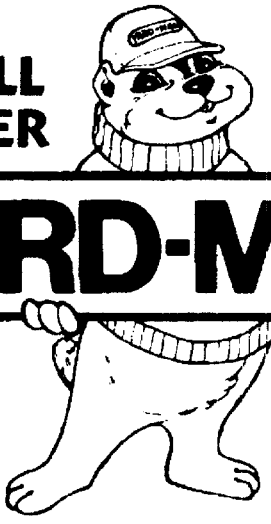
YOU'LL GO-FER

YARD-MAN™



Thank you for purchasing an American-built product.

Owner's Manual

ASSEMBLY
OPERATION
MAINTENANCE
PARTS LIST

Important:

Read Safety Rules and Instructions Carefully

21" SIDE AND TOP DISCHARGE ROTARY MOWERS

Model Numbers
12213C
12214C

PRINTED IN U.S.A.

FORM NO. 770-5458A

INDEX

Instructions given with this symbol are for personal safety. Be sure to follow them.

LIMITED WARRANTY

For two years from the date of original retail purchase, YARD-MAN COMPANY 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 YARD-MAN COMPANY.

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, Peerless components, the motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

Warranty on units used commercially is limited to sixty (60) days.

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 YARD-MAN.

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

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

WARNING

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

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. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular 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. 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.
4. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
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, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

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 serious personal injury to the operator or any others allowed in the area.
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. Replace gasoline cap securely and 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. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Mow only in daylight or in good artificial light.
9. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold or the handle and walk, never run.
10. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.

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. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. 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.
7. Before 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 spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Always disconnect electric mowers (line operated) before cleaning, repairing or adjusting
11. Never operate mower without proper guards, plates or other safety protective devices in place.
12. **DO NOT OPERATE** top discharge mowers with the chute door 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.

NOTE

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

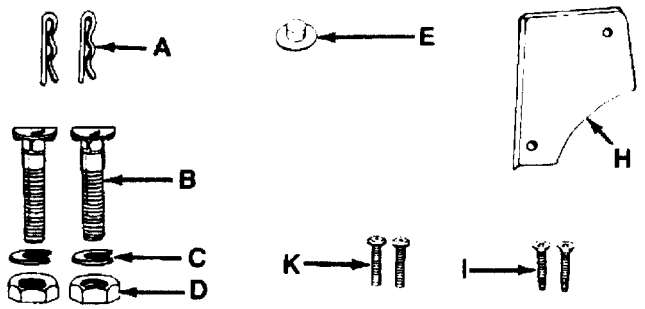


FIGURE 1.

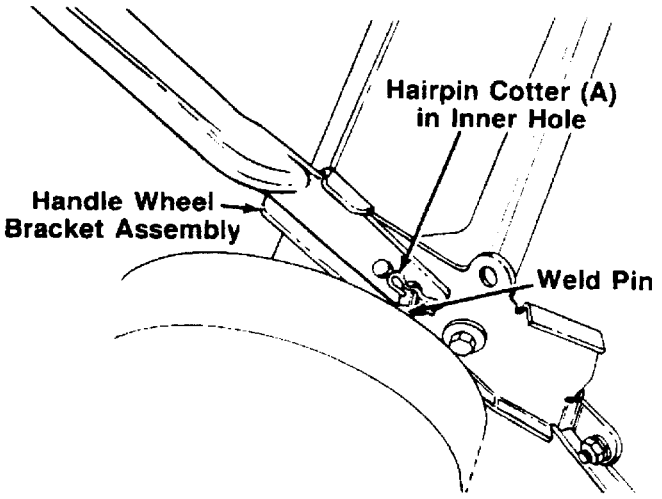


FIGURE 2.

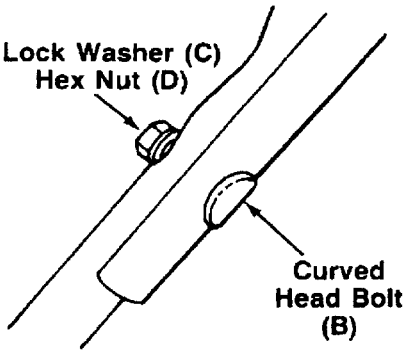


FIGURE 3.

ASSEMBLY INSTRUCTIONS

NOTE

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

Contents of Hardware Pack: (See Figure 1)

A (2) Hairpin Cotters
B (2) Curved Head Carriage Bolts
C (2) Lock Washers 5/16" I.D.
D (2) Hex Nuts 5/16-18 Thread
E (1) Push Cap
F (2) Cable Ties (Not Shown)
G (1) Cable Clamp (Model 214 Only—Not Shown)
H (1) Plastic Cap
I (2) Countersunk Self-Tapping Screws
J (1) Upper Bag Support (Not Shown)
K (2) Truss Machine Self-Tapping Screws
L (1) Plastic Tubing (Not Shown)
M (2) Hub Caps (Not Shown)

Loose Parts in Carton:

(1) Lower Handle
(1) Upper Handle
(1) Side Chute Deflector
(1) Grass Catcher Handle
(1) Front Catcher Frame
(1) Grass Catcher Bag

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 all control cables and place on the floor. Be careful not to bend or kink control cables.
3. For shipping purposes your mower is set with the wheels in the lowest cutting height position. Raise the mower to the highest setting for assembly of lower handle.
4. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle wheel bracket assemblies. Make certain the instruction label on the lower handle can be read from the operating position. Secure with hairpin cotters (A) in inner holes on weld pins. See figure 2.

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.

5. Place the upper handle in position over the lower handle. The control housing must be on the left hand side of the handle. Secure the handles using the curved head bolt (B), lock washer (C) and hex nut (D) as shown in figure 3.

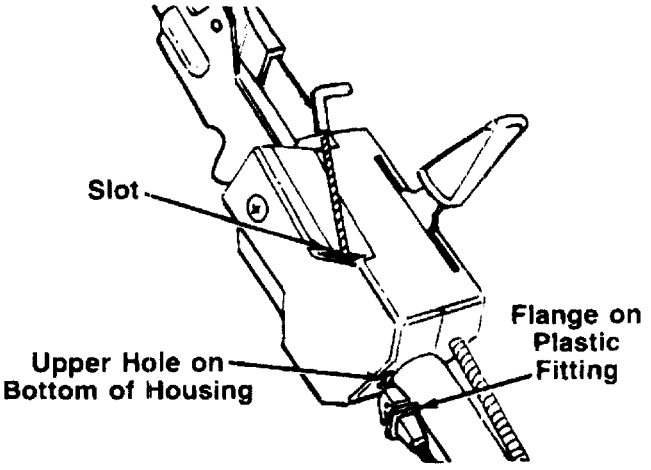


FIGURE 4.

6. The blade brake/clutch cable is attached to the blade brake/clutch beneath the deck.

   Route the blade brake/clutch cable inside the handle mount bracket and under the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot on the side of the housing as shown. The angle of the flange on the plastic fitting must be positioned downward as shown in figure 4. Be careful not to bend or kink the cable.

7. Snap the plastic fitting on the end of the cable into the control housing.

WARNING

The cable must be assembled as shown for proper blade brake/clutch operation.

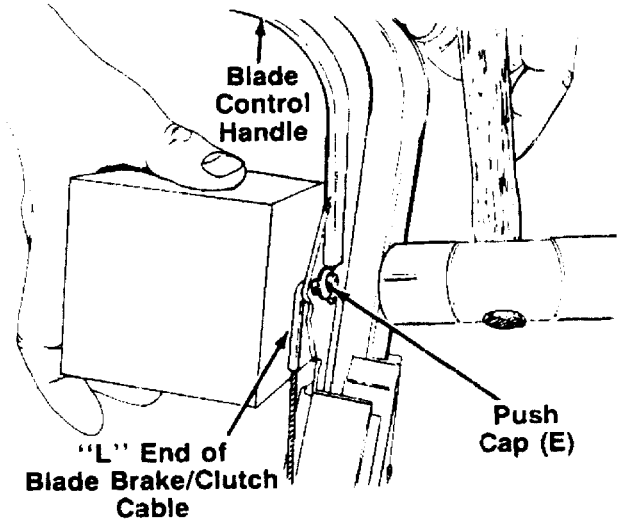


FIGURE 5.

