Operating Manual

Model Nos. TMO-37463A TMO-37464A



Montgomery Ward

INDEX

| Slope Gauge | 3 |
|---------------------------|----|
| Contents of Hardware Pack | 4 |
| Rules for Safe Operation | |
| Assembly | 6 |
| Controls | |
| Operation | 10 |
| Adjustments | |
| Lubrication | |
| Maintenance | |
| Off-Season Storage | 14 |
| Trouble Shooting Guide | |
| Repair Parts | |
| Parts Information Back (| |

Dear Customer.

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at Montgomery Ward are taking a quick moment out to say ...

"Thank you for your business."

Sincerely. MONTGOMERY WARD



INSTRUCTIONS GIVEN WITH THIS SYM-**BOL ARE FOR PERSONAL SAFETY. BE** SURE TO FOLLOW THEM.

NOTICE: A data plate with the model number and serial numbers of your unit is located on the top rear of the deck. Record these numbers in the spaces provided on the back cover of this guide.

BEFORE YOU CALL SERVICE

Check Spark Plug Wire

- Firmly attached?
- · Wire terminal clean?

Check Crankcase Oil Level

Overfilled/underfilled?

Check Fuel Tank

- · Fuel in tank?
- Fuel shut-off open?
- Fuel dirty or stale?
- If tank has been empty for a long period, fill tank completely.

Check Air Cleaner

- Clean?
- Choke plate stuck?
- Governor spring free to move?

Check Under Blade Housing (Disconnect Spark Plug First)

· Blade obstructed or bent?

Check Starting Instructions

 Read instruction manuals and labels for specific instructions.

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 without the entire grass catcher or chute deflector in place. DO NOT operate the mower without the protective shield on the rear of the deck in place.

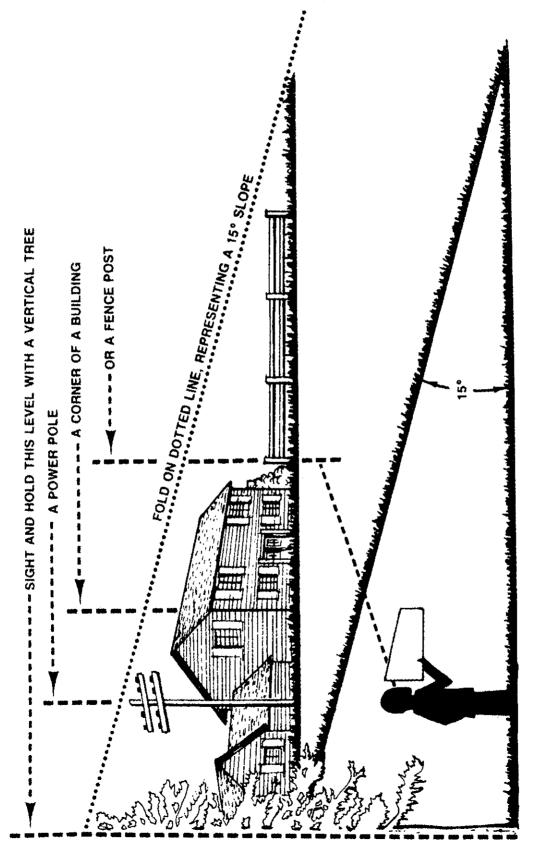
NOTE: Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations. For replacement bags, use only factory authorized replacement bag.

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 for the muffler is available through your nearest engine authorized service dealer.

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)



USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.

