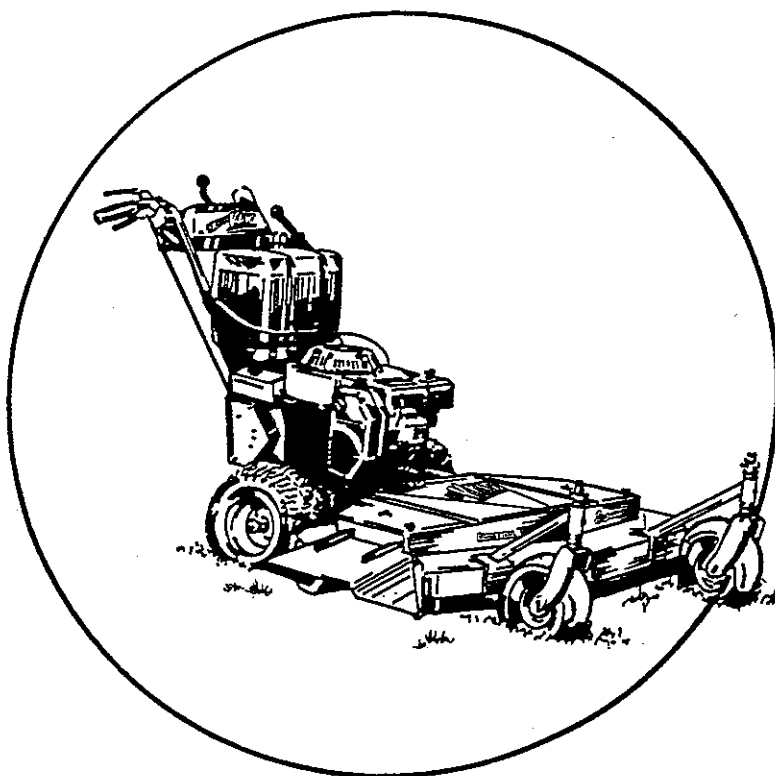




For Serial Nos.
102,000 and Higher

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 part number, description and quantity of the part needed.

The Serial No. plate is located on the top, right hand side of the engine frame. The Serial No. plate for the deck is located on the front support pin gusset on the right hand side of the deck.

For ease of ordering and reference, we suggest that you record the information requested in the following identification table.

Model No. _____

Serial No. _____

Date Purchased _____

Purchased From _____

Part No. 850319

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SAFETY RECOMMENDATIONS FOR ALL EXMARK MOWER USERS

TRAINING

1. Read the instructions carefully. Be familiar with the controls and the proper use of the equipment. Regard the Exmark mower as a piece of power equipment and teach this regard to all who operate this unit.
2. Avoid mowing while people, especially when children or pets, are nearby. Never allow children, teenagers, or people unfamiliar with these instructions to use the mower. 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, wearing baggy clothing or trousers with loose strings, or while wearing open sandals.
3. Thoroughly inspect the area where the equipment will be used. Remove all stones, sticks, wire, bones and other foreign objects which can result in personal injury.

OPERATION



WARNING

- **Failure to follow safety instructions and cautious operating practices can result in serious injury.**
1. This mower was designed for one operator only. Keep all others away from mower during operation.
 2. Give complete undivided attention to the job at hand.
 3. Mow only in daylight or good artificial light.



DANGER

- **Do Not** operate the engine in a confined area where dangerous carbon monoxide fumes can collect.
4. When feasible, avoid operating the equipment in wet grass.
 5. Mow across the face of steep slopes, never up and down. Use extreme caution when changing directions on slopes. **Do Not** mow excessively steep slopes.
 6. Use extreme caution when backing up.
 7. Stop the blades when transporting the mower across any surface other than grass, and when transporting the mower to and from the area to be mowed.
 8. **Never** operate the mower with damaged guards, shields, or without operating safety devices in place. **Do Not** mow without grass deflector or entire grass collection system in place and in proper working condition.
 9. **Do Not** change the governor settings or overspeed the engine. Operating an engine at excessive speed may increase the hazard of personal injury.
 10. Fill the gas tank with the recommended fuel specified by the engine manufacturer.



DANGER

- **Fuel is highly flammable. Never remove the cap of the gas tank while engine is running or when engine is hot. Add fuel before starting the engine.**
 - **Refuel outdoors or in a well ventilated area. Do Not smoke when refueling or operating the equipment.**
 - **If fuel is spilled, Do Not attempt to start the engine. Move away from the spill and avoid creating any source of ignition or sparks until fuel vapors have dissipated.**
11. Before starting engine; place transmission in neutral, and disengage the blade and wheel drive clutches. Follow engine manufacturer recommendations for starting engine.
 12. Start the engine with feet well away from the blades.
 13. Keep hands, feet and clothing away from rotating parts while the mower is being operated.



CAUTION

- **The engine can become very hot. Always allow the engine to cool before servicing or making any repairs near the engine area.**

14. Stop the engine:

- Before refueling.
- Before making height adjustments.
- Before removing grasscatcher.

Stop the engine and remove ignition key:

- After striking a foreign object to inspect mower for damage. Make any necessary repairs before restarting and operating the mower.
- Whenever you leave the mower.
- Before cleaning blockages.
- Before checking, adjusting, servicing or clearing blockages.

 WARNING

- **Do Not** rely solely on mechanical or hydraulic jacks for support. Properly support the deck or mower using adequate jack stands or equivalent support.
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 when transporting the mower to and from the job site and when the mower will be stored and not in use for a few days.

MAINTENANCE AND STORAGE

 CAUTION

- Although hazard control and accident prevention are partially 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, storage and maintenance of the equipment.
 - It is essential that all operator safety guards and mechanisms be connected and in proper operating condition prior to mowing.
1. Follow the engine manufacturer's recommendations as detailed in the engine manual, for maintenance and service on the engine.
 2. Keep engine and engine area free of grass, leaves, excessive grease and oil, and other debris which can accumulate in these areas. Some of these materials can become combustible and result in a fire.
 3. Maximum mowing results and safety can be achieved if the mower is properly maintained and operated correctly.

4. Keep all guards, shields and other safety devices *in place* and in safe working condition.
5. Check all bolts and hydraulic fittings frequently to maintain proper tightness.
6. If carburetor adjustment is necessary, disengage the blade and wheel drive, stand to one side keeping hands and feet away from the mower deck, make appropriate adjustments.
7. Check for worn or deteriorating components and belts which could create a hazard. Replace or repair as necessary.
8. All replacement parts must be equivalent or the same as the parts supplied as original equipment.

 DANGER

- Fuel is *highly flammable*. **Do Not** store fuel in an enclosed area where heating appliance or open flame is present. Store fuel in a container designed specifically for that purpose.
9. Store fuel in a cool dry place. Keep fuel and mower in locked storage to prevent children from playing or tampering with them.