8. Insert the "L" end of the blade/brake clutch cable into the hole in the blade brake/clutch control handle. Press push cap (E) onto the end of the cable by hand. Then tap push cap on securely, using a hammer and a block of wood as shown in figure 5.

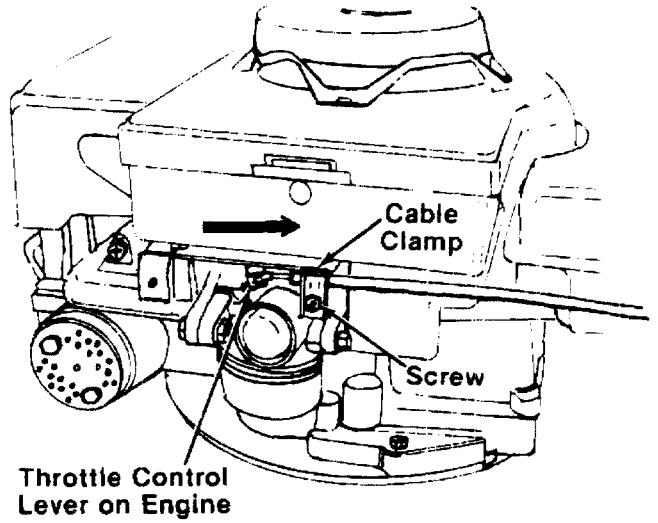


FIGURE 6.—Tecumseh Engine

Steps 9 thru 13 for the Model 213 only (Tecumseh engine). For Model 214 (Briggs and Stratton engine), follow steps 9A through 13A.

Tecumseh Engine:

9. Place the throttle control lever on the handle in FAST position.
10. Route the throttle control cable (attached to the upper handle) under the lower handle, inside of handle bracket assembly and through the catcher panel opening (next to brake cable).
11. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine. See figure 6.
12. Loosen (do not remove) the screw on the cable clamp shown in figure 6. Slip the control casing under the clamp. Do not tighten at this time (cable must move freely beneath the clamp).
13. Push the throttle control lever on the engine to the full open position (as far toward the **rear** of the mower as it will go) as shown in figure 6. Tighten the screw to secure the throttle control cable in this position.

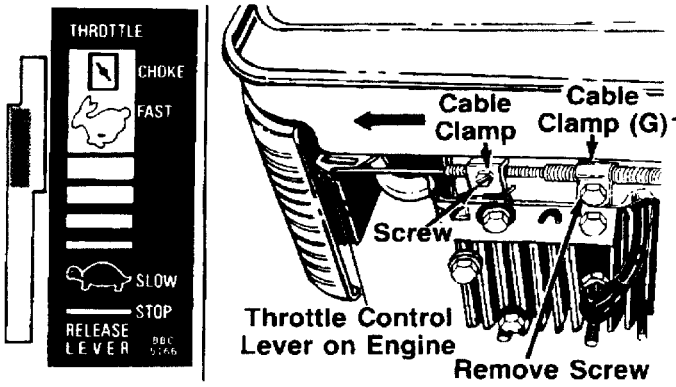


FIGURE 6A.—Briggs and Stratton Engine

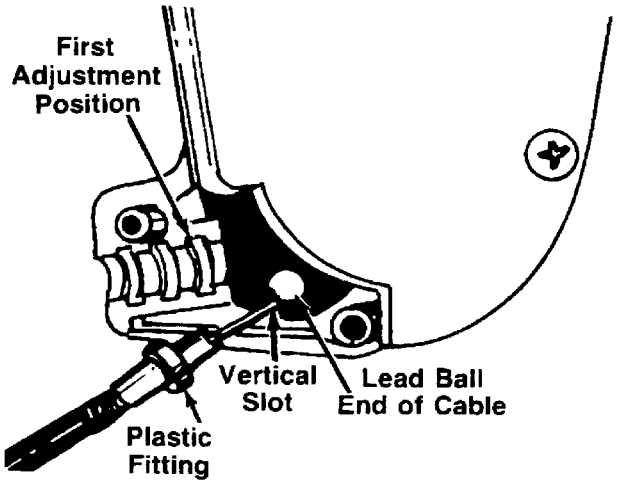


FIGURE 7.

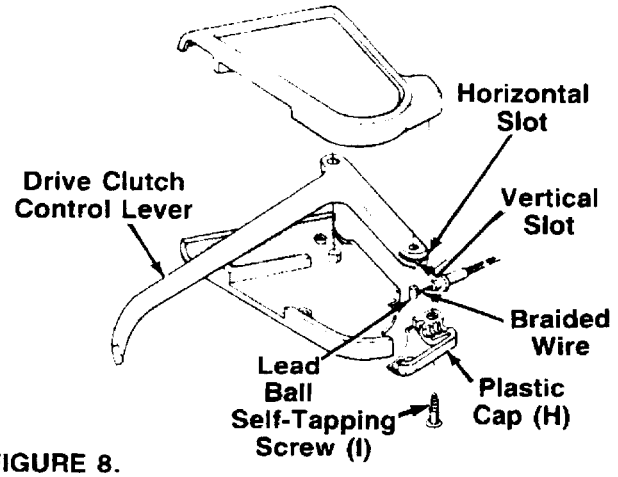


FIGURE 8.

Briggs and Stratton Engine:

9A. Move throttle control lever on handle forward until it stops in FAST position. (**Do not** push all the way forward to CHOKE position.) See figure 6A.

10A. Route the throttle control cable (attached to the upper handle) under the lower handle, inside of handle bracket assembly and through the catcher panel opening (next to blade brake/clutch cable). Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.

11A. Using a 7/16" wrench, remove the screw on the engine shown in figure 6A.
Remove the screw on the cable clamp shown in figure 6A. Slip the control casing under the clamp. Replace the screw, but do not tighten (cable must still move freely beneath the clamp).

12A. Slide the throttle control lever on the engine as far toward the **outside** of the engine as it will go **easily** (just until resistance is felt) as shown in figure 6A. (**Do not** force it into the extreme outside position, which is the CHOKE position). Tighten the screw to secure the throttle control cable in this position.

13A. Loosen the screw on the clamp on the side of the engine. Slip the cable casing under the clamp to secure the cable **away from the muffler.** Be careful not to bend or kink the cable. Tighten the screw.
Secure cable casing to the front of engine with cable clamp (G) provided in hardware pack and screw removed from engine in step 11A. Do not overtighten.

14. The drive clutch control cable is attached to the deck. Attach the cable to the lever in the clutch control housing, located in the middle of the upper handle, as follows.

a. Place the lead ball end of the cable into the fitting provided in the end of the clutch control lever. Slip the braided wire into the vertical slot as shown in figure 7.

b. Slide the braided wire around in the horizontal slot. See figure 8.

c. Place the plastic fitting on the control cable into the first adjustment position in the clutch control housing. See figure 7.

d. Secure the plastic cap (H) to the clutch control housing using the two countersunk self-tapping screws (I). See figure 8.

WARNING

Drive clutch adjustment must be checked before the unit is operated, as described in the operation section.

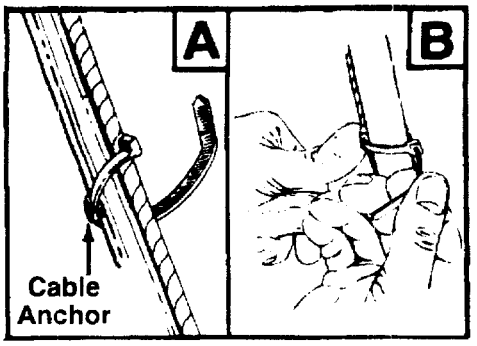


FIGURE 9.

