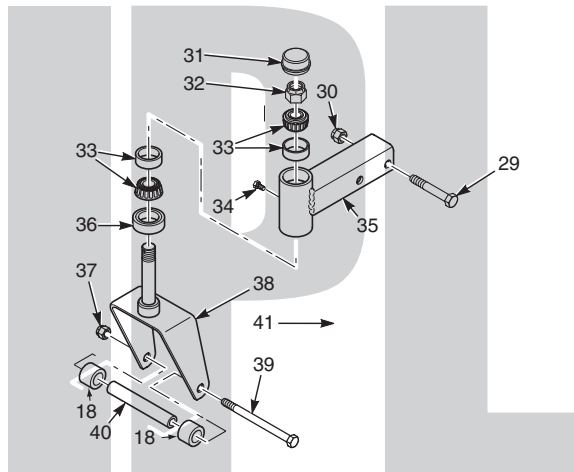


SCAG[®]

POWER EQUIPMENT



ILLUSTRATED PARTS MANUAL



Model STT-31EFI Turf Tiger

THIS MANUAL CONTAINS THE ILLUSTRATED PARTS LIST FOR MODELS:

STT61V-31EFI-SS

STT-31EFI-SS

SMT-61V

SMT-72VS

with a serial number of E3700001 to E3799999

with a serial number of E5500001 to E5599999

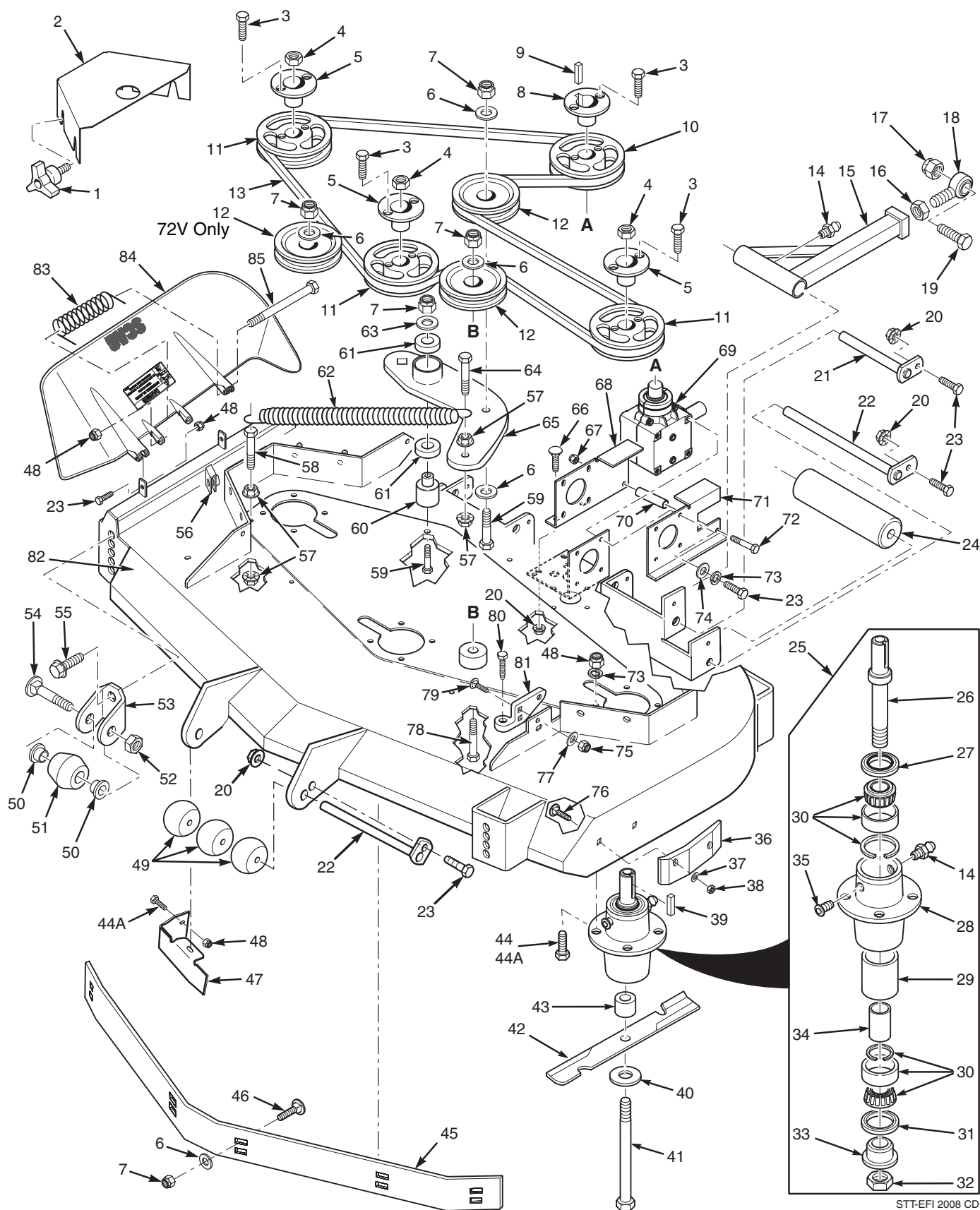
with a serial number of D9500001 to D9599999

