

Rev 09-22

Part No. 37002994247P

KB21 ROTARY MOWER

Parts Manual



¡ATENCIÓN!

LEA EL INSTRUCTIVO



Si No Lee Ingles, Pida
Ayuda a Alguien
Que Se Lo Lea Para Que le
Traduzca Las
Medidas de Seguridad



An Operator's Manual was shipped with the equipment in the Manual Canister. This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. **READ, UNDERSTAND, and FOLLOW** the **SAFETY** and Operation Instructions contained in this manual before operating the equipment. If the Operator's Manual is not with the equipment, contact your dealer or Terrain King 800-882-5756 to obtain a Free copy before operating the equipment.

TO THE OWNER/OPERATOR/DEALER

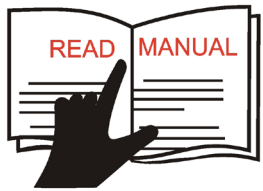
All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!! Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!



DANGER

FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTION CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.

1. 	2. NO RIDERS. NO CHILDREN OPERATORS. 	3. USE SAFETY SHOES, HARD HAT, SAFETY GLASSES, SEAT BELTS, ROPS & OPS. 	4. BLOCK UP SECURELY BEFORE WORKING UNDER. 
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1. Study and understand Operator's Manuals, Safety Decals, and Instructional Decals for tractor and implement to prevent misuse, abuse, and accidents. Practice before operating in a confined area or near passersby.
• Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.

2. Allow no children on or near folding mower or tractor. Allow no riders on tractor or implement. Falling off may cause serious injury or death from being run over by tractor or mower or contact with rotating blades.

3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seat belt securely fastened to prevent injury and possible death from falling off or tractor overturn.
• Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, & Ear Plugs are recommended.

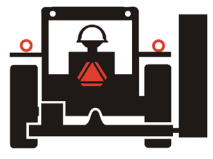
4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain area is clear before lowering or folding.

5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding mowers. Put Booms securely in Transport Rest.
• Folding and Boom Mowers have raised center of gravity. Slow down when turning and on hillsides.

6. Make certain that SMV sign, warning lights, and reflectors are clearly visible. Follow local traffic codes.

7. Never operate with Cutting Head or Folding Section raised if passersby, bystanders, or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Guards or mower structure.

8. Before dismounting, secure implement in transport position or lower to ground.
• Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent crushing by entanglement in rotating parts which could cause injury or death.
• Never mount or dismount a moving vehicle. Crushing from runover may cause serious injury or death.

5. TRANSPORT SAFELY, LOCK UP. 	6. USE SMV, LIGHTS, & REFLECTORS. 	7. DO NOT OPERATE WITH CUTTER OR WING RAISED 	8. DO NOT MOUNT OR DISMOUNT WHILE MOVING. 
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WARRANTY INFORMATION:

Read and understand the complete Warranty Statement found in this Manual. Fill out the Warranty Registration Form in full and return it within 30 Days. Make certain the Serial Number of the Machine is recorded on the Warranty Card and on the Warranty Form that you retain. The use of "will-fit" parts will void your warranty and can cause catastrophic failure with possible injury or death.

BOLT TORQUE

Mounting procedures for mowers will require a significant amount of bolt nut and washer installation.

Frame and structure mounting bolts should be installed using *Red Loctite*, and torqued to the dry values listed in the torque chart based on the bolt size and hardness.

Other structures such as pump mounting bolts should be installed with *Blue Loctite* and torqued to the dry values indicated in the chart.

Bolt tightness should be completed with and checked with a suitable torque wrench.

Torque checks should be completed throughout the life of the mower in accordance with the maintenance chart provided in this manual.

Loose bolts on a frame or in a casting may be a result of:

- Vibration from the mower due to imbalance of the mower blades
- Pulled threads due to over tightening
- Distortion of the hole due to under tightening during installation

Bolts broken or sheared in the mounting structure or tractor may be the result of:

- Improper alignment of the Mounting Plate or Structure such that it is not sitting flat on the mating surface
- Distortion of the bolt due to over-tightening
- Under tightening of the bolts

Check the bolt torque during installation and prior to delivery with a suitable torque wrench.

Proper Torque Values for Standard Bolts			Proper Torque Values for Metric Bolts				
Bolt Diameter			Bolt Diameter				
	Head Marking Three Lines Grade Five	Head Marking Six Lines Grade Eight		Head Marking 4.6	Head Marking 8.8 or 9.8	Head Marking 10.9	Head Marking 12.9
	Pound - Foot Value Dry	Pound - Foot Value Dry		Pound - Foot Value Dry	Pound - Foot Value Dry	Pound - Foot Value Dry	Pound - Foot Value Dry
1/4"	7	10	6mm	3	7	9	10
5/16"	15	22	8mm	6.2	16	23	24
3/8"	26	39	10mm	12	32	45	47
7/16"	42	60	12mm	21	55	79	81
1/2"	64	88	14mm	34	88	126	130
9/16"	100	134	16mm	53	137	196	202
5/8"	128	180	18mm	73	189	270	279
3/4"	227	320	20mm	104	267	382	394
7/8"	365	515	22mm	141	364	520	537
1"	547	772	24mm	179	461	660	680
			27mm	262	676	968	998
			30mm	355	917	1312	1353

To get Newton-Meters multiply pound-foot of torque by 1.356

PARTS SECTION

PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this section.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
2. The Purchase Order must include the name and address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are ordered.
3. The Purchase Order must clearly list the quantity of each part, the complete and correct part number (be sure to include all periods), and the basic name of the part.
4. The Manufacturer reserves the right to substitute parts where applicable.
5. Some parts are unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a Purchase Order.
6. The Manufacturer reserves the right to change prices without prior notice.



For maximum safety and to guarantee optimum product reliability, always use genuine Terrain King Parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death. Direct any questions regarding parts to:



Terrain King
1502 E WALNUT ST
SEGUIN TX 78155-5202
800-882-5756

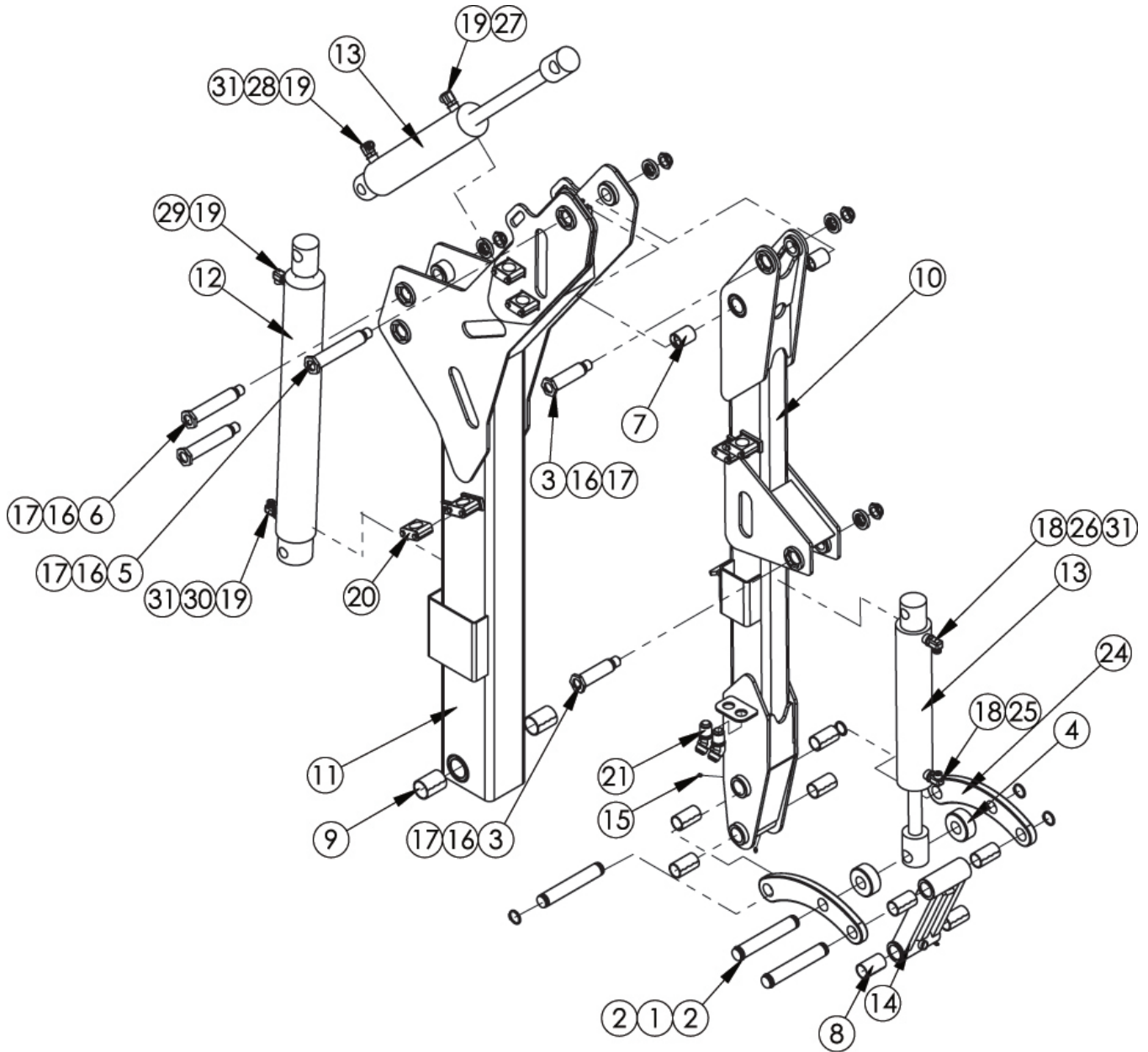


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21 FT BOOM ASSEMBLY - PN 31002993929



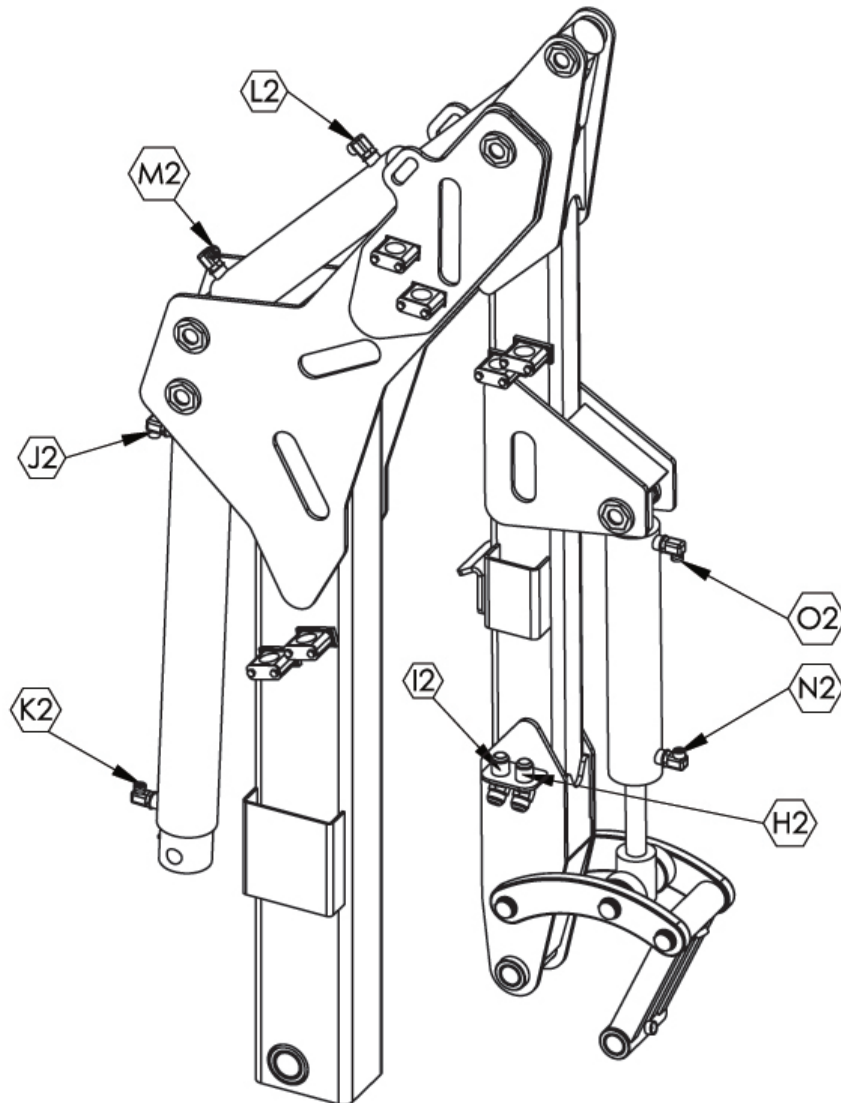
ITEM	PART NO.	QTY.	DESCRIPTION
----	31002993929	1	ASY, BOOM 21', KB21
1	30002994104	3	PIN, DBL SNAP RING, TILT LINK
2	30002994201	6	RETAINING RING, 1.5" SHAFT
3	30102994179	2	WLD MNT, PIN, TILT/DIPPER, SHORT
4	30802994238	2	TUBE, TILT STOP, KB21
5	30102994011	1	WLD MNT, PIN, 1.5"
6	30102994180	2	WLD MNT, PIN, TILT/DIPPER, LONG
7	30002990464	2	CONNEX BUSHING 1 3/4 X 1 1/2 X 2 3/8 GRVD
8	30002981424	8	BUSHING, CONNEX, 1-3/4X1-1/2X3

21 FT BOOM ASSEMBLY - PN 31002993929**Continued...**

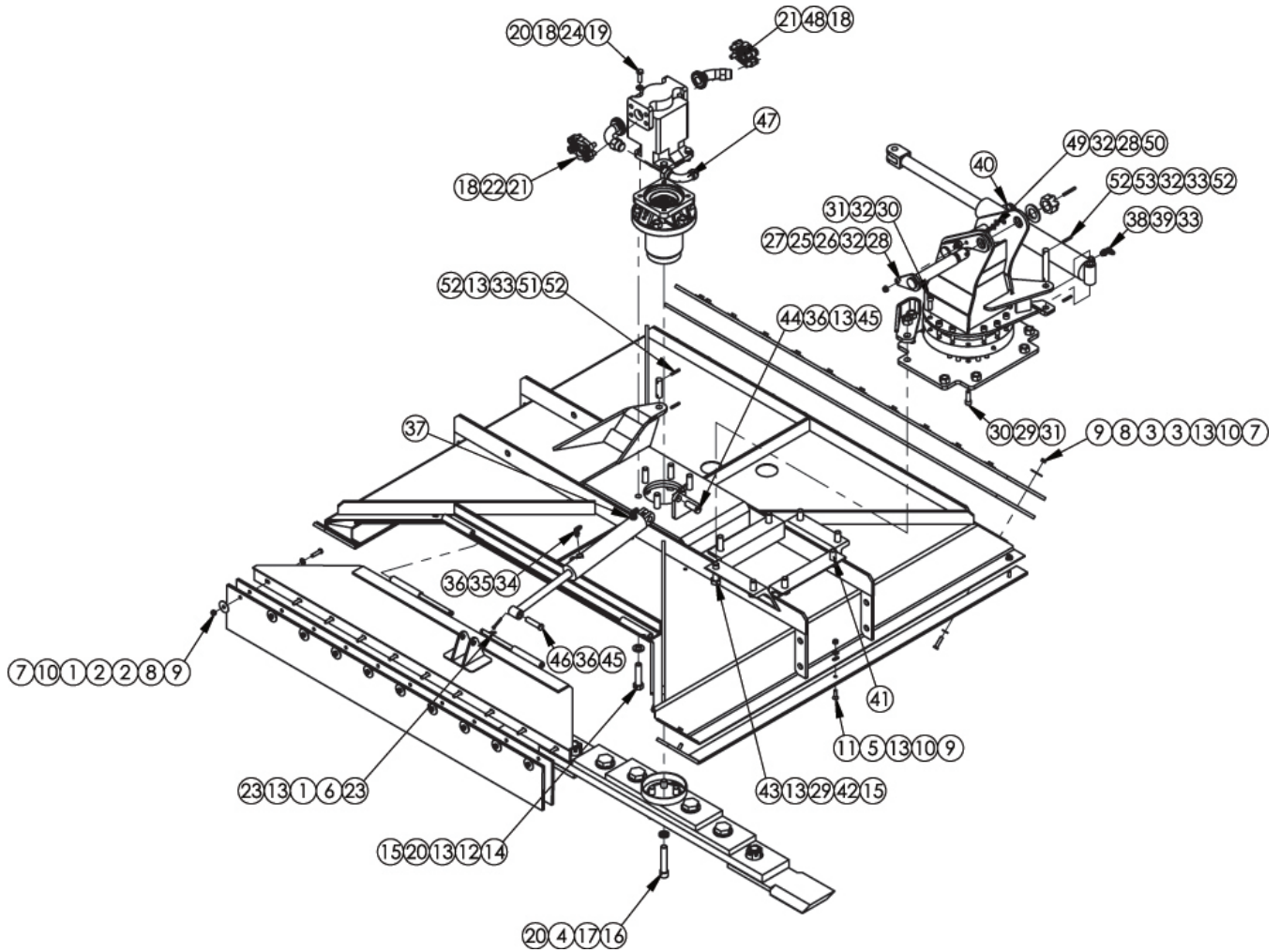
ITEM	PART NO.	QTY.	DESCRIPTION
9	30002981420	2	BUSHING, CONNEX, 2-1/4X2X3
10	30802993853	1	WLDMNT, DIPPER, KB21
11	30802993959	1	WLDMNT, LIFT, KB21
12	33002989574	1	CYL, 4.0Bx2.0Rx41.25S
13	33002989575	2	CYL, 3.5Bx1.5Rx16.00S
14	30802986074	1	WELDMNT, LINKAGE
15	30000752670	6	FITTING,GREASE-STR 1/4-28 UNF
16	30102994183	5	TUBE, 1-1/2" PIN, 1/2" SPACER
17	30000747900	5	NUT HEX THN LL 1-1/8 NF PL
18	33002962249	2	ADP, HYD ELBOW 8MB - 4MJ 90
19	330001654	4	ADP, HYD ELBOW 8MB - 6MJ 90
20	30002965059	6	CLAMP -1-1/2 TUBE SINGLE
21	33002919400	2	ADAPTER 16MJ - 16MJ 45 BULKHEAD
22	30002993927	1	PLATE, S/N BOOM, KB21
24	30802994231	2	PLATE, LINKAGE
25	30002968828	1	VINYL TAPE, RED, 1/2"
26	30002968829	1	VINYL TAPE, RED, 1/4"
27	30002968830	1	VINYL TAPE, BLUE, 1/2"
28	30002968831	1	VINYL TAPE, BLUE, 1/4"
29	30002968834	1	VINYL TAPE, ORANGE, 1/2"
30	30002968835	1	VINYL TAPE, ORANGE, 1/4"
31	30002991555	3	VINYL TAPE, WHITE, 1/4"

