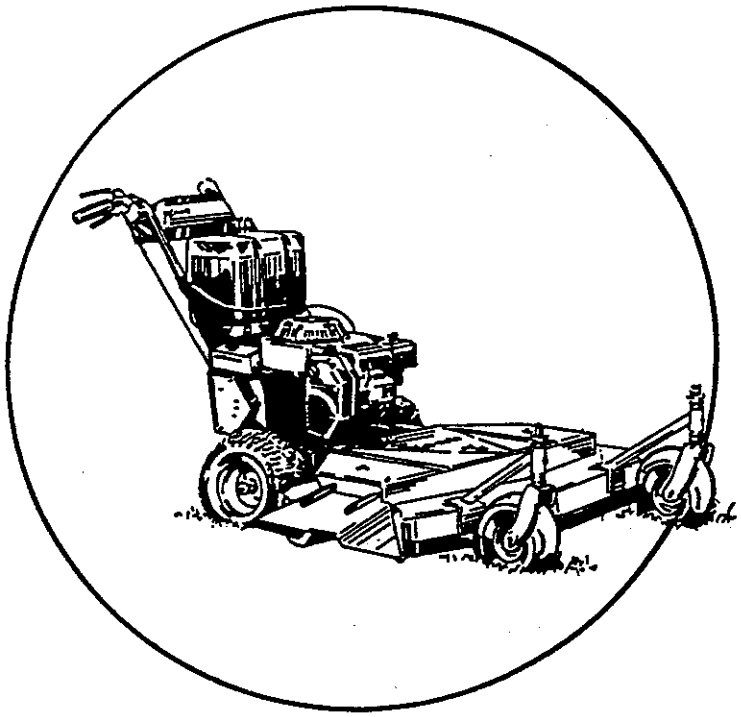
eXmark® MFG. CO. INC.

For Serial Nos. 102,000 and Higher

METRO



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 number plate is located on the top front, right hand side of the engine frame. 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. 850321

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SAFETY RECOMMENDATIONS FOR ALL EXMARK MOWER USERS

IMPORTANT!

THIS MANUAL WILL AID YOU IN THE SAFE OPERATION OF YOUR EXMARK MOWER. PLEASE READ "ALL MANUALS" (INCLUDING OPERATORS MANUAL) THOROUGHLY AND IN THEIR ENTIRETY BEFORE OPERATION.

This Hazard symbol ⚠ appears above information which alerts you of unsafe actions or situations and will be followed by the word DANGER, WARNING, or CAUTION. When the symbol is used with the word DANGER, it denotes that an extreme hazard exists which would result in high probability of death or irreparable injury if proper precautions are not taken. WARNING denotes that a hazard exists which can result in injury or death and/or major equipment or property damage if proper precautions are not taken. CAUTION denotes a reminder of safety practices or directs attention to unsafe practices which could result in personal injury and/or minor equipment or property damage.

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.

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.

⚠ DANGER

- ***Do Not* operate the engine in a confined area where dangerous carbon monoxide fumes can collect.**

3. Mow only in daylight or good artificial light.
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 and disconnect the spark plug wire(s)
    - Before checking, adjusting, servicing or clearing blockages.
    - After striking a foreign object to inspect mower for damage. Make any necessary repairs before restarting and operating the mower.

⚠ WARNING

- **If it is necessary to raise the deck or mower for service or repairs, *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. Stop the engine:
    - Before refueling.
    - Whenever you leave the mower.
    - Before making height adjustments.
    - Before removing grasscatcher.
    - Before cleaning blockages.
17. 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, maintenance, and storage of the equipment.**
- **It is essential that all operator safety 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. This equipment should not be modified or added to without the manufacturer's authorization. Altering this equipment in any manner can adversely affect the operation, safety or performance of the unit.
9. All replacement parts must be equivalent or the same as the parts supplied as original equipment.
10. Store fuel in a cool dry place. Keep fuel and mower in locked storage to prevent children from playing or tampering with them.

⚠ DANGER

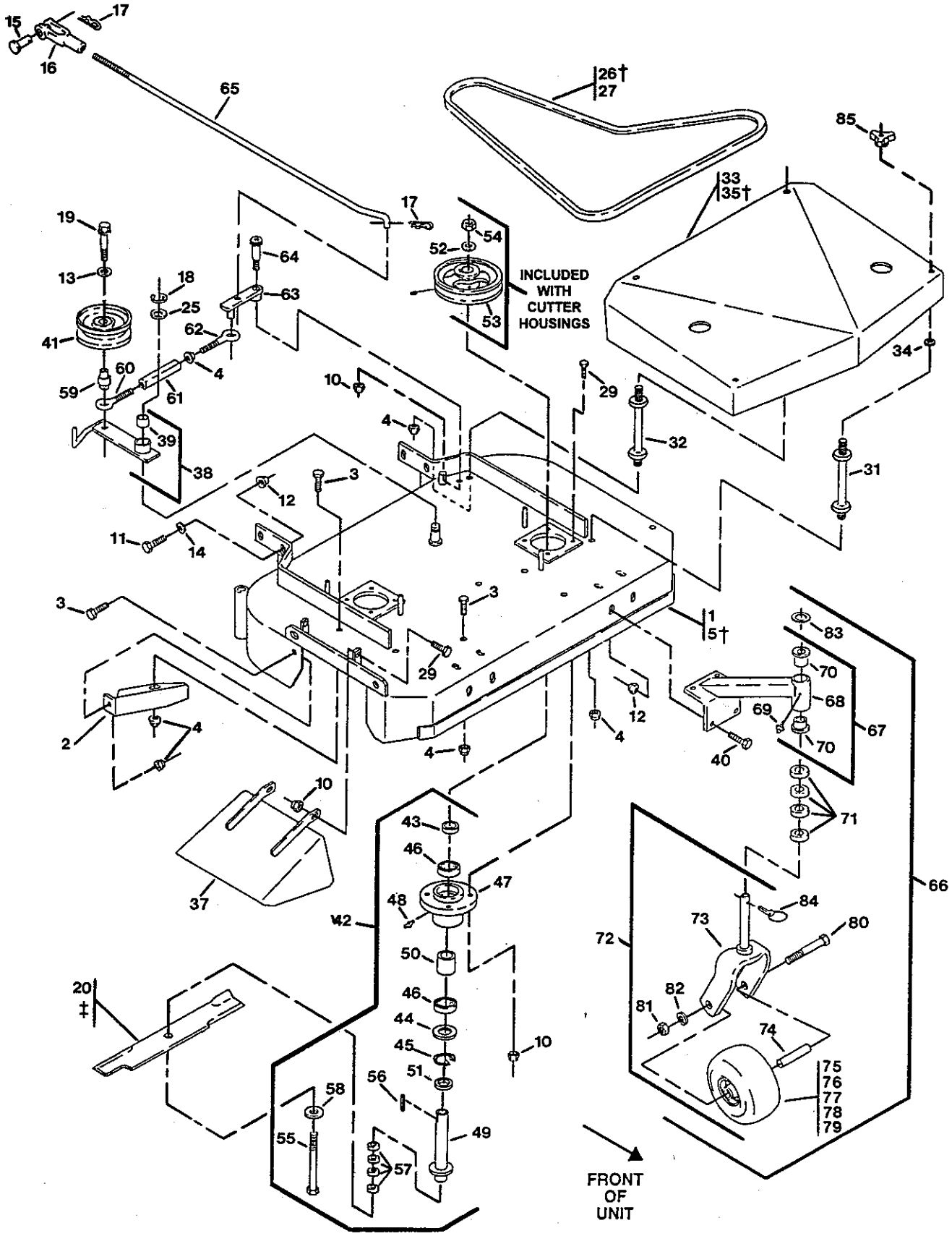
- **Fuel is *highly flammable. Do Not* store fuel in an enclosed area where heating appliance or open flame is present. Store fuel in a container designed specifically for that purpose.**

11. Refer to the Operators Manual (Part No. 850320) for specifications and instructions on the maintenance, assembly, and operation of your Exmark mower.

SAFETY SIGNS

1. Familiarize yourself with the instruction and safety labels. They are critical to the safe operation of your Exmark commercial mower.
2. Remove all grease, dirt and debris from safety signs. Safety signs must be replaced if they are missing or illegible. 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.