with a serial number of E3400001 to E3499999

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61V & 72VS CUTTER DECKS

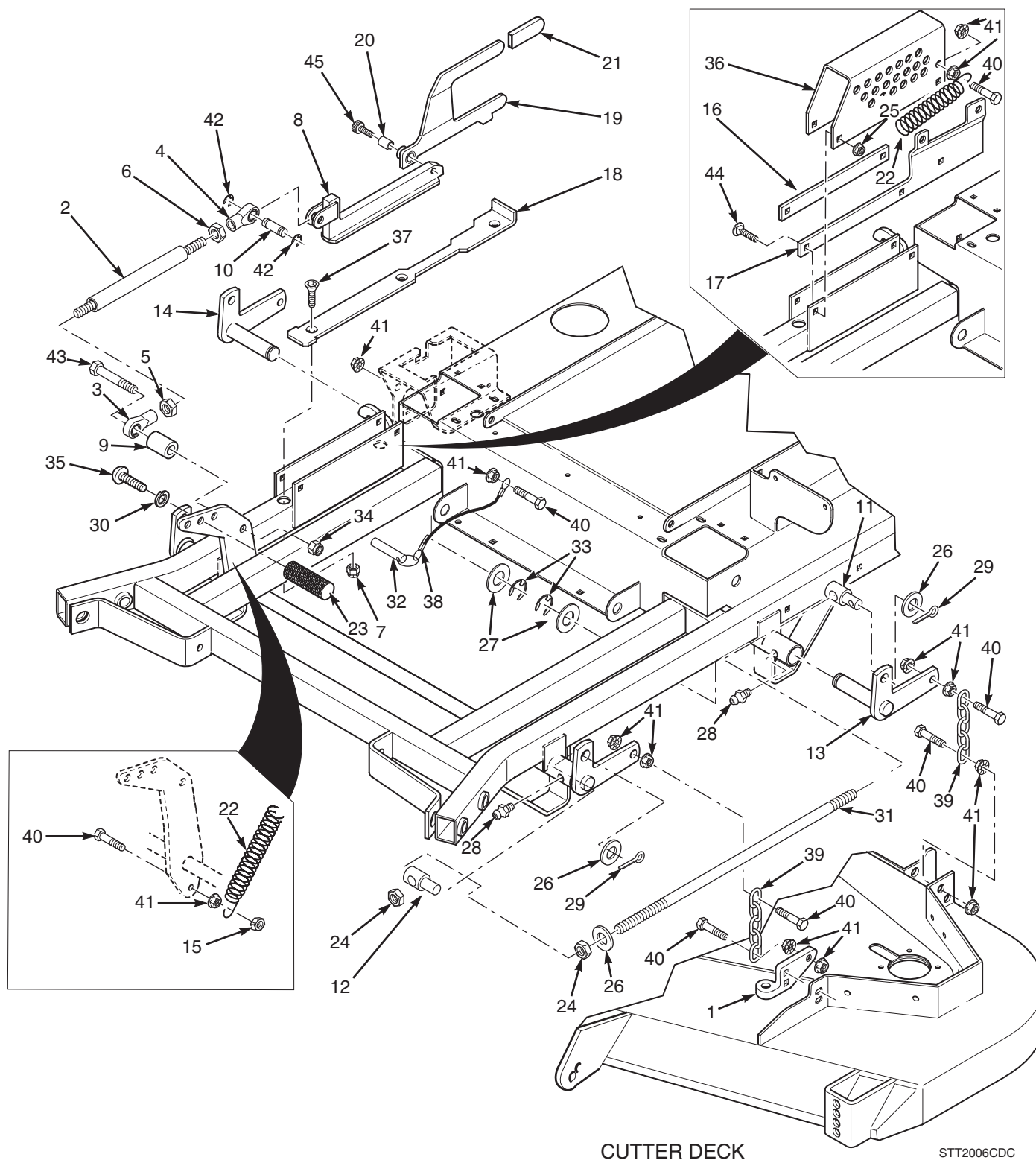


61V & 72VS CUTTER DECKS

Ref. No.	Part No.	Description	61	72
1	481625-01	Wing Nut, 3/8-16	X	X
2	424325	Belt Cover	X	
	422708	Belt Cover RH		X
	422677	Belt Cover LH		X
3	04001-172	Bolt, Hex Head 1/4-20 x 1" Grd 8	X	X
4	04020-09	Nut, 5/8-11 UNC	X	X
5	48926	Tapered Hub, 1-1/8" Bore	X	X
6	04041-07	Flatwasher, 3/8" (.391 x .938 x .105)	X	X
7	04021-09	Nut, Hex Elastic Stop 3/8-16	X	X
8	48141	Tapered Hub, 1" Bore	X	X
9	04063-0	Key, 1/4 x 1/4 x 1-1/4"	X	X
10	482746	Pulley, 6.75 O.D.	X	
	482745	Pulley, 6.35 O.D.		X
11	482745	Pulley, 6.35 O.D.	X	
	482747	Pulley, 6.95 O.D.		X
12	483215	Pulley, Idler	X	X
13	481558	Belt, Cutter Deck Drive	X	
	481980	Belt, Cutter Deck Drive		X
14	48114-04	Grease Fitting	X	X
15	461516	Pusharm (incl. items 14, 16, & 18)	X	X
16	04020-16	Nut, Hex Head 5/8-18 UNF	X	X
17	04021-13	Nut, Hex Elastic Stop 5/8-11	X	X
18	48763	Rod End, 5/8" Male RH Thread	X	X
19	04001-79	Bolt, Hex Head 5/8-11 x 4-1/2"	X	X
20	04019-03	Nut, Hex Serrated Flange 5/16-18	X	X
21	451240	Push Arm Shaft	X	X
22	45944	Roller Shaft	X	X
23	04001-12	Bolt, Hex Head 5/16-18 x 1-3/4"	X	X
24	48038	Wheel, Anti-Scalp	X	X
25	461663	Spindle Assembly	X	X
26	43589	Spindle Shaft	X	X
27	481024	Seal, Top	X	X
28	43644	Spindle Housing	X	X
29	43312	Spacer, Outside	X	X
30	481022	Bearing Assembly	X	X
31	481025	Seal, Bottom	X	X
32	481035	Nut, Special 1-1/16-18	X	X
33	43297	Spindle Bushing, Bottom	X	X
34	43296	Spacer, Inside	X	X
35	48677	Relief Fitting, Tapered Spindle	X	X
36	483176	Wear Pad	X	
	483174	Wear Pad		X
37	04040-04	Flatwasher, 5/16"	X	X
38	04021-04	Nut, Center Lock 5/16-18	X	X
39	04063-08	Key, 1/4 x 1/4 x 2"	X	X
40	04043-06	Flatwasher, 5/8" Hardened	X	X
41	04001-41	Bolt, Hex Head 5/8-11 x 9-1/2"	X	X
42	482879	Cutter Blade, 21"	X	
	482882	Cutter Blade, 24.5"		X
	43590	Spacer, Spindle Bottom	X	X
43	04001-176	Bolt, Hex Head 5/16-18 x 1-3/4"	X	X
44				

Ref. No.	Part No.	Description	61	72
45	424841	Baffle, Custom Cut 61V	X	
	424917	Baffle, Custom Cut 72V		X
46	04003-23	Bolt, Carriage 3/8-16 x 1"	X	X
47	424209	Discharge Baffle 61V	X	X
	424856	Discharge Baffle 72V	X	X
48	04021-22	Nut, Hex Elastic Stop 5/16-18 Grd 8	X	X
49	482295	Wheel, Anti-Scalp	X	X
50	48100-15	Bushing, .376 I.D. Oilite	X	X
51	481632	Anti-Scalp Wheel	X	X
52	04021-05	Locknut, 3/8-16 Center Lock	X	X
53	422478	Anti-Scalp Wheel Bracket	X	X
54	04003-26	Bolt, Carriage 3/8-16 x 4"	X	X
55	04017-27	Bolt, Hex Serrated Flange 3/8-16 x 1"	X	X
56	04110-03	U-Nut, 3/8-16	X	X
57	04019-04	Nut, Hex Serrated Flange 3/8-16	X	X
58	04001-20	Bolt, Hex Head 3/8-16 x 1-1/2"	X	X
59	04001-54	Bolt, Hex Head 3/8-16 x 3"	X	X
60	43503	Pivot, Idler - Short	X	X
61	48224	Bearings, Ball	X	X
62	483704	Spring, Cutter Deck	X	X
63	04043-04	Flatwasher, 3/8-.39 x .938 x .105 HD	X	X
64	04001-136	Bolt, Hex Head 3/8-16 x 1-1/2" Grd 8	X	X
65	461842	Idler Arm, Cutter Deck	X	X
66	04003-12	Bolt, Carriage 5/16-18 x 3/4"	X	X
67	04021-10	Nut, Elastic Stop 5/16-18	X	X
68	424798	Mounting Plate, RH Gearbox	X	X
69	482486	Gearbox Assembly, Deck Drive	X	X
70	43763	Spacer, Gearbox Mount	X	X
71	424799	Mounting Plate, LH Gearbox	X	X
72	04001-154	Bolt, Hex Head 5/16-18 x 4-3/4"	X	X
73	04030-03	Lockwasher, 5/16"	X	X
74	04040-15	Flatwasher, 5/16" (.375 x .875 x .083)	X	X
75	04021-11	Nut, Elastic Stop 7/16-14	X	X
76	04003-12	Bolt, Carriage 5/16-18 x 3/4"	X	X
77	04040-11	Flatwasher, 7/16-.500 x 1.25 x .083	X	X
78	04001-62	Bolt, Hex Head 3/8-16 x 3-1/4"	X	X
79	04003-40	Bolt, Carriage 7/16-14 x 1-1/4"	X	X
80	483167	Bolt, Deck Adjust	X	X
81	461929	Lever Assy, Deck Level (Incl. 80)	X	X
82	461863	Cutter Deck 61 V w/Decals	X	
	462144	Cutter Deck 72 V w/Decals		X
83	483378	Spring, Discharge Chute	X	X
84	461846	Discharge Chute 61V	X	
	462132	Discharge Chute 72V		X
85	04001-108	Bolt, Hex Head 5/16-18 x 4-1/2"	X	X

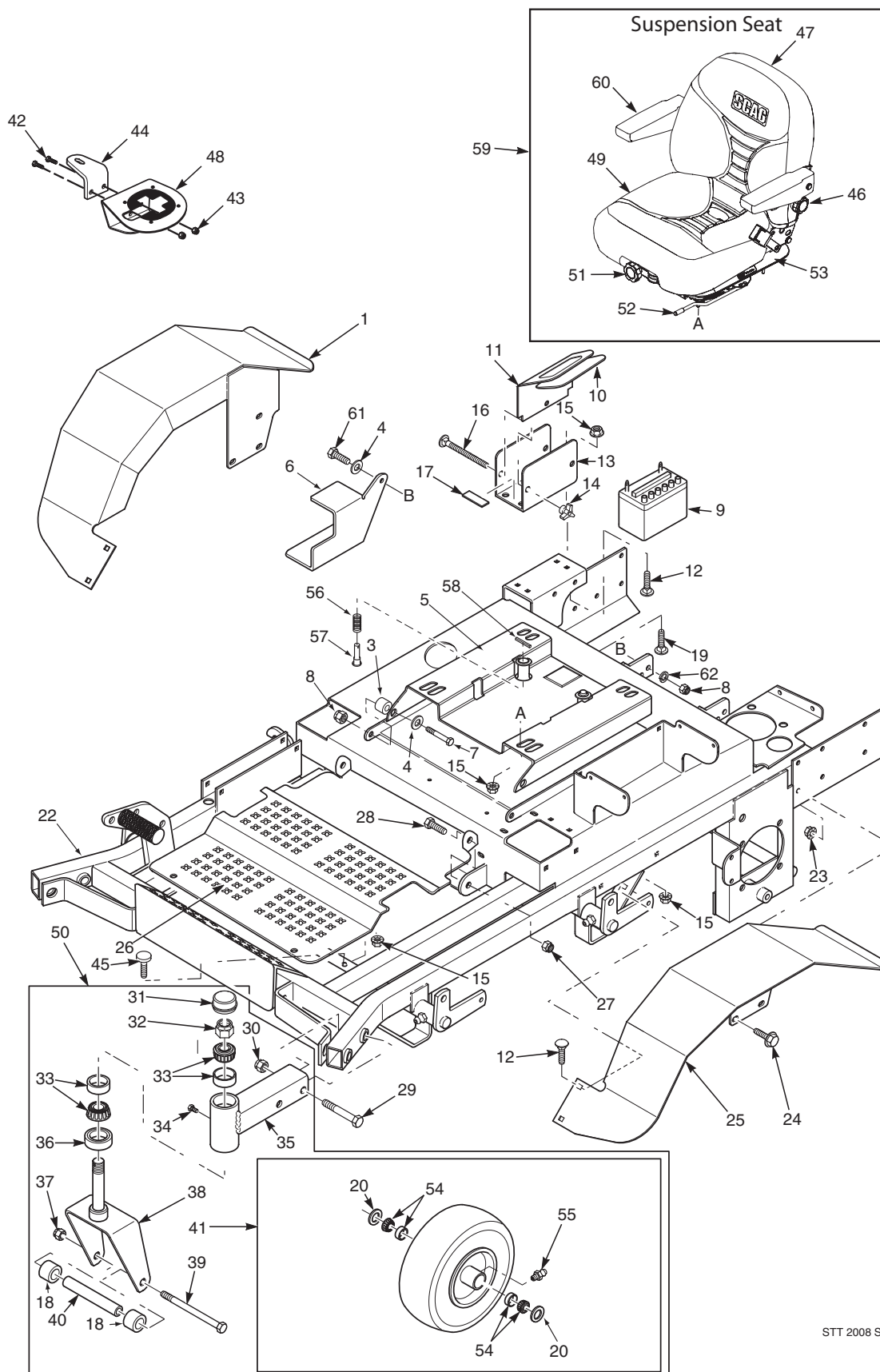
CUTTER DECK CONTROLS



CUTTER DECK CONTROLS

Ref. No.	Part No.	Description
1	461929	Lever Assembly, Deck Level
2	481764	Link, Deck Lift
3	481765	Rod End, Female - 1/2-20 RH
4	481766	Rod End, Female - 1/2-20 LH
5	04020-27	Nut, Jam 1/2-20 RH
6	04020-28	Nut, Jam 1/2-20 LH
7	04021-09	Nut, 3/8-16 Elastic Stop
8	482429	Slide Weldment, Height Adjustment
9	43391	Spacer, Decklift Pedal
10	43487	Pin, Decklift
11	43526	Swivel Joint, LH
12	43527	Swivel Joint, RH
13	45904	Bellcrank Weldment, LH Rear
14	45905	Bellcrank Weldment, RH Rear
15	04021-05	Locknut, 3/8-16 Center Lock
16	422381	Guide, Short
17	423509	Guide, Long
18	422346	Lockplate, Decklift
19	46975	Deck Latch (Incl. 20 & 21)
20	48100-14	Bushing, .502" I.D.
21	481428	Grip, Deck Latch
22	481598	Spring, Helper (61" & 72" Cutter Decks Only)
23	424504	Foot Pedal, Height Adjustment
24	04020-09	Nut, Hex 5/8-11
25	04019 -03	Nut, Hex Serr. Flng. 5/16-18
26	04040-09	Flatwasher, 5/8" (.656 x 1.312 x .095")
27	04041-14	Flatwasher, 1" (1.062 x 1.50 x .048")
28	48114-04	Grease Fitting
29	04061-07	Cotter Pin, 3/16 x 1"
30	04030-07	Lockwasher, 5/8"
31	04004-44	Stud, 5/8-11 x 22.0"
32	04067-09	Ring Pin, 1/2 x 3.06"
33	04050-08	Ring, Retaining 1" External "E"
34	04021-07	Nut, Hex Elastic Stop 1/2-13
35	04105-01	Capscrew, 5/8-11 x 1-1/2"
36	423463	Bracket, Cutting Height Adjustment
37	04014-03	Screw, Cap 5/16-18 x 3" FHHS
38	481547	Lanyard, Deck Height Pin
39	48540	Chain
40	04001-20	Bolt, Hex Hd. 3/8-16 x 1-1/2"
41	04019-04	Nut, Hex Serr. Flng. 3/8-16
42	04050-10	Ring, Retaining 1/2" External "E"
43	04001-74	Bolt, Hex Hd. 1/2-13 x 3"
44	04003-04	Bolt, Carriage 5/16-18 x 1"
45	04009-02	Bolt, Shoulder 1/2 x 3/4"