21 FOOT BOOM ASSEMBLY - HOUSE ROUTING

HOSE P/N	END 1	END 2	FUNCTION
33002994108	DWG 30002993932	H2 (16FJX)	BM MTR RETURN
33002994200	DWG 30002993932	I2 (16FJX)	BM MTR PRESSURE
33002989991	DWG 30002993932	J2 (6FJX)	BM LIFT ROD
33002989992	DWG 30002993932	K2 (6FJX)	BM LIFT BASE
33002989993	DWG 30002993932	L2 (6FJX)	BM DIP ROD
33002989994	DWG 30002993932	M2 (6FJX)	BM DIP BASE
33002994235	DWG 30002993932	N2 (4FJX)	BM TILT ROD
33002994236	DWG 30002993932	O2 (4FJX)	BM TILT BASE



60 INCH HEAD ASSEMBLY - SWIVEL - PN 30002990662



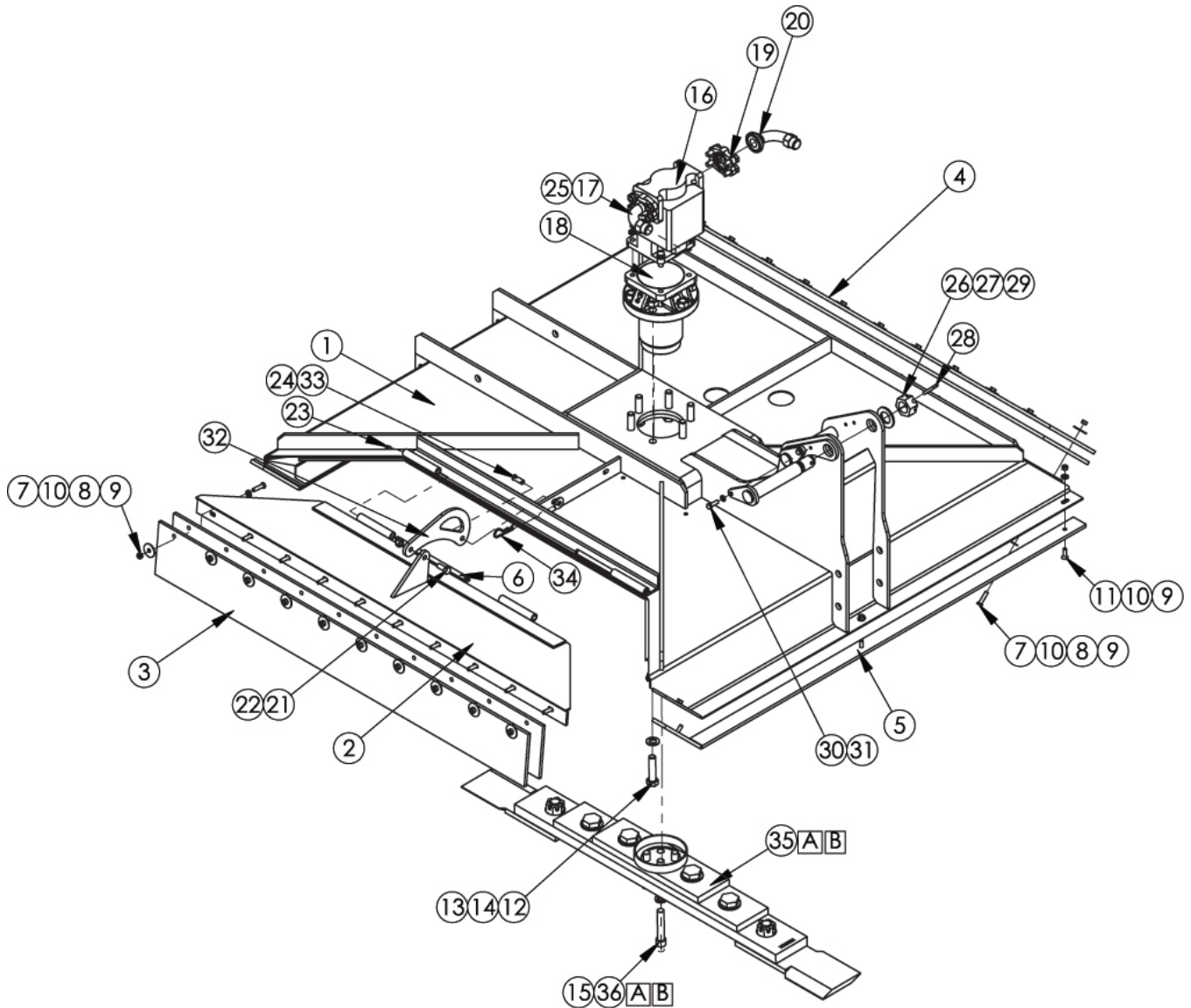
ITEM	PART NO.	QTY.	DESCRIPTION
1	30002990661	1	WLDMT, DOOR
2	30002989423	2	DOOR, FRONT, FLAP 3/8 THK
3	30002989422	2	REAR FLAP 10 X 62 X 3/8 THK
4	34802969230	1	ASY, BLADE BAR W/BLADES
5	30102989424	2	SKID SHOE
6	30002989437	2	ROD, DOOR HINGE PIN
7	30000023100	22	HHCS 3/8 -16UNC 1-1/2 PL5
8	30002035800	22	WASHER, 3/8", SPECIAL PLATED
9	30000015800	28	LOCKNUT TLM 3/8-NC PLC
10	30000011100	28	FLATWASHER STD 3/8 - PLATED
11	30000059700	6	FSCS 3/8 NC 1-1/4
12	3005312316	6	FLATWASHER 3/4 HARDENED
13	30002990660	1	WLDMT, DECK WITH SWIVEL
14	30002973438	6	HHCS 3/4 NC 3-1/4 PL8
15	30000037200	14	NUT,HEX TOPLOCK 3/4 NC GR.C PL

60 INCH HEAD ASSEMBLY - SWIVEL - PN 30002990662

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
16	30002964861	4	SHCS 3/4 NC 4 PL8
17	30000003901	4	LOCKWASHER, 3/4, HVY, PL
18	33002989904	1	MOTOR, HYD, GEAR, 5.73, HP SEAL
19	30002892000	4	HHCS, 1/2"-13 NC x 1-1/2" PL8
20	30002960553B	1	ASSY SPINDLE HOUSING SPLINED
21	30000749101	2	SPLIT FLANGE KIT #24
22	33000751842	1	ADP HYD ELBOW 16MJ-24FL90
23	30099338S	4	PIN ROLL 1/4 X 3/4
24	30000001300	4	HIGH ALLOY, L/W 1/2 YZ KG
25	30002971701	3	NUT SLOT 1-3/8 12NF PLB
26	30002971702	3	FLATWASHER 1-3/8 TYPE B NARROW
27	300165020	3	PIN, COTTER 5/16 X 2-1/2 PL
28	34802981757	2	WELDMENT, PIN, HITCH POST
29	30802981752	1	PLATE, HITCH POST BOTTOM, MAV
30	30002981820	28	SHCS 1/2 NC 1-1/2 PL8
31	30002981318	1	SLEW BEARING, 12 OD X 5.8 ID
32	34802985319	1	WELDMENT, HITCH POST
33	33002981315	1	CYLINDER, 2.5B X 1.5R X 14.38S
34	33002960018	2	ADP, HYD, ELBOW, 4MB-4MJ90
35	30002968836	1	VINYL TAPE, YELLOW, 1/2"
36	33002961480A	1	HYD CYLINDER 2BORE X 9-1/4
37	30002968837	1	VINYL TAPE, YELLOW, 1/4"
38	33003200762	2	ADP, HYD 6MB-4MJ 90
39	30002968833	1	VINYL TAPE, GREEN, 1/4"
40	30002968832	1	VINYL TAPE, GREEN, 1/2"
41	30002963645	6	HHCS 3/4 NC 1-3/4 PL8
42	34802984002	1	WLDMNT, STOP, SWIVEL
43	30002963646	2	HHCS 3/4 NC 2-1/2 PL8
44	30000651102	1	PIN, DRILLED
45	30000755153	2	PIN, COTTER 3/16 X 1-1/2 PL
46	30002976448	1	PIN, 5/8 X 2-1/2
47	33002958858	1	ADP TUBE ELBOW 16MJ-16FJX 90DG
48	33000749104	1	ADP HYD ELBOW 24FL-16MJ45
49	30002995907	2	FSCS 3/8-16 X 1-3/4 PL8
50	30002995908	2	NUT SPRLCK FLG 3/8-16 PL
51	30002995471	1	PIN, 3/4" X 1-7/8" U.L.
52	300002416	4	ROLL PIN 1/4 X 1-1/2 LG
53	30002995472	1	PIN, 3/4" X 4" U.L.

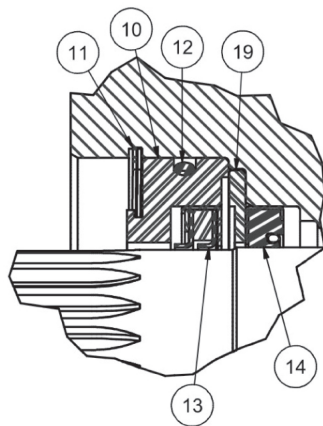
60 INCH HEAD ASSEMBLY - PN 34802989419



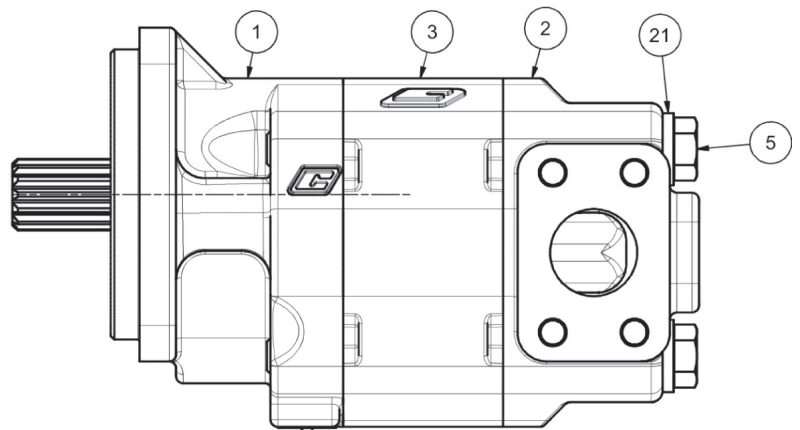
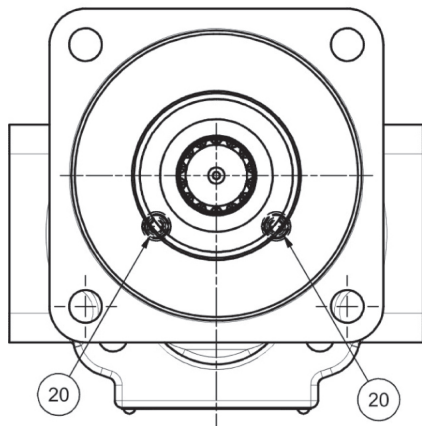
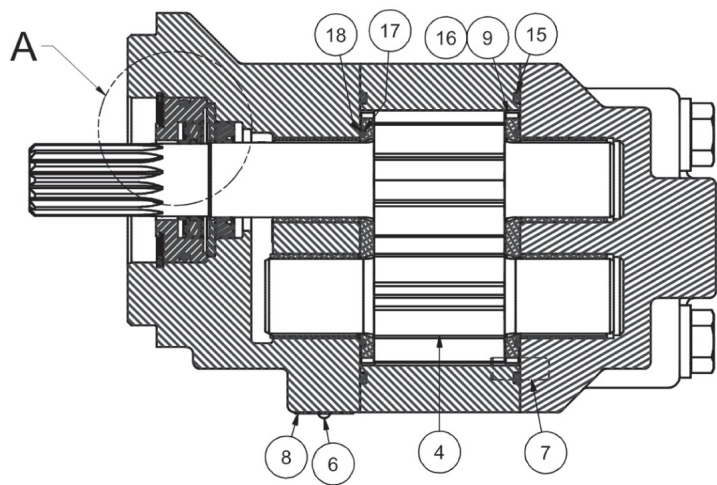
ITEM	PART NO.	QTY.	DESCRIPTION
1	30802989420	1	WLDMT, DECK WITH HITCH POST
2	30802989421	1	WLDMT, DOOR ASSEMBLY
3	30002989423	1	DOOR, FRONT, FLAP 3/8 THK
4	30002989422	2	REAR FLAP 10 X 62 X 3/8 THK
5	30102989424	2	SKID SHOE
6	30002989437	2	ROD, DOOR HINGE PIN
7	30000023100	22	HHCS 3/8 -16UNC 1-1/2 PL5
8	30002035800	22	WASHER, SPECIAL PLATED 3/8"
9	30000015800	28	LOCKNUT TLM 3/8-NC PLC
10	30000011100	28	FLATWASHER STD 3/8 - PLATED
11	30000059700	6	FSCS 3/8 NC 1-1/4
12	30002973438	6	HHCS 3/4 NC 3-1/4 PL8

60 INCH HEAD ASSEMBLY - PN 34802989419**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
13	30000037200	6	NUT,HEX TOPLOCK 3/4 NC GR.C PL
14	3005312316	6	FLATWASHER 3/4 HARDENED
15	30000003901	4	LOCKWASHER, 3/4, HVY, PL
16	33002989904	1	MOTOR,HYD, GEAR, 5.73, HP SEAL
17	30002892000	4	HHCS, 1/2"-13 NC x 1-1/2" PL8
18	30002960553B	1	ASSY SPINDLE HOUSING SPLINED
19	30000749101	2	SPLIT FLANGE KIT #24
20	33000751842	2	ADP HYD ELBOW 16MJ-24FL90
21	30002030700	1	HHCS 1/2 NC X 1 1/4 PL GR5
22	30000001800	1	LOCKNUT TLM 1/2 NC PLC
23	30099338S	4	PIN ROLL 1/4 X 3/4
24	30000002700	1	FLATWASHER 1/2 PL STD
25	30000001300	4	HIGH ALLOY, L/W 1/2 YZ KG
26	30002971701	2	NUT SLOT 1-3/8 12NF PLB
27	30002971702	2	FLATWASHER 1-3/8 TYPE B NARROW
28	300165020	2	PIN, COTTER 5/16 X 2-1/2 PL
29	30802981757	2	WELDMENT, PIN, HITCH POST
30	30000753642	2	HHCS 3/8 NC 1-1/4 PL5
31	30000012101	2	LOCKWASHER, 3/8, HVY, PL
32	30802989899	1	PLATE, DOOR LOCK
33	30002989439	1	PIN, CLEVIS 1/2" DIA X 1.375" LG
34	30037107B13	1	HAIRPIN, COTTER
35	34802969230	1	ASY, BLADE BAR W/BLADES
36	30002964861	4	SHCS 3/4 NC 4 PL8



