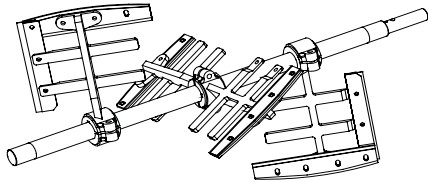
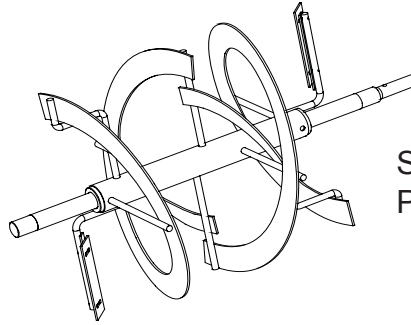


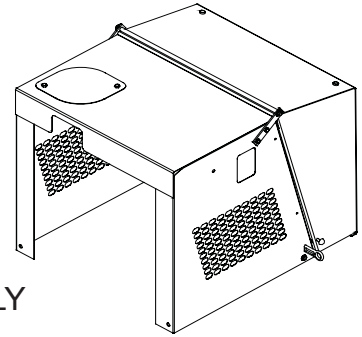
HYDRAULIC MIXERS 12-SH, S12-SH, S16-SH



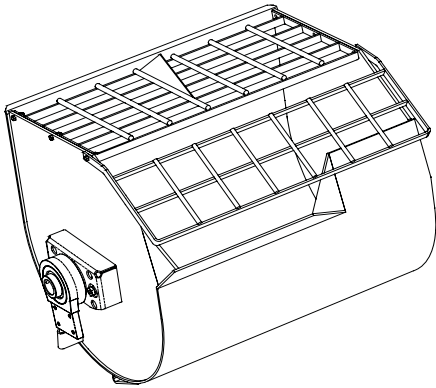
PADDLE ASSEMBLY
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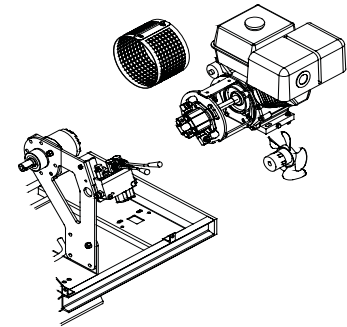
SPIRAL ASSEMBLY
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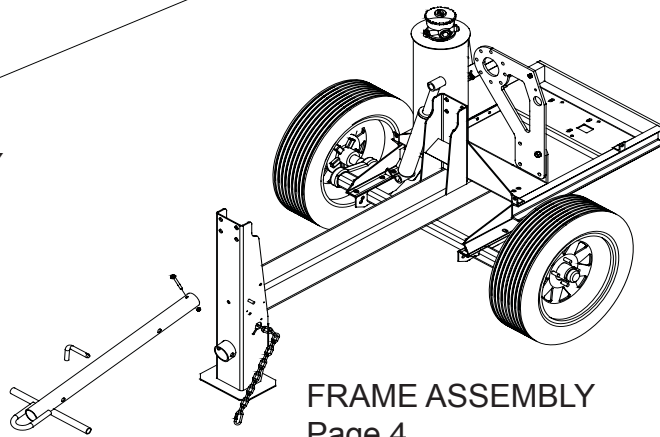
HOOD ASSEMBLY
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DRUM ASSEMBLY
Page 3



