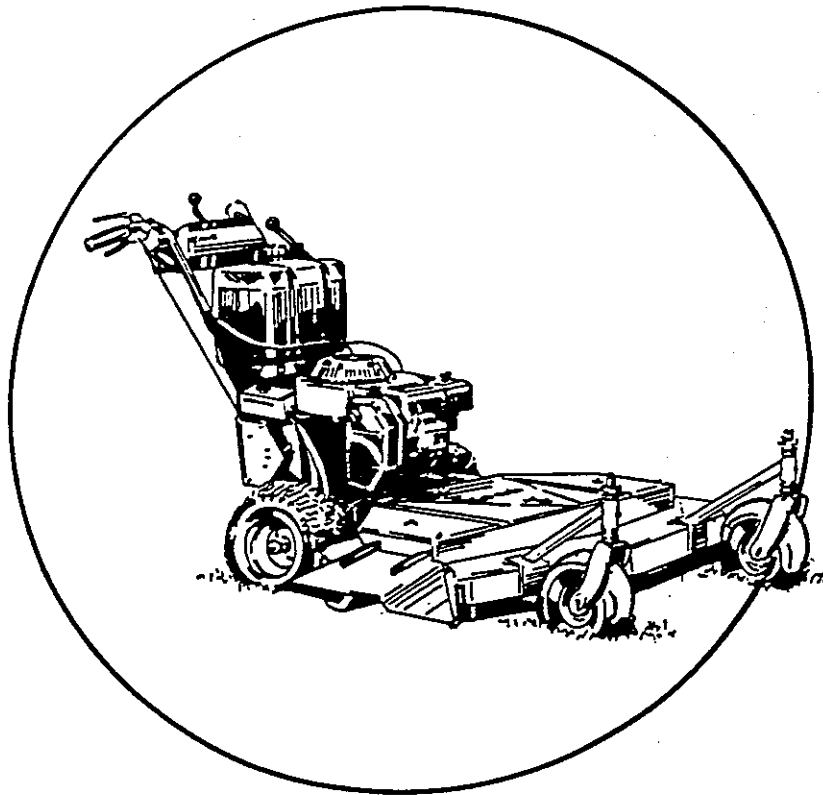


For Serial Nos.
90,000 & Higher



Viking Hydro



Parts Manual

CONGRATULATIONS on the purchase of your new Exmark mower. This product has been carefully designed and manufactured to give you a maximum amount of dependability and years of trouble-free operation.

If additional information is needed, or should you require trained mechanic service, contact your authorized Exmark equipment dealer or distributor.

If you need to order replacement parts from your dealer, always give the model number and serial number of your mower as well as the quantity, part number and description of the part needed.

The serial number plate is located on the top front right hand side of the engine frame. We suggest that you record numbers below for ready reference.

Model No. _____

Serial No. _____

Date Purchased _____

Purchased From _____

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SAFETY RECOMMENDATIONS FOR ALL EXMARK MOWER USERS

BEFORE OPERATING YOUR MOWER, CAREFULLY READ THE OPERATOR'S MANUAL IN ITS ENTIRETY.

Training

1. Regard the Exmark mower as a piece of power equipment and teach this regard to all who operate this unit.
2. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
3. Never allow children, teenagers, or people unfamiliar with these instructions to use the mower.
4. Avoid mowing while people, especially children or pets, are nearby. Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.

Preparation

1. The use of personal protective equipment, such as (but not limited to) protection for the eyes, ears, feet and head is recommended.
2. While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
3. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wires, bones and other foreign objects.
4.  **DANGER: FUEL IS HIGHLY FLAMMABLE.**
 - a) **STORE FUEL IN CONTAINERS SPECIFICALLY DESIGNED FOR THIS PURPOSE.**
 - b) **REFUEL OUTDOORS ONLY. DO NOT SMOKE WHILE REFUELING.**
 - c) **ADD FUEL BEFORE STARTING THE ENGINE. NEVER REMOVE THE CAP OF THE FUEL TANK OR ADD FUEL WHILE ENGINE IS RUNNING OR WHEN ENGINE IS HOT.**
 - d) **IF FUEL IS SPILLED, DO NOT ATTEMPT TO START THE ENGINE. MOVE AWAY FROM THE AREA OF THE SPILL AND AVOID CREATING ANY SOURCE OF IGNITION UNTIL FUEL VAPORS HAVE DISSIPATED.**

Operation

1. Give complete, undivided attention to the job at hand.
2.  **DANGER:** Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.

3. Mow only in daylight or good artificial light.
4. Avoid operating the equipment in wet grass, when feasible.
5. Mow across the face of steep slopes, never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
6. Use extreme caution when backing up.
7. Stop the blades when crossing surfaces other than grass and when transporting the mower to and from the area to be mowed.
8. Never operate the mower with defective guards, shields, or without safety devices in place.
9. Do not change the engine governor settings or overspeed the engine. Operating an engine at excessive speed may increase the hazard of personal injury.
10. Place transmission in neutral and disengage blade drive before starting.
11. Start the engine carefully with feet well away from the blades.
12. Keep hands, feet and clothing away from rotating parts while the mower is being operated.
13. Stop the engine and disconnect the spark plug wire(s)
 - a) Before checking, cleaning or working on the mower.
 - b) After striking a foreign object (inspect the mower for damage and make repairs before restarting and operating the mower).
14. Stop the engine:
 - a) Before clearing blockages.
 - b) Before removing the grass catcher.
 - c) Whenever you leave the mower.
 - d) Before refueling.
 - e) Before making height adjustments.
15. Return the throttle control to the idle position for 30 seconds for engine cool down before stopping the engine.
16. The fuel system is provided with a shut-off valve. The fuel shut-off valve is used to shut off the fuel when machine will not be used for a few days, when parking inside a building, or during transport to and from the job.

17. This mower was designed for one operator only. Keep all others off mower during operation.
18. Do not mow without grass deflector or entire grass collection system in place and in proper working condition.
19. Do not operate machine unless all guards, shields and covers are in place and in proper working condition.
20.  **CAUTION: FAILURE TO FOLLOW SAFETY INSTRUCTIONS AND CAUTIOUS OPERATING PRACTICES CAN RESULT IN SERIOUS INJURY.**
21.  **CAUTION: ALTHOUGH HAZARD CONTROL AND ACCIDENT PREVENTION PARTIALLY ARE DEPENDENT UPON THE DESIGN AND CONFIGURATION OF THE EQUIPMENT, THESE FACTORS ARE ALSO DEPENDENT UPON THE AWARENESS, CONCERN, PRUDENCE, AND PROPER TRAINING OF THE PERSONNEL INVOLVED IN THE OPERATION, TRANSPORT, MAINTENANCE AND STORAGE OF THE EQUIPMENT. IT IS ESSENTIAL THAT ALL OPERATOR SAFETY MECHANISMS BE CONNECTED AND IN OPERATING CONDITION PRIOR TO USE FOR MOWING.**

Maintenance and Storage

1. Precisely follow the engine manufacturer's recommendations for maintenance.
2. If carburetor adjustment is necessary, stand to one side and keep feet and hands clear while making adjustments.
3. Keep engine free from accumulation of grass, leaves or excessive grease or oil. An accumulation of these combustible materials may result in a fire.
4. Store fuel in a container specifically designed for this purpose in a cool, dry place.
5. Keep the mower and fuel container in locked storage to prevent children from playing or tampering with them.
6. Gasoline powered equipment or fuel containers should not be stored in a basement or any closed area, where heat appliances or open pilot lights are present.
7. Maximum mowing results and safety can only be achieved if the mower is properly maintained and operated correctly.
8. Check all bolts frequently to maintain proper tightness.

9. Keep all guards, shields and other safety devices in place and in safe working condition.
10. Check for worn or deteriorating components that could create a hazard.
11. All replacement parts must be the same as or equivalent to the parts supplied as original equipment.

 **CAUTION: HYDRAULIC FLUID ESCAPING UNDER PRESSURE MAY HAVE SUFFICIENT FORCE TO PENETRATE SKIN AND CAUSE SERIOUS INJURY. IF FOREIGN FLUID IS INJECTED INTO THE SKIN, IT MUST BE SURGICALLY REMOVED WITHIN A FEW HOURS BY A DOCTOR FAMILIAR WITH THIS FORM OF INJURY OR GANGRENE MAY RESULT.**

