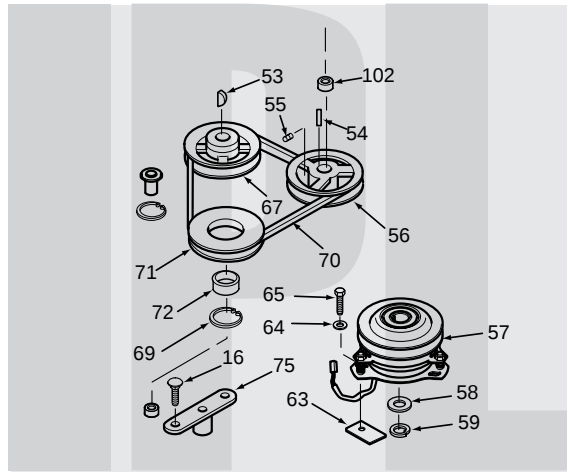


SCAG[®]

POWER EQUIPMENT



MODEL SW

ILLUSTRATED PARTS LIST

THIS MANUAL CONTAINS THE ILLUSTRATED PARTS LIST FOR MODELS:

SW32-15KA	with a serial number of	B1000001 to B1099999
SW32-15KAI	with a serial number of	C0400001 to C0499999
SW36A-15KH	with a serial number of	B1200001 to B1299999
SW36A-16KAI	with a serial number of	C0500001 to C0599999
SW48V-15KA	with a serial number of	B1300001 to B1399999
SW48V-15KH	with a serial number of	B1400001 to B1499999
SW48V-16KAI	with a serial number of	C0600001 to C0699999
SW48V-17KAI	with a serial number of	C0700001 to C0799999
SW52V-17KAI	with a serial number of	C0800001 to C0899999
SW52V-18HN	with a serial number of	B1700001 to B1799999
SW52V-18KH	with a serial number of	B1800001 to B1899999

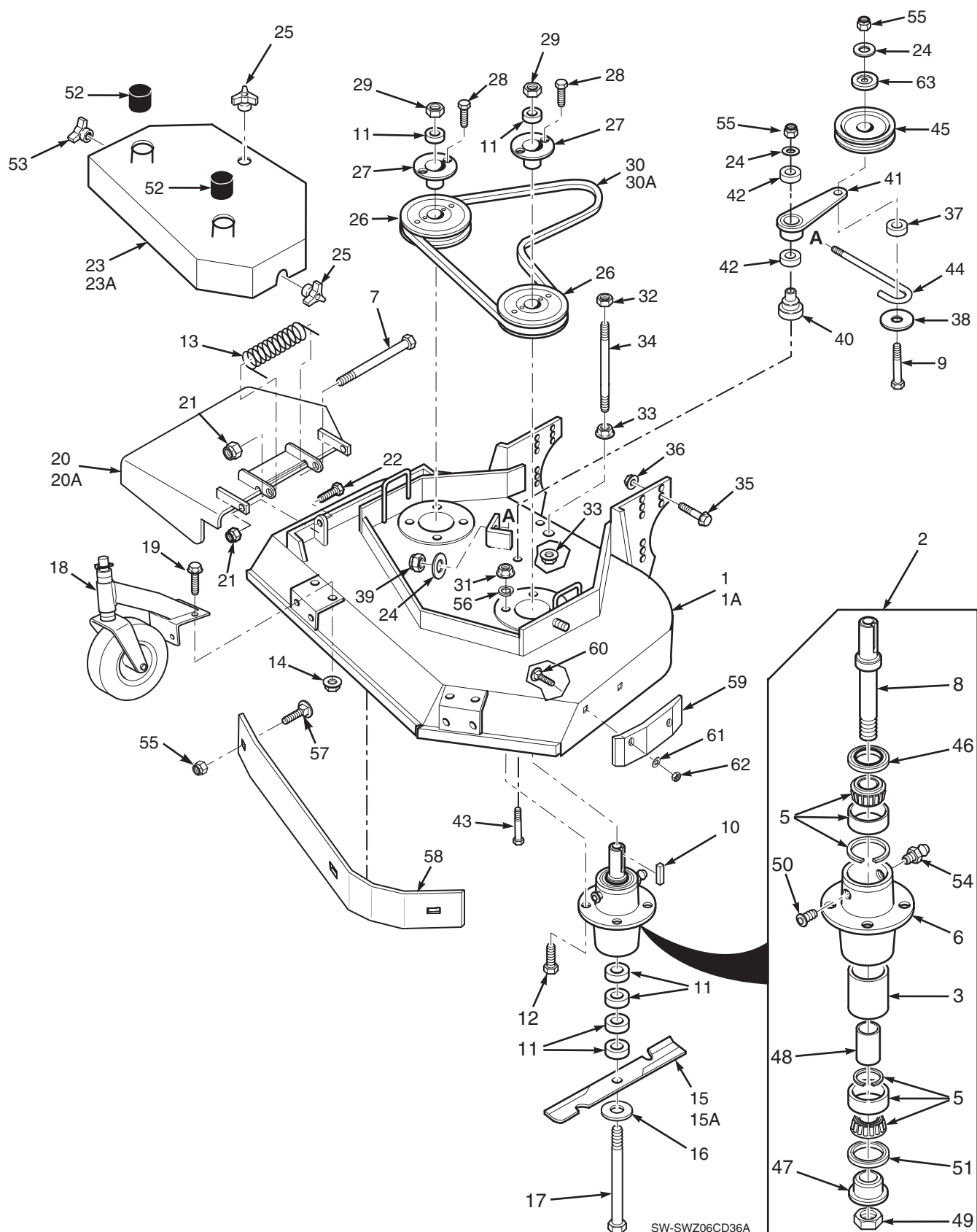


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MODEL SW

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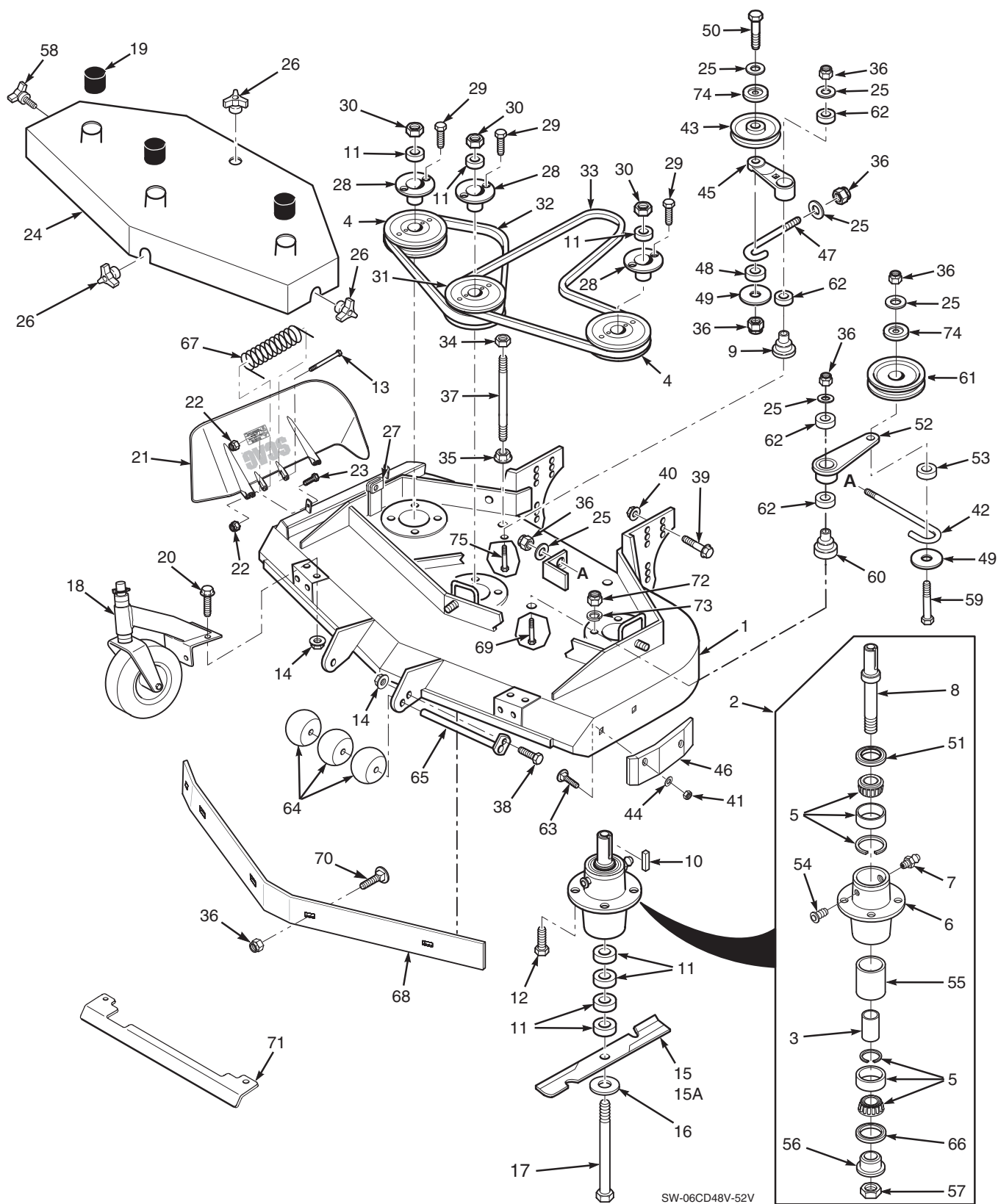
32" & 36A" CUTTER DECKS