DRIVE KIT ASSEMBLY
Page 8



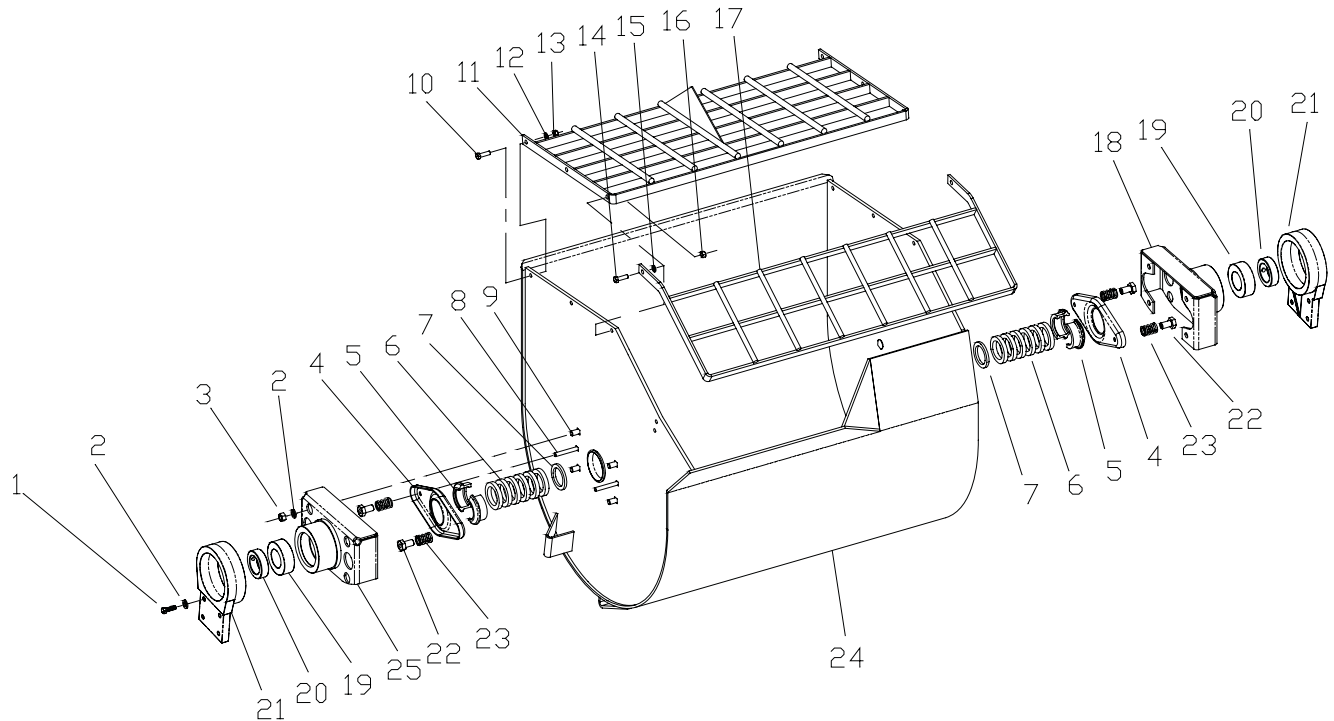
FRAME ASSEMBLY
Page 4

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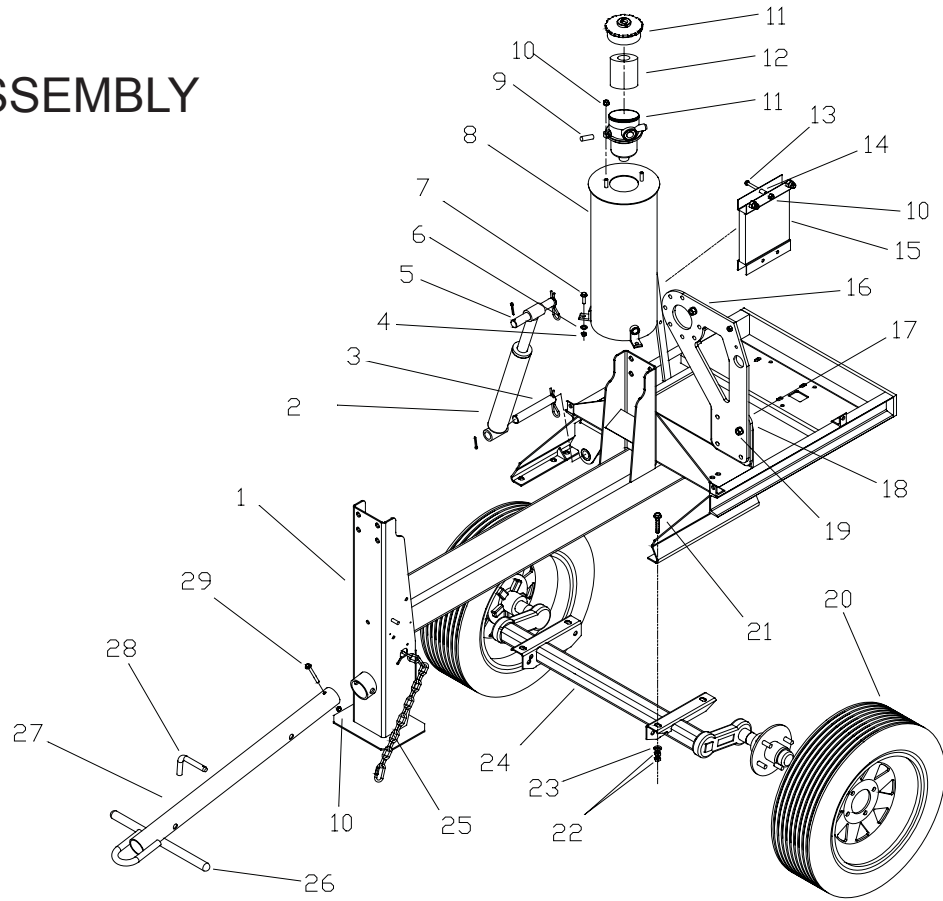
World Wide Web
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DRUM ASSEMBLY