32" and 36" MOWER DECK



32" and 36" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.
1	302217	Front Deck w/baffles (36")	1
2	•302189	Baffle wldmnt, dogleg	2
3	•800270	5/16-18 x 5/8 HHCS	8
4	•809001	5/16-18 Whizlock nut	8
5†	302211	Front Deck w/baffles (32")	1
(2)	•302189	Baffle wldmnt, dogleg	1
(3)	•800270	5/16-18 x 5/8 HHCS	7
(4)	•809001	5/16-18 Whizlock nut	7
10	804256	5/16-18 Nylock hex nut	11
11	800293	3/8-16 x 1 1/4 HH capscrew	6
12	809007	3/8-16 whizlock nut	14
13	805259	3/8 Flatwasher	2
14	303327	3/8 Disc spring washer	6
15	808280	5/16 x 1 Clevis pin	1
16	303105	Yoke	1
17	806003	Cotter hairpin	2
18	808505	E-Ring for .875 rd.	1
19	803003	3/8-16 x 1 3/4 Whizlock bolt	1
20	303146	Blade, 18" High Lift (36")	2
‡	303495	Blade, Mulching (36")	2
	303439	Blade, Low Lift (36") optional	2
	303283	Blade, High Lift 1/4 x 18 (36") optional	2
†	403026	Blade, 16 1/4" High Lift (32")	2
‡	403086	Blade, Mulching (32")	2
†	403059	Blade, 1/4 x 16 High Lift (32") optional	2
†	403075	Blade, Low Lift (32") optional	2
25	303352	Washer, spindle	1
26†	323345	Drive belt, (to blades) 32" Model	1
27	323299	Drive belt (to blades) 36" Model	1
28	803310	Setscrew, 5/16-18 x 3/8	4
f	840022	Prolock (Nut type) .5 ml tube	1
29	800273	5/16-18 x 1 HH capscrew	10
(4)	809001	5/16-18 Whizlock nut	5
31	303537	Stud, belt shield (short)	2
32	303536	Stud, belt shield (long)	2
33	324208	Shield wldmnt, 36" Metro	1
34	323417	Washer, belt cover mount	4
35	324194	Shield wldmnt, 32" Model	1
(34)	323417	Washer, belt cover mount	4
37	302054	Chute	1
38	302129	Engagement arm w/bushing	1
39	•303144	Powder metal bearing	1
40	800290	3/8-16 x 3/4 HH capscrew	8
41	603843	Idler pulley (heavy duty)	1
42	322166	Cutter housing w/sheave (LH)	2
43	•323402	Spacer, bearing sheave	1
44	•323408	Dust shield	1
45	•808506	Retaining ring	1
46	•303057	Cutter housing bearing	2
47	•323315	Cutter housing	1
48	•811001	1/8 N.P.T. Straight zerk	1
49	•322164	Cutter spindle wldmnt	1
50	•323400	Spacer (long)	1
51	•323399	Spacer (short)	1
52	•323339	Retaining washer, sheave	1
53	•303535	Pulley, cast iron	1
54	•804510	5/8-18 UNF hex nut	1
55	•800861	5/8-18 x 8 HH Capscrw (Gr 5)	1
56	•807267	Key, 1/4 x 3/16 x 1 1/4	1
57	•303164	Spacer, blade drive	4
58	•513208	5/8 Spring disc washer	1
59	303434	Engagement bushing	1
60	303348	Eye bolt (left hand thread)	1
61	303236	Turnbuckle body	1
62	303238	Eye bolt (right hand thread)	1
63	302198	Assist arm..	1
64	809011	3/8 x 3/4 Shoulder bolt	1
65	323303	Assist arm linkage	1
66	322153	Caster/mount, complete	2
67	•302203	Caster wheel support w/bearings	1
68	••302194	Caster wheel support wldmnt	1
69	•••811001	Grease zerk, 1/8 N.P.T.	1
70	••303514	Flange, thrust bearing	2
71	•303314	Spacer, 10" caster	4
72	•322154	Caster wheel assembly	1
73	••322145	Fork wldmnt, caster	1
74	••513547	Spacer, front caster	1
75	••513648	Wheel & tire, complete	2
76	•••513807	Wheel & hub	1
77	•••513808	Tire, 9 x 3.50-4 4-ply	1
78	•••513809	Roller bearing	1
79	•••513810	Bushing	2
80	••800334	1/2-13 x 6 HH capscrew	1
81	••804509	1/2-13 Hex nut	1
82	••805008	1/2 spring lockwasher	1
83	•513338	Washer, special	1
84	•809020	Quick pin, 10" caster	1
85	323385	Knob, belt cover	4

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

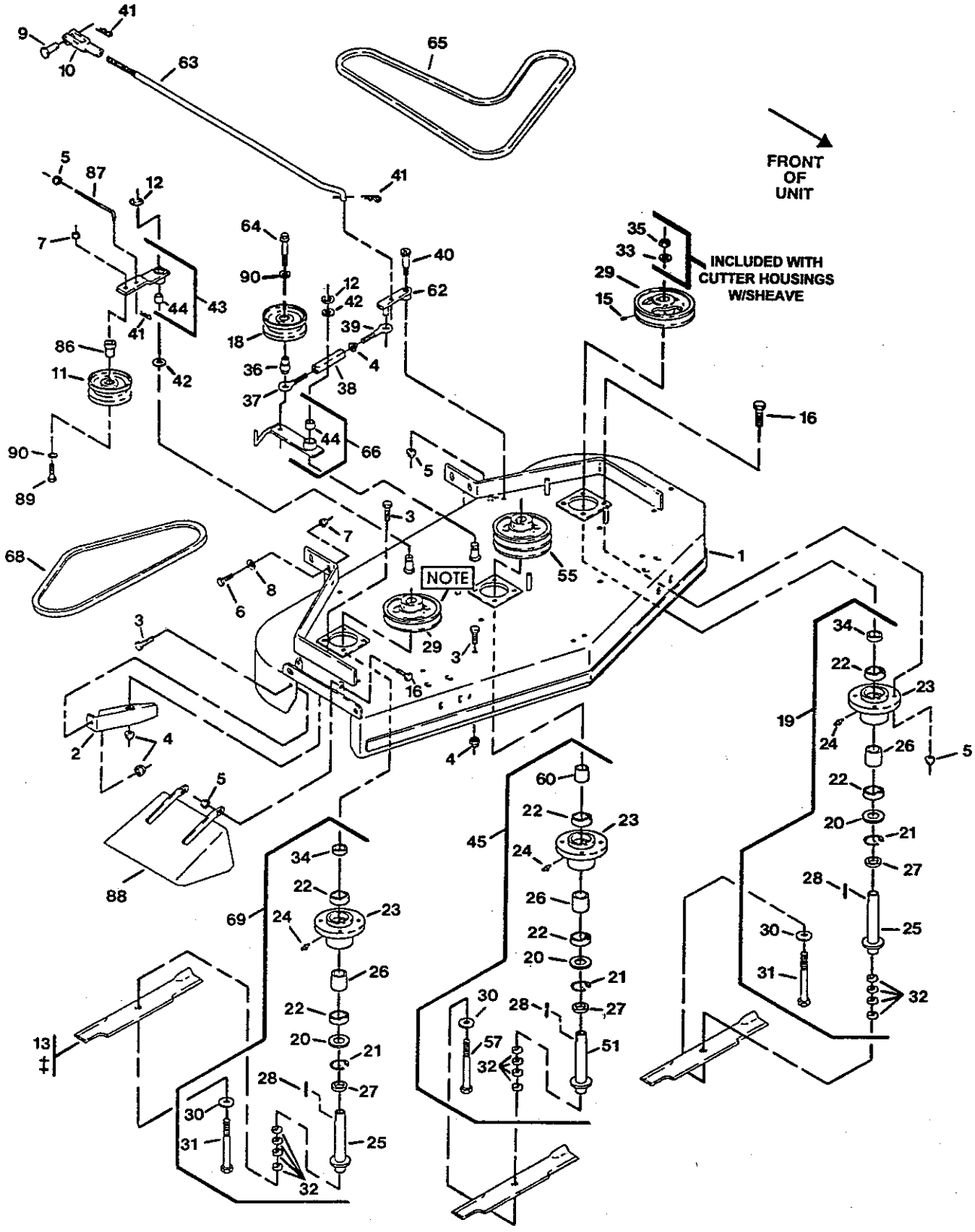
f Not illustrated. [Reference to item 28, use Pro-lock (Nut type) on setscrew threads (Setscrew Part No. 803310)]

† Refers to 32" Model only.

‡ Requires installation of Mulching Kit (Part No. MK36 or Part No. MK32).

Reference numbers in parenthesis indicate these parts are also used in other locations.