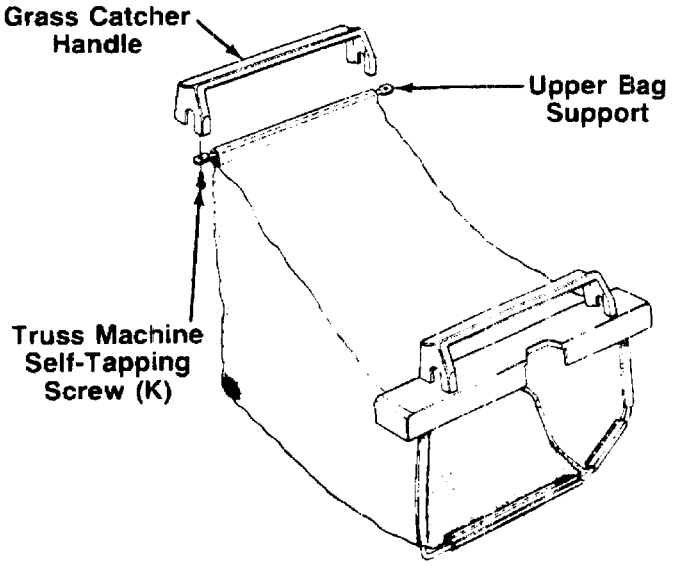


FIGURE 10.

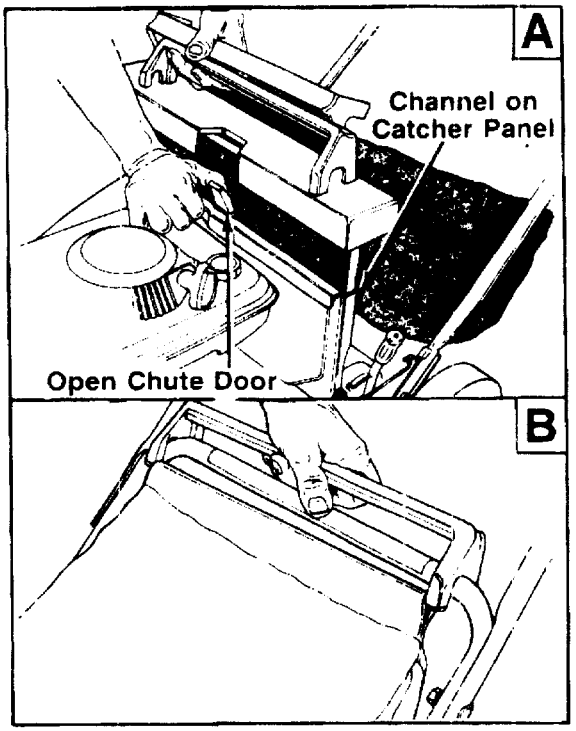


FIGURE 11.

15. Secure all cables to the left side of the handle as follows.
    a. Open one end of the plastic tubing provided. Place the control cables inside, starting at one end and working them inside the tubing.
    b. Insert cable anchors on cable ties (F) into holes provided on the inside of the lower handle, one near the top and one near the bottom of lower handle. See figure 9A.
    c. Secure the plastic tubing to the handle with the cable ties. See figure 9B.
    d. Cut off excess ends of cable ties.
16. Attach hub caps to the front wheels by lining up cap with hub of wheel. Push to snap in place.
17. Make certain **all** nuts and bolts are tightened securely.

GRASS CATCHER ASSEMBLY

1. Place bag over frame (black plastic side is the bottom of bag). Handle on frame goes to the top of bag. Cutout in handle goes toward the front as shown in figure 10.
2. Secure bag to frame by slipping plastic channels on bag over frame. See figure 10.
3. Insert the upper bag support into the pocket on the rear of the bag. Place grass catcher handle on top of grass catcher support as shown in figure 10. The handle should hook toward the rear of the bag as shown in figure 10. Secure with two truss machine self-tapping screws (K).

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. Hold the chute door on the catcher panel open as shown in figure 11A.
2. Slide the frame of the grass catcher down into the channels on the catcher panel. The front of frame goes over the catcher panel.
3. Hook the handle on the rear of the grass catcher over the lower handle of the mower. See figure 11B.

To remove the grass catcher, unhook the rear handle and lift the grass catcher straight up.

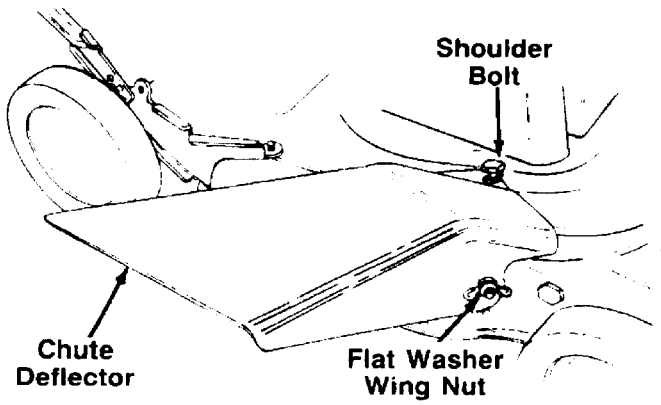


FIGURE 12.

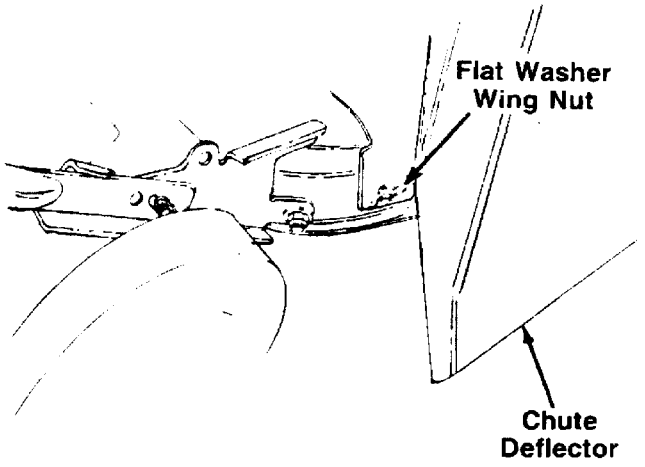


FIGURE 13.

TO CONVERT MOWER TO SIDE DISCHARGE

To convert your mower to a side discharge unit, remove only the grass bag and top discharge chute, and assemble the side chute deflector. It is not necessary to remove the catcher panel and brackets. To remove the top discharge chute, proceed as follows. See figures 12 and 13.

1. Remove the two wing nuts and flat washers which secure the top discharge chute to the side of the deck.
2. Lift up on the front edge of the discharge chute, then slide it toward the side, removing it from the bolts in the side of the deck.

3. Attach the side chute deflector by first placing it over the rear bolt in the side of the deck, then over the front bolt and sliding it into position. Secure with the hardware removed in step one.

WARNING

Never operate your unit without either the side chute deflector or entire top discharge chute and catcher panel assembly in place.

CONTROLS

THROTTLE CONTROL

The throttle is located on the left side of handle. It controls engine speed. See figure 14.

BLADE BRAKE/CLUTCH CONTROL

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade brake/clutch control is located on the upper handle of the mower. The blade brake/clutch handle engages and disengages the blade.

To engage the blade, pull the side release lever away from the unit. See figure 14. Pull the blade brake/clutch control handle against the upper handle. Release side lever.

Release the blade brake/clutch control handle to stop the blade from turning.

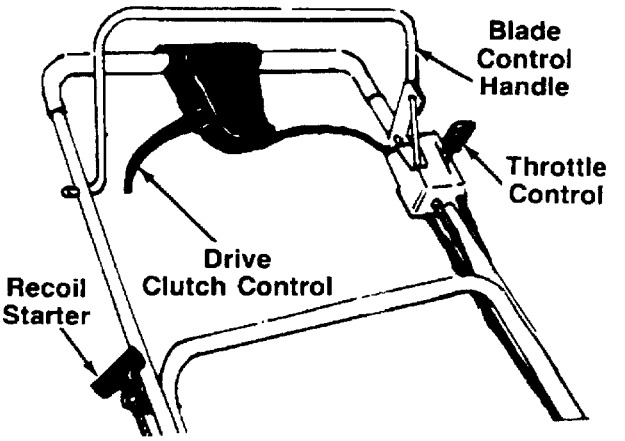


FIGURE 14.