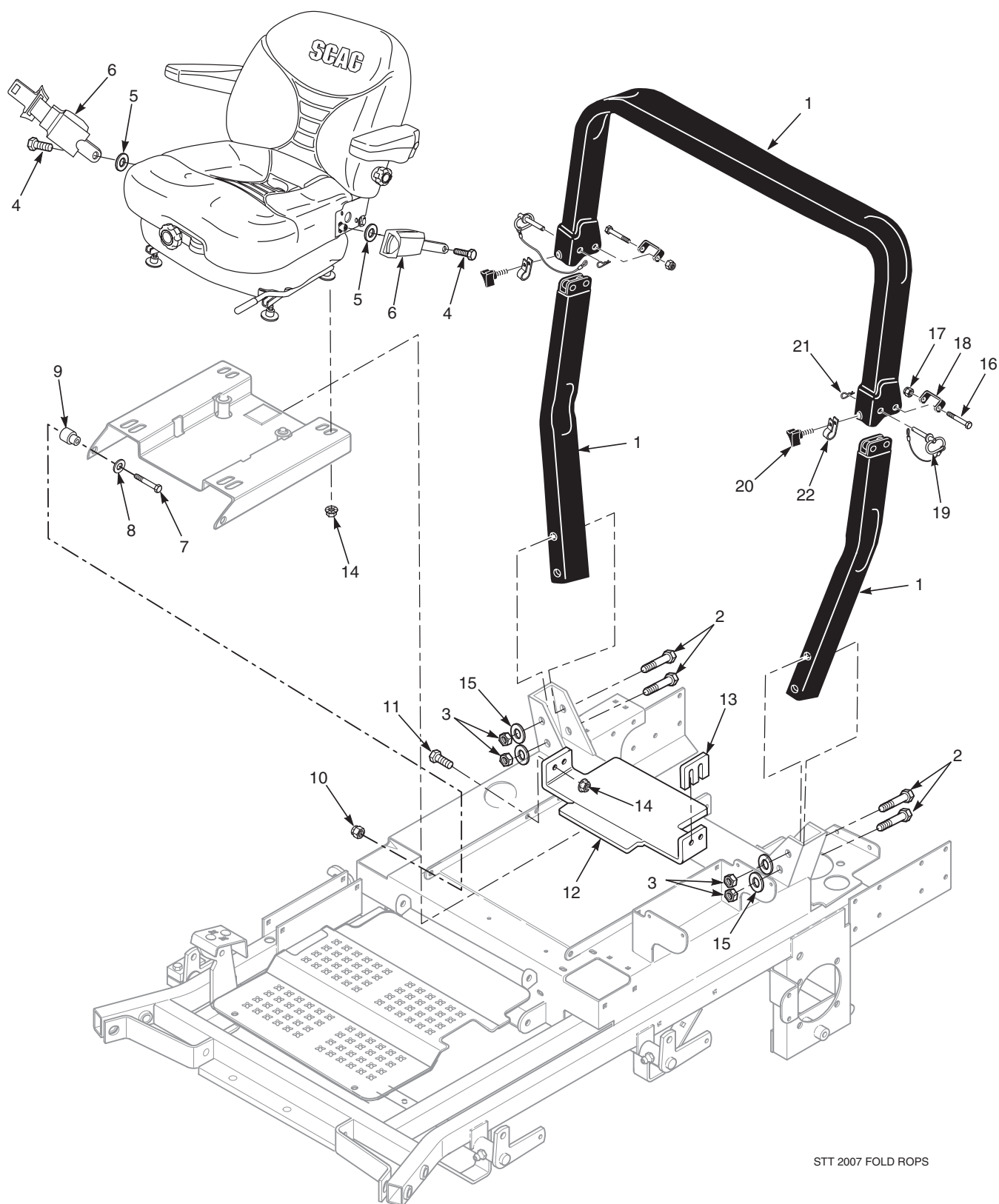
SHEET METAL COMPONENTS



SHEET METAL COMPONENTS

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	451481	Fender Weldment, RH	46	48566	Cable, Seat Stop
2	04001-09	Bolt, Hex Hd., 5/16-18 x 1, Zinc	47	482940	Back Cushion Kit
3	43606	Spacer	48	9240	Cup Holder Assembly
4	04041-07	Flatwasher, 3/8 (.391 x .938 x .105")	49	482941	Seat Cushion Kit
5	461967	Seat Plate Weldment			Seat Drain Kit (Incl. with Seat Cushion)
6	424819	Guard, Fuel Line	50	461908	Caster Wheel Assembly (Incl. 31 thru 43)
7	04001-45	Bolt, Hex Hd. 3/8-16 x 2.0"		461909	61V LH
8	04021-09	Nut, Elastic Stop 3/8-16			Caster Wheel Assembly (Incl. 31 thru 43)
9	*	Battery (not available. through Scag)			61V RH
10	48903	Pad, Battery Cover	51	482944	Weight Adjustment Kit
11	421274	Cover, Battery		482948	Knob Kit
12	04003-12	Bolt, Carriage 5/16-18 x 3/4"	52	482952	Seat Adjustment, Track Set
13	423308	Plate, Battery Box	53	482942	Shock Absorber Kit
14	04029-01	Wing Nut, 1/4-20 x 3/4"	54	482621	Bearing w/Race
15	04019-03	Nut, Hex Serr. Flng. 5/16-18	55	48114-10	Grease Fitting
16	04003-01	Bolt, Carriage 1/4-20 x 6"	56	481389	Spring, Seat
17	48661	Rubber Pad	57	43462	Pin Retainer, Spring
18	43584	Spacer, Caster Wheel	58	04060-01	Roll Pin, Spring 5/32 x 3/4"
19	04003-04	Bolt, Carriage 5/16-18 x 1"	59	483428	Suspension Seat Assembly w/Seat Belt
20	482622	Seal	60	482950	Armrest Only
21	04021-09	Locknut, 3/8-16, Elastic Stop		482945	Armrest Assembly Kit, LH
22	461991	Main Frame		482946	Armrest Assembly Kit, RH
23	04019-04	Nut, Hex Serr. Flng. 3/8-16	61	04001-20	Bolt, Hex Head 3/8-16 x 1-1/2"
24	04017-27	Screw, Hex Serr. Flng. 3/8-16 x 1"	62	04030-04	Lockwasher, 3/8" Spring
25	451480	Fender Weldment, LH			
26	423489	Foot Plate			
27	04021-09	Nut, Hex Elastic Stop 3/8-16			
28	04001-19	Bolt, Hex Hd. 3/8-16 x 1"			
29	04001-125	Bolt, Hex Hd. 5/8-11 x 4"			
	04001-186	Bolt, Hex Hd. 5/8-11 x 4-1/4"			
30	04021-13	Nut, Hex Elastic Stop 5/8-11			
31	481559	Cap, Grease			
32	04021-20	Nut, Hex Elastic Stop 1.0-14			
33	481657	Bearing w/Race			
34	482028-01	Plug, 1/4-28 THD Form			
35	451825	Extension Weldment, Caster 61V LH			
	451451	Extension Weldment, Caster 61V RH			
36	481025	Seal, 2.00" O.D. x 1.625" Bore			
37	04021-07	Nut, Hex Elastic Stop 1/2-13			
38	451416	Yoke Weldment, Caster (61V)			
39	04001-167	Bolt, Hex Hd. 1/2-13 x 9-1/2" (61V)			
40	43583	Sleeve, Caster Wheel (61V)			
41	9278	Wheel Assy, 61V, 72A (Incl. 20, 54, & 55)			
42	04001-01	Bolt, Hex Hd. 1/4-20 x 3/4"			
43	04001-01	Bolt, Hex Hd. 1/4-20 x 3/4"			
44	423674	Mounting Bracket, STT Cup Holder			
45	482943	Lumbar Kit			
	482948	Knob Kit			