48" MOWER DECK



48" MOWER DECK

Ref. No.	Part No.	Description	Qty. Req'd.
1	402073	Front Deck w/baffles (48")	1
2	•302189	Baffle, dogleg	3
3	•800270	5/16-18 x 5/8 HH capscrew	14
4	•809001	5/16-18 Whizlock nut	14
5	804256	5/16-18 Nylock hex nut	16
6	800293	3/8-16 x 1 1/4 HH capscrew	6
7	809007	3/8-16 whizlock nut	7
8	303327	3/8 disc spring washer	6
9	808280	5/16 x 1 Clevis pin	1
10	303105	Yoke	1
11	403119	Idler pulley "V"	1
12	808505	E-Ring for .875 rd.	2
13	403026	Blade, Ultra High Lift 16" (48")	3
	403059	Blade, 1/4 x 16 High Lift (48") optional	3
‡	403086	Blade, mulching (48")	3
	403075	Blade, Low Lift (48") optional	3
15	803310	Setscrew, 5/16-18 x 3/8	6
f	840022	Prolock (Nut type) .5 ml tube	1
16	800273	5/16-18 x 1 HH capscrew	14
(4)	809001	5/16-18 Whizlock nut	1
18	603843	Idler pulley (heavy duty)	1
19	322166	Cutter Housing w/sheave (LH)	1
20	•323408	Dust shield	1
21	•808506	Retaining ring	1
22	•303057	Cutter housing bearing	2
23	•323315	Cutter housing	1
24	•811001	1/8 N.P.T. Straight zerk	1
25	•322164	Cutter spindle wldmnt (LH)	1
26	•323400	Spacer (long)	1
27	•323399	Spacer (short)	1
28	•807267	Key, 1/4 x 3/16 x 1 1/4	1
29	•303535	Pulley, cast iron	1
30	•513208	5/8 Spring disc washer	1
31	•800861	5/8-18 x 8 HH Capscrw (Gr 5)	1
32	•303164	Spacer, blade drive	4
33	•323339	Washer, retainer (sheave)	1
34	•323402	Spacer, bearing (sheave)	1
35	•804510	5/8-18 UNF hex nut	1
36	303434	Engagement bushing	1
37	303348	Eye bolt (left hand thread)	1
38	303236	Turnbuckle body	1
39	303238	Eye bolt (right hand thread)	1
40	809011	3/8 x 3/4 Shoulder bolt	1
41	806003	Cotter hairpin	3
42	303352	Washer, spindle	2
43	402053	Idler arm, complete (w/bushing)	1
44	•303144	Powder metal bearing	1
45	402077	Cutter housing w/sheave (center)	1
(20)	•323408	Dust shield	1
(21)	•808506	Retaining ring	1
(22)	•303057	Cutter housing bearing	2
(23)	•323315	Cutter housing	1
(24)	•811001	1/8 N.P.T. Straight zerk	1
51	•402075	Cutter spindle wldmnt, center (long)	1
(26)	•323400	Spacer (long)	1
(27)	•323399	Spacer (short)	1
(28)	•807267	Key, 1/4 x 3/16 x 1 1/4	1
55	•403133	Double pulley	1
(30)	•513208	5/8 Spring disc washer	1
57	•800862	5/8-18 x 8 1/2 HH capscrew, Gr5	1
(32)	•303164	Spacer, blade drive	4
59*f*	•323339	Washer, retainer (sheave)	1
60	•323404	Spacer, bearing (center sheave)	1
61*f*	•804510	5/8-18 UNF hex nut	1
62	302198	Assist arm	1
63	323303	Assist arm linkage	1
64	803003	3/8-16 x 1 3/4 Whizlock bolt	1
65	323300	Drive belt (main deck) 48"	1
66	302129	Engagement arm w/bushing	1
(44)	•303144	Powder metal bearing	1
68	403025	V-Belt, front deck	1
69	322167	Cutter Housing w/sheave (RH)	1
(20)	•323408	Dust shield	1
(21)	•808506	Retaining ring	1
(22)	•303057	Cutter housing bearing	2
(23)	•323315	Cutter housing	1
(24)	•811001	1/8 N.P.T. Straight zerk	1
(25)	•322164	Cutter spindle wldmnt (RH)	1
(26)	•323400	Spacer (long)	1
(27)	•323399	Spacer (short)	1
(28)	•807267	Key, 1/4 x 3/16 x 1 1/4	1
(29)	•303535	Pulley, cast iron	1
(30)	•513208	5/8 Spring disc washer	1
(31)	•800861	5/8-18 x 8 HH Capscrw (Gr 5)	1
(32)	•303164	Spacer, blade drive	4
83*f*	•323339	Washer, retainer (sheave)	1
(34)	•323402	Spacer, bearing (sheave)	1
85*f*	•804510	5/8-18 UNF hex nut	1
86	603496	Bushing, idler bearing	1
87	403107	Belt tension rod	1
88	302054	Chute	1
89	800295	3/8-16 X 1 3/4 HH capscrew	1
90	805259	3/8 Flatwasher	2

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED OF THE PRECEDING ASSEMBLY.

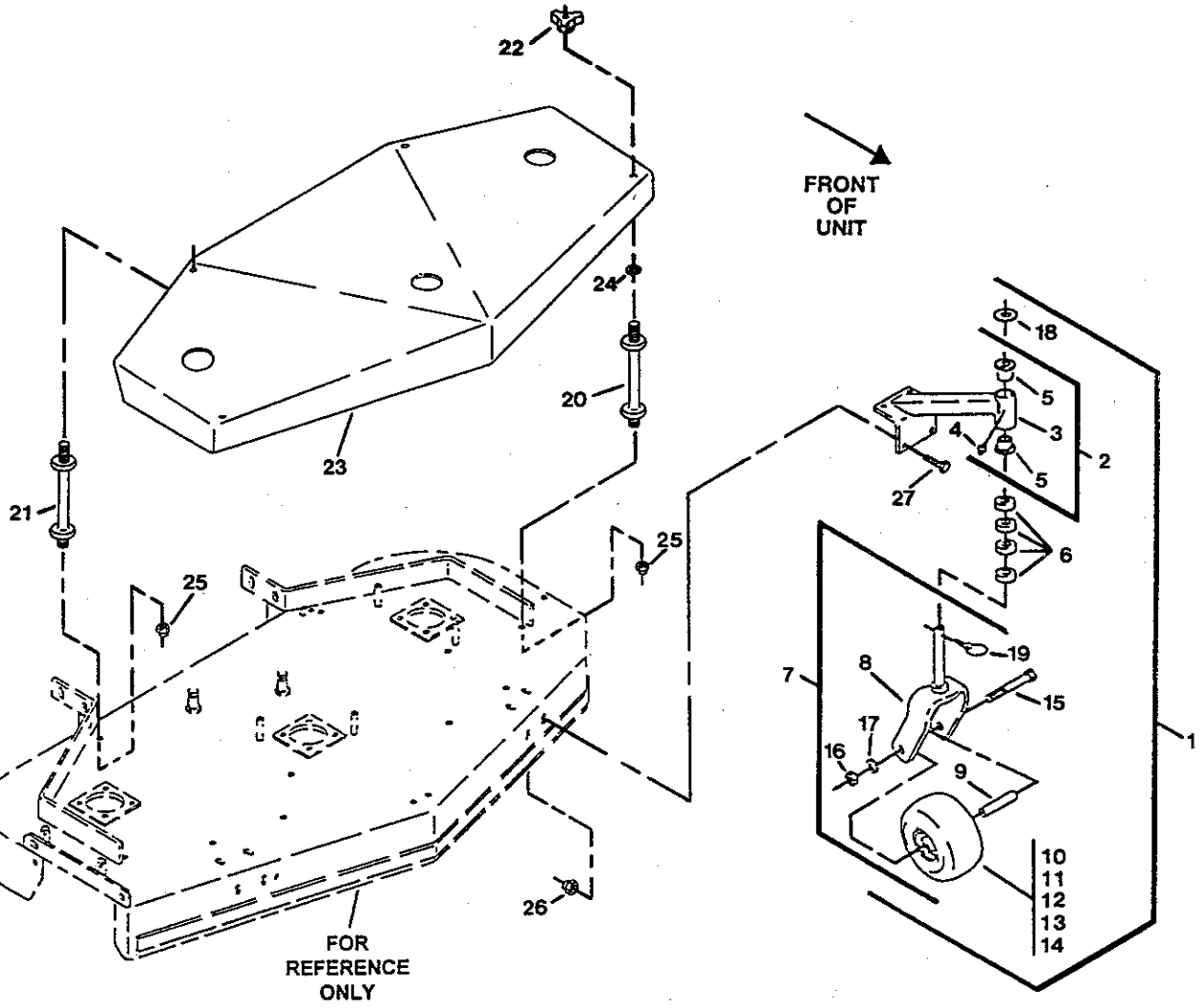
‡ Requires installation of Mulching Kit (Part No. MK48).

f Not illustrated. [Reference to item 15, use Prolock (Nut Type) on setscrew threads (Part No. 803310)]

NOTE: Pulley (Part No. 303535) on the *right hand* side (from operators position) is turned upside down with the long side of the hub facing up.

Reference numbers in parenthesis indicate these parts are also used in other locations.

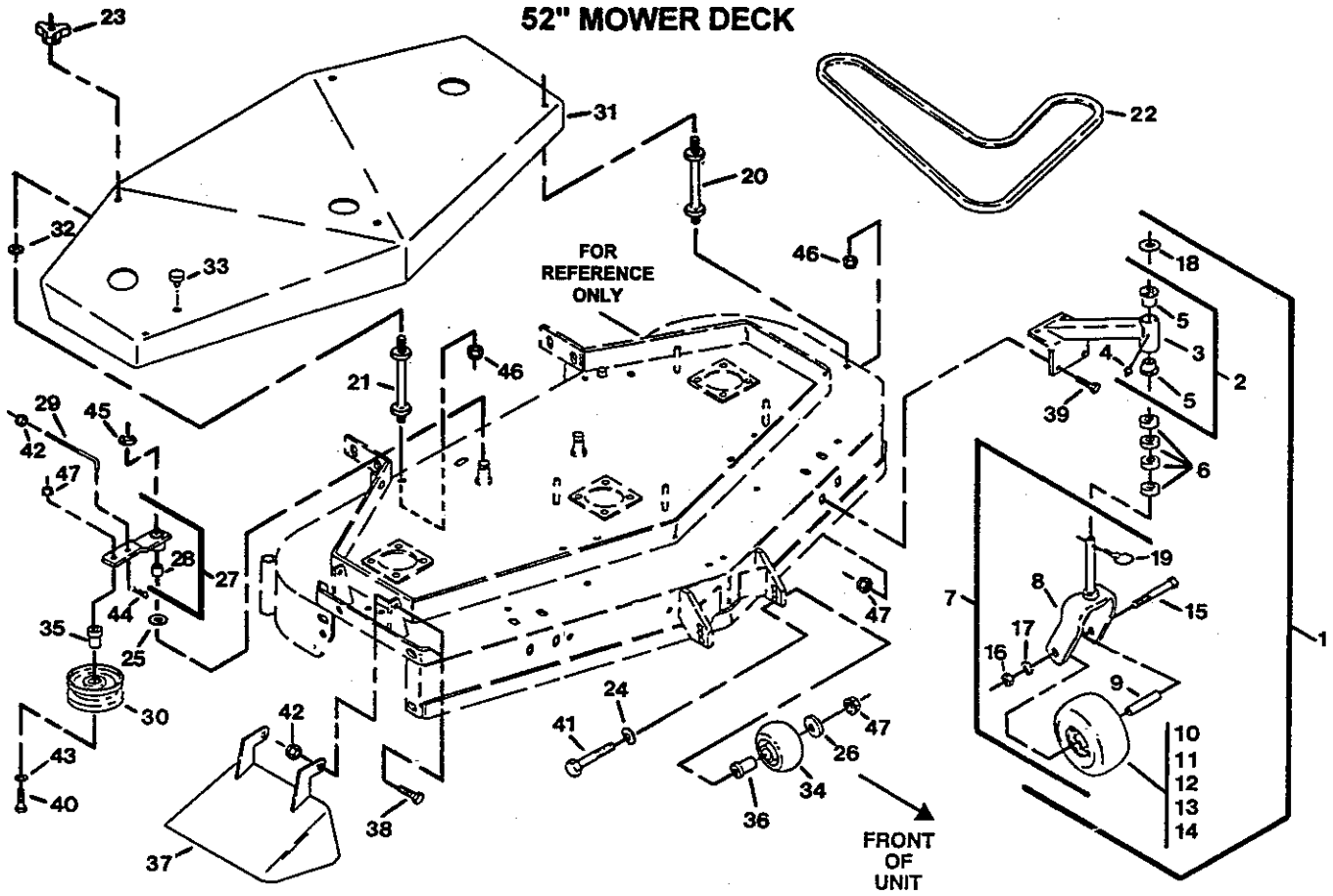
48" MOWER DECK (con't.)