DRIVE CLUTCH CONTROL

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

OPERATION

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 cutting height adjustment.

BEFORE STARTING

1. Fill sump with oil, as instructed in the separate engine manual packed with your unit.
2. Fill fuel tank, using clean, fresh, lead-free, low-lead or regular grade leaded gasoline. Fill tank completely! DO NOT MIX OIL WITH GASOLINE.
3. Attach spark plug wire to spark plug.
4. **Model 214 Only**—The fuel shut-off valve is located beneath the fuel tank. An access hole is provided in the catcher panel. The fuel shut-off valve should be in the open position. See figure 16. Open fuel shut-off valve using a wrench if it is closed. See figure 17.

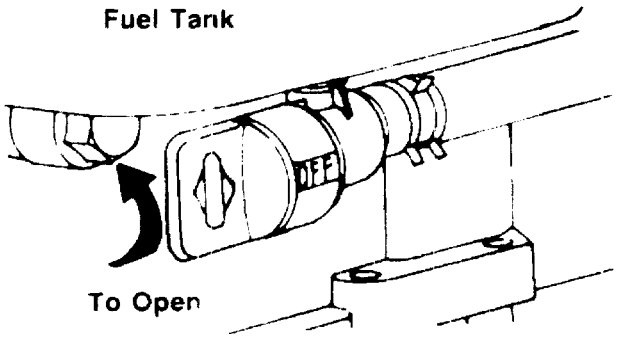


FIGURE 16.—Model 214 Only

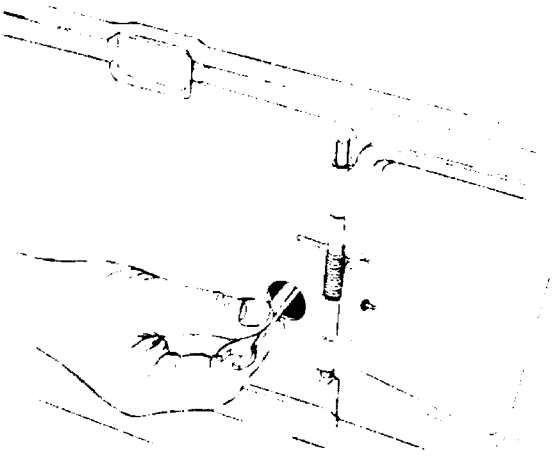


FIGURE 17.—Model 214 Only

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

   With the drive 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 start the engine until corrections have been made. Check the control cable for severe bend, kinks and binding, or grass buildup in the pulley groove. Correct and adjust as required

START ENGINE

WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Check the position of the drive clutch control cable. The plastic fitting must be assembled in the first adjustment position inside the housing, all the way to the right, as shown in figure 7.

1. Move throttle control lever to FAST or START position.

NOTE

On Model 214, move throttle control lever to CHOKE position. (A warm engine may not require choking.)

2. **Model 213:** Prime engine as instructed in separate engine manual.
3. With the blade brake/clutch handle **released,** crank engine by pulling recoil starter with a quick firm pull. Do not pull out so far that rope stops with a jerk as this will cause rope failure. Do not allow rope and handle to snap back into place.
4. After two or three full firm pulls on recoil, or as soon as engine starts, move throttle control to desired engine speed.

WARNING

Never operate your unit without either the side chute deflector or entire top discharge chute and catcher panel assembly in place.

TO STOP ENGINE

1. Move throttle control lever to STOP position.
2. Disconnect spark plug wire from spark plug and ground against the engine to prevent accidental starting while equipment is unattended.

TO ENGAGE THE BLADE

1. Start engine as instructed above. Allow the engine to warm up for **one minute** before attempting to engage the blade.
2. To engage the blade, pull the side release lever away from the unit. Pull the blade brake/clutch control handle down against the upper handle. Release the side lever. See figure 14.

NOTE

If a warm engine falters or stalls when attempting to engage the blade, refer to Carburetor Adjustment Section of this owner's manual.

3. Release the blade brake/clutch control handle to stop the blade from turning.

NOTE

Always release the blade brake/clutch control handle before stopping the engine. If the engine begins to stall, release the blade brake/clutch control handle immediately.

Should the engine stall with the blade brake/clutch control in the operating position (control handle **not** released), difficulty may be encountered in pulling the starter rope to restart the engine. Proceed as follows.

1. Disconnect the spark plug wire from the spark plug.
2. Move the throttle lever to STOP position.
3. Hold the blade brake/clutch control in the engaged position.
4. While holding the blade brake/clutch control handle in this position, pull the starter rope.
5. As the starter rope is being pulled, release the blade brake/clutch control handle.

The starter rope should now operate correctly. Reconnect the spark plug wire for normal operation.

USING YOUR ROTARY MOWER

WARNING

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

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For the best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

When using the side discharge mower, the best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

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.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

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.

Striking a solid object can cause damage to the blade brake/clutch or to the engine crankshaft Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS

WARNING

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

DRIVE CLUTCH CONTROL ADJUSTMENT

If the unit does not self-propel with the drive clutch control engaged, remove the plastic cap from beneath the drive clutch control housing. Move the plastic fitting on the control cable to the next adjustment position on the left. Reassemble the plastic cap and retest. See figure 18.

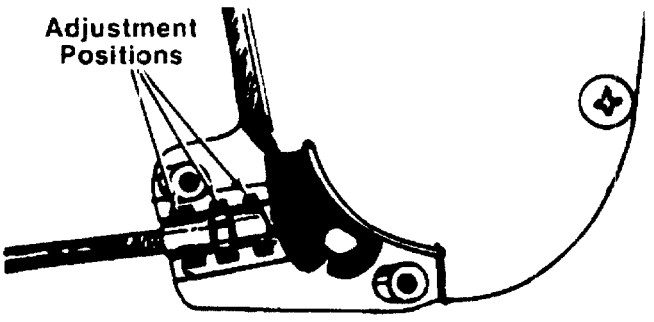


FIGURE 18.

CUTTING HEIGHT ADJUSTMENT

The height adjustment handle is located on the left side of the deck. The handle may be placed in one of nine cutting height positions. Push the handle to the left and then either forward to lower the cutting height or backward to raise the cutting height. See figure 19.

For rough or uneven lawns, move the height adjustment handle to a position which will give a higher cutting height.

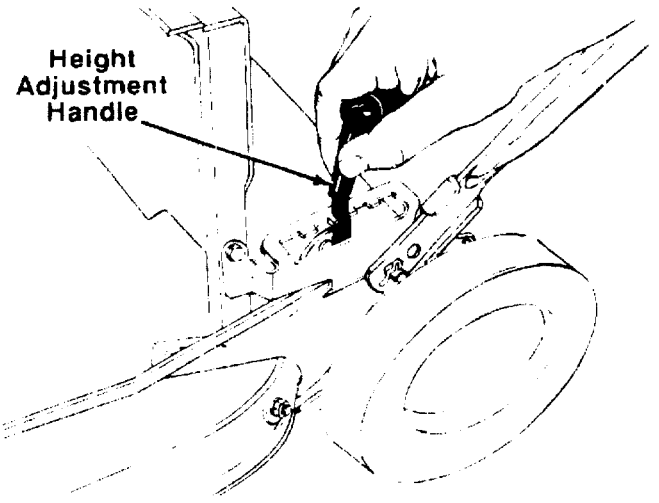


FIGURE 19.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Refer to steps 9 thru 13 of assembly instructions.

CARBURETOR ADJUSTMENTS

WARNING

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 adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower.

NOTE

If a warm engine falters or stalls when attempting to engage the blade, the carburetor mixture should be adjusted 1/8 turn richer (counterclockwise). See figure 20.

The carburetor should be adjusted with the air cleaner in place and the blade control handle in the blade disengaged position.