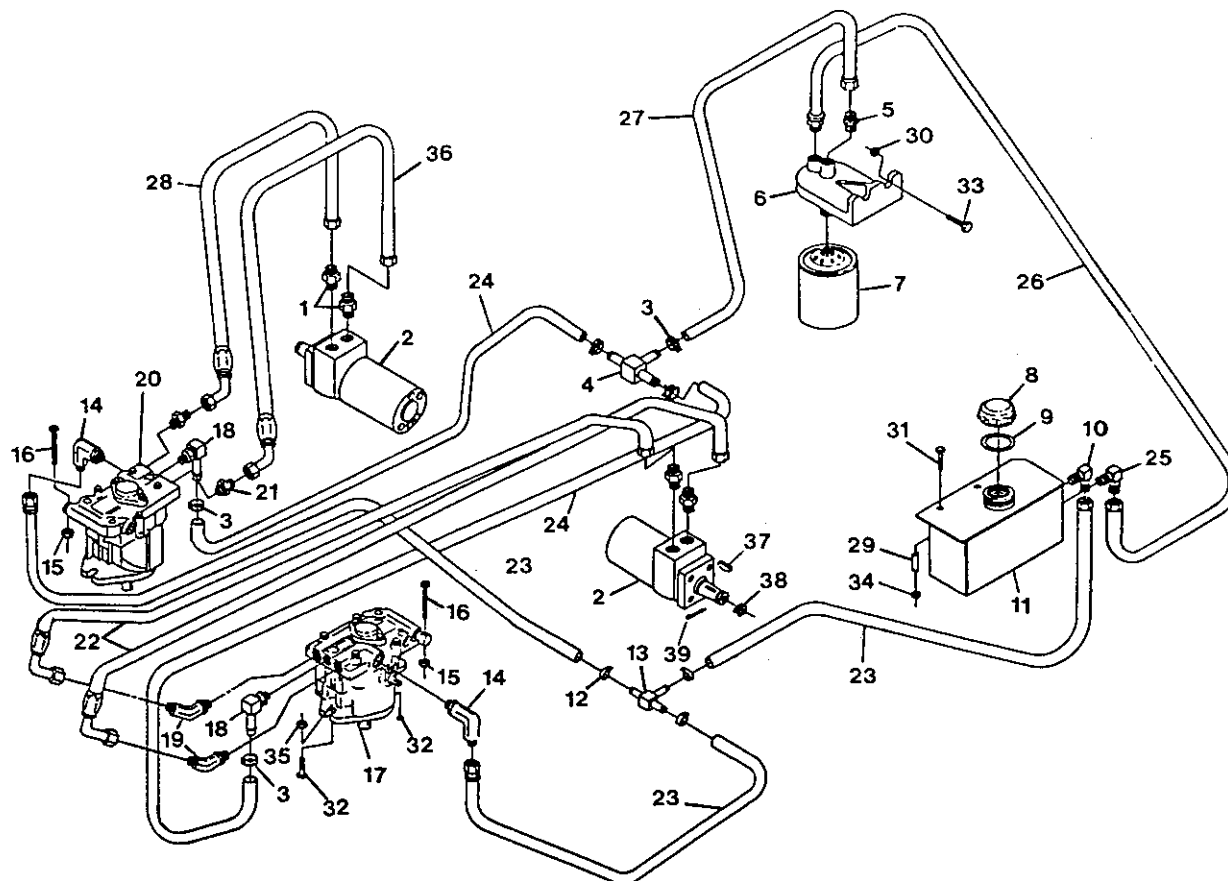
 **CAUTION: KEEP BODY AND HANDS AWAY FROM PIN HOLES OR NOZZLES THAT EJECT HYDRAULIC FLUID UNDER HIGH PRESSURE. USE PAPER OR CARDBOARD AND NOT HANDS TO SEARCH FOR LEAKS.**

 **CAUTION: SAFELY RELIEVE ALL PRESSURE IN THE SYSTEM BEFORE DISCONNECTING THE LINES OR PERFORMING WORK ON THE SYSTEM.**

 **CAUTION: MAKE SURE ALL HYDRAULIC FLUID CONNECTIONS ARE TIGHT AND ALL HYDRAULIC HOSES AND LINES ARE IN GOOD CONDITION BEFORE APPLYING PRESSURE TO THE SYSTEM.**

Safety Signs

1. Keep all safety signs legible. Remove all grease, dirt and debris from safety signs.
2. Safety signs must be replaced if they are missing or illegible.
3. When new components are installed, be sure that current safety signs are affixed to the replaced components.
4. New safety signs may be obtained from your authorized Exmark equipment dealer or distributor or from Exmark Mfg. Co. Inc.
5. Safety signs may be affixed by peeling off the backing to expose the adhesive surface. Apply only to a clean, dry surface. Smooth to remove any air bubbles.
6. Familiarize yourself with the safety signs and instructional labels. They are critical to the safe operation of your Exmark commercial mower.

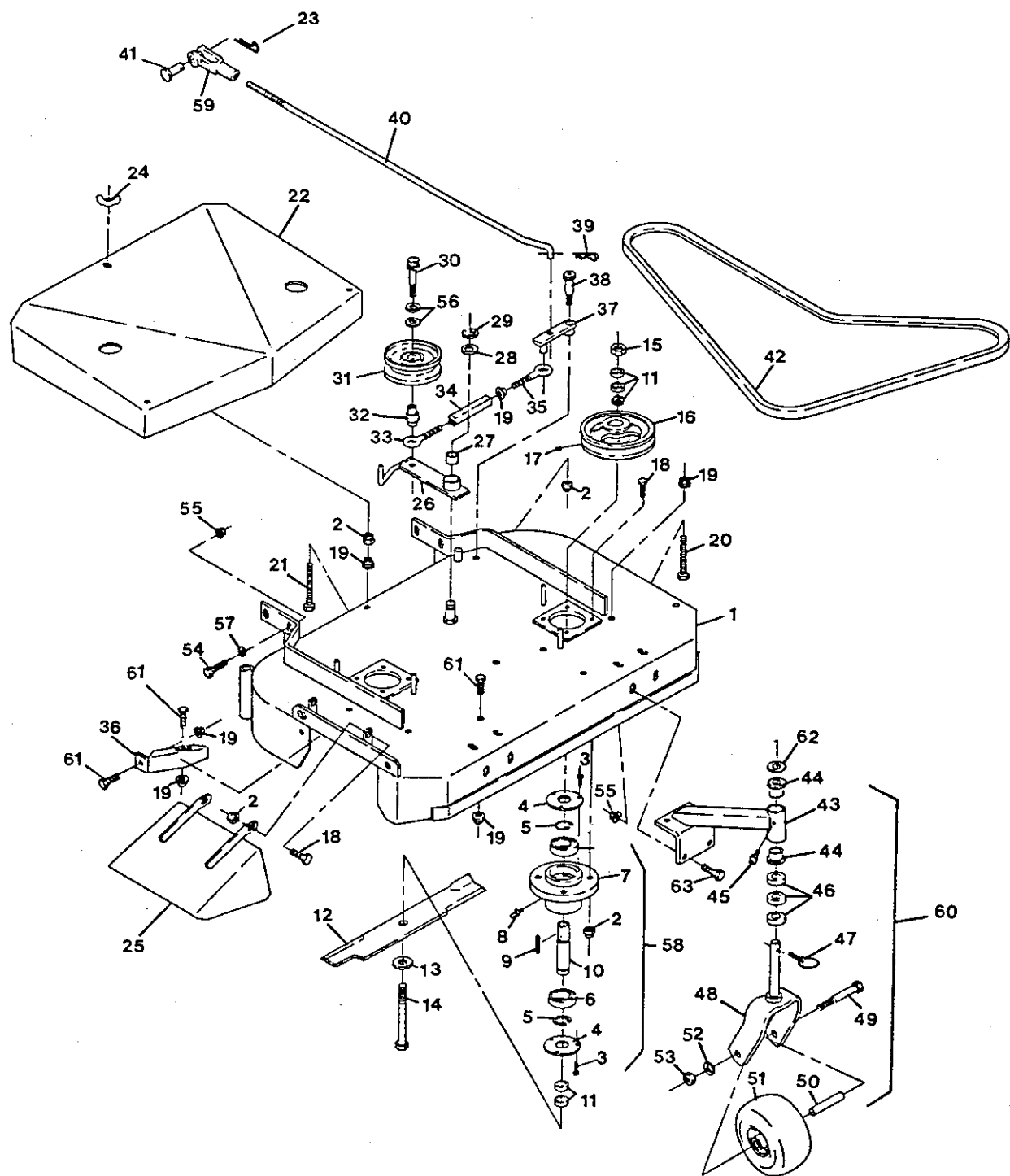


HYDRAULICS GROUP

KEY	PART #	QTY.	DESCRIPTION
1.....	603991.....	4.....	Fitting - Straight Connector
	603919.....	1.....	Boss O-Ring
	603992.....	1.....	Flare O-Ring
2.....	603718.....	2.....	Wheel Motor
3.....	603827.....	5.....	Hose Clamp
4.....	603721.....	1.....	Fitting - 3/8 Hose Tee
*5.....	513510.....	1.....	Connector - Male
6.....	603720.....	1.....	Head - Filter
7.....	513211.....	1.....	Element - Oil Filter
8.....	513167.....	1.....	Cap - Hydraulic Reservoir
9.....	523103.....	1.....	Gasket - Tank Cap
*10.....	603987.....	1.....	Elbow - 90°
11.....	512166.....	1.....	Reservoir - Hydraulic Fluid
12.....	603826.....	3.....	Hose Clamp
13.....	603722.....	1.....	Fitting - 1/4 Hose Tee
14.....	513840.....	2.....	Elbow - 90°
	603921.....	1.....	O-Ring
15.....	804255.....	2.....	1/4-20 Nyloc Nut
16.....	801060.....	2.....	1/4-20 x 2 Pan Hd. Std. Mach. Screw
17.....	603841.....	1.....	Pump - Hydro RH
18.....	603989.....	2.....	Elbow - 90°
	603923.....	1.....	O-Ring
19.....	523221.....	2.....	Elbow - 45°
	603992.....	1.....	Flare O-Ring
	603920.....	1.....	Boss O-Ring

KEY	PART #	QTY.	DESCRIPTION
20.....	603840.....	1.....	Pump - Hydro LH
21.....	603990.....	2.....	Adapter - Straight Thread
	603920.....	1.....	Boss O-Ring
	603992.....	1.....	Flare O-Ring
22.....	323241.....	2.....	Hose - Hydro RH
23.....	602750.....	3.....	Hose Assembly - Case Drain
24.....	303526.....	2.....	Hose Assembly - Charge Pump
*25.....	603998.....	1.....	Elbow - 90°
26.....	602985.....	1.....	Hose Assembly - Supply
27.....	602754.....	1.....	Hose Assembly - Charge Line
28.....	523210.....	1.....	Hose - Hydro LH
29.....	323218.....	2.....	Spacer - Hydraulic Tank
30.....	809001.....	2.....	5/16-18 Whizlock Nut
31.....	800258.....	2.....	1/4-20 x 2 Hex Head Capscrew
32.....	800292.....	4.....	3/8-16 x 1 Hex Head Capscrew
33.....	800273.....	2.....	5/6-18 x 1 Hex Head Capscrew
34.....	809012.....	2.....	1/4-20 Whizlock Nut
35.....	809007.....	4.....	3/8-16 Whizlock Nut
36.....	523210.....	1.....	Hose - Hydro LH (36")
	403102.....	1.....	Hose - Hydro LH (48" & 52")
37.....	807019.....	2.....	1.0 x .25 Woodruff Key
38.....	809068.....	2.....	3/4-16 - 2B Slotted Hex Nut
39.....	806800.....	2.....	9/64 x 1-1/2 Cotter Pin

* Use Teflon Pipe Sealant or Equivalent on Hyd Reservoir Fittings & Filter Head Fittings.