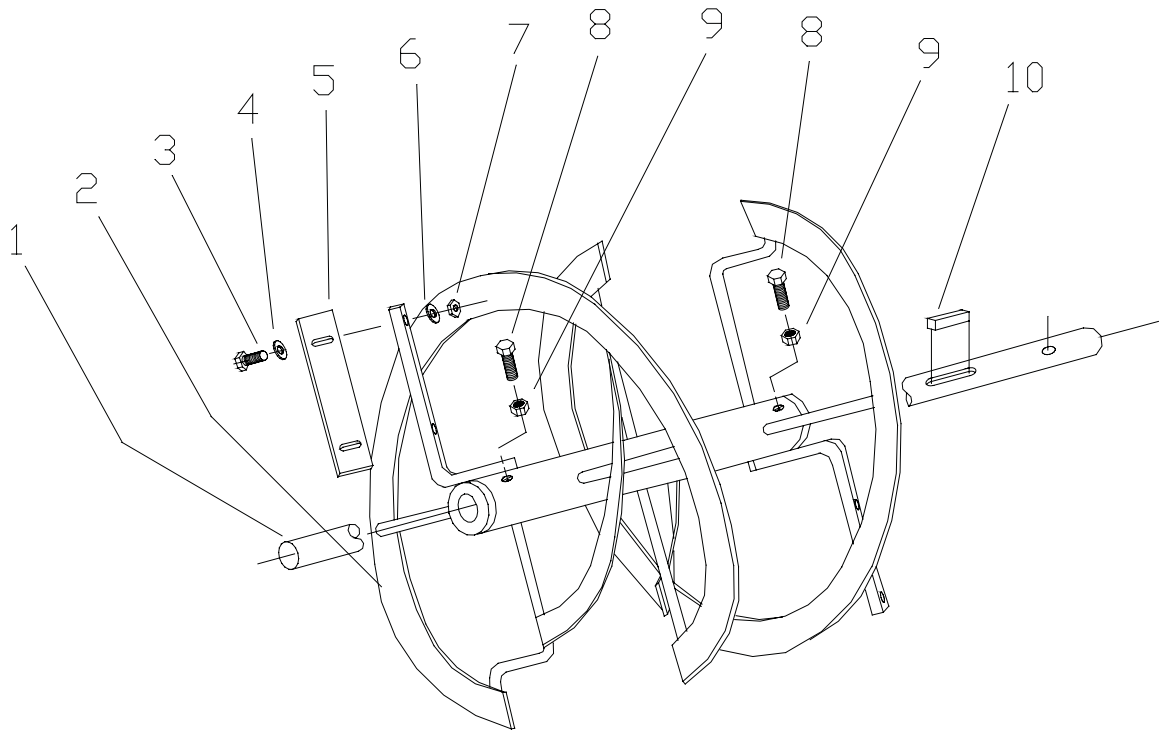
Ref	12SH	S12SH	S16SH	Description	12SH	S12SH	S16SH
1	226640	226640	226640	Bolt, HexHd, 1/2 x 1-1/4	8	8	8
2	176250	176250	176250	Washer, Spring, 1/2	8	8	8
3	128291	128291	128291	Nut, Hex 1/2, Top Lock, Gr5	8	8	8
4	496855	496855	496855	Spring Plate	2	2	2
5	465925	465925	465925	Gland, Half Packing	4	4	4
6	465920	465920	465920	Packing, Alb#176 3/8 x 3/8 x 7.25L	12	12	12
7	465915	465915	465915	Packing Seal Ring	2	2	2
8	117831	117831	117831	Bolt, Carriage, 3/8 x 3	4	4	4
9	118331	118331	118331	Bolt, Carriage 1/2 x 1.5	8	8	8
10	226220	226220	226220	Bolt, HexHd, 3/8 x 1-1/4	4	4	4
11	496490	496490	465024	Grill, Fixed	1	1	1
12	176230	176230	176230	Washer, Spring, 3/8	4	4	4
13	227830	227830	227830	Nut, Hex, 3/8	4	4	4
14	226230	226230	226230	Bolt, HexHd, 3/8 x 1-1/2	2	2	2
15	174986	174986	174986	Washer, 3/8	2	2	2
16	227814	227814	227814	Nut, Hex Lock, 3/8	2	2	2
17	496395	496395	465036	Grill, Hinged	1	1	1
18	412861	412861	412861	Trunnion (c/w cylinder mount bushing)	1	1	1
19	110452	110452	110452	Ball Bearing, 5210 - 2RS JAF	2	2	2
20	410453	410453	410453	Bearing Lock Collar, (c/w set screw)	2	2	2
21	496071	496071	496071	Pivot	2	2	2
22	496860	496860	496860	T-Nut, 3/8-16	4	4	4
23	496861	496861	496861	Spring, Packing Compr	4	4	4
24	412865	412865	412866	Drum Assembly	1	1	1
25	496850	496850	496850	Trunnion	1	1	1