Ref. No.	Part No.	Description	Qty. Req'd.
1	322153	Caster/mount, complete	2
2	•302203	Caster wheel support w/bearings	1
3	••302194	Caster wheel support wldmnt	1
4	•••811001	Grease zerk, 1/8 N.P.T.	1
5	••303514	Flange, thrust bearing	2
6	•303314	Spacer, 10" caster	4
7	•322154	Caster wheel assembly	1
8	••322145	Fork wldmnt, caster	1
9	••513547	Spacer, front caster	1
10	••513648	Wheel & tire, complete	2
11	•••513807	Wheel & hub	1
12	•••513808	Tire, 9 x 3.50-4 4-ply	1
13	•••513809	Roller bearing	1
14	•••513810	Bushing	2
15	••800334	1/2-13 x 6 HH capscrew	1
16	••804509	1/2-13 Hex nut	1
17	••805008	1/2 spring lockwasher	1
18	•513338	Washer, special	1
19	•809020	Quick pin, 10" caster	1
20	303537	Stud, belt shield (short)	2
21	303536	Stud, belt shield (long)	2
22	323385	Knob, belt cover	4
23	404172	Shield wldmnt, 48" Metro	1
24	323417	Washer, belt cover mount	4
25	809001	5/16-18 Whizlock nut	4
26	809007	3/8-16 Whizlock nut	8
27	800290	3/8-16 x 3/4 HH capscrew	8

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

52" MOWER DECK

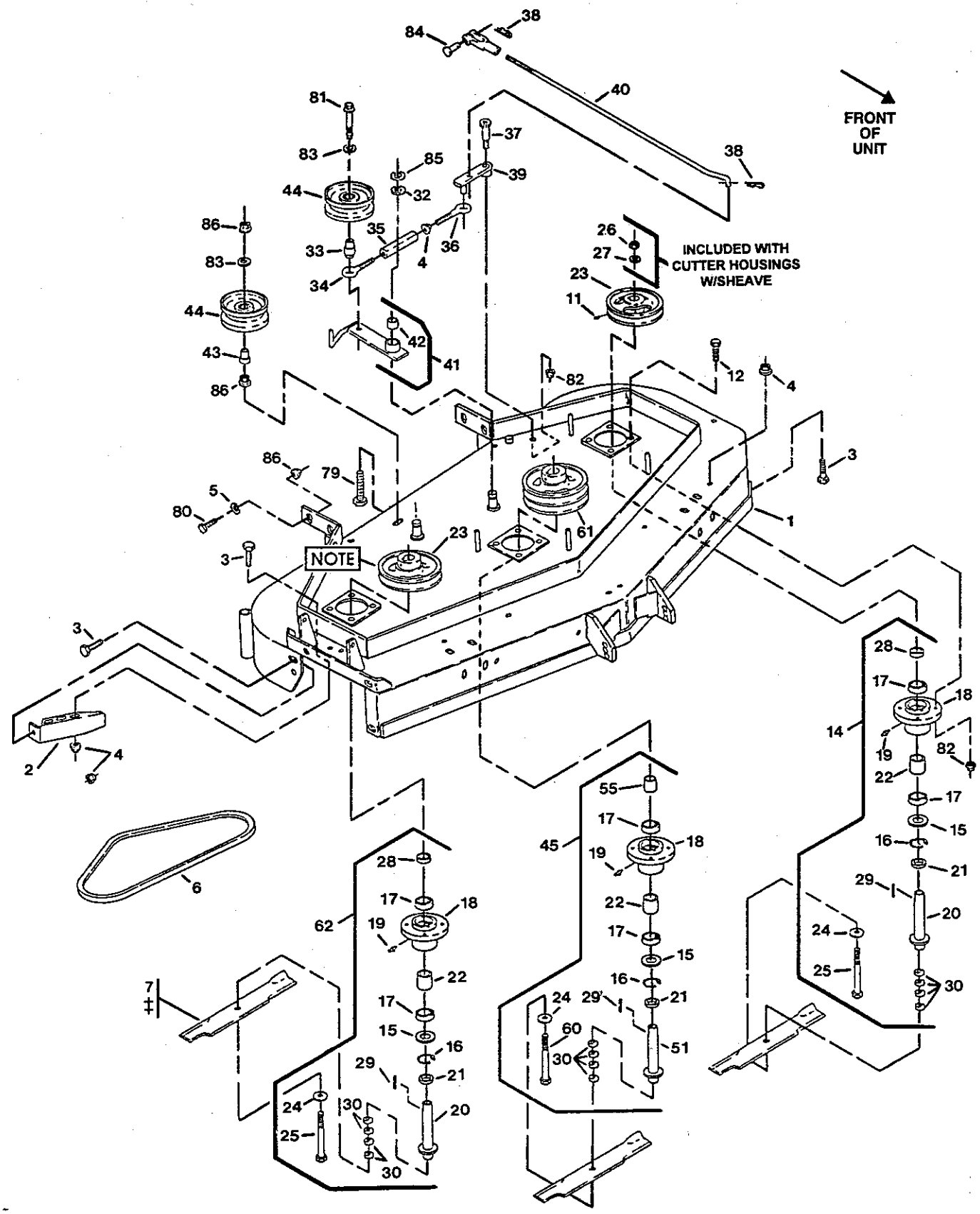


Ref. No.	Part No.	Description	Qty. Req'd.
1	322153	Caster/mount, complete	2
2	•302203	Caster wheel support w/bearings	1
3	••302194	Caster wheel support wldmnt	1
4	•••811001	Grease zerk, 1/8 N.P.T.	1
5	••303514	Flange, thrust bearing	2
6	•303314	Spacer, 10" caster	4
7	•322154	Caster wheel assembly	1
8	••322145	Fork wldmnt, caster	1
9	••513547	Spacer, front caster	1
10	••513648	Wheel & tire, complete	1
11	•••513807	Wheel & hub	1
12	•••513808	Tire, 9 x 3.50-4 4-ply	1
13	•••513809	Roller bearing	1
14	•••513810	Bushing	2
15	••800334	1/2-13 x 6 HH capscrew	1
16	••804509	1/2-13 Hex nut	1
17	••805008	1/2 spring lockwasher	1
18	•513338	Washer, special	1
19	•809020	Quick pin, 10" caster	1
20	303537	Stud, belt shield (short)	2
21	303536	Stud, belt shield (long)	3
22	323301	Drive belt	1
23	323385	Knob, belt cover	5
24	303327	3/8 Disc washer	2

Ref. No.	Part No.	Description	Qty. Req'd.
25	303352	Washer, spindle	1
26	373034	Washer, pivot	2
27	402053	Idler arm, complete (right)	1
28	•303144	Bushing, powdered metal	1
29	403107	Belt tension rod	1
30	403119	Pulley, idler "V"	1
31	404163	Shield wldmnt, 52" Metro	1
32	323417	Washer, belt cover mount	5
33	513291	Bumper, rubber	1
34	603299	Roller, anti-scalp	2
35	603496	Bushing, idler bearing	1
36	603602	Bushing, roller	2
37	602571	Chute	1
38	800273	5/16-18 x 1 HH capscrew	2
39	800290	3/8-16 x 3/4 HH capscrew	8
40	800295	3/8-16 x 1 3/4 HH capscrew	1
41	800807	3/8-16 x 4 HH capscrew Gr. 8	2
42	804256	5/16-18 Nylock hex nut	3
43	805259	3/8 Flat washer	1
44	806003	Cotter hairpin	1
45	808505	E-Ring for .875 rd.	1
46	809001	5/16-18 Whizlock nut	5
47	809007	3/8-16 Whizlock nut	11

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

52" MOWER DECK (con't.)



52" MOWER DECK (cont'd.)