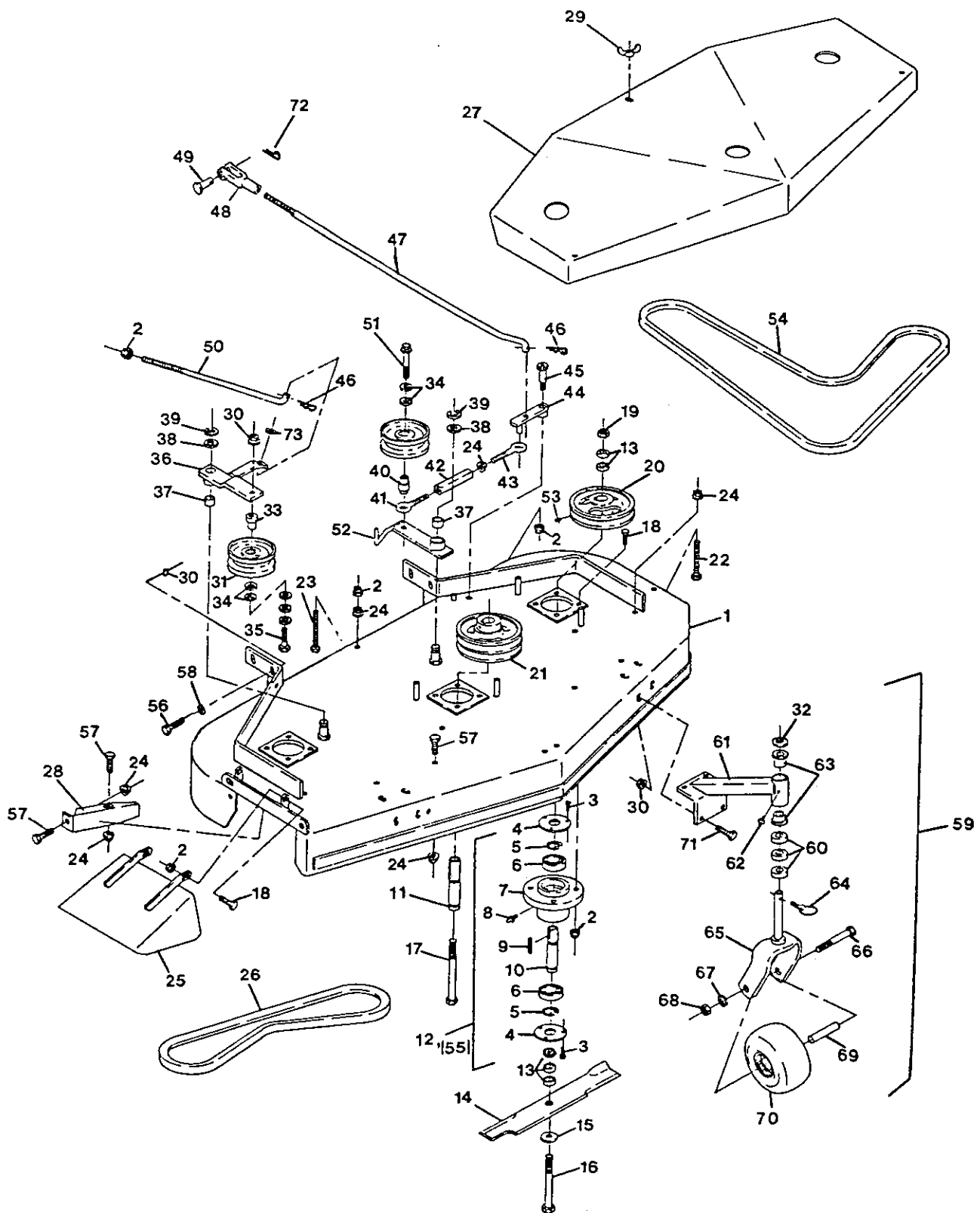


36" MOWER DECK

KEY	PART #	QTY.	DESCRIPTION
1.....	302206.....	1.....	36" Front Deck w/ Baffles
2.....	804256.....	13.....	5/16-18 Nyloc Hex Nut
3.....	801035.....	12.....	#10-24 x 3/8 Pan Sltd. Head Machine Screw
4.....	303523.....	4.....	Cutter Housing Cap
5.....	808521.....	4.....	Snap Ring
6.....	303057.....	4.....	Cutter Housing Bearing
7.....	303189.....	2.....	Cutter Housing
8.....	811001.....	2.....	1/8 N.P.T. Straight Zerk
9.....	807263.....	2.....	1/4 Sq. x 1-1/4 Key
10.....	303187.....	2.....	Cutter Spindle
11.....	303164.....	10.....	Blade Drive Spacer
12.....	303146.....	2.....	Blade - 18" High Lift (36")
	303495.....	2.....	Blade - Mulching (36")*
	303439.....	2.....	Blade - Low Lift (36")
	303283.....	2.....	1/4 x 18" High Lift Blade (36")
13.....	805268.....	2.....	5/8 Std. Flatwasher
14.....	800860.....	2.....	5/8-18 x 7.5 Gr. 5 HH
15.....	804510.....	2.....	5/8-18 UNF Hex Nut
16.....	303073.....	2.....	Pulley - Cast Iron
	840023.....		Pro-Lock, Retaining 1 (.5cc Tube) Use on Pulley Bore
17.....	803310.....	4.....	Set screw - 5/16-18 x 3/8
	840022.....		Pro-Lock, Nut Type (.5 ml Tube) Use on Setscrews
18.....	800273.....	10.....	5/16-18 x 1 HH Capscrew
19.....	809001.....	13.....	5/16-18 Whizlock Nut
20.....	800021.....	2.....	5/16-18 x 3 HH Tapbolt
21.....	800020.....	1.....	Tapbolt - .31-18 x 3.5 HH
22.....	302207.....	1.....	Shield Weldment - 36" (Viking Hydro)
23.....	806753.....	1.....	3/32 x 1/2 Cotter Pin
24.....	803014.....	3.....	5/16 NC Wing Nut
25.....	302054.....	1.....	Chute
26.....	302129.....	1.....	Engagement Arm w/Bushing
27.....	303144.....	1.....	Powder Metal Bearing
28.....	303352.....	1.....	Washer - Spindle
29.....	808505.....	1.....	E-Ring for .875 Rd.
30.....	803003.....	1.....	3/8-16 x 1-3/4 Whizlock Bolt
31.....	603843.....	1.....	Heavy Duty Idler Pulley
32.....	303434.....	1.....	Engagement Bushing

KEY	PART #	QTY.	DESCRIPTION
33.....	303348.....	1.....	Left Thd. Eye Bolt
34.....	303236.....	1.....	Turnbuckle Body
35.....	303238.....	1.....	Right Thd. Eye Bolt
36.....	302189.....	2.....	Dogleg Baffle
37.....	302198.....	1.....	Assist Arm
38.....	809011.....	1.....	3/8 x 3/4 Shoulder Bolt
39.....	806003.....	1.....	Hairpin Cotter
40.....	323174.....	1.....	Assist Arm Linkage
41.....	808280.....	1.....	5/16 x 1 Clevis Pin
42.....	323200.....	1.....	Drive Belt to Blades - 36"
43.....	302194.....	2.....	Caster Wheel Support Weldment
	302203.....	2.....	Caster Wheel Support Weldment w/Bearings
44.....	303514.....	4.....	Flange Thrust Bearing
45.....	811001.....	2.....	Grease Zerk - 1/8 NPT
46.....	303314.....	6.....	Spacer - 10" Caster
47.....	809020.....	2.....	Quick Pin - 10" Caster
48.....	302200.....	2.....	Caster Weldment - Mid-Size
49.....	800334.....	2.....	1/2-13 x 6 HH Capscrew
50.....	513547.....	2.....	Spacer - Front Caster
51.....	513648.....	2.....	9 x 3.50-4 W & T Assembly
	513807.....	2.....	Wheel & Hub
	513808.....	2.....	Tire - 9 x 3.50-4, 4 Ply
	513809.....	2.....	Roller Bearing
	513810.....	4.....	Bushing
52.....	805008.....	2.....	1/2 Reg. Spring Lockwasher
53.....	804509.....	2.....	1/2-13 Reg. Hex Nut
54.....	800292.....	6.....	3/8-16 x 1 HH Capscrew
55.....	809007.....	14.....	Nut - 3/8-16 Whizlock
56.....	805259.....	2.....	3/8 SAE Flatwasher
57.....	303327.....	6.....	3/8 Disc Spring Washer
58.....	302030.....	2.....	Cutter Housing - Complete
59.....	303105.....	1.....	Yoke
60.....	302201.....	2.....	Caster, 9" Smooth - Complete
61.....	800270.....	9.....	5/16-18 x 5/8 HH Capscrew
62.....	513338.....	2.....	Washer
63.....	800290.....	8.....	3/8-16 x 3/4 HH Capscrew

* Requires installation of mulching kit for proper mulching.

