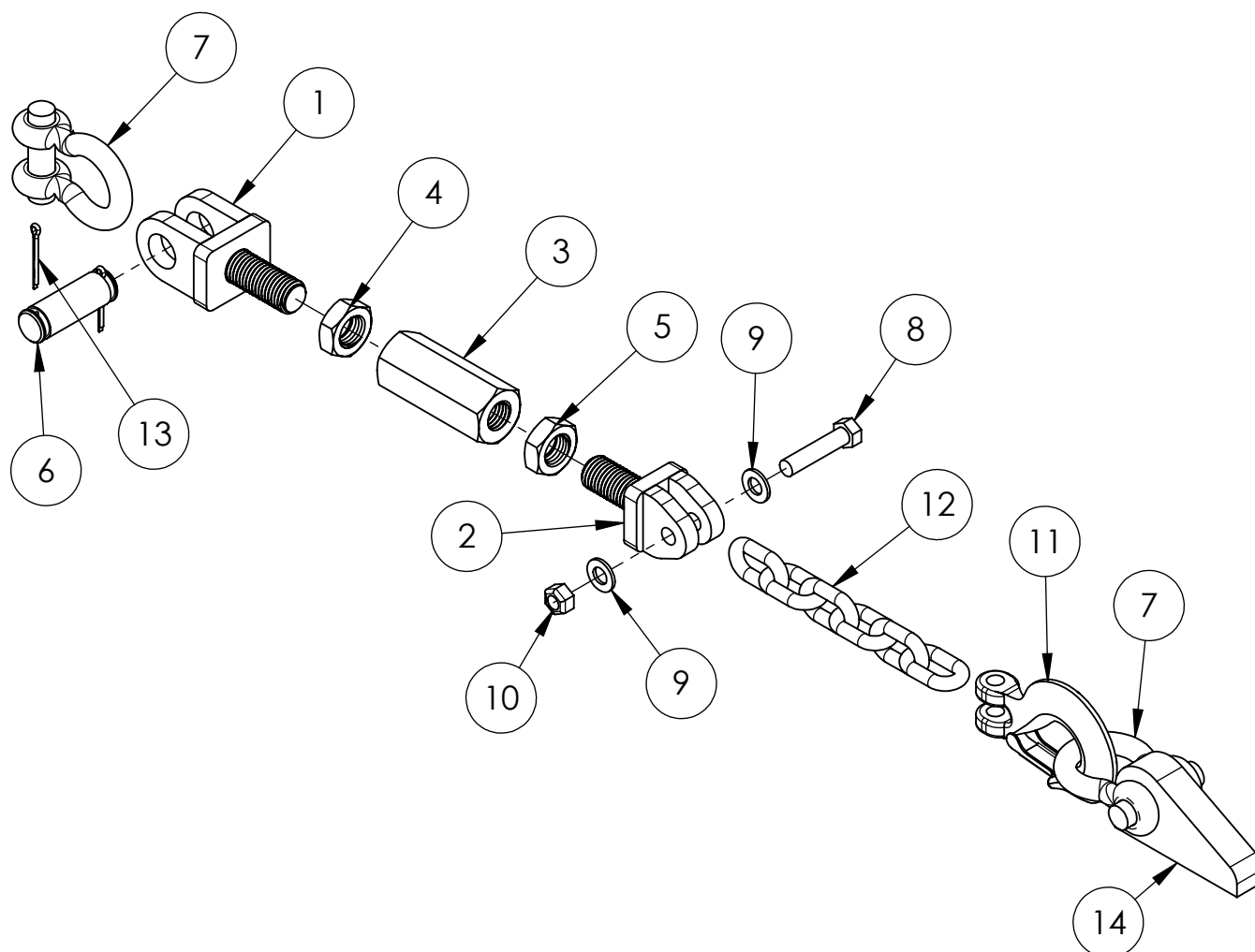
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16298	TURNBUCKLE CLEVIS, RH	1
2	16299	TURNBUCKLE CLEVIS, LH	1
3	16305	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	16369	NUT, 1"-8, GR2 ZC JAM, LH	1
6	15671	PIN, 1" X 3" ZC	1
7	16306	CLEVIS, 5/8" THICK, 3/4" PIN	2
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	1
9	10062	WASHER, 1/2 SAE GR8 ZY	2
10	10396	NUT, 1/2-13, SLTL GR8 ZY	1
11	16711	HOOK, LATCH CLEVIS, GR70	1
12	17977	CHAIN, 3/8" X 3 LINKS, GR70	1
13	10963	COTTER PIN, 1/8 X 1.75	2
14	17963	PLATE, SLOT CLEVIS MNT	1

TURNBUCKLE, TILT LOCK CAT - 17978



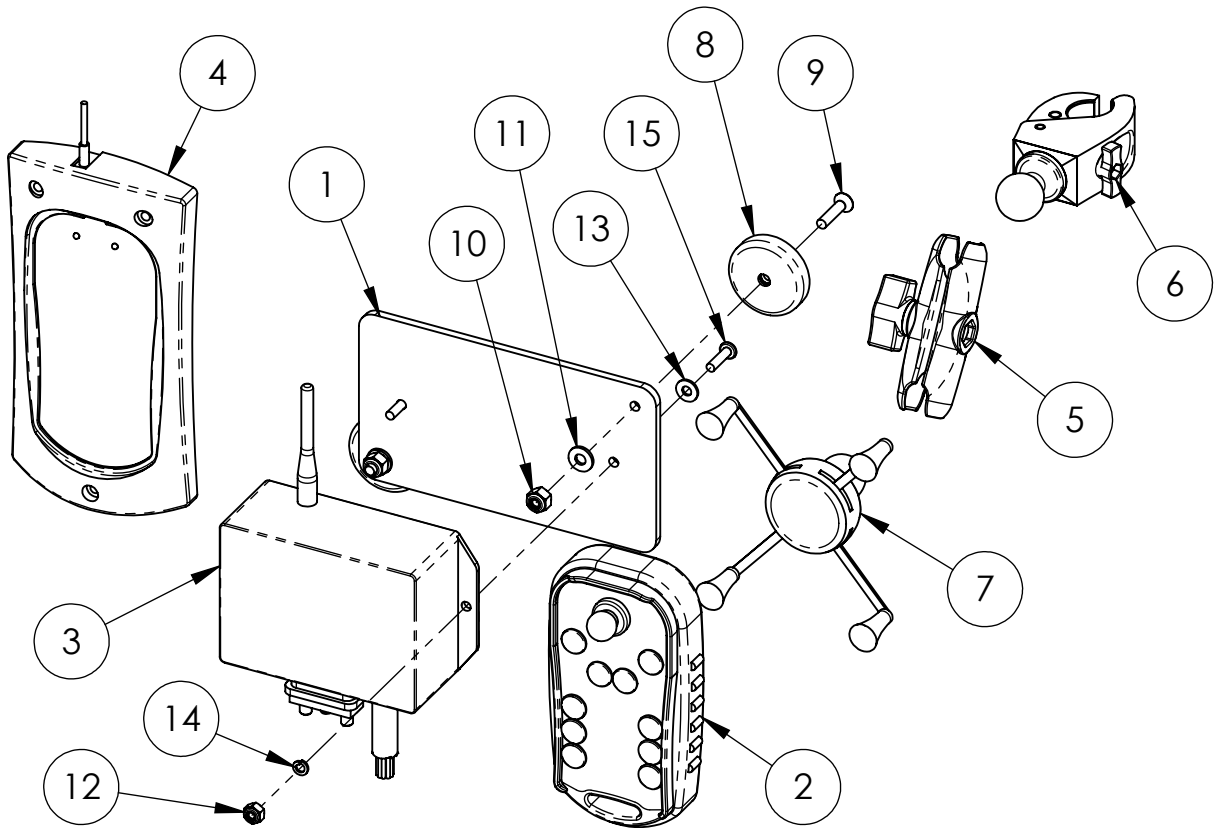
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16298	TURNBUCKLE CLEVIS, RH	1
2	16299	TURNBUCKLE CLEVIS, LH	1
3	16305	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	16369	NUT, 1"-8, GR2 ZC JAM, LH	1
6	15671	PIN, 1" X 3" ZC	1
7	16306	CLEVIS, 5/8" THICK, 3/4" PIN	2
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	1
9	10062	WASHER, 1/2 SAE GR8 ZY	4
10	10396	NUT, 1/2-13, SLTL GR8 ZY	1
11	16711	HOOK, LATCH CLEVIS, GR70	1
12	16945	CHAIN, 3/8" X 6 LINKS, GR70	1
13	10963	COTTER PIN, 1/8 X 1.75	2
14	16448	BOOM SLOT BRACKET, LEFT	1
15	16446	PLATE, SLOT BACK	1
16	14651	BOLT, 1/2-13 X 3.25 GR8 ZY	2

TURNBUCKLE, TILT LOCK KUBOTA - 17990



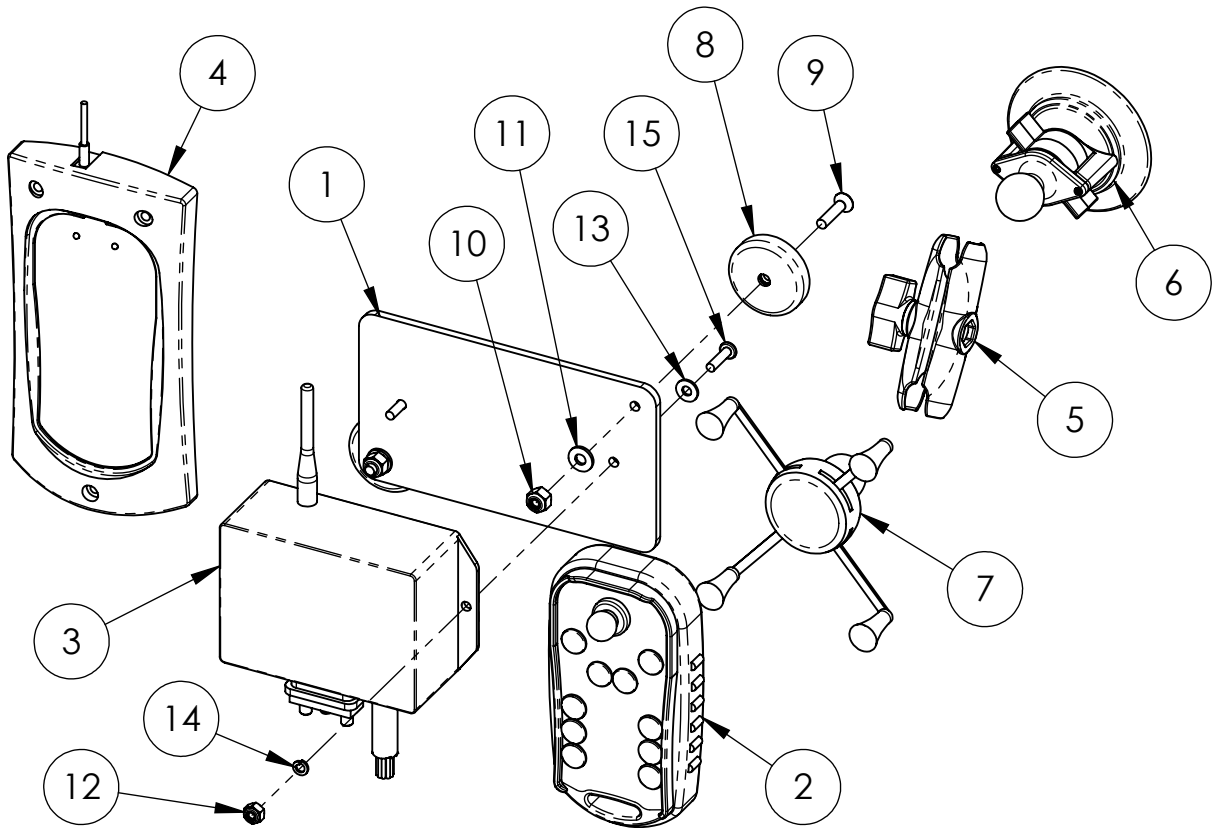
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16298	TURNBUCKLE CLEVIS, RH	1
2	16299	TURNBUCKLE CLEVIS, LH	1
3	16305	STANDOFF, 1"-8, HEX L-R	1
4	15666	NUT, 1"-8, GR2 ZC JAM, RH	1
5	16369	NUT, 1"-8, GR2 ZC JAM, LH	1
6	15671	PIN, 1" X 3" ZC	1
7	16306	CLEVIS, 5/8" THICK, 3/4" PIN	2
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	1
9	10062	WASHER, 1/2 SAE GR8 ZY	2
10	10396	NUT, 1/2-13, SLTL GR8 ZY	1
11	16711	HOOK, LATCH CLEVIS, GR70	1
12	16945	CHAIN, 3/8" X 6 LINKS, GR70	1
13	10963	COTTER PIN, 1/8 X 1.75	2
14	16443	PLATE, SLOT CLEVIS MNT	1