-- Cut Along This Line-

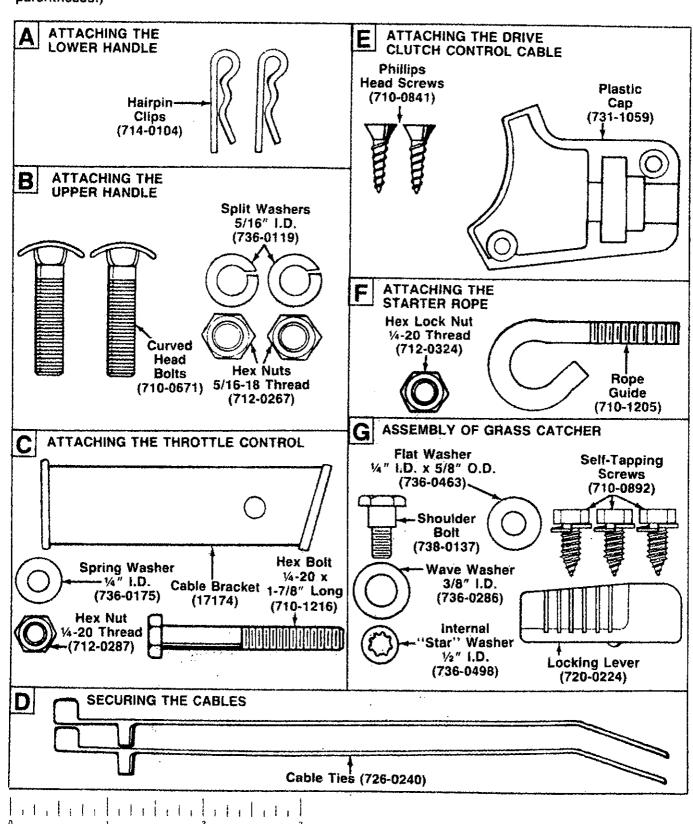


riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain vour funtion and use serious injury.

Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes Operate RIDING mowers up and down slopes, never across the face of slopes.

CONTENTS OF HARDWARE PACK

Remove this sheet from your owner's manual and lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which is on the reverse side of this sheet for future use. (Hardware pack may contain extra items which are not used on your unit.—Part numbers are shown in parentheses.)



-Cut Along This Line

IMPORTANT

RULES FOR SAFE OPERATION



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS, READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— A HEED ITS WARNING.





DANGER:

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

TRAINING

- Read this owner's guide 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.
- Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times. Your unit has been designed to perform one job: to mow grass. Do not use it for any other purpose.
- Never allow children under 14 years old to operate a power mower.
 Children 14 years old and over should only operate mower under close parental supervision. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- 4. 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 to help prevent blade contact or thrown object injury. 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

- 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. Plan your mowing pattern to avoid discharge of material toward roads, sidewalks, bystanders and the like.
- Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from toreign objects that may be thrown from the machine in any direction.
- Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Shirts and pants that cover the arms and legs and steeltoed shoes are recommended. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- 4. Before working with gasoline, extinguish all digarettes, digars, pipes and other sources of ignition. Check the fuel level before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for at least two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- 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 and automatically return to the disengaged postition when released.
- Never attempt to make a wheel or cutting height adjustment while the engine is running.
- 8 Never operate the mower in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.

9. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.

- 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.
- 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
- 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.
- Never cut grass by pulling mower toward you. 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.
- Never operate mower without proper guards, plates or other safety protective devices in place.
- 11. Muffler and engine become hot and can cause a burn. Do not touch
- Do not operate this mower with the chute door open, unless the complete grass catcher or chute deflector is properly mounted on the mower.

MAINTENANCE AND STORAGE

- Check the blade and engine mounting bolts at frequent intervals for proper tightness. Also visually inspect blade for damage (e.g. bent, cracked). Replace with blade which meets original equipment specifications.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- Never store the mower with gasoline in the tank or gas containers inside of a building where tumes may reach an open flame or spark (e.g. gas hot water heater). Allow the engine to cool before storing in any enclosure
- To reduce fire hazard, keep the engine free of grass, leaves and excessive oil.
- 5 Check the grass catcher bag frequently for wear or deterioration. Replace a worn or damaged bag immediately. For safety protection, replace only with new bag meeting original equipment specifications.

ASSEMBLY INSTRUCTIONS

IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

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

Tools Required for Assembly

- (1) Pair of Pliers
- (1) 1/2" Wrench*
- (2) 7/16" Wrenches*
- *Or two 6" Adjustable Wrenches

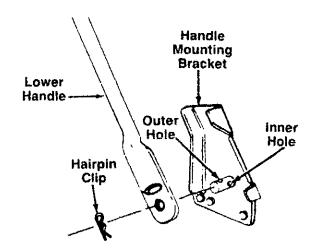


FIGURE 1.

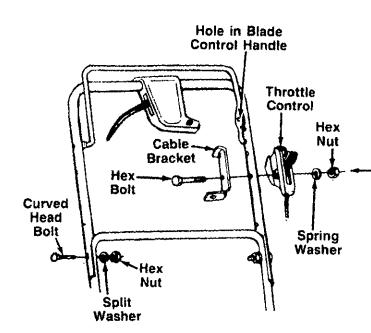


FIGURE 2.

UNPACKING

 Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded. ٤ŧ

- 2. Disconnect the spark plug wire and move away from the spark plug.
- Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
- Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

ATTACHING THE LOWER HANDLE (Hardware A)

- Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mounting brackets on the rear of the deck. The extra hole in the upper part of lower handle must be on the right side of the unit.
- Using a pair of pliers, squeeze one leg of the lower handle against the handle mounting bracket. Insert the hairpin clip into the inner hole on the weld —pin. See figure 1. Repeat on other side.