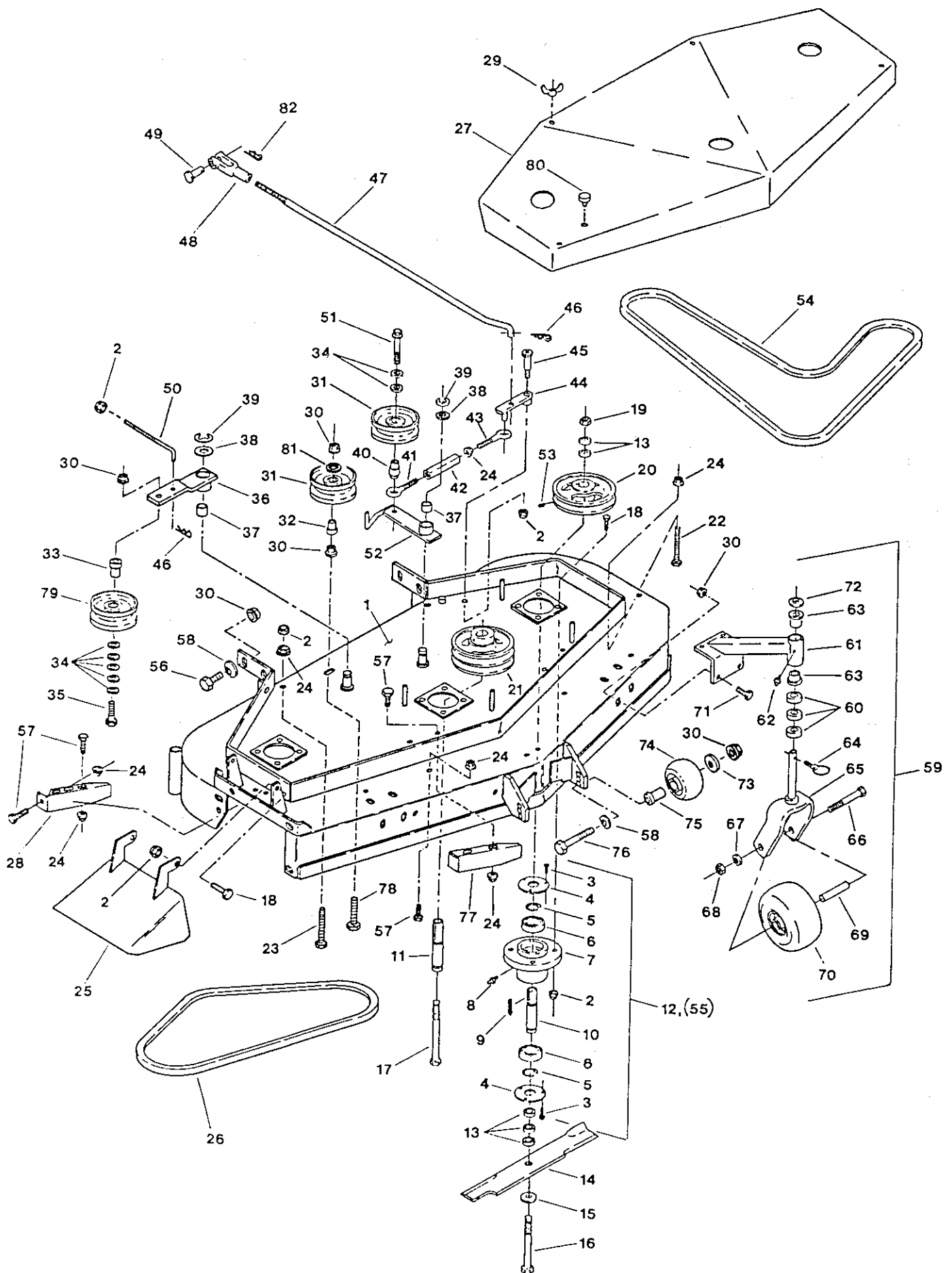


48" MOWER DECK

KEY	PART #	QTY.	DESCRIPTION
1	402043	1	48" Front Deck w/ Baffles
2	804256	17	5/16-18 Nyloc Hex Nut
3	801035	18	#10-24 x 3/8 Pan Sld. Head Machine Screw
4	303523	6	Cutter Housing Cap
5	808521	6	Snap Ring
6	303057	6	Cutter Housing Bearing
7	303189	3	Cutter Housing
8	811001	3	1/8 N.P.T. Straight Zerk
9	807263	3	1/4 Sq. x 1-1/4 Key
10	303187	2	Cutter Spindle -Outer
11	403033	1	Long Cutter Spindle - Center
12	302030	2	Cutter Housing - Complete-Outer
13	303164	15	Blade Drive Spacer
14	403026	3	Ultra High Lift Blade 16" (48")
	403059	3	1/4 x 16" High Lift Blade Optional (48")
	403086	3	Blade - Mulching (48")*
15	805268	3	5/8 Std. Flatwasher
16	800860	2	5/8-18 x 7.5 Gr 5 HH Cpscrew
17	800861	1	5/8-18 x 8 Gr 5 HH Capscrew
18	800273	14	5/16-18 x 1 HH Capscrew
19	804510	3	5/8-18 UNF Hex Nut
20	303073	2	Pulley - Cast Iron
	840023		Pro-Lock, Retaining 1 (.5cc Tube) Use on Pulley Bore
21	403032	1	Double Pulley
	840023		Pro-Lock, Retaining 1 (.5cc Tube) Use on Pulley Bore
22	800021	2	5/16-18 x 3 HH Tapbolt
23	800020	1	5/16-18 x 3.5 HH Tapbolt
24	809001	19	5/16-18 Whizlock Nut
25	302054	1	Chute Assembly
26	403025	1	Vee Belt - Front Deck
27	402058	1	Shield Weldment-48" (Viking Hyd)
28	302189	3	Dogleg Baffle
29	803014	3	5/16 NC Wing Nut
30	809007	13	Nut - 3/8-16 Whizlock
31	603843	2	Idler Pulley
32	513338	2	Washer
33	603496	1	Bushing - Idler Bearing
34	805259	7	Flat Washer - 3/8 SAE
35	800296	1	3/8-16 x 2.0 HH Capscrew
36	402017	1	Idler Arm, Rt. Comp. w/Bushing
37	303144	1	Powder Metal Bearing
38	303352	2	Washer - Spindle
39	808505	2	E-Ring f/.875 Rd.

KEY	PART #	QTY.	DESCRIPTION
40	303434	1	Engagement Bushing
41	303348	1	Left Thd. Eye Bolt
42	303236	1	Turnbuckle Body
43	303238	1	Right Thd. Eye Bolt
44	302198	1	Assist Arm
45	809011	1	3/8 x 3/4 Shoulder Bolt
46	806003	2	Hairpin Cotter
47	323174	1	Assist Arm Linkage
48	303105	1	Yoke
49	808280	1	5/16 x 1 Clevis Pin
50	403015	1	Belt Tension Rod
51	803003	1	3/8-16 x 1-3/4 Whizlock Bolt
52	302129	1	Engagement Arm w/Bushing
53	803310	6	Setcrew - 5/16-18 x 3/8 Knurl Cuppoint
	840022		Pro-Lock, Nut Type (.5 ml Tube) Use on Setscrews
54	303499	1	Vee Belt - Main Deck
55	402006	1	Center Cutter Housing - Complete
56	800292	6	3/8-16 x 1 HH Capscrew
57	800270	15	5/16-18 x 5/8 HHCS
58	303327	6	3/8 Disc Spring Washer
59	302201	2	Caster, 9" Smooth - Complete
60	303314	6	Spacer - 10" Caster
61	302194	2	Caster Wheel Support Weldment
	302203	2	Caster Wheel Support Weldment w/Bearings
62	811001	2	Grease Zerk - 1/8 NPT
63	303514	4	Flange Thrust Bearing
64	809020	2	Quick Pin - 10" Caster
65	302200	2	Caster Weldment - Mid-Size
66	800334	2	1/2-13 x 6 HH Capscrew
67	805008	2	1/2 Reg. Spring Lockwasher
68	804509	2	1/2-13 Reg. Hex Nut
69	513547	2	Spacer - Front Caster
70	513648	2	9 x 3.50-4 W & T Assembly
	513807	2	Wheel & Hub
	513808	2	Tire - 9x 3.50-4, 4 Ply
	513809	2	Roller Bearing
	513810	4	Bushing
71	800290	8	3/8-16 x 3/4 HH Capscrew
72	806753	1	3/32 x 1/2 Cotter Pin
73	805258	1	5/16 Std. Flat Washer

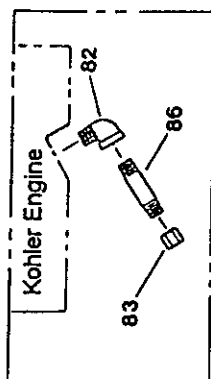
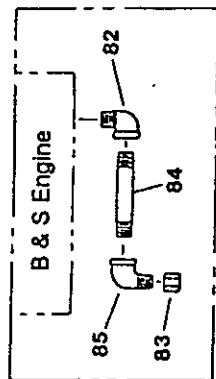
* Requires installation of mulching kit for proper mulching.