KAR-TECH REMOTE ASSEMBLY DEERE - 17413



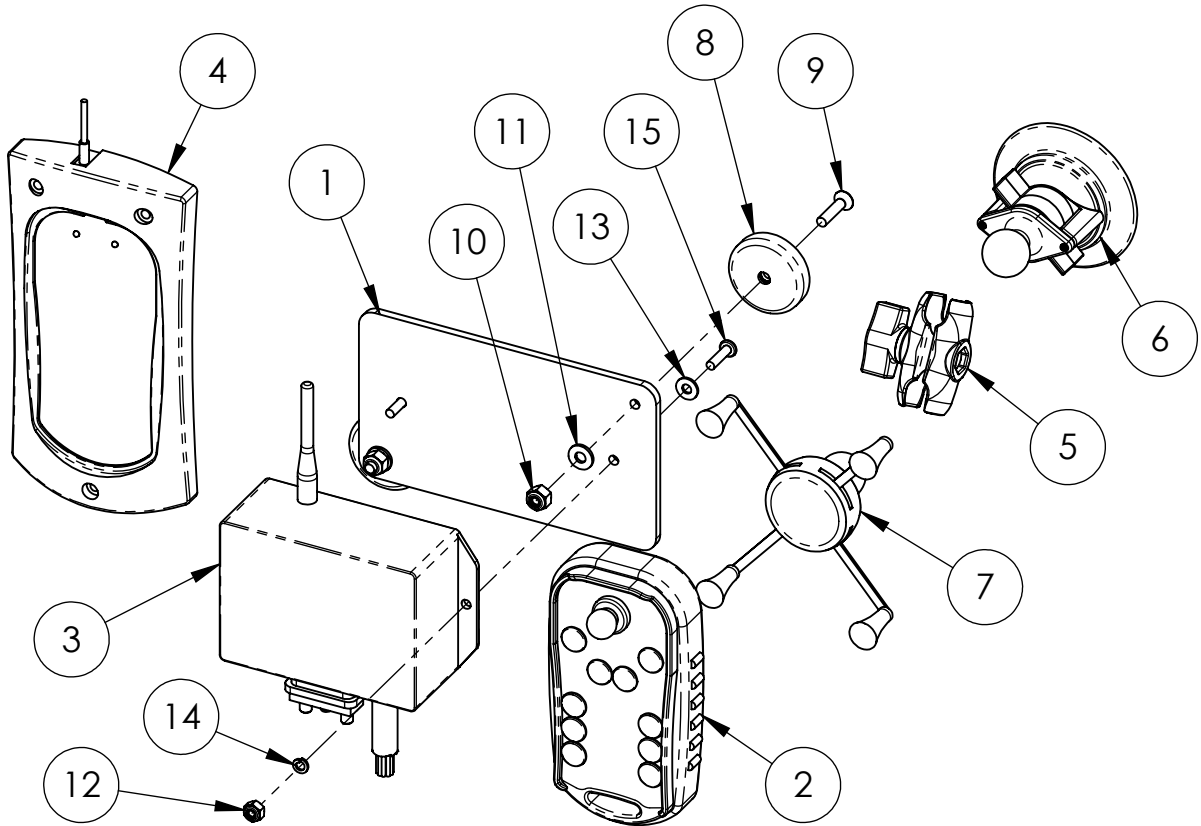
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17085	PLATE, KAR-TECH RECEIVER	1
2	17151	RADIO TRANSMITTER, GRADER	1
3	17152	RADIO RECEIVER, GRADER	1
4	17153	CHARGER, RADIO TRNSMTTR	1
5	17404	RAM, ARM MEDIUM - B SIZE	1
6	17408	RAM, BALL CLAMP SM - B SIZE	1
7	17685	RAM, X-GRIP HOLDER	1
8	16588	MAGNET, 1.75 x .38, ENCASED	2
9	17492	BOLT, #12-24 X 1.0" HCS ZC	2
10	17493	NUT, #12-24 STL, NE ZC	2
11	17494	WASHER, #12 SAE ZC	2
12	17380	NUT, #10-24 STL, NE ZC	2
13	17382	WASHER, #10 SAE ZC	2
14	17383	WASHER, #10 SAE LW ZC	2
15	17384	BOLT, #10-24 X 0.75" PHDR ZC	2

KAR-TECH REMOTE ASSEMBLY TAKEUCHI - 17980



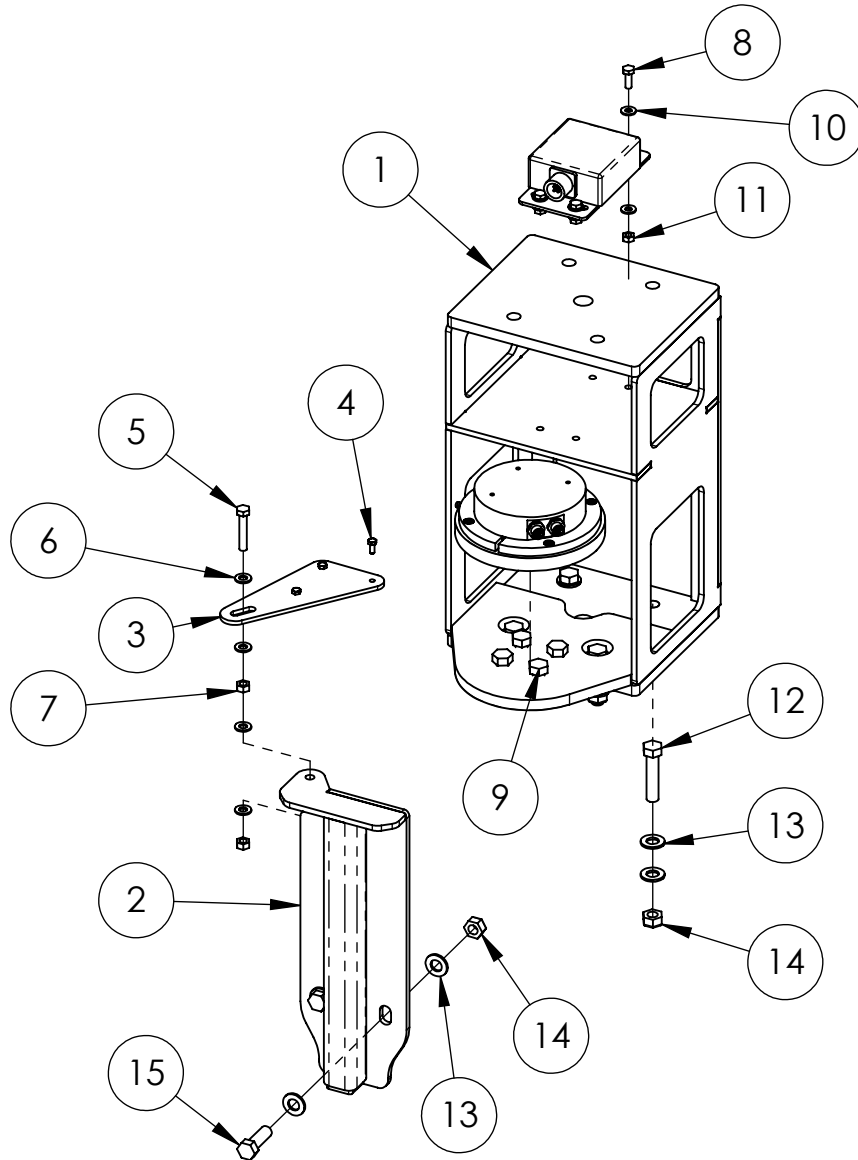
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17085	PLATE, KAR-TECH RECEIVER	1
2	17151	RADIO TRANSMITTER, GRADER	1
3	17152	RADIO RECEIVER, GRADER	1
4	17153	CHARGER, RADIO TRNSMTTR	1
5	17404	RAM, ARM MEDIUM - B SIZE	1
6	17974	RAM, SUCTION CUP BASE	1
7	17685	RAM, X-GRIP HOLDER	1
8	16588	MAGNET, 1.75 x .38, ENCASED	2
9	17492	BOLT, #12-24 X 1.0" HCS ZC	2
10	17493	NUT, #12-24 STL, NE ZC	2
11	17494	WASHER, #12 SAE ZC	2
12	17380	NUT, #10-24 STL, NE ZC	2
13	17382	WASHER, #10 SAE ZC	2
14	17383	WASHER, #10 SAE LW ZC	2
15	17384	BOLT, #10-24 X 0.75" PHDR ZC	2

KAR-TECH REMOTE ASSEMBLY **NEW HOLLAND / KUBOTA - 17981**



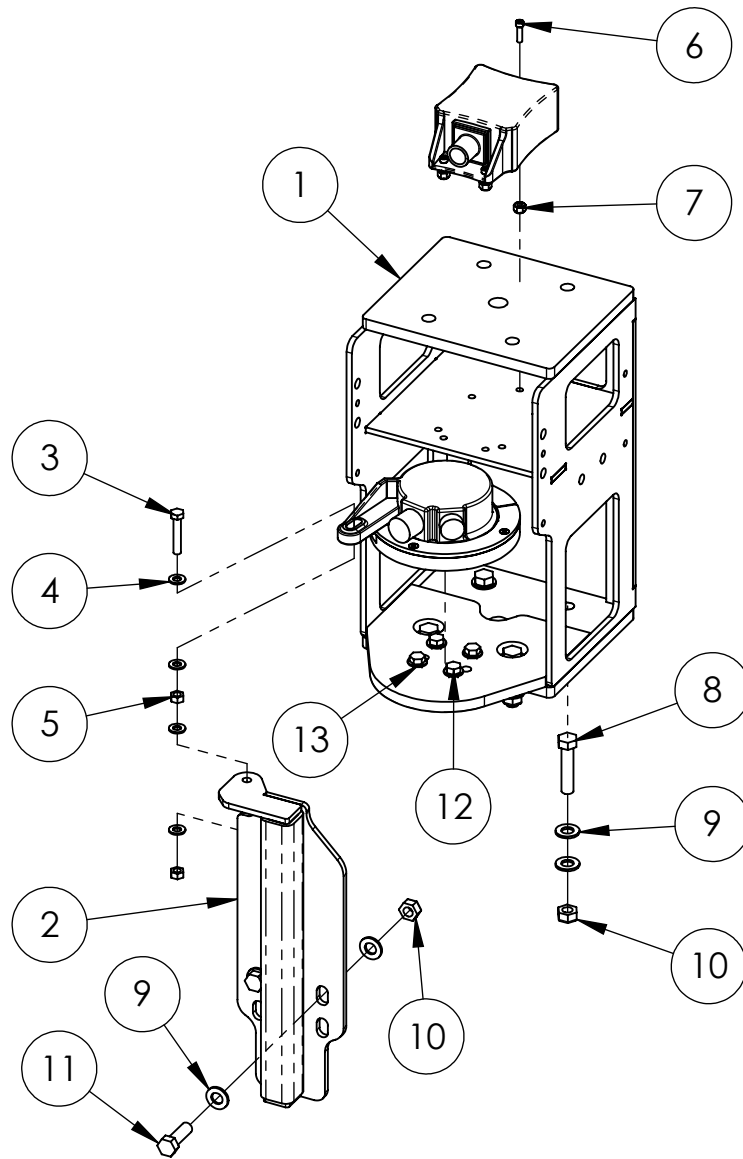
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17085	PLATE, KAR-TECH RECEIVER	1
2	17151	RADIO TRANSMITTER, GRADER	1
3	17152	RADIO RECEIVER, GRADER	1
4	17153	CHARGER, RADIO TRNSMTTR	1
5	17402	RAM, ARM SHORT - B SIZE	1
6	17974	RAM, SUCTION CUP BASE	1
7	17685	RAM, X-GRIP HOLDER	1
8	16588	MAGNET, 1.75 x .38, ENCASED	2
9	17492	BOLT, #12-24 X 1.0" HCS ZC	2
10	17493	NUT, #12-24 STL, NE ZC	2
11	17494	WASHER, #12 SAE ZC	2
12	17380	NUT, #10-24 STL, NE ZC	2
13	17382	WASHER, #10 SAE ZC	2
14	17383	WASHER, #10 SAE LW ZC	2
15	17384	BOLT, #10-24 X 0.75" PHDR ZC	2

MAST RISER ASSEMBLY **LEICA - 17855**



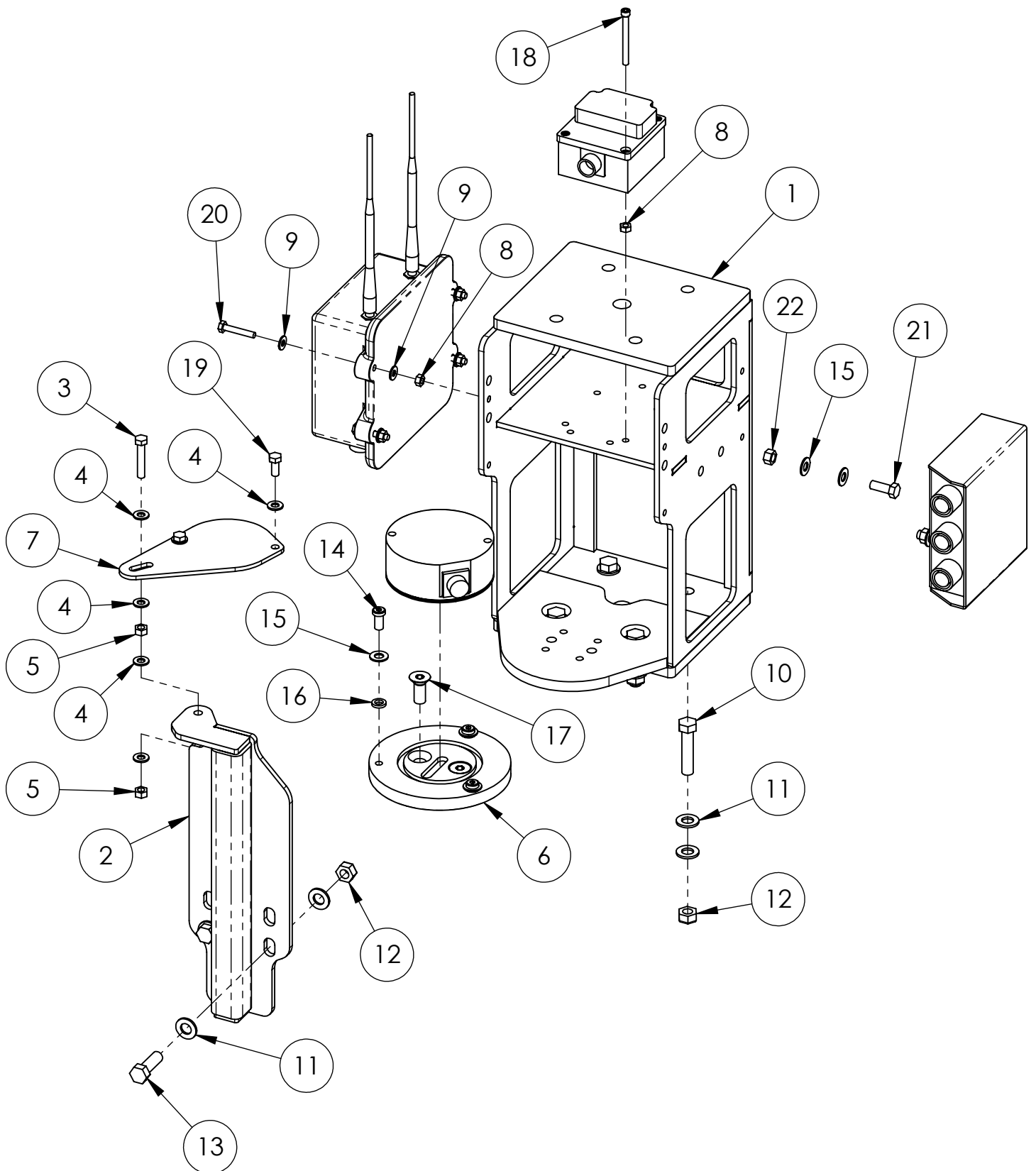
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17190	MAST RISER, 16", LEICA	1
2	16899	ARM HOLDER, LEICA ROT.	1
3	17854	PLATE, LEICA FINGER	1
4	17186	BOLT, M5-.8 x 12mm, ZC	3
5	16119	BOLT, 5/16-18 X 1-3/4 GR8 ZY	1
6	14697	WASHER, 5/16 GR8 ZY	4
7	14698	NUT, 5/16-18 GR8 ZY	2
8	17856	BOLT, 1/4-20 X 0.75", GR8 ZY	4
9	17857	BOLT, 1/2-13 X 0.75 GR8 ZY	4
10	10684	WASHER, 1/4 SAE GR8 ZY	8
11	10683	NUT, 1/4-20 SLTL GR8 ZY	4
12	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	4
13	10062	WASHER, 1/2 SAE GR8 ZY	12
14	10396	NUT, 1/2-13, SLTL GR8 ZY	6
15	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	2

