

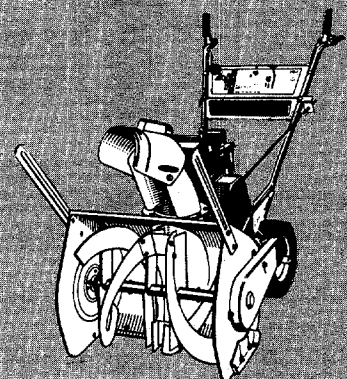
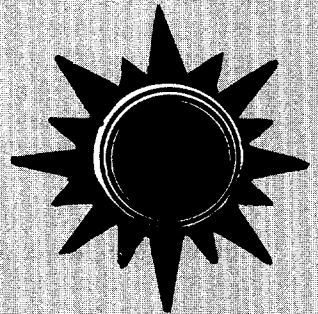
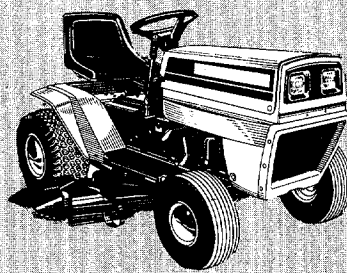
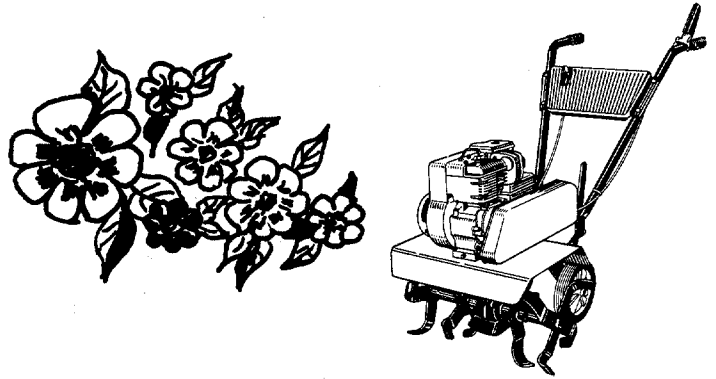
OWNER'S MANUAL

20" REAR DISCHARGE SELF- PROPELLED MOWERS

Model Numbers
122-303A
122-303-089

Important:
**Read Safety Rules and
Instructions Carefully**

Thank you for purchasing an
American built product.



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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



WARNING

TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR WALK-BEHIND MOWERS

TRAINING

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Read this Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
4. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause injury.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Do not wear loose fitting clothing that could get caught on the mower.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. Never attempt to make a wheel or cutting height adjustment while the engine is running.
7. Mow only in daylight or in good artificial light.
8. Never operate the equipment in wet grass. Always be sure of your footing. Keep a firm hold on the handle and walk, never run.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the

engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.

5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop the engine whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
8. Before attempting to unclog the mower or discharge chute, stop the engine and be sure the blade has stopped completely. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
9. Do not run the engine indoors.
10. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
11. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
12. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting.
13. Never operate mower without proper guards, plates or other safety protective devices in place.
14. Keep washout ports and other mower-housing service openings closed when mowing.
15. **DO NOT OPERATE** this mower with the chute doors open, unless the complete grass catcher is properly mounted on the mower.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

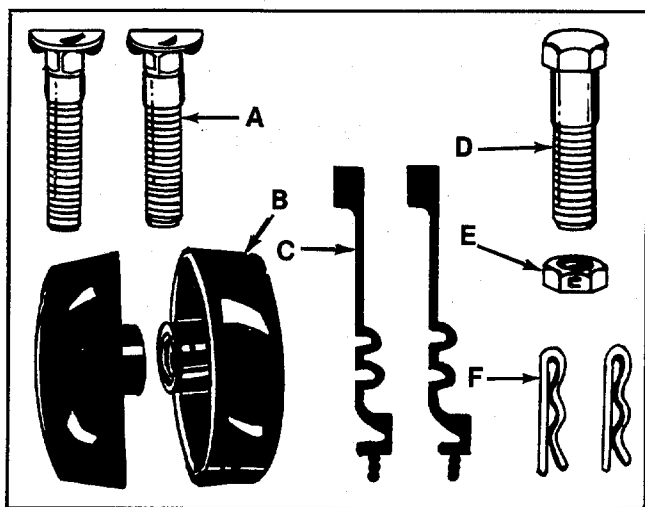


FIGURE 1.

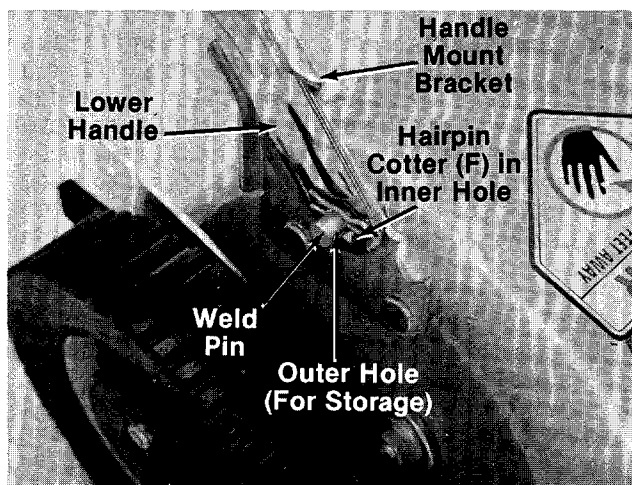


FIGURE 2.

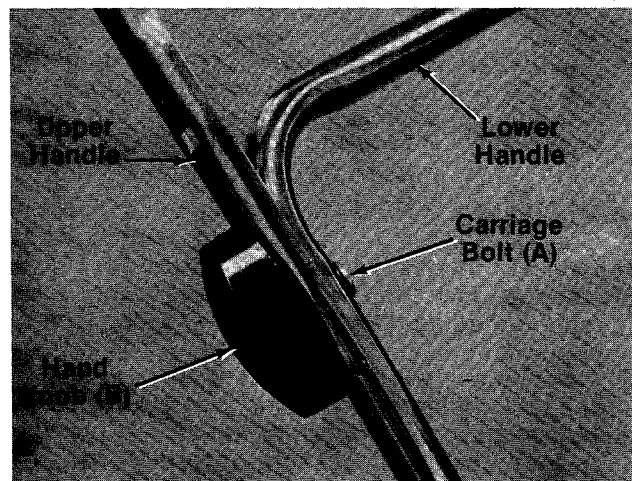


FIGURE 3.

ASSEMBLY INSTRUCTIONS



NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

1. Remove lawn mower and loose parts from carton. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Extend throttle control which is attached to the engine at the rear of the mower and place on the floor. Be careful not to bend or kink control wire.

← Contents of hardware pack: (See Figure 1)

- A (2) Curved Head Carriage Bolts
- B (2) Hand Knobs
- C (2) Cable Ties
- D (1) Hex Bolt $\frac{1}{4}$ -20 x 1.50" Long
- E (1) Hex Lock Nut $\frac{1}{4}$ -20 Thread
- F (2) Hairpin Cotters

3. Fasten lower handle in position over weld pins in handle mount brackets on deck. Secure with hairpin cotters (F) in inner hole on weld pin. See figure 2.



NOTE

There are two (2) holes in the handle mount brackets. Place the hairpin cotter in the inner hole for operation. Outer hole is for storage.



NOTE

It may be necessary to bend the ends of the lower handle inward slightly to obtain a tight fit against the handle mount brackets.

4. There are two height positions for the handle. Place upper handle (with the clutch control attached) in position over lower handle, selecting hole for either high or low position. Refer to figure 20. Secure upper handle with two curved carriage bolts (A) and hand knobs (B) as shown in figure 3. The knobs may be assembled either to the inside or the outside of the handle.

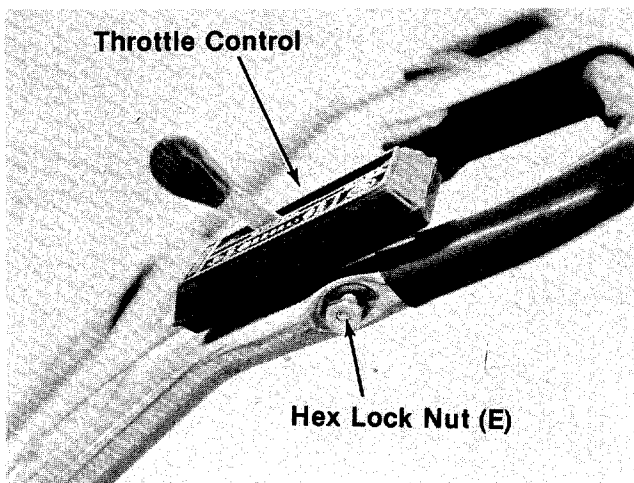


FIGURE 4.