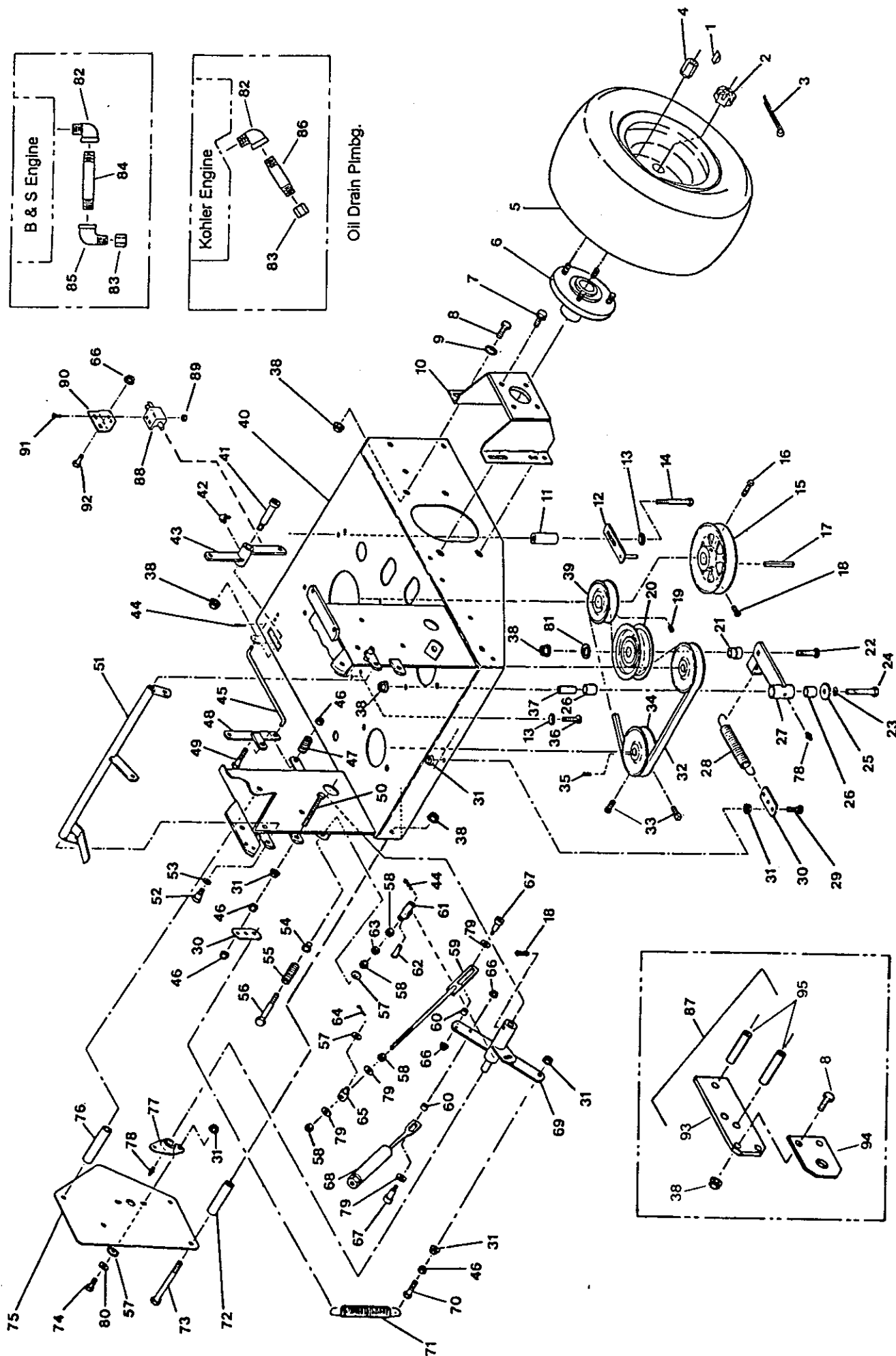
52" MOWER DECK

KEY	PART #	QTY	DESCRIPTION	KEY	PART #	QTY	DESCRIPTION
1	402060	1	52" Rigid Deck w/ Baffles/Decals	42	303236	1	Turnbuckle
2	804256	17	5/16-18 Nyloc Hex Nut	43	303238	1	RH Thd. Eye Bolt
3	801035	18	#10-24x3/8 Pan Sltd Hd Mch Scrw	44	302198	1	Assist Arm
4	303523	6	Cutter Housing Cap	45	809011	1	3/8 x 3/4 Shoulder Bolt
5	808521	6	Retaining Ring	46	806003	3	Hairpin Cotter
6	303057	6	Cutter Housing Bearing	47	403111	1	Linkage, 52" Viking Hydro
7	303189	3	Cutter Housing	48	303105	1	Yoke
8	811001	3	1/8 NPT Str Zerk	49	808280	1	5/16 x 1 Clevis Pin
9	807263	3	1/4 Sq x 1-1/4 Key	50	403107	1	Linkage, 52" Belt Tension
10	303187	2	Cutter Spindle - Outer	51	803003	1	3/8-16 x 1.75 Whlz Lock Bolt
11	403033	1	Cutter Spindle - Center	52	302129	1	Engagement Arm w/bushing
12	302030	2	Cutter Housing (Complete) Outer	53	803310	6	5/16-18x3/8 Setscrew, knurled cuppoint
13	303164	15	Blade Drive Spacer		840022		Pro-Lock, Nut type (.5 ml tube) - Use on Setscrew Threads
14	303527	3	Blade-18" High Lift	54	403088	1	Belt, blade Drive - 52" Vik Hydro
	303495	3	Blade Mulching *	55	402006	1	Cutter Housing(complete) centr
	303439	3	Blade - Low Lift	56	800292	6	3/8-16 x 1.0 HHCS
	303283	3	1/4 x 18" High Lift Blade	57	800270	15	5/16-18 x 5/8 HHCS
15	805268	3	5/8 Std Flat Washer	58	303327	8	3/8 Spring Disc Washer
16	800860	2	5/8-18 x 7.5 Gr 5 HHCS	59	302201	2	Caster, 9" Smooth-complete
17	800861	1	5/8-18 x 8.0 Gr 5 HHCS	60	303314	6	Spacer - 10" Caster
18	800273	14	5/16-18 x 1.0 HHCS	61	302194	2	Caster Wheel Support Wldmnt
19	804510	3	5/8-18 Hex Nut		302203	2	Caster Whl Supp Wldmnt w/brgs
20	303073	2	Pulley	62	811001	2	Grease Zerk - 1/8 Npt.
	840023		Pro-Lock Retaining 1 (.5 cc tube) - Use on Pulley Bore	63	303514	4	Flange Thrust Bearing
21	403032	1	Pulley - Double	64	809020	2	Quick Pin - 10" caster
	840023		Pro-Lock Retaining 1 (.5 cc tube) - Use on Pulley Bore	65	302200	2	Caster Weldment
22	800021	2	5/16-18 x 3.0 HH Tap Bolt	66	800334	2	1/2-13 x 6.0 HHCS
23	800020	2	5/16-18 x 3.5 HH Tap Bolt	67	805008	2	1/2 Reg. Spring Lockwasher
24	809001	20	5/16-18 Whizlock Hex Nut	68	804509	2	1/2 Reg. Hex Nut
25	602571	1	Chute Assembly	69	513547	2	Spacer, Front Caster
26	403105	1	Belt RH Blade	70	513648	2	9 x 3.50 -4 Wheel & Tire Assy
27	402059	1	Belt Shield/Decal Assy (52" Vik Hydro)		513807	2	Wheel & Hub
28	402057	1	Baffle Wldmnt. Discharge		513808	2	Tire, 9 x3.50-4, 4 Ply
29	803014	4	5/16-18 Wing Nut		513809	2	Roller Bearing
30	809007	19	3/8-16 Whiz Lock Hex Nut		513810	4	Bushing
31	603843	2	Idler Pulley	71	800290	8	3/8-16 x 3/4 HHCS
32	403074	1	Bushing, Idler	72	513338	2	Washer
33	603496	1	Bushing, Idler	73	373034	2	Washer, Pivot
34	805259	7	3/8 SAE flat Washer	74	603299	2	Roller, Anti-Scalp
35	800296	1	3/8-16 x 2.0 HHCS	75	603602	2	Bushing, roller
36	402053	1	Arm Wldmnt w/bushing	76	800807	2	3/8-16 x 4.0 HHCS Gr 8
37	303144	2	Bushing, Powdered Metal	77	402055	2	Baffle Wldmnt - 52"
38	303352	2	Washer, spindle	78	800029	1	3/8-16 x 2.25 HH Tap Bolt
39	808505	2	E-Ring	79	403119	1	Idler Pulley "V"
40	303434	1	Engagement Bushing	80	513291	1	Bumper
41	303348	1	LH Thd. Eye Bolt	81	805258	1	5/16 Std Flat Washer
				82	806753	1	3/32 x 1/2 Cotter Pin

* Requires Installation of Mulching Kit for proper Mulching.



Oil Drain Plug.