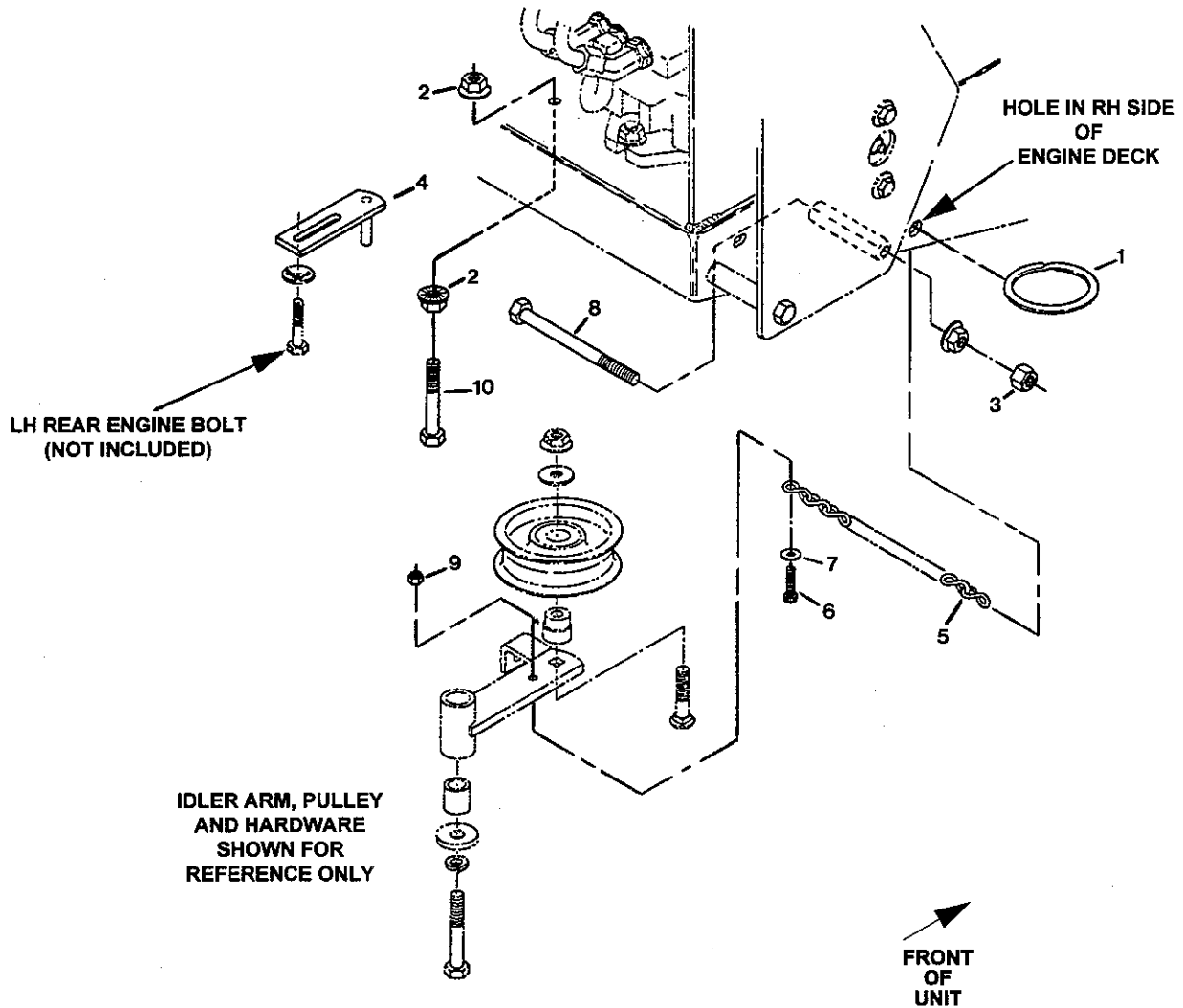
 CAUTION

- Hydraulic fluid escaping under pressure may have sufficient force to penetrate the 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 occur.
- Use paper or cardboard to check for leaks. **NEVER** use your hands.
- Safely relieve all pressure in the system before disconnecting the lines or before performing work on the hydraulic system.

SAFETY SIGNS

1. Familiarize yourself with the instruction and safety labels. They are critical to the safe operation of your Exmark commercial mower. Remove all grease, dirt and debris from safety signs. Safety signs must be replaced if they are missing or illegible.
2. 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 air bubbles.
3. When new components are installed, insure that current safety signs are affixed to the replaced component. New safety signs may be obtained from your authorized Exmark dealer or distributor, or from Exmark Mfg. Co. Inc.

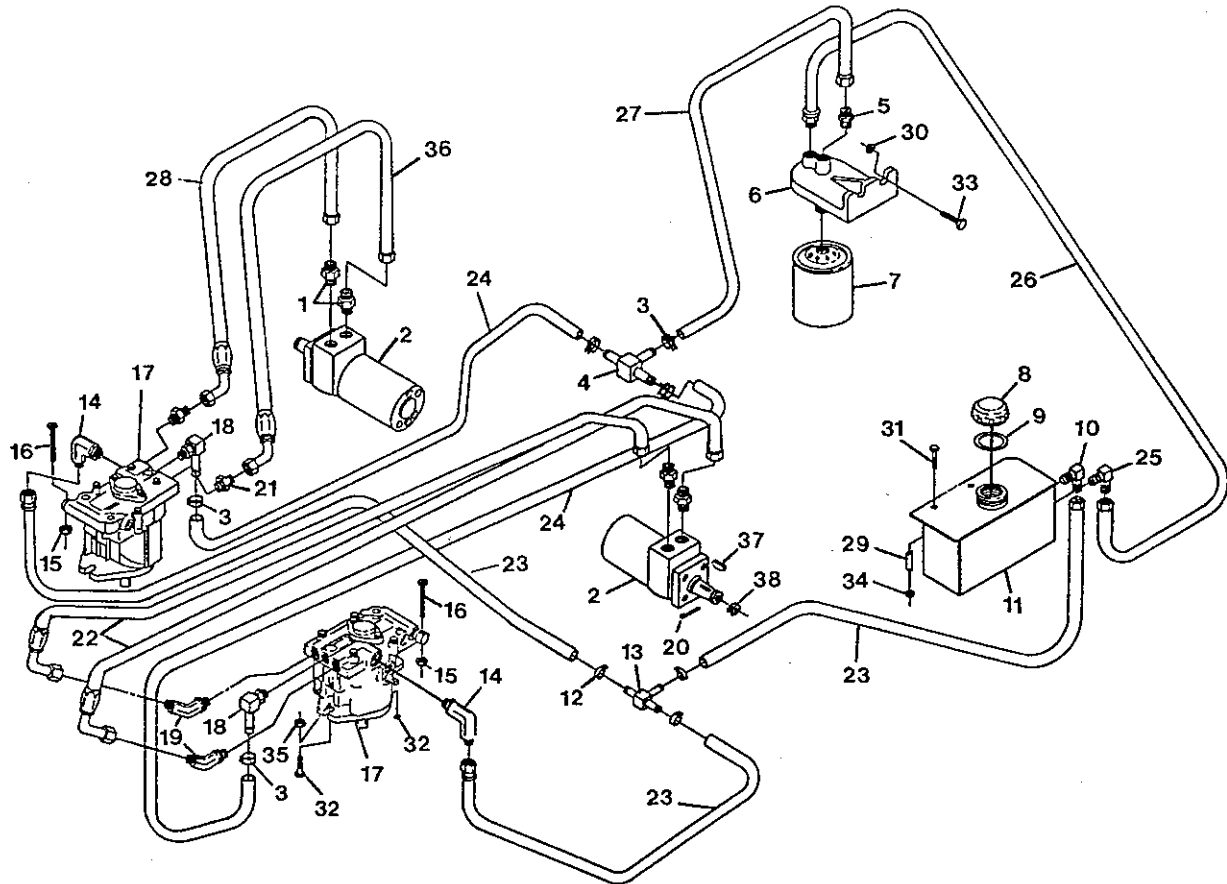
COLD WEATHER START KIT



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	323366	Split ring	1	6	809069	Screw, 10-24 x 7/8 hx sckt hd	1
2	809007	Nut, whizlock 3/8-16	2	7	805252	Washer, #10	1
3	804257	Nut, nylock 3/8-16	1	8	800303	Screw, 3/8-16 x 4 1/2	1
4	322110	Guide, belt	1	9	804252	Nut, nylock 10-24	1
5	323365	Chain, twist link	1	10	800297	Screw, 3/8-16 x 2 1/4	1

The complete replacement kit is offered as Part No. 321007.

HYDRAULICS GROUP



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	603991	Fitting, strght connector	4	(19)	603920	Boss O-Ring	1
	603919	Boss O-Ring	1	20	806800	Pin, cotter 9/64 x 1 1/2	2
	603992	Flare O-Ring	1	21	603990	Adapter, straight thread	2
2	603718	Wheel motor	2		603920	Boss O-Ring	1
3	603827	Clamp, hose	5		603992	Flare O-Ring	1
4	603721	Fitting, 3/8 Hose Tee	1	22	323241	Hose, hydro RH	2
5*	513510	Connector, male	1	23	602750	Hose, case drain	3
6	603720	Head, filter	1	24	303526	Hose, charge pump	2
7	513211	Element, oil filter	1	25*	603988	Elbow, 90°	1
8	513167	Cap, hydraulic reservoir	1	26	602985	Hose, supply	1
9	523103	Gasket, tank cap	1	27	602754	Hose, charge line	1
10*	603987	Elbow, 90°	1	28	523210	Hose, hydro LH	1
11	512166	Reservoir, hydraulic fluid	1	29	323218	Spacer, hydraulic tank	2
12	603826	Hose Clamp	3	30	809001	Nut, whizlock 5/16-18	2
13	603722	Fitting - 1/4 Hose Tee	1	31	800258	Screw, 1/4-20 x 2	2
14	513840	Elbow - 90°	2	32	800292	Screw, 3/8-16 x 1	4
	603921	O-Ring	1	33	800273	Screw, 5/6-18 x 1	2
15	804255	Nut, nylock 1/4-20	2	34	809012	Nut, whizlock 1/4-20	2
16	801060	Screw, 1/4-20 x 2	2	35	809007	Nut, whizlock 3/8-16	4
17	613042	Pump, hydro	2	36	523210	Hose, LH (36" deck)	1
18	603989	Elbow, 90°	2		403102	Hose, LH (48" & 52" decks)....	1
	603923	O-Ring	1	37	807019	Key, woodruff 1.0 x .25	2
19	523221	Elbow, 45°	2	38	809068	Nut, 3/4-16 - 2B slotted	2
	603992	Flare O-Ring	1				

* Use Teflon Pipe Sealant or equivalent on hydraulic reservoir and filter head fittings.