NOTE: There are two (2) holes in the handle mounting brackets. Place the hairpin clip in the inner hole for operation. Outer hole is for storage.

ATTACHING THE UPPER HANDLE (Hardware B)

- Place the upper handle in position over the lower handle. The hole in the side of the blade control handle (attached to the upper handle) must be on the left side.
- Secure the upper handle using the curved head bolts, split washers and hex nuts as shown in figure 2. Tighten securely.

ATTACHING THE THROTTLE CONTROL (Hardware C)

The throttle control is attached to the engine. Attach the throttle control to the **left** side of upper handle as follows. See figure 2.

- Route the throttle control cable inside the handle mounting bracket and beneath the lower handle.
- Place cable bracket against left side of upper handle, lining up the hole in the bracket with the bottom hole in upper handle. Place 1/4" hex bolt through cable bracket and handle, from the inside to the outside.
- Place throttle control on the hex bolt (outside of the upper handle), with the throttle lever facing upward. Secure with spring washer (cupped side against the throttle control) and hex nut.

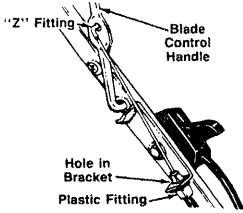


FIGURE 3.

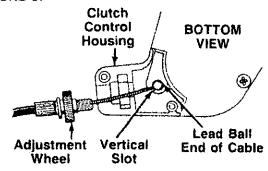


FIGURE 4.

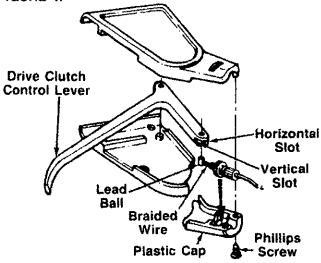


FIGURE 5.

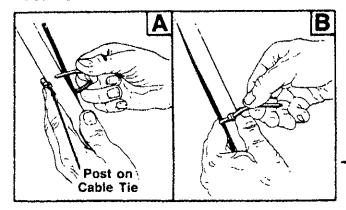


FIGURE 6.

ATTACHING THE BRAKE CABLE

The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable below the lower handle. Place end of cable through the hole in the bracket as shown in figure
 Be careful not to bend or kink the cable at any time. Push the plastic fitting until it locks into the hole in the bracket.



WARNING: Brake cable must be assembled as shown for proper blade brake operation.

2. Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 3.

ATTACHING THE DRIVE CLUTCH CONTROL CABLE (Hardware E)

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

- 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 4.
- Slide the braided wire around in the horizontal slot. See figure 5.
- Make certain the adjustment wheel is threaded onto the cable as far as possible as shown in figure
 Place the adjustment wheel into the clutch control housing.
- Secure the plastic cap to the clutch control housing using the two Phillips head screws. See figure



WARNING: Drive clutch adjustment must be checked before the unit is operated, as described in the Operation Section.

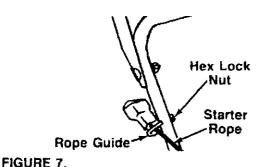
SECURING THE CABLES (Hardware D)

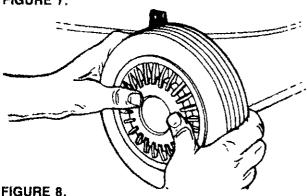
Secure all cables to the left side of the handle as follows.



WARNING: When attaching the control cables, the cables must be routed to avoid contact with all sharp edges and hot surfaces to prevent damage to the cables, which will render the controls inoperative.

- Insert posts on cable ties into holes provided on the lower handle. The holes may be either on the inside or outside of the handles. See figure 6A.
- Secure the cables with the cable ties. See figure 6B.
- 3. Trim excess ends of cable ties.





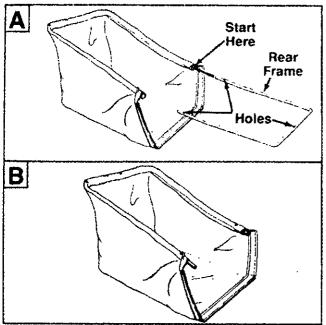


FIGURE 9.

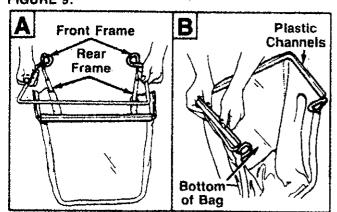


FIGURE 10.

ATTACHING THE STARTER ROPE (Hardware F)

- The starter rope is inside the top of the engine. Additional rope may be wound around the starter handle. If so, unwind the rope from the handle.
- With the spark plug wire disconnected and grounded, depress the blade control handle and pull the rope out of the engine.
- Place the rope guide around the starter rope, so the rope guide is positioned as shown (bends downward slightly). Insert the rope guide through the right side of the lower handle, and secure with hex lock nut. See figure 7.