FRAME ASSEMBLY



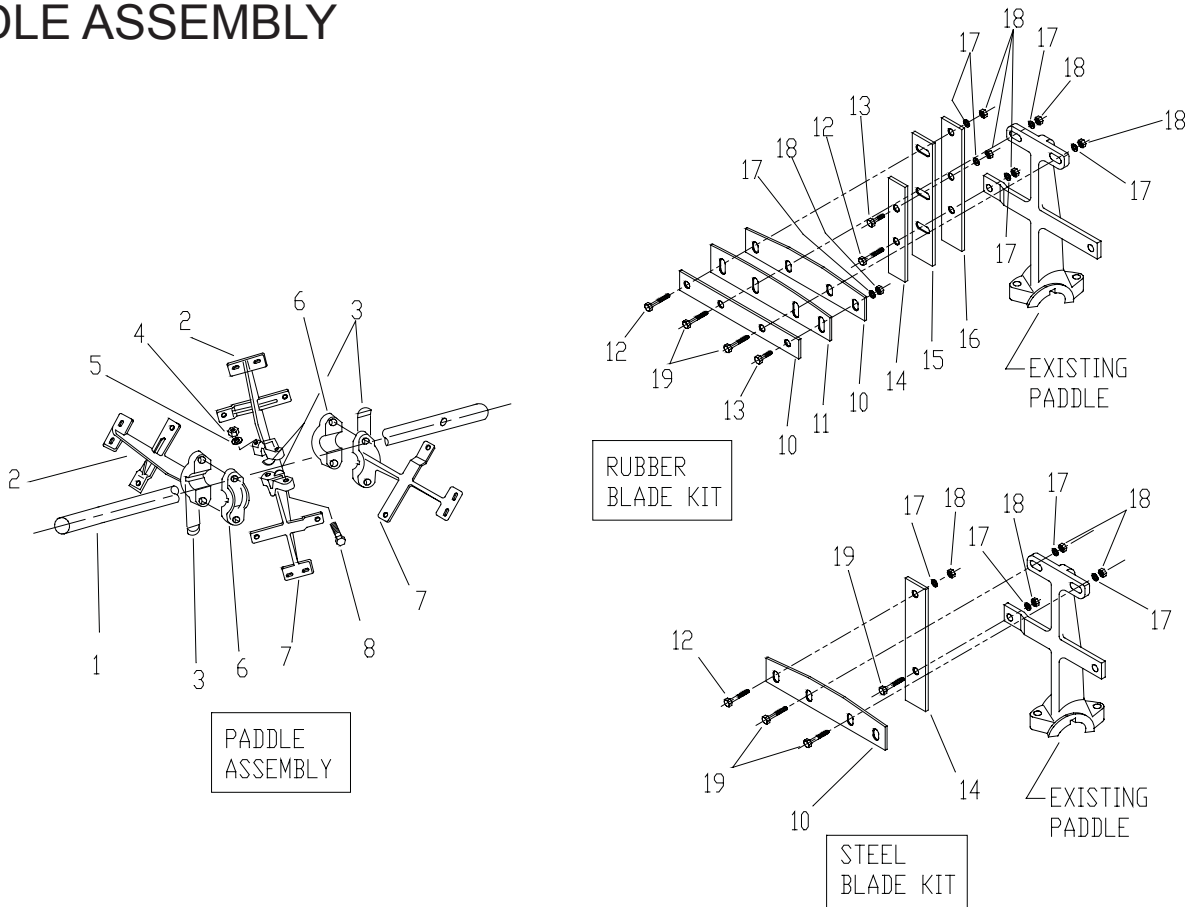
Ref	12SH	S12SH	S16SH	Description	12SH	S12SH	S16SH
1	412863	412863	412862	Frame Assembly	1	1	1
2	412915	412915	412915	Cylinder, Hyd 2" x 10"	1	1	1
3	412855	412855	412855	Pin, Cylinder 1 x 6.5"	1	1	1
4	227830	227830	227830	Nut, Hex, 3/8	3	3	3
5	412826	412826	412826	Pin, Cylinder 1 x 5.5"	1	1	1
6	176230	176230	176230	Washer, Spring, 3/8	3	3	3
7	226210	226210	226210	Bolt, HexHd, 3/8 x 1	3	3	3
8	412801	412801	412801	Reservoir Assembly	1	1	1
9	412873	412873	412873	Filter Element, Breather 10 Micron	1	1	1
10	227814	227814	227814	Nut, Hex Lock, 3/8	5	5	5
11	412857	412857	412857	Filter, Assembly 10 Micron	1	1	1
12	412860	412860	412860	Filter Element, Oil, 10 Micron	1	1	1
13	226270	226270	226270	Bolt, HexHd, 3/8 x 2-1/2	2	2	2
14	412167	412167	412167	Spacer	4	4	4
15	412902	412902	412902	Hydraulic Oil Cooler	1	1	1
16	412810	412810	412810	Reaction Arm	1	1	1
17	412940	412940	412940	Spacer, Reaction Arm	1	1	1
18	226670	226670	226670	Bolt, HexHd, 1/2 x 2	4	4	4
19	128291	128291	128291	Nut, Hex 1/2, Top Lock	4	4	4
20	431081	431081	431081	Wheel & Tire Assy 5.5 x 13	2	2	2
21	226651	226651	226651	Bolt, HexHd 1/2 x 1-1/2 Gr8 Ylw	4	4	4
22	227854	227854	227854	Nut, Hex, 1/2	8	8	8
23	174470	174470	174470	Washer, 1/2	4	4	4
24	431090	431090	431090	Axle	1	1	1
25	609686	609686	609686	Safety Chain	9	9	9
26	247032	247032	247032	Dome Plug	2	2	2
27	464938	464938	464938	Drawbar - Pintel	1	1	1
28	496088	496088	496088	Pin, Lock	1	1	1
29	134955	134955	134955	Hitch Pin Clip	1	1	1