Ref. No.	Part No.	Description	Qty. Req'd.
1	402079	Front Deck w/baffles (52")	1
2	•402057	Baffle wldmnt, discharge	1
3	•800270	5/16-18 x 5/8 HHCS	11
4	•809001	5/16-18 Whizlock nut	11
5	303327	3/8 Disc spring washer	6
6	403105	V-Belt, front deck	1
7	303527	Blade, High Lift 18" (52")	3
	303439	Blade, Low Lift	3
‡	303495	Blade, mulching	3
	303283	Blade, 1/4 x 18" High Lift	3
11	803310	Setscrew, 5/16-18 x 3/8	6
f	840022	Prolock (Nut type) .5 ml tube	1
12	800273	5/16-18 x 1 HH capscrew	12
(5)	809001	5/16-18 Whizlock nut	1
14	322166	Cutter housing w/sheave (LH)	1
15	•323408	Dust shield	1
16	•808506	Retaining ring	1
17	•303057	Cutter housing bearing	2
18	•323315	Cutter housing	1
19	•811001	1/8 N.P.T. Straight zerk	1
20	•322164	Cutter spindle wldmnt	1
21	•323399	Spacer (short)	1
22	•323400	Spacer (long)	1
23	•303535	Pulley, cast iron	1
24	•513208	5/8 Spring disc washer	1
25	•800861	5/8-18 x 8 HH Capscrw (Gr 5)	1
26	•804510	5/8-18 UNF hex nut	1
27	•323339	Washer, retainer (sheave)	1
28	•323402	Spacer, bearing	1
29	•807267	Key, 1/4 x 3/16 x 1 1/4	1
30	•303164	Spacer, blade drive	4
31	303105	Yoke	1
32	303352	Washer, spindle	1
33	303434	Engagement bushing	1
34	303348	Eye bolt (left hand thread)	1
35	303236	Turnbuckle body	1
36	303238	Eye bolt (right hand thread)	1
37	809011	3/8 x 3/4 Shoulder bolt	1
38	806003	Cotter hairpin	2
39	302198	Assist arm	1
40	323305	Assist arm linkage	1
41	302129	Engagement arm w/bushing	1
42	•303144	Bushing, powdered metal	1
43	403074	Bushing, idler	1
44	603843	Idler pulley (heavy duty)	2
45	402077	Cutter housing w/sheave (center)	1
(15)	•323408	Dust shield	1
(16)	•808506	Retaining ring	1
(17)	•303057	Cutter housing bearing	2
(18)	•323315	Cutter housing	1
(19)	•811001	1/8 N.P.T. Straight zerk	1
51	•402075	Cutter spindle wldmnt (long)	1
(21)	•323399	Spacer (short)	1
(22)	•323400	Spacer (long)	1
54*f*	•323339	Washer, retainer (sheave)	1
55	•323404	Spacer, bearing (center sheave)	1
(29)	•807267	Key, 1/4 x 3/16 x 1 1/4	1
(30)	•303164	Spacer, blade drive	4
58*f*	•804510	5/8-18 UNF hex nut	1
(24)	•513208	5/8 Spring disc washer	1
60	•800862	5/8-18 x 8 1/2 HH capscrew, Gr5	1
61	•403133	Double pulley	1
62	322167	Cutter housing w/sheave (RH)	1
(15)	•323408	Dust shield	1
(16)	•808506	Retaining ring	1
(17)	•303057	Cutter housing bearing	2
(18)	•323315	Cutter housing	1
(19)	•811001	1/8 N.P.T. Straight zerk	1
(20)	•322164	Cutter spindle wldmnt	1
(21)	•323399	Spacer (short)	1
(22)	•323400	Spacer (long)	1
(23)	•303535	Pulley, cast iron	1
(24)	•513208	5/8 Spring disc washer	1
(25)	•800861	5/8-18 x 8 HH Capscrw (Gr 5)	1
74*f*	•804510	5/8-18 UNF hex nut	1
75*f*	•323339	Washer, retainer (sheave)	1
(28)	•323402	Spacer, bearing	1
(29)	•807267	Key, 1/4 x 3/16 x 1 1/4	1
(30)	•303164	Spacer, blade drive	4
79	800029	3/8-16 x 2 1/4 HH tap bolt	1
80	800293	3/8-16 x 1 1/4 HH capscrew	6
81	803003	3/8-16 x 1 3/4 Whizlock bolt	1
82	804256	5/16-18 Nylock hex nut	13
83	805259	3/8 Flatwasher	3
84	808280	5/16 x 1 Clevis pin	1
85	808505	E-Ring for .875 rd.	1
86	809007	3/8-16 Whizlock nut	8

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

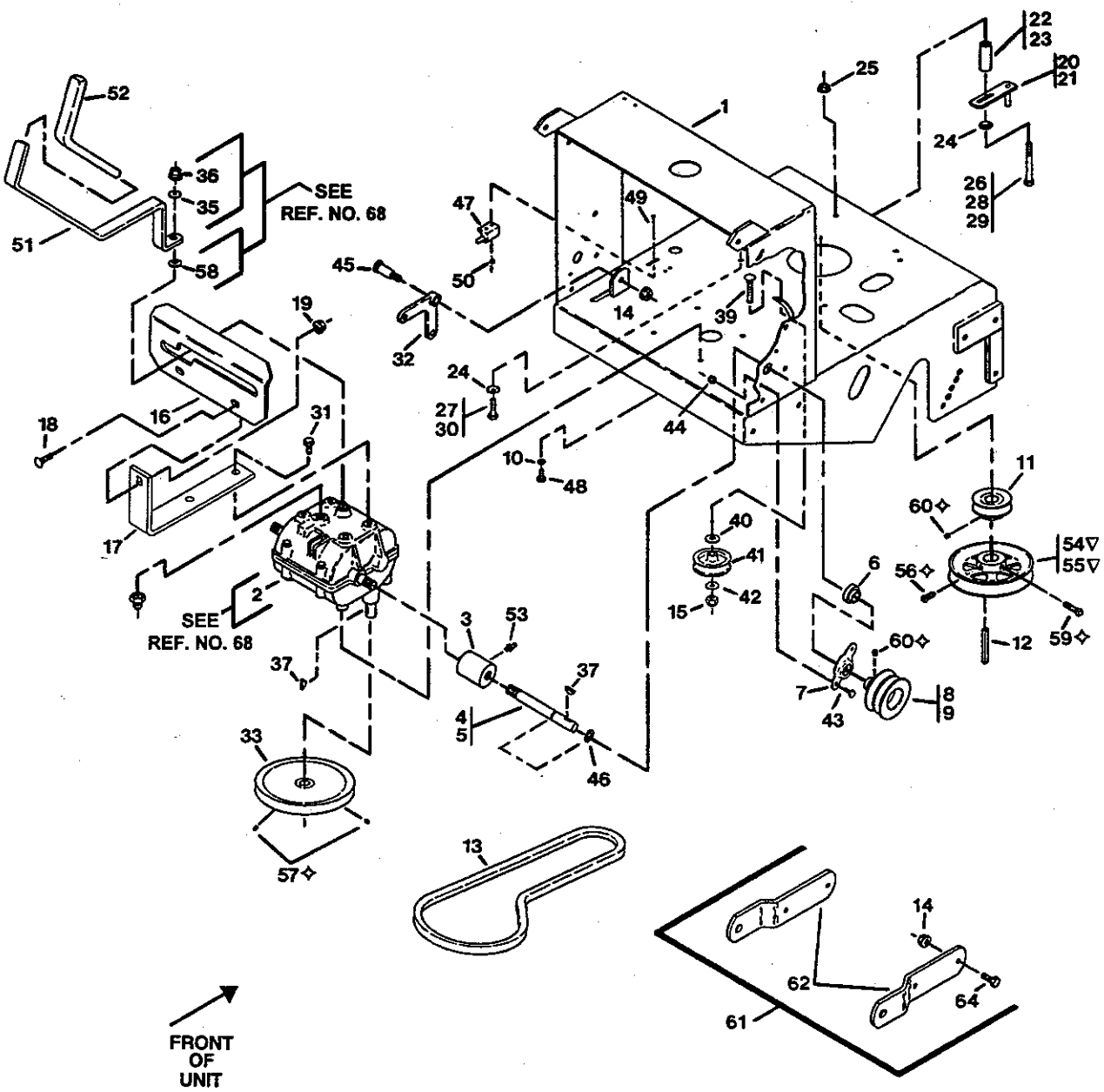
‡ Requires installation of Mulching Kit (Part No. MK52).

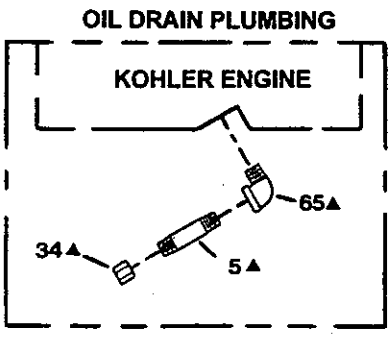
f Not Illustrated. [Reference to item 11, use Pro-lock (Nut type) on threads of setscrews (Part No. 803310)]

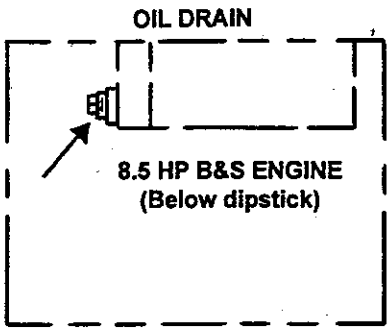
NOTE: Pulley (Part No. 303535) on the *right hand* side (from operators position) is turned upside down with the long part of the hub facing upward.

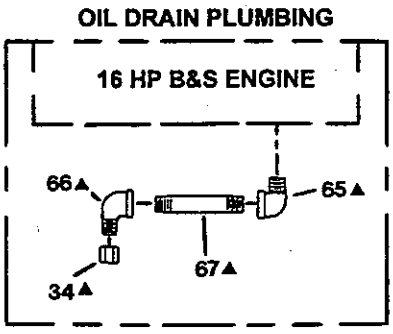
Reference numbers in parenthesis indicate these parts are also used in other locations.