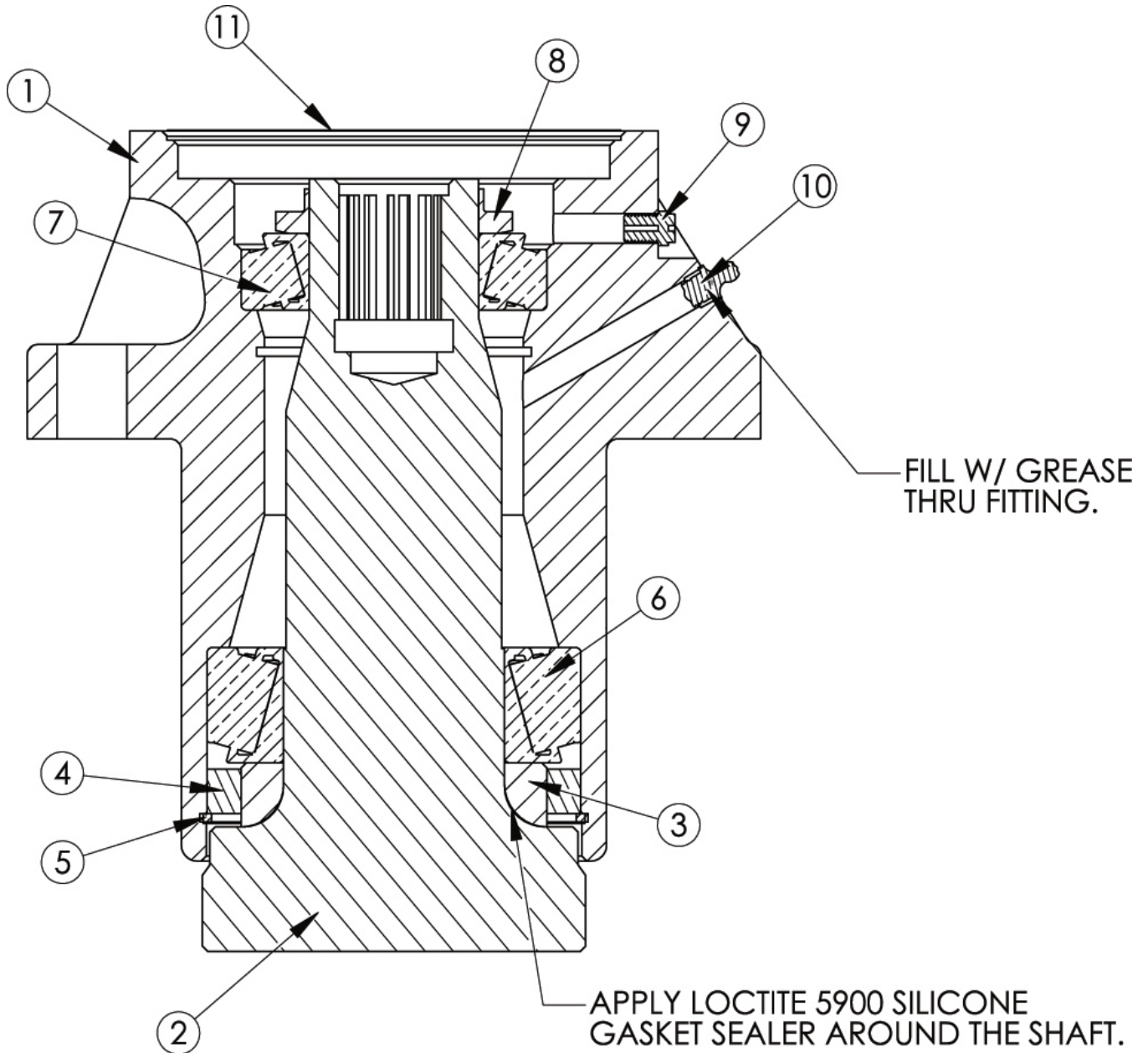
DETAIL "A"



60 INCH HEAD ASSEMBLY - MOTOR - PN 34002989904**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
----	34002989904	1	MOTOR, HYD, GEAR, 5.73, HP SEAL
1	30002961926	1	MOUNTING FLANGE
2	30002961927	1	PORTING FLANGE
3	30002962288	1	HOUSING GEAR
4	30002990072	1	SET, GEAR SHAFT, MOTOR 5.73
5	30002962289	4	HHCS 3/4 NC 6-3/4 PL8
6	30002987938	2	SCREW, DRIVE, FRT PUMP ASY
7	30002979953	4	DOWEL PIN, PUMP
9	30002979973	2	THRPL
10	30002961932	1	RETAINER SEAL (Available in Seal kit 33002990075)
11	30002979971	1	SNAP RING (Available in Seal kit 33002990075)
12	30002980321	1	O-RING (Available in Seal kit 33002990075)
13	30002979969	1	LIP SEAL (Available in Seal kit 33002990075)
14	30002990073	1	SEAL, HP, LIP (Available in Seal kit 33002990075)
	30002990073	1	SEAL, HP, LIP
15	30002979976	2	SEAL, SQ-R
16	30002979975	4	SEAL, SIDE
17	30002979974	2	SEAL, END
18	30002979972	1	SEAL, BACK-UP
19	30002990074	1	SEAL, HP, RETAINER
20	30002961931	2	CHECK ASSEMBLY
21	30002961917	4	WASHER
22	34002990075	1	KIT, HP, SEAL, 5.73 CID MOTOR

60 INCH HEAD ASSEMBLY - SPINDLE - PN 34002960553B



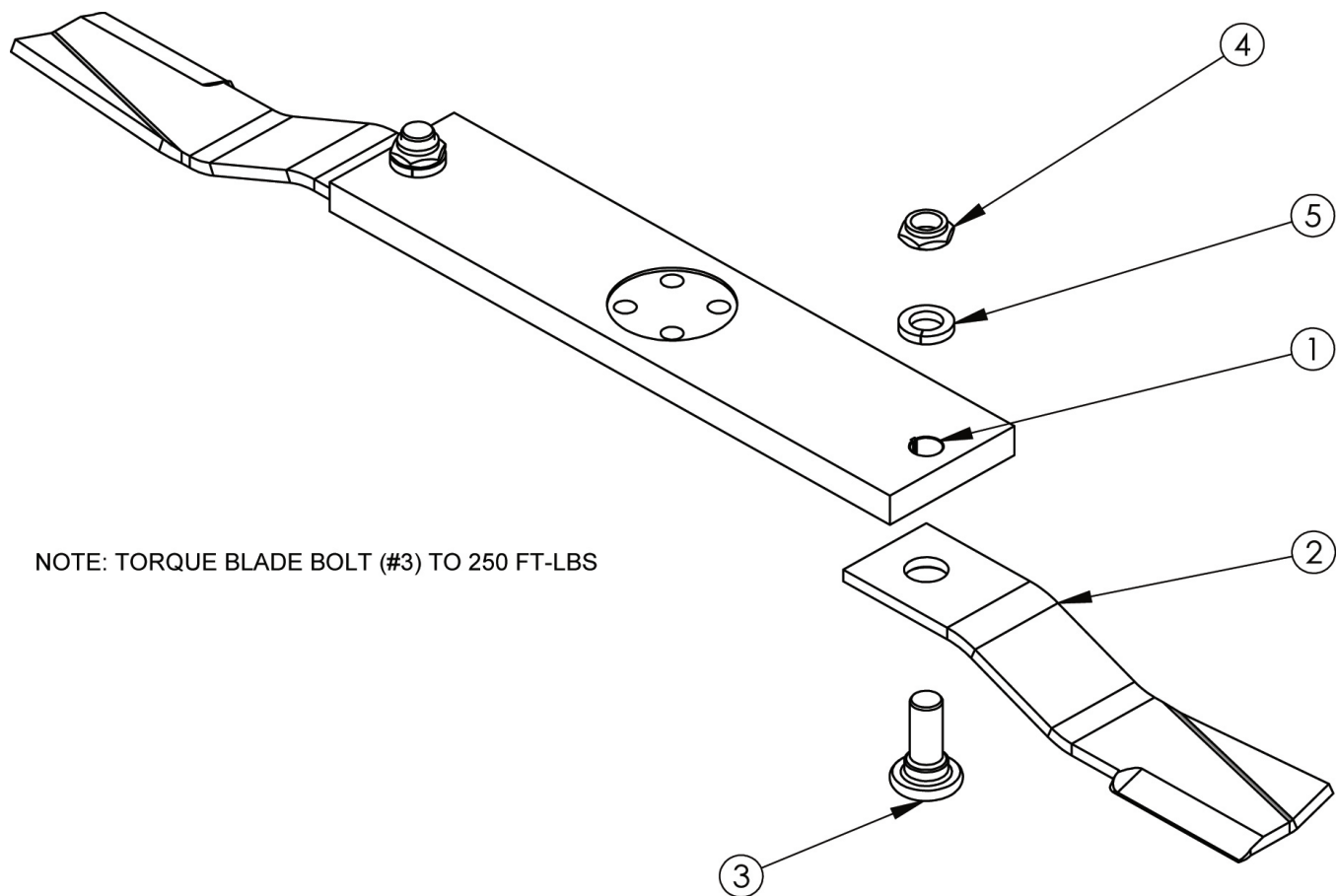
ITEM	PART NO.	QTY.	DESCRIPTION
0	34002960553B	1	ASY, SPINDLE HOUSING, SPLINED
1	30002963815	1	MACHINED SPINDLE HOUSING
2	30002960561	1	SPINDLE - MACHINED
3	30002960558	1	BEARING RING
4	30002960559	1	SEAL
5	30000754627	1	SNAP RING
6	30002960557	1	BEARING (BOTTOM)
7	30000769938	1	BEARING (TOP)
8	30002962030	1	LOCKNUT, SPINDLE BEARING

60 INCH HEAD ASSEMBLY - SPINDLE - PN 34002960553B

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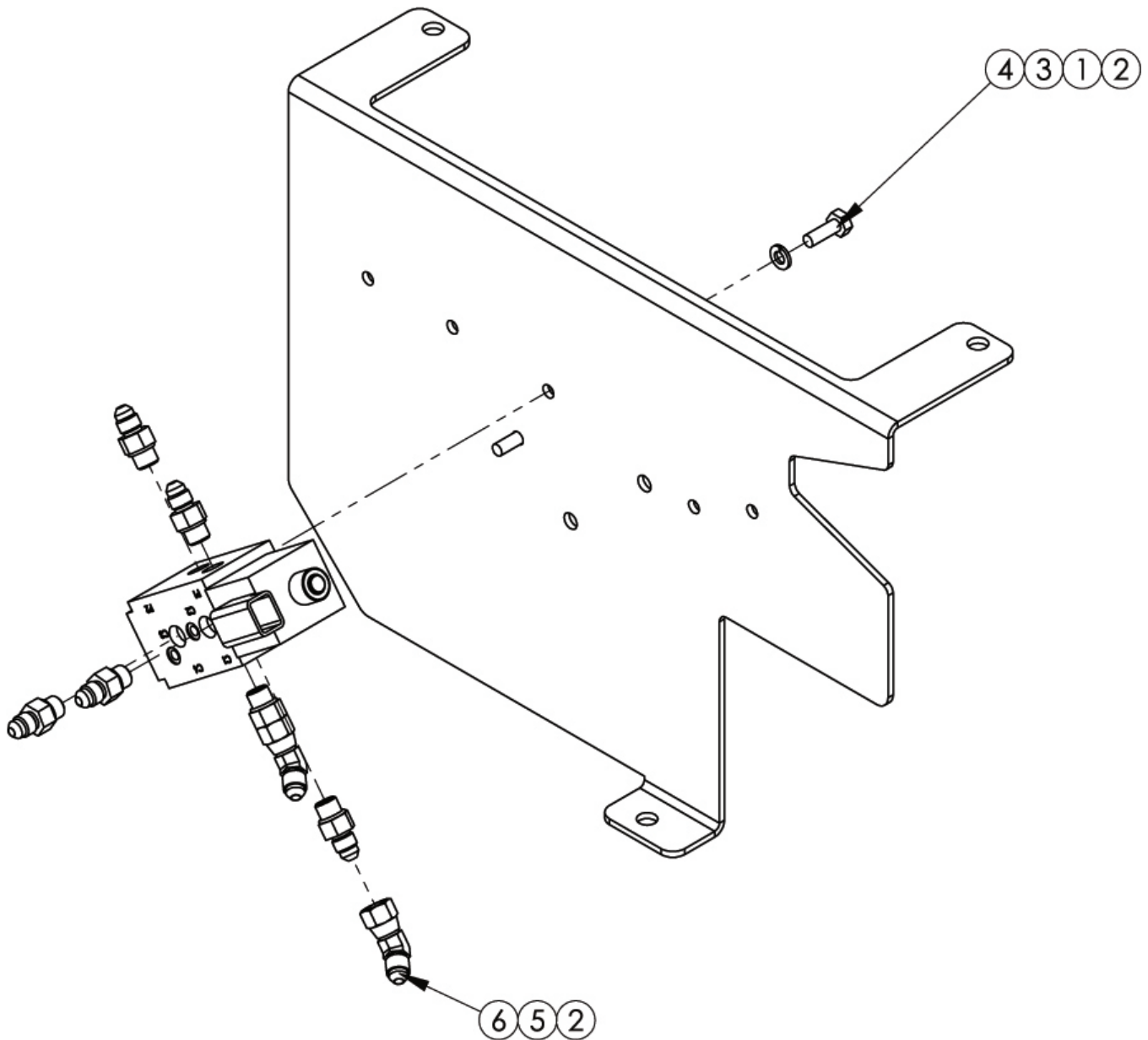
ITEM	PART NO.	QTY.	DESCRIPTION
9	30002959018	1	GREASE RELIEF FITTING 1-5LBS
10	30000003500	1	FITTING,GREASE 1/8 MP STRAIGHT
11	30002963060	1	COVER, SPINDLE

60 INCH HEAD ASSEMBLY - BLADEBAR - PN 30102954200



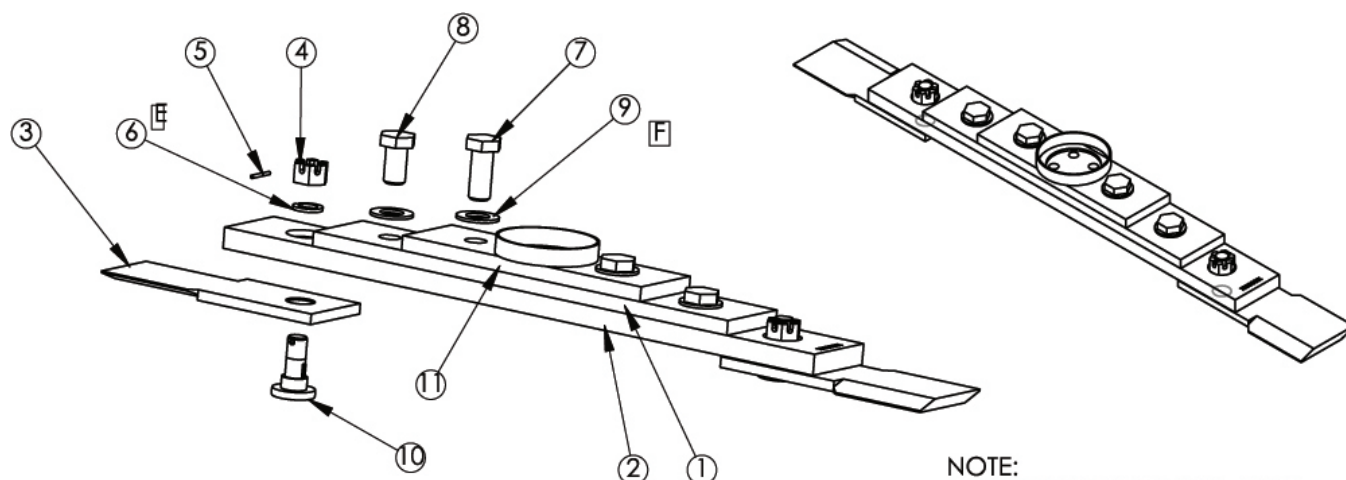
ITEM	PART NO.	QTY.	DESCRIPTION
1	30000754093	1	BLADE BAR, CTR SEC.
2	34102977557	1	BLADE SET
3	30000752827	2	BOLT, BLADE
4	30000747900	2	NUT HEX THN LL 1-1/8 NF PL
5	30000748000	2	LOCKWASHER 1 1/8 HEAVY