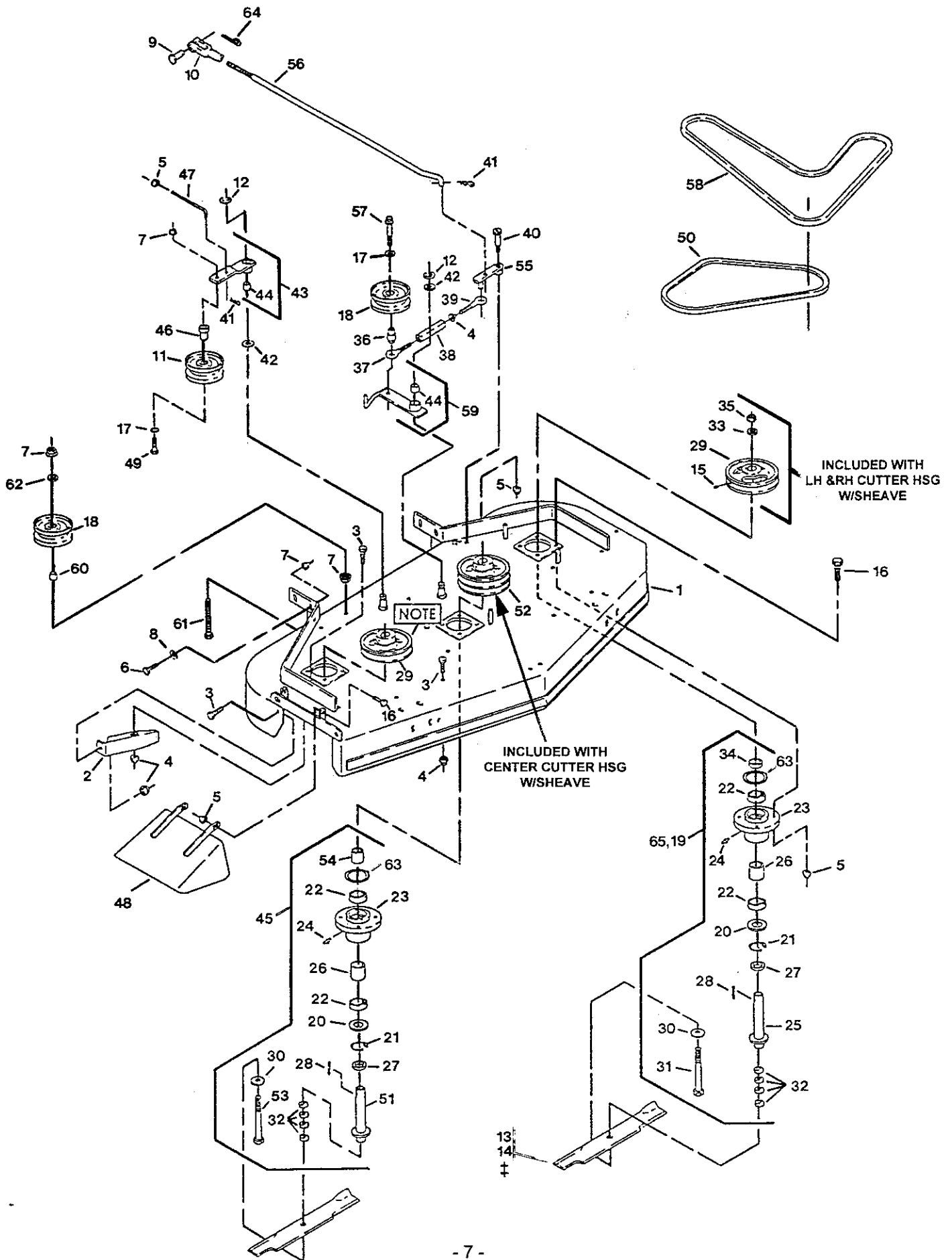
36" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	302217	Front deck w/baffles (36").....	1	36	322145	Fork wldmnt, caster.....	1
2	302189	Baffle, dogleg.....	2	37	302054	Chute.....	1
3	800270	Screw, 5/16-18 x 5/8.....	8	38	302129	Arm, engagement w/bushing.....	1
4	809001	Nut, whizlock 5/16-18.....	13	39	303144	Bearing, powder metal.....	1
5	323385	Knob, belt cover.....	4	40	800290	Screw, 3/8-16 x 3/4.....	8
6	809020	Quick pin, 10" caster.....	1	41	603843	Idler pulley (heavy duty).....	1
7	513338	Washer, special.....	1	42	322166	Cutter housing complete.....	2
8	805008	Lockwasher, 1/2.....	1	43	323402	Spacer, bearing sheave.....	1
9	804509	Nut, 1/2-13.....	1	44	323408	Shield, dust.....	1
10	804256	Nut, nylock 5/16-18.....	11	45	808506	Retaining ring.....	1
11	800293	Screw, 3/8-16 x 1 1/4.....	6	46	303057	Bearing, cutter housing.....	2
12	809007	Nut, whizlock 3/8-16.....	14	47	323315	Cutter housing.....	1
13	805259	Washer, 3/8.....	2	48	811001	Zerk, 1/8 N.P.T. (strght).....	1
14	303327	Washer, disc spring 3/8.....	6	49	322164	Cutter spindle.....	1
15	808280	Pin, clevis 5/16 x 1.....	1	50	323400	Spacer (long).....	1
16	303105	Yoke.....	1	51	323399	Spacer (short).....	1
17	806003	Cotter hairpin.....	1	52	323339	Washer, sheave (retaining)....	1
18	808505	E-Ring for .875 rd.....	1	53	303535	Pulley.....	1
19	803003	Screw, whzck 3/8-16 x 1 3/4..	1	54	804510	Nut, 5/8-18 UNF.....	1
20	303146	Blade, 18" high Lift.....	2	55	800861	Screw, 5/8-18 x 8.....	1
‡	303495	Blade, mulching.....	2	56	807267	Key, 1/4 x 3/16 x 1 1/4.....	1
	303439	Blade, low lift.....	2	57	303164	Spacer, blade drive.....	4
	303283	Blade, 1/4 x 18 (high lift).....	2	58	513208	Washer, 5/8 spring disc.....	1
21	800334	Screw, 1/2-13 x 6.....	1	59	303434	Bushing, engagement.....	1
22	513810	Bushing.....	2	60	303348	Eye bolt (left hand thread).....	1
23	513809	Roller bearing.....	1	61	303236	Turnbuckle body.....	1
24	513808	Tire, 9 x 3.50-4 4-ply.....	1	62	303238	Eye bolt (right hand thread)....	1
25	303352	Washer, spindle.....	1	63	302198	Arm, assist.....	1
26	513807	Wheel & hub.....	1	64	809011	Bolt, 3/8 x 3/4 (shoulder).....	1
27	323299	Belt, blade drive.....	1	65	323303	Linkage, assist arm.....	1
28	803310	Setscrew, 5/16-18 x 3/8.....	4	66	322153	Caster/mount, complete.....	2
f	840022	Prolock (Nut type) .5 ml tube..	1	67	302203	Support, caster (w/brngs).....	1
29	800273	Screw, 5/16-18 x 1.....	10	68	302194	Caster wheel support wldmnt.....	1
30	513648	Wheel & tire, complete.....	2	69	811001	Zerk, 1/8 N.P.T.....	1
31	303537	Stud, belt shield (short).....	2	70	303514	Flange, thrust bearing.....	2
32	303536	Stud, belt shield (long).....	2	71	303314	Spacer, 10" caster.....	4
33	302218	Shield, 36" Viking Hydro.....	1	72	322154	Caster wheel assembly.....	1
34	323417	Washer, belt cover mount.....	4	73	303542	O-Ring.....	1
35	513547	Spacer, front caster.....	1	74	806753	Pin, cotter 3/32 x 1/2.....	1

f Use Pro-Lock (Nut Type) on setscrew threads.

‡ Requires installation of Mulching Kit.