32" & 36A" CUTTER DECKS

Ref. Part				Ref. Part			
No.	Number	Description	32 36A	No.	Number	Description	32 36A
1	461847	Cutter Deck (Includes Decals)	x	42	48224	Bearing	x x
1A	461848	Cutter Deck (Includes Decals)	x	43	04001-62	Cpssrw, 3/8-16 x 3-1/4" Hex Head	x x
2	461663	Cutter Spindle Assy.	x x	44	44078	J-Hook	x x
3	43312	Spacer, Outside	x x	45	483215	Idler Pulley, Belt Clutch	x x
5	481022	Tapered Bearing (Two)	x x	46	481024	Seal, Cutter Spindle	x x
6	43644	Spindle Housing	x x	47	43297	Spindle Bushing	x x
7	04001-154	Bolt, 5/16-18 x 4-3/4" Hex Head	x x	48	43296	Spacer, Inside	x x
8	43589	Spindle Shaft	x x	49	481035	Nut, 1.06-18	x x
9	04001-51	Bolt, 3/8-16 x 3-3/4" Hex Head	x x	50	48677	Relief Fitting, Cutter Spindle	x x
10	04063-08	Key, 1/4 x 1/4 x 2"	x x	51	481025	Seal, Cutter Spindle	x x
11	43592	Spacer, Cutter Blade - Small	x x	52	48098	Spindle Shield	x x
12	04001-175	Bolt, 5/16-18 x 1-1/2" Hex Head Grade 8	x x	53	04029-04	Wing Nut, 3/8-16 (Small) RH side	x x
13	482245	Spring, Chute Return	x x	54	48114-04	Grease Fitting	x x
14	04019-03	Nut 5/16-18 Serrated Flange	x x	55	04021-09	Nut, Hex Elastic Stop 3/8-16	x x
15	481706	Cutter Blade, 16-1/2" Marbain	x	56	04030-03	Lock Washer, 5/16"	x x
15	481707	Cutter Blade, 18" Marbain	x	57	04003-23	Bolt, Carriage 3/8-16 x 1"	x x
15A	481710	Cutter Blade 16-1/2 Hi Lift Marbain	x	58	423783	Baffle Weldment	x
15A	481711	Cutter Blade, 18 Hi Lift Marbain	x	59	483174	Pad, Deck Wear	x x
16	04043-06	Flatwasher, 5/8 W	x x	60	04003-12	Bolt, Carriage 5/16-18 x 3/4"	x x
17	04001-41	Hex Hd. Bolt, 5/8-11 x 9-1/2"	x x	61	04040-04	Flatwasher, 5/16"	x x
18	461023	Caster Assembly	x x	62	04021-04	Hex Nut, 5/16-18 Center Locknut	x x
19	04017-16	Cpssrw, 5/16-18 x 3/4" Ser.Flg. Hex Head	x x	63	424367	Dust Shield	x x
20	461291	Discharge Chute	x				
20A	461295	Discharge Chute	x				
21	04021-10	Hex Nut, 5/16-18 Elastic Stop	x x				
22	04001-09	Hex Hd Bolt, 5/16-18 x 1"	x x				
23	461709	Belt Cover Assy (Includes Decal)	x				
23A	461413	Belt Cover Assy (Includes Decal)	x				
24	04043-04	Flat Washer, 3/8" Special	x x				
25	04029-03	Wing Nut, 3/8-16	x x				
26	482744	Pulley	x x				
27	48926	Tapered Hub	x x				
28	04001-172	Hex Hd. Bolt, 1/4-20 x 1"	x x				
29	04020-09	Hex Nut, 5/8-11	x x				
30	48278	Belt, Blade Drive	x				
30A	48204	Belt, Blade Drive	x				
31	04021-22	Elastic Stop Nut, 5/16-18 Grade 8	x x				
32	04021-05	Hex Nut, 3/8-16 Center Locknut	x x				
33	04019-04	Nut, 3/8-16 Serrated Flange	x x				
34	04004-02	Support, Belt Cover	x x				
35	04017-36	Cpssrw, 1/2-13 x 1" Ser.Flg. HH	x x				
36	04112-05	Nut, 1/2-13 Spiralock	x x				
37	43277	Spacer, J-Hook	x x				
38	04041-12	Flatwasher, 3/8 x 1-1/2 x 16 GA	x x				
39	04021-09	Elastic Stop Nut, 3/8-16	x x				
40	43681	Idler Pivot	x x				
41	461841	Idler Arm Assy. (Inc. 42)	x x				