MAST RISER ASSEMBLY **TOPCON - 17865**



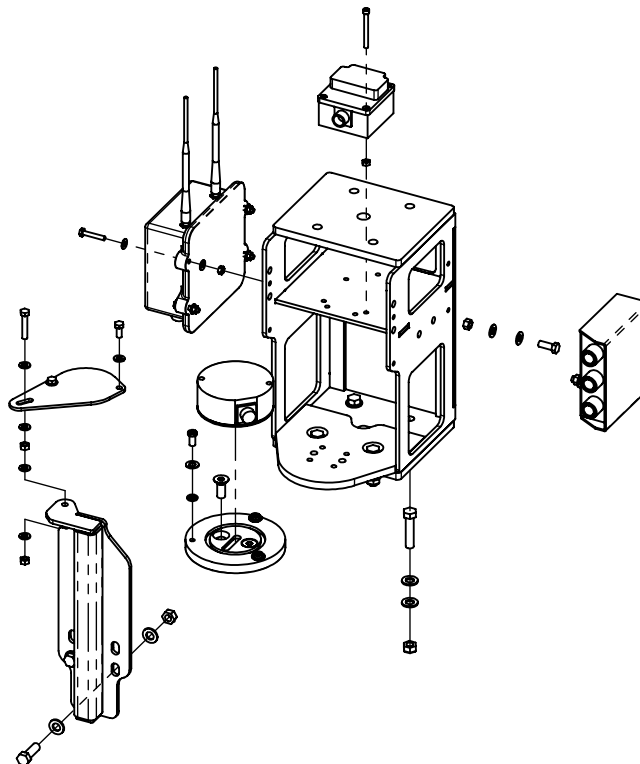
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17860	MAST RISER, 16", TOPCON/TRIMBLE	1
2	17859	ARM HOLDER, TOPCON/TRIMBLE	1
3	16119	BOLT, 5/16-18 X 1-3/4 GR8 ZY	1
4	14697	WASHER, 5/16 GR8 ZY	4
5	14698	NUT, 5/16-18 GR8 ZY	2
6	17872	BOLT, #12-24 X 0.75" SH ZC	3
7	17493	NUT, #12-24 STL, NE ZC	3
8	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	4
9	10062	WASHER, 1/2 SAE GR8 ZY	12
10	10396	NUT, 1/2-13, SLTL GR8 ZY	6
11	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	2
12	10112	BOLT, 3/8-16 X 1 GR8 ZY	4
13	10110	WASHER, 3/8 SAE GR8 ZY	4

MAST RISER ASSEMBLY **TRIMBLE - 17875**

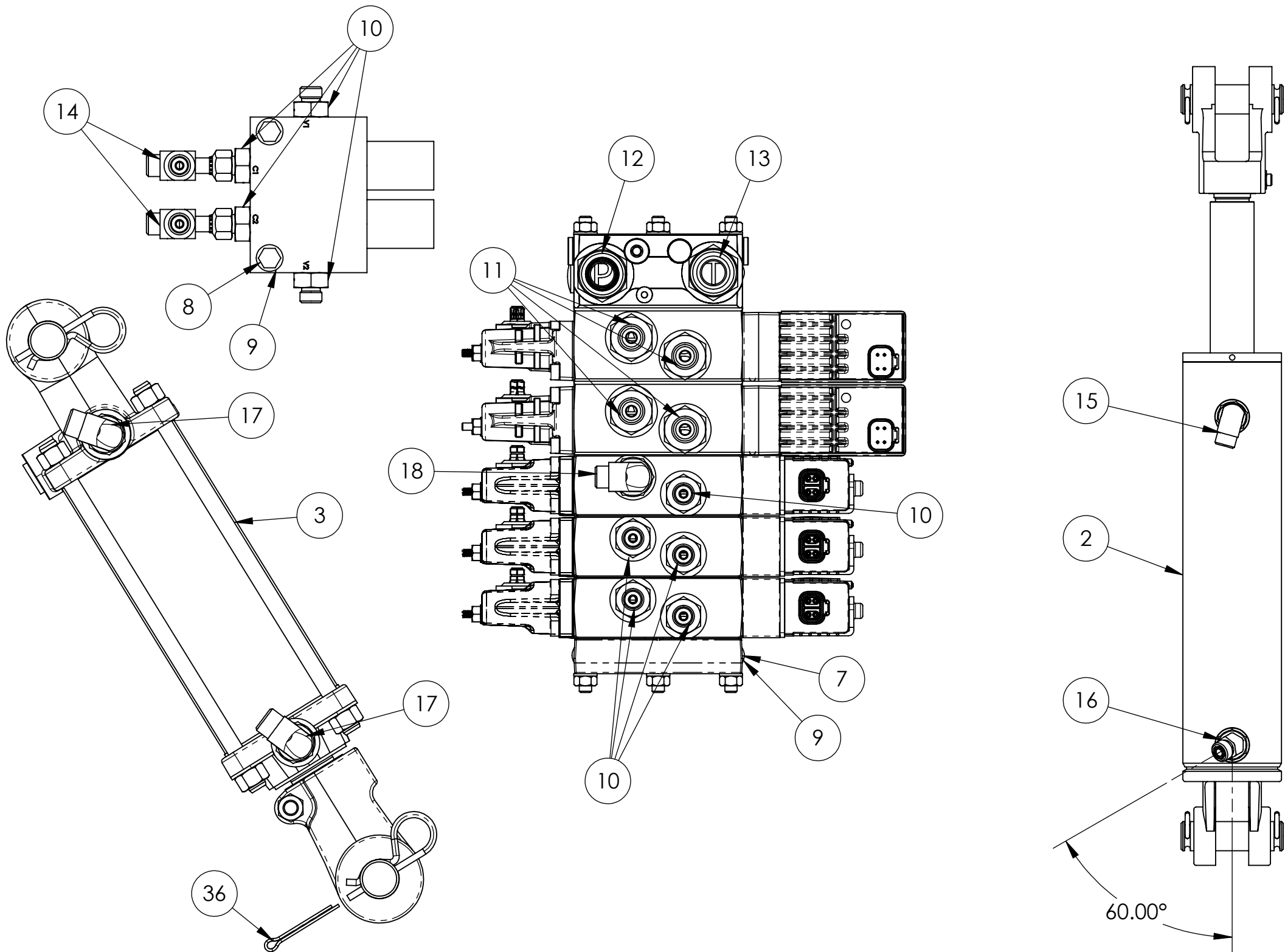


MAST RISER ASSEMBLY TRIMBLE - 17875

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	17860	MAST RISER, 16", TOPCON/TRIMBLE	1
2	17859	ARM HOLDER, TOPCON/TRIMBLE	1
3	16119	BOLT, 5/16-18 X 1-3/4 GR8 ZY	1
4	14697	WASHER, 5/16 GR8 ZY	6
5	14698	NUT, 5/16-18 GR8 ZY	2
6	17868	PLATE, TRIMBLE ROT BASE	1
7	17867	PLATE, TRIMBLE FINGER	1
8	10683	NUT, 1/4-20 SLTL GR8 ZY	6
9	10684	WASHER, 1/4 SAE GR8 ZY	10
10	10397	BOLT, 1/2-13 X 2.25 GR8 ZY	4
11	10062	WASHER, 1/2 SAE GR8 ZY	12
12	10396	NUT, 1/2-13, SLTL GR8 ZY	6
13	10394	BOLT, 1/2-13 X 1.50 GR8 ZY	2
14	17760	BOLT, 3/8-16 X 0.75" SH LP	3
15	10110	WASHER, 3/8 SAE GR8 ZY	7
16	17923	WASHER, 3/8" MIL. SPEC.	3
17	17871	BOLT, 1/2-13 X 1.25 GR8 HCS	2
18	17869	BOLT, 1/4"-20 X 2.5" GR8 SH	2
19	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	2
20	17989	BOLT, 1/4-20 X 1.5 GR8 ZY	4
21	10112	BOLT, 3/8-16 X 1 GR8 ZY	2
22	10947	NUT, 3/8-16 SLTL GR8 ZY	2



TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16168	HOSE, 1/4" X 32", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24

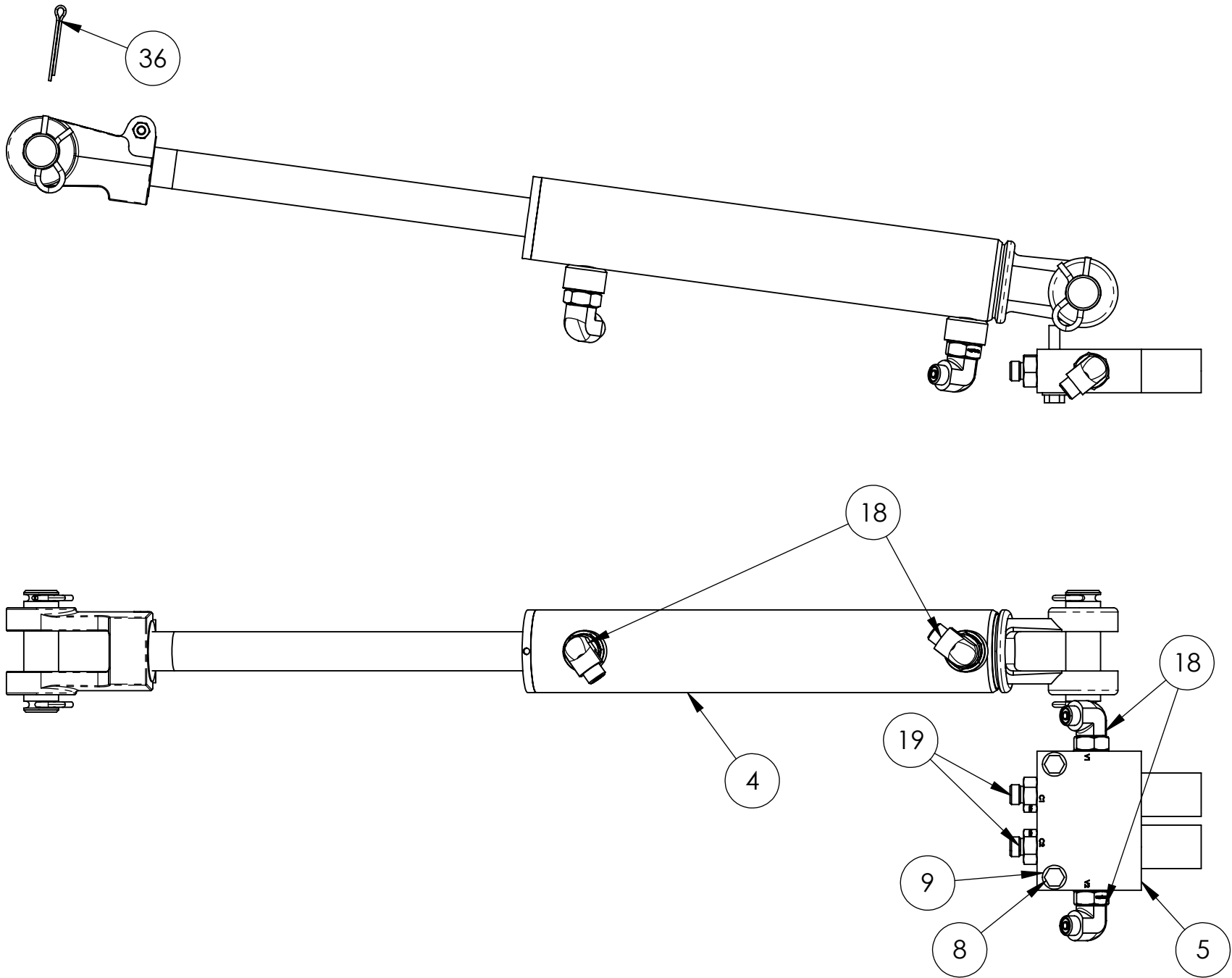


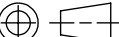
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE

	B		
3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL
UNLESS OTHERWISE SPEC. DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC.DIM. ± 1/32 DEG. ± 1°	TITLE HYDRAULIC ASSEMBLY, 7FT		
	DRAWING NUMBER 17681		
	DESIGN BY: AK DATE: 10/15/2021		