48" MOWER DECK



48" MOWER DECK

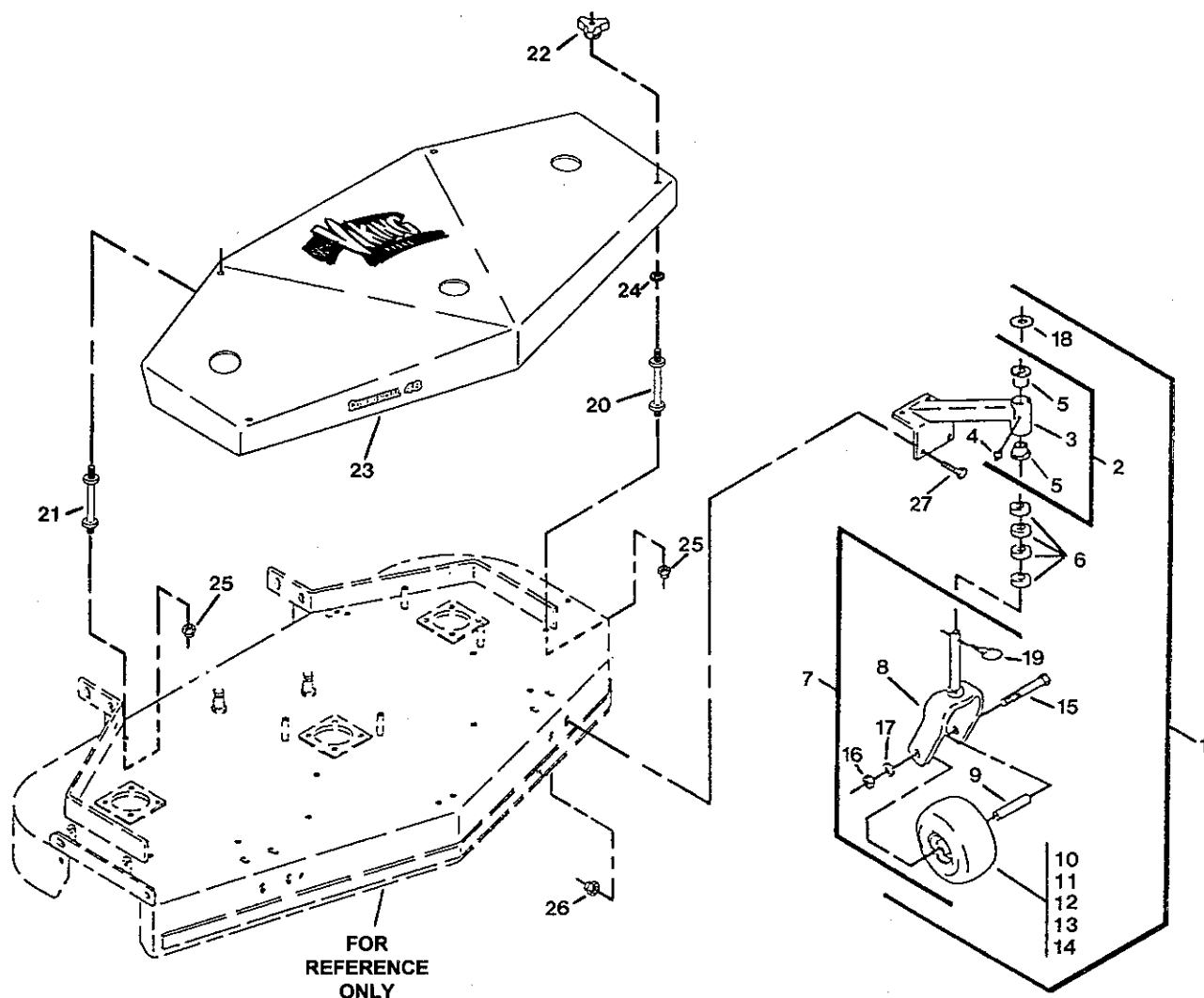
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	402084	Front Deck w/baffles (48")	1	33	323339	Washer, retainer (sheave).....	1
2	302189	Baffle, dogleg	3	34	323402	Spacer, bearing (sheave)	1
3	800270	Screw, 5/16-18 x 5/8	14	35	804510	Nut, 5/8-18 UNF	1
4	809001	Nut, whizlock 5/16-18	15	36	303434	Bushing, engagement.....	1
5	804256	Nut, nylock 5/16-18	16	37	303348	Eye bolt (left hand thread)	1
6	800293	Screw, 3/8-16 x 1 1/4	6	38	303236	Turnbuckle body	1
7	809007	Nut, whizlock 3/8-16	7	39	303238	Eye bolt (right hand thread)....	1
8	303327	Washer, disc spring 3/8	6	40	809011	Bolt, 3/8 x 3/4 (shoulder)	1
9	808280	Pin, clevis 5/16 x 1	1	41	806003	Hairpin	2
10	303105	Yoke	1	42	303352	Washer, spindle	2
11	403119	Pulley, idler "V"	1	43	402053	Idler arm, (w/bushing) cmplt... 1	
12	808505	E-Ring for .875 rd.	2	44	303144	Powder metal bearing	1
13	403026	Blade, Ultra High Lift 16"	3	45	402077	Housing, cutter w/sheave (center)	1
14	403059	Blade, 1/4 x 16 High Lift (optional)	3	46	603496	Bushing, idler bearing	1
‡	403086	Blade, mulching	3	47	403107	Rod, belt tension	1
15	803310	Setscrew, 5/16-18 x 3/8	6	48	302054	Chute	2
f	840022	Prolock (Nut type) .5 ml tube ..	1	49	800295	Screw, 3/8-16 x 1 3/4	1
16	800273	Screw, 5/16-18 x 1	14	50	403025	Belt, "V"	1
17	805259	Washer, 3/8	2	51	402075	Spindle, cutter hsgng (long).	1
18	603843	Idler pulley (heavy duty)	2	52	403133	Sheave (double groove)	1
19	322166	Housing, cutter w/sheave (LH) 1		53	800826	Screw, 5/8-18 x 8 1/2	1
20	323408	Dust shield	1	54	323404	Spacer, bearing (cntr sheave) 1	
21	808506	Retaining ring	1	55	302198	Arm, assist	1
22	303057	Cutter housing bearing	2	56	323303	Linkage, assist arm	1
23	323315	Cutter housing	1	57	803003	Screw, whzlk 3/8-16 x 1 3/4.. 1	
24	811001	Zerk, 1/8 N.P.T. (straight)	1	58	323300	Belt, drive (48" deck)	1
25	322164	Spindle, cutter, (LH)	1	59	302129	Arm, engagement	1
26	323400	Spacer (long)	1	60	543879	Spacer	1
27	323399	Spacer (short)	1	61	800029	Screw, 3/8-16 x 2 1/4	1
28	807267	Key, 1/4 x 3/16 x 1 1/4	1	62	805258	Washer, 5/16	1
29	303535	Sheave (single groove)	1	63	303542	O-Ring	1
30	513208	Washer, 5/8 spring disc	1	64	806753	Pin, cotter	1
31	800861	Screw, 5/8-18 x 8	1	65	322167	Housing, cutter w/sheave (RH) 1	
32	303164	Spacer, blade drive	4				

‡ Requires installation of Mulching Kit (Part No. MK48-2).

f Not Illustrated. Use Pro-Lock, Nut Type on setscrew threads.

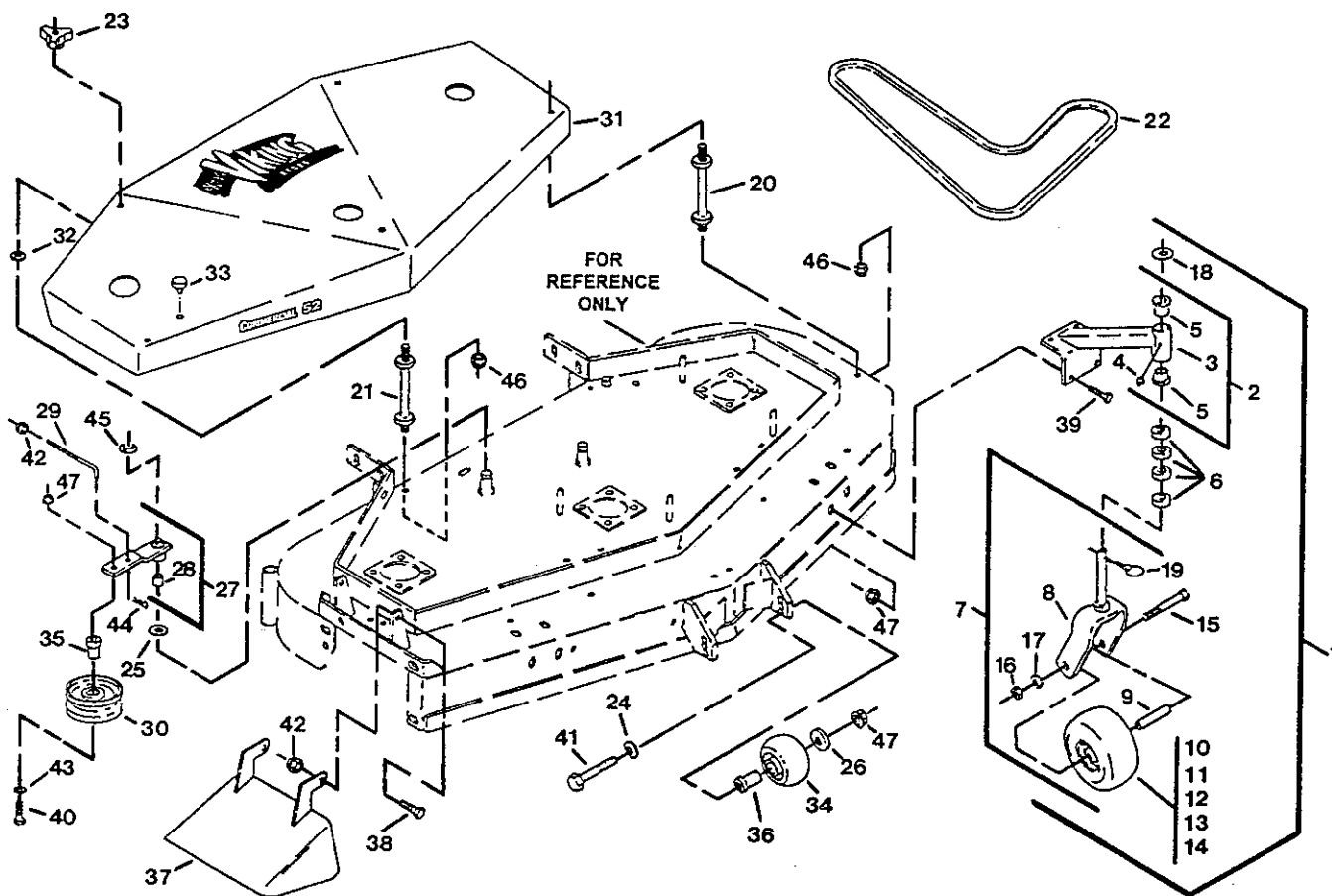
NOTE: The pulley on the **right hand** side (from operators position) cutter housing is turned upside down with the long side of the hub facing up.