ASY, HEAD SWIVEL KIT P/N 30002997138

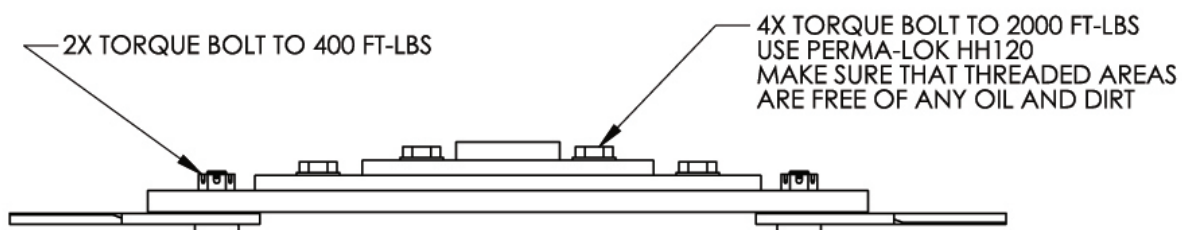
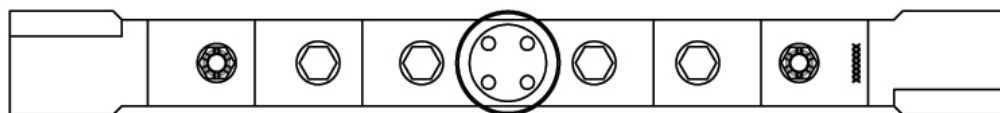


ITEM	PART NO.	QTY.	DESCRIPTION
1	30002987703	1	PLATE, AUX VALVE
2	30002997759	1	VALVE SOL DIVERTER DEUTSCH
3	30000017000	2	HIGH ALLOY, L/W 1/4 YZ
4	30000021400	2	BOLT, HHCS 1/4" NC X 3/4"
5	33002962181	6	ADP HYD STGHT 4MB-4MJ
6	33002976532	4	ADP HYD STGHT 4MJ-4FJX45DEG

ASY, BLADE BAR W/ BLADES



NOTE:
BEFORE ASSEMBLING BLADES,
BLADE BOLTS, NUTS @ ROLL PIN,
STATICALLY BALANCE LEAF
ASSEMBLY TO WITHIN 1/2 OZ.



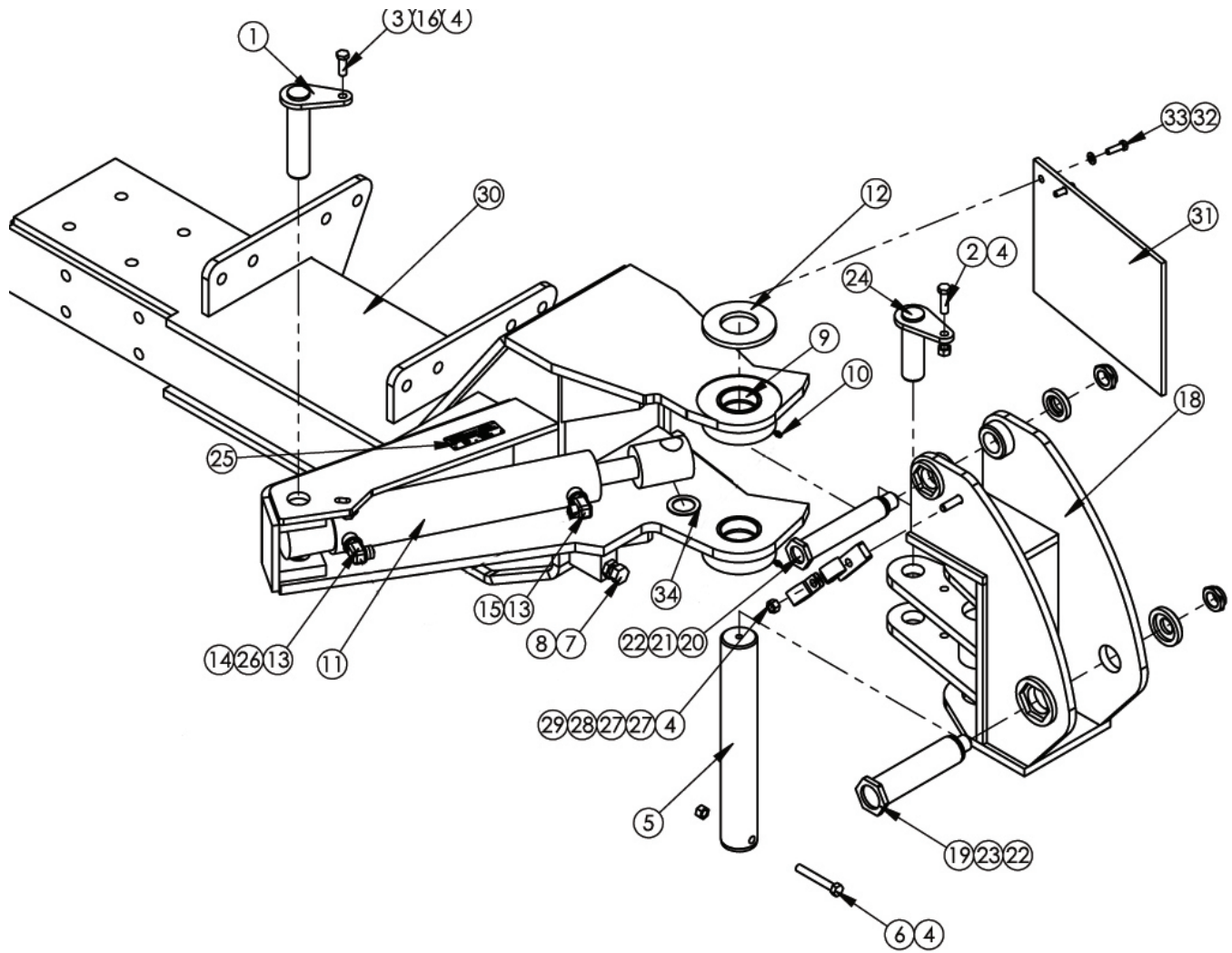
ITEM	PART NO.	QTY.	DESCRIPTION
1	30802969232	1	LEAF, BLADE BAR-MIDDLE
2	30802969233	1	BLADE BAR LEAF-BOTTOM
3	30802726900B	2	BLADE, FLAT, CW ROT
4	30000020900	2	NUT, SLOTTED, HVY, 1-1/8NF PL GR5
5	30000023200	2	PIN, ROLL, 3/16X1-3/4
6	30002957089	2	HEAVY, L/W, 1-1/8 YZ PLATED
7	30002969235	2	HHCS, 1-1/4X3 PL GR8
8	30002969236	2	HHCS, 1-1/4X2-1/4 PL GR8
9	30015C2000	4	WASHER, 1.375 X 2.50 X .165, HARDENED
10	30002782900	2	BOLT, BLADE

ASY, BLADE BAR W/ BLADES

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
11	30802971387	1	WLDMT, TOP BLADE BAR

FRAME ASY, KB21 P/N 35002993922

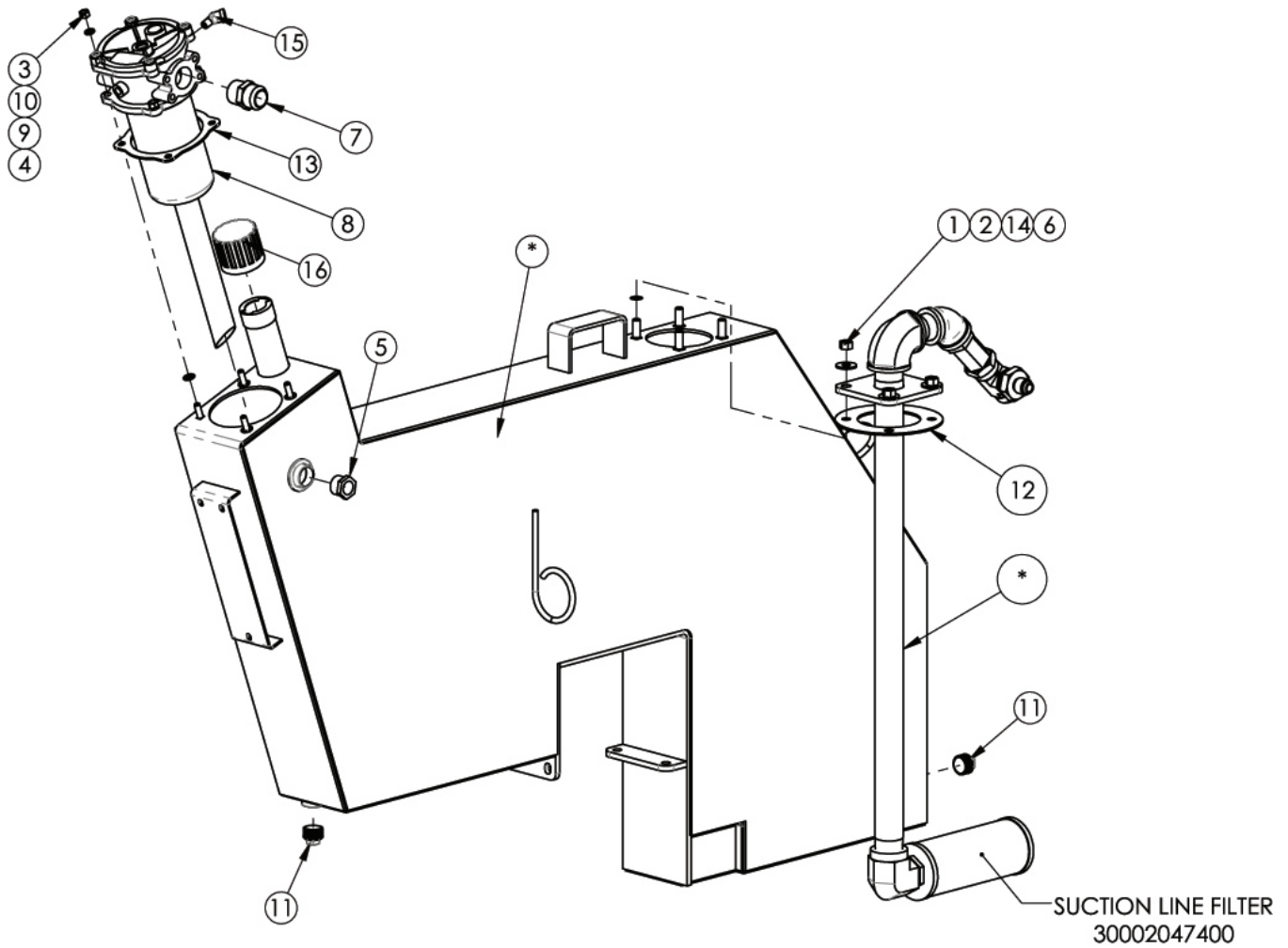


ITEM	PART NO.	QTY.	DESCRIPTION
1	30102993923	1	MACH, WLDMNT, FRAME, KB21
2	30102989386	1	WLDMNT, PIN 1-1/2 W/THUMB
3	30002891800	1	HHCS 1/2 NC 1-3/4 PL8
4	30002892000	1	HHCS, 1/2"-13 NC x 1-1/2" PL8
5	300001800	4	LOCKNUT TLM 1/2 NC PLB
6	30002994171	1	PIN, KINGPIN SHORT FATIGUE PROOF
7	30000752716	1	BOLT, HHCS 1/2" X 3-1/2" LG
8	30002023900	1	3/4 JAM NUT
9	30002989883	2	BUSHING, HDND 3.0 X 2.5 X 2.0
10	30000752670	2	FITTING,GREASE-STR 1/4-28 UNF
11	30002990369	1	WASHER, THRUST
12	30002962249	2	ADP, HYD ELBOW 8MB - 4MJ 90
13	30002968833	1	VINYL TAPE, GREEN, 1/4"
14	30002968832	1	VINYL TAPE, GREEN, 1/2"

FRAME ASY, KB21 P/N 35002993922**Continued...**

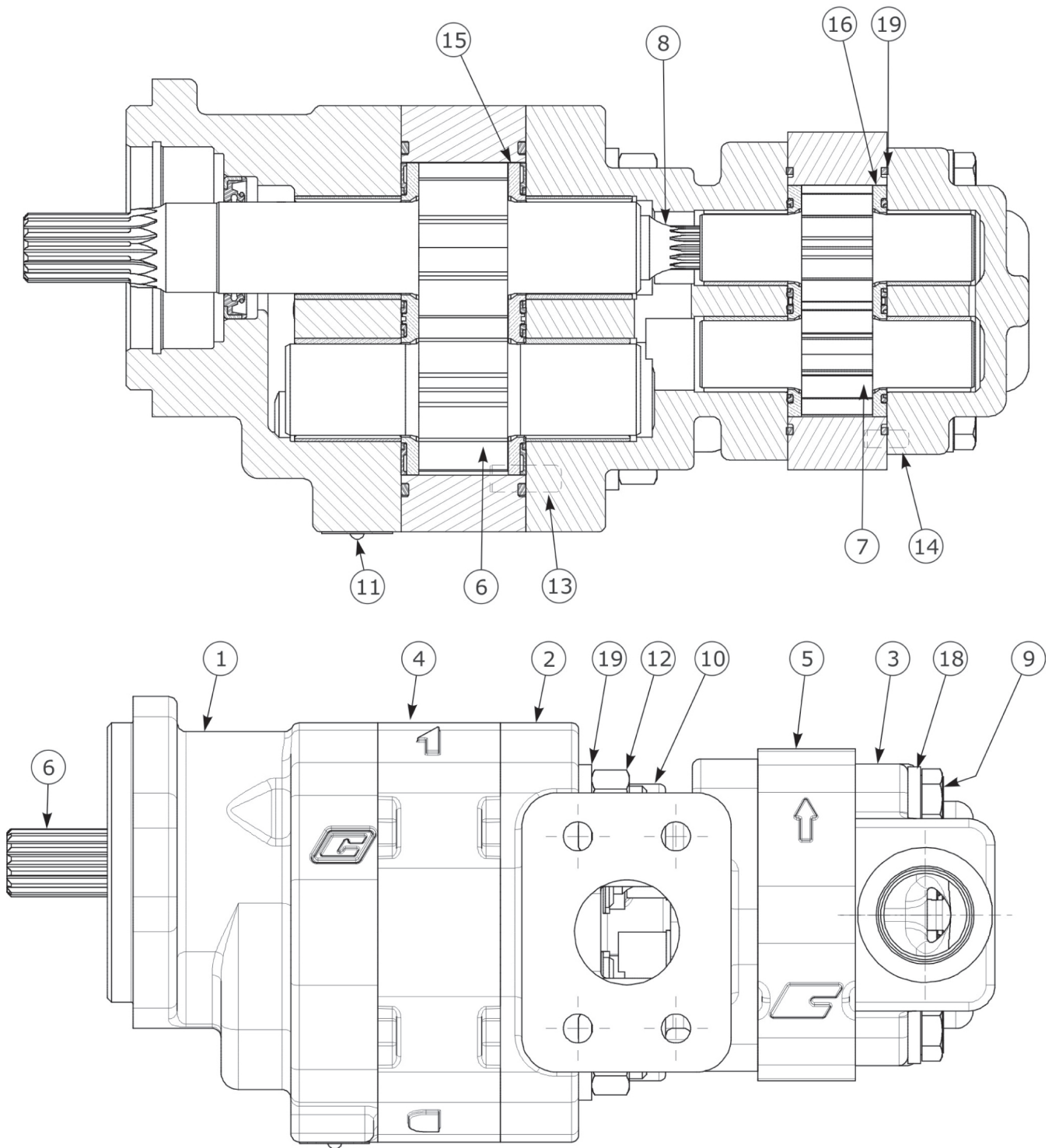
ITEM	PART NO.	QTY.	DESCRIPTION
15	30000002700	1	FLATWASHER 1/2 PL STD
16	3003710151	4	METAL TACK
17	30102993926	1	MACH, WLDMNT, TURNING ARM
18	30102994016	1	WLDMNT, PIN, TURN ARM/LIFT
19	30002994183	1	TUBE, 1-1/2" PIN, 1/2" SPACER
20	30000747900	2	NUT HEX THN LL 1-1/8 NF PL
21	30002994184	1	TUBE, 2" PIN, 1/2" SPACER
22	30102989853	1	WLDMNT, PIN 1-1/2 W/THUMB
23	30002994325	2	CLAMP, WIRE HARNESS, 1.5"
24	30002994326	1	PLATE, SPACER, 1/2"
25	30002027400	1	HHCS 1/2 NC X 2 1/4 PL5
26	30102994011	1	WLDMNT, PIN, 1.5"
27	30102993928	1	PLATE, S/N, KB21 FRAME, AI
28	30002991555	1	VINYL TAPE, WHITE, 1/4"
29	30002994500	1	SWING GUARD, RUBBER
30	30002977280	2	BOLT, HHCS 3/8 NC 1-1/4 PL8
31	33002989576	1	CYL, 3.0Bx1.5Rx14.00S
32	30002998343	1	BUSHING, 1-1/2 ID, 14GA PL
33	30000748823	1	HHCS 1/2-13UNC 1-1/2 GR.5 PL
34	30002963646	1	HHCS 3/4 NC 2-1/2 PL8
35	30000011100	2	FLATWASHER STD 3/8 - PLATED
36	30002999407	1	TUBE, SPACER, SWING FRAME
37	33002999408	1	PLATE, SPACER, SWING FRAME