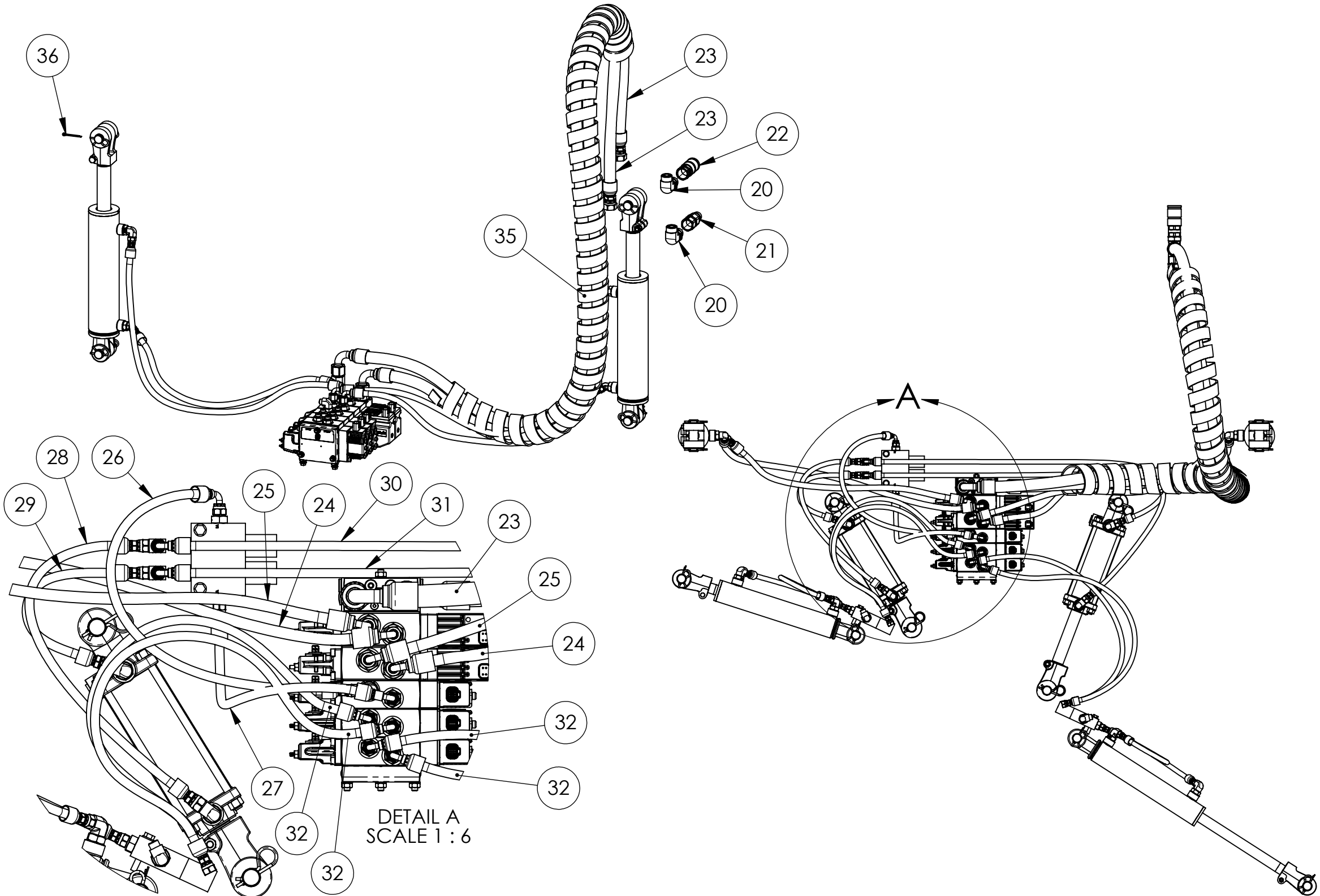
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TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16168	HOSE, 1/4" X 32", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



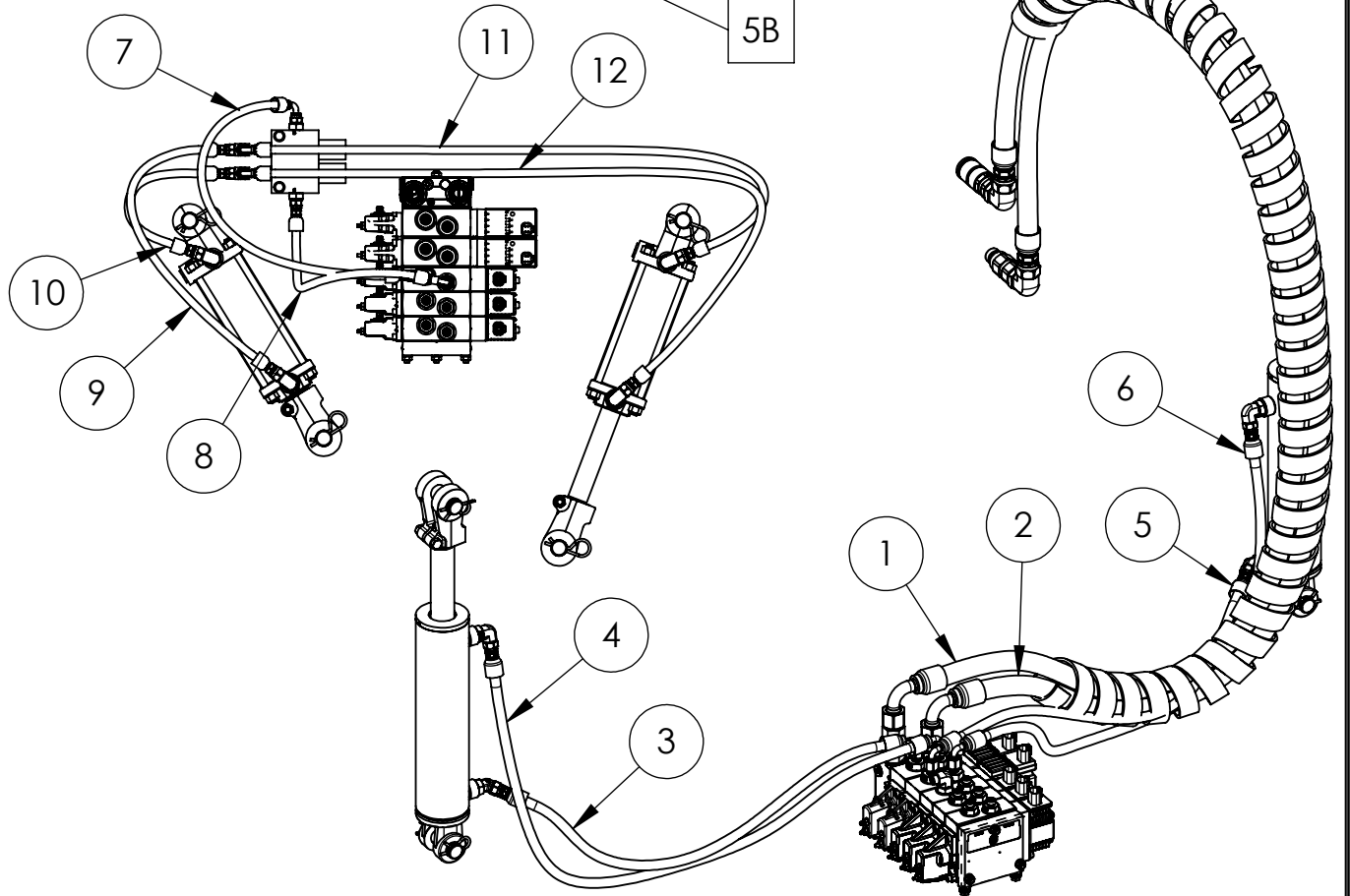
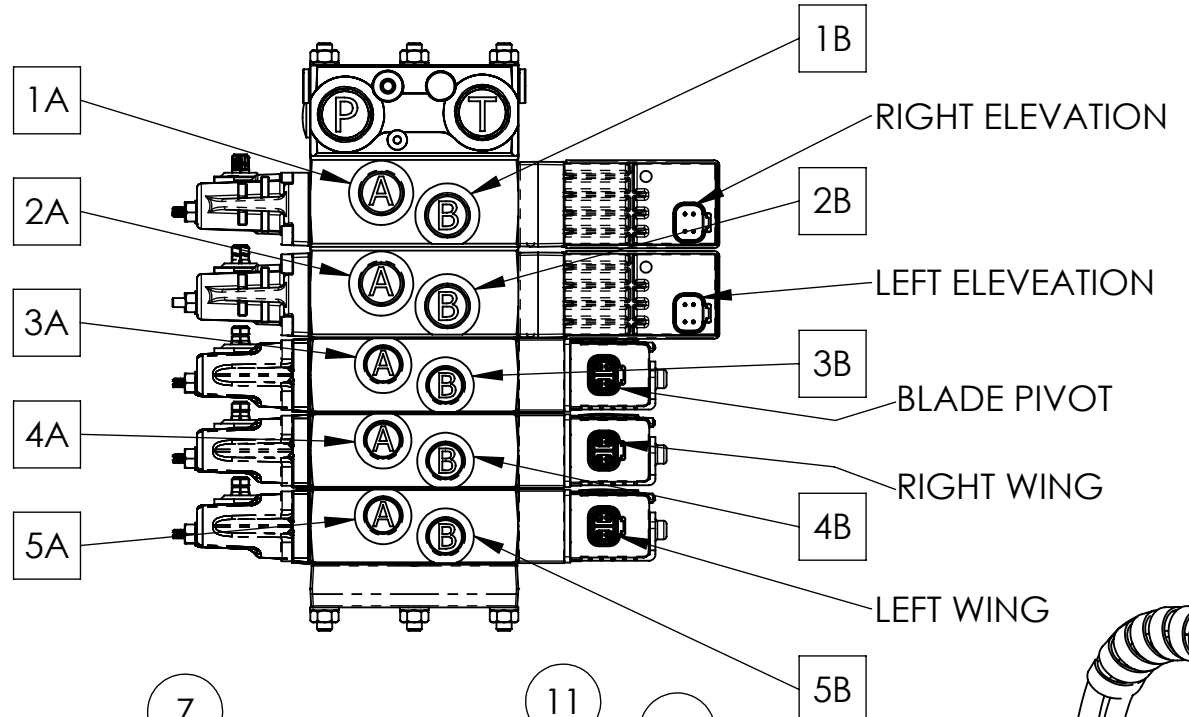
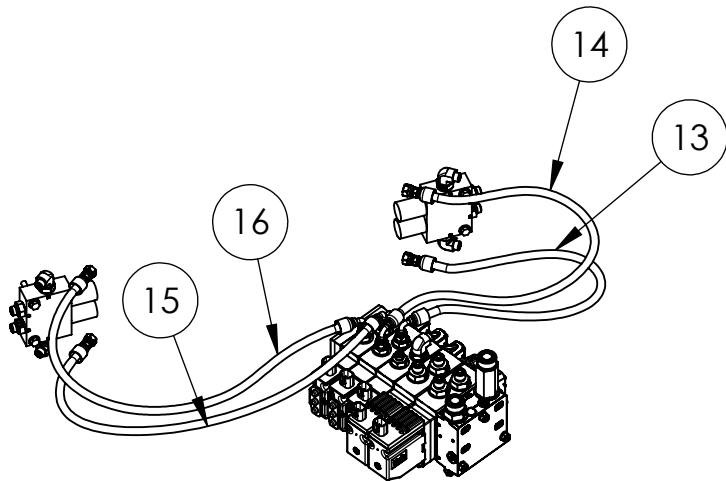
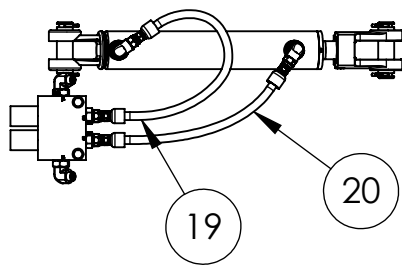
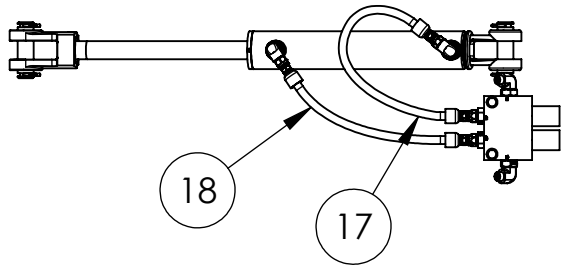
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						3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL		MATERIAL DESCRIPTION		LET
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						DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC.DIM. ± 1/32 DEG. ± 1°	HYDRAULIC ASSEMBLY, 7FT						
							DRAWING NUMBER						
							17681						
							DESIGN BY: AK		DATE: 10/15/2021				
A	185	HOSE WRAP, CHG COTR PINS			AK	1/11/22							
REV	CHANGE NUMBER	CHANGE DESCRIPTION			CHANGE BY	DATE							

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16168	HOSE, 1/4" X 32", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



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							DRAWING NUMBER				
							DESIGN BY: AK	DATE: 10/15/2021			
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22							
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE							

ITEM NO.	PART NUMBER	DESCRIPTION	START	HOSE END	STOP	HOSE END
1	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - P	#12F ORFS 90	FF COUPLER - FEMALE	#12F ORFS ST
2	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - T	#12F ORFS 90	FF COUPLER - MALE	#12F ORFS ST
3	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 1A	#6F ORFS 90	RIGHT ELEVATION - BASE	#6F ORFS ST
4	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 1B	#6F ORFS 90	RIGHT ELEVATION - ROD	#6F ORFS ST
5	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 2A	#6F ORFS 90	LEFT ELEVATION - BASE	#6F ORFS ST
6	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 2B	#6F ORFS 90	LEFT ELEVATION - ROD	#6F ORFS ST
7	16165	HOSE, 1/4" X 26", 4-4 ST-90	MAIN VALVE - 3A	#4F ORFS ST	PIVOT CHECK VALVE - V1	#4F ORFS 90
8	16173	HOSE, 1/4" X 17", 4-4 ST-90M	MAIN VALVE - 3B	#4F ORFS 90M	PIVOT CHECK VALVE - V2	#4F ORFS ST
9	16167	HOSE, 1/4" X 23", 6-4ORFS ST	PIVOT CHECK VALVE - C1	#4F ORFS ST	RIGHT PIVOT CYL - ROD	#6F ORFS ST
10	16166	HOSE, 1/4" X 14", 6-4ORFS ST	PIVOT CHECK VALVE - C2	#4F ORFS ST	RIGHT PIVOT CYL - BASE	#6F ORFS ST
11	16171	HOSE, 1/4" X 42", 6-4 ST-90	PIVOT CHECK VALVE - C1	#4F ORFS 90	LEFT PIVOT CYL - BASE	#6F ORFS ST
12	16172	HOSE, 1/4" X 49", 6-4 ST-90	PIVOT CHECK VALVE - C2	#4F ORFS 90	LEFT PIVOT CYL - ROD	#6F ORFS ST
13	16168	HOSE, 1/4" X 32", 4-4 ST-90	MAIN VALVE - 4A	#4F ORFS 90	RIGHT CHECK VALVE - V1	#4F ORFS ST
14	16168	HOSE, 1/4" X 32", 4-4 ST-90	MAIN VALVE - 4B	#4F ORFS 90	RIGHT CHECK VALVE - V2	#4F ORFS ST
15	16168	HOSE, 1/4" X 32", 4-4 ST-90	MAIN VALVE - 5A	#4F ORFS 90	LEFT CHECK VALVE - V2	#4F ORFS ST
16	16168	HOSE, 1/4" X 32", 4-4 ST-90	MAIN VALVE - 5B	#4F ORFS 90	LEFT CHECK VALVE - V1	#4F ORFS ST
17	16611	HOSE, 1/4" X 20", 4F ORFS ST	LEFT CHECK VALVE - C1	#4F ORFS ST	LEFT WING CYL - BASE	#4F ORFS ST
18	16610	HOSE, 1/4" X 14", 4F ORFS ST	LEFT CHECK VALVE - C2	#4F ORFS ST	LEFT WING CYL - ROD	#4F ORFS ST
19	16611	HOSE, 1/4" X 20", 4F ORFS ST	RIGHT CHECK VALVE - C2	#4F ORFS ST	RIGHT WING CYL - BASE	#4F ORFS ST
20	16610	HOSE, 1/4" X 14", 4F ORFS ST	RIGHT CHECK VALVE - C1	#4F ORFS ST	RIGHT WING CYL - ROD	#4F ORFS ST