48" MOWER DECK (con't.)



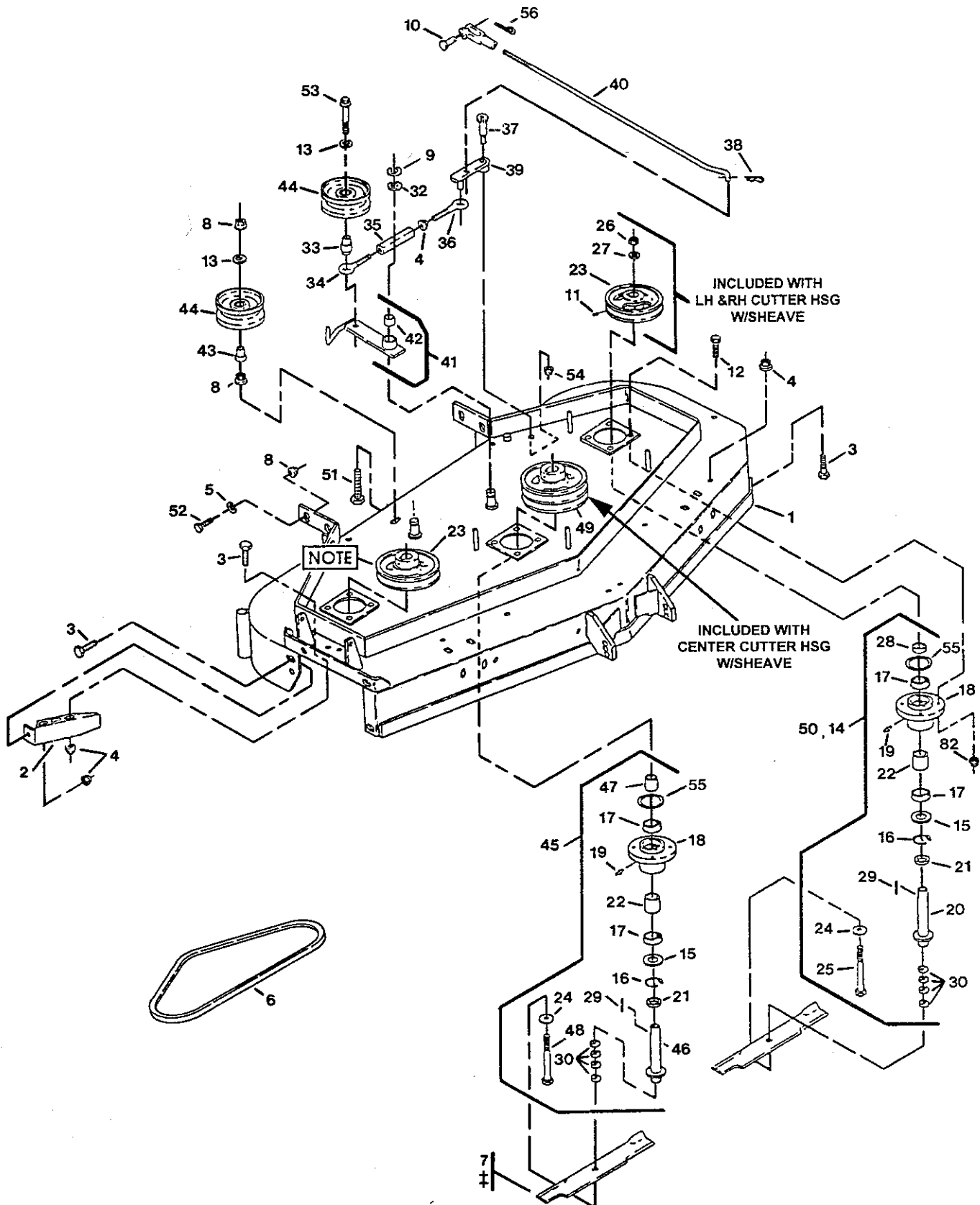
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	322153	Caster mount complete.....	2	14	513810	Bushing.....	2
2	302203	Support, caster wheel (w/bearings).....	1	15	800334	Screw, 1/2-13 x 6	1
3	302194	Support, caster wheel wldmnt.	1	16	804509	Nut, 1/2-13.....	1
4	811001	Zerk, 1/8 N.P.T.	1	17	805008	Lockwasher, 1/2	1
5*	303514	Flange, thrust bearing.....	2	18	513338	Washer.....	1
6	303314	Spacer, 10" caster	4	19	809020	Quick pin, 10" caster	1
7	322154	Wheel assembly (caster).....	1	20	303537	Stud, belt shield (short)	2
8	322145	Fork wldmnt, caster	1	21	303536	Stud, belt shield (long).....	2
9	513547	Spacer, front caster	1	22	323385	Knob, belt cover	4
10	513648	Wheel & tire, complete.....	2	23	402072	Shield, 48" Viking Hydro.....	1
11	513807	Wheel & hub	1	24	323417	Washer, belt cover mount	4
12	513808	Tire, 9 x 3.50-4 4-ply.....	1	25	809001	Nut, whizlock 5/16-18	4
13	513809	Roller bearing	1	26	809007	Nut, whizlock 3/8-16	8
				27	800290	Screw, 3/8-16 x 3/4	8

52" MOWER DECK



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	322153	Caster mount, complete.....	2	24	303327	Washer, 3/8 disc.....	2
2	302203	Support, caster wheel (w/bearings).....	1	25	303352	Washer, spindle.....	1
3	302194	Support, caster wheel wldmnt.	1	26	373034	Washer, pivot.....	2
4	811001	Zerk, 1/8 N.P.T.	1	27	402053	Idler arm, complete (right)	1
5*	303514	Flange, thrust bearing.....	2	28	303144	Bushing.....	1
6	303314	Spacer, 10" caster	4	29	403107	Rod, belt tension.....	1
7	322154	Wheel assembly (caster)	1	30	403119	Pulley, idler "V".....	1
8	322145	Fork wldmnt, caster	1	31	404163	Shield, 52" Viking Hydro.....	1
9	513547	Spacer, front caster	1	32	323417	Washer, belt cover mount	4
10	513648	Wheel & tire, complete.....	2	33	513291	Bumper, rubber	1
11	513807	Wheel & hub	1	34	603299	Roller, anti-scalp.....	2
12	513808	Tire, 9 x 3.50-4 4-ply.....	1	35	603496	Bushing, idler bearing.....	1
13	513809	Roller bearing	1	36	603602	Bushing, roller.....	2
14	513810	Bushing.....	2	37	602571	Chute.....	1
15	800334	Screw, 1/2-13 x 6.....	1	38	800273	Screw, 5/16-18 x 1	2
16	804509	Nut, 1/2-13.....	1	39	800290	Screw, 3/8-16 x 3/4	8
17	805008	Lockwasher, 1/2.....	1	40	800295	Screw, 3/8-16 x 1 3/4	1
18	513338	Washer	1	41	800807	Screw, 3/8-16 x 4	2
19	809020	Quick pin, 10" caster.....	1	42	804256	Nut, nylock 5/16-18	3
20	303537	Stud, belt shield (short).....	2	43	805259	Washer, 3/8	1
21	303536	Stud, belt shield (long).....	2	44	806003	Hairpin	1
22	323301	Belt, drive.....	1	45	808505	E-Ring for .875 rd.	1
23	323385	Knob, belt cover.....	5	46	809001	Nut, whizlock 5/16-18	4
				47	809007	Nut, whizlock 3/8-16	11

52" MOWER DECK (con't.)



52" MOWER DECK (con't.)