UF TANK PN 33002996954



ITEM	PART NO.	QTY.	DESCRIPTION
1	30000001800	4	LOCKNUT TLM 1/2 NC PLC
2	30000002700	4	FLATWASHER 1/2 PL STD
3	30000015800	4	LOCKNUT TLM 3/8-NC PLC
4	300000644	4	CARB 3/8 NC 1-1/4 PL5
5	30002049700	1	SIGHT, GAUGE 16MP
6	30002886900	4	CARB 1/2 NC 1-1/2 PL5
7	30002960809	1	ADP HYD STGHT 20MP-20MJ
8	33802961000	1	FILTER ASSY-RETURN,IN TANK
10	33002962864	4	WASHER,SEALING 3/8
11	33002963659	2	PLUG,1 MAGNETIC
12	30002963661	1	GASKET,SUCTION PLATE, FIBER
13	33002963662	1	GASKET,FILTER ASY,FIBER
14	30063161900	4	SPRING NUT 1/2
15	30002963328	1	PIPE ELBOW 4MP-4FP 45
16	33002980215	1	CAP, FILLER/BREATHER, 3PSI

PUMP ASSEMBLY - PN 33002988912

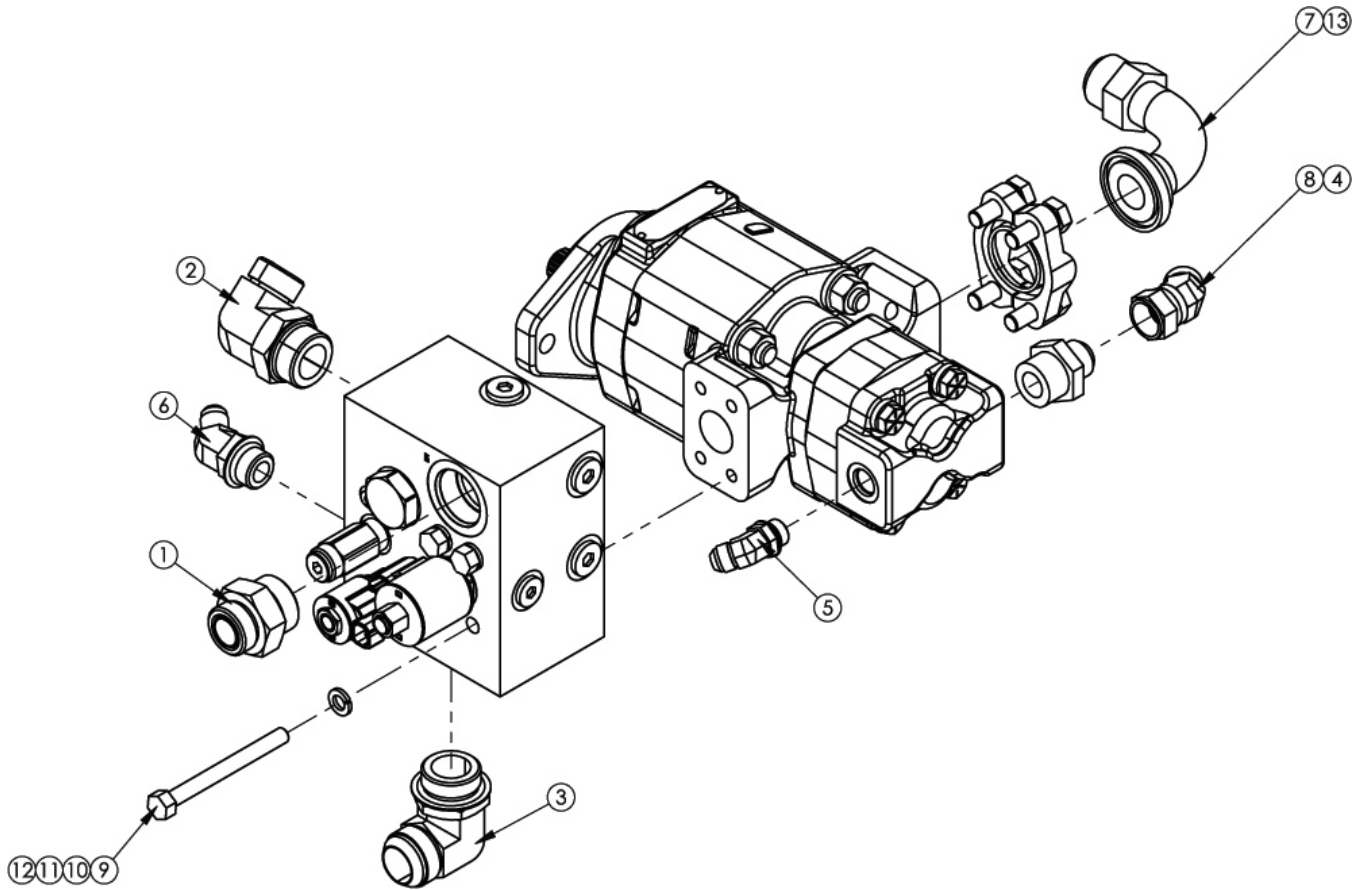


PUMP ASSEMBLY - PN 33002988912

Continued...

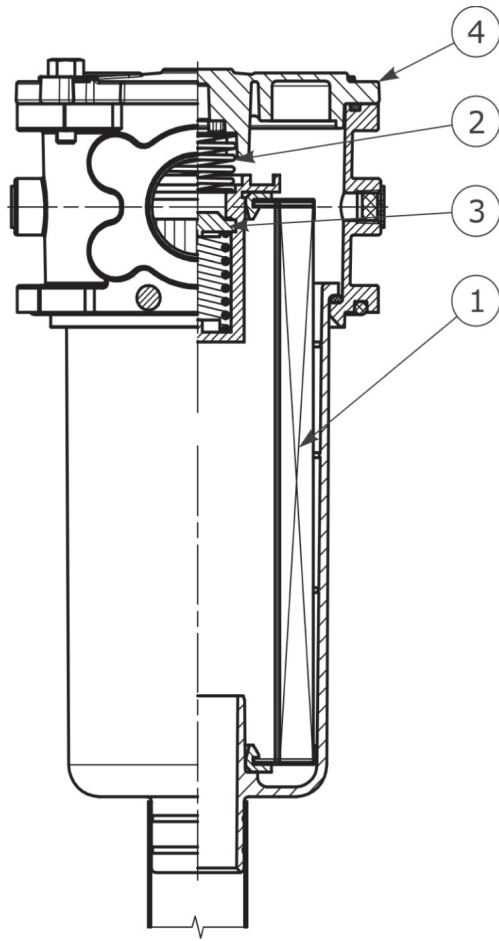
ITEM	PART NO.	QTY.	DESCRIPTION
-----	33002988912	1	PUMP,DUAL SUCTION 3.19&1.24 CU
1	30002961913	1	MOUNTING FLANGE
2	30002989459	1	HOUSING, CONNECTION, DUAL PUMP
3	30002989338	1	COVER, FLANGE, DUAL SUC PUMP
4	30002987934	1	HOUSING, GEAR, FRT PUMP ASY
5	33002989337	1	GEAR HOUSING, DUAL SUC PUMP
6	33002987936	1	SET, GEAR SHAFT, FRT PUMP ASY
7	33002989339	1	SET, GEAR, DUAL SUC PUMP
8	33002989401	1	SHAFT, CONNECT, DUAL SUC PUMP
9	30002989402	4	SCREW, CAP, DUAL SUC PUMP
10	33002989404	4	STUD, FRT PUMP ASY,3.91&1.24CU
11	30002987938	2	SCREW, DRIVE, FRT PUMP ASY
12	30002962190	4	NUT 5/8 NC PLB
13	30002979953	4	DOWEL PIN, PUMP, HYDRO 15/10
14	30002989457	4	DOWEL, PIN, DUAL PUMP, REAR
15	30002987939	2	THRPL, FRT PUMP ASY
16	30002989458	2	THRPL, DUAL PUMP, REAR
17	30002961920	1	PLUG
18	30002964944	4	WASHER
19	30002961917	4	WASHER
-----	30002989403	1	KIT, SEAL, DUAL SUC PUMP

PUMP ASSEMBLY, DUAL, PN 33002996875



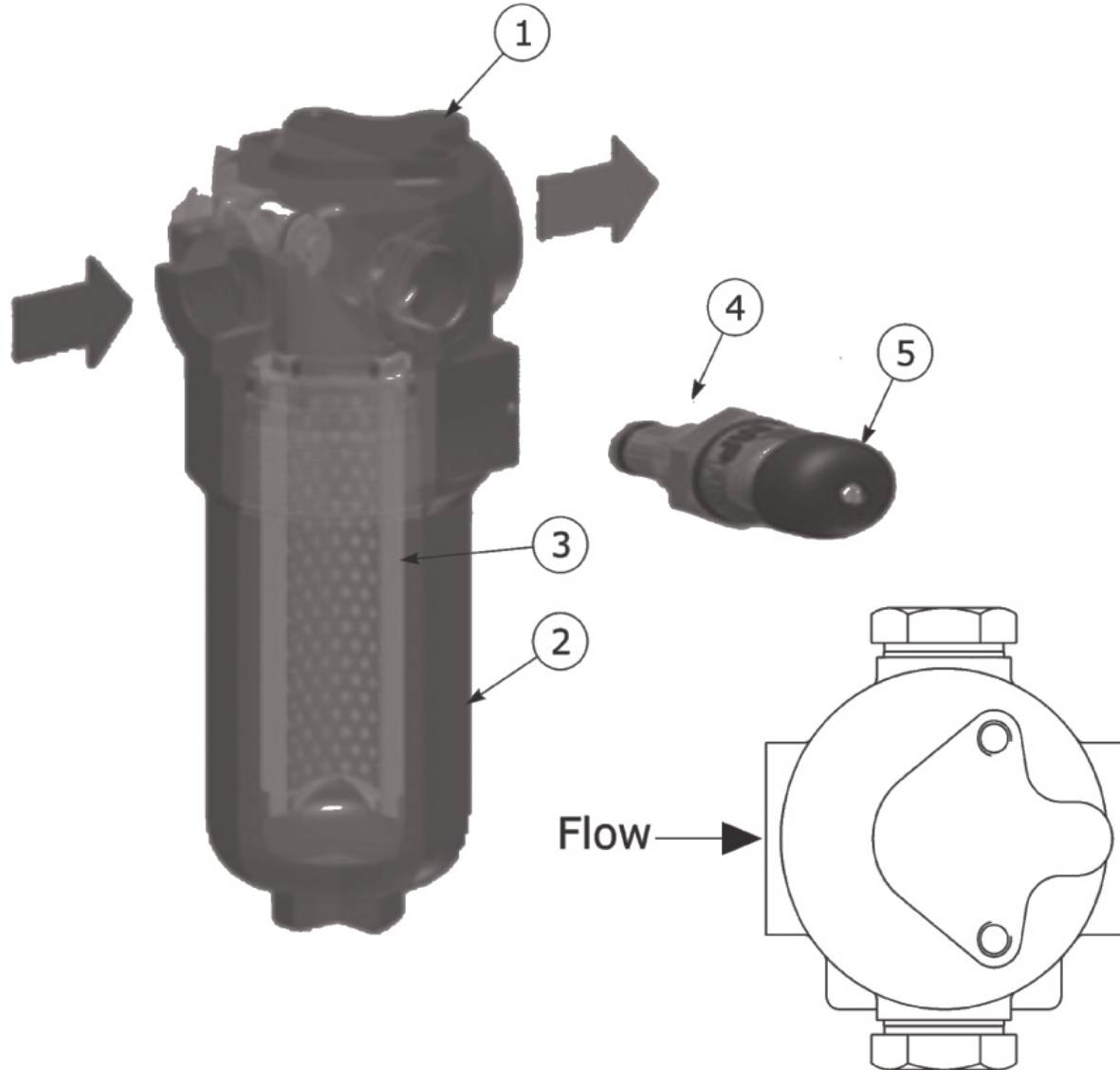
ITEM	PART NO.	QTY.	DESCRIPTION
1	33002961006	1	ADP HYD STGHT 20MB-16MJ
2	33003200298	1	ADP HYD ELBOW 20MB - 16MJ
3	33002961098	1	ADP HYD ELBOW 20MB -20MJ 90
4	33002958316	1	ADP, HYD 16MB - 12MJ ST
5	33002962214	1	ADP HYD ELBOW 8MB - 8MJ45
6	33002975187	1	12MB-8MJx45
7	33002961028	1	ADP HYD ELBOW 24FL - 20MJ - 90
8	33002984905	1	ADP HYD ELBOW 12MJ-12FJX45
9	33002970451	4	HHCS 7/16 NC 4-1/2 PL8
10	33000022200	4	HIGH ALLOY, L/W 7/16 YZ
11	33002996810	1	ASY, HYD MANIFOLD, HYDRAFORCE
12	33002988912	1	PUMP,DUAL SUCTION 3.19&1.24 CU
13	33000749101	1	SPLIT FLANGE KIT 1-1/2

FILTER ASSEMBLY - PN 33002961000



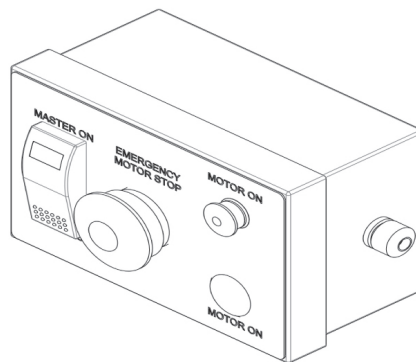
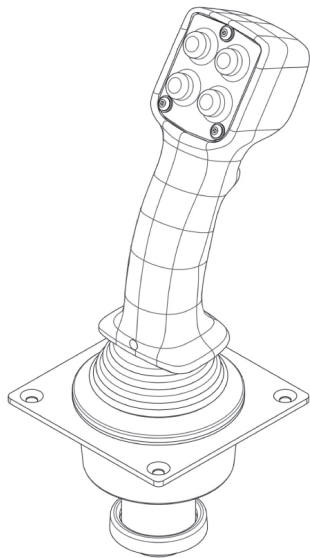
ITEM	PART NO.	QTY.	DESCRIPTION
-----	33002961000	1	FILTER ASY
1	33002961001	1	FILTER ELEMENT
2	33002972678	1	SPRING FILTER CARTRIDGE
3	33002973782	1	VALVE FILTER BYPASS FOR MPF184
4	30002978349	1	FILTER COVER
-----	30002978354	1	SEAL KIT
	30002961452	1	O-RING