ENGINE DECK GROUP









ENGINE DECK GROUP

Ref. No.	Part No.	Description	Qty. Req'd.
1	322151	Rear deck	1
2	323378	Transmission	1
3	323275	Coupling, transmission shaft	2
4	323274	Output shaft, transmission	2
5▲	323326	Nipple (galvanized) 3/8 NPT x 3.0	1
6	323252	Shaft bearing, transmission	2
7	323254	Bearing flange, transmission shaft	2
8	323257	Sheave, wheel drive, 3 1/4"	2
9	323363	Sheave, wheel drive, 3 1/4" (Single belt pulley for 32" Model)	2
10	805005	5/16 spring lockwasher	4
11	323256	Sheave, transmission drive, 2 3/4"	1
ƒ	840023	Pro-Lock (Retaining) .5cc tube	1
12	807264	1/4 sq. x 2 5/8 Key	1
13	323280	Belt, transmission	1
14	809007	3/8-16 Whizlock nut	1
15	804257	3/8-16 Nylock nut	1
16	323387	Shifter plate	1
17	323389	Leg, shifter lever	2
18	807503	5/16-18 x 3/4 Carriage bolt	2
19	809001	5/16-18 Whizlock nut	2
20	322110	Belt guide wldmnt (32" and 36")	2
21	322110	Belt guide wldmnt (48" and 52")	3
22	323228	Spacer, belt guide (32" and 36")	2
23	323228	Spacer, belt guide (48" and 52")	3
24	303334	5/16 disc spring washer	4
25	809001	5/16-18 Whizlock nut (Only with B/S engines)	4
26	800283	5/16-18 x 3 1/2 HH capscrew (With 48" & 52" Model B&S Engine)	3
(26)	800283	5/16-18 x 3 1/2 HH capscrew (With 32" Model 8.5 HP B&S Engine)	2
27	800275	5/16-18 x 1 1/2 HH capscrew (With 48" & 52" Model B&S Engine)	1
(27)	800275	5/16-18 x 1 1/2 HH capscrew (With 32" Model 8.5 HP B&S Engine)	1
28	809065	M8-1.25 x 75mm HH capscrew (32" and 36" Kawasaki & Kohler)	2
29	809065	M8-1.25 x 75mm HH capscrew (48" and 52" Kawasaki & Kohler)	3
30	809018	M8-1.25 x 30mm HH capscrew (32" and 36" Kawasaki & Kohler)	2
(30)	809018	M8-1.25 x 30mm HH capscrew (48" and 52" Kawasaki & Kohler)	1
31	809013	5/16-18 x 3/4 Tapping screw	4
32	303186	Bell crank	1
33	323278	Sheave, transmission drive	1
34▲	543233	Cap (hex) 3/8 NPT	1
35	303327	3/8 Spring disc washer	1
36	804264	3/8-24 Hex nylock nut	1
37	807009	3/16 x 3/4 Woodruff key	3
38	303282	Neutral start switch	1
39	807511	3/8-16 x 2 Carriage bolt, SSN	1
40	805262	7/16 Std. flatwasher	1
41	323285	Idler pulley, transmission drive	1
42	805259	3/8 SAE flatwasher	1
43	800251	1/4-20 x 5/8 HH capscrew	4
44	804255	1/4-20 Nylock nut	4
45	603403	1/2 x 1 Shoulder bolt	1
46	808509	Retaining ring (ext.) for 5/8 shaft	2
47	513051	Blade engagement switch	1
48	800271	5/16-18 x 3/4 HH capscrew	4
49	803028	10-24 x 5/8 Pan Hd.	2
50	804252	10-24 Nylock nut	2
51	323376	Shift lever	1
52	323250	Foam grip	1
53	811006	1/4-28 Grease zerk (straight)	3
54▽	303498	Pulley, blade drive (6 1/8") (For 36" and 52" Models)	1
55▽	403087	Pulley, blade drive (6 3/4") (For 32" and 48" Models)	1
56✧	803022	5/16-18 x 5/8 Sq. setscrew	1
57✧	803293	1/4-20 x 3/8 Cuppoint setscrew	2
58	323379	Washer, shifter lever	1
59✧	803046	5/16-18 x 1 Sq. setscrew	1
60✧	803310	5/16-18 x 3/8 Cuppoint setscrew	3
61	301023	Sulky Hitch Kit, Metro	1
62	•323318	Hitch bracket	2
(14)	•809007	3/8-16 Whizlock nut	4
64	•800292	3/8-16 x 1 HH capscrew	4
65▲	303431	St. Ell (brass) 3/8 NPT	1
66▲	403124	St. Ell (galvanized) 3/8 NPT	1
67▲	543232	Nipple (galvanized) 3/8 NPT x 4.0	1
68✧	321009	Kit, Metro transmission	1

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

✧ Use Pro-lock (Nut type) Part No. 840022 (.5mm tube) on setscrew threads.

ƒ Not Illustrated. [Reference to item 11, use Pro-lock (Retaining) on sheave bore (Sheave Part No. 323256)]

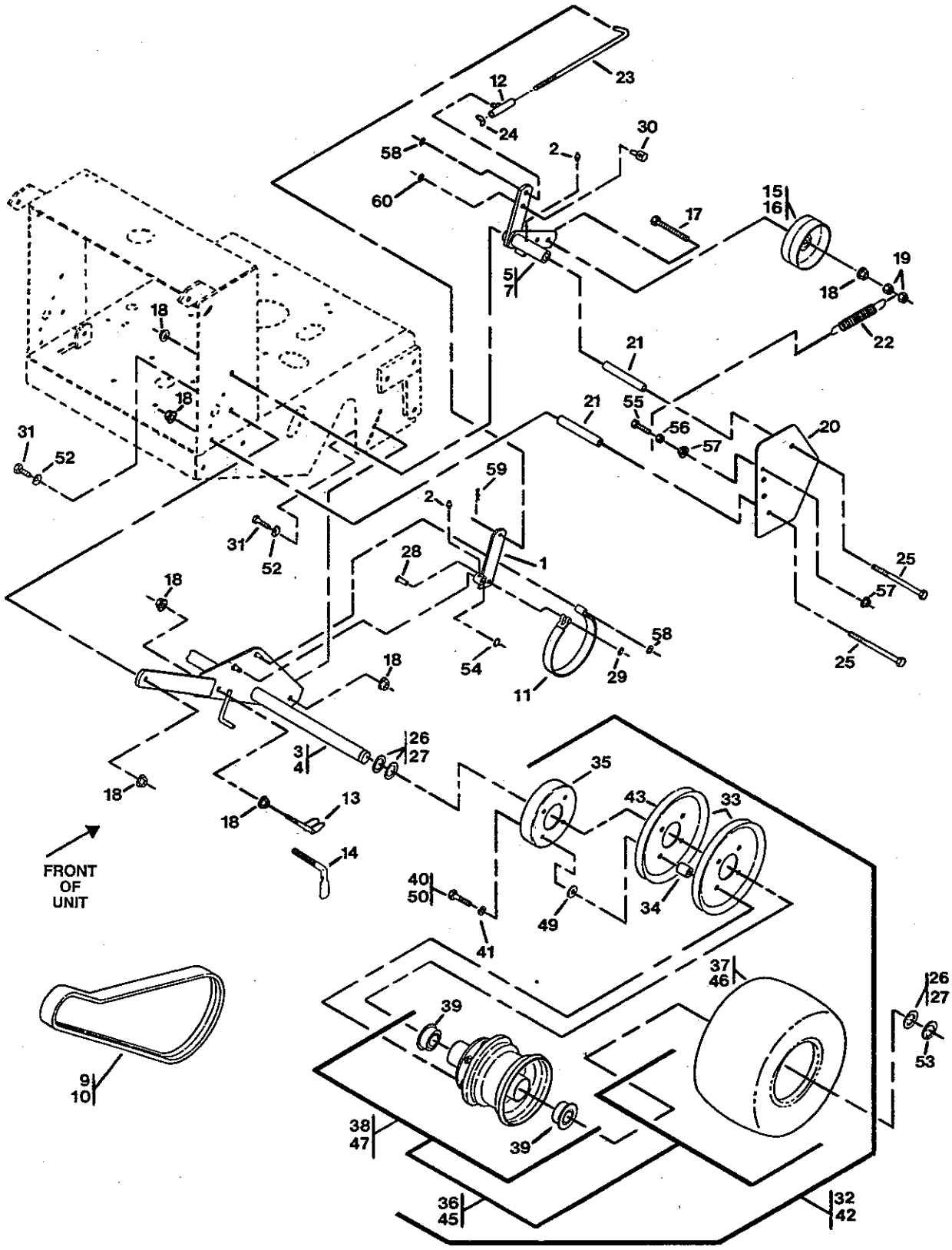
▽ Apply anti-seize compound to pulley bore.

▲ Use Teflon Pipe Sealant (or equivalent) on all threaded areas.

✧ Part No's. 303327, 323378, 323379, and 804264 are included in the Metro Transmission Kit.

Reference numbers in parenthesis indicate these parts are also used in other locations.

ENGINE DECK GROUP (con't.)