- ← 5. Place the throttle control in position on left side of upper handle. Secure with hex bolt (D) and lock nut (E). See figure 4.



Reference to right or left hand side of the mower is observed from the operating position.

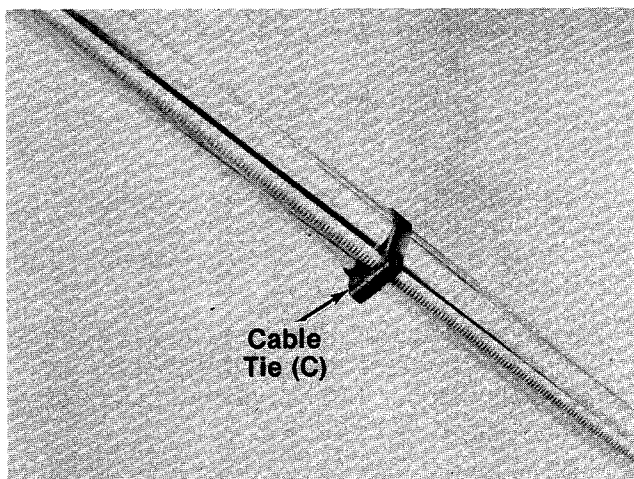


FIGURE 5.

- ← 6. Secure throttle and clutch control wires to upper and lower handles with cable ties (C). See figure 5.
7. Check ALL nuts and bolts for correct tightness.

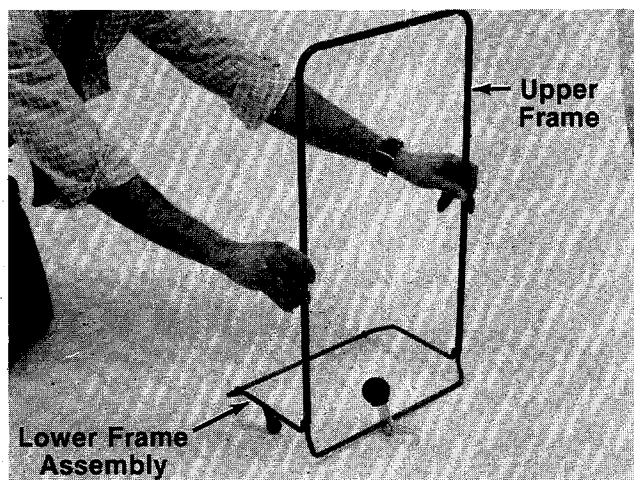


FIGURE 6.

Grass Catcher Assembly

- ← 1. Place the upper frame over the lower frame assembly as shown in figure 6.

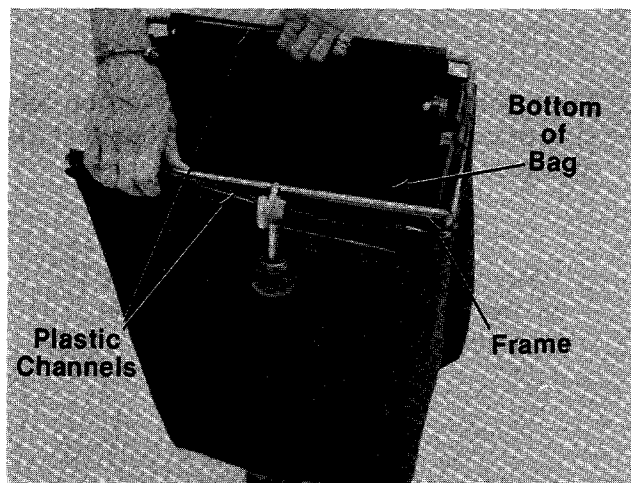


FIGURE 7.

2. Place bag over frame (black plastic side is the bottom of bag). Upper frame goes to the top of bag.

- ← 3. Secure bag to frame by slipping plastic channels on bag over frame. See figure 7.

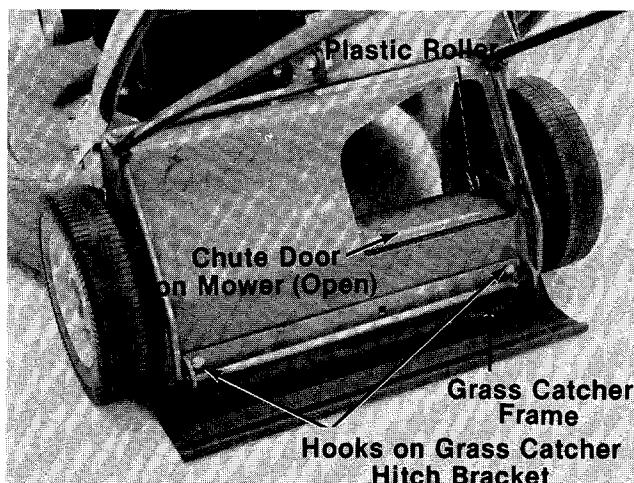


FIGURE 8.

To Attach Bag To Mower



WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.

- ← 1. Attach the grass catcher frame to grass catcher hitch bracket on rear of the mower by hooking grass catcher into hooks on grass catcher hitch bracket. See figure 8.
2. Lift the rear of grass catcher up. The roller on the grass catcher will push the chute door on the mower open. See figure 8.



NOTE

Figure 8 is shown with the chute door open for photo clarity only.

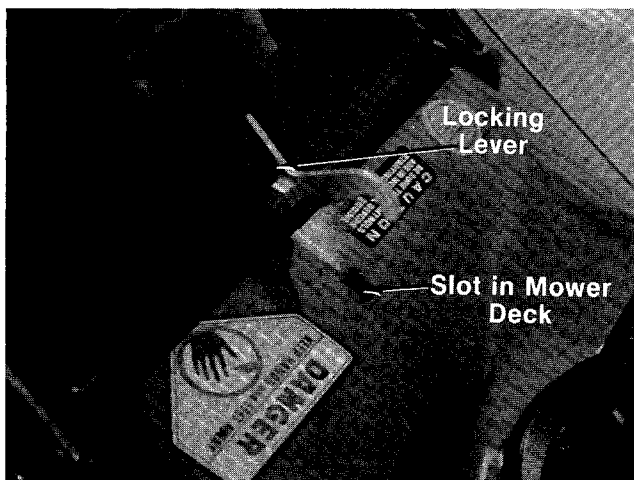


FIGURE 9.

- ← 3. Move the locking lever forward and hook in slot on mower. See figures 9 and 10.



FIGURE 10.

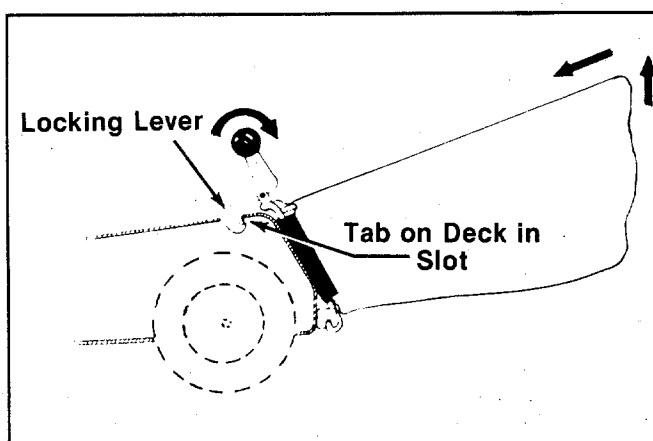


FIGURE 11.

To Remove Grass Catcher

1. To remove the grass catcher, lift the rear of grass catcher, push forward and unhook locking lever.
2. Lift off grass catcher.

CONTROLS

THROTTLE CONTROL

The throttle control is located on the left side of the handle. It is used to regulate the engine speed and to stop the engine. See figure 10.

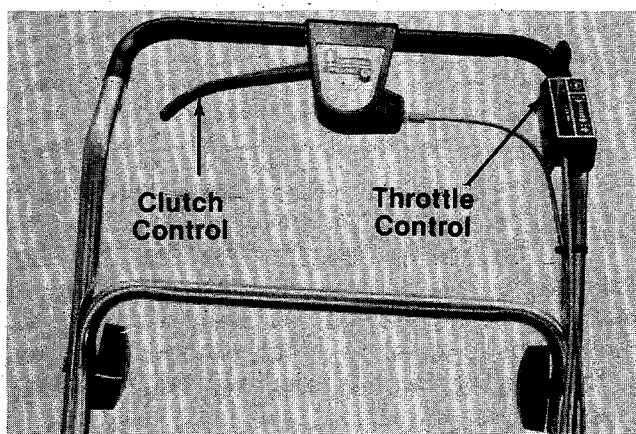


FIGURE 12.