48V, 52V" CUTTER DECKS

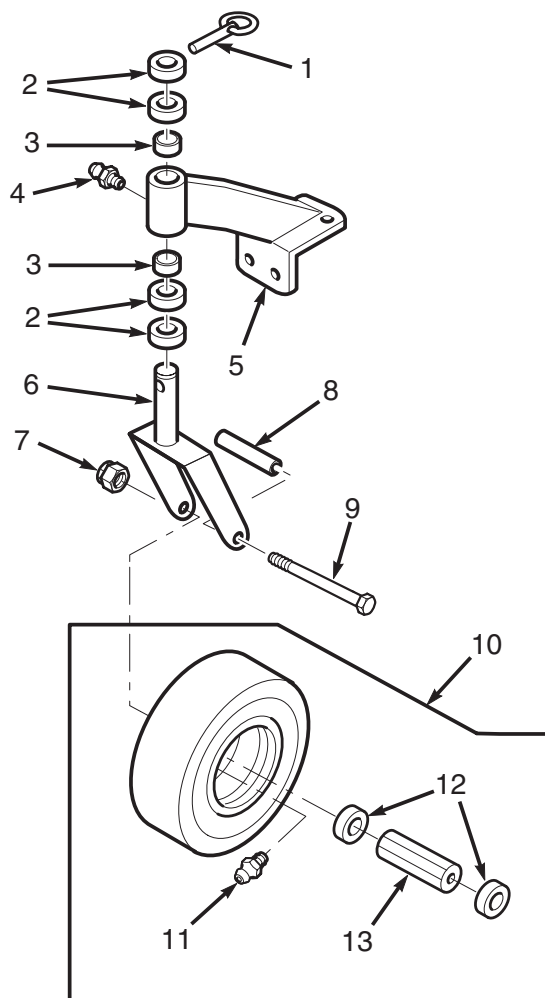


48V, 52V" CUTTER DECKS

Ref. Part No. No.	Description	48V	52V	Ref. Part No. No.	Description	48V	52V
1	461852 Cutter Deck (Includes decals)	x		36	04021-09 Nut, 3/8-16 Elastic Stop	x	x
	461855 Cutter Deck (Includes decals)		x	37	04004-02 Support, Belt Cover	x	x
2	461663 Spindle Assembly	x	x	38	04001-09 Bolt, 5/16-18 x 1" Hex Head	x	x
3	43296 Spacer, Inside	x	x	39	04017-36 Cpscrw, 1/2-13 x 1" Ser.Flg. HH	x	x
4	482744 Pulley	x	x	40	04112-05 Nut, 1/2-13 Spiralock	x	x
5	481022 Tapered Bearing (Two)	x	x	41	04021-04 Hex Nut, 5/16-18 Center Locknut	x	x
6	43644 Spindle Housing	x	x	42	44078 J-Hook, 48V	x	
7	48114-04 Grease Fitting Str. 5/16"	x	x		43028 J-Hook, 52V		x
8	43589 Spindle Shaft, Tapered Brng	x	x	43	48181 Idler Pulley, "V" Groove	x	x
9	43682 Idler Pivot	x	x	44	04040-04 Flatwasher, 5/16"	x	x
10	04063-08 Key, 1/4 x 1/4 x 2"	x	x	45	461091 Idler Arm Assy. (Includes 62)	x	x
11	43592 Spacer, Cutter Blade - Small	x	x	46	483176 Pad, Deck Wear	x	x
12	04001-175 Bolt, 5/16-18 x 1-1/2" Hex Head GR-8	x	x	47	43028 J-Rod, Idler Pulley	x	x
13	04001-154 Bolt, 5/16-18 x 4-3/4" Hex Head	x	x	48	43077 Spacer, J-Rod	x	x
14	04019-03 Serrated Flange Nut, 5/16-18	x	x	49	04041-12 Washer, 3/8 x 1-1/2 x 16 ga.	x	x
15	481706 Cutter Blade 16-1/2" Marbain	x		50	04001-31 Bolt, 3/8-16 x 2-1/2" Hex Head	x	x
15	481707 Cutter Blade 18" Marbain		x	51	481024 Seal, Cutter Spindle	x	x
15A	481710 Cutter Blade 16-1/2 High Lift Marbain	x		52	461841 Idler Arm Assy (Includes 62)	x	x
15A	481711 Cutter Blade 18 High Lift Marbain		x	53	43277 Spacer, J-Rod	x	x
16	04043-06 Flatwasher, 5/8" (.688 x 1.75 x .134)	x	x	54	48677 Reelief Fitting, Cutter Spindle	x	x
17	04001-41 Hex Head Bolt, 5/8-11 x 9-1/2"	x	x	55	43312 Spacer, Outside, Cutter Spindle	x	x
18	461023 Caster Assembly	x	x	56	43297 Spindle Bushing	x	x
19	48098 Spindle Shield	x	x	57	481035 Nut, Cutter Spindle	x	x
20	04017-16 Capscrew, 5/16-18 x 3/4"	x	x	58	481625-01 Knob, w/stud	x	x
21	461844 Discharge Chute 48V	x		59	04001-51 Bolt, 3/8-16 x 3-3/4" Hex Head	x	x
	461845 Discharge Chute 52V		x	60	43681 Idler Pivot	x	x
22	04021-10 Nut, 5/16-18 Elastic Elastic Stop	x	x	61	483215 Idler Pulley, Belt Clutch	x	x
23	04001-11 Bolt, 5/16-18 x 1-1/2" Hex Head	x	x	62	48224 Bearing	x	x
24	461866 Belt Cover (Includes decals)	x		63	04003-12 Bolt, Carriage 5/16-18 x 3/4"	x	x
	461867 Belt Cover (Includes decals)		x	64	482295 Guide Roller	x	x
25	04043-04 Flat Washer, 3/8" Special	x	x	65	45944 Roller Shaft	x	x
26	04029-03 Wing Nut, 3/8-16 (Large)	x	x	66	481025 Seal, Cutter Spindle	x	x
27	04110-03 U-Nut, 3/8-16	x	x	67	483185 Spring, Chute Return	x	x
28	48926 Tapered Hub	x	x	68	424173 Baffle Weldment 48V	x	
29	04001-172 Bolt, 1/4-20 x 1" Hex Head Grade 8	x	x		424174 Baffle Weldment 52V		x
30	04020-09 Nut, 5/8-11 Hex	x	x	69	04001-62 Bolt, 3/8-16 x 3-1/4" Hex Head	x	x
31	482748 Pulley, Double	x	x	70	04003-23 Bolt, Carriage 3/8-16 x 1"	x	x
32	48087 Belt, RH Blade Drive	x		71	423972 Heatshield	x	x
	48285 Belt, RH Blade Drive		x	72	04021-22 Nut, Hex Lock 5/16-18	x	x
33	48089 Belt, Blade Drive	x		73	04030-03 Lock Washer 5/16	x	x
	48286 Belt, Blade Drive		x	74	424367 Dust Shield	x	x
34	04021-05 Nut, 3/8-16, Nut Centerlock	x	x	75	04001-22 Bolt, 3/8-16 x 2-3/4" Hex Head	x	x
35	04019-04 Nut, 3/8-16, Serrated Flange	x	x				