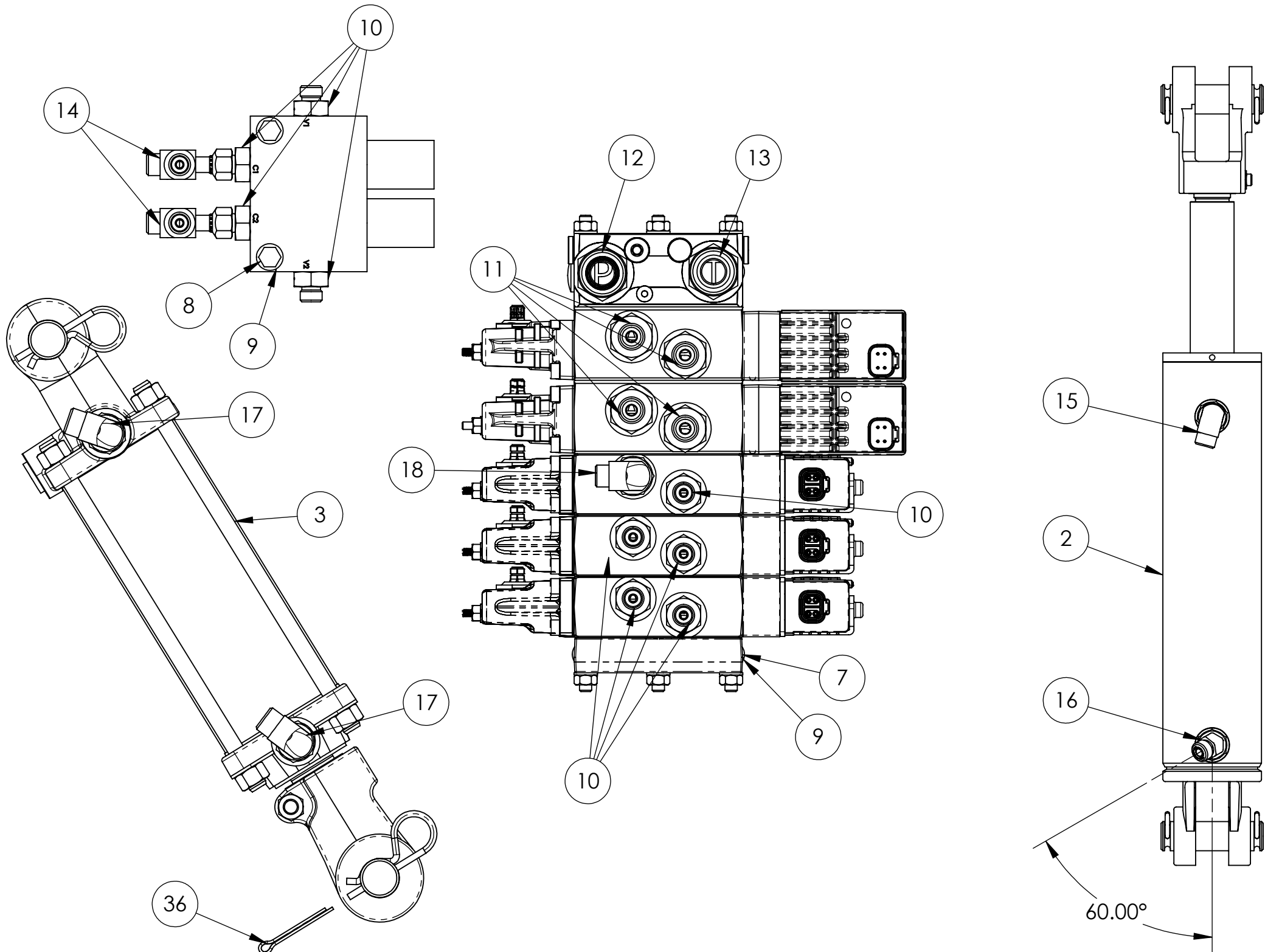


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					3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL	MATERIAL DESCRIPTION	LET
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						DRAWING NUMBER 17681				
						DESIGN BY: AK	DATE: 10/15/2021			
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22						
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE						

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TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
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25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16608	HOSE, 1/4" X 38", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
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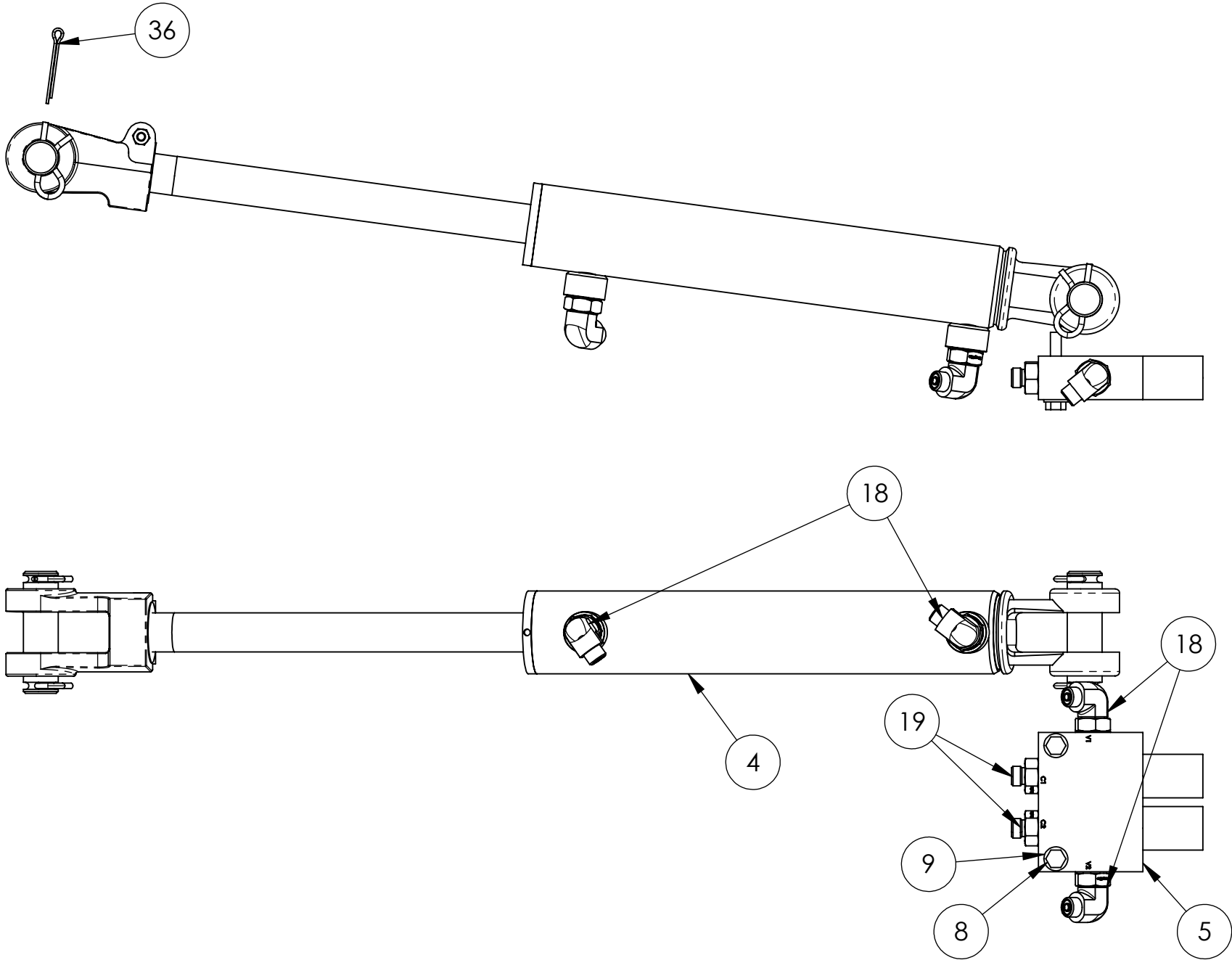


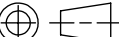
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE

	B		
3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL
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	DRAWING NUMBER 17682		
	DESIGN BY: AK	DATE: 10/15/2021	

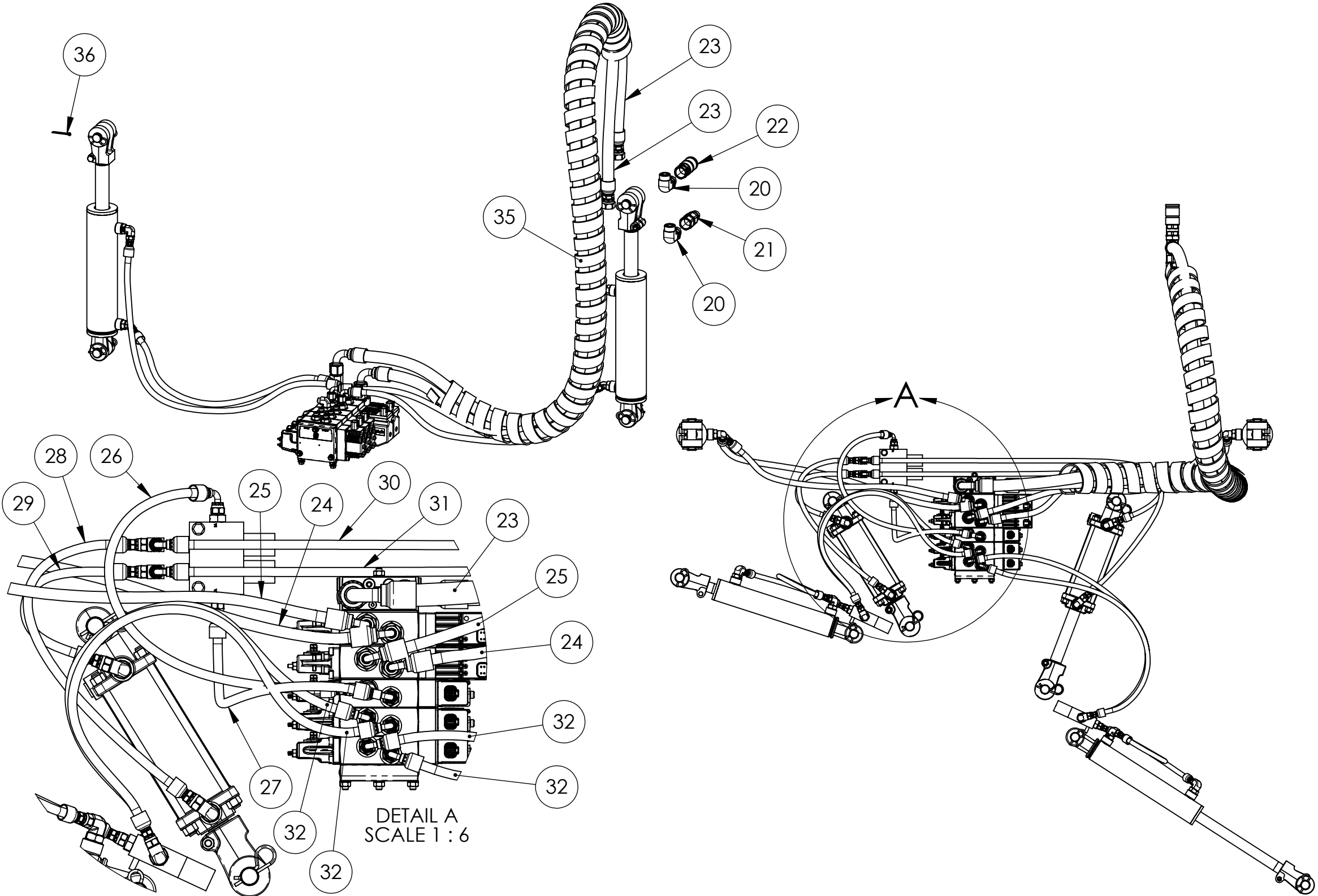
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4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
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12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
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16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16608	HOSE, 1/4" X 38", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