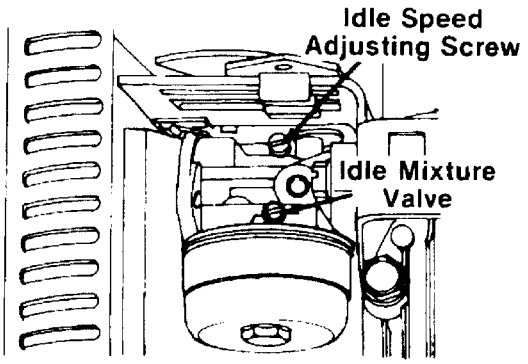


FIGURE 20.—Briggs and Stratton Engine Shown

LUBRICATION

WARNING

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

Blade Brake/Clutch—Lubricate the pivot points on the blade brake/clutch handle and the cable at least once a season with light oil. The control must operate freely in both directions.

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.

Wheels—Mower is provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, 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.

MAINTENANCE

WARNING

Be sure to disconnect and ground the spark plug wire before performing any repairs or maintenance.

NOTE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

CUTTING BLADE

To remove the cutting blade for sharpening or replacement, remove the two hex nuts and lock washers which hold the blade to the blade brake/clutch. Protect hands by using heavy gloves or a rag to grasp the cutting blade. See figure 21.

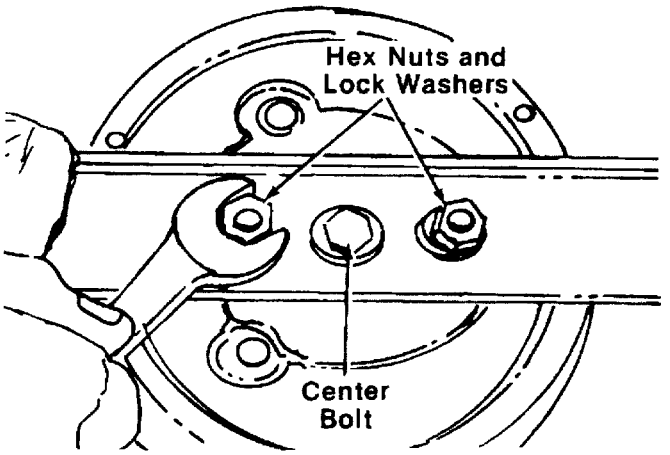


FIGURE 21.

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.

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.

Blade Mounting Torque

Make certain that the center bolt which secures the blade brake/clutch and the two hex nuts which secure the blade are tightened to between 350 inch pounds (minimum) and 600 inch pounds (maximum).

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.

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.

NOTE

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE

Refer to separate engine manual packed with your unit for all engine maintenance procedures.

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 mower.

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 specifications.

BELT REMOVAL AND REPLACEMENT

1. Disconnect the spark plug wire and ground it.
2. Remove the grass bag, discharge chute and catcher panel. Refer to Assembly Instructions.
3. Remove the three screws which hold the belt guard (and idler assembly). See figure 22.

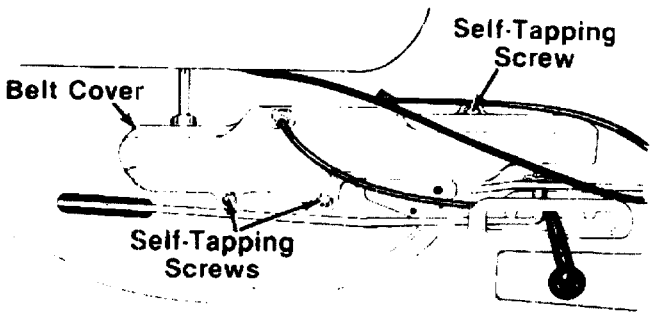


FIGURE 22.

4. Remove the belt from the pulley and the engine pulley. See figure 23.

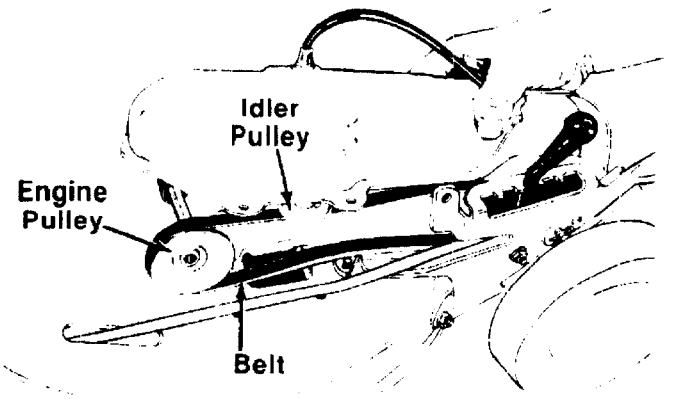


FIGURE 23.

5. Reassemble using the new belt, making certain the idler pulley is under the belt. See figure 24.

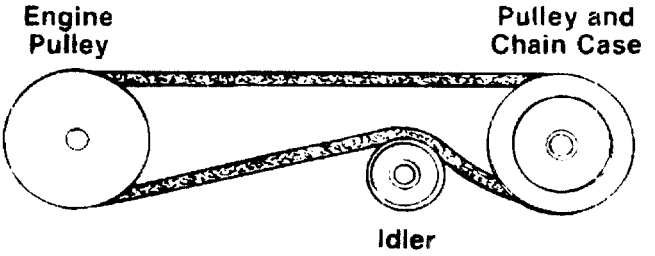


FIGURE 24.

BLADE BRAKE/CLUTCH

This unit is equipped with a blade brake/clutch. If for some reason the blade brake/clutch becomes inoperative, it is suggested that all repair work on the blade brake/clutch should be performed by an authorized service dealer. The unit should be inspected by an authorized service dealer if any of the following conditions are noticed.

1. Frayed clutch control cable.
2. Leaking oil seal (oil collection on the floor during mower storage).
3. Extensive vibration of the unit.

Blade Brake/Clutch Removal

1. Disconnect the spark plug wire and ground it against the engine block.
2. Empty fuel tank and drain oil from crankcase.
3. Remove the cable ties which secure control cables to the handle.
4. Disconnect the blade brake/clutch cable from the clutch control handle by removing the push cap, using a pair of pliers.

NOTE

A new push cap is needed for re-assembly.

5. Remove two truss machine screws on the inside of the control housing as shown in figure 25.
6. Loosen the truss machine screw on the outside of the control housing until the two halves of control housing can be separated enough for the control cable to be freed. Slide the blade brake/clutch cable out of the control housing.
7. Retighten the truss machine screws on the control housing.

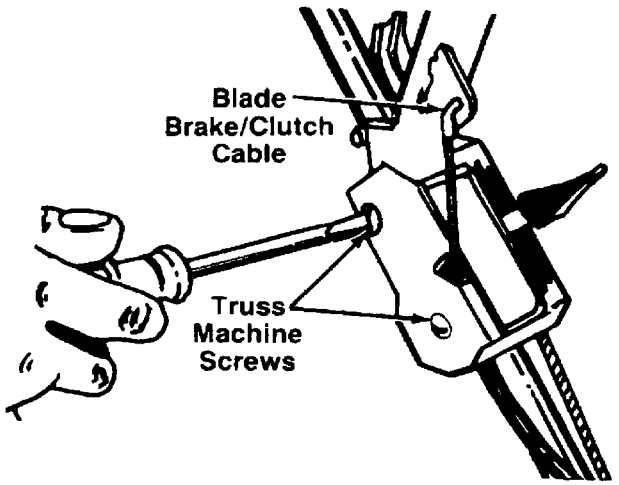


FIGURE 25.

8. Disconnect the throttle control cable from the engine by loosening screw on engine and disconnecting the "Z" fitting. Refer to figure 6.
9. Tip the mower on its side. Remove the blade by removing two hex nuts and lock washers. Refer to figure 21.

NOTE

When reassembling, tighten hex nuts to between 350 and 600 in. lbs.