NOTES

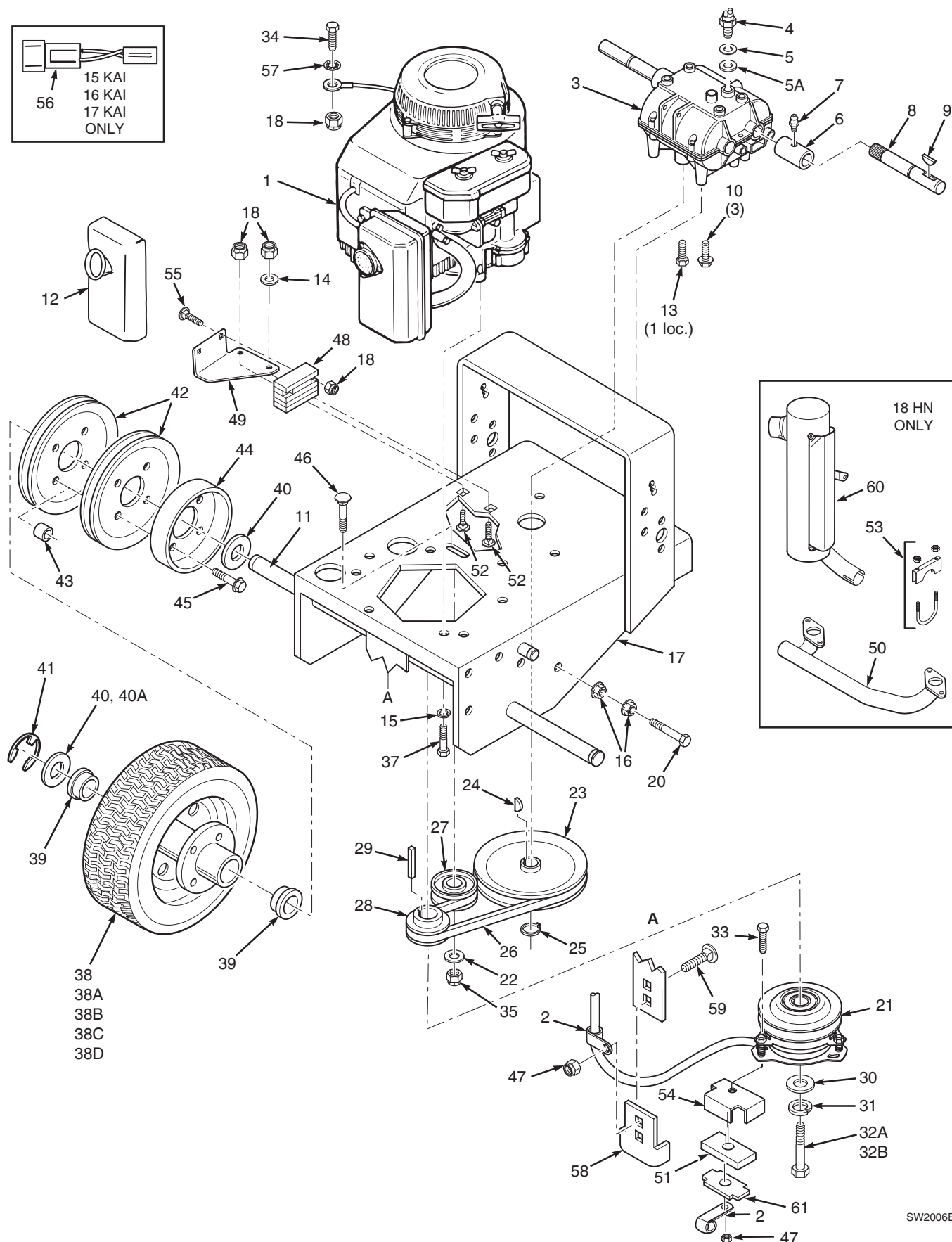
CASTER ASSEMBLY



SW-SWZ2006CSTR

Ref. No.	Part No.	Description	32 36A	48V 52V
1	04066-01	Quick Pin	X	X
2	43037-01	Spacer, Caster Yoke, 1/2" Long	X	X
3	48100-01	Bronze Bearing	X	X
4	48114-04	Grease Fitting	X	X
5	46082	Support Assembly (Includes Items (3 & 4))	X	X
6	45006	Caster Yoke	X	X
7	04021-07	Elastic Stop Nut, 1/2-13	X	X
8	43022	Sleeve, Caster Wheel Bearing	X	X
9	04001-37	Hex Hd. Bolt, 1/3-13 x 5-1/2"	X	X
10	9275	Flat Free Tire Assy. (Includes Items 11-13)	X	X
11	48114-03	Grease Fitting, 45 Degree 1/4-28	X	X
12	481770	Retainer, Bearing, Caster Wheel	X	X
13	481769	Roller Bearing, Caster Wheel	X	X