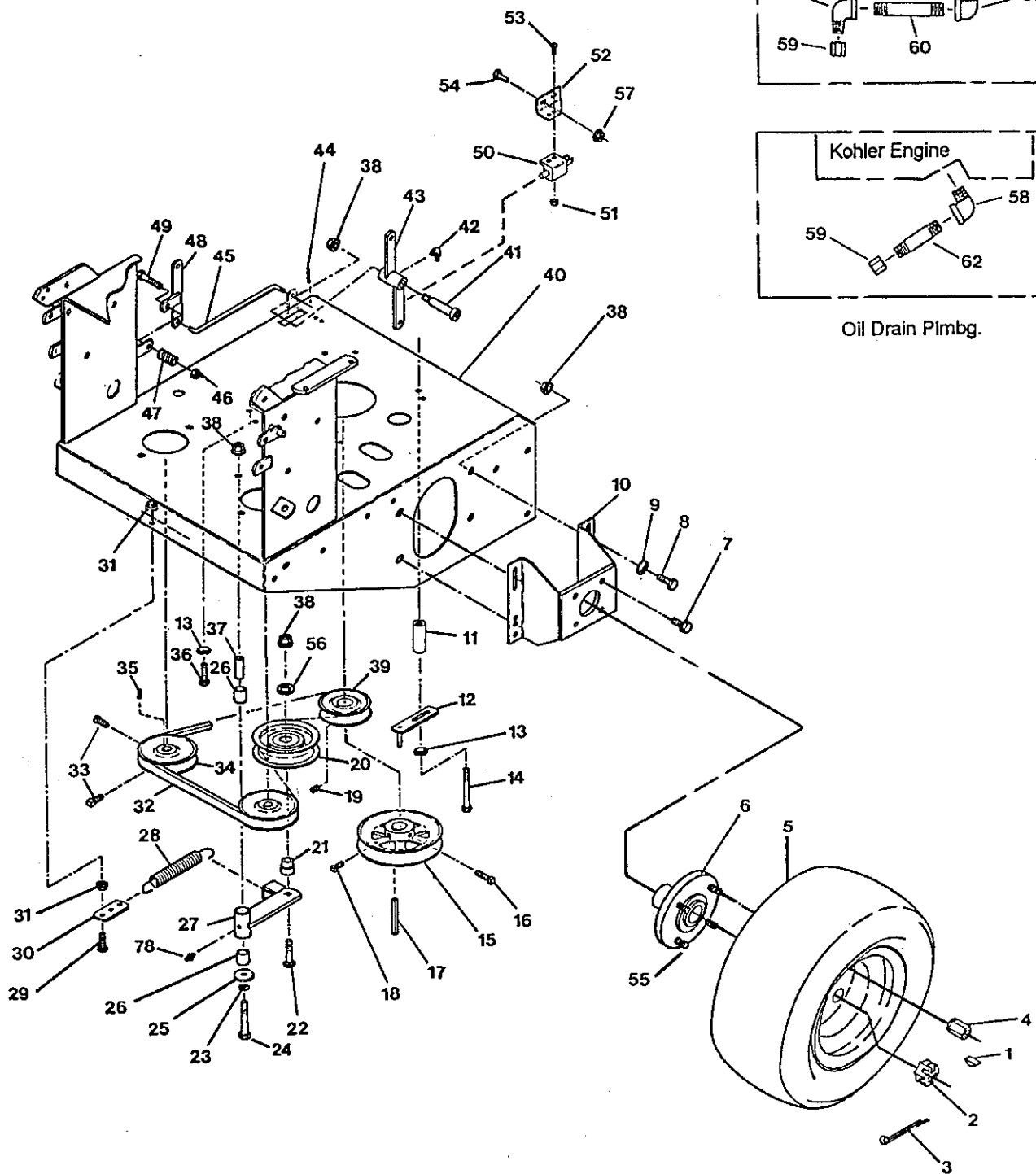
Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	402079	Front Deck (52")	1	27	323339	Washer, retainer (sheave).....	3
2	402057	Baffle, discharge.....	1	28	323402	Spacer, bearing.....	2
3	800270	Screw, 5/16-18 x 5/8.....	12	29	807267	Key, 1/4 x 3/16 x 1 1/4.....	3
4	809001	Nut, whizlock 5/16-18	11	30	303164	Spacer, blade drive	12
5*	303327	Washer, 3/8 disc spring	6	31	303105	Yoke	1
6	403105	Belt, "V" (front deck).....	1	32	303352	Washer, spindle.....	1
7	303527	Blade, high lift 18".....	3	33	303434	Bushing, engagement.....	1
	303439	Blade, low lift.....	3	34	303348	Eye bolt (left hand thread)	1
‡	303495	Blade, mulching	3	35	303236	Turnbuckle body	1
	303283	Blade, 1/4 x 18" high lift	3	36	303238	Eye bolt (right hand thread)....	1
8	809007	Nut, whizlock 3/8-16	8	37	809011	Bolt, 3/8 x 3/4 (shoulder)	1
9	808505	E-Ring for .875 rd.	1	38	806003	Hairpin	1
10	808280	Pin, clevis 5/16 x 1.....	1	39	302198	Arm, assist.....	1
11	803310	Setscrew, 5/16-18 x 3/8.....	6	40	323305	Linkage, assist arm	1
f	840022	Prolock (Nut type) .5 ml tube ..	1	41	302129	Arm, engagement (w/bshng) ..	1
12	800273	Screw, 5/16-18 x 1.....	12	42	303144	Bushing, powdered metal	1
13	805259	Washer, 3/8	3	43	543879	Bushing, idler.....	1
14	322166	Housing, cutter (w/shv) (LH)...	1	44	603843	Pulley, idler (heavy duty)	2
15	323408	Shield, dust.....	3	45	402077	Housing, cutter (w/shv) (cntr) .	1
16	808506	Ring, retaining.....	3	46	402075	Cutter spindle wldmnt (long) ..	1
17	303057	Bearing, cutter housing.....	6	47	323404	Spacer, bearing (center shv) ..	1
18	323315	Housing, cutter.....	2	48	800862	Screw, 5/8-18 x 8 1/2	1
19	811001	Zerk, 1/8 N.P.T. (straight)	3	49	403133	Sheave (double groove)	1
20	322164	Spindle, wldmnt (cutter)	2	50	322167	Cutter housing w/sheave (RH) ..	1
21	323399	Spacer (short).....	3	51	800029	Bolt, tap 3/8-16 x 2 1/4	1
22	323400	Spacer (long)	3	52	800293	Screw, 3/8-16 x 1 1/4	6
23	303535	Sheave (single groove).....	2	53	803003	Screw, whzck 3/8-16 x 1 3/4..	1
24	513208	Washer, 5/8 disc spring	3	54	804256	Nut, nylock 5/16-18	13
25	800861	Screw, 5/8-18 x 8.....	2	55	303542	O-Ring	1
26	804510	Nut, 5/8-18 UNF.....	3	56	806753	Pin, cotter	1

‡ Requires installation of Mulching Kit Part No. MK52-2.

f Not Illustrated. Use Pro-Lock, (nut type) on setscrew threads.

NOTE: The pulley on the **right hand** side cutter housing is turned upside down with the long side of the hub facing up.

ENGINE DECK GROUP



ENGINE DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	807019	Key, woodruff 1 x 1/4	2	30	603801	Anchor, spring	1
2	809068	Nut, slotted 3/4-16	2	31	809001	Nut, whizlock 5/16-18	2
3	806800	Pin, cotter 9/64 X 1-1/2	2	32	323225	Belt, pump drive	1
4	513011	Nut, wheel	8	33▽	803050	Setscrew, 5/16-18 x 3/4	4
5	603714	Tire & Wheel Assembly	2	34	603778	Sheave - Pump	2
	603427	Tire	1	35	807272	Key, 5 mm Sq. x 25 mm	2
	603715	Wheel	1	36	809072	Screw, 1.25 x 25 mm (48" & 52" Kaw & Kohler)	1
6*	602997	Hub, tapered (4 bolt)	2		809018	Screw, 1.25 x 25 mm (36" Kaw & Kohler)	2
7	803045	Screw, whizlock 3/8-16 x 3/4	8		800275	Screw, 5/16-18 x 1 1/2 (B & S)	1
8	800292	Screw, 3/8-16 x 1	8	37	603044	Bushing - Idler Pivot	1
9	303327	Washer, 3/8 spring disc	8	38	809007	3/8-16 Whizlock Nut	10
10	322162	Mount, motor (36")	2	39	323223	Sheave, pump drive	1
	402062	Mount, motor (48" & 52")	2	f	840023	Pro-Lock, retaining (.5cc tube)	1
11	323228	Spacer, belt guide	3	40	322160	Deck, engine	1
12	322110	Belt guide	3	41	809062	Bolt, .500 x 1.75 (shoulder)	1
13	303334	Washer, 5/16 spring disc	4	42	811008	Zerk	1
14	809065	Screw, 1.25 x 75mm (36" Kaw & Kohler)	2	43	322108	Bellcrank assy. w/zerk	1
	809065	Screw, 1.25 x 75mm (48" & 52" Kaw & Kohler)	3	44	806003	Hairpin	1
	800283	Screw, 5/16-18 x 3-1/2 (B & S)	3	45	323172	Linkage, blade engagement ...	1
15*	403087	Sheave, blade drive (48")	1	46	804256	Nut, nylock 5/16-18	1
	303498	Sheave, blade drive (36")	1	47	323245	Spring, compression	1
16▽	803046	Setscrew, 5/16-18 x 1	1	48	322090	Bellcrank	1
17	807264	Key, 1/4 sq. x 2-5/8	1	49	800277	Screw, 5/16-18 x 2	1
18▽	803022	Setscrew, 5/16-18 x 5/8	1	50	513051	Switch, blade engagement	1
19▽	803310	Setscrew, 5/16-18 x 3/8	2	51	804252	Nut, nylock 10-24	2
20	603843	Idler, pulley	1	52	323213	Bracket, switch	1
21	603496	Bushing, idler	1	53	801039	Screw, 10-24 x 5/8	2
22	807517	Setscrew, 3/8-16 x 1-3/4	1	54	800251	Screw, 1/4-20 x 5/8	2
23	805006	Lockwasher, 3/8	1	55	543807	Stud, hub	8
24	800298	Screw, 3/8-16 x 2-1/2	1	56	805258	Washer, 5/16	1
25	373034	Washer, swivel	1	57	809012	Nut, whizlock 1/4-20	2
26	513034	Bearing, pivot	2	58♦	303431	Elbow, St. 3/8 NPT (brass)	1
27	602521	Arm, assy idler (w/bearings) ...	1	59♦	543233	Cap, 3/8 NPT	1
	602458	Arm, assy idler (w/o bearings) ..	1	60♦	543232	Nipple, 4 x 3/8 NPT	1
28	603402	Spring, extension	1	61♦	403124	Elbow, St. 3/8 NPT (galv)	1
29	800273	Screw, 5/16-18 x 1	1	62♦	323326	Nipple, 3 x 3/8 NPT (Kohler) ..	1