10. Remove the center bolt as follows.
    a. Insert a screwdriver into the slot provided in the blade brake/clutch housing where the control cable enters housing. See figure 26.
    b. Place a 9/16" wrench on the center bolt. Turn the wrench slowly until the screwdriver catches in a groove provided inside the clutch. The screwdriver will now keep the clutch from turning, and the center bolt and two belleville washers may be removed.

IMPORTANT

Upon reassembly, be certain to tighten center bolt to between 350 and 600 in. lbs.

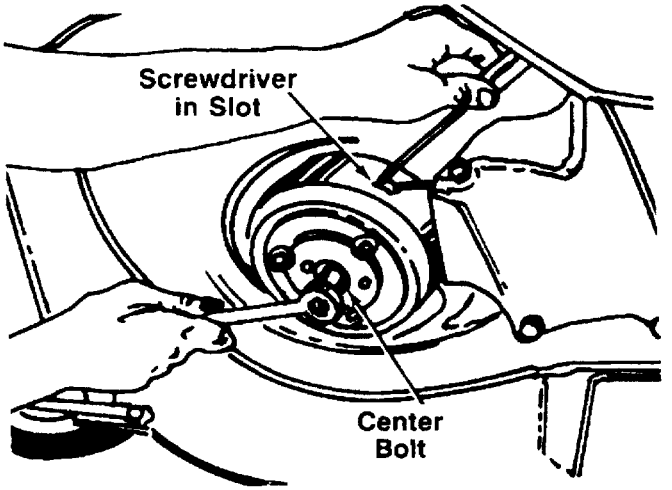


FIGURE 26.

11. Support the engine with one hand. Remove the three self-tapping screws which secure the deck and blade brake/clutch to the engine. A ½" socket wrench is required. See figure 27.

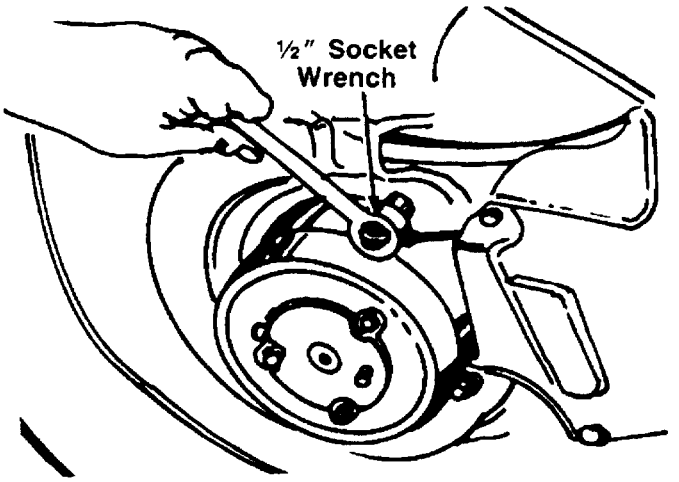


FIGURE 27.

12. Slide the blade brake/clutch cable through the hole in the deck as you lift off the engine and blade brake/clutch. Be careful not to kink control cable.
13. Remove blade brake/clutch from engine crankshaft.

Blade Brake/Clutch Installation

1. Place the new blade brake/clutch on engine crankshaft. Line up holes on blade brake/clutch with mounting holes on engine.
2. Place the two belleville washers onto crankshaft. Cupped side of washers must be against the blade brake/clutch. Secure with hex bolt finger tight only.
3. Place cable through engine mounting hole on deck.
4. Reverse steps 1 through 12 of preceding section for reassembly.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Store mower in a dry, clean area.

NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially the bearings and cables.

NOTE

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

WARNING

1. DO NOT operate the mower with the chute door open unless the complete grass catcher is properly mounted on the mower.
2. DO NOT operate the mower without the protective shield on the rear of the deck 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. 764-0215.

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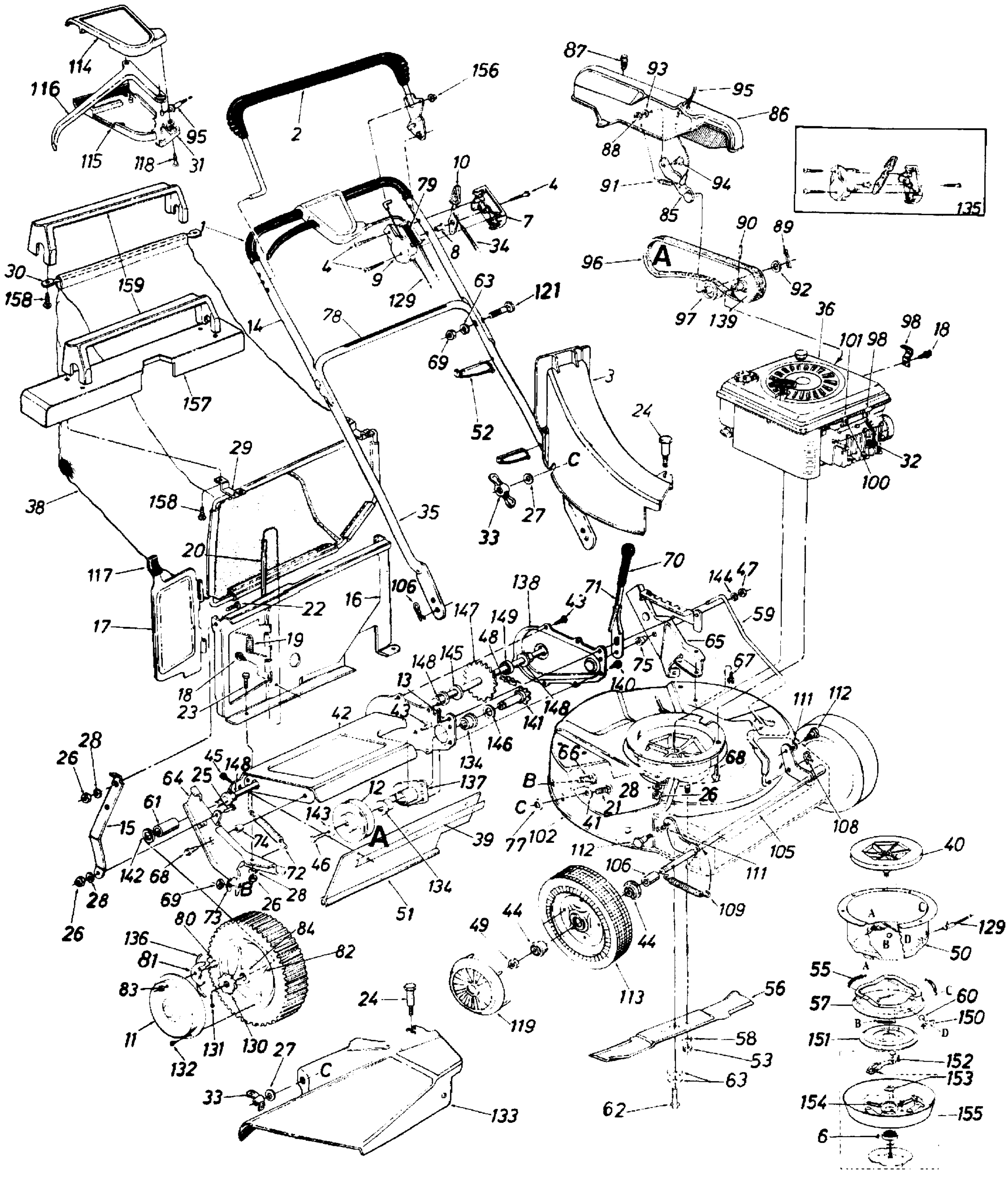

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PARTS LIST FOR MODELS 12213 AND 12214
ROTARY MOWERS