ENGINE DECK



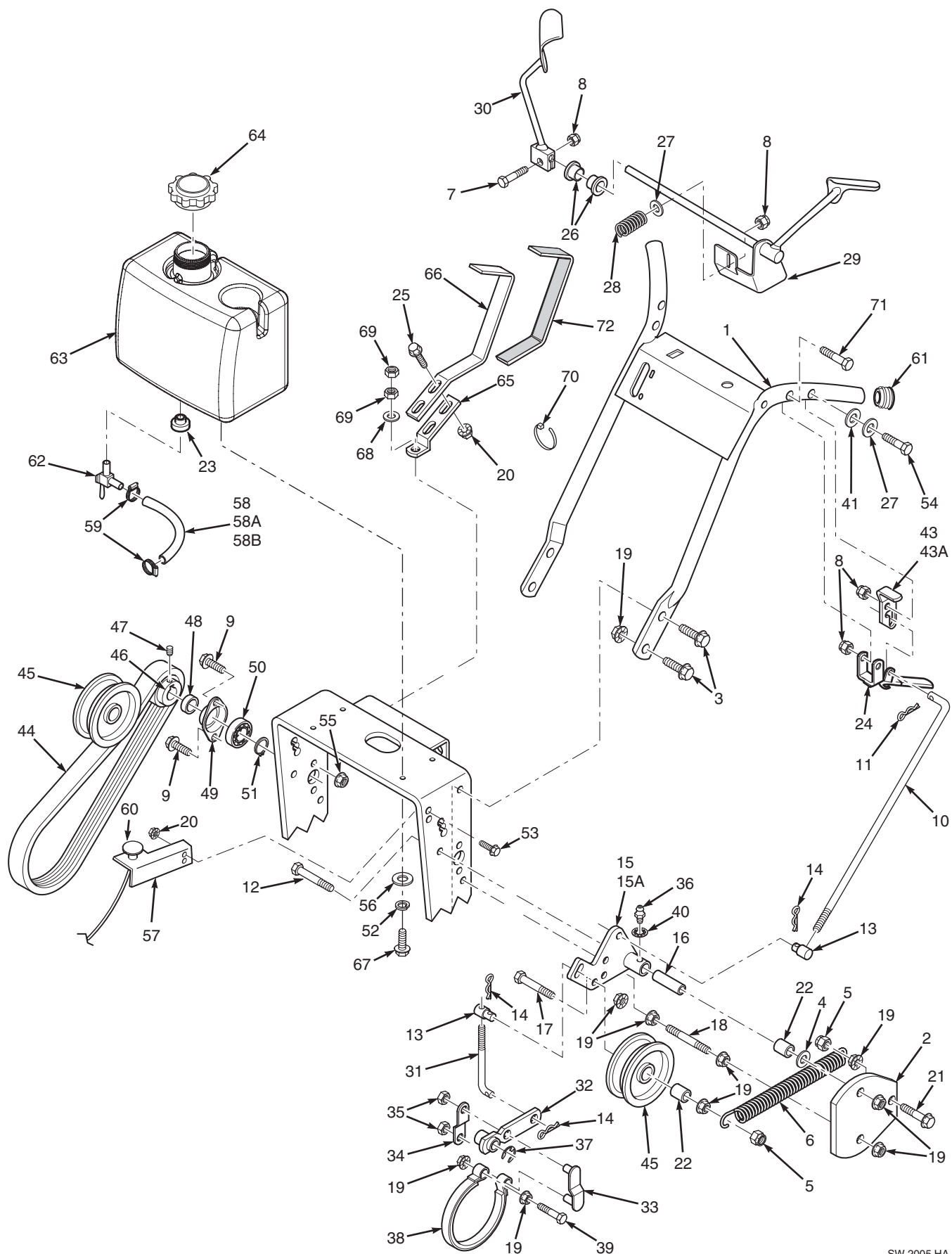
ENGINE DECK

Ref. No.	Part No.	Description	15KH 18KH	15KAI 16KAI 17KAI	18HN	Ref. No.	Part No.	Description	15KH 18KH	15KAI 16KAI 17KAI	18HN
1	482853	Engine, 15HP Kohler (CV 15T, Spec PS-41621)	x			31	04030-05	Lock Washer, 7/16"	x	x	x
	482854	Engine, 18HP Kohler (CV493T, Spec PS-27526)	x			32A	04102-04	Bolt, 7/16-20 x 2-1/2" Hex Head		x	x
	482675	Engine, 15HP Kawasaki (Spec FH430V-ASXX-R)		x		32B	04103-03	Cpsrw, M10-1.5 x55 Metric Hex Hd	x		
	483263	Engine, 16HP Kawasaki (Spec FH480V-ASXX-R)		x		33	04001-12	Bolt, 5/16-18 x 1-3/4" Hex Head	x	x	x
	482927	Engine, 17HP Kawasaki (Spec FH541V-ASXX-R)		x		34	04002-07	Bolt, M8-1.25 x 1.0	x		
	482705	Engine, 18HP Honda (Spec GXV610QAF)			x	35	04021-09	Nut, 3/8-16 Elastic Stop	x	x	x
2	48030-09	Cable Clamp	x	x	x	36	04040-15	Flat Washer, 5/16"	x	x	x
3	481580	Transmission, 5-speed (Peerless 700-070, 9 tooth spline)	x	x	x	37	04018-01	Bolt, M8-1.25 x M25 Metric Hex Hd	x		
4	48231	Neutral Safety Switch	x	x	x	38	48192	Wheel Assembly (incl. 38A-38B) (fits SW36,48,52)	x	x	x
5	48122-01	Fibre Washer, thin	x	x	x	38	48253	Wheel Assembly (incl. 38C-38D) (SW32)		x	
5A	48122-02	Fibre Washer, thick	x	x	x	38A	481860	Tire, 13 x 6.50-6, 2-ply (fits SW36,48,52)	x	x	x
6	481581	Coupler, Jackshaft	x	x	x	38B	481859	Rim & Bearing Assembly (incl. 39) (fits SW36,48 & 52)	x	x	x
7	48114-05	Grease Fitting, straight 1/4-28	x	x	x	38C	481861	Tire, 13 x 5.00-6 2-ply (SW32 only)		x	
8	481582	Jackshaft (fits SW32,36,48 & 52)	x	x	x	38D	481862	Rim Assembly (incl. 39) (SW32 only)		x	
9	04063-09	Key, Hi-Pro #9	x	x	x	39	481858	Wheel Bearing (OD 2.000 - 2.005)	x	x	x
10	04017-16	Bolt, 5/16-18 X 3/4" Hex Head	x	x	x	40	04042-05	Washer, 1-1/16 x 1-3/4 x 12 ga	x	x	x
11	43085**	Wheel Axle (SW36,48 & 52)	x	x	x	40A	04041-14	Washer, 1-1/16 x 1-1/2 x 18 ga	x	x	x
	43104**	Wheel Axle (SW 32)	x			41	04050-08	Retaining Ring, 1" Ext.- "E"	x	x	x
12		Muffler (Purchase from Kawasaki)		x		42	48200	Pulley, Wheel Drive	x	x	x
13	04001-08	Bolt, 5/16-18 X 3/4" Hex Head	x	x	x	43	43088	Spacer, Wheel Pulley	x	x	x
14	04040-14	Flat Washer 1/4" (.312 X .75 X .065)	x	x	x	44	48209	Brake Drum	x	x	x
15	04030-03	Lock Wshr. 5/16"	x	x	x	45	04017-19	Bolt, 5/16-18 x 1-1/2" Serrated flange	x	x	x
16	04019-04	Nut, 3/8-16 Serrated Flange	x	x	x	46	04003-03	Bolt, 3/8-16 x 2" Carriage	x	x	x
17	461741	Engine Deck (fits SW32)		x		47	04021-10	Nut, 5/16-18 Elastic Stop	x	x	x
	461743	Engine Deck (fits SW36,48 & 52)	x	x	x	48	***	Rectifier (Purchase from Honda)			x
18	04021-08	Nut, 1/4-20 Elastic Stop	x	x		49	423943	Mounting Bracket, Rectifier			x
19	04019-03	Nut, 5/16-18 Serrated Flange				50	482902	Manifold, Exhaust			x
20	04001-51	Bolt, 3/8-16 x 3-3/4" Hex Head	x	x	x	51	481716	Rubber Pad, Clutch Stop	x	x	x
21	461397	Electric Clutch (Ogura)	x	x	x	52	04003-02	Bolt, 1/4-20 x 3/4" Carriage			x
22	04041-07	Washer, 3/8" (.391 x .938 x .105)	x	x	x	53	482903	Clamp, Muffler			x
23	48197	Pulley, Transmission Input	x	x	x	54	422533	Backing Plate	x	x	x
24	04063-07	Key, Woodruff #9	x	x	x	55	04003-06	Bolt, 1/4-20 x 1" Carriage			x
25	04050-09	Retaining Ring, 5/8" Ext, Basic	x	x	x	56	481717	Wire Harness Adapter (15KAI, 16KAI, 17KAI)		x	
26	48203	Belt, Transmission Drive	x	x	x	57	04031-09	Lock Washer Internal Tooth	x	x	
27	483208	Idler Pulley, Transmission	x	x	x	58	421370	Anti Rotation Bracket	x	x	
28	481666	Pulley, Traction Drive	x	x	x	59	04003-04	Bolt, 5/16-18 x 1" Carriage	x	x	
29	04063-19	Key, 1/4 x 1/4 x 3/4"	x	x	x	60	482901	Muffler			x
30	04041-28	Flat Washer, 7/16" Special	x	x	x	61	422534	Plate, Backing	x	x	x