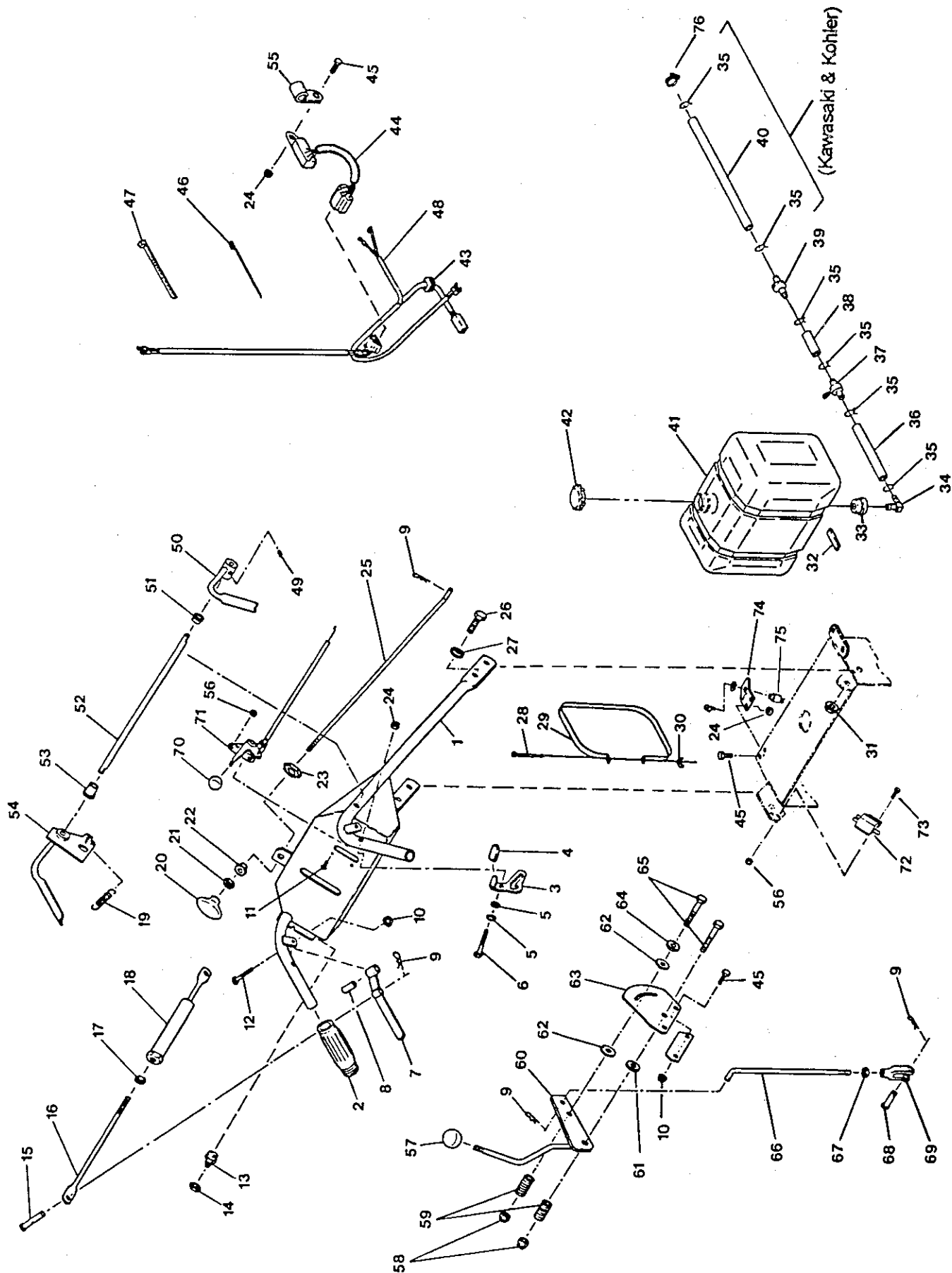


ENGINE DECK GROUP

KEY	PART #	QTY.	DESCRIPTION	KEY	PART #	QTY.	DESCRIPTION
1.....	807019.....	2.....	1.000 x .250 Woodruff Key	46.....	804256.....	7.....	5/16-18 Nyloc Nut
2.....	809068.....	2.....	3/4-16 Slotted Hex Nut	47.....	323245.....	1.....	Compression Spring
3.....	806800.....	2.....	9/64 X 1-1/2 Cotter Pin	48.....	322090.....	1.....	Bellcrank Weldment
4.....	513011.....	8.....	Wheel Nut	49.....	800277.....	1.....	5/16-18 x 2 HHCS
5.....	603714.....	2.....	Tire & Wheel Assembly	50.....	800021.....	2.....	5/16-18 x 3 HH Tap Bolt
	603427.....	1.....	Tire	51.....	322096.....	1.....	Crank Weldment
	603715.....	1.....	Wheel	52.....	809056.....	2.....	375 x .375 Shoulder Bolt
6.....	602997.....	2.....	Hub, 4 Bolt - Tapered - Use Anti-Seize Compound on tapered bore of Hub	53.....	805259.....	2.....	3/8 SAE Flat Washer
7.....	803045.....	8.....	3/8-16 x 3/4 Whizlock Bolt	54.....	603735.....	2.....	Bushing - Nylon Flanged
8.....	800292.....	8.....	3/8-16 x 1 HHCS	55.....	603807.....	2.....	Spring - Neutral Return
9.....	303327.....	8.....	3/8 Spring Disc Washer	56.....	603737.....	2.....	Bolt - Neutral Return
10.....	322088.....	2.....	Motor Mount (36")	57.....	805256.....	8.....	1/4 Std. Flat Washer
	402045.....	2.....	Motor Mount (48" & 52")	58.....	804521.....	8.....	5/16-24 Hex Nut
11.....	323228.....	3.....	Spacer - Belt Guide	59.....	602742.....	2.....	Rod - Control Arm Weldment
12.....	322110.....	3.....	Belt Guide	60.....	603903.....	4.....	Spacer
13.....	303334.....	4.....	5/16 Spring Disc Washer	61.....	303105.....	2.....	Adjustable Yoke
14.....	809065.....	2.....	M8-1.25 x 75mm HHCS (36" Kaw & Kohler)	62.....	808280.....	2.....	5/16-1 Clevis Pin
	809065.....	3.....	M8-1.25 x 75mm HHCS (48" & 52" Kaw & Kohler)	63.....	804758.....	2.....	5/16-24 Hex Jam Nut
	800283.....	3.....	5/16-18 x 3-1/2 HHCS (B & S)	64.....	806753.....	2.....	3/32 x 1/2 Cotter Pin
15.....	403087.....	1.....	Sheave - Blade Drive - 48"	65.....	603676.....	2.....	Swivel
	303498.....	1.....	Sheave - Blade Drive - 36"	66.....	809012.....	6.....	1/4-20 Whizlock Nut
			Use Anti-seize Compound on Pulley Bore	**67.....	809057.....	4.....	Shoulder Bolt - .312 x .750
**16.....	803046.....	1.....	5/16-18 x 1 Sq. Hd. Cuppoint SS	68.....	602692.....	2.....	Housing Weldment
17.....	807264.....	1.....	1/4 Sq. x 2-5/8 Key	69.....	322092.....	1.....	Left Hand Arm Weldment
**18.....	803022.....	3.....	5/16-18 x 5/8 Sq. Hd. Cuppoint SS		322094.....	1.....	Right Hand Arm Weldment (Not Shown)
**19.....	803310.....	2.....	5/16-18 x 3/8 Setscrew	70.....	800274.....	2.....	5/16-18 x 1-1/4 HHCS
20.....	603843.....	1.....	Idler Pulley	71.....	603693.....	2.....	Extension Spring
21.....	603496.....	1.....	Bushing - Idler	72.....	323197.....	4.....	Spacer - Short
22.....	807517.....	1.....	3/8-16 x 1-3/4 Short Sq. Neck Carr. Bolt	73.....	800302.....	8.....	3/8-16 x 4 HHCS
23.....	805006.....	1.....	3/8 Hvy. Spring Lockwasher	74.....	800271.....	4.....	5/16-18 x 3/4 HHCS
24.....	800298.....	1.....	3/8-16 x 2-1/2 HHCS	75.....	323179.....	2.....	Shield - Hydro Control
25.....	373034.....	1.....	Swivel Washer	76.....	323195.....	4.....	Spacer - Long
26.....	513034.....	2.....	Pivot Bearing	77.....	543514.....	2.....	Flange Bearing
27.....	602521.....	1.....	Idler Arm Assy. - w/Bearings	78.....	811006.....	3.....	1/4-28 Str. Zerk
	602458.....	1.....	Idler Arm Assy. w/o Bearings	79.....	805257.....	8.....	5/16 SAE Flat Washer
28.....	603402.....	1.....	Extension Spring	80.....	805005.....	4.....	5/16 Hvy Lock Washer
29.....	800273.....	1.....	5/16-18 x 1 HHCS	81.....	805258.....	1.....	5/16 Std. Flat Washer
30.....	603801.....	3.....	Spring Anchor	*82.....	303431.....	1.....	Street Elbow-3/8 NPT - Brass
31.....	809001.....	12.....	5/16-18 Whizlock Nut	83.....	543233.....	1.....	Cap - 3/8 NPT
32.....	323225.....	1.....	Belt - Pump Drive	*84.....	543232.....	1.....	Nipple - 4.0 x 3/8 NPT
**33.....	803050.....	4.....	5/16-18 x 3/4 Sq. Hd. Cuppoint SS	*85.....	403124.....	1.....	Street Elbow-3/8 NPT - Galv.
34.....	603778.....	2.....	Sheave - Pump	*86.....	323326.....	1.....	Nipple - 3.0 x 3/8 NPT
35.....	807272.....	2.....	5 mm Sq. x 25 mm Machine Key	87.....	301022.....	1.....	Sulky Hitch Kit - Vik Hydro
36.....	809018.....	1.....	M8-1.25 x 30 mm HHCS (48" & 52" Kaw & Kohler)	88.....	513051.....	1.....	Blade Engagement Switch
	809018.....	2.....	M8-1.25 x 30 mm HHCS (36" Kaw & Kohler)	89.....	804252.....	2.....	10-24 Nyloc Nut
	800275.....	1.....	5/16-18 x 1-1/2 HHCS (B & S)	90.....	323213.....	1.....	Switch Bracket
37.....	603044.....	1.....	Bushing - Idler Pivot	91.....	801039.....	2.....	10-24 x 5/8 Machine Screw
38.....	809007.....	19.....	3/8-16 Whizlock Nut	92.....	800251.....	2.....	1/4-20 x 5/8 HH Capscrew
39.....	323223.....	1.....	Sheave - Pump Drive	93.....	373036.....	2.....	Hitch Mount
	840023.....		Pro-Lock Retaining 1 (.5cc Tube) Use on Pulley Bore	94.....	323238.....	2.....	Bracket, Hitch Adapter
40.....	322084.....	1.....	Engine Deck Weldment	95.....	323240.....	4.....	Spacer, Shield
41.....	809062.....	1.....	Shoulder Bolt - .500 x 1.75				
42.....	811008.....	1.....	Zerk				
43.....	322108.....	1.....	Bellcrank Assy. w/Zerk				
44.....	806003.....	5.....	Hairpin Cotter				
45.....	323172.....	1.....	Linkage - Blade Eng.				