FILTER ASSY, PRESSURE VISUAL INDICATOR PN 33002985280



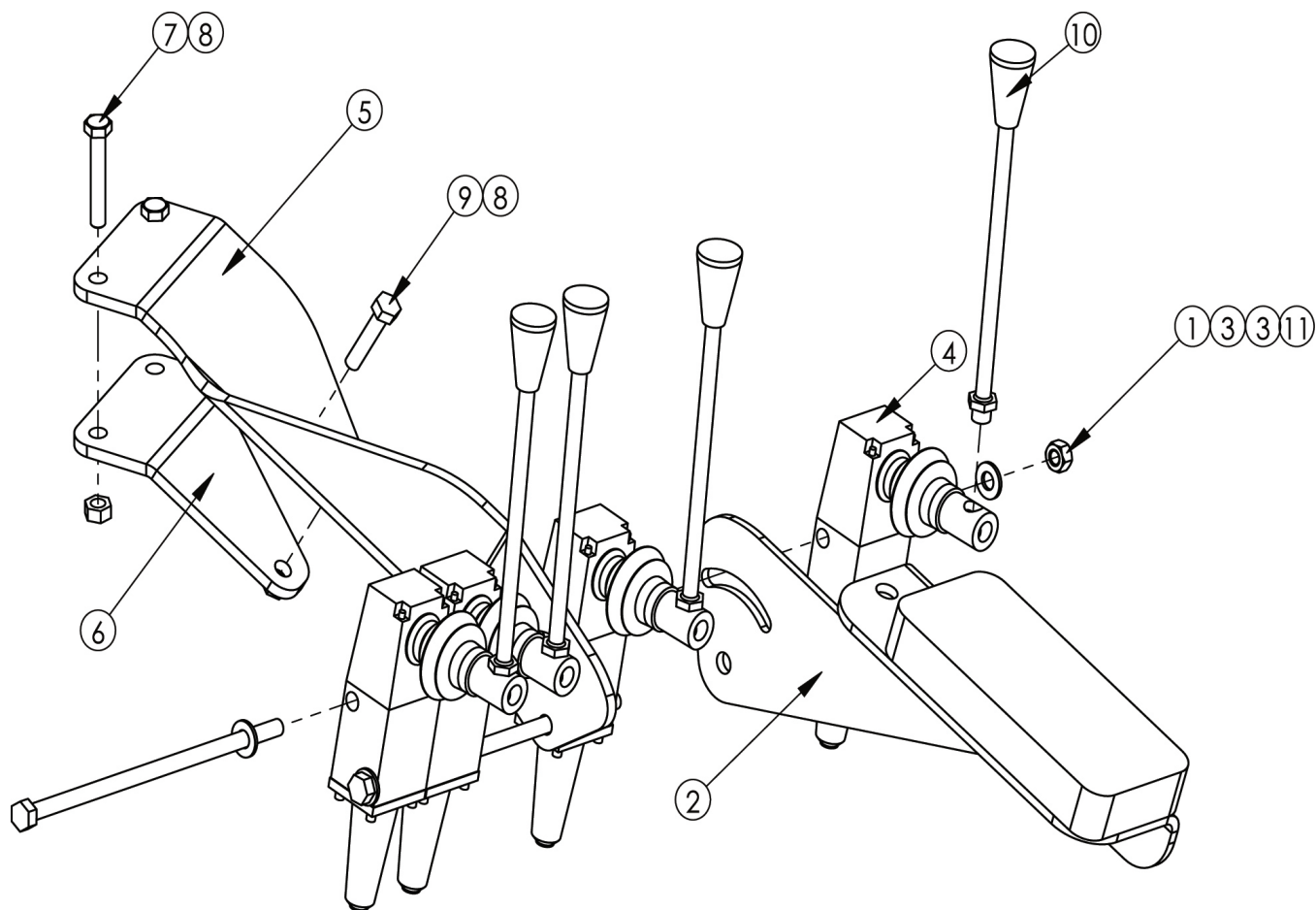
ITEM	PART NO.	QTY.	DESCRIPTION
-----	33002985280	1	FILTER ASY,PRESSURE,VISU IND
1	30002985281	1	FILTER ASY, HEAD
2	30002985282	1	BOWL, FILTER ASY
3	30002985283	1	FILTER, ELEMENT
4	30002985285	1	INDICATOR, VISUAL
-----	30002986516	1	SEAL KIT W/ O-RING

JOYSTICK AND JOYSTICK CONTROLLER BOX

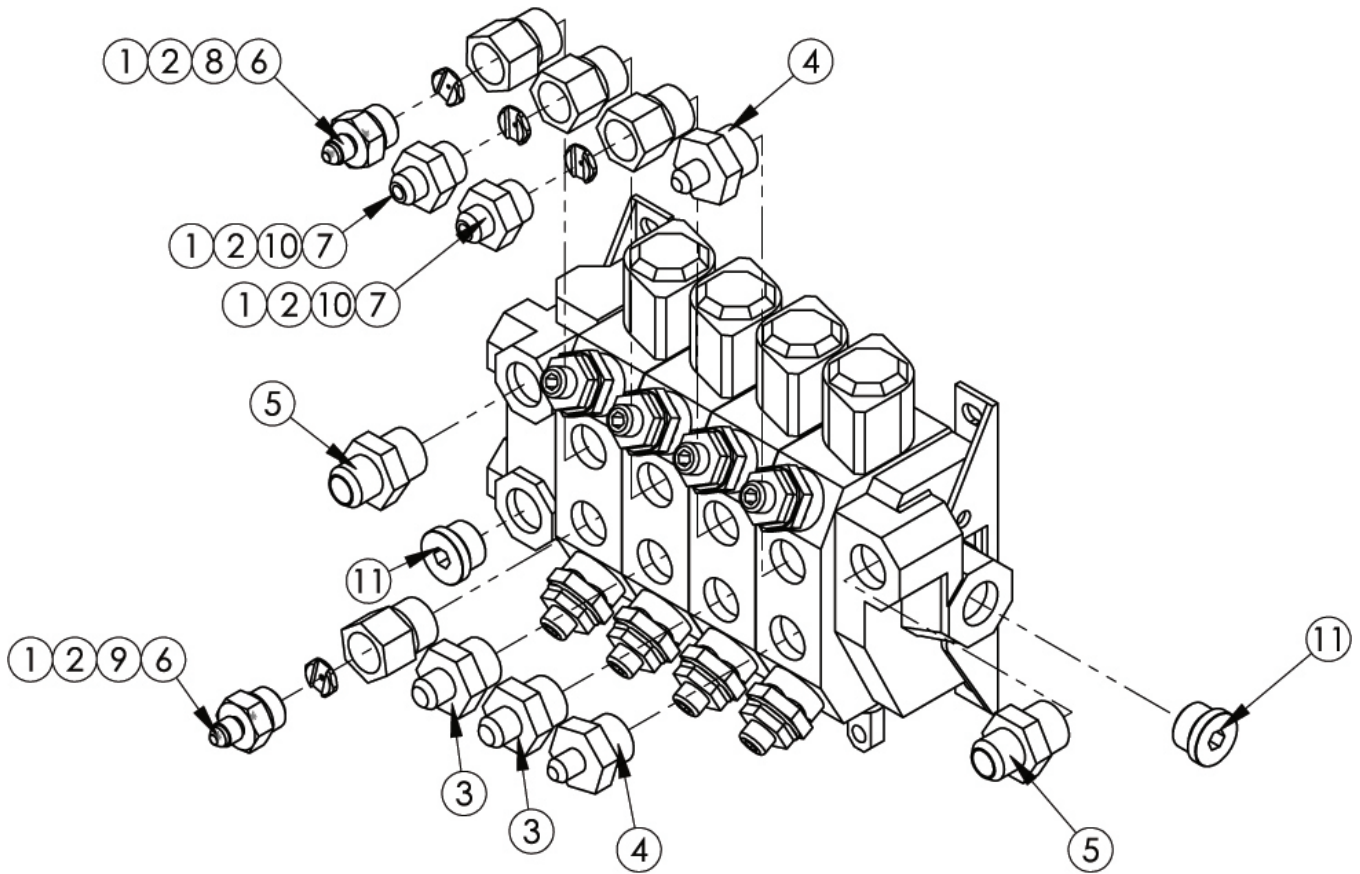


ITEM	PART NO.	QTY.	DESCRIPTION
----	32002989868	1	CONTROLLER, 2/AXIS 4 BUTTON
	32002989866	1	ASY, CONTROL BOX W/MASTER

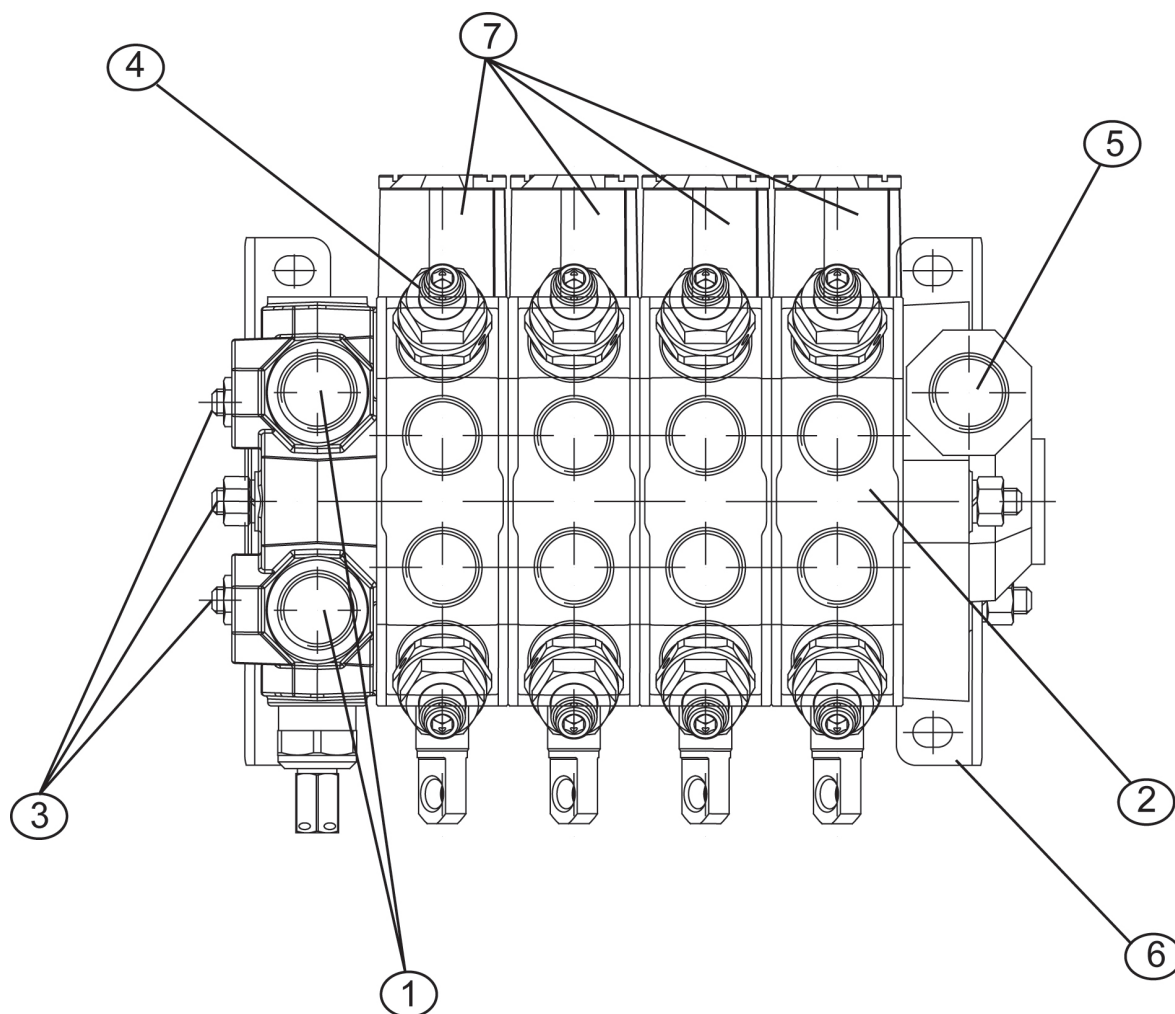
VALVE MANUAL CONTROLS PN 32002994564



ITEM	PART NO.	QTY.	DESCRIPTION
1	30000021800	2	NUT HEX 5/16 NC PL
2	30002994637	1	ASY, ADJUSTABLE ARM REST BAR
3	30000023500	4	FLATWASHER 5/16 PL
4	30002990364	4	CONTROLLER, MANUAL, VALVE
5	30102994635	4	PLATE, CONTROL STAND, BUCHER VLV
6	30102989221	1	PLATE, CNTRL. STAND BTM
7	30000016200	2	HHCS 5/16 NC 2 PL5
8	30000750940	3	LOCKNUT TLM 5/16 NC PLB
9	30002766400	1	BOLT, HHCS 5/16" X 1-1/2" LG
10	30002990365	4	LEVER, 185MM, MANUAL VALVE
11	30002964686	2	BOLT, HHCS 5/16" X 7-1/2" LG



ITEM	PART NO.	QTY.	DESCRIPTION
1	33002989927	1	ASY, VALVE, MANUAL, 4-SECTION
2	33002972113	4	ADP HYD STGHT 10MB-8FB
3	33002972177	2	ADP HYD STGHT 10MB-6MJ
4	33002972179	2	ADP HYD STGHT 10MB-4MJ
5	33002042300	2	ADP, HYD ST 10MB - 8MJ
6	33002822300	2	ADP HYD STGHT 8MB-4MJ
7	33002968850	2	ADP HYD STGHT 8MB-6MJ
8	33002972209	1	ORIFICE, .063 ONE-WAY RESTRCTR
9	33002988583	1	ORIFICE, .094 RSTRCTR 8ORB
10	33002972210	2	ORIFICE, .070 ONE-WAY RESTRCTR
11	33002972768	2	ADP HYD PLUG 10MB



ITEM	PART NO.	QTY.	DESCRIPTION
0	33802989927	1	ASY, VALVE, MANUAL, 4-SECTION,
1	33002995034	2	COVER, INLET
2	33002995035	4	VALVE, SECTION
3	33002995036	3	ROD, TIE
4	33002995037	1	VALVE, RELIEF, 4 SEC
5	33002995038	1	COVER, OUTLET
6	33002995039	2	BRACKET, SUPPORT
7	33002995040	4	POSITIONER

COMMON COMPONENT BOX JOYSTICK - 30002993934

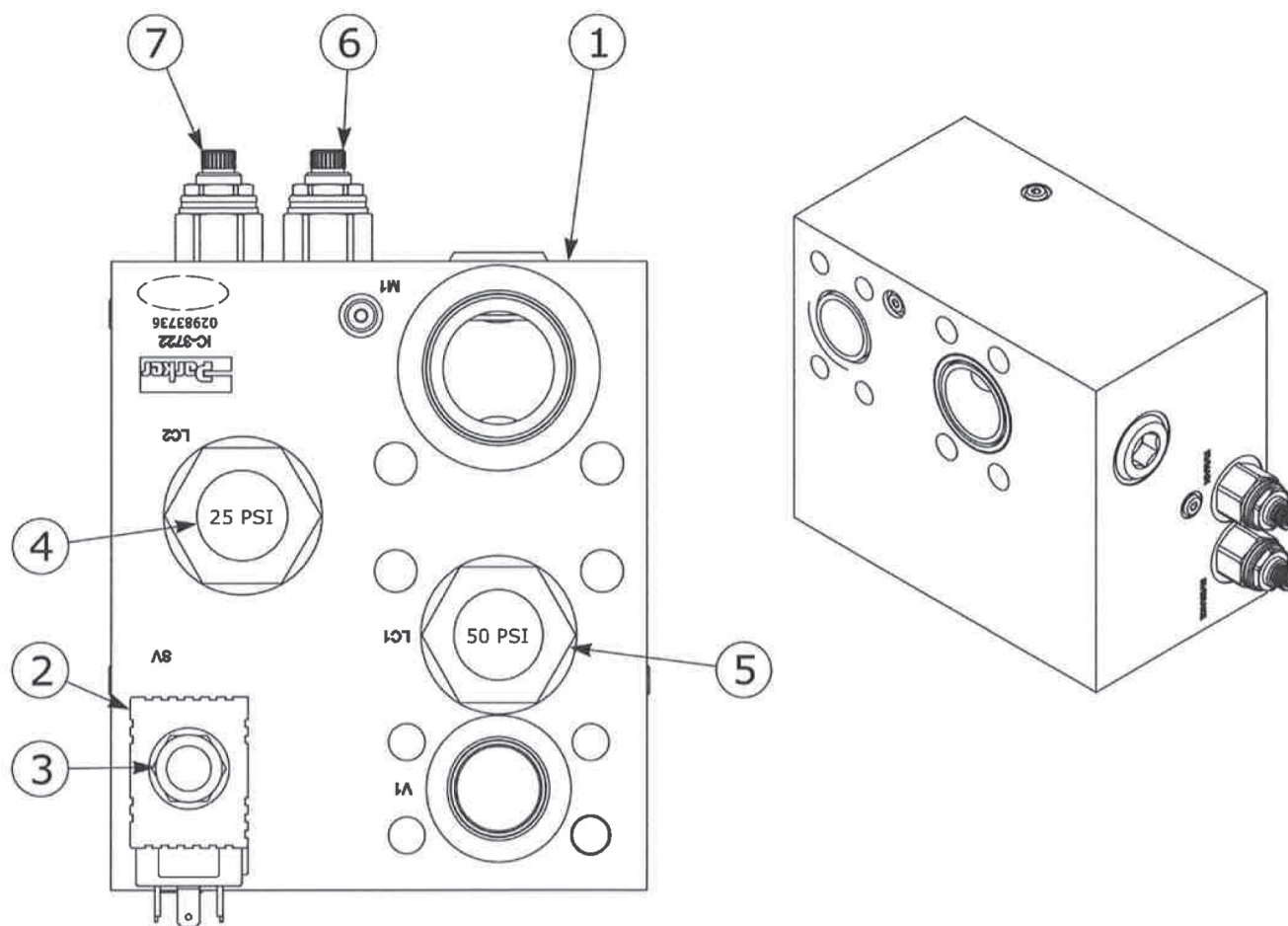
ITEM	PART NO.	QTY.	DESCRIPTION
-----	30102994018	1	WLDMNT, VLV MNT, KB21, KUB 996
	33002742500	2	ADP HYD ELBOW 16MJ-16MJ90 BKHD
----	33002985506	2	ADP, HYD 16FJ-16MJ SWIVEL
-----	32002996831	1	ASY, CONTROL BOX W/MASTER
	32002989868	1	CONTROLLER, 2/AXIS 4 BUTTON
	30002993935	1	PACKING BOX, JOYSTICK, KB21
	32002996830	1	HARNESS, WIRE, ELEC VALVE
	30002996646	1	RUBBER GROMMET, 2-1/4" HOLE
	33002996873	1	ASY, ELEC VALVE, KB21
	33002996875	1	ASY, DUAL PUMP, KB21