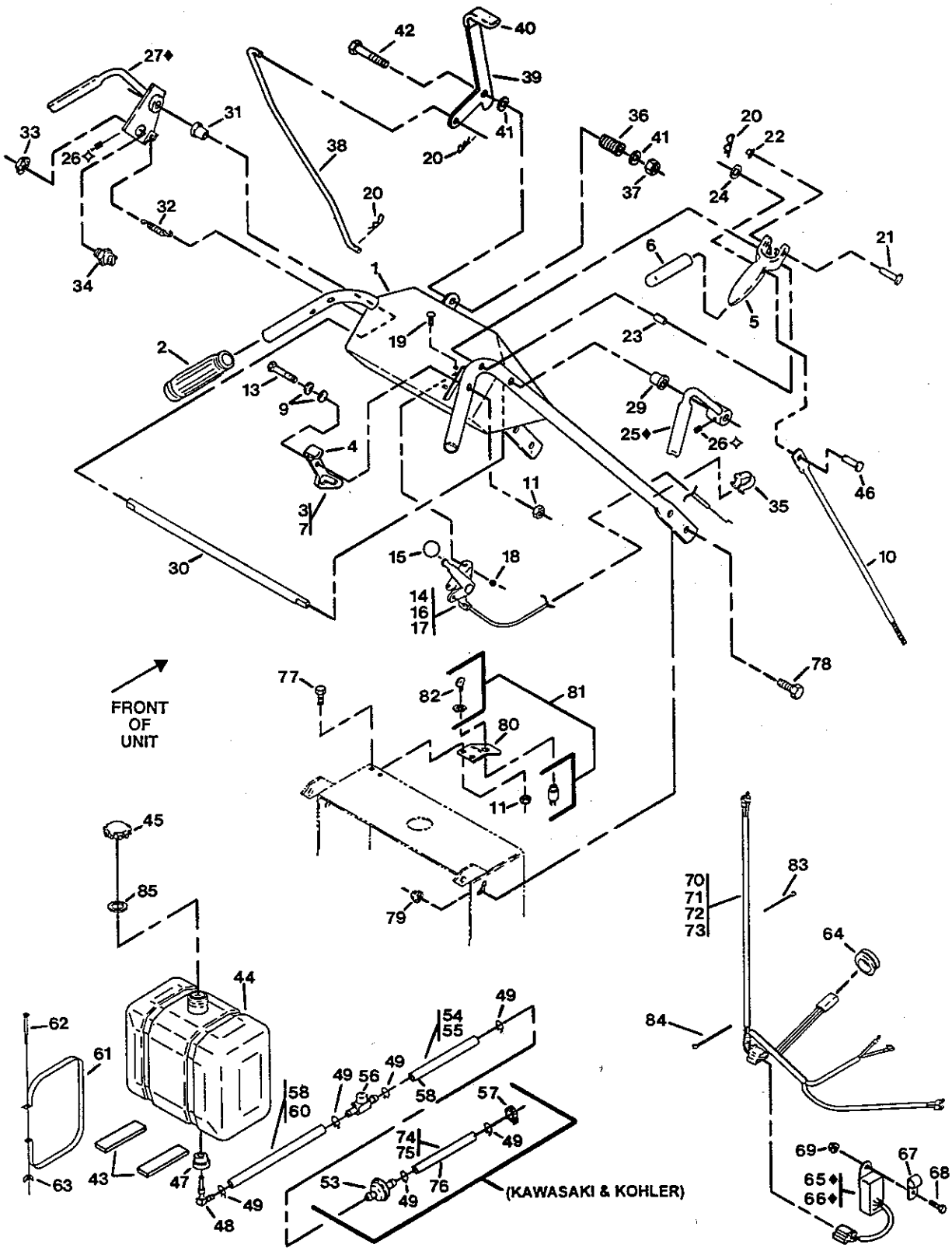
ENGINE DECK GROUP (cont'd.)

Ref. No.	Part No.	Description	Qty. Req'd.
1	322113	Brake arm wldmnt	2
2	•811006	1/4-28 Grease zerk (straight)	1
3	322117	Axle wldmnt	1
4	322141	Axle wldmnt (32" Model)	1
5	322119	Idler arm wldmnt (LH)	1
(2)	•811006	1/4-28 Grease zerk (straight)	1
7	322121	Idler arm wldmnt (RH)	1
(2)	•811006	1/4-28 Grease zerk (straight)	1
9	323288	Belt, wheel drive	2
10	323344	Belt, wheel drive (32" Model)	2
11	323262	Brake band	2
12	322125	Swivel wldmnt, brake linkage	2
13	322123	Scraper wldmnt	2
14	603430	Scraper wldmnt (32" Model)	2
15	323277	Idler pulley, wheel drive	2
16	323352	Idler pulley, wheel drive (32" Model)	2
17	800032	3/8-16 x 3 HH Tap bolt	2
18	809007	3/8-16 Whizlock nut	14
19	804257	3/8-16 Nylock nut	4
20	323287	Shield, wheel drive	2
21	323283	Spacer	4
22	603402	Drive spring	2
23	323296	Brake rod	2
24	513959	5/16-18 Nylock wingnut	2
25	800306	3/8-16 x 5 HH capscrew	4
26	523157	Spacer, wheel (14 Ga.)	As Req'd.
27	543346	Spacer, wheel (18 Ga.)	As Req'd.
28	323307	3/8 Clevis pin	2
29	803051	3/8 Pushnut	2
30	323368	Swivel, short adjust	2
31	800292	3/8-16 x 1 HH capscrew	4
32	324146	Drive wheel, complete	2
33	323253	Sheave, wheel drive (8" A)	2
34	323360	Spacer, wheel sheave	4
35	323261	Brake drum	1
36	323276	Wheel and tire, complete	1
37	303125	Tire, 13 x 6.50 - 6 (4-ply)	1
38	••323328	Wheel & hub w/bearings	1
39	•••323329	Bearing, flanged	2
40	•800275	5/16-18 x 1 1/2 HH capscrew	4
41	•805005	5/16 Spring washer	4
42	324193	Drive wheel, complete (32" Model)	2
43	•323349	Sheave, wheel drive (8" B)	1
(35)	•323261	Brake drum	1
45	•323346	Wheel & Tire, complete	1
46	••323361	Tire, 13 x 5.00 - 6 (4 - ply)	1
47	••323360	Wheel & hub w/bearings	1
(39)	•••323329	Bearing, flanged	2
49	•373034	Swivel washer (32" Model only)	4
50	•800274	5/16-18 x 1 1/4 HH capscrew	4
(41)	•805005	5/16 Spring washer	4
52	303327	3/8 Disc spring washer	4
53	808519	E-Ring (for 1" shaft)	2
54	808501	E-Ring (for 1/2" shaft)	2
55	800274	5/16-18 x 1 1/4 HH capscrew	2
56	804256	5/16-18 Nylock nut	2
57	809001	5/16-18 Whizlock nut	4
58	808522	Klipring (for 3/8 shaft)	4
59	806003	Cotter hairpin, #2	2
60	808520	Klipring (for .31 shaft)	2

• INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN THE PRECEDING ASSEMBLY.

Reference numbers in parenthesis indicate these parts are also used in other locations.

UPPER HANDLES & CONTROLS



UPPER HANDLES & CONTROLS

Ref. No.	Part No.	Description	Qty. Req'd.
1	322102	Handle widmnt, 5-Speed	1
2	303097	Handle grip	2
3	302005	Latch w/grip (left)	1
4	•303019	Grip, latch	1
5	302006	Drive lever w/grip	2
6	•303021	Grip, drive lever	1
7	302007	Latch w/grip (right)	1
(4)	•303019	Grip, latch	1
9	303435	Washer, 1/4 disc spring	4
10	323359	Linkage, wheel drive	2
11	804255	1/4-20 Nylock nut (B&S Vanguard)	4
(11)	804255	1/4-20 Nylock nut (Kohler & Kaw.)	2
13	800257	1/4-20 x 1 3/4 HH capscrew	2
14	323322	Throttle cable (Kaw. & Kohler)	1
15	•513592	Knob, (red ball)	1
16	323377	Throttle cable (8.5 HP, B&S)	1
(15)	•513592	Knob, (red ball)	1
17	543697	Throttle cable (B&S Vanguard)	1
(15)	•513592	Knob, (red ball)	1
18	804252	10-24 Nylock hex nut	2
19	807513	10-24 x 1/2 Carriage bolt	2
20	806003	Hairpin cotter	4
21	808250	3/16 x 1 3/4 Clevis pin	2
22	803001	3/16 Palnut	2
23	806340	5/16 x 1 Rollpin	2
24	805258	5/16 Std. flat washer	2
25♦	302138	Lever, OPC (RH)	1
26✧	•803322	5/16-24 Setscrew	1
ƒ	840023	Pro-Lock (Retaining) .5cc tube	1
27♦	602507	Lever, OPC (LH)	1
(26)	•803322	5/16-24 Setscrew	1
ƒ	840023	Pro-Lock (Retaining) .5cc tube	1
29	303365	Nylon bushing	1
30	303364	Connecting rod	1
31	303369	Bushing, flanged	1
32	303363	Actuator spring	1
33	803034	9/16-18 Palnut	1
34	303372	Operator control switch	1
35	303088	Cable clip	1
36	303160	Compression spring	1
37	804257	3/8-16 Nylock nut	1
38	323298	Linkage, blade drive	1
39	322157	Engagement lever, blade	1
40	•303020	Grip, lever	1
41	805260	3/8 Std. flatwasher	2
42	800296	3/8-16 x 2 HH capscrew	1
43	303315	Pad, gas tank	2
44	543364	Tank, gas	1
45	513508	Cap, fuel tank	1
46	323370	Clevis pin	2
47	513645	Bushing, fuel tank	1
48	543277	Elbow, 90°	1
49	303077	Clamp, fuel line (8.5 HP, B&S)	4
(49)	303077	Clamp, fuel line (B&S Vanguard)	4
(49)	303077	Clamp, fuel line (Kawasaki)	5
(49)	303077	Clamp, fuel line (Kohler)	6
53	303197	Gas filter (Kawasaki & Kohler)	1
54	603776	Fuel line, 2.5" (Kaw. & Kohler)	1
55	303471	Fuel line, 12" (B&S Vanguard)	1
56	603770	Fuel valve	1
57	303308	Clamp, fuel line (Kawasaki)	1
58	603955	Fuel line, 6" (8.5 HP, B&S)	2
59	603955	Fuel line, 6" (Kaw. & Kohler)	1
60	543649	Fuel line, 7" (B&S Vanguard)	1
61	303465	Strap, 5-gal. fuel tank	2
62	801062	Screw, 1/4-20 x 3	2
63	543792	1/4-20 Nylock wingnut	2
64	543296	Grommet, fuel tank	1
65♦	323145	Interlock, OPC (8.5 HP B&S; Kaw.; B&S Vanguard)	1
66♦	323146	Interlock, OPC (Kohler)	1
67	323229	Clip, 3/8 Loom	1
68	800252	1/4-20 x 3/4 HH capscrew	1
69	809012	1/4-20 Whizlock nut	1
70	323308	Wiring harness (Kawasaki)	1
71	323309	Wiring harness (Kohler)	1
72	323310	Wiring harness (B&S Vanguard)	1
73	323390	Wiring harness (8.5 HP, B&S)	1
74	603954	Fuel line, 13.75" (Kohler)	1
75	303022	Fuel line, 8.5" (12.5 HP Kawasaki)	1
76	303471	Fuel line, 12" (14 HP Kawasaki)	1
77	800251	1/4-20 x 5/8 HH capscrew (B&S Vanguard)	2
78	800292	3/8-16 x 1 HH capscrew	4
79	804257	3/8-16 Nylock nut	4
80	403118	Bracket, key switch (B&S Vanguard)	1
81	403121	Key switch, Off/Run (B&S Vanguard)	1
82	603511	Ignition key	1
83	303335	Plastic tie, 7 15/16"	2
84	303287	Plastic tie, 5 1/2"	3
85	303321	Gasket, fuel tank	1