CLUTCH CONTROL

Squeezing the clutch control engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figures 13, 14 and 15.



The blade continues to rotate when the clutch is released.



FIGURE 13.

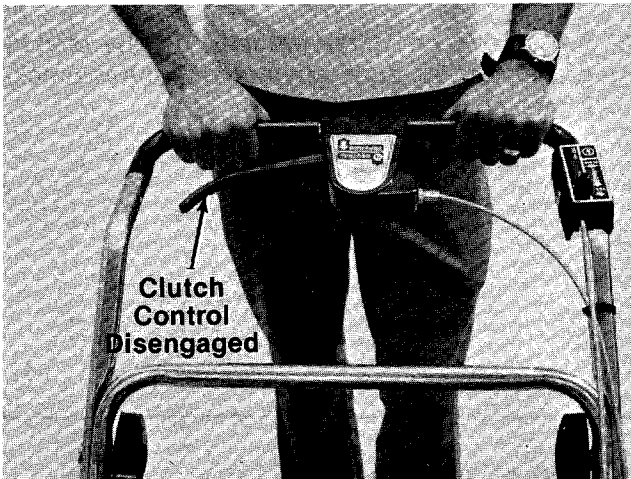


FIGURE 14.

OPERATION

DO NOT OPERATE THIS MOWER WITH THE CHUTE DOOR OPEN, UNLESS THE COMPLETE GRASSCATCHER IS PROPERLY MOUNTED ON THE MOWER.



FIGURE 15.

Keep hands and feet away from the chute area on cutting deck. See figure 15.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See adjustment section.

1. Fill sump with oil as instructed in the separate engine manual packed with your unit.
2. Fill fuel tank, using clean, fresh, leaded **regular** grade automotive gasoline. Fill tank completely!

DO NOT MIX OIL WITH GASOLINE.

3. Before each use, check for proper clutch operation by performing the following before starting the engine:

With the clutch control released, push mower forward. It should move freely.

Pull mower backward. It should move freely.

If it does not and the rear wheels tend to lock up, the clutch may not be releasing completely. Do not attempt to start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, and grass build-up in the pulley groove. Be certain the cable housing is secure in the socket on the belt cover.

Correct and adjust as required. See adjustment section. Test again.

4. Check to see that the handle is in the operating detent in the brackets on the deck, and the upstop projections restrict the handle from moving up and forward. If necessary, remove the left side from the mounting pin on the deck bracket. Push inward to decrease the spacing between the two sides of the handle until it is slightly less than the spacing of the deck brackets. Reinstall over the mounting pin and secure the hairpin cotter in the inner holes.
5. When ready to start engine, place throttle control lever on handle in "START" position and start engine in accordance with instructions in engine manual. After engine starts, move throttle control lever on handle to desired engine speed. The engine is stopped by placing control lever on handle in the "STOP" position.

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.



IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.



WARNING

Unless the entire grass catcher is correctly positioned on the mower, do not open the discharge chute door when the engine is running.

USING YOUR ROTARY MOWER

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper bagging of grass clippings. If wet grass must be cut, reduce walking speed.

New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

ADJUSTMENTS



CAUTION

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CUTTING HEIGHT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has five holes. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figures 16 and 17.



FIGURE 16.

Cutting height will be raised as front levers are moved to the front, and rear levers are lowered. Cutting height will be lowered as front levers are moved to the rear, and rear levers are raised. All wheels must be positioned at the same height. For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

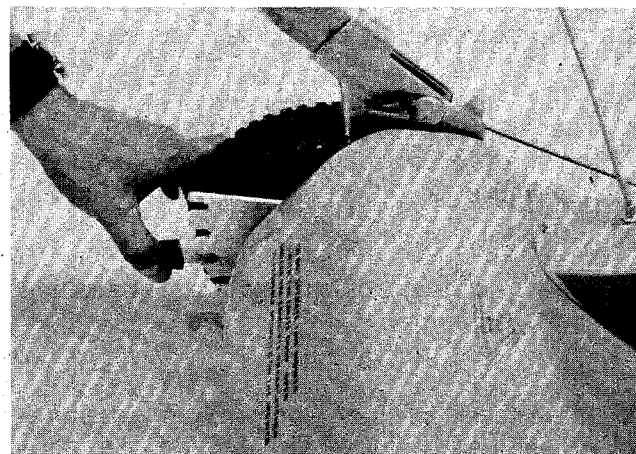


FIGURE 17.

CLUTCH CONTROL ADJUSTMENT

1. If the unit does not self-propel in the "FORWARD" position of the clutch control, loosen jam nut and back off two or three threads. Thread the barrel nut on end of control cable outward two or three threads. Retighten jam nut and retest. See figure 18.
2. If your unit moves forward in the "NEUTRAL" position, loosen jam nut and back off two or three threads. Thread the barrel nut on end of control cable inward two or three threads. Retighten jam nut and retest. Unit should not move forward in neutral position. See figure 18.

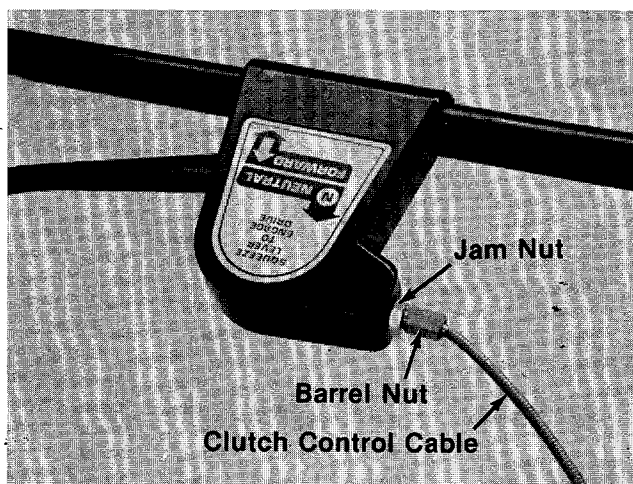


FIGURE 18.

THROTTLE

If adjustment becomes necessary, the throttle control wire assembly can be reset as follows:

1. Loosen, but do not remove, the screw securing throttle control wire assembly at engine. See figure 19.
2. Move throttle control lever on handle to "FAST" position.
3. Move lever to which control wire is fastened at engine to full open position. Retighten screw to secure throttle control wire assembly.

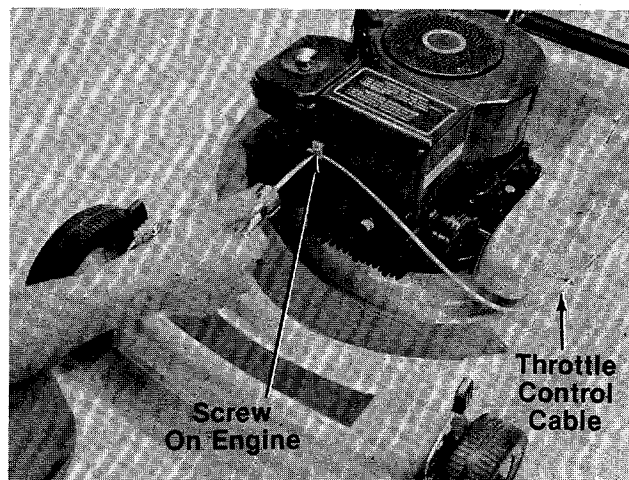


FIGURE 19.

HANDLE POSITION

The upper handle can be adjusted to a high or low position. The operator of the lawn mower can easily adjust the handle position by unscrewing the two knobs, removing the two bolts and reassembling in the other position. No tools are necessary to make this adjustment. See figure 20.

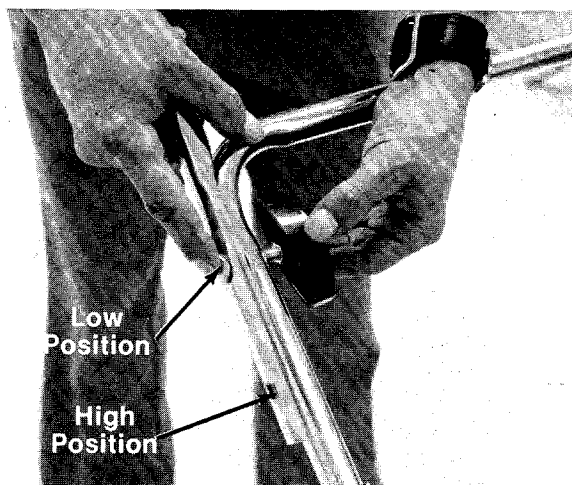


FIGURE 20.