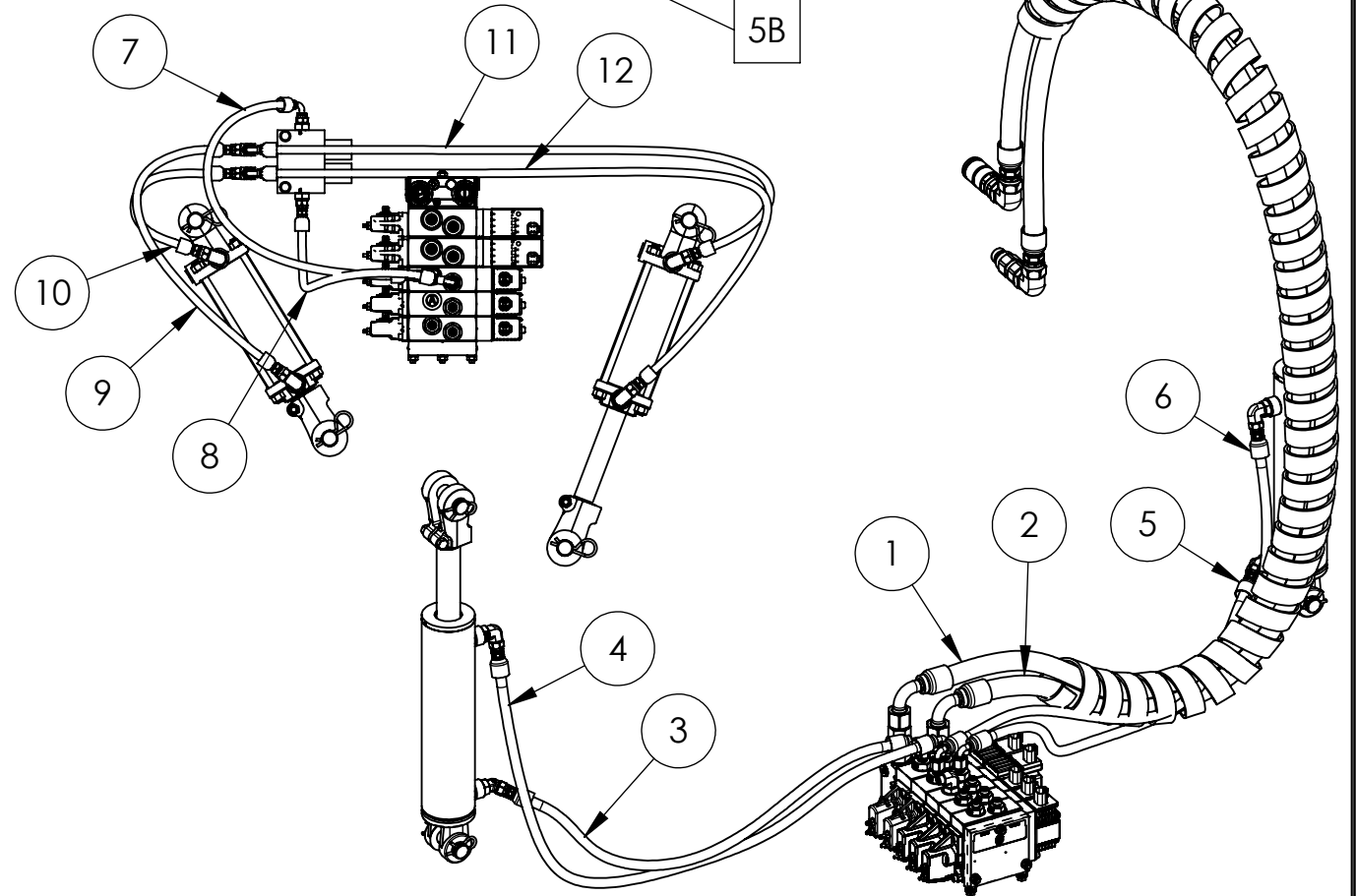
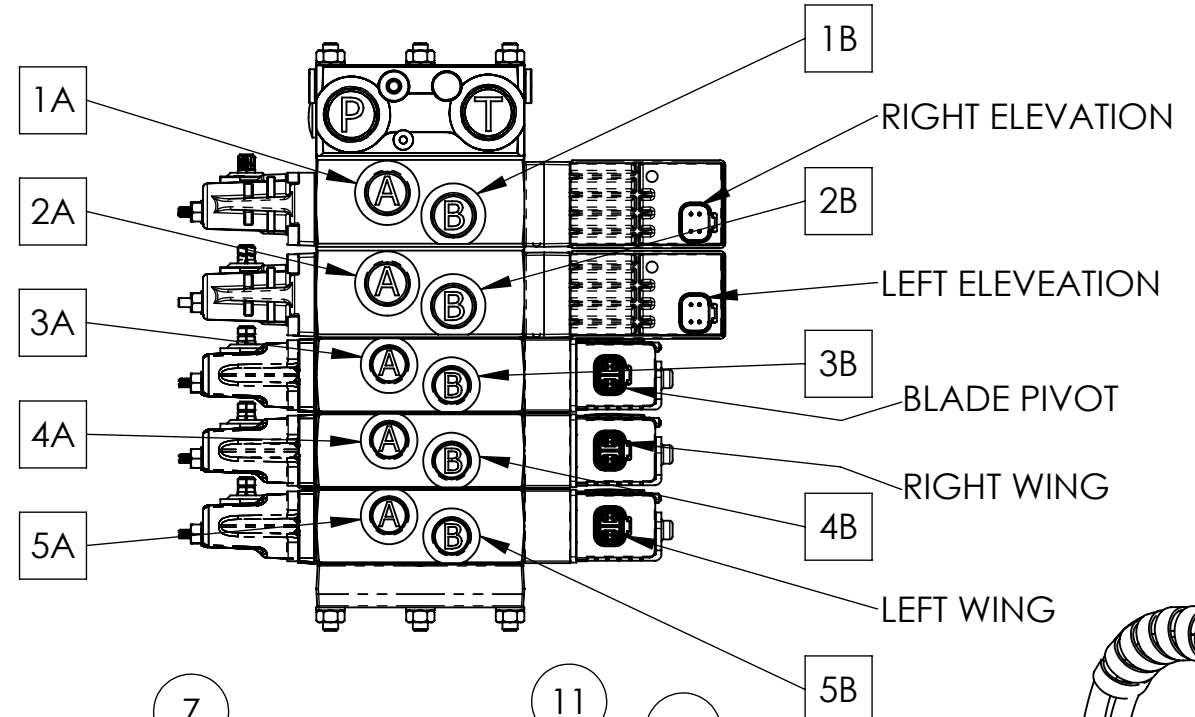
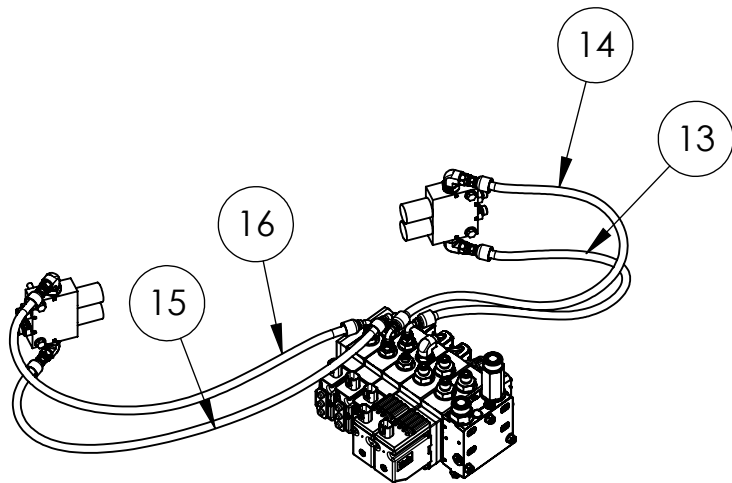
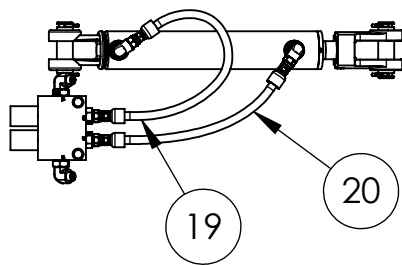
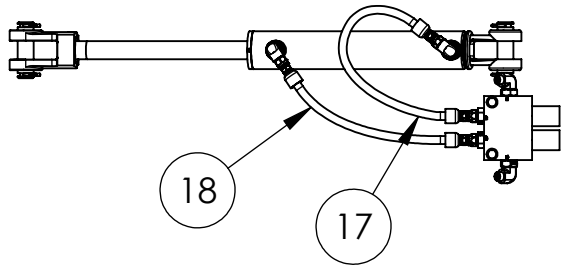
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						3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL		MATERIAL DESCRIPTION		LET
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						DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC.DIM. ± 1/32 DEG. ± 1°	HYDRAULIC ASSEMBLY, 8 FT						
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22			DRAWING NUMBER						
							17682						
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE			DESIGN BY: AK		DATE: 10/15/2021				

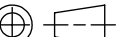
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16608	HOSE, 1/4" X 38", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



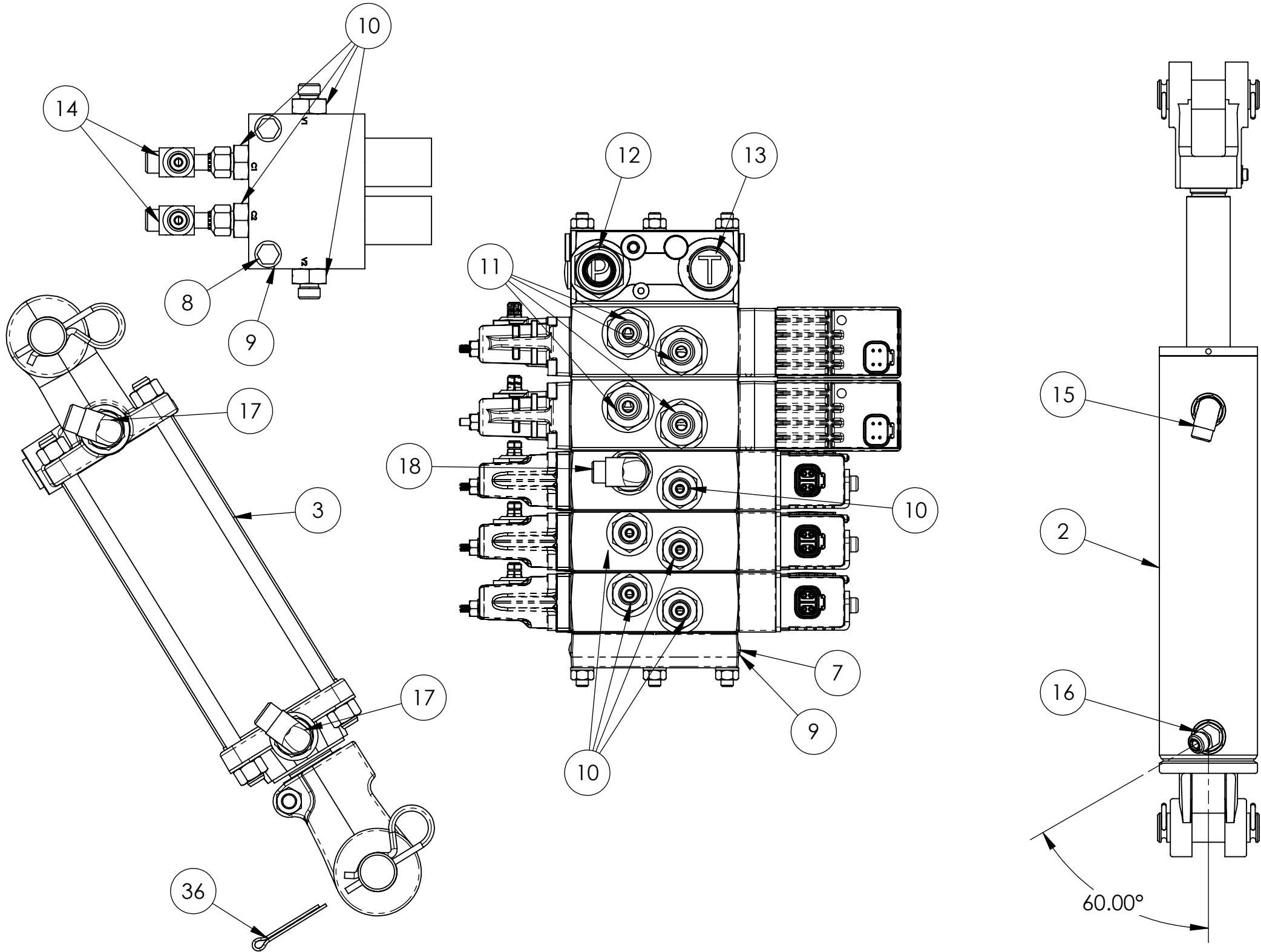
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							DRAWING NUMBER 17682				
							DESIGN BY: AK	DATE: 10/15/2021			
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22							
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE							

ITEM NO.	PART NUMBER	DESCRIPTION	START	HOSE END	STOP	HOSE END
1	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - P	#12F ORFS 90	FF COUPLER - FEMALE	#12F ORFS ST
2	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - T	#12F ORFS 90	FF COUPLER - MALE	#12F ORFS ST
3	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 1A	#6F ORFS 90	RIGHT ELEVATION - BASE	#6F ORFS ST
4	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 1B	#6F ORFS 90	RIGHT ELEVATION - ROD	#6F ORFS ST
5	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 2A	#6F ORFS 90	LEFT ELEVATION - BASE	#6F ORFS ST
6	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 2B	#6F ORFS 90	LEFT ELEVATION - ROD	#6F ORFS ST
7	16165	HOSE, 1/4" X 26", 4-4 ST-90	MAIN VALVE - 3A	#4F ORFS ST	PIVOT CHECK VALVE - V1	#4F ORFS 90
8	16173	HOSE, 1/4" X 17", 4-4 ST-90M	MAIN VALVE - 3B	#4F ORFS 90M	PIVOT CHECK VALVE - V2	#4F ORFS ST
9	16167	HOSE, 1/4" X 23", 6-4ORFS ST	PIVOT CHECK VALVE - C1	#4F ORFS ST	RIGHT PIVOT CYL - ROD	#6F ORFS ST
10	16166	HOSE, 1/4" X 14", 6-4ORFS ST	PIVOT CHECK VALVE - C2	#4F ORFS ST	RIGHT PIVOT CYL - BASE	#6F ORFS ST
11	16171	HOSE, 1/4" X 42", 6-4 ST-90	PIVOT CHECK VALVE - C1	#4F ORFS 90	LEFT PIVOT CYL - BASE	#6F ORFS ST
12	16172	HOSE, 1/4" X 49", 6-4 ST-90	PIVOT CHECK VALVE - C2	#4F ORFS 90	LEFT PIVOT CYL - ROD	#6F ORFS ST
13	16608	HOSE, 1/4" X 38", 4-4 ST-90	MAIN VALVE - 4A	#4F ORFS 90	RIGHT CHECK VALVE - V1	#4F ORFS ST
14	16608	HOSE, 1/4" X 38", 4-4 ST-90	MAIN VALVE - 4B	#4F ORFS 90	RIGHT CHECK VALVE - V2	#4F ORFS ST
15	16608	HOSE, 1/4" X 38", 4-4 ST-90	MAIN VALVE - 5A	#4F ORFS 90	LEFT CHECK VALVE - V2	#4F ORFS ST
16	16608	HOSE, 1/4" X 38", 4-4 ST-90	MAIN VALVE - 5B	#4F ORFS 90	LEFT CHECK VALVE - V1	#4F ORFS ST
17	16611	HOSE, 1/4" X 20", 4F ORFS ST	LEFT CHECK VALVE - C1	#4F ORFS ST	LEFT WING CYL - BASE	#4F ORFS ST
18	16610	HOSE, 1/4" X 14", 4F ORFS ST	LEFT CHECK VALVE - C2	#4F ORFS ST	LEFT WING CYL - ROD	#4F ORFS ST
19	16611	HOSE, 1/4" X 20", 4F ORFS ST	RIGHT CHECK VALVE - C2	#4F ORFS ST	RIGHT WING CYL - BASE	#4F ORFS ST
20	16610	HOSE, 1/4" X 14", 4F ORFS ST	RIGHT CHECK VALVE - C1	#4F ORFS ST	RIGHT WING CYL - ROD	#4F ORFS ST