STT ROLL-OVER PROTECTION SYSTEM - WITH SUSPENSION SEAT

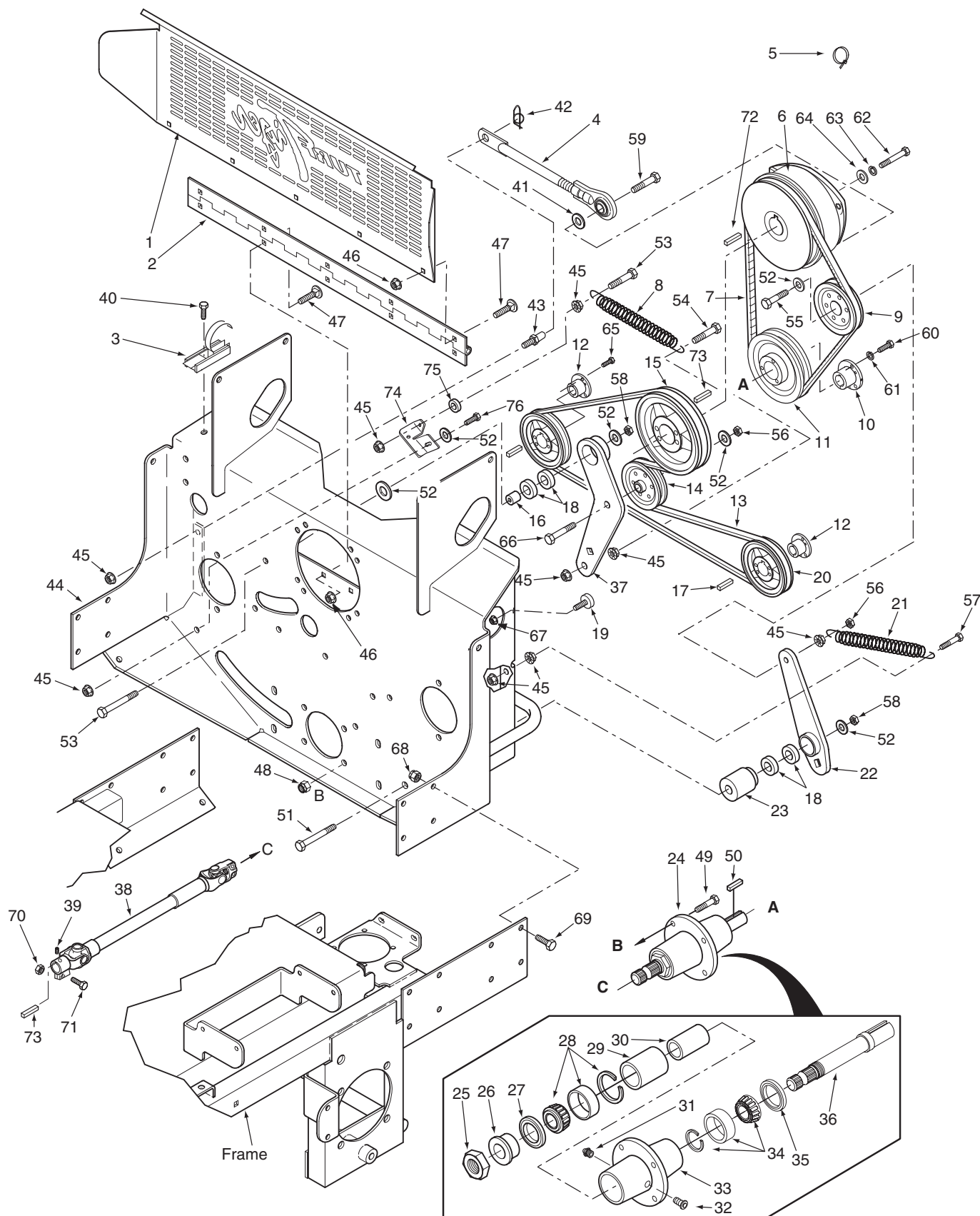


STT 2007 FOLD ROPS

STT ROLL-OVER PROTECTION SYSTEM - WITH SUSPENSION SEAT

Ref. No.	Part No.	Description
1	9514	STT, ROPS Accessory (Incl. all items below)
2	04001-82	Bolt, Hex Hd. 1/2-13 x 4-1/2"
3	04021-19	Nut, Center Lock 1/2-13
4	04001-178	Bolt, Hex Hd. 7/16-20 x 1"
5	04040-11	Flatwasher, 7/16 (.500 x 1.25 x .083")
6	483594	Retractable Seat Belt
7	04001-45	Bolt, Hex Hd. 3/8-16 x 2"
8	04041-07	Flatwasher, 3/8 (.391 x .938 x .105")
9	43606	Sleeve, Seat Base Mounting
10	04021-09	Nut, Elastic Stop 3/8-16
11	04001-09	Bolt, Hex Hd. 5/16-18 x 1"
12	461968	Bracket, Seat Hold Down w/Decal
13	424193	Spacer, Seat Hold Down
14	04019-03	Nut, Serr. Flng. 5/16-18
15	04040-13	Flatwasher, 1/2 (.562 x 1.375 x .109")
16	04001-145	Bolt, Hex Hd. 1/2-13 x 3-1/2"
17	04021-19	Nut, Center Lock 1/2-13
18	424407	Bracket, Stop
19	483262	Pin
20	481625-03	Thumb Screw, 5/16-18 NC x 3/4"
21	04062-06	Hair Pin, Cotter
22	483265	Clamp