CARBURETOR ADJUSTMENTS



If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

All carburetor adjustments should be made with the air cleaner on engine. Air cleaner mounting screw must be in carburetor when engine is run. Best adjustment is made with a fuel tank half full of gasoline.

To adjust carburetor, refer to the separate engine manual packed with your mower.

LUBRICATION



Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Wheels—Wheel bearings are of self-lubricating Fortiflex. They require no lubrication. However, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—Periodically lubricate the chain with appropriate chain lubricant. A stiff or rusted chain can be restored by removing the master link, soaking the chain in kerosene or a solvent, letting it air dry and wiping the chain with a rag saturated with lubricant.

If the rotary mower is operated in a sandy area, the chain should not be lubricated with oil. Excessive oil on a chain will collect dirt and cause excessive wear on the chain and sprockets.

Discharge Chute Door Mechanism—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Door must work freely.

MAINTENANCE



Disconnect spark plug wire and ground it against the engine before performing any repairs or maintenance.

CUTTING BLADE

A. Removal for Sharpening or Replacement



Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting.

1. Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. See figure 21.
2. Remove the blade and adapter from the crankshaft. Be careful not to lose the key on the crankshaft.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

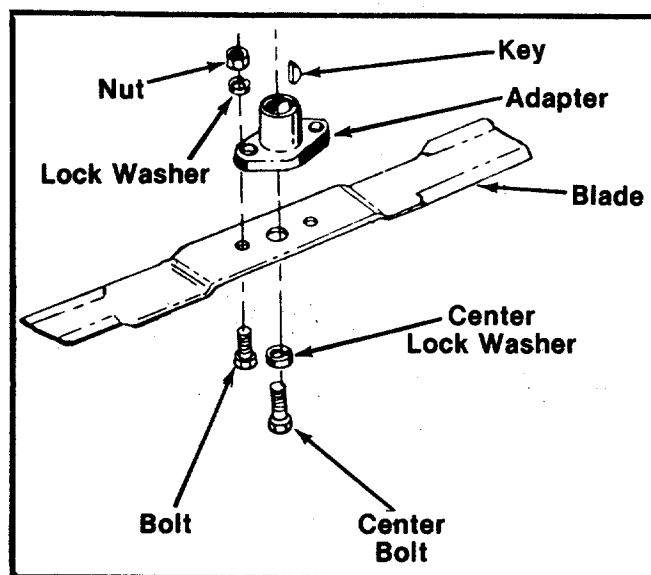


FIGURE 21.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly. See figure 22.



NOTE

It is recommended that the blade always be removed from the adapter for the best test of balance.

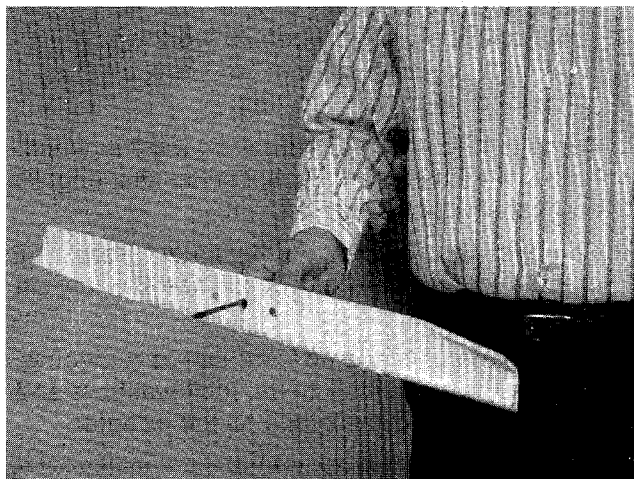


FIGURE 22.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position. Make certain key is in place on the crankshaft.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

Pay particular attention to the area of the rear baffle and chain. Grass may accumulate in this area and must be cleaned out periodically to prevent possible problems with the clutch engagement.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.



CAUTION

Do not direct the stream of water at a hot engine as damage to the engine may result. Be sure spark plug wire is disconnected.

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation. ADD oil as necessary to keep level full to point of overflowing. Before removing oil fill plug, clean area around plug to prevent dirt from entering oil fill hole. Engine should be in a level position when checking oil.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm. Oil may be drained thru drain on bottom of engine. To drain completely, always place engine level when draining thru the bottom. Oil capacity 1-1/4 pints. See figure 23.

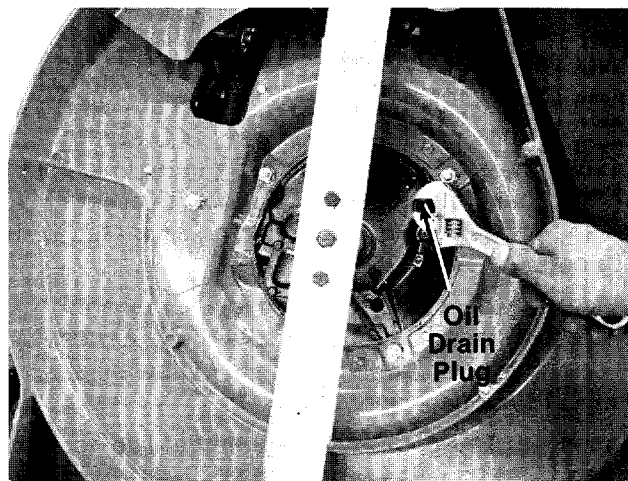


FIGURE 23.

AIR CLEANER

Service air cleaner every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced.

To service air cleaner, refer to the separate engine manual packed with your unit.

SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

BELT REMOVAL

1. Disconnect the wire from the spark plug and ground it.
2. Drain the fuel tank or place a piece of plastic film beneath the cap to prevent gasoline leakage.
3. Remove the three screws holding the cable clip and belt guard (and idler assembly). See figures 24 and 25.

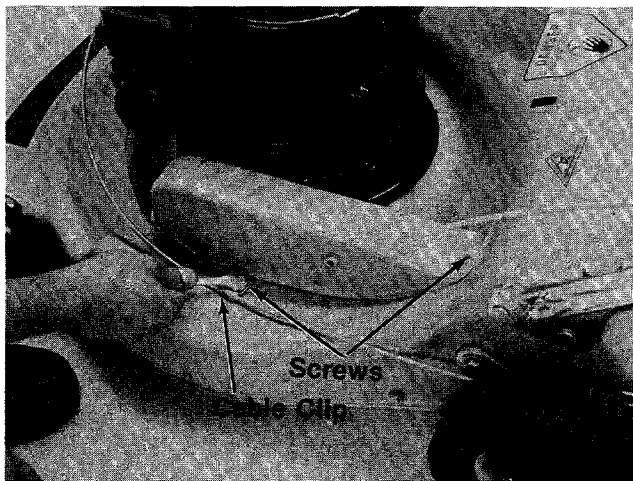


FIGURE 24.

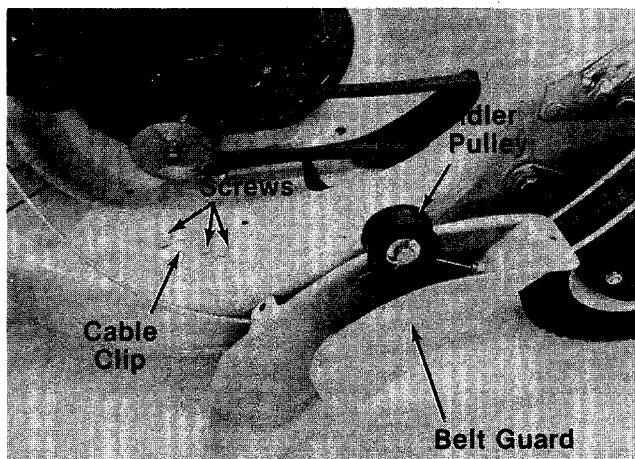


FIGURE 25.

4. Remove the belt from the idler as you lift off the belt guard.
5. Remove hex nut and lock washer from height adjustment lever on left side of mower as shown in figure 26.

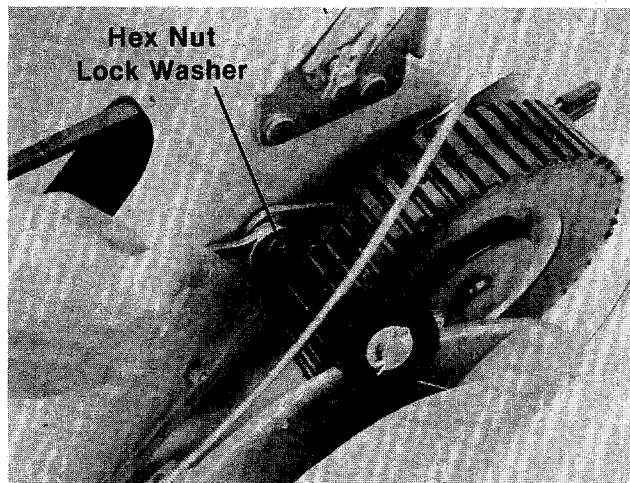


FIGURE 26.