INSTALLATION OF HUB CAPS

Place hub caps in position against the inner hub of the wheel. Press firmly around the center portion of hub cap in a circular motion, similar to installing a lid on—a round, plastic container. See figure 8. The hub caps are flexible and will snap over the 3½" diameter wheel hubs.

NOTE: It may be helpful to place the hub caps in hot tap water for several minutes to make them pliable before installing, especially if the temperature is less than 60° F.

FINAL ASSEMBLY OF MOWER

Make certain all nuts and bolts are tightened securely.

ASSEMBLY OF GRASS CATCHER (Hardware G)

NOTE: Make certain the grass bag is turned right side out before assembling (warning label will be on the outside).

- There are three holes in the rear frame. With the holes on the upper side as shown in figure 9A, insert one end of the rear frame into the cloth channel on the edge of the grass catcher bag. Feed all the material on one side of the frame, then work it around the frame. See figure 9B.
- Slide the ends of the front frame assembly into the ends of the rear frame as shown in figure 10A.
- Secure front of bag to front frame by slipping plastic channels on sides and bottom of bag over frame. See figure 10B.

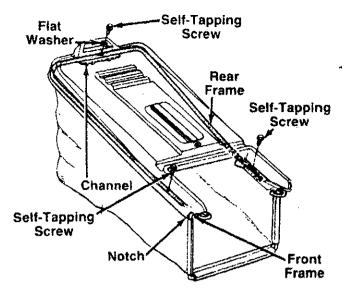


FIGURE 11.

- Attach the hardtop cover to the grass catcher as follows. See figure 11.
 - a. Place the cover in position on top of the grass catcher. Press the rear frame into the channel on the rear of the cover (beneath the rear handle).
 - b. Slide the notches on the sides of the cover over the front catcher frame.
 - c. Attach rear of cover to frame using the flat washer and one self-tapping screw as shown in figure 11. Attach the sides of the cover to frame with the other two self-tapping screws.

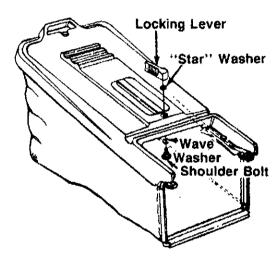


FIGURE 12.

- 5. Assemble the locking lever as follows:
 - a. Place wave washer on shoulder bolt (crowned side of washer goes against the head of bolt).
 - b. Insert shoulder bolt up through hole in hardtop — cover as shown in figure 12. Place "star" washer over shoulder bolt.
 - c. Thread shoulder bolt into the grass catcher locking lever, using a 9/16" socket wrench. Do not overtighten. Locking lever must be able to pivot.

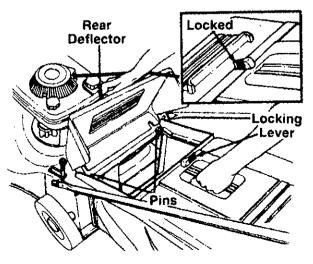


FIGURE 13.

ATTACHING BAG TO MOWER

Lift the rear deflector on the mower. Place the loops on the grass catcher frame over the pins on the back—of the mower. See figure 13. Release the rear deflector. Turn the locking lever to the locked position to secure the rear deflector. See figure 13, inset.

To remove the grass catcher, turn the locking lever to the unlocked position and lift the rear deflector on the mower. Lift the grass catcher up, over the pins on the back of the mower. Release the deflector.

CONTROLS

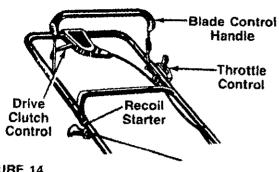


FIGURE 14.

BLADE CONTROL HANDLE



WARNING: This control mechanism is a safety device. Never attempt to bypass its operations.

The blade control handle is located on the upper handle of the mower. See figure 14. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.



WARNING: The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the side of the upper handle. It is used to regulate the engine speed.



WARNING: The throttle control cannot be used to stop the engine.

RECOIL STARTER

The recoil starter handle is attached to the handle. See figure 14. Stand behind the unit in the operating position to start the unit.

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.

The operation of any lawn mower can result in foreign objects being thrown into the eyes, which



can result in severe eye damage. Always wear safety glasses or eye shields. We recommend wide vision safety mask for over spectacles or standard safety glasses.

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 section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.



WARNING: Never fill fuel tank indoors. with engine running or until the engine has been allowed to cool for at least two minutes after running.