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✧ Use Pro-lock (Nut type) Part No. 840022 (.5 mm tube) on setscrew threads.

ƒ Not illustrated. Use Pro-lock (Retaining) on inside of OPC hub (See Operator's Manual).

♦ OPC refers to Operator Presence Control.

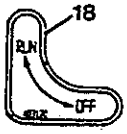
Reference numbers in parenthesis indicate these parts are also used in other locations.

DECALS

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18



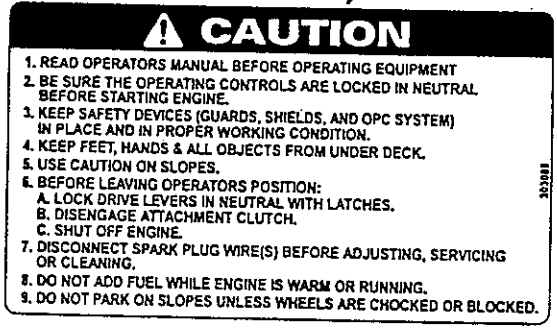


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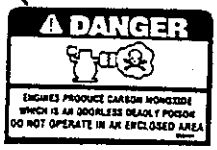
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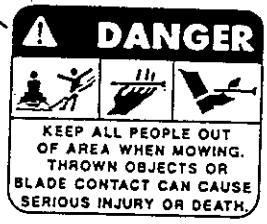
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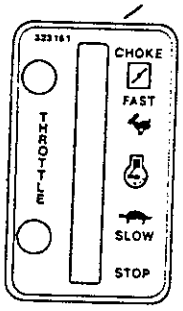
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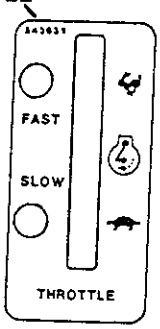
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22



4



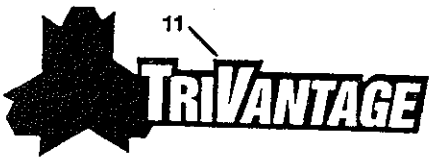
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21



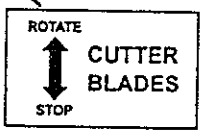
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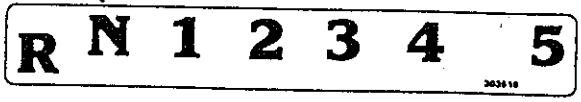
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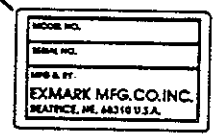
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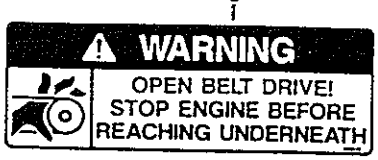
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15



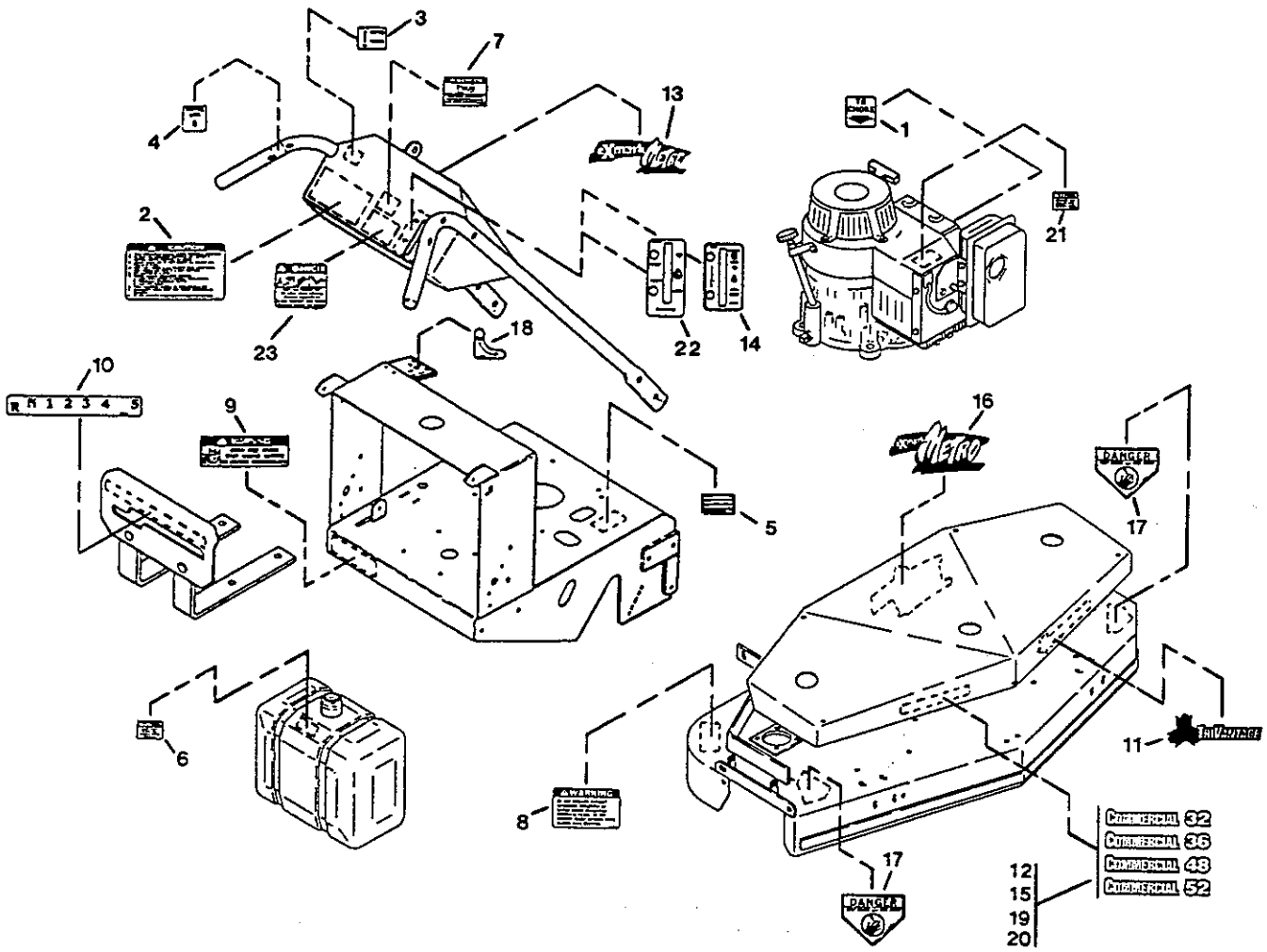
19



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DECAL POSITIONING



Ref. No.	Part No.	Description	Qty. Req'd.
1	303001	Decal, Choke (B&S 8.5 hp)	1
2	303085	Instruction Label	1
3	303100	Decal, Cutter Blade	1
4	303102	Neutral Lock Label	2
5	303161	Serial No. Plate	1
6	303293	Decal, 2 Minute Cool	1
7	303481	Decal, Carbon Monoxide	1
8	303508	Decal, Discharge Warning	1
9	303517	Decal, Belt Drive	1
10	303518	Decal, Shifter	1
11	303520	Decal, TriVantage	1
12	323410	Decal, Commercial 32"	1
13	323312	Decal, Small Metro	1
14	323151	Decal, Throttle/Choke (Kawasaki & Kohler)	1
15	323411	Decal, Commercial 36"	1
16	323412	Decal, Large Metro	1
17	403005	Danger Label	2
18	403120	Decal, Off/Run (B&S Vanguard)	1
19	403131	Decal, Commercial 48"	1
20	403132	Decal, Commercial 52"	1
21	513746	Decal, Muffler	1
22	543631	Decal, Throttle (B&S Vanguard and B&S 8.5 HP)	1
23	543774	Decal, Danger	1

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