6. Place the mower on its side.



Make sure that the mower is secure and cannot tip over.

7. Remove two screws, nuts and lock washers. Remove one hex nut and lock washer from cover plate. See figure 27.

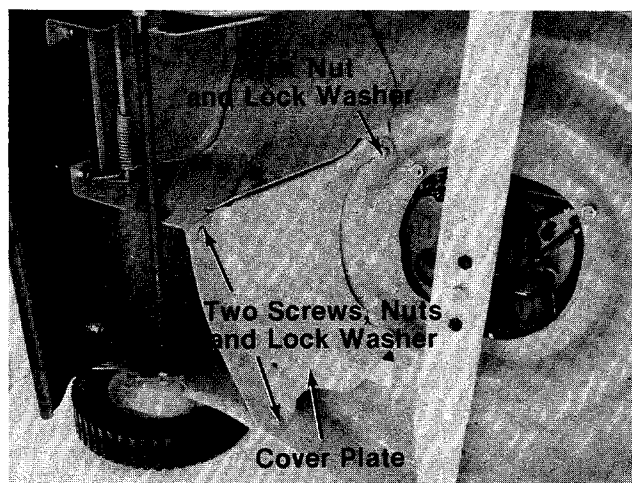


FIGURE 27.

8. Remove the cover plate. See figure 28.

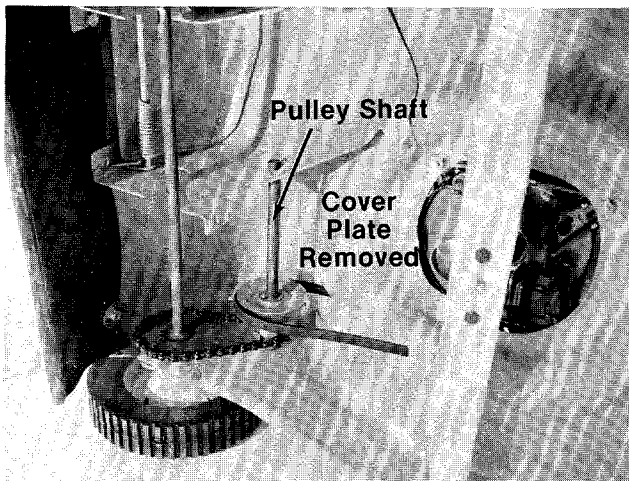


FIGURE 28.

9. Remove master link from the chain by rotating chain by hand to locate the master link. Use a screwdriver to remove the clip. Remove plate and link. See figure 29.

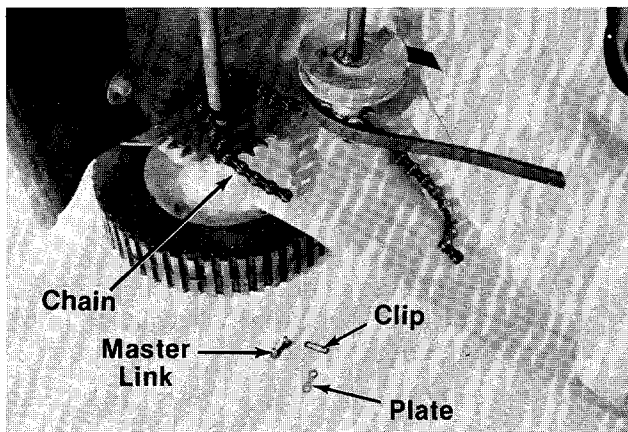


FIGURE 29.

10. Remove the chain, pulley shaft and belt. See figure 30.

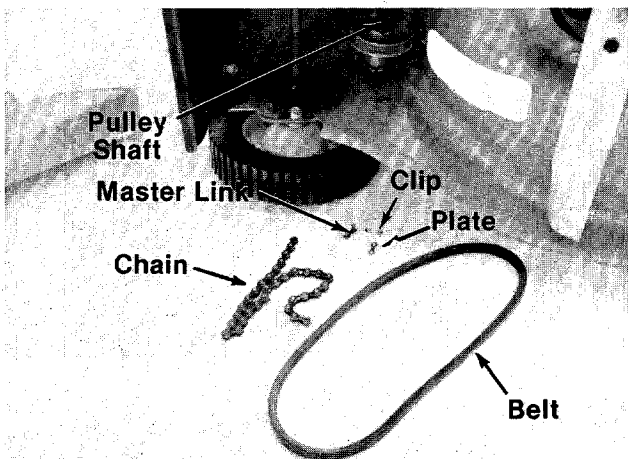


FIGURE 30.

11. Reassemble in reverse order with the new belt, making certain the idler pulley is under the belt. See figure 31.



When reinstalling the chain, be sure the closed end of the master link clip faces in the direction of chain travel.

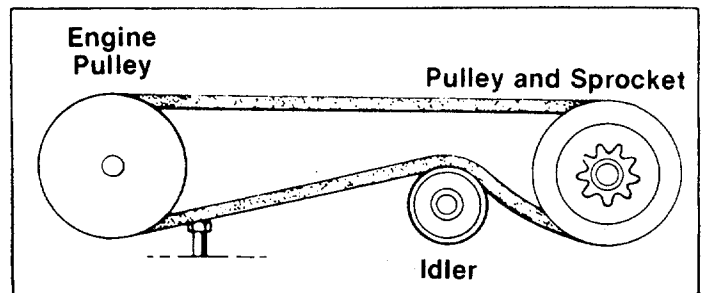


FIGURE 31.

HANDLE STORAGE

The handle can be stored in an upright position to take less space. See figure 32. Move hairpin cot- ters to outer hole on weld pins (see figure 2). Grasp the lower handle at the bottom and pull apart slightly. Tip the handle forward. It will lock in this position. Reverse this procedure to place the handle in the operating position.

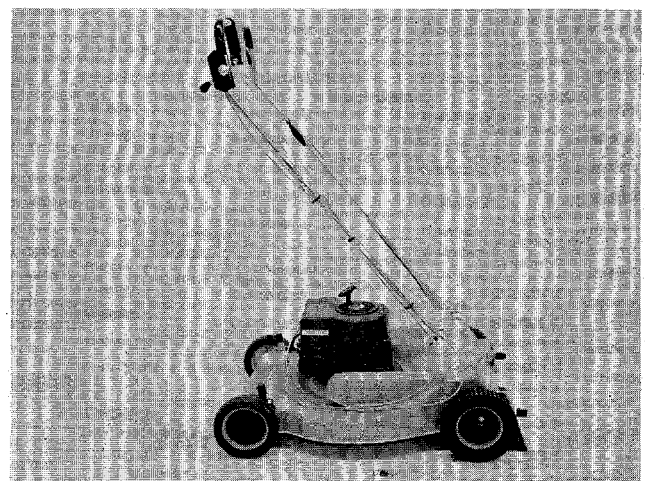


FIGURE 32.

The handle on these models may also be folded away completely for storage. See figures 32, 33, and 34.

1. Remove hairpin cotters from inner hole on weld pins on handle mount brackets. Place in outer hole.
2. Loosen the hand knobs on each side of the handle.
3. Press outward on the bottom of each side of the lower handle, and push forward.
4. Fold the upper handle back and down as shown.

To take the handle out of storage position, proceed as follows.

1. Lift the upper handle up and towards the rear as shown.
2. Pull the handle back until it locks into the operator's position.
3. Tighten the two hand knobs securely.
4. Move the hairpin cotters to the inner hole on the weld pins.

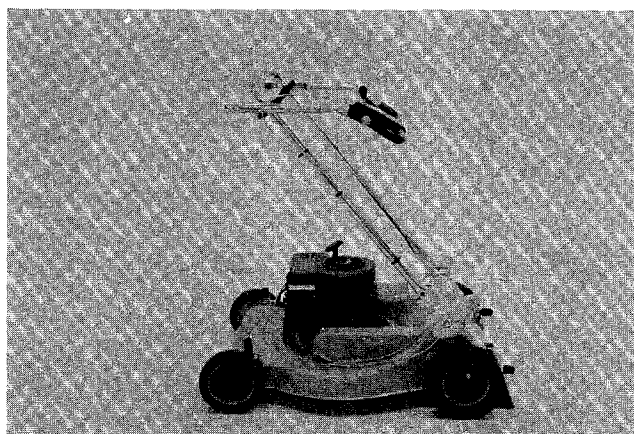


FIGURE 33.