SPIRAL ASSEMBLY



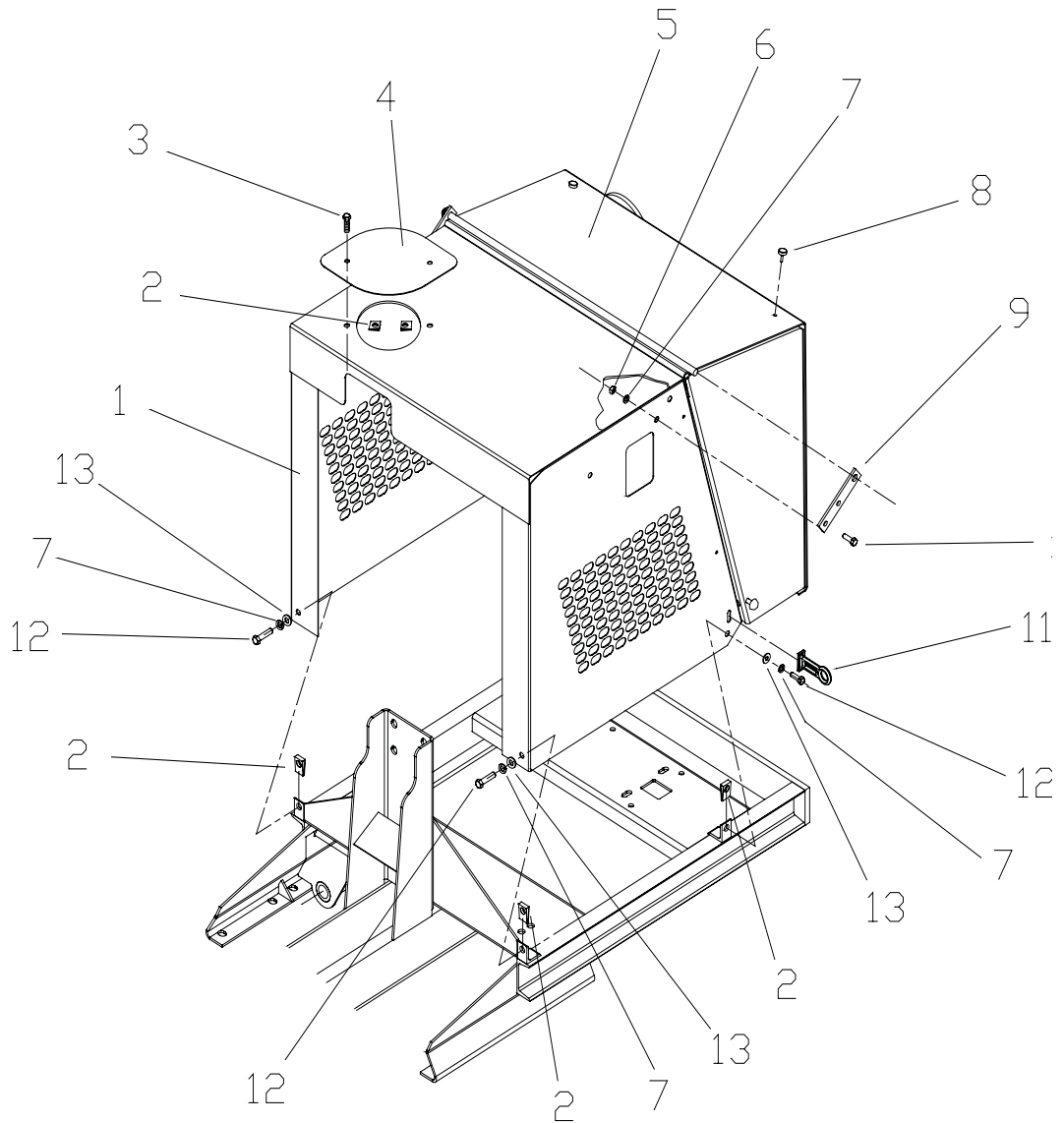
Ref	12S	S12S	S16S	Description	12S	S12S	S16S
1	*	496670	496671	Shaft	*	1	1
2	*	464937	465020	Spiral Weldment	*	1	1
3	*	226000	226000	Bolt, HexHd, 5/16 x 1-1/2	*	4	4
4	*	174990	174990	Washer, 5/16	*	4	4
5	*	496242	496242	Scraper	*	2	2
6	*	176220	176220	Washer, Spring, 5/16	*	4	4
7	*	227820	227820	Nut, Hex, 5/16	*	4	4