DECK DRIVE COMPONENTS

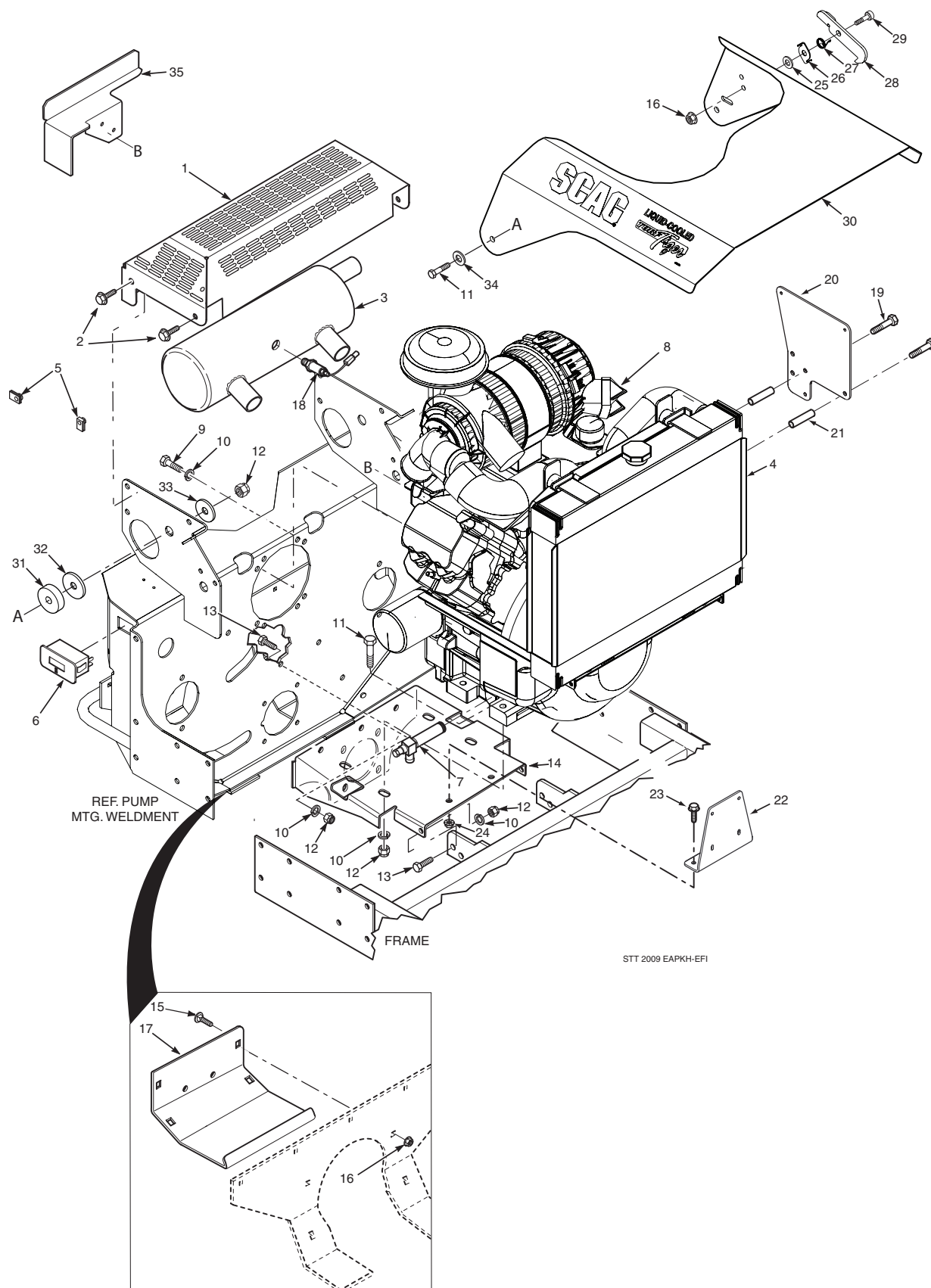


STT 2005 DDC

DECK DRIVE COMPONENTS

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	423925	Belt Guard, Rear	46	04019-02	Nut, Serr. Flng. 1/4-20
2	481531	Hinge, Belt Guard	47	04003-07	Bolt, Carriage 1/4-20 x 1/2"
3	481309	Latch, Hood	48	04021-22	Nut, Elastic Stop 5/16-18 Grd. 8
4	482845	Rod Assembly, Clutch Anti-Rotation	49	04001-176	Bolt, Hex Hd. 5/16-18 x 1-3/4" Grd. 8
5	48030-09	Clamp, Cable	50	04063-06	Key, 1/4 x 1/4 x 1-1/2"
6	461661	Clutch, Ogura GT-3.5	51	04001-171	Bolt, Hex Hd. 3/8-16 x 4-1/2" Grd. 8 Black
7	482876	Belt, Deck Drive	52	04043-04	Washer, 3/8" Hardened
8	483088	Spring, Transmission Idler	53	04001-135	Bolt, Hex Hd. 3/8-16 x 1-3/4" Grd. 8 Black
9	48181	Pulley, Idler 5" Dia.	54	04001-136	Bolt, Hex Hd. 3/8-16 x 1-1/2" Grd. 8 Black
10	481536	Tapered Hub, 1" Bore	55	04001-170	Bolt, Hex Hd. 3/8-16 x 2-1/2" Grd. 8
11	482949	Pulley, 6.70" Tapered Bore	56	04021-05	Nut, Center Lock 3/8-16
12	481884	Tapered Hub, 17mm Bore	57	04001-136	Bolt, Hex Hd. 3/8-16 x 1-1/2" Grd. 8 Black
13	483678	Belt, Pump Drive	58	04021-09	Nut, Elastic Stop 3/8-16
14	483214	Pulley, Idler 4" Dia.	59	04001-45	Bolt, Hex Hd. 3/8-16 x 2"
15	483675	Pulley, 5.367" Dia. - 1.125" Bore	60	04001-109	Bolt, Hex Hd. 1/4-20 x 1-3/8"
16	43631	Spacer, Idler Bearing	61	04030-02	Lockwasher, 1/4" Spring
17	04063-14	Key, 5.0 x 5.0 x 25mm	62	04001-101	Bolt, Hex Hd. 7/16-20 x 2-1/2" UNF
18	48224	Ball Bearing	63	04030-05	Lockwasher, 7/16" Spring
19	481284	Bumper, Rubber	64	04041-28	Flatwasher, 7/16 (.469 x 1.75 x .25")
20	482744	Pulley, 5.75" O.D.	65	04001-172	Bolt, Hex Hd. 1/4-20 x 1" Grd. 8
21	482667	Spring, PTO	66	04001-21	Bolt, Hex Hd. 3/8-16 x 1-3/4"
22	461609	Idler Arm Weldment, PTO Drive	67	04019-03	Nut, Serr. Flng. 5/16-18
23	43632	Pivot, Idler PTO	68	04021-09	Nut, Elastic Stop 3/8-16
24	461697	Spindle Assembly, Deck Drive	69	04001-19	Bolt, Hex Hd. 3/8-16 x 1"
25	481035	Nut, 1.06-18 Thread	70	04021-05	Nut, Center Lock 3/8-16
26	43297	Spindle Bushing, Bottom	71	04001-21	Bolt, Hex Hd. 3/8-16 x 1-3/4"
27	481025	Seal, 2.0" O.D. x 1.625" Bore	72	04063-02	Key, 1/4 x 1/4 x 2-1/4"
28	481022	Roller Bearing Tapered	73	04063-20	Key, 1/4 x 1/4 x 1"
29	43312	Spacer, Outside	74	424138	Bracket
30	43296	Spacer, Inside	75	43063	Spacer
31	48114-04	Grease Fitting, 1/4-28	76	04001-19	Bolt, Hex Hd. 3/8-16 x 1"
32	48677	Relief Fitting			
33	43644	Spindle Housing			
34	481022	Roller Bearing Tapered			
35	481024	Seal, 2.0" O.D. x 1.5" Bore			
36	43534	Shaft, Deck Drive			
37	461608	Idler Arm Weldment, Pump Drive			
38	482438	Driveshaft (Liquid-Cooled Engine)			
39	04012-08	Set Screw, 3/8-16 x 3/4" Torx Socket			
40	04011-11	Screw, #10-32 x .56			
41	04041-07	Flatwasher, 3/8 (.391 x .938 x .105")			
42	04069-01	Pin, Rue Cotter 3/8" Dia.			
43	43507	Stud, Anti Rotation			
44	461801	Pump Mounting Plate Weld. (Liquid-Cooled)			
45	04019-04	Nut, Serr. Flng. 3/8-16			

ENGINE & ATTACHING PARTS - 31HP-EFI KOHLER

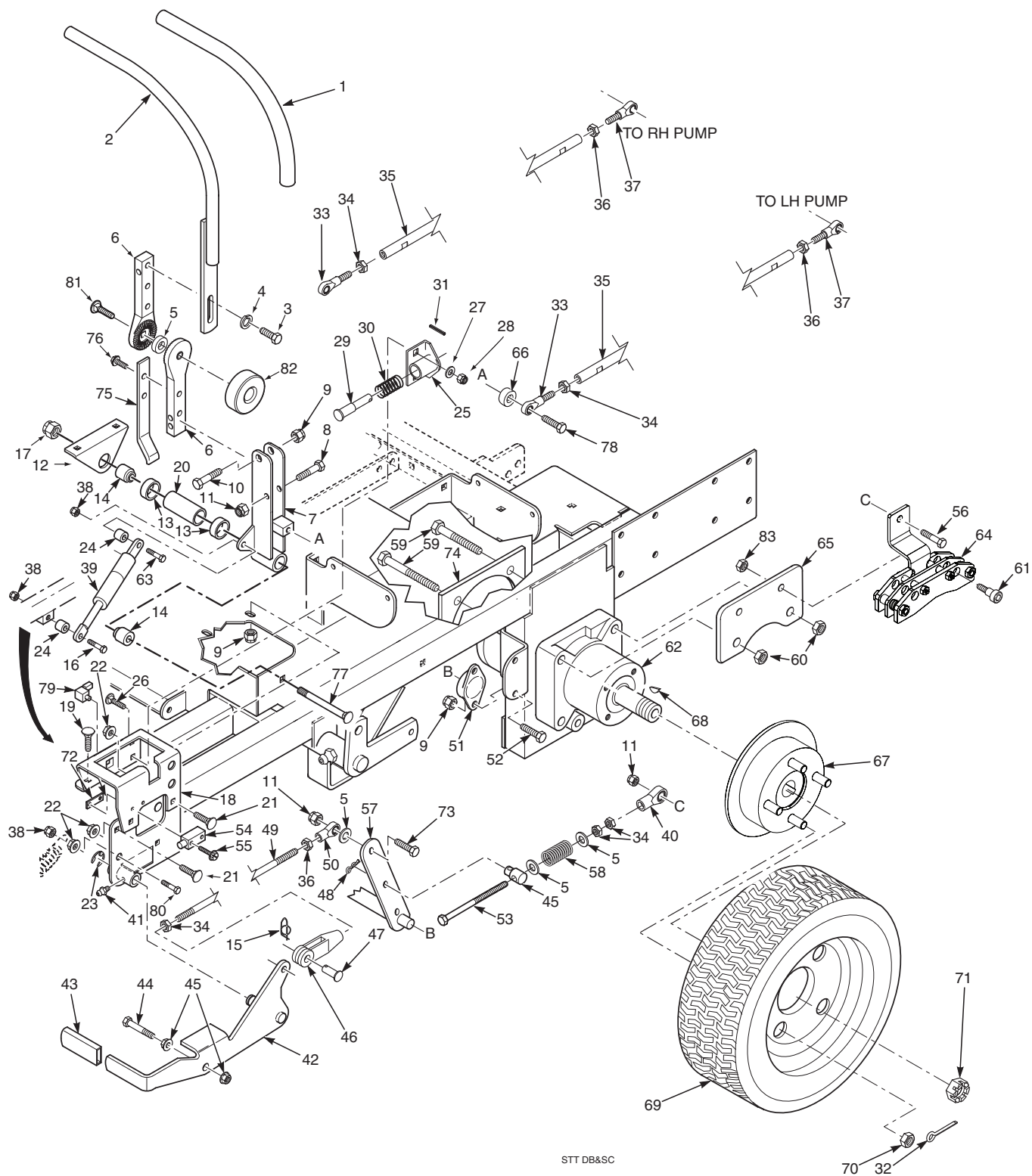


ENGINE & ATTACHING PARTS - 31HP-EFI KOHLER

Ref. No.	Part No.	Description
1	424910	Muffler Guard (Kohler)
2	04017-05	Screw, Hex Serr. Flng. 1/4-20 x 3/4"
3	**	Muffler (Available only through Kohler)
4	451997	Screen Weldment, Radiator (Kohler)
5	04110-01	U-Nut, 1/4-20
6	483355	Hour Meter
7	482510	Oil Drain Extension
8	483687	** Engine, Kohler 31HP-EFI Aegis (Available only through Kohler)
9	04001-19	Bolt, Hex Hd. 3/8-16 x 1"
10	04030-04	Lockwasher, 3/8" Spring
11	04001-21	Bolt, Hex Hd. 3/8-16 x 1-3/4"
12	04021-09	Nut, Hex Elastic Stop 3/8-16
13	04001-32	Bolt, Hex Hd. 3/8-16 x 1-1/4"
14	451454	Plate, Engine Mounting
15	04003-12	Bolt, Carriage 5/16-18 x 3/4"
16	04019-03	Nut, Hex Serr. Flng. 5/16-18
17	424691	Rear Cover
18	**	o2 Sensor (Available through Kohler Only)
19	04002-23	Bolt, Hex Hd. M6-1.0 X 90mm
20	424888	Mounting Bracket, ECU Kohler EFI
21	43774	Spacer, ECU Mounting
22	424889	Mounting Bracket, Fuel Pump Kohler EFI
23	04017-05	Bolt, Hex Hd. 1/4-20 x 3/4"
24	04019-02	Nut, Serr. Flng. 1/4-20
25	04040-05	Flatwasher, 3/8-.406 x .812 x .065
26	424634	Lock, Hood Latch
27	483507	Spring, Hood Latch
28	424633	Latch, Hood
29	04009-07	Bolt, Shoulder 5/16-18 x 1/2"
30	462157	Hood Assembly w/Decals (Incl. 16, 25, 26, 27, 28, 29)
31	43740	Spacer, Hood
32	483471	Disc, Anti-Friction
33	04041-11	Flatwasher, 3/8-.406 x 1.50 x 7 Gauge
34	04041-07	Flatwasher, 3/8-.391 x .938 x .105
35	425141	Heatshield, Throttle Cable