BEFORE STARTING

1. Attach spark plug wire to spark plug. Make certain the metal loop on the end of the spark plug wire (inside the rubber boot) is fastened securely over the metal tip on the spark plug. See figure 16.

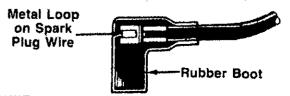


FIGURE 16.

- Open fuel shut-off valve (if so equipped). Refer to separate engine manual.
- 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 build-up in the pulley groove. Correct and adjust as required.

TO START ENGINE AND ENGAGE BLADE



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.

- 1. Move throttle control lever all the way forward.
- Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown. See figure 17.
- Grasp the recoil starter handle and pull back rapidly, extending rope fully. Return it slowly to the rope guide.
- 4. After engine starts, move throttle control to desired engine speed.

NOTE: If any problems are encountered, refer to the Trouble Shooting Guide on page 15.

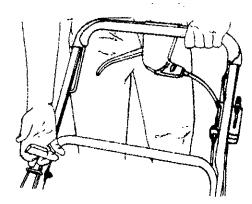


FIGURE 17.

TO STOP ENGINE AND BLADE

- 1. Move throttle control lever to SLOW position.
- 2 Release the blade control handle to stop the engine and blade.



WARNING: The blade continues to rotate for a few seconds after the engine is shut off

Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

USING YOUR ROTARY MOWER



WARNING: Never operate your unit without either the rear deflector or entire grass catcher assembly in place.

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.

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.

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.



WARNING: 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. 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.

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 18.

Download from Www.Somanuals.com. All Manuals Search And Download.

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

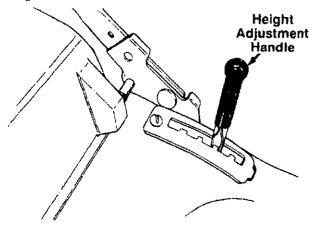


FIGURE 18.

DRIVE CLUTCH CONTROL ADJUSTMENT

Use the adjustment wheel located in the clutch control housing to tighten the drive belt if mower does not self-propel with the drive clutch control engaged, or if drive belt is slipping (unit hesitates while engine maintains the same speed). See figure 19.

In addition, the adjustment wheel may also be used to determine the position in which the drive clutch control is engaged. If it is more comfortable to have the drive engaged with the lever further away from the handle, tighten the drive belt.

Make certain to retest the unit for neutral as instructed in the Operation Section. Move the adjustment wheel in the opposite direction to loosen the drive belt if necessary.

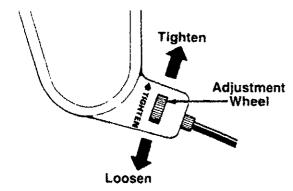


FIGURE 19.

THROTTLE CONTROL ADJUSTMENT

If the throttle control requires adjustment or if it has been replaced, adjust the throttle control as follows.

- Remove the screw shown in figure 20. Remove the cable clamp from the cable.
- 2. Push the throttle control lever on the handle all the way forward to CHOKE position. Make certain the throttle control lever remains in this position.

Push the control lever on the engine as far toward the rear of the engine as it will go. Secure the cable in this position with the cable clamp and screw.

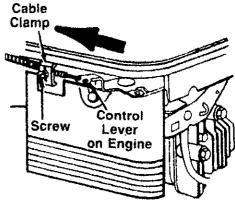


FIGURE 20.

CARBURETOR ADJUSTMENTS



WARNING: If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffier.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, attitude and load. To adjust carburetor, refer to the separate engine manual packed with your mower.

NOTE: A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

LUBRICATION



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

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. See figure 21. The blade control must operate freely in both directions.

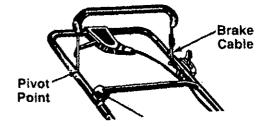


FIGURE 21.

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

Wheels-Lubricate the wheels 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 Jubrication instructions.

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

Transmission—The transmission is pre-lubricated and sealed at the factory. It does not require checking. If disassembled for any reason, fill with 2 ounces of Alvania grease, part number 737-0168.

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 or muffler side up.

TROUBLE SHOOTING

Refer to page 15 of this manual for trouble shooting information.

CUTTING BLADE

When removing the cutting blade for sharpening or replacement, protect hands by using heavy gloves or a rag to grasp the cutting blade. Remove the bolt and bell washer which hold the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.



WARNING: Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

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.

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

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

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.

Blade Mounting Torque

Center Bolt and Blade Adapter Bolts: 375 in. lb. min., 450 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 the mower deck should be cleaned after each use to prevent a buildup of grass clippings, leaves, dirt or other matter. If this debris is allowed to accumulate, 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 and scraping clean with a suitable tool (make certain the spark plug wire is disconnected).