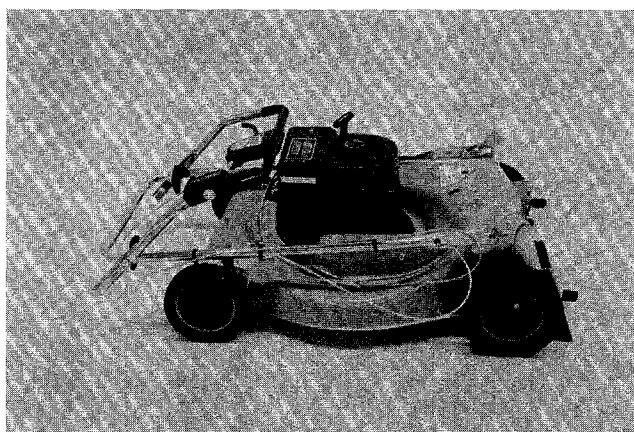


FIGURE 34.

OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank. Then run the engine until all fuel in the carburetor is exhausted.



WARNING

Do not drain fuel while smoking, or if near an open fire.

2. Clean the engine and the entire mower thoroughly.
3. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm). Refill the crankcase with clean new oil.
4. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about 2 or 3 tablespoons of engine oil into the cylinder. Turn the engine over several times to spread out the oil. Replace the spark plug, but do not connect the wire.
5. Lubricate all lubrication points.



NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.



WARNING

DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.



WARNING

The mower shall not be operated without the protective shield on the rear of the mower in place.

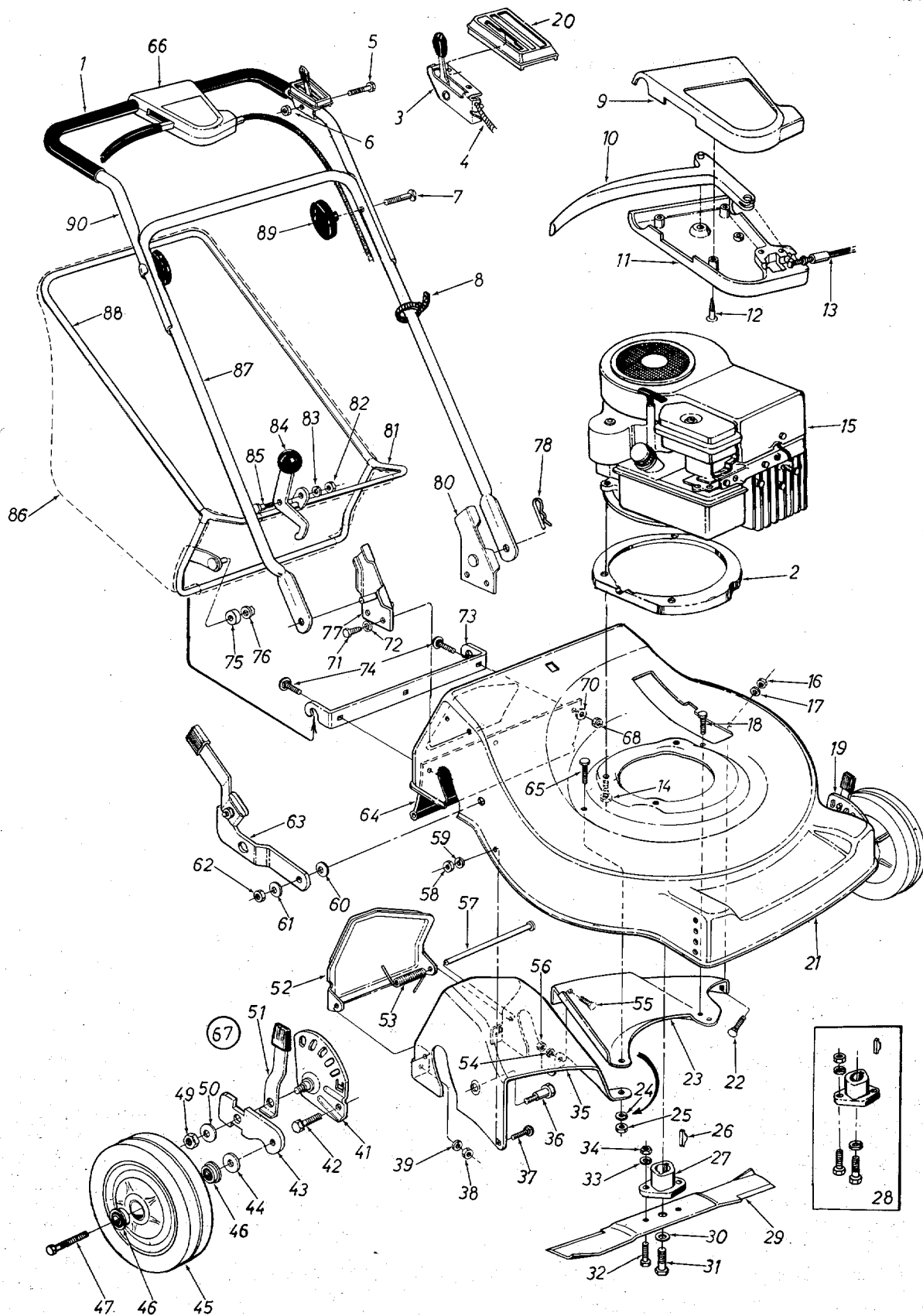


NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0171.