** Available through the individual engine manufacturer.

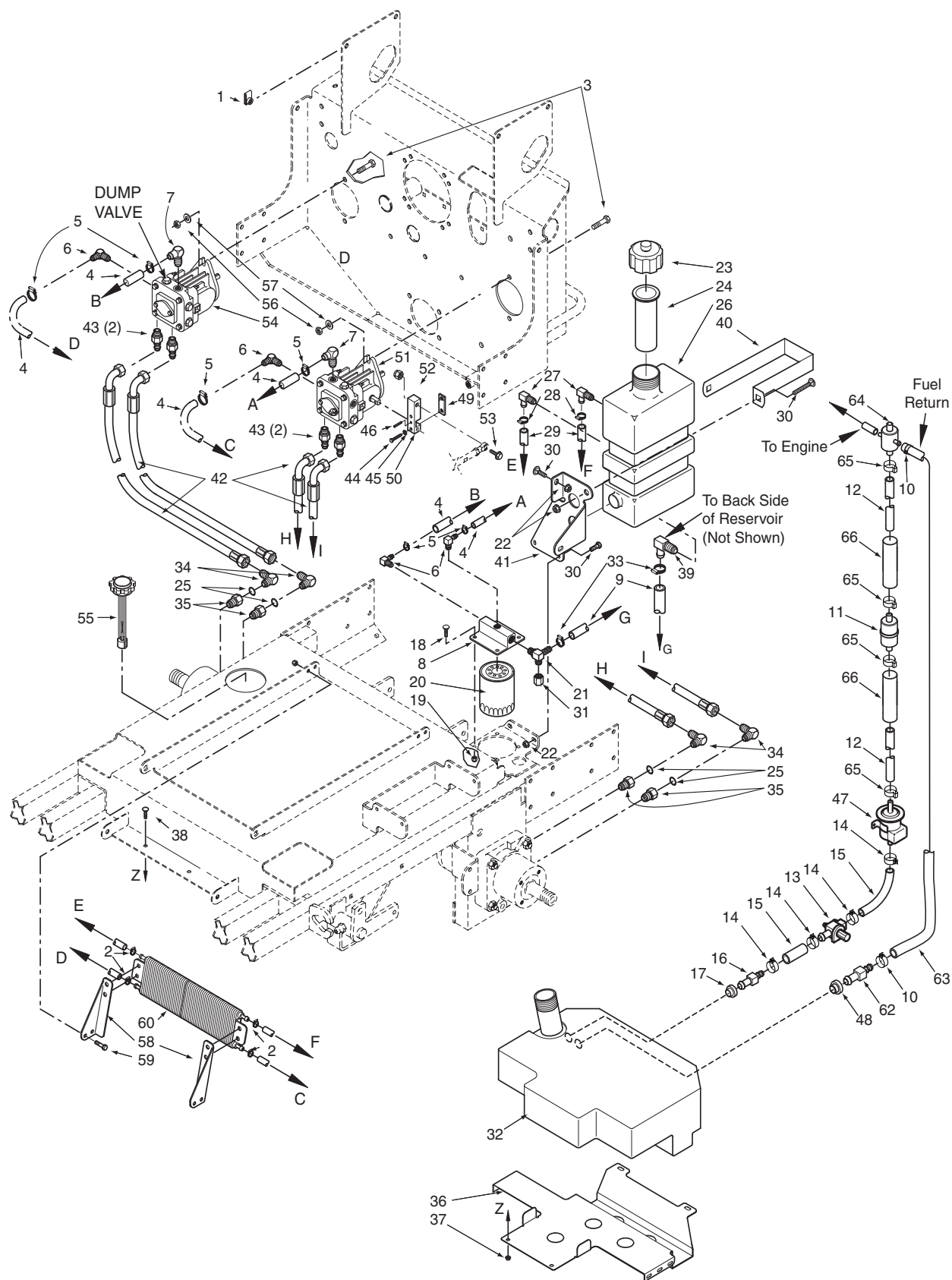
BRAKE AND STEERING COMPONENTS



BRAKE AND STEERING COMPONENTS

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	482340	Grip, Handle Bar	46	48343-04	Clevis, Traction Control
2	461914	Handle Bar, LH (Incl. item 1)	47	04064-02	Pin, Clevis 3/8-16 x 1-1/16"
	461923	Handle Bar, RH (Incl. item 1)	48	04062-01	Hair Pin Cotter
3	04001-09	Bolt, Hex Hd. 5/16-18 x 1"	49	04004-34	Rod, Parking Brake
4	04030-03	Lockwasher, 5/16"	50	48544	Rod End, LH Thread
5	483250	Rubber Spacer	51	482061	Bushing, Self Align
6	483238	Bar, Control Lever	52	04001-08	Bolt, Hex Hd. 5/16-18 x 3/4"
7	451483	Control Lever Weldment, LH	53	04001-192	Bolt, Hex Hd 3/8-24 x 5-1/2"
	451484	Control Lever Weldment, RH	54	481637	Switch
8	04001-17	Bolt, Hex Hd. 5/16-18 x 2"	55	04010-12	Screw, Hex Sltd. Wshr. Hd. #10 32 x 3/4"
9	04021-10	Nut, Hex Elastic Stop 5/16-18	56	451970	Brake Linkage, LH
10	04001-45	Bolt, Hex Hd. 3/8-16 x 2"		451971	Brake Linkage, RH
11	04021-09	Nut, Hex Elastic Stop	57	45953	Bellcrank, Brake Actuator
12	423488	Mount, Control Linkage	58	48807	Spring
13	48224	Ball Bearings, Neutral Return	59	04001-190	Bolt, Hex Hd. 1/2-13 x 2-3/4" (upper)
14	43607	Spacer		04001-52	Bolt, Hex Hd. 1/2-13 x 2-1/2" (lower)
15	04069-01	Pin, Rue Cotter 3/8" Dia.	60	04021-19	Locknut, Hex 1/2-13 Center Lock
16	04001-13	Bolt, Hex Hd., 5/16-18 x 2.75 Zinc	61	04009-13	Bolt, Shoulder 3/8-16 x 2-1/2"
17	04021-13	Nut, Hex Elastic Stop 5/8-11	62	484108	Wheel Motor, Parker
18	461601	Bracket, Control Lever LH	63	04001-12	Bolt, Hex Hd., 5/16-18 x 1.75", Zinc
	461602	Bracket, Control Lever RH	64	483701	Brake Caliper
19	04003-04	Bolt, Carriage 5/16-18 x 1"	65	424894	Mounting Bracket, Brake
20	43600	Spacer, Bearing	66	43063	Spacer
21	04003-12	Bolt, Carriage 5/16-18 x 3/4"	67	461438	Wheel Hub/Disk Brake Assembly
22	04019-03	Nut, Hex Serr. Flng. 5/16-18	68	04063-25	Key, Woodruff 5/16 x 1"
23	04050-01	Ring, Retaining 5/8" External "E"	69	481850	Wheel Assembly 24 x 12-12 Turf Master
24	43602	Spacer		481851	Rim w/Valve Stem
25	45918	Bracket, Neutral Return		481852	Tire, 24 x 12-12 Turf Master
26	04003-02	Bolt, Carriage 1/4-20 x 3/4"	70	04028-02	Lug Nut, 1/2-20
27	04040-14	Flatwasher, 1/4" (.312 x .750 x .065")	71	48680	Nut, Hex Castle
28	04021-08	Nut, Hex Elastic Stop 1/4-20	72	422373	Threaded Plate
29	43477	Pin, Retaining Spring	73	04001-20	Bolt, Hex Hd. 3/8-16 x 1-1/2"
30	481389	Spring	74	423279	Plate Weldment, Motor Backing
31	04060-01	Roll Pin, Spring 5/32 x 3/4"	75	423491	Actuator Switch
32	04061-06	Pin, Cotter 9/16 x 1-1/2"	76	04017-16	Bolt, Hex Serr. Flng. 5/16-18 x 3/4"
33	482586	Rod End, Male 3/8-24 RH Thread	77	04003-36	Bolt, Carriage 3/8-16 x 4-3/4"
34	04020-25	Nut, 3/8-24 RH Thread	78	04001-19	Bolt, Hex Hd. 3/8-16 x 1"
35	43624	Tube, Control Link Liquid-Cooled Engine	79	481638	Switch
36	04020-26	Nut, Hex 3/8-24 LH Thread	80	04001-168	Bolt, Hex Hd. 3/8-16 x 1-1/4" Grd. 8
37	482585	Rod End, Male 3/8-24 LH Thread	81	04003-38	Bolt, Carriage 5/16-18 x 1-1/2"
38	04021-10	Locknut, 5/16-18, Elastic Stop	82	483269	Knob
39	482794	Gas Damper	83	04021-05	Nut, Center Lock 3/8-16
40	482330	Rod End, 3/8-24 RH Female			
41	48114-04	Grease Fitting			
42	461082	Lever, Parking Brake (Incl. 43)			
43	481548	Grip, Parking Brake			
44	04001-22	Bolt, Hex Hd. 3/8-16 x 2-3/4"			
45	43773	Swivel Joint			