* Use Teflon Pipe sealant or Equivalent on Threads.

** Use P/N 840022 Pro-Lock, Nut Type (.5ml Tube) on Threads



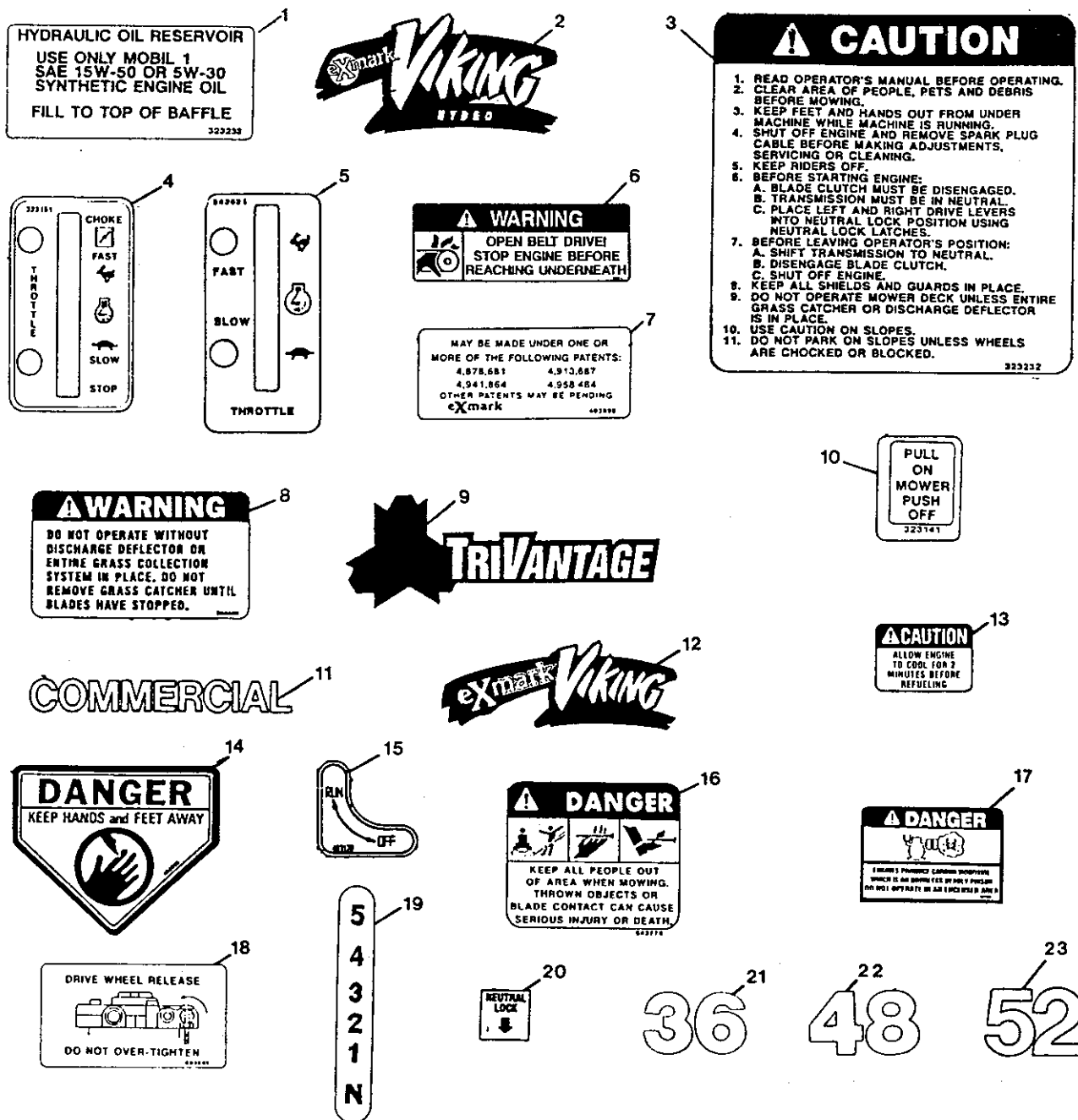
UPPER HANDLE & CONTROLS

KEY PART# QTY. DESCRIPTION

1.....	322098.....	1.....	Handle Weldment
2.....	303097.....	2.....	Handle Grip
3.....	603767.....	1.....	Latch - Hydro Drive Lever - RH (Shown)
	603769.....	1.....	Latch - Hydro Drive Lever - LH
4.....	303019.....	2.....	Grip - Vinyl Latch
5.....	303435.....	4.....	1/4 Disc Spring Washer
6.....	800257.....	2.....	1/4-20 x 1-3/4 HHCS
7.....	602837.....	1.....	Drive Lever Weldment - LH (Shown)
	602839.....	1.....	Drive Lever Weldment - RH
8.....	603749.....	2.....	Bushing - Drive Lever
9.....	806003.....	5.....	Hairpin Cotter
10.....	809012.....	4.....	1/4-20 Whizlock Nut
11.....	807513.....	2.....	#10-24 x 1/2 RHSN Bolt
12.....	800256.....	2.....	1/4-20 x 1-1/2 HHCS
13.....	303372.....	1.....	Operator Control Switch
14.....	803034.....	1.....	9/16 Pin Nut
15.....	603792.....	2.....	Pin - Clevis
16.....	323192.....	2.....	Rod - Drive Lever Linkage - Use Anti-Seize Compound on threads
17.....	804506.....	2.....	5/16-18 Regular Nut
18.....	602692.....	2.....	Housing Weldment
19.....	303363.....	1.....	Actuator Spring
20.....	323134.....	1.....	Knob - Push/Pull
21.....	804751.....	1.....	5/16-18 Jam Nut
22.....	323143.....	1.....	Nylon Bushing - .38 I.D.
23.....	323142.....	1.....	Push Nut .50 Shaft
24.....	804255.....	3.....	1/4-20 Nyloc Nut (Kaw & Kohler)
	804255.....	5.....	1/4-20 Nyloc Nut (B & S)
25.....	323181.....	1.....	Linkage - Blade Push/Pull
26.....	800292.....	4.....	3/8-16 x 1 HHCS
27.....	303327.....	4.....	3/8 Disc Spring Washer
28.....	801062.....	2.....	1/4-20 x 3 Machine Screw
29.....	303465.....	2.....	Strap - 5 Gallon Fuel Tank
30.....	543792.....	2.....	1/4-20 Nyloc Wingnut
31.....	809007.....	4.....	3/8-16 Whizlock Nut
32.....	303315.....	2.....	Gas Tank Pad
33.....	513645.....	1.....	Bushing - Fuel Valve
34.....	543277.....	1.....	Elbow - Fuel Tank
35.....	303077.....	6.....	Clamp - Gas Line (Kohler)
	303077.....	4.....	Clamp - Gas Line (B & S)
	303077.....	5.....	Clamp - Gas Line (Kawasaki)
36.....	603955.....	1.....	Fuel Line - 6" (Kawasaki & Kohler)
	543649.....	1.....	Fuel Line - 7" (B & S)
37.....	603770.....	1.....	Valve - Gas
38.....	603776.....	1.....	Fuel Line - 2.5" (Kawasaki & Kohler)
	303471.....	1.....	Fuel Line - 12" (B & S)
39.....	303197.....	1.....	Gas Filter
40.....	603954.....	1.....	Gas Line - 13.75" (Kohler)
	303471.....	1.....	Gas Line - 12.0" (Kawasaki)
41.....	543364.....	1.....	Gas Tank
42.....	513508.....	1.....	Gas Cap
43.....	543296.....	1.....	Grommet
44.....	323145.....	1.....	Interlock Module (Kawasaki and B & S)
	323146.....	1.....	Interlock Module (Kohler)
45.....	800251.....	3.....	1/4-20 x 5/8 HHCS (Kaw & Kohler)
	800251.....	5.....	1/4-20 x 5/8 HHCS (B & S)
46.....	303287.....	2.....	Plastic Tie, 5.5 x .044 x .1
47.....	303335.....	2.....	Plastic Tie, 7-15/16