ENGINE

Refer to the separate engine manual for engine maintenance instructions.

Maintain engine oil as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

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

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.

Clean the engine regularly with a cloth or brush. Keep the cooling system (blower housing area) clean to permit proper air circulation which is essential to engine performance and life. Be certain to remove all grass. dirt and combustible debris from muffler area.

BELT REMOVAL AND REPLACEMENT

- 1. Disconnect the spark plug wire and ground it against the engine.
- 2. Drain the fuel tank or place a piece of plastic beneath the cap to prevent pasoline leakage.
- 3. Tip the mower back on its handle. Block securely.
- 4. Remove the rear belt baffle by removing the lock washer and hex nut shown in figure 22. Then remove one Torx bolt, using a #27 Torx driver. A 9/64" Allen wrench may also be used. Then remove one carriage bolt, lock washer and nut as

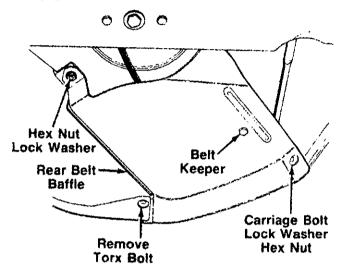
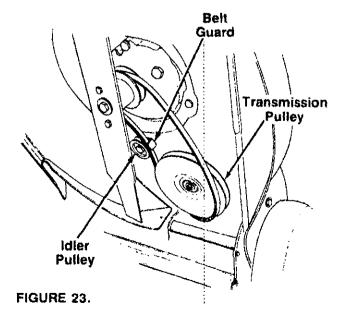


FIGURE 22.

- 5. Roll the belt off the transmission pulley. Remove the belt from between the idler pulley and belt guard. See figure 23.
- 6. Remove the belt from the pulley on the engine crankshaft, and pull it over the blade.



7. Reassemble in reverse order with the new belt.

NOTE: When reassembling the rear belt baffle, make certain the belt keeper is outside of the belt, and the edge of the rear belt baffle is between the rear chute baffle and the rear panel as shown in figure 22. Make certain to tighten all nuts and bolts securely. If plastic was placed under the gas cap, be certain to remove it.

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 rust-proof the equipment. Using a light oil or silicone, coat the equipment, especially cables and all moving parts.

HANDLE STORAGE

The handle may be placed in an upright position for storage. Move hairpin clips to outer hole on weld pins. See figure 1. Press outward on the bottom of the lower handle and push forward. The handle will lock in this

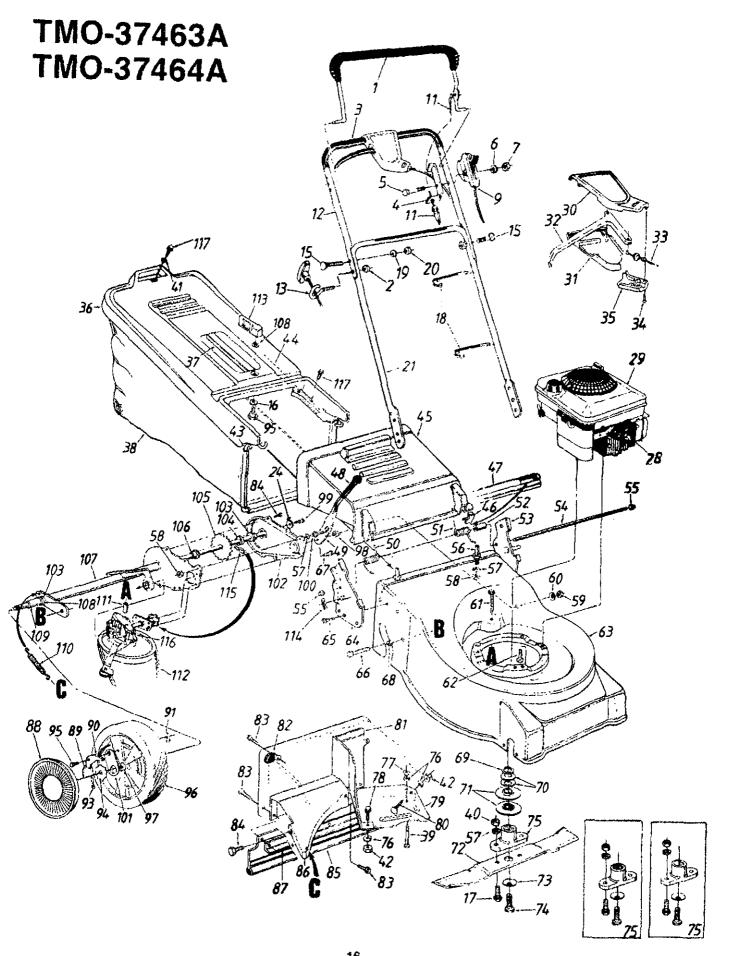
To place the handle in the operating position, remove the starter rope from the rope guide. Grasp the lower handle at the bottom, press outward slightly and tip the handle backward. Place the hairpin clips in the inner holes. With the spark plug wire disconnected and grounded, depress the blade control handle and pull the starter rope out from the engine. Slip the starter rope into the rope guide.