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	718-0145		Grip	
2	731-0609		Control Handle Ass'y.—L.H	
3	731-0733		Top Discharge Chute Ass'y	
4	710-0796		Truss Mach. Scr. #12 x 1.50" Lg.	
6	741-0124		Ball Brg. .669" I.D. x 1.574"	
7	731-0817		Control Panel Half	N
8	731-0524		Control Disc Pin	
9	731-0816		Clutch Panel Half	N
10	731-0528		Throttle Control Lever	
11	10647		Hub Cap (Rear)	
12	756-0459		½" V-Pulley	
13	714-0507		Cotter Pin 3/32" Dia. x .75" *	
14	749-0436		Upper Handle—Chrome	
15	16541		Panel Support Brkt.	N
16	16140		Top Catcher Panel	
17	16145		Top Door	
18	710-0429		Hex B-Tap Scr. #10 x .38"	
19	732-0483		Torsion Spring	
20	747-0514		Pivot Pin	
21	710-0134		Carriage Bolt ¼-20 x .62" *	
22	710-0166		Truss Mach. Scr. ¼-20 x 1.0" Lg.	
23	710-0289		Hex Bolt ¼-20 x .50" Lg.*	
24	738-0704		Shoulder Bolt .312 Dia. x .18 Lg. Special	N
25	710-0258		Hex Bolt ¼-20 x .62" Lg.*	
26	712-0287		Hex Nut ¼-20 Thd *	
27	736-0463		Fl-Wash. .280" I.D. x .620"	
28	736-0329		L-Wash. ¼" I.D.*	
29	747-0525		Front Grass Catcher Frame	N
30	747-0526			N
31	731-0619		S.P. Control Cover	
32	735-0639		Spark Plug Insulator	
33	712-0109		Wing Nut	
34	746-0420		Throttle Control Wire 45" (213)	
	746-0633		Throttle Control Wire 58" (214)	N
35	749-0505		Lower Handle—Chrome	
36	—		Engine	
37	717-0485		Blade Brake Clutch Comp	
38	764-0215		21" Top Discharge Grass Bag	N
39	14835		Retaining Strip	
40	719-0256		Fan Adapter	
41	736-0204		Fl-Wash. .344" I.D. x .62"	
42	16121		Chain—Axle Ass'y	
43	710-0352		Hex B-Tap Scr. ¼" x .38" Lg.	
44	741-0180		Flange Ball Bearing ½" I.D.	
45	710-0776		Hex AB-Tap Scr. ¼ x 62"	
46	710-0875		Hex Wash. TT-Tap Scr. ¼-20	
47	712-0296		Hex Patch L-Nut 3/8-24 Thd.	
48	713-0353		#48 Chain .500" Pitch x .30 Links	
49	712-0346		Hex L-Nut ½-20 Thd.	
50	14307		Clutch Housing	
51	731-0671		Rear Flap 3.75" x 17.30" Lg.	
52	726-0240		Cable Tie	N
53	712-0328		Hex Nut 3/8-24 Thd. (Grade 8)	
55	732-0397		Extension Spring .35" O.D. x 1.75" Lg.	
56	742-0290		21" Blade	
57	14305		Brake Cup Cone	
58	736-0169		L-Wash. 3/8" I.D.*	
59	747-0496		Height Adj. Rod 19.42" Lg.	
60	741-0326		Steel Ball .500" Dia.	
61	748-0191		Spacer .51" I.D. x .69" O.D. x .69" Lg	
62	710-0818		Hex Cent. L-Bolt 3/8-24 x 2.0" Lg. (Grade 8)	
63	736-0105		Bell-Wash. 3/8" I.D.	
64	16136		R.H. Handle Wheel Brkt. Ass'y.	
65	16137		L.H. Handle Wheel Brkt. Ass'y.	
66	710-0260		Carriage Bolt 5/16-18 x .62" *	
67	710-0603		Hex Wash. Hd. B-Tap Scr. 5/16-18	
68	710-0654		Hex Wash. Hd. TT-Tap Scr. 3/8-16	
69	712-0267		Hex Nut 5/16-18 Thd.*	
70	720-0143		Grip	
71	732-0473		Height Adj. Lever	
72	732-0481		Extension Spring .50" O.D. x 3.80" Lg.	
73	736-0242		Bell-Wash. .345" I.D. x .88"	
74	750-0526		Spacer .385" I.D. x .502" O.D. x .270" Lg.	
75	750-0624		Shld. Spacer .500" Dia. x .100	
77	726-0233		Bolt Retainer ¼ x .50" O.D.	
78	777-5775		Instruction Label	N
79	777-5772		Control Label	N
80	738-0137		Shld. Scr. .342" Dia. x .268	
81	748-0188		Pawl	
82	734-1412		Wheel Ass'y. Comp.—Rear 8 x 1.75	
83	712-0324		Hex Ins. L-Nut ¼-20 Thd.	
84	741-0180		Flange Ball Bearing ½" I.D.	
85	16134		Belt Idler Bracket Ass'y.	
86	16146		Belt Cover	
87	710-0599		Hex Wash. S-Tap Scr. ¼-20 x .50" Lg.	
88	712-0287		Hex Nut ¼-20 Thd.*	
89	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
90	715-0247		Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
91	732-0357		Extension Spring .33" O.D. x 1.12" Lg.	
92	736-0160		Fl-Wash. .531" I.D. x .930" O.D. x .050	
93	736-0329		L-Wash. ¼" I.D.*	

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PARTS LIST FOR MODELS 12213 AND 12214 ROTARY MOWERS (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
94	738-0255		Shld. Bolt .375" Dia. x .181	
95	746-0466		S.P. Cable—53.0" Lg.	
96	754-0104		"V"-Belt ½" x 32.0" Lg.	
97	756-0360		Fl-Idler Plastic 1.62" Dia.	
98	12894		Casing Clamp (214)	
100	710-0436		Hex B-Tap Scr. #10 x .62" (214)	
101	751-0442		Casing Clamp (214)	N
102	16126	621	21" Deck Ass'y.	
105	10662		Front Axle Ass'y.	
106	711-0313		Sleeve .526" I.D. x .690" O.D. x .880" Lg.	
108	714-0104		Intern. Cotter Pin 5/16" Dia.	
109	732-0482		Extension Spring .50" O.D. x 3.20" Lg.	
111	736-0221		Intern. L-Wash. 3/8 I.D.*	
112	738-0615		Shld. Bolt .623" Dia. x .425	
113	734-1264		Front-Wheel Ass'y. Comp. 7 x 1.75	
114	731-0617		Self-Propelled Control Cover	
115	731-0618		Self-Propelled Control Cover	
116	731-0620		Control Lever	
117	720-0208		Door Grip	
118	710-0841		Fl-"C"-Sunk Hd. Tap Scr. #10 x .75" Lg.	
119	731-0571		Hub Cap	
121	710-0671		Curved Carr. Bolt 5/16-18 x 1.38" Lg.	
122	726-0111		Push Cap	
125	720-0190		Spring Lever Knob	
126	732-0401		Lockout Spring	
127	731-0607		Lock Pin .314" Dia. x 1.75"	
129	746-0400A		Blade Brake/Clutch Cable—46" (Incl. Ref. 122)	
130	748-0187		Ratchet Wheel 1.62" O.D.	
131	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
132	710-0748		Pan Hd. Tap Scr. #12 x .50" Lg.	
133	16559	621	Side Chute Deflector Ass'y.	N
134	748-0249		Flange Bushing	
135	753-0361		Kit—Control Housing Comp.	
136	10622		Spring—Nylon	
137	16118		Bearing Hub Flange Ass'y.	
138	16119		Chain Cover	
139	756-0460		Engine Pulley ½"	
140	710-0599		Hex Wash. S-Tap Scr. ¼-20 x .50" Lg.	
141	713-0355		Sprocket—Shaft Ass'y.	
142	736-0160		Fl-Wash. .531" I.D. x .93" O.D.	
143	736-0270		Bell-Wash. .265" I.D. x .75" O.D.	
144	736-0300		Fl-Wash. .385" I.D. x .87" O.D.	
145	736-0326		Fl-Wash. .51" I.D. x 1.0" O.D.	
146	736-0254		Fl-Wash. .62" I.D. x 1.12" O.D.	
147	738-0614		Rear Shaft Ass'y. 22.05" Lg.	
148	741-0324		Hex Flange Bearing .506" I.D. Plastic	
149	748-0301		Spacer .510" I.D. x 1.00" O.D. x .210" Lg.	
150	731-0520		Ball Block	
151	14304		Clutching Cone	
152	710-0875		Hex Tap L-Scr. ¼-20 x .75" Lg.	
153	736-0333		Fl-Wash. .690" I.D. x 1.060" O.D.	
154	732-0396		Compression Spring .35" O.D. x 2.00" Lg.	
155	14300		Clutch Blade Housing Ass'y.	
156	726-0111		Push Cap	
157	731-0807		Catcher Frame Cover	N
158	710-0969		Truss Mach. Tap Scr. 1" Lg.	N
159	731-0801		Bag Handle	N
—	731-0759		Plastic Tubing (Not Shown)	
—	8213-400-6		Hardware Pack (213)	
	8214-400-6		Hardware Pack (214)	

*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.