** = Requires welding onto chassis.

*** = Honda part number 31750-769-751

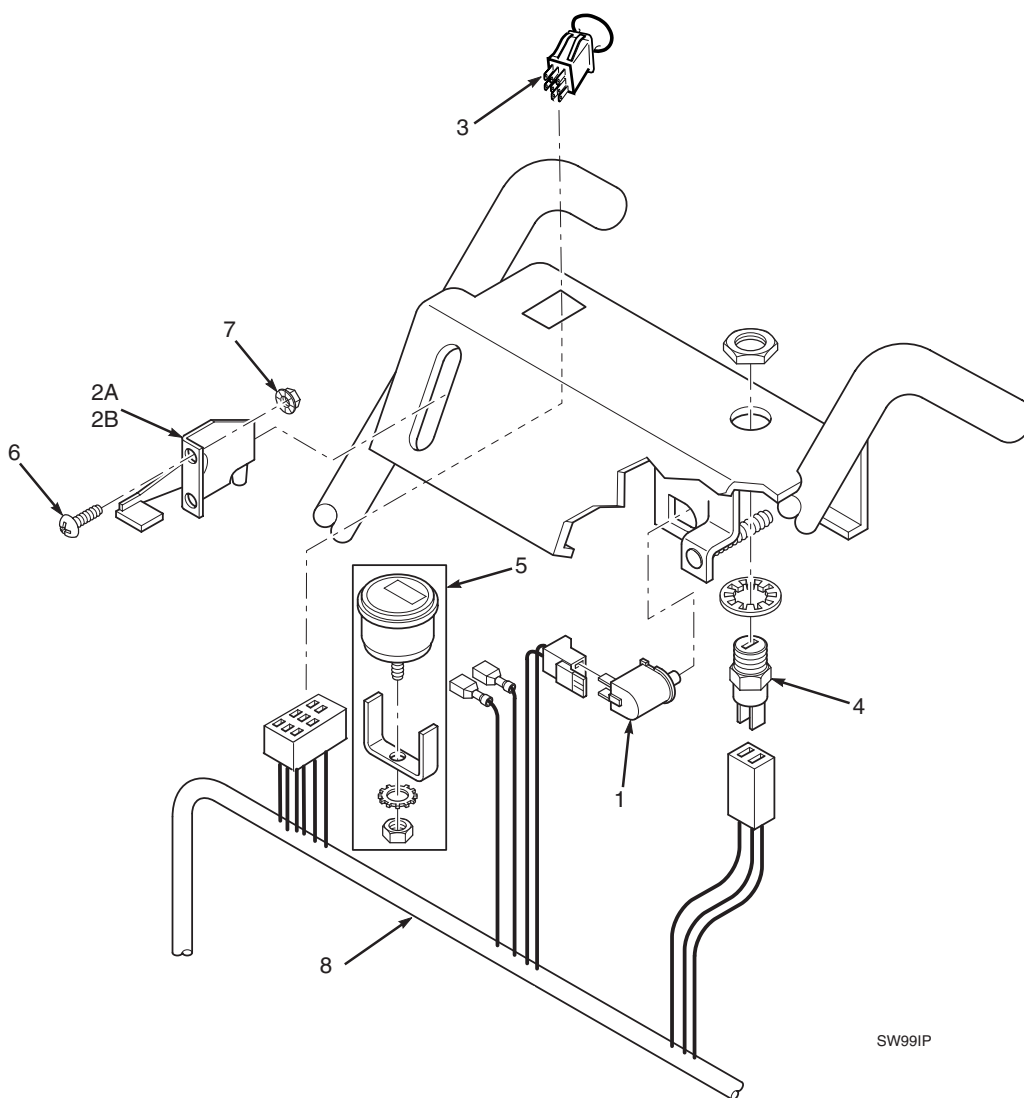
HANDLE ASSEMBLY



HANDLE ASSEMBLY

Ref. Part No. No.	Description	15KH	15KAI	18HN	Ref. Part No. No.	Description	15KH	15KAI	18HN
		18KH	16KAI	17KAI			18KH	16KAI	17KAI
1	461830				54	04001-17 Bolt, 5/16-18 x 2" Hex Head	x	x	x
2	421360				55	04019-02 Nut, 1/4-20 Serrated Flange	x	x	x
3	04017-27				56	04040-15 Flatwasher, 5/16 (.375 x .875 x .083)	x	x	x
4	04041-07				57	424113 Bracket, Choke Mt.		x	x
5	04021-09				58	48058 Fuel Hose, 1/4"ID, 10" (KH Only)	x		
6	48755				58A	48058 Fuel Hose, 1/4"ID, 23" (KA Only)		x	
7	04001-10				58B	48058 Fuel Hose, 1/4"ID, 26" (Honda Only)			x
8	04021-10				59	48059-01 Clamp, Fuel Hose	x	x	x
9	04017-05				60	482314 Choke Control		x	x
10	44140				61	483161 Plug, Handlebar	x	x	x
11	04062-02				62	48308 Valve, Fuel Shut Off	x	x	x
12	04001-23				63	461729 Fuel Tank Assy.(Incl. Bush. & Val.)	x	x	x
13	43032				64	482547 Fuel Tank Cap	x	x	x
14	04062-01				65	422279 Shift Lever	x	x	x
15	45847				66	461163 Shift Lever Extention (incl. 72)	x	x	x
15A	45846				67	04001-09 Capscrew, 5/16-18 x 1" Hex Head	x	x	x
16	43092				68	04041-07 Washer, 3/8 (.391x .938 x .105)	x	x	x
17	04001-62				69	04020-14 Nut, 3/8-24 UNF	x	x	x
18	04004-17				70	48028-05 Cable Tie	x	x	x
19	04019-04				71	04001-53 Bolt, 5/16-18 x 2-1/2"	x	x	x
20	04019-03				72	481839 Grip, Shift Handle	x	x	x
21	04017-28								
22	43286								
23	48309								
24	483160								
25	04017-17								
26	483142								
27	04040-15								
28	483040								
29	451757								
30	451759								
31	44005								
32	45092								
33	45093								
34	42254								
35	04024-01								
36	48114-05								
37	04050-01								
38	48210								
39	04001-45								
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43A	461241								
44	48202A								
45	483211								
46	482645								
47	04012-04								
48	43098								
49	48223								
50	48224								
51	04050-09								
52	04030-03								
53	04017-16								