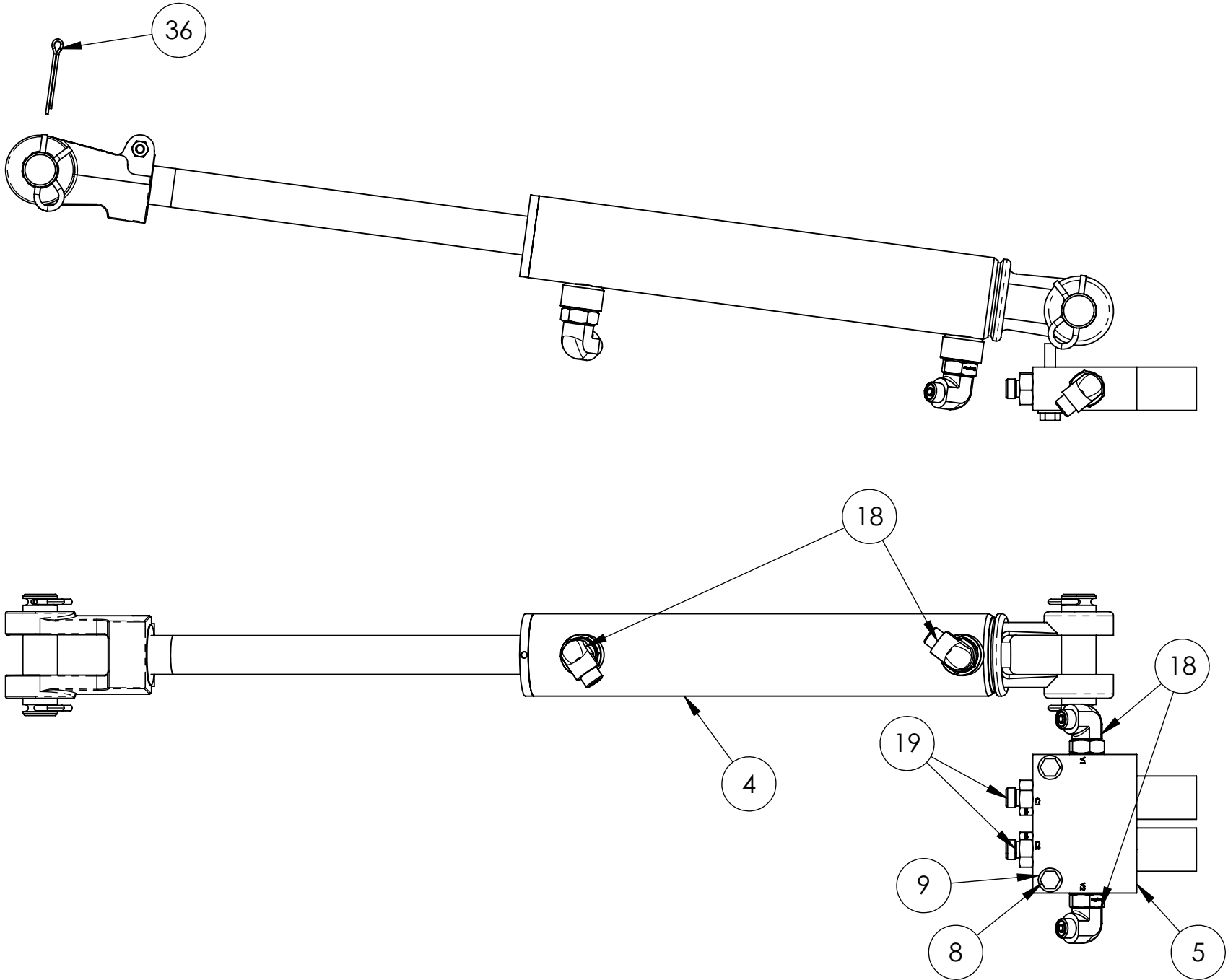
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						UNLESS OTHERWISE SPEC. DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC.DIM. ± 1/32 DEG. ± 1°	TITLE HYDRAULIC ASSEMBLY, 8 FT		NOTICE: THIS DOCUMENT AND ITS CONTENTS ARE THE PROPERTY OF BURCHLAND MFG. LLC. NO USE OR COPIES MAY BE MADE WITHOUT WRITTEN PERMISSION FROM BURCHLAND MFG. LLC. BURCHLAND MFG.		
							DRAWING NUMBER 17682				
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22			DESIGN BY: AK		DATE: 10/15/2021		
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE							

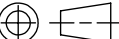
TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16609	HOSE, 1/4" X 35", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



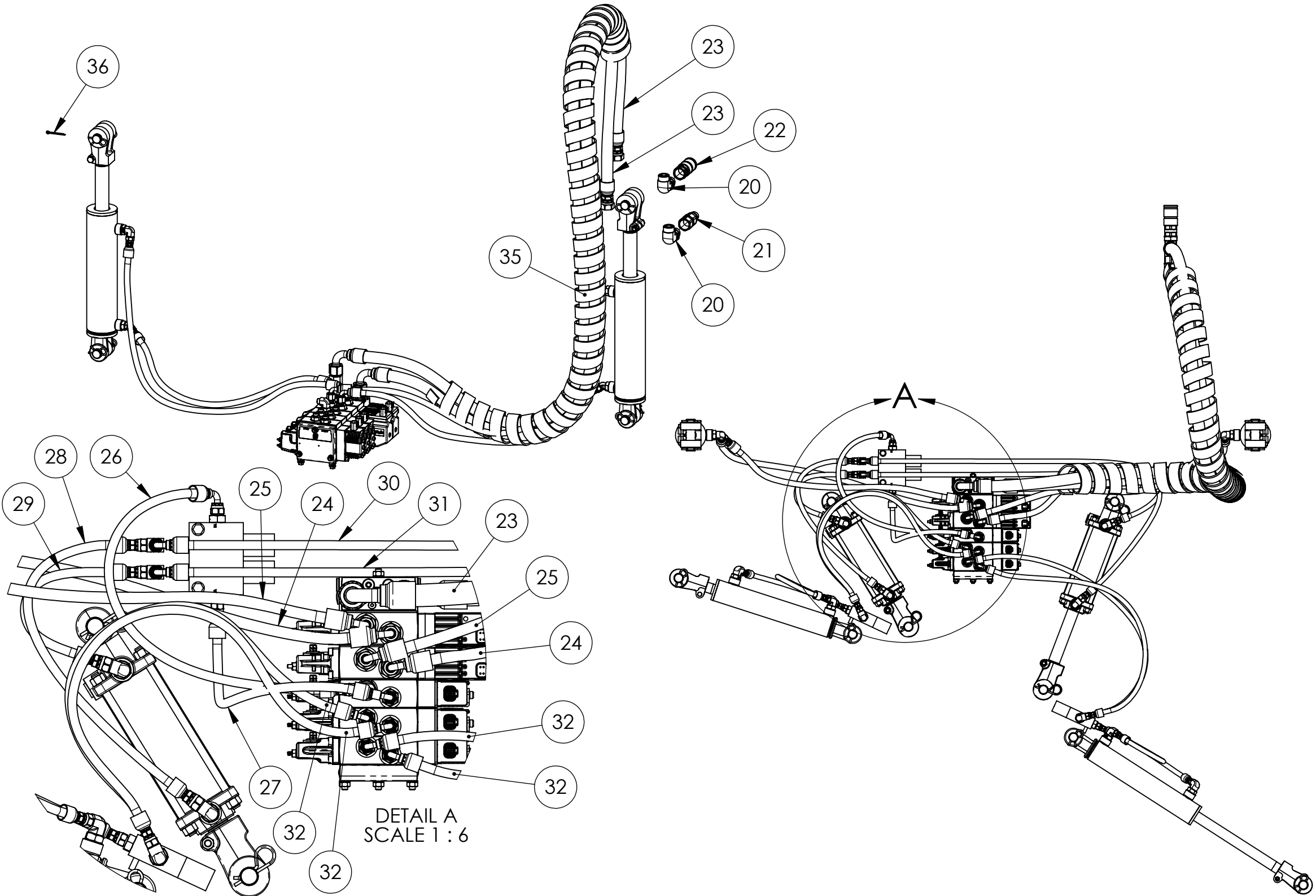
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REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE							
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22							

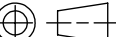
TEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
15	15347	FITTING, 6M ORFS X 8M ORB 90	2
16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
18	12765	FITTING, 4M ORFS X 8M ORB 90	9
19	16157	FITTING, 4ORFS - 8ORB ST RST	4
20	16158	FITTING, 12ORFS - 12ORB 90	2
21	14876	FFC, 1/2" M X 12 F ORB	1
22	14877	FFC, 1/2" F X 12 F ORB	1
23	16734	HOSE, 3/4" X 110", 12ORFS ST-90	2
24	16163	HOSE, 3/8" X 46", 6-6 ST-90	2
25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16609	HOSE, 1/4" X 35", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24



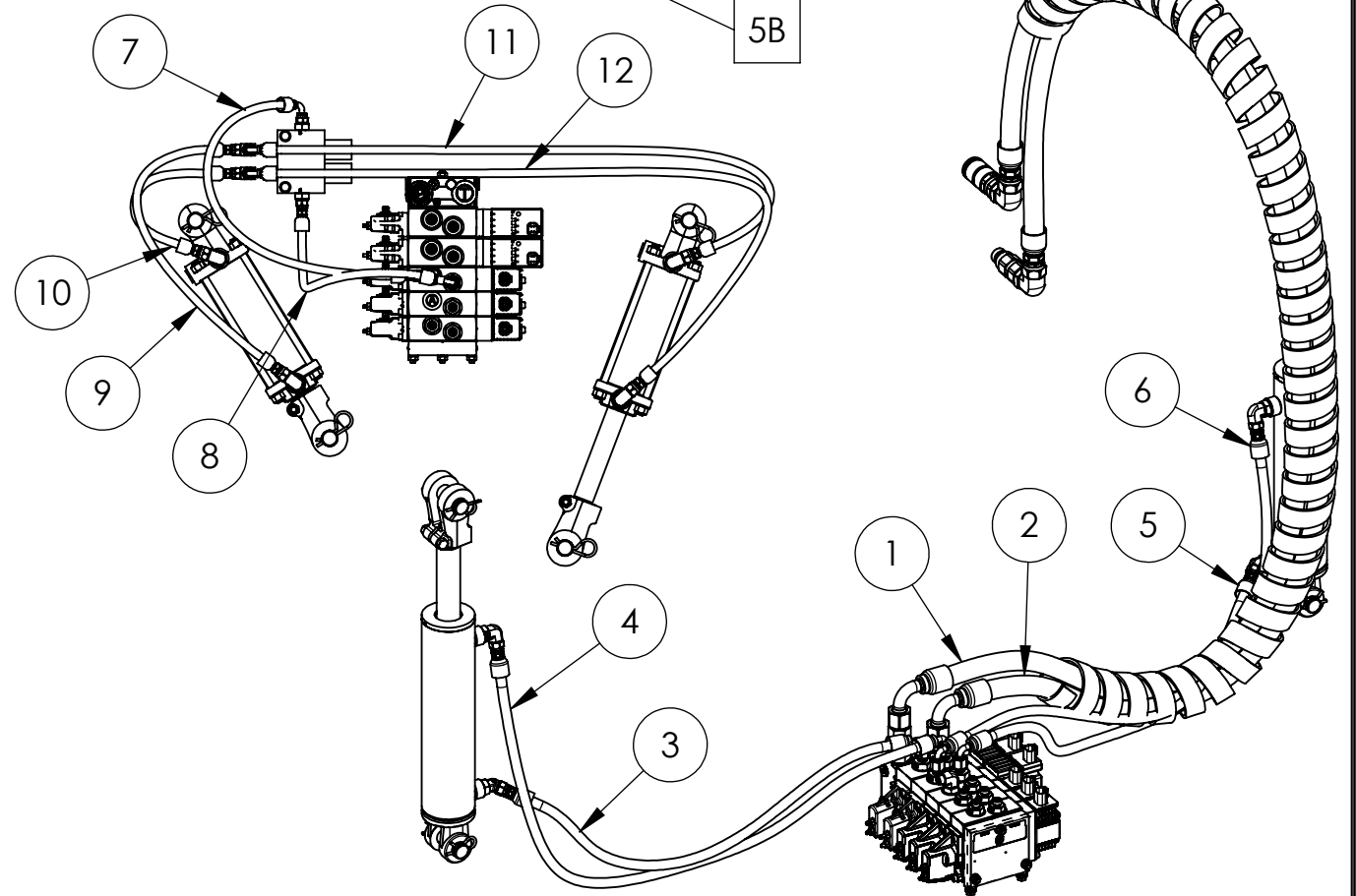
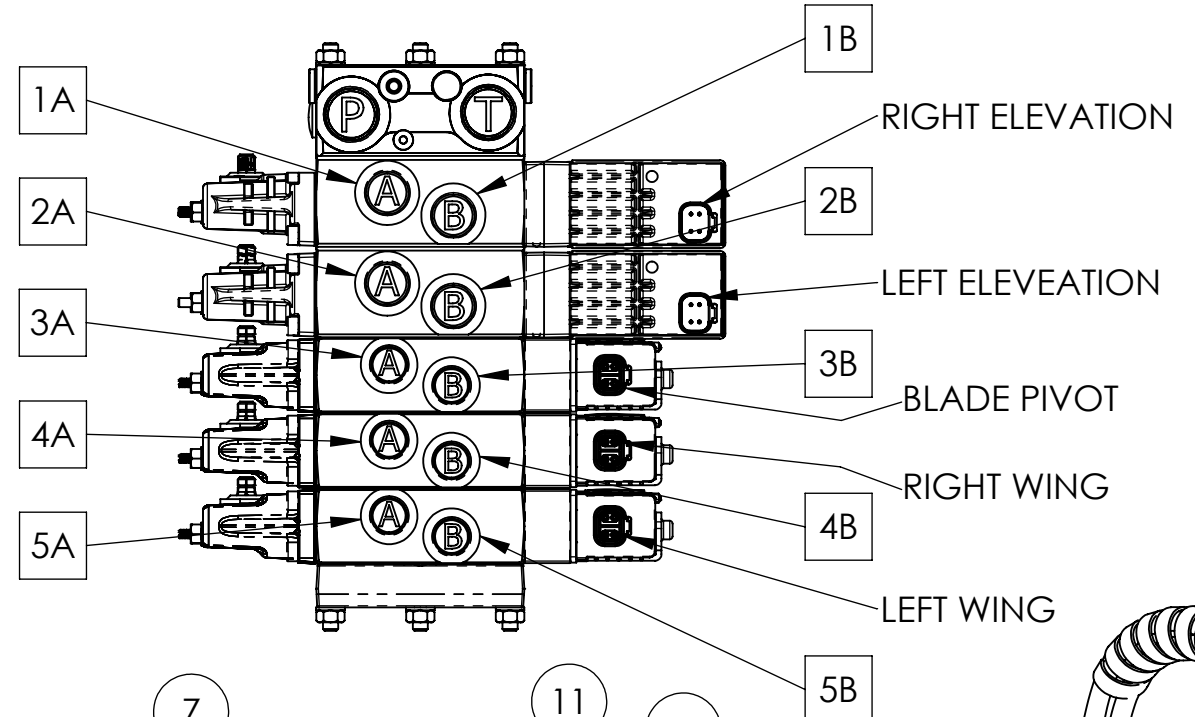
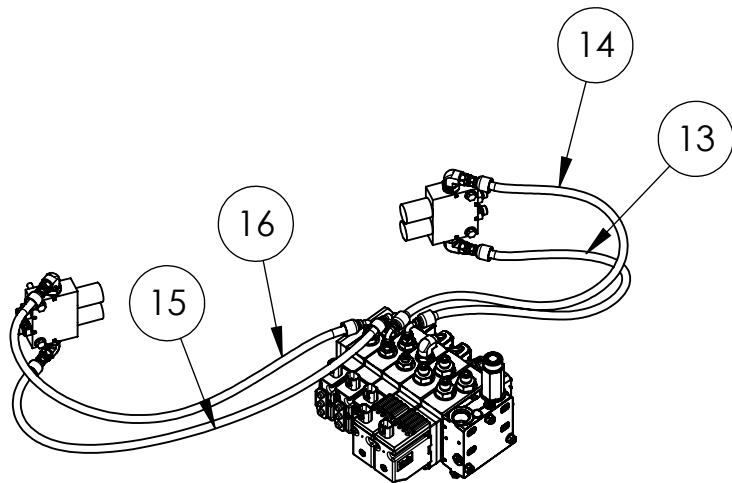
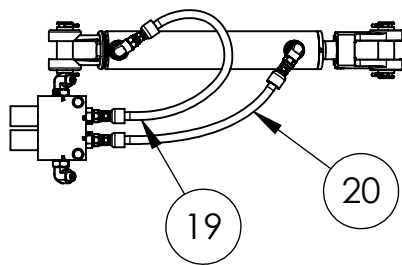
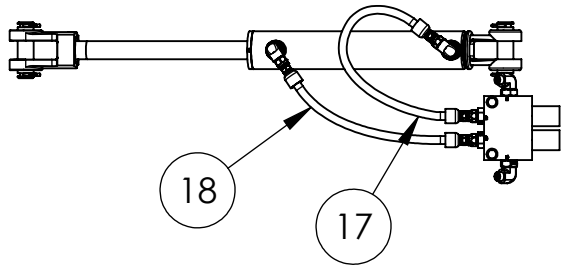
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							DRAWING NUMBER 17683						
A	185	HOSE WRAP, CHG COTR PINS			AK	1/11/22	DESIGN BY: AK		DATE: 10/15/2021				
REV	CHANGE NUMBER	CHANGE DESCRIPTION			CHANGE BY	DATE							