FUEL AND HYDRAULIC SYSTEM - KOHLER 31EFI



2008 STT F&HS-EFI.eps

FUEL AND HYDRAULIC SYSTEM - KOHLER 31EFI

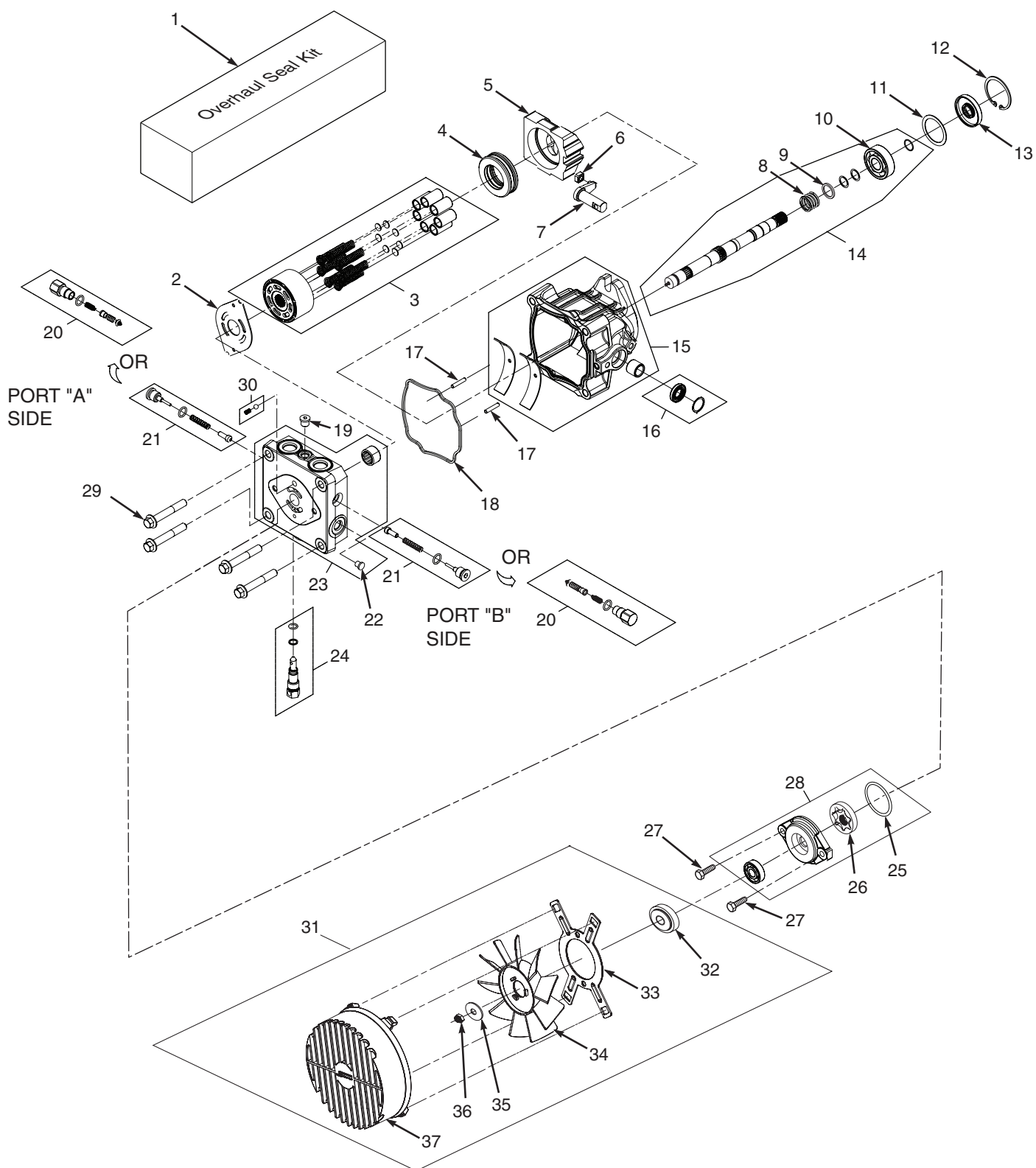
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	04110-01	U-Nut 1/4-20	46	04060-09	Roll Pin, Spring 3/16 x 3/4"
2	48136-13	Hose Clamp, 0.69" Dia.	47	**	Fuel Pump, Kohler 31EFI (p/n 24 393 52)
3	04001-03	Bolt, Hex Hd. 1/4-20 x 2.0"	48	48309	Bushing
4	48811	*** Hose, 3/8" I.D. Pushlock	49	422694	Clamp Plate, Pump Control
5	48136-07	Clamp, Hose 1/2"	50	481793	Block, Pump Control
6	482266-01	Elbow, 90 Degree - 9/16" O-ring x 3/8" Hose	51	483101	Pump, Left Hand, BDP-16A
7	482266-02	Elbow, 90 Degree - 3/4" O-ring x 3/8" Hose	52	04021-09	Nut, Hex, Elastic Stop 3/8-16
8	482417	Oil Filter Base	53	04001-32	Bolt, Hex Hd., 3/8-16 x 1-1/4
9	482606	Hose Assy., 1/2" I.D. (Tank to Filter Base)	54	483100	Pump, Right Hand, BDP 16A
10	48059-01	Clamp, Fuel Hose 1/4" Hose I.D.	55	482497	Cap, Fuel Tank w/Gauge
11	**	Fuel Filter, Kohler (p/n 24 050 03)	56	04021-09	Nut, Hex Elastic Stop 3/8-16
12	*483691	*** Fuel Hose, 5/16" I.D. Non-Perm.	57	04043-04	Flatwasher, 3/8" (.391 x .938 x .105") Grd. 8
13	481308	Valve, Shutoff	58	423524	Mounting Bracket - LH, Oil Cooler
14	48059-04	Clamp, Fuel Hose 5/16" Hose I.D.		423525	Mounting Bracket - RH, Oil Cooler
15	483620	*** Fuel Hose, 5/16" I.D. Non-Perm.	59	04001-08	Bolt, Hex Hd. 5/16-18 x 3/4"
16	483749	Hose Fitting w/Screen	60	482505	Cooler, Oil
17	48309	Bushing	61	48136-13	Clamp, .69" Dia.
18	04001-09	Bolt, Hex Hd. 5/16-18 x 1.0" Zinc	62	482703	Fitting, Hose
19	04019-03	Nut, Serr. Flng. 5/16-18	63	483617	*** Hose, 1/4" Fuel Line Non-Perm.
20	48758	Oil Filter	64	**	Regulator Assembly, Fuel Pressure (p/n 24 403 16)
21	482483	Tee, 3/4 O-ring x JIC x 1/2" Hose	65	483699	Fuel Clamp, 5/16" Oetiker
22	04021-08	Nut, Hex Elastic Stop 1/4-20	66	482839-01	Shield, Flexible
23	481164	Cap, Hydraulic Tank			
24	481507	Insert, Filler Neck			
25	48603-02	O-Ring			
26	461451	Oil Reservoir Assembly (Incl. 24, 27, & 39)			
27	482572	Elbow, 90 Degree .38" Hose			
	482571	Bushing, .56" Dia. Viton			
28	48136-13	Hose Clamp, 0.69" Dia.			
29	48811	*** Hose, 3/8" I.D., Pushlock			
30	04010-10	Screw, Phillips Head, 1/4-20			
31	48571-02	Cap			
32	461586	Fuel Tank Assembly (Incl. 16, 17, 65, & 66)			
33	48136-05	Clamp, Hose			
34	48350-02	Elbow, 90 Degree, 7/8-14 THD			
35	48938-02	Bushing, 7/8-14 JIC x 3/4-16 O-Ring			
36	423701	Support Bracket, Fuel Tank			
37	04019-03	Nut, 5/16-18 Serr. Flng.			
38	04003-02	Bolt, Carriage 1/4-20 x 3/4"			
39	482574	Elbow, 90 Degree			
	482573	Bushing, .78" Dia. Viton			
40	423513	Strap, Hydraulic Tank			
41	423485	Support Bracket, Hydraulic Tank			
42	481611	Hose Assembly, Pump			
43	48572-04	Union, 3/4-16 JIC x 3/4-16 O-ring			
44	04001-59	Bolt, Hex Hd., 1/4-20 x 1-14"			
45	04030-02	Lockwasher, 1/4" Spring			

* High Pressure Fuel Line. MUST only be replaced with the part number listed.

** Available through the individual engine manufacturer.

*** Order by Inch.

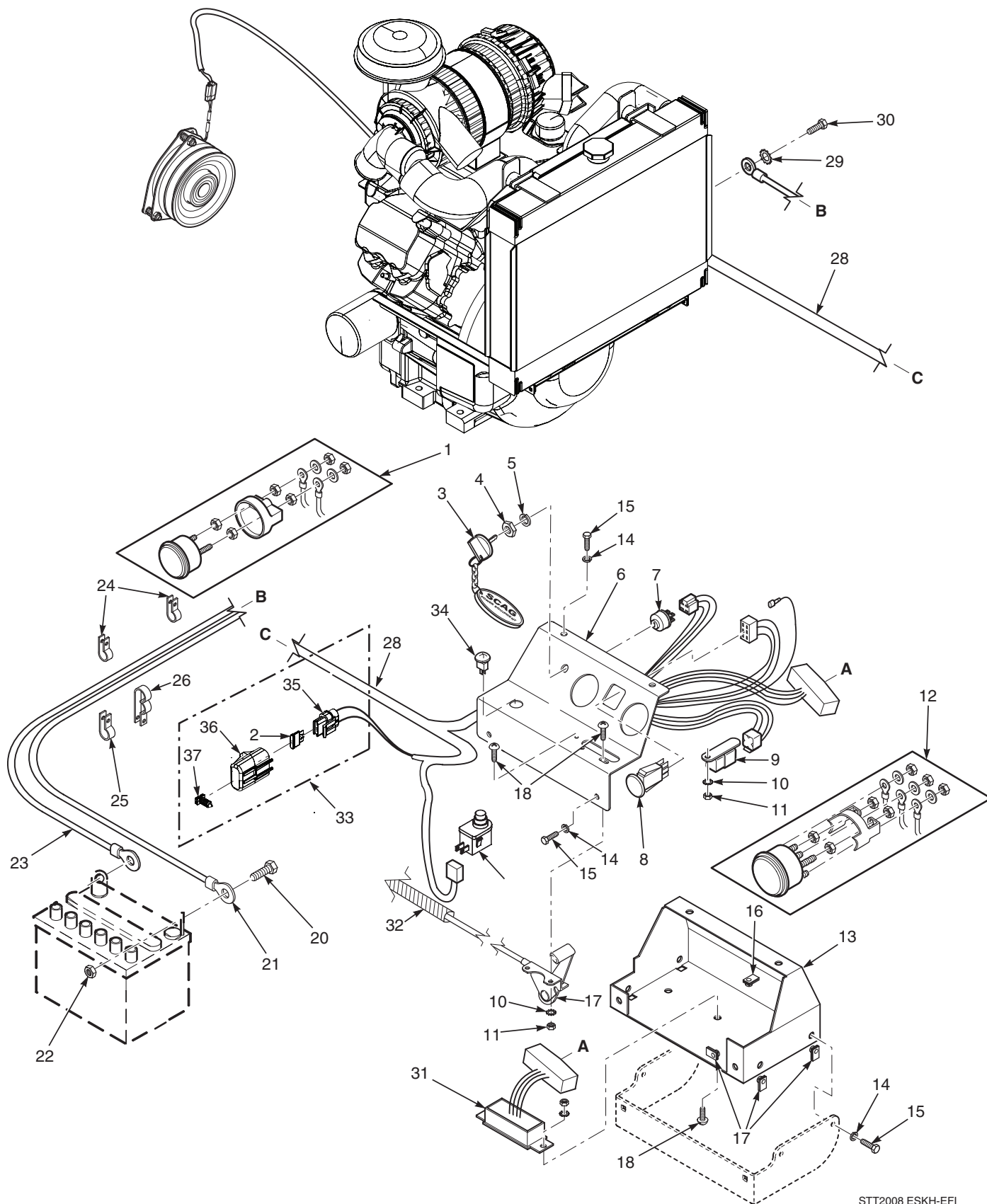
BDP-16A HYDRAULIC PUMP ASSEMBLY WITH COOLING FAN