INSTRUMENT PANEL

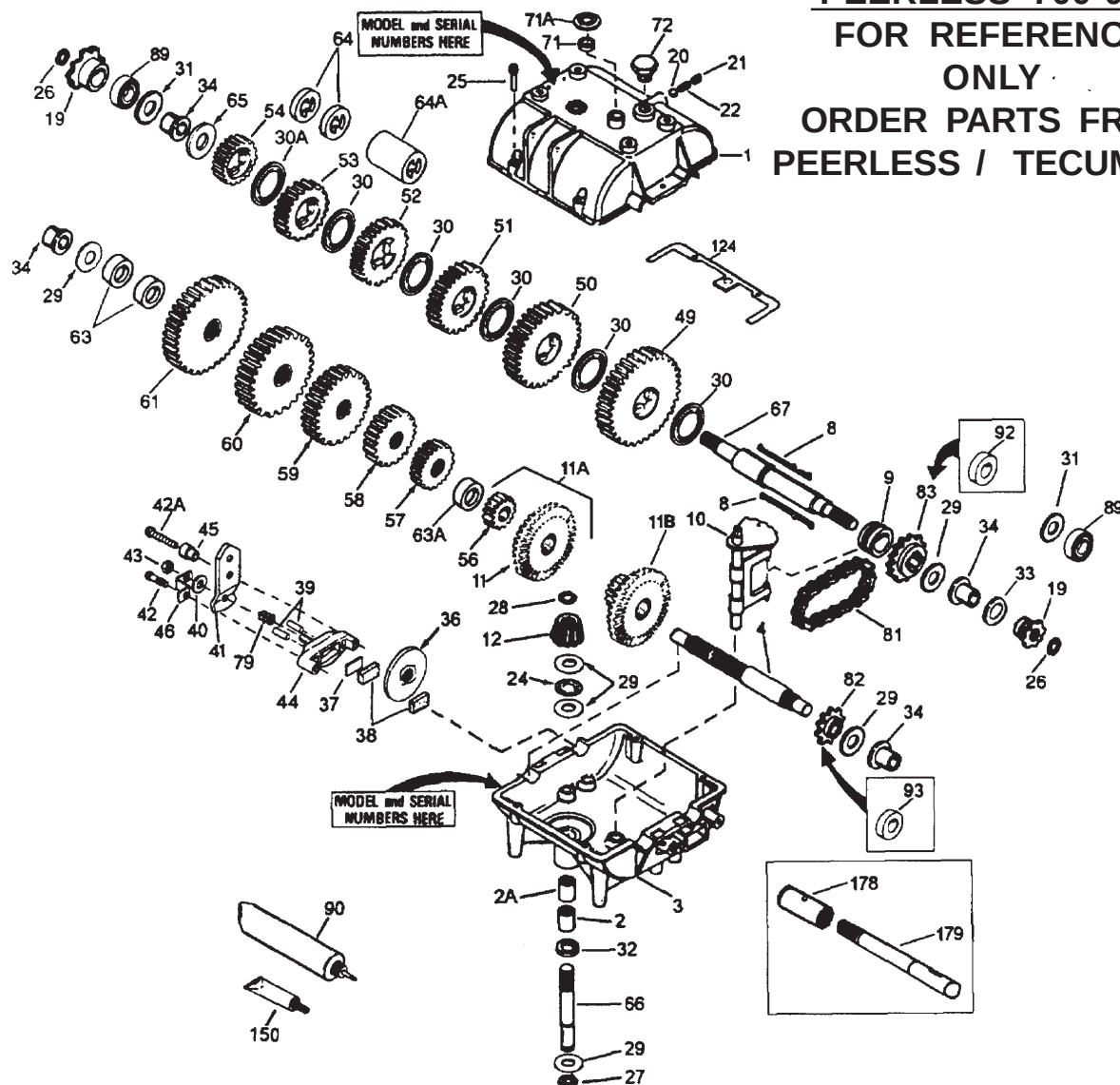


SW99IP

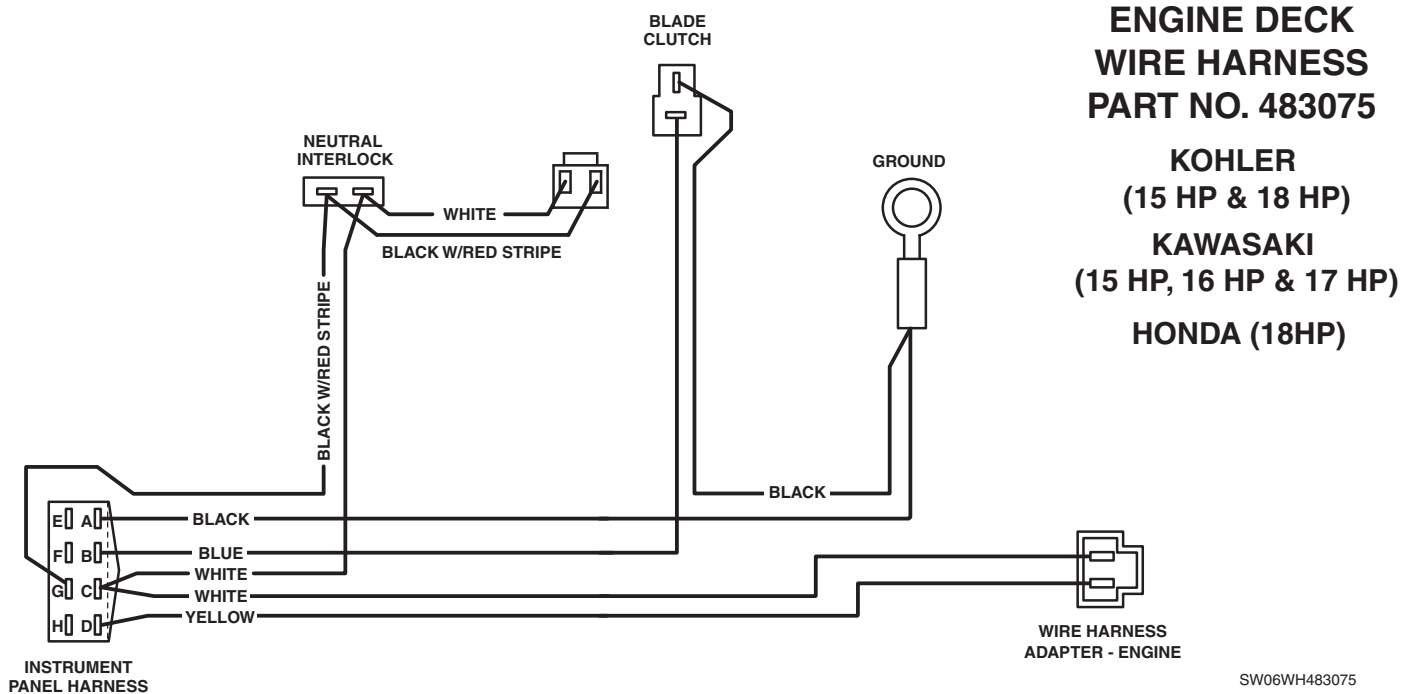
Ref. No.	Part No.	Description	15KH 18KH	15KAI 16KAI 17KAI	18HN
1	48717	Switch, Neutral Interlock	X	X	X
2A	482814	Throttle Control	X		
2B	48946	Throttle Control		X	X
3	483162	Engagement Switch, Electric Clutch	X	X	X
4	48609	Key Switch (Includes hardware)	X	X	X
5	48023	Hour Meter (dealer installed)	X	X	X
6	*	Screw, #10-32 x .50 Phillips Washer Head	X	X	X
7	04019-01	Nut, #10-32 Serrated Flange Hex Head	X	X	X
8	482711	Handle Wire Harness, Manual Start	X	X	X
NS	48030-09	Clamp, Wire Harness	X	X	X

* Common hardware which should be purchased locally. All bolts grade 5 plated, all other fasteners zinc plated.