KEY PART# QTY. DESCRIPTION

48.....	323231.....	1.....	Wiring Harness (Kawasaki)
	323230.....	1.....	Wiring Harness (Kohler)
	403112.....	1.....	Wiring Harness (B & S)
49.....	803322.....	2.....	5/16-24 x 5/16 Setscrew
	840022.....		Pro-Lock, Nut Type (.5 cc Tube) Use on Setscrews
50.....	302138.....	1.....	Lever Weldment - OPC - RH
	840023.....		Pro-Lock Retaining 1 (.5 ml Tube) Use on Inside bore of OPC Hub (See Operator's Manual)
51.....	303365.....	1.....	Nylon Bushing
52.....	303364.....	1.....	Connecting Rod
53.....	303369.....	1.....	Bushing - Flanged
54.....	602507.....	1.....	Lever Weldment - OPC - LH
	840023.....		Pro-Lock Retaining 1 (.5 ml Tube) Use on Inside bore of OPC Hub (See Operator's Manual)
55.....	603727.....	1.....	Clip - .56 Loom
56.....	804252.....	2.....	#10-24 Nyloc Nut
57.....	603175.....	1.....	Knob - 1-3/8
58.....	804256.....	2.....	5/16-18 Nyloc Nut
59.....	323245.....	2.....	Spring - Compression
60.....	602733.....	1.....	Lever Weldment - Shift
61.....	805257.....	1.....	5/16 Flat Washer
62.....	323244.....	2.....	Washer - Friction
63.....	603730.....	1.....	Plate - Shift Lever
64.....	603716.....	1.....	Washer - Friction
65.....	800277.....	2.....	5/16-18 x 2 HHCS
66.....	323183.....	1.....	Rod - Speed Control
67.....	804758.....	1.....	5/16-24 Jam Nut
68.....	808280.....	1.....	Clevis Pin
69.....	303105.....	1.....	Yoke - Adjustable
70.....	513592.....	1.....	Knob - Red Ball
71.....	323129.....	1.....	Throttle Cable (Kaw & Kohler)
	543697.....	1.....	Throttle Cable (B & S)
72.....	513051.....	1.....	Switch - Neutral Lockout
73.....	801040.....	2.....	#10-24 x .75 Machine Screw
74.....	403118.....	1.....	Bracket, Key Switch (B & S)
75.....	403121.....	1.....	Switch, ON-Off Key (B & S)
	603511.....	1.....	Ignition Keys
76.....	303308.....	1.....	Clamp - Gas Line (Kawasaki)



DECALS

KEY PART # QTY. DESCRIPTION

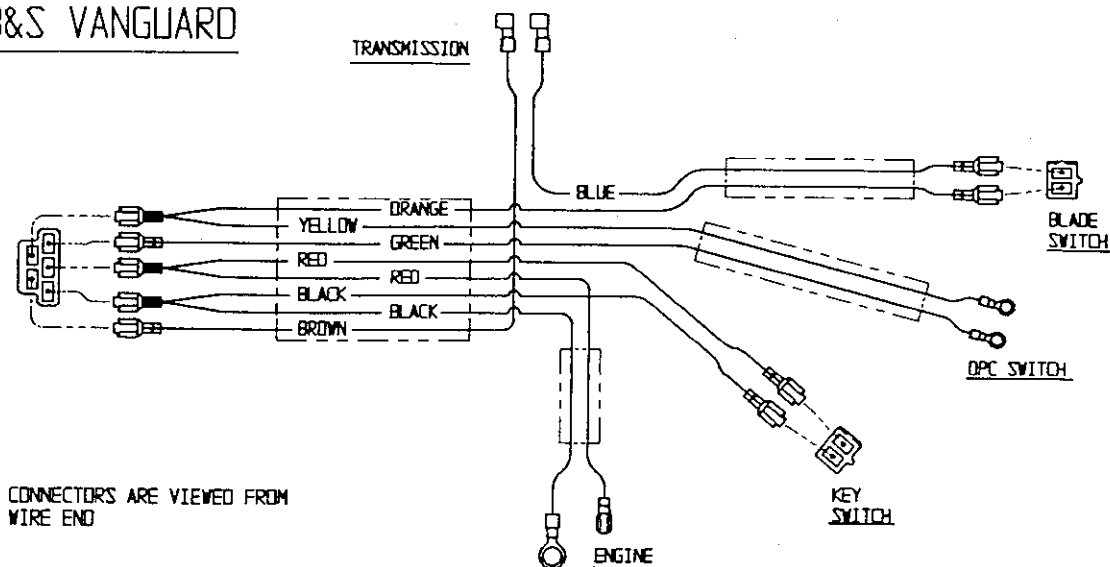
1.....	323233	1.....	Decal - Hydraulic Tank
2.....	323319	1.....	Decal - Large Viking
3.....	323232	1.....	Decal - Instructional
4.....	323151	1.....	Decal - Throttle/Choke
5.....	543631	1.....	Decal - Throttle (B & S)
6.....	303517	1.....	Decal - Belt Drive
7.....	403080	1.....	Decal - Patent
8.....	303508	1.....	Decal - Discharge Warning
9.....	303520	1.....	Decal - TriVantage
10.....	323141	1.....	Decal - Mower Engagement
11.....	403034	1.....	Decal - Commercial

KEY PART # QTY. DESCRIPTION

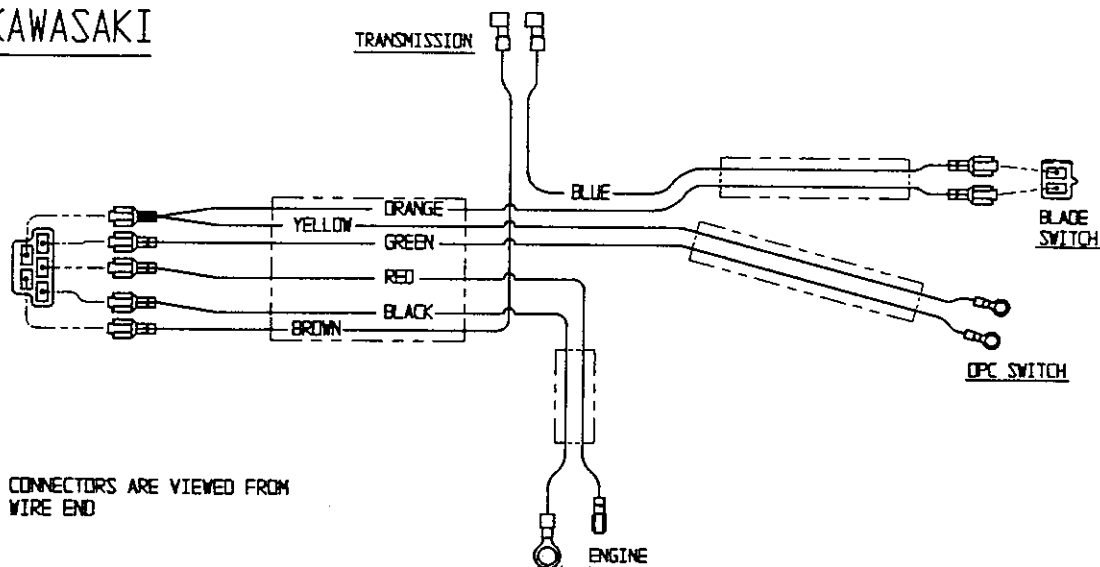
12.....	323321	1.....	Decal - Small Viking
13.....	303293	1.....	Decal - Caution
14.....	403005	1.....	Decal - Danger
15.....	403120	1.....	Decal - Off/Run
16.....	543774	1.....	Decal - Danger
17.....	303481	1.....	Decal - Carbon Monoxide
18.....	603845	1.....	Decal - Drive Wheel Release
19.....	603804	1.....	Decal - Shifter
20.....	303102	2.....	Neutral Lock Label
21.....	303096	1.....	Decal - 36"
22.....	403020	1.....	Decal - 48"
23.....	603622	1.....	Decal - 52"

WIRING SCHEMATICS

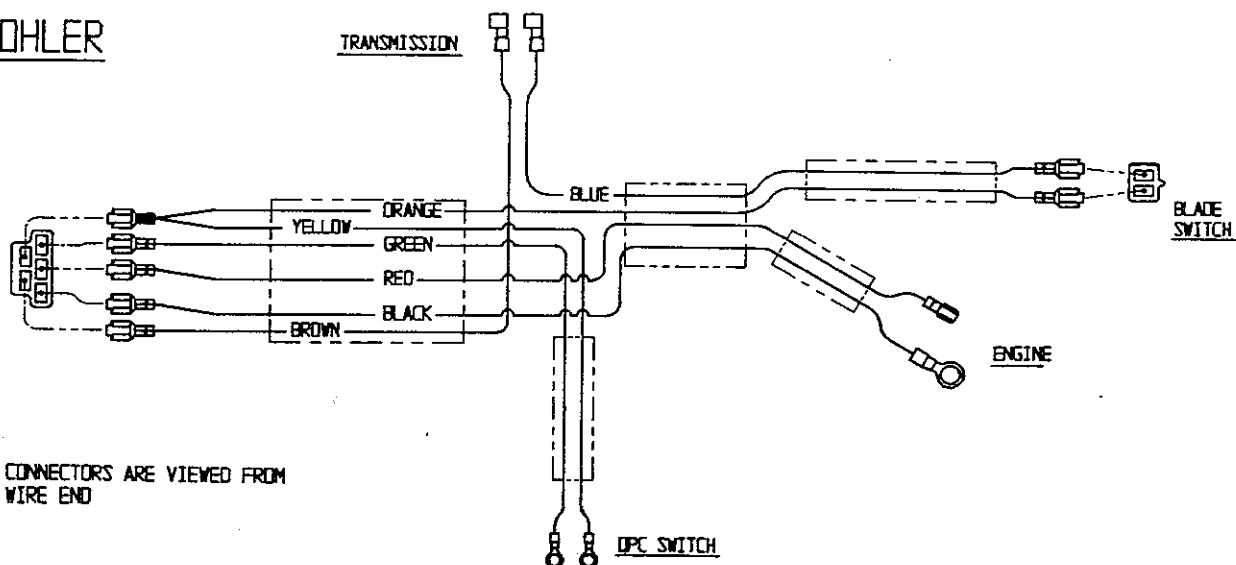
B&S VANGUARD



KAWASAKI



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NOTES

NOTES

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