COMMON COMPONENT BOX MANUAL - PN 30002994494

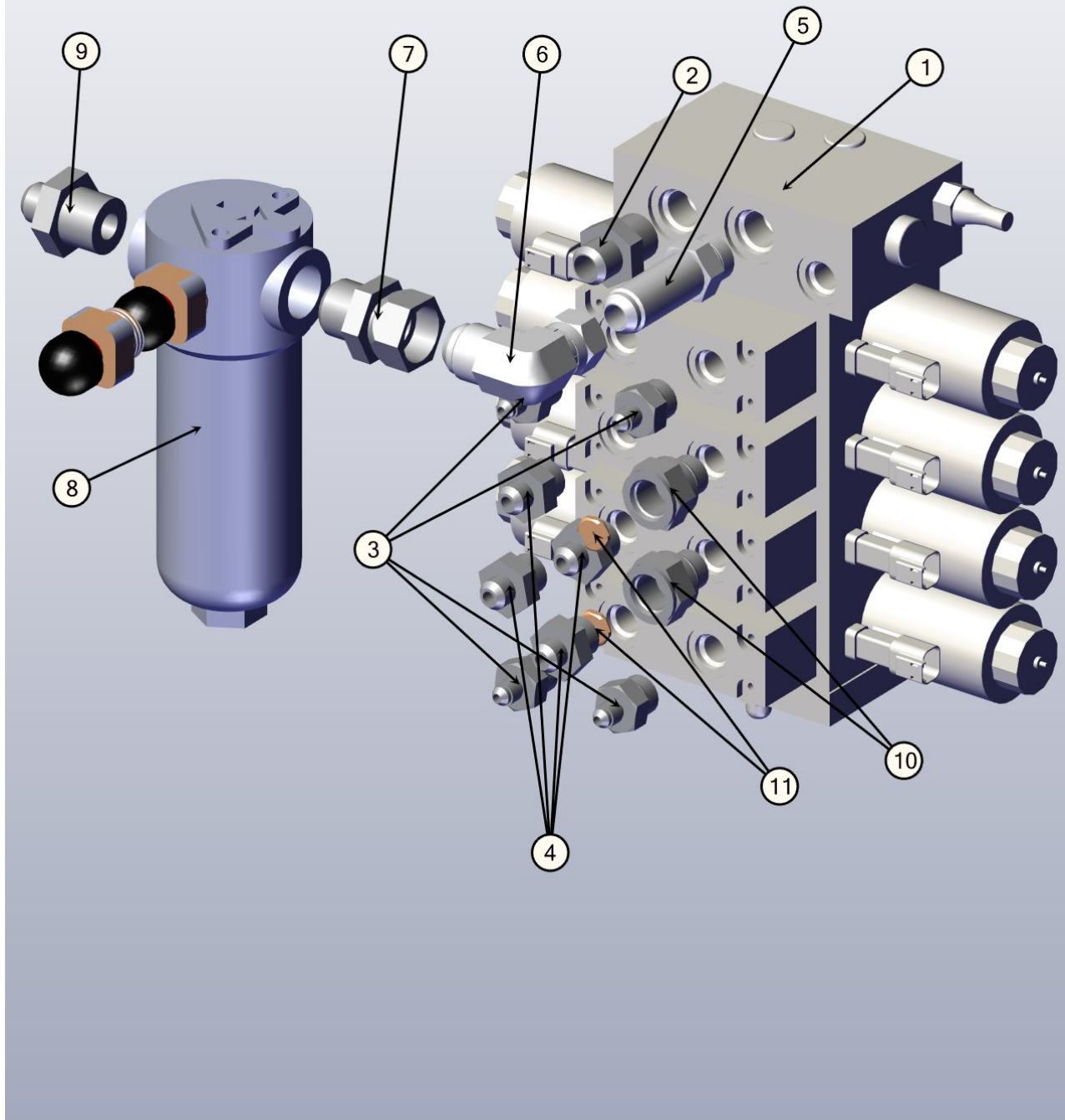
ITEM	PART NO.	QTY.	DESCRIPTION
-----	32002994018	1	WLDMNT, VLV MNT, KB21, KUB 996
-----	33002742500	2	ADP HYD ELBOW 16MJ-16MJ90 BKHD
-----	33002985506	2	ADP, HYD 16FJ-16MJ SWIVEL
	32002997898	1	WIRE HARNESS
	33002990368	4	CONNECTION, CABLE, MANUAL VLVE
	30002994528	1	PACKING BOX, MANUAL, KB21
	32002990367	4	CABLES, 2.0 METERS
	30002996647	1	RUBBER GROMMET, 1-3/4" HOLE
	33002996874	1	ASY, MANUAL VALVE, KB21
	33002996875	1	ASY, DUAL PUMP, KB21

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CUTTER CONTROL VALVE BLOCK



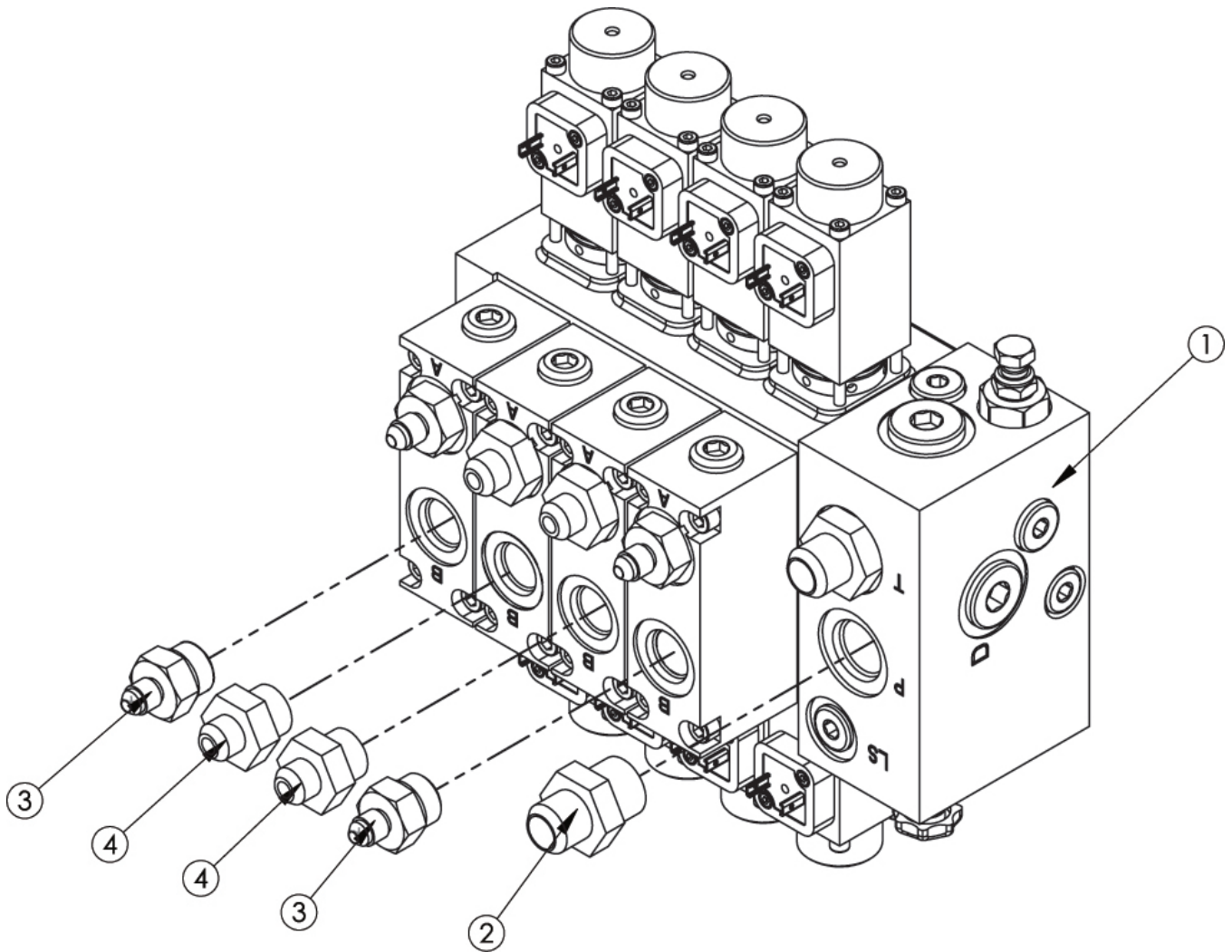
ITEM	PART NO.	QTY.	DESCRIPTION
1	33802989711	1	ASY,MANIFOLD,STEEL,DUAL,C-BLOC
2	33002983513	1	COIL SOLENOID 12VDC DUAL SPADE
3	33002984339	1	SOLENOID, CARTRIDGE 2P3W
4	33002983516	1	LOGIC CART, 25 BAR, CUT VAL
5	33002983517	1	LOGIC CART, 50 BAR, CUT VAL
6	33002987803	1	CARTRIDGE, RELIEF, VALVE, MAIN
7	33002987802	1	CARTRIDGE, RELIEF, VALVE,BRAKE
8	33002986284A	1	TK SEAL KIT, COMPLETE
	33002988120	1	SEAL KIT, BLOCK TO PUMP
	33002980979	2	TK SEAL KIT, POLY, LOGIC VALVE
	33002987165	2	SEAL KIT, VITON, RELIEF VALVE
	33002987375	1	SEAL KIT, VITON, SOL CARTRIDGE



ASY, VALVE, ELEC DTE 4-SEC PN 30032123595**Continued...**

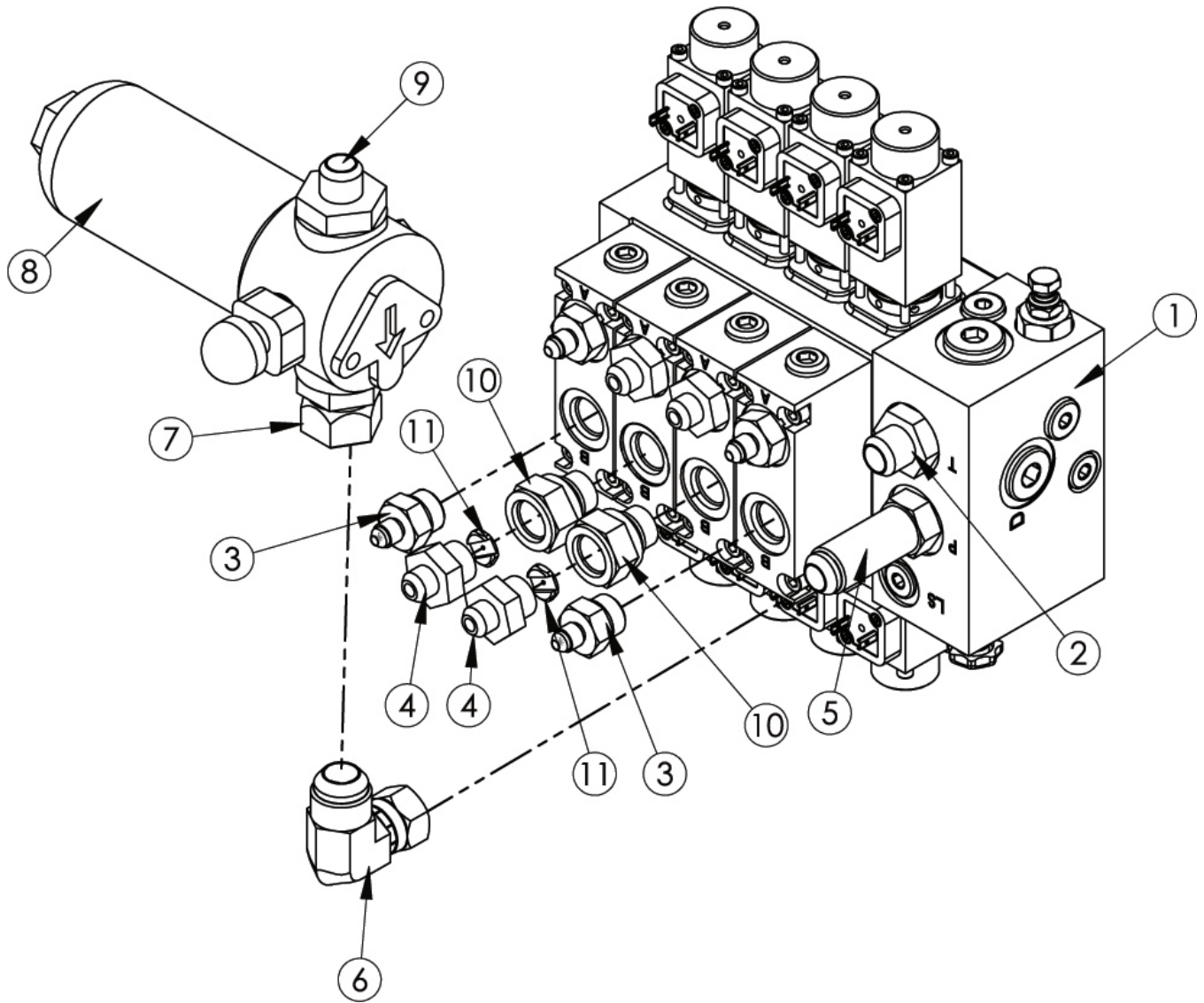
ITEM	PART NO.	QTY.	DESCRIPTION
1	30032123327	1	VALVE, ELEC DTE 4-SEC NP
2	33002042300	1	ADP, HYD ST 10MB - 8MJ
3	33002822300	4	ADP HYD STGHT 8MB-4MJ
4	33002968850	4	ADP HYD STGHT 8MB-6MJ
5	30002999027	1	ADP, HYD, 10MB-10MJ LONG
6	30002999028	1	ADP, HYD, 12MJ-10FJX-90
7	33002964135	1	ADP, HYD ELBOW 12MB - 12FJX
8	30002985280	1	FILTER ASY, PRESSURE, VISU IND
9	30063042700	1	ADP, HYD ST 12MB - 8MJ
10	30002972159	2	ADP HYD STGHT 8FB - 8MB
11	33002972210	2	ORIFICE, .070 ONE-WAY RESTRCTR