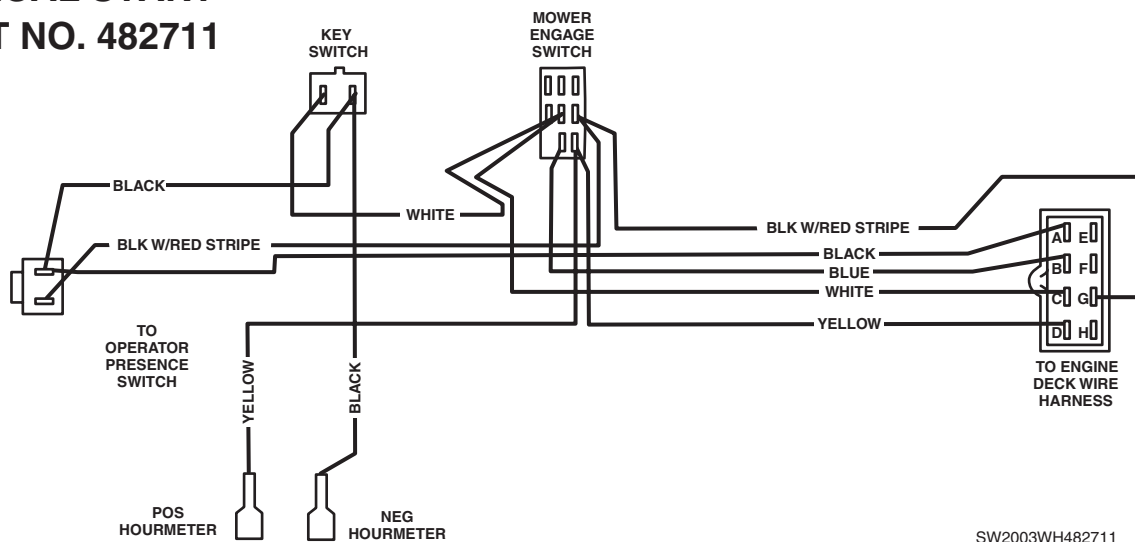
**PEERLESS 700-070
FOR REFERENCE
ONLY
ORDER PARTS FROM
PEERLESS / TECUMSEH**

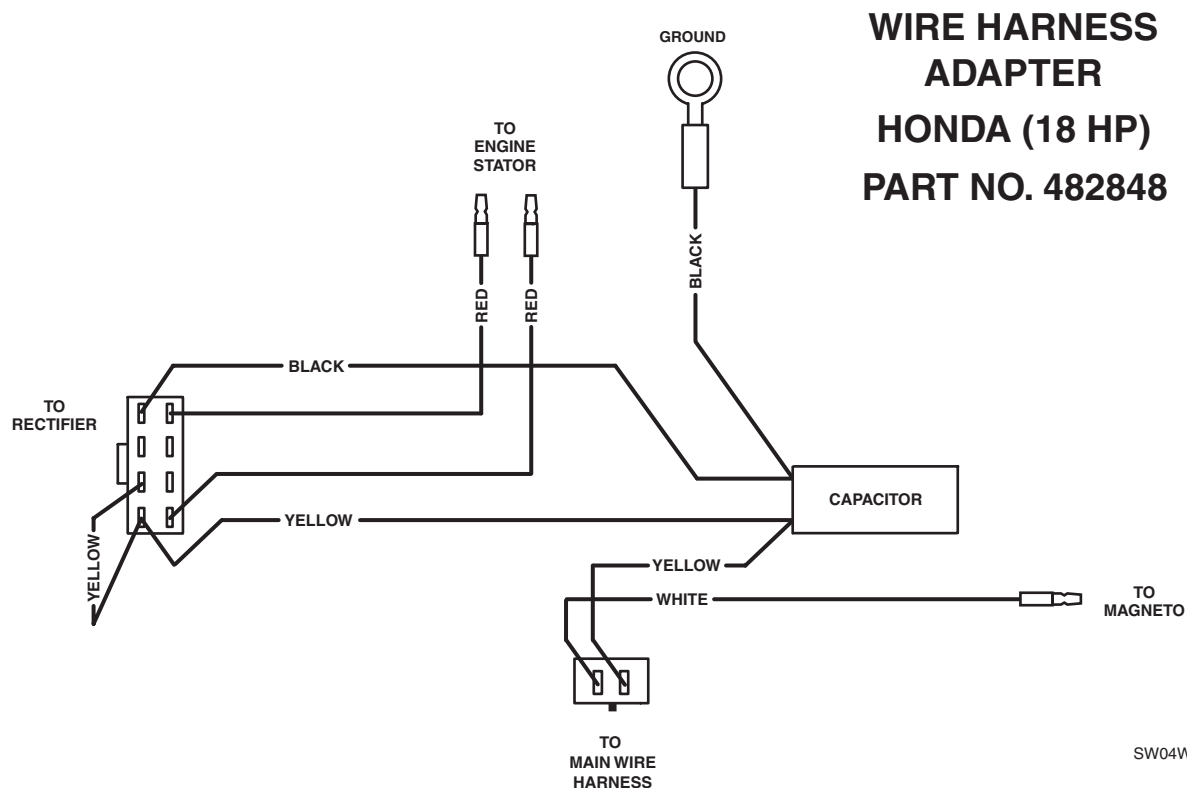


Ref. No.	Part No.	Description	REF. NO.	PART NO.	DESCRIPTION
1	772083A	Case, Transmisson	50	778125	Spur Rear (35 teeth)
2	780086A	Needle Bearing Grease Spec	51	778239A	Spur Gear (32 teeth-steel)
2A	780142	Needle Bearing	52	778124A	Spur Gear (30 teeth)
3	770061A	Case, Transmission	53	778123A	Spur Gear (25 teeth)
8	792089A	Shift Key	56	778145	Spur Gear (12 teeth-steel)
9	784266	Shift Collar	57	778151	Spur Gear (15 teeth)
10	784376	Shift Rod & Fork	58	778240	Spur Gear (18 teeth-steel)
11	778154	Bevel Gear (42 teeth)	59	778126A	Spur Gear (20 teeth)
12	778176	Bevel Pinion (14 teeth-steel)	60	778127A	Spur Gear (25 teeth)
20	792077	Steel Ball, 5/16" dia.	65	780139	Washer
21	792078	Set Screw, 3/8-16 x 3/8"	66	776135	Input Shaft (3-11/16" long)
22	792079	Spring	67	776402	Shifter & Brake Shaft
24	780071	Thrust Bearing	71	788069	Square Cut Ring
25	792073	Screw, 1/4-20 x 1-1/4" (6)	72	792074	Threaded Plug (Shipping only, not used)
27	792035	Retaining Ring	81	786081	Roller Chain (No. 41 chain, 24 links)
28	788040	Retaining Ring	82	786082	Sprocket (9 teeth)
29	780072	Washer (6)	83	786083	Sprocket (18 teeth)
30	780108	Washer (5)	90	788067B	Grease (32 oz. bottle Bentonite grease)
32	792001	"O" Ring	150	510334	Gasket Eliminator (Loctite #515)
34	780105A	Flanged Bushing	178	*	Coupling (See page 24-25 for part number)
49	778146A	Spur Gear (37 teeth)	179	*	Connector Shaft (See page 24-25 for part number)

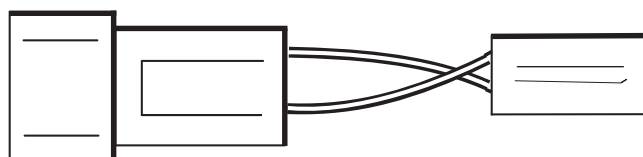


HANDLE WIRE HARNESS MANUAL START PART NO. 482711

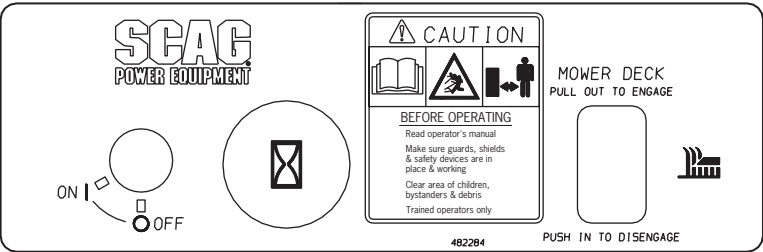




WIRE HARNESS ADAPTER
PART NO. 481717
KAWASAKI
(15 HP, 16 HP & 17 HP)



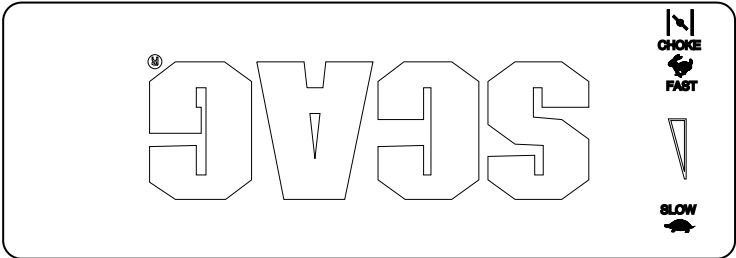
SW2006WH481717



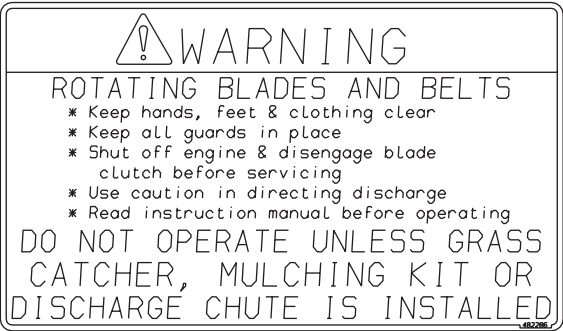
482284



48314



481122



482286



32" - 48315
36" - 482297



48" - 483199
52" - 483200

482816

CUTTING HEIGHT ADJUSTMENT

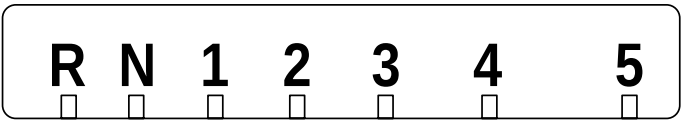
DECK MOUNTING HOLE POSITION

NUMBER OF CASTER SPACERS (BELOW SUPPORT)

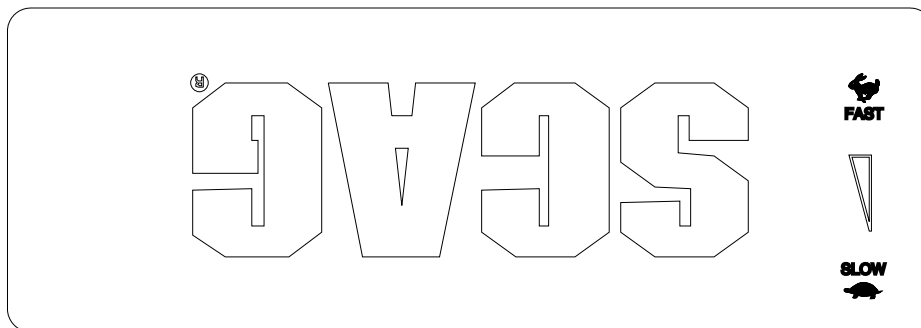
NUMBER OF SPACERS ABOVE CUTTER BLADES

	0	1	2	3	4	5
TOP	0	-	-	2-3/8	2-1/8	1-7/8
MIDDLE	0	-	-	2-5/8	2-3/8	2-1/8
MIDDLE	1	-	-	2-3/4	2-1/2	2-1/4
BOTTOM	2	-	-	-	-	2-7/8
BOTTOM	3	-	4	3-3/4	3-1/2	3-1/4
BOTTOM	4	4-3/8	4-1/8	3-7/8	3-5/8	3-3/8

482816



48332



481483



483206



481971



481039

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING PATENTS:			
4,487,006	4,885,903	4,920,733	4,967,543
4,991,382	4,998,948	5,042,239	5,118,617
5,133,176	5,826,416	5,832,708	5,865,018
6,192,666	6,766,633	6,892,519	
PATENTS PENDING			

483044



48404



482165



481109