PADDLE ASSEMBLY



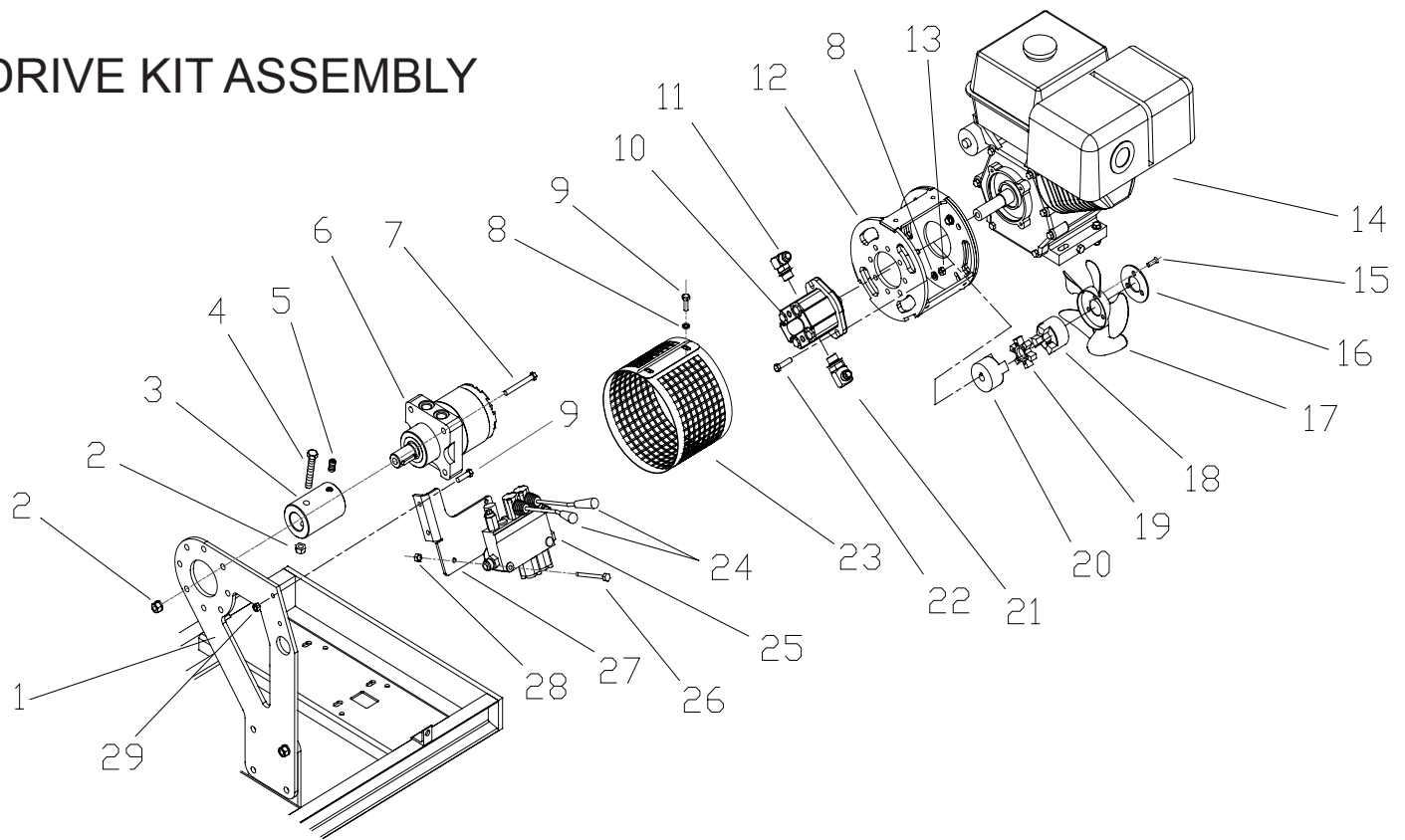
Ref	12S	S12S	S16S	Description	12S	S12S	S16S
Paddle Assembly							
1	496672	*	*	Shaft	1	*	*
2	96125	*	*	Paddle LH	2	*	*
3	176811	*	*	Key Woodruff 1212 3/8 x 1-1/2	4	*	*
4	227854	*	*	Nut, Hex, 1/2	6	*	*
5	176250	*	*	Washer, Spring, 1/2	6	*	*
6	96126	*	*	Cap, Paddle	2	*	*
7	96124	*	*	Paddle RH	2	*	*
8	226711	*	*	Bolt, Hexhd G5 PI 1/2UNC x 3	6	*	*
Rubber Blade Kit - 609804							
10	496097	*	*	Blade, Top	8	*	*
11	190973	*	*	Wiper, Top	4	*	*
12	226220	*	*	Bolt, HexHd, 3/8 x 1-1/4	4	*	*
13	226210	*	*	Bolt, HexHd, 3/8 x 1	10	*	*
14	496098	*	*	Blade, Side	2	*	*
15	190974	*	*	Wiper, Side	2	*	*
16	496099	*	*	Blade, Side	2	*	*
17	174986	*	*	Washer, 3/8	20	*	*
18	227830	*	*	Nut, Hex, 3/8	22	*	*
19	226230	*	*	Bolt, HexHd, 3/8 x 1-1/2	8	*	*
Steel Blade Kit - 609814							
10	496097	*	*	Blade, Top	4	*	*
12	226210	*	*	Bolt, HexHd, 3/8 x 1	2	*	*
14	496098	*	*	Blade, Side	2	*	*
17	174986	*	*	Washer, 3/8	12	*	*
18	227830	*	*	Nut, Hex, 3/8	12	*	*
19	226220	*	*	Bolt, HexHd, 3/8 x 1-1/4	10	*	*

HOOD ASSEMBLY



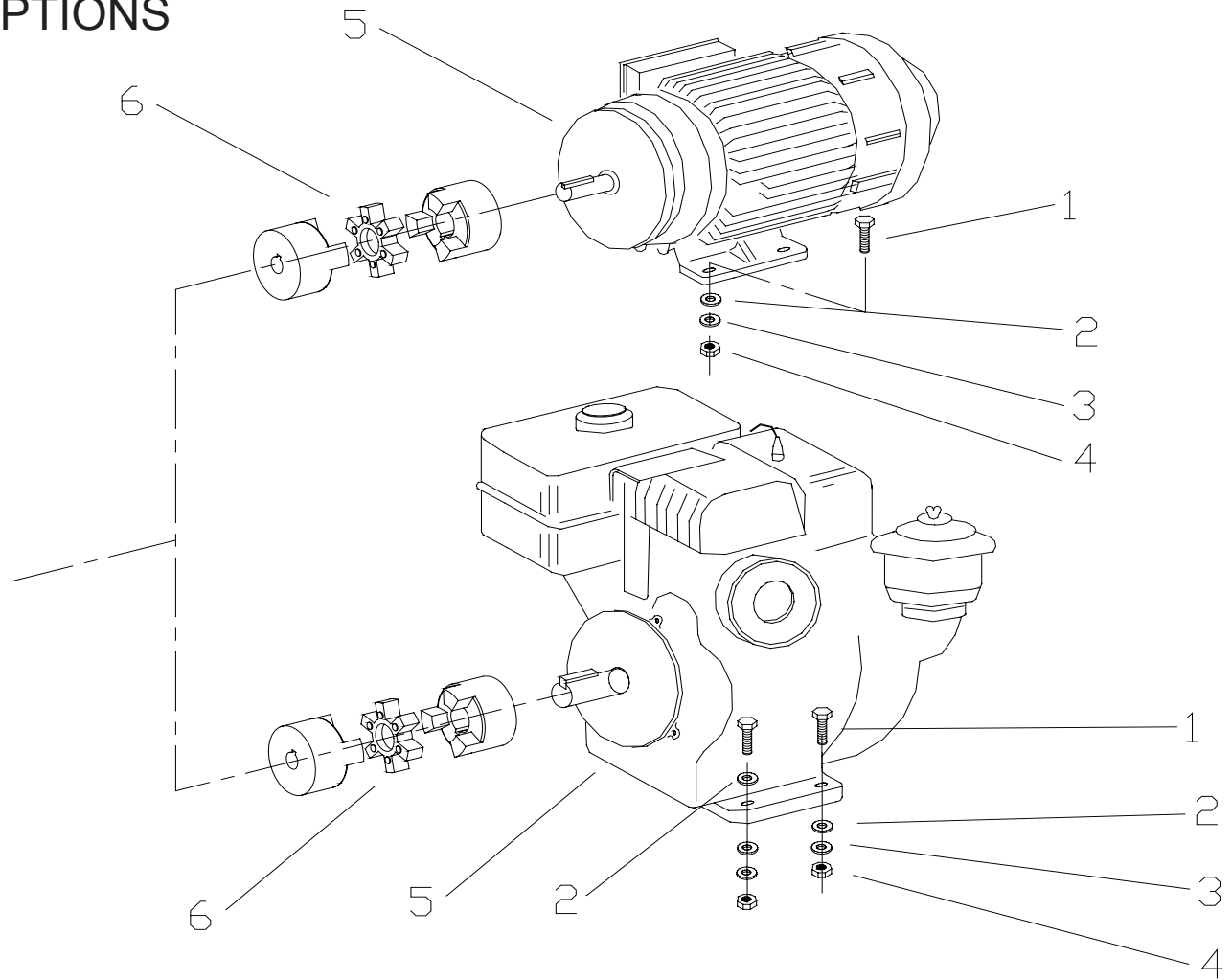
Ref	12SH	S12SH	S16SH	Description	12SH	S12SH	S16SH
1	412864	412864	412864	Fixed Hood	1	1	1
2	485523	485523	485523	Panel Nut, 5/16	6	6	6
3	225960	225960	225960	Bolt, HexHd, 5/16 x 3/4	6	6	6
4	412825	412825	412825	Access Cover	1	1	1
5	464735	464735	464735	Hinged Hood	1	1	1
6	227820	227820	227820	Nut, Hex, 5/16	4	4	4
7	176220	176220	176220	Washer, Spring, 5/16	8	8	8
8	201544	201544	201544	Rubber Bumper	4	4	4
9	465009	465009	465009	Hinge Bracket	2	2	2
10				<i>Item Not Used</i>			
11	201543	201543	201543	Rubber Hood Latch	2	2	2
12	225980	225980	225980	Bolt, HexHd, 5/16 x 1	4	4	4
13	174986	174986	174986	Washer, 3/8	4	4	4