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	16152	VALVE, DANFOSS PVG ASSY	1
2	17183	HYD CYL, 3" x 10" x 1-1/2"	2
3	15837	HYD CYL, 3" x 6" x 1-1/4"	2
4	15674	HYD CYL, 2" x 10" x 1-1/8"	2
5	16150	VALVE, C BALANCE 1500PSI	2
6	16151	VALVE, C BALANCE 3000PSI	1
7	16118	BOLT, 5/16-18 X 3/4 GR8 ZY	4
8	16685	BOLT, 5/16-18 X 2.0 GR8 ZY	6
9	14697	WASHER, 5/16 GR8 ZY	10
10	15407	FITTING, 4M ORFS X 8M ORB ST	9
11	14625	FITTING, 6M ORFS X 10M ORB ST	4
12	16735	FITTING, 12M ORFS-ORB LONG	1
13	16736	FITTING, #12 CHECK VALVE	1
14	16156	FITTING, 4 ORFS RUN TEE	2
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16	14674	FITTING, 6M ORFS X 8M ORB 45	2
17	13533	FITTING, 6M ORFS X 8M ORB 90, RST	4
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21	14876	FFC, 1/2" M X 12 F ORB	1
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25	17684	HOSE, 3/8" X 36", 6-6 ST-90	2
26	16165	HOSE, 1/4" X 26", 4-4 ST-90	1
27	16173	HOSE, 1/4" X 17", 4-4 ST-90M	1
28	16167	HOSE, 1/4" X 23", 6-4ORFS ST	1
29	16166	HOSE, 1/4" X 14", 6-4ORFS ST	1
30	16171	HOSE, 1/4" X 42", 6-4 ST-90	1
31	16172	HOSE, 1/4" X 49", 6-4 ST-90	1
32	16609	HOSE, 1/4" X 35", 4-4 ST-90	4
33	16611	HOSE, 1/4" X 20", 4F ORFS ST	2
34	16610	HOSE, 1/4" X 14", 4F ORFS ST	2
35	17890	HOSE WRAP, GRADER 7FT	1
36	10963	COTTER PIN, 1/8 X 1.75	24

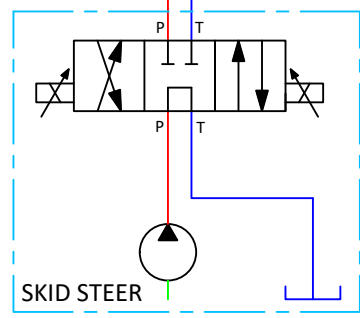
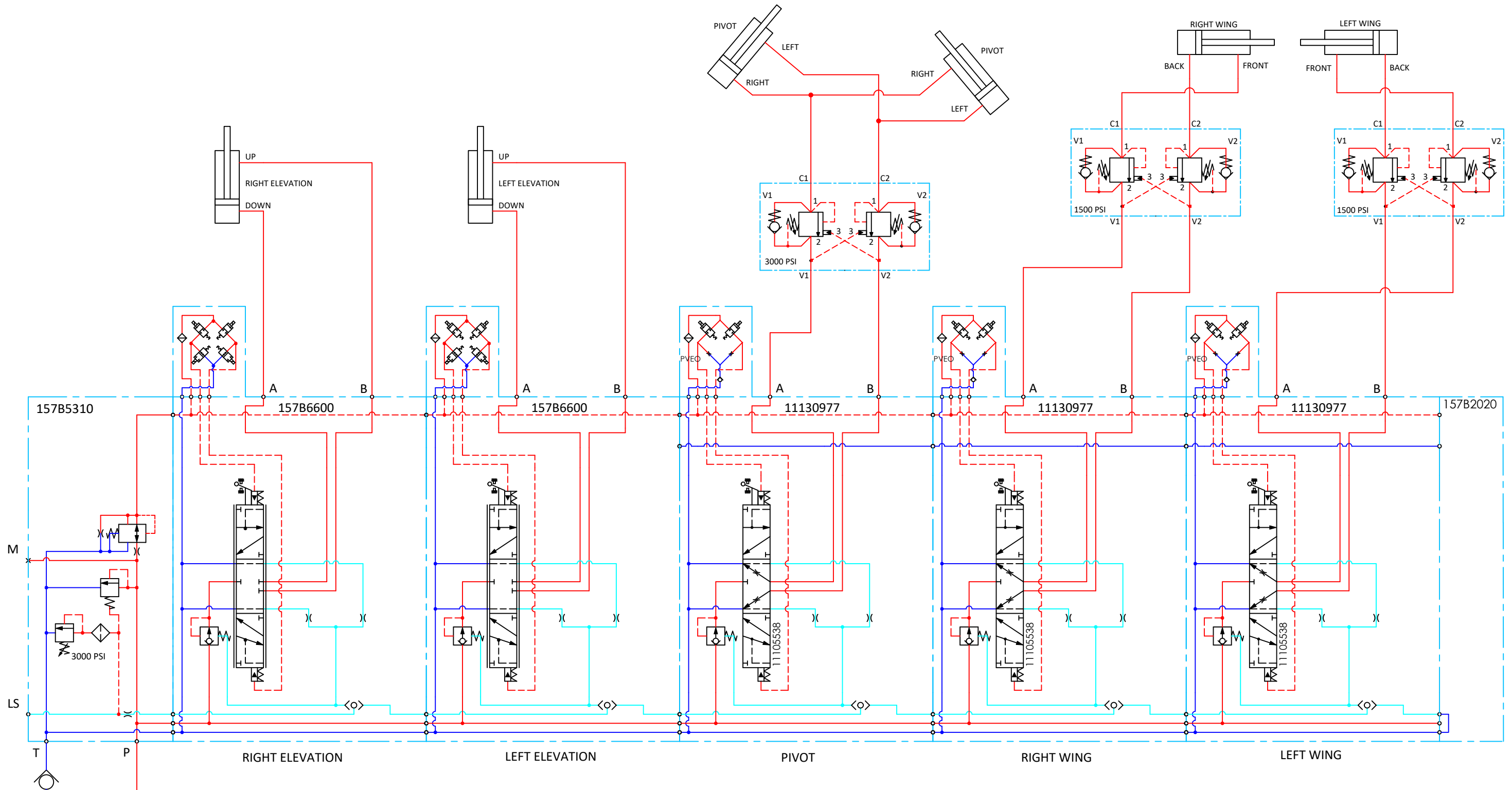


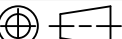
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							DRAWING NUMBER							
A	185	HOSE WRAP, CHG COTR PINS			AK	1/11/22	17683							
REV	CHANGE NUMBER	CHANGE DESCRIPTION			CHANGE BY	DATE	DESIGN BY: AK			DATE: 10/15/2021				

ITEM NO.	PART NUMBER	DESCRIPTION	START	HOSE END	STOP	HOSE END
1	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - P	#12F ORFS 90	FF COUPLER - FEMALE	#12F ORFS ST
2	16734	HOSE, 3/4" X 110", 12ORFS ST-90	MAIN VALVE - T	#12F ORFS 90	FF COUPLER - MALE	#12F ORFS ST
3	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 1A	#6F ORFS 90	RIGHT ELEVATION - BASE	#6F ORFS ST
4	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 1B	#6F ORFS 90	RIGHT ELEVATION - ROD	#6F ORFS ST
5	17684	HOSE, 3/8" X 36", 6-6 ST-90	MAIN VALVE - 2A	#6F ORFS 90	LEFT ELEVATION - BASE	#6F ORFS ST
6	16163	HOSE, 3/8" X 46", 6-6 ST-90	MAIN VALVE - 2B	#6F ORFS 90	LEFT ELEVATION - ROD	#6F ORFS ST
7	16165	HOSE, 1/4" X 26", 4-4 ST-90	MAIN VALVE - 3A	#4F ORFS ST	PIVOT CHECK VALVE - V1	#4F ORFS 90
8	16173	HOSE, 1/4" X 17", 4-4 ST-90M	MAIN VALVE - 3B	#4F ORFS 90M	PIVOT CHECK VALVE - V2	#4F ORFS ST
9	16167	HOSE, 1/4" X 23", 6-4ORFS ST	PIVOT CHECK VALVE - C1	#4F ORFS ST	RIGHT PIVOT CYL - ROD	#6F ORFS ST
10	16166	HOSE, 1/4" X 14", 6-4ORFS ST	PIVOT CHECK VALVE - C2	#4F ORFS ST	RIGHT PIVOT CYL - BASE	#6F ORFS ST
11	16171	HOSE, 1/4" X 42", 6-4 ST-90	PIVOT CHECK VALVE - C1	#4F ORFS 90	LEFT PIVOT CYL - BASE	#6F ORFS ST
12	16172	HOSE, 1/4" X 49", 6-4 ST-90	PIVOT CHECK VALVE - C2	#4F ORFS 90	LEFT PIVOT CYL - ROD	#6F ORFS ST
13	16609	HOSE, 1/4" X 35", 4-4 ST-90	MAIN VALVE - 4A	#4F ORFS 90	RIGHT CHECK VALVE - V1	#4F ORFS ST
14	16609	HOSE, 1/4" X 35", 4-4 ST-90	MAIN VALVE - 4B	#4F ORFS 90	RIGHT CHECK VALVE - V2	#4F ORFS ST
15	16609	HOSE, 1/4" X 35", 4-4 ST-90	MAIN VALVE - 5A	#4F ORFS 90	LEFT CHECK VALVE - V2	#4F ORFS ST
16	16609	HOSE, 1/4" X 35", 4-4 ST-90	MAIN VALVE - 5B	#4F ORFS 90	LEFT CHECK VALVE - V1	#4F ORFS ST
17	16611	HOSE, 1/4" X 20", 4F ORFS ST	LEFT CHECK VALVE - C1	#4F ORFS ST	LEFT WING CYL - BASE	#4F ORFS ST
18	16610	HOSE, 1/4" X 14", 4F ORFS ST	LEFT CHECK VALVE - C2	#4F ORFS ST	LEFT WING CYL - ROD	#4F ORFS ST
19	16611	HOSE, 1/4" X 20", 4F ORFS ST	RIGHT CHECK VALVE - C2	#4F ORFS ST	RIGHT WING CYL - BASE	#4F ORFS ST
20	16610	HOSE, 1/4" X 14", 4F ORFS ST	RIGHT CHECK VALVE - C1	#4F ORFS ST	RIGHT WING CYL - ROD	#4F ORFS ST



						B				
					3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL	MATERIAL DESCRIPTION	LET
					UNLESS OTHERWISE SPEC. DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010 FRAC.DIM. ± 1/32 DEG. ± 1°	TITLE HYDRAULIC ASSEMBLY, 7-1/2F			NOTICE: THIS DOCUMENT AND ITS CONTENTS ARE THE PROPERTY OF BURCHLAND MFG. LLC. NO USE OR COPIES MAY BE MADE WITHOUT WRITTEN PERMISSION FROM BURCHLAND MFG. LLC.	BURCHLAND MFG.
						DRAWING NUMBER 17683				
						DESIGN BY: AK	DATE: 10/15/2021			
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE						
A	185	HOSE WRAP, CHG COTR PINS	AK	1/11/22						



						B					
					3RD ANGLE PROJECTION	PAGE OF	REQD	ITEM NUMBER / MATERIAL		MATERIAL DESCRIPTION	LET
					UNLESS OTHERWISE SPEC.	TITLE		NOTICE: THIS DOCUMENT AND ITS CONTENTS ARE THE PROPERTY OF BURCHLAND MFG. LLC. NO USE OR COPIES MAY BE MADE WITHOUT WRITTEN PERMISSION FROM BURCHLAND MFG, LLC. BURCHLAND MFG.			
					DIMNS. IN INCHES ANSI Y14.5-1982 W.P.S. 1-1-A-100 STD. TOLERANCES X.X ± .060 X.XX ± .030 X.XXX ± .010	GRADER HYD SCHEMATIC					
					FRAC.DIM. ± 1/32 DEG. ± 1°	DRAWING NUMBER					
REV	CHANGE NUMBER	CHANGE DESCRIPTION	CHANGE BY	DATE		DESIGN BY: AK		DATE: 9/19/2019			