BDP-16A HYDRAULIC PUMP ASSEMBLY WITH COOLING FAN

Ref. No.	Part No.	Description
1	HG70740	Overhaul Seal Kit
2	HG51455	Valve Plate
3	HG70735	Cylinder Block Kit - 16cc
4	HG51462	Thrust Ball Bearing Assembly
5	HG51436	Variable Swashplate
6	HG2000015	Slot Guide
7	HG2000014	Trunnion Arm
8	HG2000025	Block Spring
9	HG2000024	Block Thrust Washer
10	HG2000032	Shaft Ball Bearing
11	HG2000023	Spacer
12	HG2000038	Retaining Ring
13	HG51092	Seal
14	HG70578	Kit, Pump Shaft (keyed thru taper)
15	HG70738	Housing Kit
16	HG70739	Trunnion Seal Kit
17	HG50641	Pin
18	HG51437	O-Ring
19	HG9005110-7500	Straight Thread Plug
20	HG70743	Shock Valve Kit (.031" Orifice)
21	HG70742	Shock Valve Kit (.024" Orifice)
22	HG9005200-7500	Straight Thread Plug
23	HG70736	End Cap Kit
24	HG2513030	Bypass Valve Kit
25	HG9004100-1430	O-Ring
26	HG50406	Gerotor Assembly (.19 cu.in./rev.)
27	HG50173	Socket Head Cap Screw (M8 x 1.25-25mm)
28	HG70924	Charge Pump Kit (.19 STD. Splined)
29	HG51457	Hex Screw, Flng. Head (M10 x 1.50-65mm)
30	HG70402	Charge Relief Kit
31	HG71287	Fan Kit (Incl. 32, 33, 34, 35, 36, & 37)
32	HG51348	Hub
33	HG52016	Bracket, Shroud
34	HG52014	Fan
35	HG51348	Washer
36	HG44809	Nut
37	HG52059	Shroud

ELECTRICAL SYSTEM (31HP-EFI KOHLER)



STT2008 ESKH-EFI

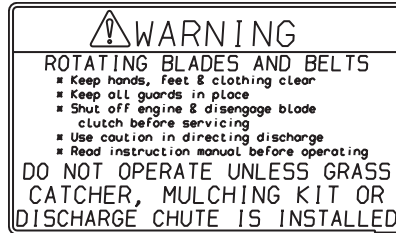
ELECTRICAL SYSTEM (31HP-EFI KOHLER)

Ref. No.	Part No.	Description
1	481184	Volt Meter
2	48298	Fuse, 20 AMP
3	462069	Key, Assembly w/Fob
4	48017-04	Nut, Hex 5/8-32
5	48017-03	Lockwasher, 5/8" Internal
6	461916	Instrument Panel, Top w/Decals
7	48798	Key Switch
8	483957	Switch, PTO - 10 Amp
9	48788	Relay
10	04031-01	Lockwasher, #10 External Tooth
11	04020-01	Nut, Hex #10-32
12	481183	Water Temp. Gauge
13	451879	Base, Instrument Panel
14	04030-02	Lockwasher, 1/4"
15	04001-01	Bolt, Hex Hd. 1/4-20 x 3/4"
16	04110-01	U-Nut, 1/4-20
17	481662	Throttle Controls
18	04010-01	Screw, Phillips Washer Head #10-32 x 1/2"
19	481638	Switch, Interlock-Seat
20	04001-44	Bolt, Hex Hd. 1/4-20 x 1/2"
21	48029-06	Cable, Battery - Red
22	04020-02	Nut, Hex 1/4-20
23	48029-11	Cable, Battery - Black
24	48030-09	Clamp, Cable 1/2" I.D.
25	48136-05	Clamp, Cable 3/4" I.D.
26	48030-11	Clamp, Cable
27	481670	Sending Unit, Water Temp.
28	483688	Wire Harness, STT Liquid-Cooled Electronic Fuel Injection (EFI)
29	04031-03	Lockwasher, 5/16" External Tooth
30	04002-12	Bolt, Hex Hd. M8-1.25 x 20mm
31	483029	Electronic Module
32	481945-01	Heatshield, Flexible
33	483641	Single Fuse Assembly, Sealed (Incl. 2, 35, 36, & 37)
34	481182	Indicator Light, Check Engine
35	483629	Fuse Holder
36	483643	Cover, Sealed Single
37	482588	Clip, Wire

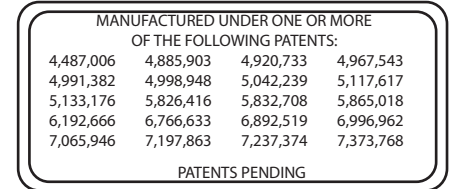
REPLACEMENT DECALS AND INFORMATION PLATES



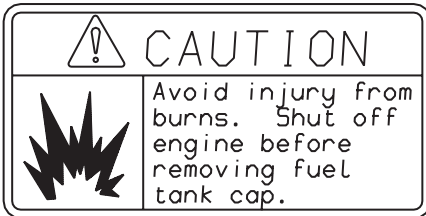
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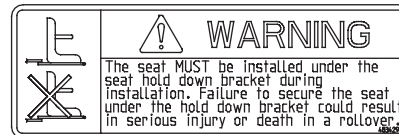


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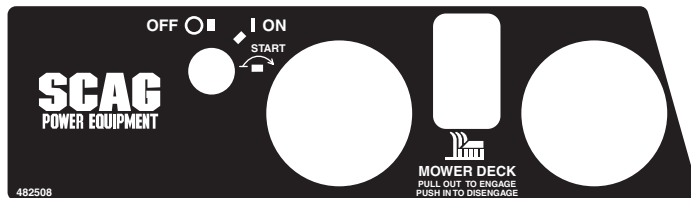
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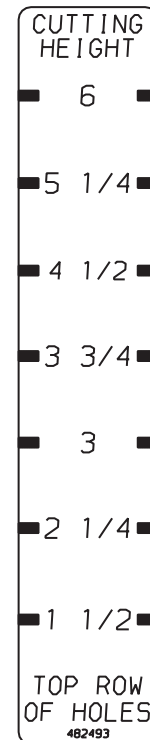


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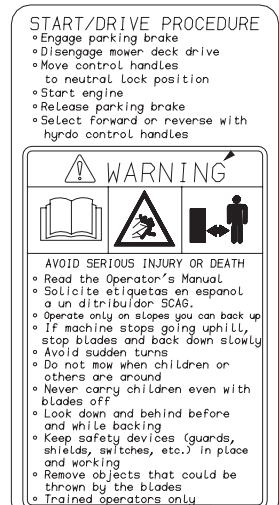
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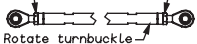


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REPLACEMENT DECALS AND INFORMATION PLATES

Ref. No.	Part No.	Description
1	483192	Decal, Danger-Spinning Blades
2	483406	Decal, Warning-Rotating Blades
3	483201	Decal, 61 Velocity Plus
	483693	Decal, 72 Velocity Plus
4	483397	Decal, Fuel Tank
5	483044	Decal, Patents
6	481568	Decal, Traction Control
7	481971	Decal, Heavy Duty Commercial
8	48404	Decal, Metalcraft-Made In USA
9	483402	Decal, Belt Cover
10	483429	Decal, Warning Seat Hold Down
11	482508	Decal, Instrument Panel-Upper
12	483633	Decal, Seat Replacement
13	482565	Decal, Cutting Height - Lower
14	483444	Decal, Start/Drive Procedure
15	482710	Decal, Seat Support
16	482577	Decal, Turf Tiger
17	483229	Decal, Turf Tiger
18	481664	Decal, Stripes-RH
19	481663	Decal, Stripes-LH
20	481694	Decal, Tiger
21	483405	Decal, Warning
22	482493	Decal, Cutting Height - Upper
23	482984	Decal, Instrument Panel - Lower
24	483158	Decal, ROPS
25	483425	Decal, ROPS
**	461982	Spanish Decal Kit, STT (not shown)

IMPORTANT ADJUSTMENT PROCEDURES
READ OPERATOR'S MANUAL FOR MORE DETAILS
 Check tire pressure - (Drive tires-12 psi, Caster tires-25 psi)

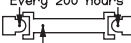
NEUTRAL ADJUSTMENT

 Loosen jam nuts
 Rotate turnbuckle
 With an operator in the seat, engine running, control levers in neutral and the parking brake disengaged - adjust control linkage. Loosen jam nuts. If wheel rotates forward, adjust turnbuckle CCW. If wheel rotates rearward, adjust turnbuckle CW. Adjust until drive wheel stops turning. Tighten jam nuts. Repeat for opposite side.

TRACKING ADJUSTMENT
 If the machine pulls to the right, adjust LH control linkage CCW to slow left wheel. If the machine pulls to the left, adjust RH control linkage CCW to slow right wheel. Readjust neutral if necessary.

FREE WHEEL OPERATION
 To move machine without running the engine, rotate both dump valves located at the LH side of the pumps CCW 1/2 turn to "freewheel" positions. Return dump valves to original position to operate the mower. Tighten to 7-10 ft-lbs.

HYDRAULIC FLUID LEVEL
 Check hydraulic fluid level while fluid is cool. Fluid level should be 3" below top of filler neck. Fill with SAE 20W50 motor oil only.

IMPORTANT
 Do not overfill. Room for hot fluid expansion must be allowed or resulting expansion may cause leaks in the system.

IMPORTANT
DRIVESHAFT MAINTENANCE
 Grease yokes 3-4 pumps Every 200 hours

 Grease spline 8-10 pumps Every 50 hours

482710

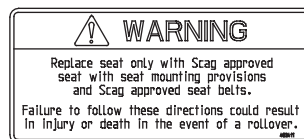
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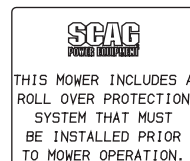


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SCAG

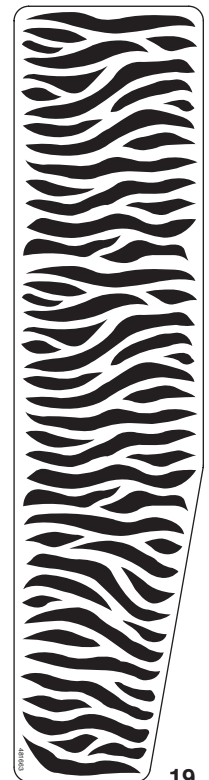
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ELECTRICAL SCHEMATIC (KOHLER 31HP - EFI)