(621—Brilliant Fire Mist)

If color or finish is important when ordering parts, use the appropriate color code shown above [i.e. (part no.)-621 for Brilliant Fire Mist Finish].

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."

Trouble Shooting Chart

Problem	Cause	Remedy
1 Engine fails to start	**A** Check fuel tank for gas	**A** Fill tank if empty.
	B Fuel shut-off valve closed (Model 214)	**B** Open fuel shut-off valve.
	C Spark plug lead wire disconnected	**C** Connect lead wire.
	D Throttle control lever not in the starting position	**D** Move throttle lever to start position.
	E Faulty spark plug	**E** Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.
	F Carburetor improperly adjusted, engine flooded	**F** Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures.
	G Old stale gasoline	**G** Drain and refill with fresh gasoline
2 Hard starting or loss of power	**A** Spark plug wire loose	**A** Connect and tighten spark plug wire.
	B Carburetor improperly adjusted	**B** Adjust carburetor. See separate engine manual.
	C Dirty air cleaner	**C** Clean air cleaner as described in separate engine manual.
3 Operation erratic	**A** Dirt in gas tank	**A** Remove the dirt and fill tank with fresh gas.
	B Dirty air cleaner	**B** Clean air cleaner as described in separate engine manual.
	C Water in fuel supply	**C** Drain contaminated fuel and fill tank with fresh gas.
	D Vent in gas cap plugged	**D** Clear vent or replace gas cap.
	E Carburetor improperly adjusted	**E** Adjust carburetor. See separate engine manual.
4 Occasional skip (hesitates) at high speed	**A** Carburetor idle speed too slow	**A** Adjust carburetor. See separate engine manual.
	B Spark plug gap too close	**B** Adjust to .030".
	C Carburetor idle mixture adjustment improperly set	**C** Adjust carburetor. See separate engine manual.
5 Idles poorly	**A** Spark plug fouled, faulty, or gap too wide	**A** Reset gap to .030" or replace spark plug.
	B Carburetor improperly adjusted	**B** Adjust carburetor. See separate engine manual.
	C Dirty air cleaner	**C** Clean air cleaner as described in separate engine manual.
6 Engine overheats	**A** Carburetor not adjusted properly	**A** Adjust carburetor. See separate engine manual.
	B Air flow restricted	**B** Remove blower housing and clean as described in separate engine manual.
	C Engine oil level low	**C** Fill crankcase with the proper oil.
7 Excessive vibration	**A** Cutting blade loose or unbalanced	**A** Tighten blade. Balance blade.
	B Bent blade	**B** Replace blade.

Note: For repairs beyond the minor adjustments listed above, contact your local service dealer.

YaRD-MaN
PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all YaRD-MaN manufactured power equipment are available through the authorized service distributors listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required. DO NOT SEND PARTS ORDER TO FACTORY. Dealers should contact their area distributors identified by state abbreviation below.

AZ, CA, NV
A. E. I. CORPORATION
2641 DuBridge Ave.
P.O. Box 16097
Irvine, CA 92713
(714) 474-3070

MD DE, WA-DC, VA, E-WV
ADAMS EQUIPMENT
8001 Newell St.
Silver Springs, MD 20910
(301) 585-1322

NC, SC
ALLISON-ERWIN CO.
2920 N. Tryon Street
P.O. Box 32308
Charlotte, NC 28232
(704) 334-8621

ME, N-NH
M. L. COFFIN CO.
725 Broadway
Bangor, ME 04401
(207) 942-8289

CT VT, RI MA, NH
CRANDALL-HICKS CO.
250 Eliot St.
Ashland, MA 01721
(617) 881-6122

MS
DICKERSON DISTRIBUTORS, INC.
P.O. Drawer 231
127 N. W. Depot
Durant, MS 39063
601-653-3004

S-FL
FLORIDA TURF & GARDEN EQUIP.
7275 NW 64th St.
Miami, FL 33166
(305) 592-3846

N-AL
HART-GREER INC.
224 Oxmoor Circle
Birmingham, AL 35209
(205) 945-4980

MI, NW-OH
IDEAL MOWER SALES
811 Woodward Heights
Ferndale, MI 48220
(313) 541-4660

N-GA
LAWN PRODUCTS OF AMERICA
1275 Alpharetta St.
Roswell, GA 30075
(404) 992-5031

E-PA, S-NJ, (309)
S.P. LUMMUS SUPPLY CO., INC.
800 Industrial Hwy.
Pottstown, PA 19464
(215) 327-4920

C-FL
MANLEY TRACTOR SALES
5909 E. Broadway
Tampa, FL 33619
(813) 626-5900

WI, N-MI
MERCO CORP.
4080 N. Pt. Washington Rd.
P.O. Box 12145
Milwaukee, WI 53212
(414) 961-3200

MN
MERCO CORP. MINN.
1769 Yankee Doodle Rd.
Eagan, MN 55121
(612) 452-0792

N-NJ, (201), NY
NIEMEYER CORP.
1135 Phoenixville Pike
P.O. Box 1477
West Chester, PA 19380-0037
(215) 431-7200

MO, E-KS
OZARK EQUIPMENT CO.
Hwy. 63 & Black Street
Rolla, MO 65401
(314) 364-2180

N-FL, S-GA
POWER EQUIP. DIST. INC.
565 S. Edgewood Ave.
Jacksonville, FL 32205
(904) 387-1512

UT MT, NV S-ID
POWERED PRODUCTS
1661 N. Beck St.
Salt Lake City, UT 84116
(801) 359-9767

OH, IN, W-WV
RAHRIG SALES INC.
108-110 W. Lima St.
Forest, OH 45843
(419) 273-2556

KY TN, S-IL
RASCHE CYCLE CO.
713 Kentucky Ave.
Paducah, KY 42001
(502) 443-5698

ND
ROTT-KELLER CO.
65-28th St. S.
Fargo, ND 58107
(701) 235-0563

NM
HUGO SCHULTE & CO.
6666 Fourth St.
Albuquerque, NM 87107
(505) 345-2633

SD
STERN OIL CO. INC.
394 South Main
P.O. Box 218
Freeman, SD 57029
(605) 925-7999

NE, NE-CO, SE-WY, NW-KS
STICKNEYS INC.
101 Main St.
Sterling, CO 80751
(303) 522-2665

TX, OK, AR, LA
TIMBERLAND SAW CO.
Hwy. 31 South
P.O. Box 1227
Marshall, TX 75671
(214) 935-5251

OR, AK
R. M. WADE & CO.
10025 S. W. Allen Blvd.
Beaverton, OR 97005
(503) 641-1865

WA, W-ID
R. M. WADE & CO.
5808 S. 196th St.
Kent, WA 98032
(206) 872-9233

WA
R. M. WADE & CO.
E. 9922 Montgomery -18
Spokane, WA 99206
(509) 922-6100

CANADA
MTD PRODUCTS CANADA
97 Kent Ave.
Kitchener, Ontario
Canada, N2G 4J1
(519) 579-5500

EXPORT
DRAKE AMERICA CORP.
477 Madison Ave.
New York, NY 10022
(212) 758-5400

BRIGGS & 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 **Engine—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

WARRANTY PARTS AND SERVICE POLICY (0985)

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—Date Repaired.
4. **Nature** of failure—Correction.