TROUBLE SHOOTING GUIDE

| Trouble | Possible Cause(s) | Corrective Action |
|--|---|---|
| Engine falls to start | Blade control handle disengaged. Spark plug wire disconnected. Throttle control lever not in CHOKE or START position. Fuel shut-off valve closed (if so equipped). Fuel tank empty, or stale fuel. Blocked fuel line. Faulty spark plug. Engine flooded. | Engage blade control handle. Connect wire to spark plug. Move throttle lever to CHOKE or START position. Open fuel shut-off valve. Fill tank with clean, fresh gasoline. Clean fuel line. Clean, adjust gap or replace. Remove spark plug, dry the plug, and crank engine with plug removed and throttle in off position. Replace spark plug, connect wire and resume starting procedures. |
| Engine runs erratic | 1. Unit running in CHOKE or START position. 2. Spark plug wire loose. 3. Blocked fuel line or stale fuel. 4. Vent in gas cap plugged. 5. Water or dirt in fuel system. 6. Dirty air cleaner. 7. Carburelor out of adjustment. | Move throttle lever to FAST position. Connect and tighten spark plug wire. Clean fuel line; fill tank with clean, fresh gasoline. Clear vent, Drain fuel tank. Refill with fresh fuel. Clean air cleaner.† Adjust carburetor.† |
| Engine overheats | Engine oil level low. Air flow restricted. Carburetor not adjusted properly. | 1. Fill crankcase with proper oil. 2. Remove blower housing and clean.† 3. Adjust carburetor.† |
| Occasional skip (hesitates) at high speed | Spark plug gap too close. Carburetor idle mixture adjustment improperly set. | Adjust gap to .030" Adjust carburetor.† |
| ldies poorly | Spark plug fouled, faulty or gap too wide. Carburetor improperly adjusted. Dirty air cleaner. | Reset gap to .030" or replace spark plug. Adjust carburetor.† Clean air cleaner.† |
| Excessive vibration | Cutting blade loose or unbalanced. Bent cutting blade. | Tighten blade and adapter. Batance blade. Replace blade. |
| Mower will not discharge grass | Engine speed too low. Wet grass. Excessively high grass. | Set throttie between 3/4 and full throttle. Do not mow when grass is wet; wait until later to cut. Mow once at a high cutting height, then mow again at desired height or make a narrower cutting swath (1/2 width). |
| Uneven cut | Duli blade. | Sharpen or replace blade. |

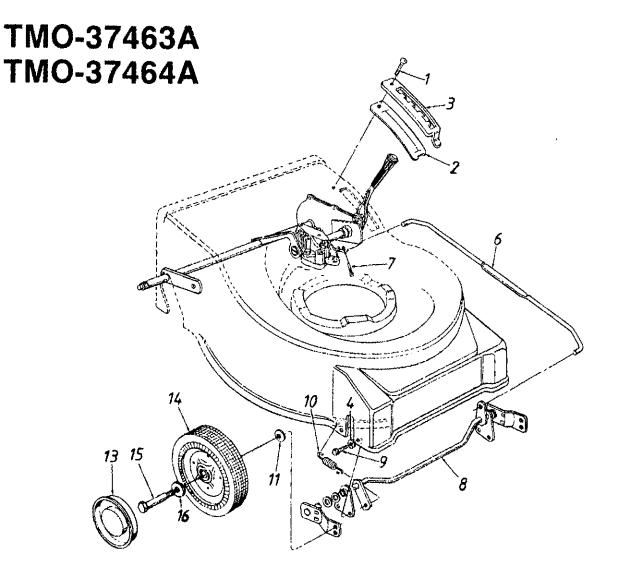
†Refer to separate engine manual packed with your unit.