DRIVE KIT ASSEMBLY



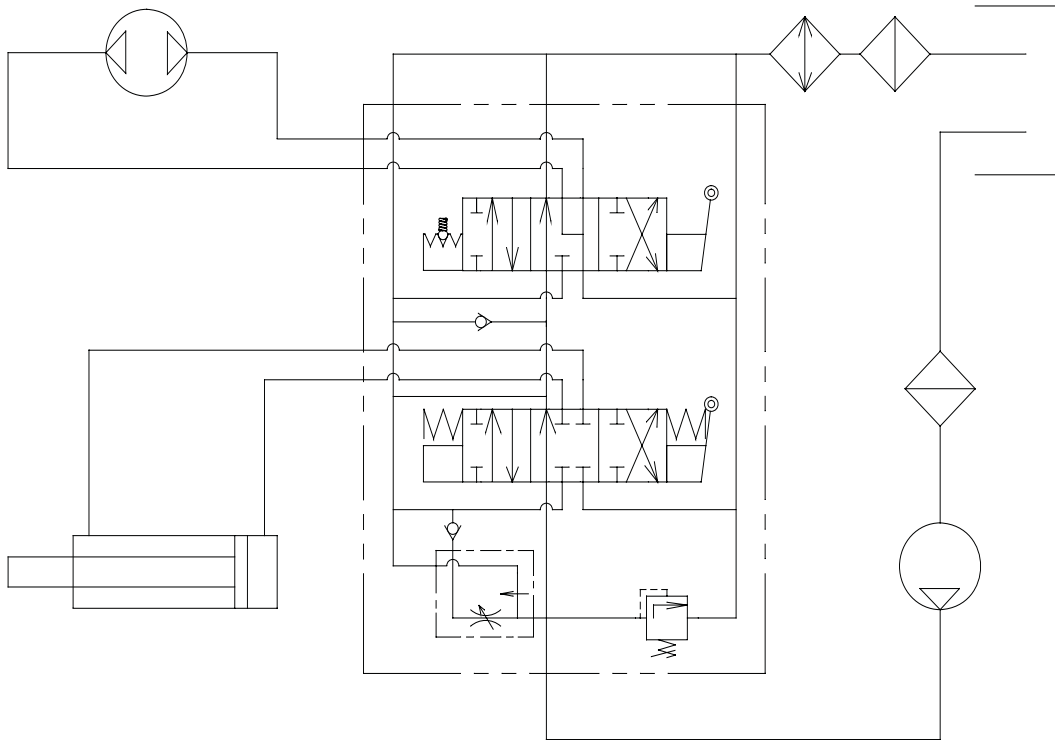
Ref	12S	S12S	S16S	Description	12S	S12S	S16S
1	412810	412810	412810	Reaction Arm	1	1	1
2	128291	128291	128291	Nut, Hex 1/2, Top Lock, Gr5	5	5	5
3	412814	412814	412814	Coupler, 1.5" W/Pkey	1	1	1
4	226745	226745	226745	Bolt UNC 1/2 x 3-1/2 Gr 9	1	1	1
5	228028	228028	228028	Set Screw, 5/16 x 3/8	1	1	1
6	412950	412950	412950	Motor, Hyd 32.7 In ³ /Rev	1	1	1
7	226701	226701	226701	Bolt, HexHd, 1/2 x 2-3/4	4	4	4
8	176230	176230	176230	Washer, Spring, 3/8	4	4	4
9	226210	226210	226210	Bolt, HexHd, 3/8 x 1	4	4	4
10	412927	412927	412927	Pump, Hyd .366 In ³ Rev, Gas Engine	a/r	a/r	a/r
10	412928	412928	412928	Pump, Hyd .659 In ³ Rev, Elec Motor	a/r	a/r	a/r
11	412926	412926	412926	Adapter, 90° #10 ORB Male ~ #10 JIC	1	1	1
12	412800	412800	412800	Pump Mount W.A ~ 'A' Flange	1	1	1
13	227830	227830	227830	Nut, Hex, 3/8	2	2	2
14				Motor/Engine, See page 9	a/r	a/r	a/r
15	142532	142532	142532	SHCS 5/16 x 3/4, CSK	3	3	3
16	412815	412815	412815	Fan Collar, 2" BCD	1	1	1
17	412851	412851	412851	Fan, 8" CCW	1	1	1
18	412856	412856	412856	Coupler, L100 x 1" dia	1	1	1
19	412854	412854	412854	Insert, L099-100U Blue	1	1	1
20	412853	412853	412853	Coupler, L100 x 5/8" Dia	1	1	1
21	412920	412920	412920	Adapter, 90° #12 ORB ~ #10 JIC	1	1	1
22	226230	226230	226230	Bolt, HexHD, 3/8 x 1-1/2	2	2	2
23	412820	412820	412820	Guard, 9" Dia	1	1	1
24	485704	485704	485704	Lever, Valve Control	2	2	2
25	412914	412914	412914	Valve, 2 Spool Press Comp	1	1	1
26	226003	226003	226003	Bolt, HexHd, 5/16 x 2-1/2	2	2	2
27	412818	412818	412818	Valve Mounting Bracket	1	1	1
28	227821	227821	227821	Nut, 5/16, Nylon lock	2	2	2
29	227814	227814	227814	Nut, Hex, Lock, 3/8	2	2	2