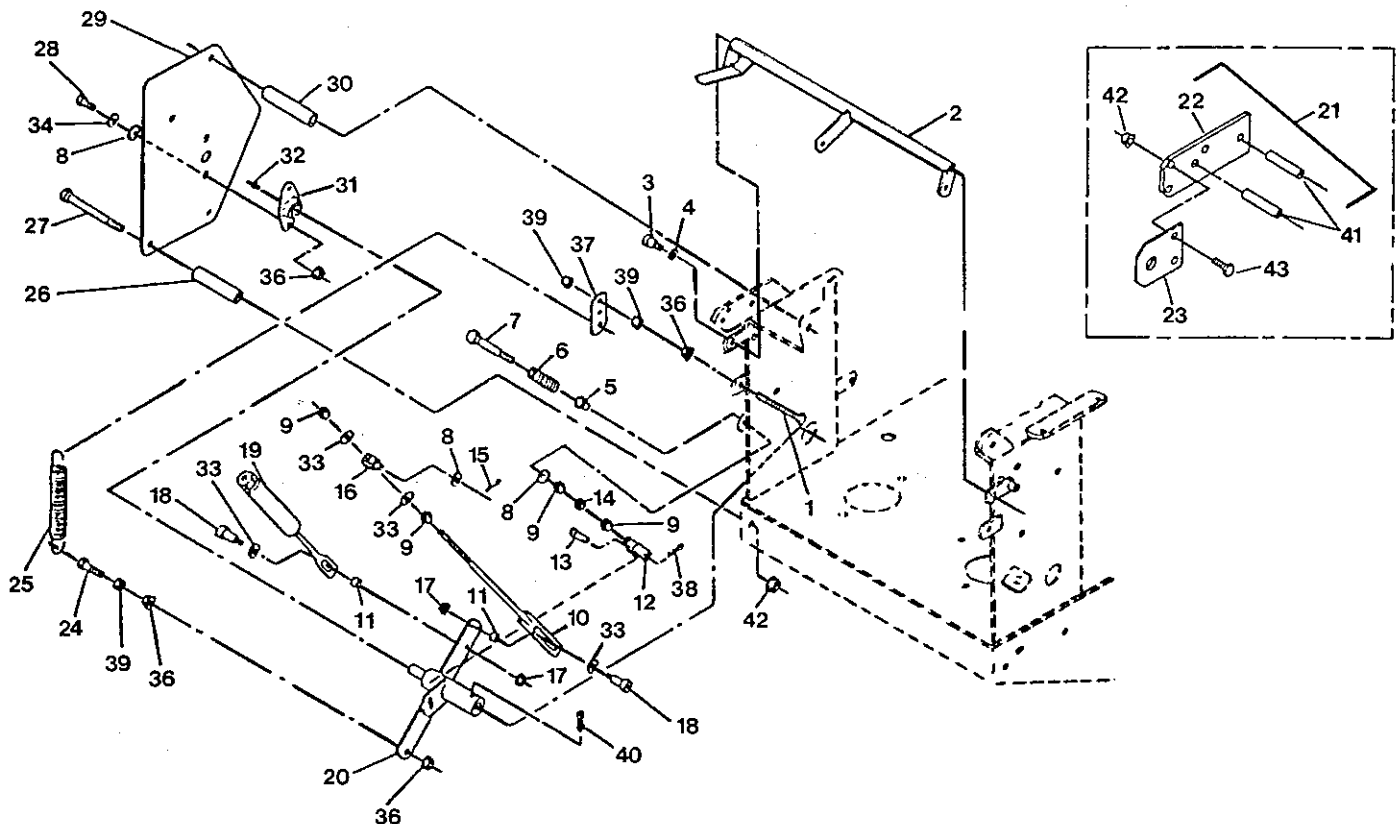
* Use anti-seize compound on pulley bore and on tapered bore of hub.

f Not Illustrated. Use Pro-lock (retaining type) on pulley bore.

▽ Use Pro-Lock nut type, Part No. 840022 (.5 ml tube) on setscrew threads.

♦ Use a Teflon pipe sealant or equivalent on threads.

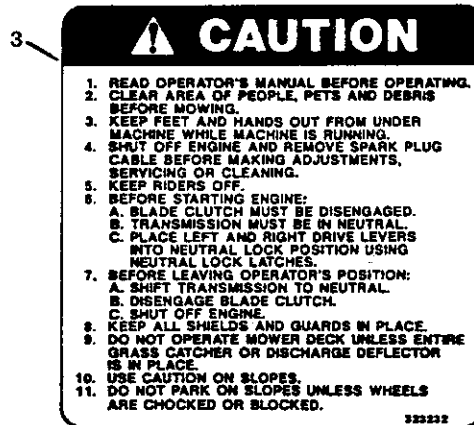
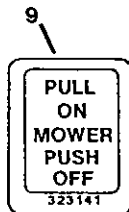
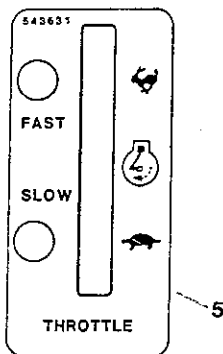
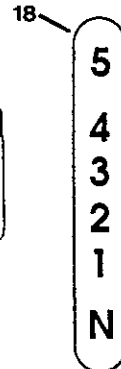
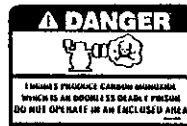
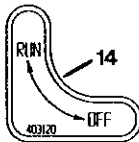
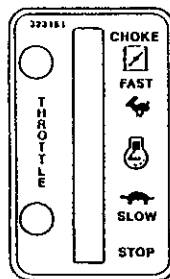
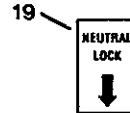
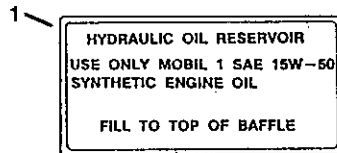
ENGINE DECK GROUP (con't.)



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	800021	Bolt, tap 5/16-18 x 3.....	2	22	373036	Mount, hitch.....	2
2	322096	Crank.....	1	23	323238	Bracket, hitch adapter.....	2
3	809056	Bolt, .375 x .375 (shoulder).....	2	24	800274	Screw, 5/16-18 x 1-1/4.....	2
4	805259	Washer, 3/8.....	2	25	603693	Spring, extension.....	2
5	603735	Bushing, nylon flanged.....	2	26	323197	Spacer, short.....	4
6	603807	Spring, neutral return.....	2	27	800302	Screw, 3/8-16 x 4.....	8
7	603737	Bolt, neutral return.....	2	28	800271	5/16-18 x 3/4.....	4
8	805256	Washer, 1/4.....	8	29	323179	Shield, hydro control.....	2
9	804521	Nut, 5/16-24.....	8	30	323195	Spacer, long.....	4
10	602742	Rod, control arm.....	2	31	543514	Bearing, flange.....	2
11	603903	Spacer.....	4	32	811006	Zerk, 1/4-28.....	3
12	303105	Yoke, adjustable.....	2	33	805257	Washer, 5/16 (SAE).....	8
13	808280	Pin, clevis 5/16-1.....	2	34	805005	Washer, 5/16 (heavy).....	4
14	804758	Nut, jam 5/16-24.....	2	35	805258	Washer, 5/16.....	1
15	806753	Pin, cotter 3/32 x 1/2.....	2	36	809001	Nut, whizlock 5/16.....	10
16	603676	Swivel.....	2	37	603801	Anchor, spring.....	2
17	809012	Nut, 1/4-20.....	6	38	806003	Hairpin.....	2
18*	809057	Bolt, .312 x .750 (shoulder).....	4	39	804256	Nut, nylock 5/16-18.....	6
19	612060	Housing.....	2	40	803022	Setscrew, 5/16-18 x 5/8.....	2
20	322092	Arm, left hand.....	1	41	323240	Spacer, shield.....	4
	322094	Arm, right hand.....	1	42	809007	Nut, whizlock 3/8-16.....	12
21	301022	Sulky hitch kit, (Vik Hydro).....	1	43	800292	Screw, 3/8-16 x 1.....	4