Model 303



Model 303

PARTS LIST FOR MODEL 303 ROTARY MOWER

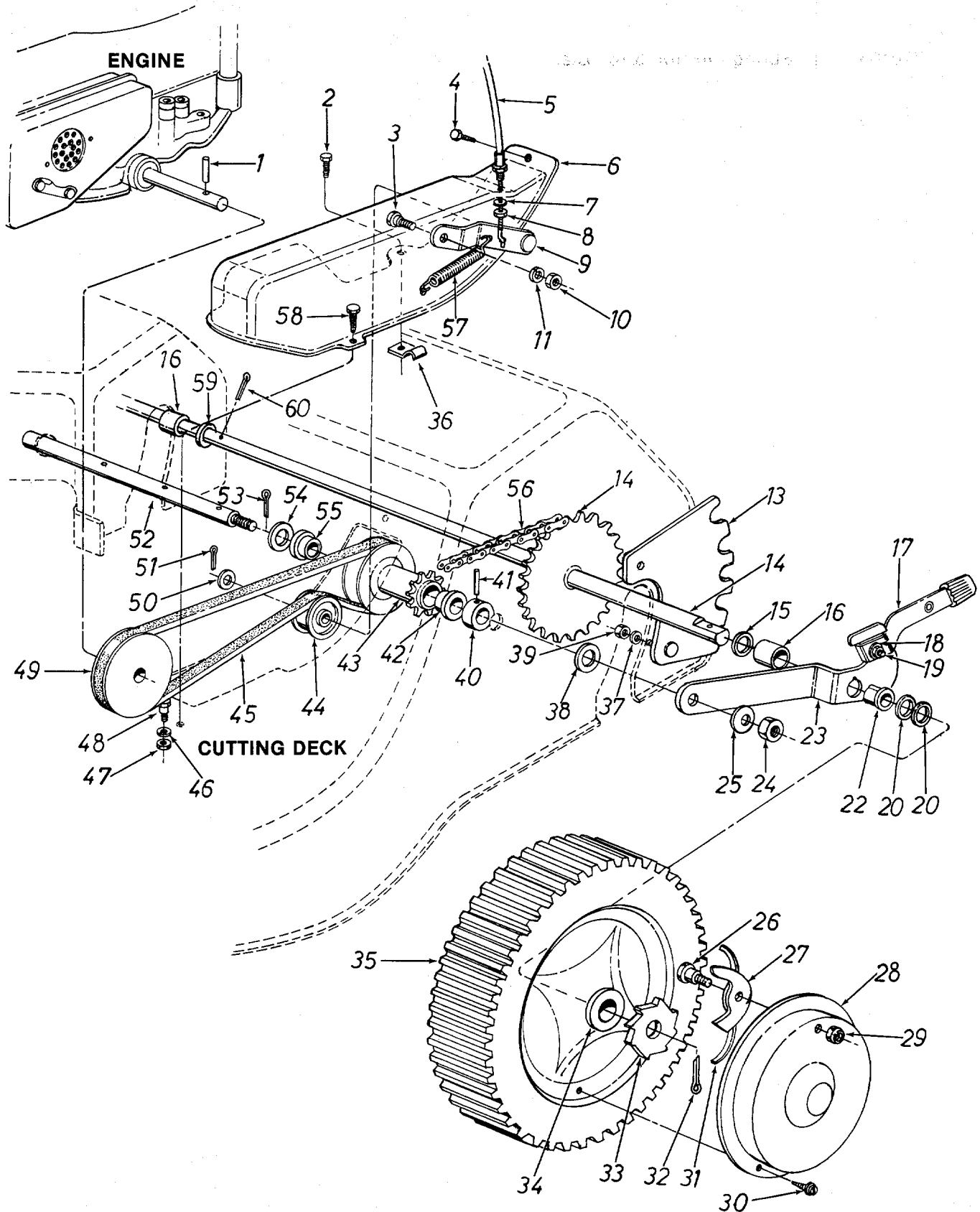
| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|----------|----------|---|----------|----------|---|
| 1 | 718-0145 | Grip | 45 | 734-0892 | Wheel Ass'y. Comp. |
| 2 | 13773 | Engine Mount Cover | 46 | 741-0262 | Fortiflex Bearing 1/2" I.D. |
| 3 | 746-0350 | Complete Throttle Ass'y. | 47 | 738-0102 | Axle Bolt |
| 4 | 746-0352 | Conduit and Wire | 49 | 712-0342 | Hex Jam Nut 3/8-16 Thd. |
| 5 | 710-0606 | Hex Bolt 1/4-20 x 1.50" Lg.* | 50 | 736-0105 | Bell-Wash. .400 x .88 x .060 |
| 6 | 712-0107 | Hex L-Nut 1/4-20 Thd. | 51 | 10949 | Spring Lever Ass'y. w/Knob |
| 7 | 710-0405 | Curved Carr. Bolt 5/16-18 x 1.75" Lg.* | 52 | 13407 | Chute Door |
| 8 | 726-0192 | Cable Tie | 53 | 732-0346 | Torsion Spring |
| 9 | 731-0407 | Front Cover | 54 | 736-0329 | L-Wash. 1/4-20 Scr.* |
| 10 | 731-0406 | Lever Clutch Control | 55 | 710-0167 | Carr. Bolt 1/4-20 x .50" Lg.* |
| 11 | 731-0408 | Rear Cover | 56 | 712-0287 | Hex Nut 1/4-20 Thd.* |
| 12 | 710-0535 | Slotted Oval Self-Tap Scr. | 57 | 738-0386 | Hinge Pin .250 Dia. x 7.88" Lg. |
| 13 | 746-0311 | Clutch Control Cable | 58 | 712-0287 | Hex Nut 1/4-20 Thd.* |
| 14 | 710-0654 | Hex Wash. Hd. Self-Tap Scr. 3/8-16 x .88" Lg. | 59 | 736-0329 | L-Wash. 1/4" Scr.* |
| 15 | — | Engine | 60 | 736-0219 | Bell-Wash. .400 I.D. x 1.13 O.D. x .040 |
| 16 | 712-0287 | Hex Nut 1/4-20 Thd.* | 61 | 736-0105 | Bell-Wash. .400 I.D. x .88 O.D. x .060 |
| 17 | 736-0329 | L-Wash. 1/4" Scr.* | 62 | 712-0342 | Hex Jam Nut 3/8-16 Thd. |
| 18 | 710-0642 | Hex Wash. S Tapp Scr. 1/4-20 x .75" Lg. | 63 | 10639 | Brkt. Ass'y. R.H. Pivot |
| 19 | 10941 | Height Adj. Ass'y. Comp.—L.H. | 64 | 731-0432 | Rear Flap Ass'y. 16.0" Lg. |
| 20 | 731-0344 | Plastic Label | 65 | 710-0258 | Hex Bolt 1/4-20 x .62" |
| 21 | 13401 | 20" Deck Ass'y. | 66 | 13627 | Clutch Control Ass'y. |
| 22 | 710-0167 | Carr. Bolt 1/4-20 x .50" Lg. | 67 | 10938 | Height Adj. Ass'y Comp.—R.H. |
| 23 | 13405 | Rear Chute Baffle L.H. | 68 | 712-0271 | Sems Hex Nut 1/4-20 Thd. |
| 24 | 736-0329 | L-Wash. 1/4" Scr.* | 70 | 736-0211 | FI-Wash. .281 I.D. x 1.25 O.D. x .060 |
| 25 | 712-0287 | Hex Nut 1/4-20 Thd.* | 71 | 710-0776 | Hex AB Tap Scr. 1/4-20 x .62" Lg. |
| 26 | 714-0365 | #6 Hi-Pro Key 5/32 x 5/8" Dia. | 72 | 736-0329 | L-Wash. 1/4" I.D.* |
| 27 | 748-0189 | Blade Adapter | 73 | 14012 | Grass Catcher Hitch Brkt. |
| 28 | 10769 | Blade Adapter Kit | 74 | 710-0703 | Carriage Bolt 1/4-20 x .75" Lg. |
| 29 | 742-0123 | 20" Blade | 75 | 731-0430 | Plastic Roller |
| 30 | 736-0217 | L-Wash. 3/8" Scr. H.D. | 76 | 726-0100 | Push Cap 3/8" Rod |
| 31 | 710-0459 | Hex Bolt 3/8-24 x 1.50" Lg. H.T. | 77 | 12296 | Handle Brkt. Ass'y.—R.H. |
| 32 | 710-0117 | Hex Bolt 5/16-24 x 1.00" Lg.* | 78 | 714-0104 | Hairpin Cotter |
| 33 | 736-0119 | L-Wash. 5/16" Scr.* | 80 | 12297 | Handle Brkt. Ass'y.—L.H. |
| 34 | 712-0123 | Hex Nut 5/16-24 Thd.* | 81 | 13924 | Grass Catcher Lower Frame Ass'y. |
| 35 | 14235 | Rear Chute Baffle R.H. Ass'y. | 82 | 712-0267 | Hex Nut 5/16-18 Thd.* |
| 36 | 738-0430 | Shld. Bolt .500 Dia. x .685 | 83 | 736-0119 | L-Wash. 5/16" Scr.* |
| 37 | 710-0167 | Carr. Bolt 1/4-20 x .50" Lg.* | 84 | 13435 | Cam Lever Grip Ass'y. |
| 38 | 712-0287 | Hex Nut 1/4-20 Thd.* | 85 | 738-0140 | Shld. Bolt .437 Dia. x .180 |
| 39 | 736-0329 | L-Wash. 1/4" Scr.* | 86 | 764-0171 | Grass Bag |
| 41 | 10934 | Index Plate R.H. | 87 | 749-0375 | Lower Handle |
| | 10935 | Index Plate L.H. | 88 | 749-0278 | Grass Catcher Upper Frame |
| 42 | 710-0209 | Hex Sems Bolt 3/8-16 x .62" Lg.* | 89 | 09966 | Handle Knob |
| 43 | 10937 | Pivot Bar | 90 | 749-0377 | Upper Handle |
| 44 | 736-0105 | Bell-Wash. .400 I.D. x .88 O.D. x .060 | | | |

(462—Red Flake)

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—14005 (462).)