VALVE ASSEMBLY ELECTRIC PN 33002996873 PRE SEPT 2018



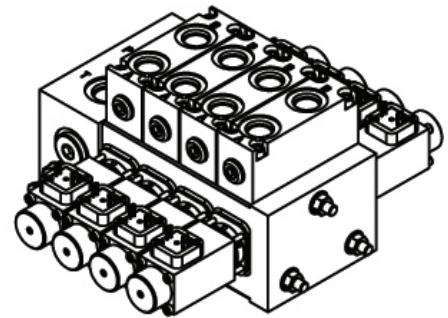
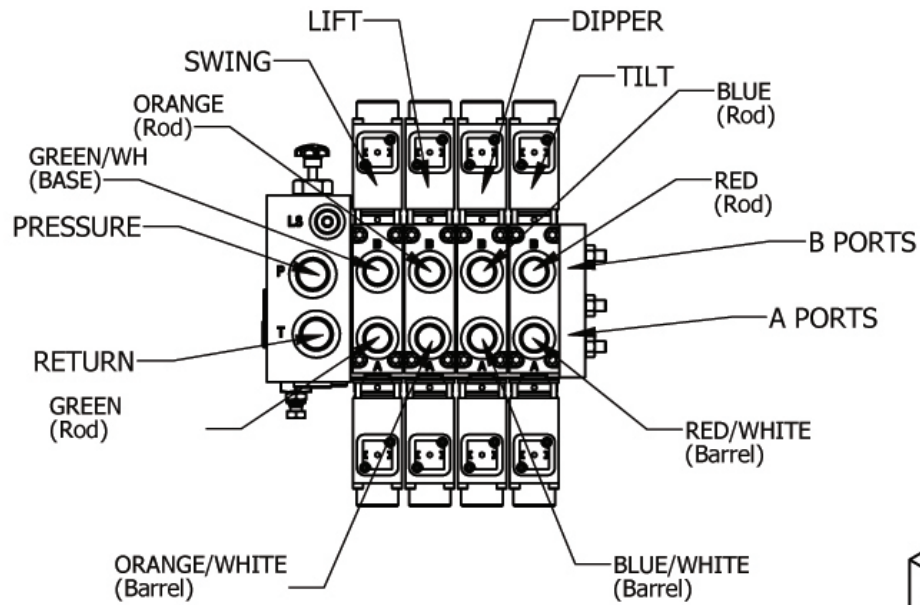
ITEM	PART NO.	QTY.	DESCRIPTION
1	33002989926	1	VALVE, 4-SEC OC ELECT
2	33002042300	2	ADP, HYD ST 10MB - 8MJ
3	33002822300	4	ADP HYD STGHT 8MB-4MJ
4	33002968850	4	ADP HYD STGHT 8MB-6MJ

VALVE ASSEMBLY ELECTRIC PN 33002996873 POST SEPT 2018



ITEM	PART NO.	QTY.	DESCRIPTION
1	30002989926	1	VALVE, 4-SEC OC ELECT
2	30002042300	1	ADP, HYD ST 10MB - 8MJ
3	30002822300	4	ADP, HYD ST 8MB-4MJ
4	30002968850	4	ADP, HYD ST 8MB-6MJ
5	30002999027	1	ADP, HYD, 10MB-10MJ LONG
6	30002999028	1	ADP, HYD, 12MJ-10FJX-90
7	30002964135	1	ADP, HYD ELBOW 12MB - 12FJX
8	30002985280	1	FILTER ASY, PRESSURE, VISU IND
9	30063042700	1	ADP, HYD ST 12MB - 8MJ
10	30002972159	2	ADP HYD STGHT 8FB-8MB
11	30002972210	2	ORIFICE, .070 ONE-WAY RESTRCTR

VALVE ELECTRIC, 4 PORT P/N 02989926



25 l/m spools

Swing Boom Dipper Tilt

		Barrell	Rod	Rod	Rod
B PORTS	Color	GR/WH	OR	BL	RD
	flow (l/min)	7.6	9.1	7.6	11.4
	flow (gpm)	2.0	2.4	2.0	3.0
	Relief (bar)	100	190	190	N/A

		Rod	Barrell	Barrell	Barrell
A PORTS	Color	GR	OR/WH	BL/WH	RD/WH
	flow (l/min)	7.6	5.7	3.8	20.1
	flow (gpm)	2.0	1.5	1.0	5.3
	Relief (bar)	160	100	100	175

MAIN RELIEF - 2700 PSI/190 bar

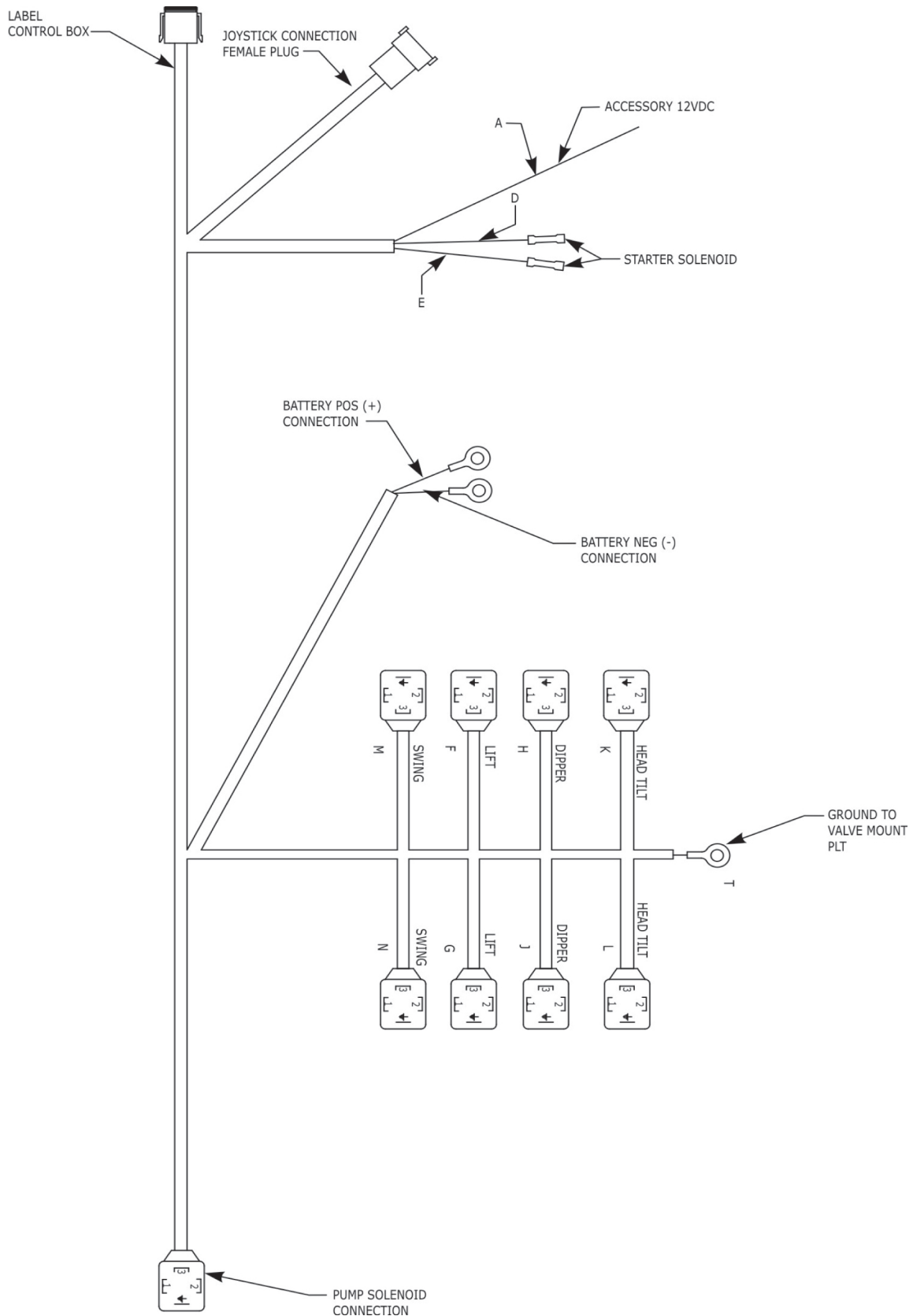
ITEM	PART NO.	QTY.	DESCRIPTION
1	33002998900	1	PLATE,INLET,4 SEC,ELEC VLV
2	33002998901	1	PLATE,OUTLET,4 SEC ELEC VLV
3	33002998902	1	HOUSING, VALVE,4SEC
4	33002998903	1	VALVE,PRESSURE RELIEF,SWING
5	33002998904	1	VALVE,PRESSURE RELIEF,DIPPER
6	33002998905	1	VALVE,PRESSURE RELIEF,TILT

VALVE ELECTRIC, 4 PORT P/N 02989926

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
7	33002998906	1	VALVE,PRESSURE RELIEF,LIFT
8	33002998695	1	PRESSURE PILOT UNIT
9	30002998907	1	SCREW,LU8S
10	30002998908	3	SCREW, CYLINDER HEAD
11	33002992951	1	KIT, SEAL, VALVE, 4-SEC
12	33032120627	1	MODULE, ELEC, 4 SEC

WIRE HARNESS - PN 32002989867

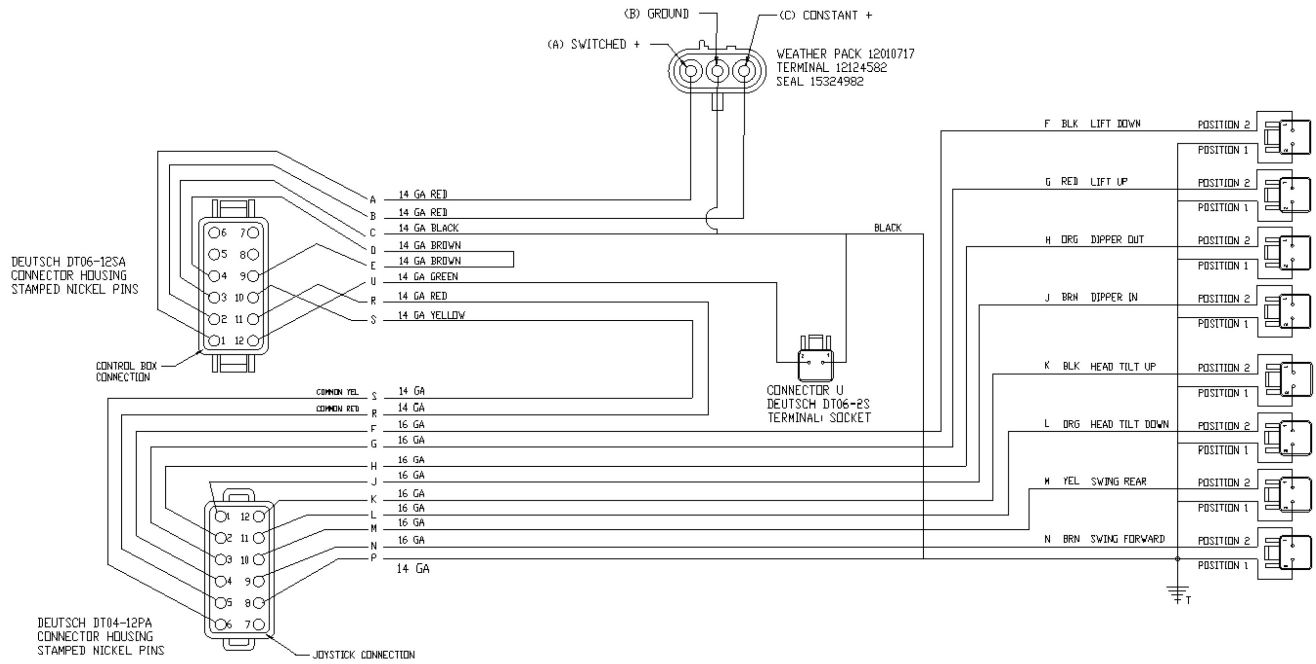


WIRE HARNESS - PN 32002989867

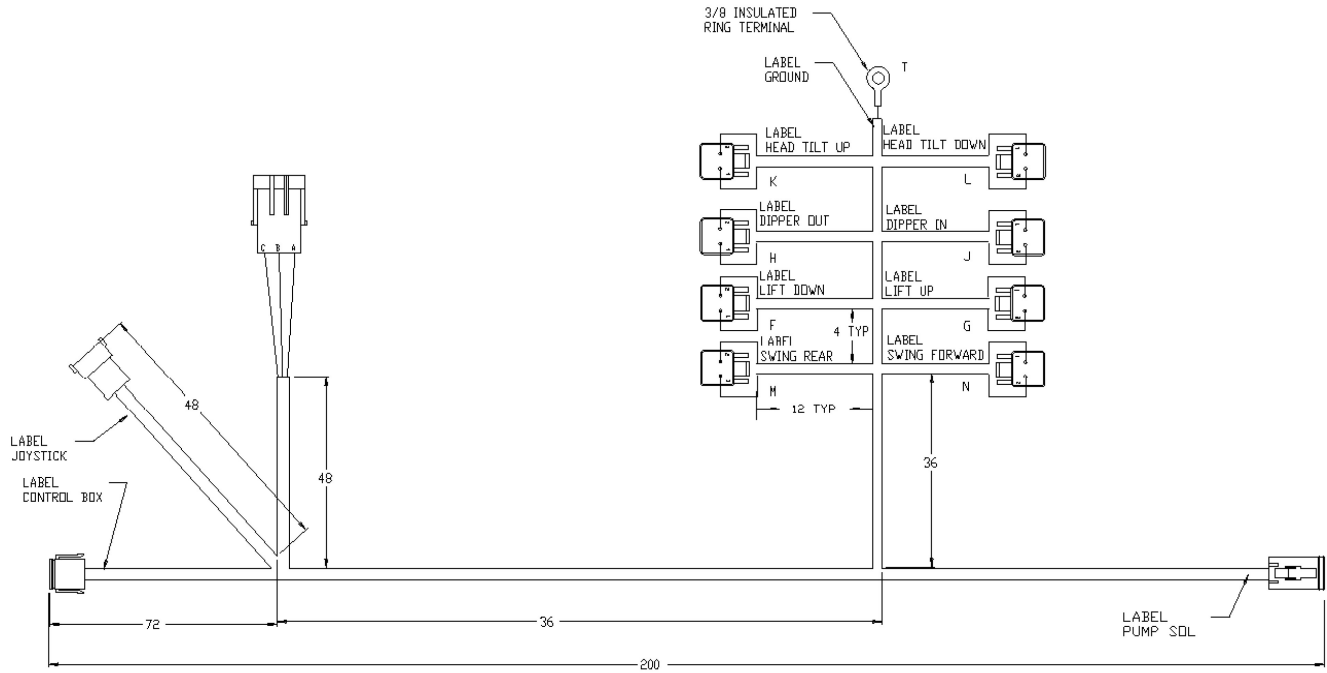
Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
-----	32002989867	1	HARNESS, WIRE, ELEC VALVE
	32002989866	1	ASY, CONTROL BOX W/MASTER

WIRE HARNESS BUCHER VALVE PART 1 PN 32123537



WIRE HARNESS BUCHER VALVE PART 2 PN 32123537



TERRAINKING™

Engineering Practical Solutions™

TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manuals thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of tractor operators:

REQUIRED OF THE OWNER

1. Provide a Roll-Over-Protective Structure that meets the requirements of this standard.
2. Provide seat belts that meet the requirements of this paragraph of this standard and SAE J4C.
3. Ensure that each employee uses such seat belt while the tractor is moving.
4. Ensure that each employee tightens the seat belt sufficiently to confine the employee to the protected area provided by the ROPS.

REQUIRED OF THE OPERATOR

1. Securely fasten seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly, no jerky turns, starts, or stops.
8. Hitch only to the draw bar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available.



Keep children away from danger all day, every day...



Equip tractors with rollover protection (ROPS) and keep all machinery guards in place...



Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.

TERRAIN KING

Limited Warranty

1. Limited Warranties

- 1.01. Terrain King ("Manufacturer") warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser and warrants for six months to the original commercial or industrial purchaser ("Purchaser", as applicable) that the goods purchased are free from defects in material or workmanship.
- 1.02. Manufacturer will replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship during the applicable warranty period.
- 1.03. This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This limited warranty does not apply to any part of any internal combustion engine, or expendable items such as blades, shields, guards, or pneumatic tires except as specifically found in your operator's manual.
- 1.04. No employee, agent, dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2. Remedies And Procedures

- 2.01. This limited warranty is not effective unless the purchaser returns the registration and warranty form to Manufacturer within 30 days of purchase.
- 2.02. Purchaser claims must be made in writing to the authorized dealer ("dealer") from whom Purchaser purchased the goods or an approved authorized dealer ("dealer") within 30 days after Purchaser learns of the facts on which the claim is based.
- 2.03. Purchaser is responsible for returning the goods in question to the dealer.
- 2.04. If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:
 - (A) repair or replace the defective goods or part(s) or
 - (B) reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer. The choice of remedy shall belong to Manufacturer.
- 2.05. Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the dealer to the designated factory.

3. Limitation Of Liability

- 3.01. MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 3.02. MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.
- 3.03. EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.
- 3.04. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4. Miscellaneous

- 4.01. Proper venue for any lawsuits arising from or related to this limited warranty shall be only in Guadalupe County, Texas.
- 4.02. Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.03. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.
- 4.04. Applicable law may provide rights and benefits to Purchaser in addition to those provided herein.

Keep for your records

Attention: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

Terrain King Implement Model _____ Serial Number _____
Date Purchased _____ Dealer _____

Attention:
Read your operator's manual



Terrain King
1502 E WALNUT ST
SEGUIN TX 78155-5202
800-882-5756