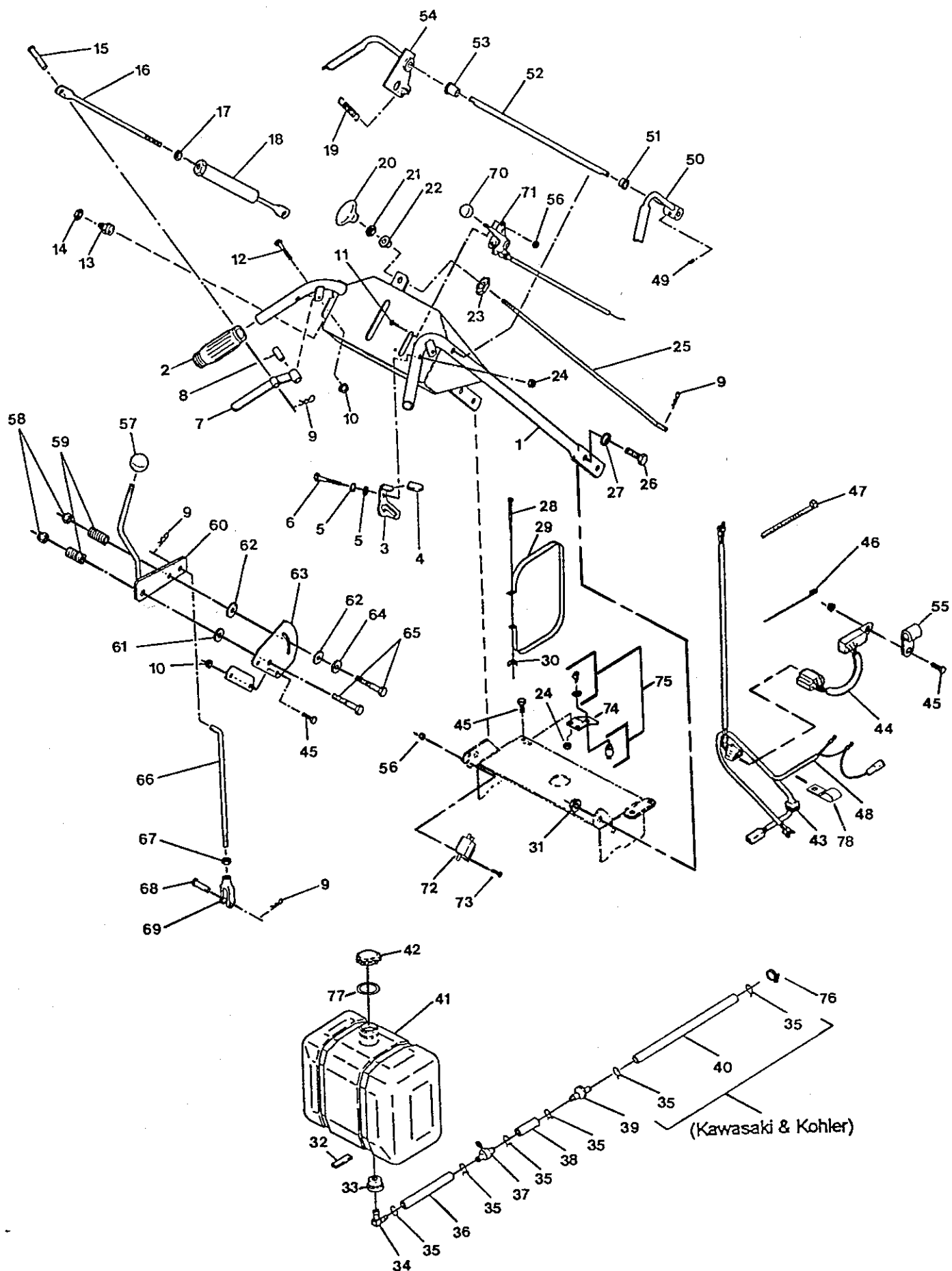
* Use Pro-Lock nut type, Part No. 840022 (.5 ml tube) on bolt threads.

DECALS



Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	513890	Decal, Hydraulic Tank.....	1	12	303293	Decal, Caution.....	1
2	323319	Decal, Large Viking.....	1	13	403005	Decal, Danger	1
3	323232	Decal, Instructional	1	14	403120	Decal, Off/Run	1
4	323151	Decal, Throttle/Choke (Kawasaki & Kohler)	1	15	543774	Decal, Danger	1
5	543631	Decal, Throttle (B&S).....	1	16	303481	Decal, Carbon Monoxide.....	1
6	303517	Decal, Belt Drive	1	17	603845	Decal, Drive Wheel Release ..	1
7	303508	Decal, Discharge Warning	1	18	603804	Decal, Shifter	1
8	303520	Decal, TriVantage	1	19	303102	Decal, Neutral Lock Label	2
9	323141	Decal, Mower Engagement	1	20	403132	Decal, Commercial "52".....	1
10	323321	Decal, Small Viking	1	21	323411	Decal, Commercial "36".....	1
11	513746	Decal, Muffler.....	1	22	403131	Decal, Commercial "48".....	1

UPPER HANDLES and CONTROLS



UPPER HANDLES and CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.	Ref. No.	Part No.	Description	Qty. Req'd.
1	322098	Handle weldment	1	41	543364	Tank, gas	1
2	303097	Grip, handle	2	42	513508	Cap, gas	1
3	602772	Latch, drive lever w/grip (RH) ..	1	43	543296	Grommet	1
f	602771	Latch, drive lever w/grip (LH) ..	1	44	323145	Module, Interlock (Kaw and B&S)	1
4	303019	Grip, latch	2		323146	Module, Interlock (Kohler)	1
5	303435	Washer, 1/4 spring disc	4	45	800251	Screw, 1/4-20 x 5/8 (Kaw & Kohler)	3
6	800257	Screw, 1/4-20 x 1-3/4	2		800251	Screw, 1/4-20 x 5/8 (B&S)	5
7	602837	Lever, drive (LH)	1	46	303287	Tie, plastic 5 1/2" (Kaw)	5
	602839	Lever, drive (RH)	1	47	303335	Tie, plastic 7 5/16"	2
8	603749	Bushing, drive lever	2	48	323422	Harness wiring (Kawasaki)	1
9	806003	Hairpin	5		323230	Harness wiring (Kohler)	1
10	809012	Nut, whizlock 1/4-20	4		403112	Harness wiring (B&S)	1
11	807513	Screw, #10-24 x 1/2	2	49	803322	Setscrew, 5/16-24 x 5/16	2
12	800256	Screw, 1/4-20 x 1-1/2	2	♦	840022	Pro-Lock, nut type (.5 cc tube)	1
13	303372	Operator Control Switch	1	50	302138	Lever, OPC (RH)	1
14	803034	Pal nut, 9/16	1	∇	840023	Pro-Lock retaining (.5 ml tube)	1
15	613055	Pin, clevis	2	51	303365	Bushing, nylon	1
16*	323416	Rod, drive lever linkage	2	52	303364	Rod, connecting	1
17	804507	Nut, 3/8-16	2	53	303369	Bushing, flanged	1
18	602692	Housing	2	54	602507	Lever, OPC (LH)	1
19	303363	Spring, actuator	1	∇	840023	Pro-Lock retaining (.5 ml tube)	1
20	323134	Knob, (push/pull)	1	55	603727	Clip, .56 Loom	1
21	804751	Nut, jam 5/16-18	1	56	804252	Nut, nylock #10-24	2
22	323143	Bushing, nylon .38 I.D.	1	57	603175	Knob, 1-3/8	1
23	323142	Push Nut (.50 shaft)	1	58	804256	Nut, nylock 5/16-18	2
24	804255	Nut, nylock 1/4-20 (Kaw & Koh)	3	59	323245	Spring, compression	2
	804255	Nut, nylock 1/4-20 (B&S)	5	60	602733	Lever, shift	1
25	323181	Linkage, blade push/pull	1	61	805257	Washer, 5/16	1
26	800292	Screw, 3/8-16 x 1	4	62	323244	Washer, friction	2
27	303327	Washer, 3/8 spring disc	4	63	603730	Plate, shift lever	1
28	801062	Screw, 1/4-20 x 3	2	64	603716	Washer, friction	1
29	303465	Strap, 5 gal. fuel tank	2	65	800277	Screw, 5/16-18 x 2	2
30	543792	Wingnut, nylock 1/4-20	2	66	324127	Rod, speed control	1
31	809007	Nut, whizlock 3/8-16	4	67	804758	Nut, jam 5/16-24	1
32	303315	Pad, gas tank	2	68	808280	Pin, clevis	1
33	513645	Bushing, fuel valve	1	69	303105	Yoke, adjustable	1
34	543277	Elbow, fuel tank	1	70	513592	Knob, red ball	1
35	303077	Clamp, gas line (Kohler)	6	71	323129	Cable, throttle (Kaw & Kohler)	1
	303077	Clamp, gas line (B&S)	4		543697	Cable, throttle (B&S)	1
	303077	Clamp, gas line (Kawasaki)	5	72	513051	Switch, neutral lockout	1
36	603955	Fuel line, 6" (Kaw & Kohler)	1	73	801040	Screw, #10-24 x .75	2
	543649	Fuel line, 7" (B&S)	1	74	403118	Bracket, key switch (B&S)	1
37	603770	Valve, gas	1	75	403121	Switch, ON-Off key (B&S)	1
38	603776	Fuel line, 2.5" (Kaw & Kohler) ..	1		603511	Keys, ignition	1
	303471	Fuel line, 12" (B&S)	1	76	303308	Clamp, gas line (Kawasaki)	1
39	303197	Filter, gas	1	77	303321	Gasket, gas cap	1
40	603954	Gas line, 13.75" (Kohler)	1	78	323423	Clip, loom 1/4" (Kaw)	1
	303471	Gas line, 12.0" (Kawasaki)	1				

f Not Illustrated.

* Use anti-seize compound on threads.

♦ Use Pro-Lock (nut type) on setscrew threads.

∇ Use on inside bore of OPC hub (See Owner's Manual).

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