Model 303



Model 303

PARTS LIST FOR MODEL 303 ROTARY MOWER

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|----------|----------|--|----------|----------|---|
| 1 | 715-0105 | Spring Pin Roll 3/16" Dia. x 1.50" | 33 | 748-0187 | Ratchet |
| 2 | 710-0642 | Hex Wash. S. Tap Scr. 1/4-20 x .75" | 34 | 741-0262 | Fortiflex Bearing |
| 3 | 738-0255 | Shld. Bolt .375 Dia. x .171 | 35 | 734-0880 | Wheel Ass'y. Comp.—Rear |
| 4 | 710-0599 | Hex Wash. S Tap Scr. 1/4-20 x .50" | 36 | 12894 | Cable Clip |
| 5 | 746-0311 | Clutch Cable | 37 | 736-0119 | L-Wash. 5/16" Scr.* |
| 6 | 12309 | Belt Cover | 38 | 736-0219 | Bell-Wash. .400 I.D. x 1.13 O.D. x .040 |
| 7 | 736-0329 | L-Wash. 1/4" Scr.* | 39 | 712-0267 | Hex Nut 5/16-18 Thd.* |
| 8 | 712-0298 | Hex Jam Nut 1/4-20 Thd. | 40 | 750-0387 | Spacer .505 I.D. x .88 O.D. x .440 |
| 9 | 13415 | Idler Brkt. Ass'y. | 41 | 715-0247 | Spring Pin Roll 3/16" Dia. x 1.00" Lg. |
| 10 | 712-0287 | Hex Nut 1/4-20 Thd.* | 42 | 741-0248 | Flange Brg. .506 I.D. Plastic |
| 11 | 736-0329 | L-Wash. 1/4" Scr.* | 43 | 756-0191 | Pulley w/9 Tooth Sprocket Ass'y. |
| 13 | 10642 | Index Plate Ass'y.—R.H. | 44 | 756-0360 | Plastic Flat Idler |
| | 10641 | Index Plate Ass'y.—L.H. | 45 | 754-0935 | V-Belt 1/2-31" Lg. |
| 14 | 11866 | Rear Shaft 21.25" Ass'y. w/Sprocket | 46 | 736-0119 | L-Wash. 5/16" Scr.* |
| 15 | 1540-086 | Fl-Wash. .510 I.D. x 1.00 O.D. x .125 | 47 | 712-0267 | Hex Nut 5/16-18 Thd.* |
| 16 | 750-0190 | Spacer .70 I.D. x .88 O.D. x 1.00" | 48 | 738-0140 | Shld. Bolt .437 Dia. x .180 |
| 17 | 10530 | Spring Lever Ass'y. w/Knob | 49 | 756-0115 | Engine Pulley |
| 18 | 736-0105 | Bell-Wash. .400 I.D. x .88 O.D. | 50 | 736-0160 | Fl-Wash. .531 I.D. x .930 O.D. x .050 |
| 19 | 712-0798 | Hex Nut 3/8-16 Thd.* | 51 | 714-0115 | Cotter Pin 1/8" Dia. x 1.00" Lg.* |
| 20 | 1540-086 | Fl-Wash. .510 I.D. x 1.00 O.D. x .125 | 52 | 738-0385 | Pulley Shaft |
| 22 | 748-0142 | Flange Brg. .503 I.D. | 53 | 714-0115 | Cotter Pin 1/8" Dia. x 1.00" Lg.* |
| 23 | 10638 | Pivot Brkt. Ass'y.—L.H. | 54 | 736-0160 | Fl-Wash. .531 I.D. x .930 O.D. x .050 |
| 24 | 712-0342 | Hex Jam Nut 3/8-16 Thd. | 55 | 741-0248 | Flange Brg. .501 I.D. Plastic |
| 25 | 736-0105 | Bell-Wash. .400 I.D. x .88 O.D. x .060 | 56 | 713-0144 | #48 Chain 1/2 Pitch x 31 Links |
| 26 | 738-0137 | Shld. Bolt .342 Dia. x .268 | | 713-0122 | Master Link |
| 27 | 748-0188 | Pawl | 57 | 732-0357 | Extension Spring .33 O.D. x 1.12 Lg. |
| 28 | 10647 | Hub Cap—Rear | 58 | 710-0599 | Hex Wash. S Tap Scr. 1/4-20 x .50 Lg. |
| 29 | 712-0219 | Elastic Stop Nut 1/4-20 Thd. | 59 | 736-0160 | Fl-Wash. .531 I.D. x .930 O.D. x .050 |
| 30 | 710-0227 | Hex Wash. Hd. AB-Tap Scr. #8 x .50 Lg. | 60 | 714-0111 | Cotter Pin 3/32" Dia. x 1.00" Lg. |
| 31 | 10622 | Spring Nylon | | | |
| 32 | 714-0115 | Cotter Pin 1/8" Dia. x 1.00" Lg.* | | | |

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—14005 (462).)



NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the mower manufacturer... If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

**Find It Fast
In The
Yellow Pages**



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

| | |
|--------------------------------------|---|
| ALABAMA | BIRMINGHAM |
| Auto Electric & Carburetor Co. | 2625 4th Ave. S. 35233 |
| ARKANSAS | FORT SMITH |
| Mity Mite Motors, Inc. | 4515 S. 16th St. 72901 |
| | NORTH LITTLE ROCK |
| Sutton's Lawn Mower Shop | Rt. 4, Box 368 72117 |
| CALIFORNIA | PORTERVILLE |
| Billious | 75 North D Street 93257 |
| COLORADO | DENVER |
| Spitzer Industrial Products Co. | 6601 N. Washington St., Box 29114 80229 |
| FLORIDA | JACKSONVILLE |
| Radco Distributors | 4909 Victor St., Box 5459 32207 |
| | OPA LOCKA |
| Small Eng. Dist. | 2351 N.W. 147th St. 33054 |
| GEORGIA | EAST POINT |
| East Point Cycle & Key | 2834 Church St. 30344 |
| ILLINOIS | LYONS |
| Keen Edge Co. | 8615 Ogden Ave. 60534 |
| INDIANA | ELKHART |
| Parts & Sales Inc. | 2101 Industrial Pkwy. 46514 |
| IOWA | DUBUQUE |
| Power Lawn & Garden Equip. | 2551 J.F. Kennedy 52001 |
| LOUISIANA | NEW ORLEANS |
| Suhren Engine Co. | 8330 Earhart Blvd. 70118 |
| MARYLAND | TAKOMA PARK |
| Center Supply Co. | 6867 New Hampshire Ave. 20012 |
| MASSACHUSETTS | SPRINGFIELD |
| Morton B. Collins Co. | 300 Birnie Ave. 01107 |
| MICHIGAN | LANSING |
| Lorenz Service Co. | 2500 S. Pennsylvania 48910 |
| | MOUNT CLEMENS |
| Power Equipment Dist. | 340 Hubbard 48043 |
| MINNESOTA | HOPKINS |
| Hance Distributing Inc. | 420 Excelsior Ave. W. 55343 |
| MISSISSIPPI | BILOXI |
| Biloxi Sales & Service, Inc. | 506 Caillavet St. 39533 |
| MISSOURI | KANSAS CITY |
| Automotive Equip. Service | 3117 Holmes St. 64109 |
| | ST. JOSEPH |
| Ross-Frazier Supply Co. | 8th and Monterey 64503 |
| | ST. LOUIS |
| Henzler, Inc. | 2015 Lemay Ferry Rd. 63125 |
| NEW JERSEY | BELLMAWR |
| Lawnmower Parts Inc. | 717 Creek Rd. 08030 |
| NEW MEXICO | ALBUQUERQUE |
| Spitzer Eng. & Parts | 1023 Third St. N.W. 87103 |
| NEW YORK | CARTHAGE |
| Gamble Dist., Inc. | West End Ave. 13619 |

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

| | |
|-------------------------------------|--|
| NORTH CAROLINA | GOLDSBORO |
| Smith Hardware Co. | 515 N. George St. 27530 |
| | GREENSBORO |
| Dixie Sales Company | 335 N. Green 27402 |
| OHIO | CARROLL |
| Stebes Mid-State Mower Supply | 71 High St., Box 366 43112 |
| | CLEVELAND |
| Bleckrie, Inc. | 7900 Lorain Ave. 44102 |
| | WADSWORTH |
| National Central | 687 Seville Rd. 44281 |
| | YOUNGSTOWN |
| Burton Supply Co. | 1301 Logan Ave., Box 929 44501 |
| OKLAHOMA | MUSKOGEE |
| Victory Motors, Inc. | 605 S. Cherokee 74401 |
| OREGON | PORTLAND |
| Kenton Supply Co. | 8216 N. Denver Ave. 97217 |
| PENNSYLVANIA | HARRISBURG |
| EECO Inc. | 4021 N. 6th St. 17110 |
| | PHILADELPHIA |
| Thompson Rubber Co. | 5222-24 N. Fifth St. 19120 |
| | PITTSBURGH |
| Bluemont Co. | 11125 Frankstown Rd. 15235 |
| | PUNXSUTAWNEY |
| Frank Roberts & Sons | R.D. 2 15767 |
| TENNESSEE | KNOXVILLE |
| Master Repair Service | 2000 Western Ave. 37921 |
| | MEMPHIS |
| American Sales & Service, Inc. | 3035-43 Bellbrook 381 |
| TEXAS | DALLAS |
| Marr Brothers, Inc. | 423 E. Jefferson 75203 |
| | FORT WORTH |
| Woodson Sales Corp. | 1702 N. Sylvania 76111 |
| | HOUSTON |
| Bullard Supply Co. | 2409 Commerce St. 77003 |
| UTAH | SALT LAKE CITY |
| A-1 Engine & Mower Co. | 437 E. 9th St. 84111 |
| VERMONT | BURLINGTON |
| Vermont Hdwe. Co. Inc. | 180 Flynn Ave. 05401 |
| VIRGINIA | ASHLAND |
| RBI Corp. | Lake Ridge Park, 101 Cedar Run Dr. 23005 |
| | SEATTLE |
| Washington | Bailey's Inc. 1414 14th Ave. 98102 |
| WEST VIRGINIA | CHARLESTON |
| Young's, Inc. | 233 Virginia St., E. 25301 |
| WISCONSIN | MARSHFIELD |
| Power Pac | 301 E. 29th St. 54449 |

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. Replacement of Missing Parts on new equipment.
2. Replacement of Defective Parts within the warranty period.
3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.