OPTIONS



Ref	12SH	S12SH	S16SH	Description	12SH	S12SH	S16SH
1	226240	226240	226240	Bolt, Hex Hd, 3/8 x 1-3/4	4	4	4
2	174986	174986	174986	Washer, 3/8	2	2	2
3	176230	176230	176230	Washer, Spring, 3/8	4	4	4
4	227830	227830	227830	Nut, hex, 3/8	4	4	4
2	174986	174986	174986	Washer, 3/8	2	2	2
5	202020	202020	202020	Eng. Hon, 13 Hp, GX 390 K1QA6	1	1	1
6	412856	412856	412856	Coupler, L100 x 1" Dia	1	1	1
5	219991	219991	*	Motor, 5 Hp, 1-115/230, Ext Shaft	1	1	*
6	412859	412859	*	Coupler, L100 x 1.125" Dia	1	1	*
5	219993	219993	219993	Motor, 7.5 Hp, 3-575, Ext Shaft, 1" C Fl	1	1	1
6	412871	412871	412871	Coupler, L100 x 1.375" Dia	1	1	1
5	219999	219999	219999	Motor, 7.5 Hp, 1-115/230, 1" C Flg	1	1	1
6	412859	412859	412859	Coupler, L100 x 1.125" Dia	1	1	1
5	220000	220000	220000	Motor, 7.5 Hp, 3-239/460, Ext Shaft	1	1	1
6	412871	412871	412871	Coupler, L100 x 1.375" Dia	1	1	1

HYDRAULIC SCHEMATIC



HYDRAULIC HOSES & FITTINGS

Part	Description	Qty	Location
412858	Detent Kit	1	Valve
412903	Hose, 3/4 x 16" #10 JIC ~ #10 JIC	1	Reservoir To Pump Btm
412904	Hose, 1/2 x 18" #10 JIC ~ #10 JIC	1	Valve To Pump - Side
412905	Hose, 3/8 x 72" #6 JIC ~ #6 JIC	2	Valve To Cylinder
412906	Hose, 1/2 x 24" #10 JIC ~ #10 JIC	2	Valve To Motor
412907	Hose, 1/2 x 18" #8 JIC ~ #8 JIC	2	Cooler To Valve & Filter
412909	Adapter, 90° #4 NPT ~ #6 JIC	2	Cylinder
412910	Adapter, #8 ORB ~ #10 JIC	2	Valve
412911	Adapter, #10 ORB ~ #10 JIC	1	Valve
412912	Adapter, #12 ORB ~ #8 JIC	1	Filter
412913	Adapter, 45° #8 NPT ~ #10 JIC	1	Reservoir ~ Btm
412916	Adapter, #8 ORB ~ #6 JIC	2	Valve
412917	Adapter, Plug #10	1	Valve
412918	Adapter, Plug #8	1	Valve
412919	Adapter, 90° #8 JIC Fem ~ #8 JIC Male	2	Filter
412922	Adapter, 45° #10 ORB ~ #10 JIC	2	Hyd. Motor (pdl/sprl shft)
412925	Adapter, Hyd #8 ORB ~ #8 JIC	1	Valve
412932	Ftg, Plug, #8 NPT	2	Reservoir
485104	Adapter, 90° #10 JIC Fem ~ #10 JIC Male	1	Valve
485115	Screen, Sucton - 100 Mesh 1" NPT	1	Reservoir