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



21" ROTARY MOWERS PARTS LIST FOR MODELS TMO-37463A AND TMO-37464A

| REF. NO. | PART NO. | DESCRIPTION | REF. | PART NO. | DESCRIPTION |
|-------------|-----------------------|---|----------|-------------|--|
| | 731-1135 712-0324 | Deluxe Control Handle Hex Lock Nut ¼-20 Thd. | 65 | 710-0892 | Hex L-Wash, Hd. AB-Tap Scr. 1/4 x .62" Lg. |
| 3 | 720-0225 17174 | Foam Grip Cable Bracket | 66 | 710-1006 | Hex Wash, Hd. Tap Scr. |
| 5 | 710-1216 | Hex Bolt 1/4-20 x 1.875" Lg. | 67 | 710-0599 | 3/8-16 x .75" Lg. Hex Wash. Hd. Tap Scr. |
| | 736-0175 712-0287 | Spr. Wash. ¼" I.D. Hex Nut ¼-20 Thd.* | 68 | 750-0736 | 1/4-20 x .5" Lg. Spacer .383" I.D. |
| 9 | | Throttle Control Ass'y. Comp.— | | 748-0332 | Crankshaft Spacer (Used w/Splined Pulley) |
| | 746-0554 | Control Cable—40.5" | | 736-0450 | Bell-Wash, 1.01" I.D. |
| • | 749-0439B | Upper Handle | 71 | (| Splined Pulley Half (2 Req'd.) |
| | 710-1205 | Rope Guide | | 742-0306A | 21" Blade |
| 15 | 710-0671 | Curved Carriage Bolt 5/16-18 x 1.38" Lg. | 73 74 | | Beil-Wash46" t.D. Hex Bolt 7/16-20 x 1.5" Lg. |
| 16 | 736-0286 | Bowed Washer | | | (Gr. 5) |
| | 710-1055 | Hex Bolt 3/8-24 x 1" Lg. | 75 | 753-0485 | Blade Adapter Kit |
| | 726-0240 | Cable Tie | 76 | 736-0329 | L-Wash. ¼" I.D.* |
| | 736-0119 | L-Wash. 5/16" I.D.* | 77 | | Hex Jam Nut 1/4-20 Thd. |
| | 712-0267 | Hex Nut 5/16-18 Thd.* | 78 | | Hex Bolt 1/4-20 x .85" Lg. |
| 21 | 749-0504C | Lower Handle | 79 | 17013 | Rear Belt Baffle |
| | 736-0270 | Bell-Wash265" I.D. x .75" | 80 | 710-0167 | Carr. Bolt 1/4-20 x .50" Lg.* |
| 28 | 735-0639 | Spark Plug Boot | 81 | 17006 | Rear Panel Baffle |
| 29 | | Engine | 82 | | Corner Plug |
| | 731-1057 | Control Cover Half—Upper | 83 | 710-1017 | Torx Mach. AB-Tap Scr. 1/4 x |
| | 731-0618A | Control Cover Half—Lower | | | .62" Lg |
| | 731-0620 | Control Lever | | 710-0352 | Hex B-Tap Scr. 1/4 x .38" Lg. |
| 33 | 746-0711A | Drive Cable—51" Lg. | | 731-0669 | Rear Flap |
| 34 | 710-0841 | Flat C-Sunk Hd. Tap Scr. | | 17008 | Rear Chute Baffle |
| | ma | #10 x .75" Lg. | | 14847 | Retaining Strip |
| | 731-1059 | Cable Mtg. Cap | | 731-0981A | Hub Cap |
| | 731-0857A | Hardtop Bag Cover | | 106228 | Plastic Spring |
| | 731-0856 | Hardtop Handle | | 748-0188B | Pawl .345" I.D. |
| | 764-0252 | Grass Bag | | 712-0189 | Weld Nut 1/4-20 Thd. |
| | 710-0166 | Truss Mach. Scr. 1/4-20 x 1.0" Lg. | | | Cotter Pin 1/8" Dia. |
| | 712-0241 | Hex Nut 3/8-24 Thd.* | 94 | | Ratchet Wheel 1.62" O.D. |
| | 736-0463 | FI-Wash281" I.D. x .62" | 95 | | Shid. Bolt .342" Dia. x .268" |
| | 712-0287 | Hex Nut 1/4-20 Thd.* | | 734-1510B | Wheel Ass'y, Comp.—Rear |
| | 764-0411 | Front Catcher Frame Rear Catcher Frame | | 741-0486B | Bearing 1/2" I.D. |
| 44 | 749-0736A 731-0859 | Chute Deflector | | 750-0624 | Shid. Spacer .50" Dia. |
| | 731-0639 731-0970B | Deflector Plug | 39 | 710-0751 | Hex Bolt 1/4-20 x .62" Lg. |
| | 731-0858 | Seal—Extrusion | 100 | 711-0805 | (Gr. 5) Shld. Pin 3/8-24 x 1.43" Lg. |
| | 720-0223 | Grip | | 16855 | Pawi Plate |
| | 732-0580 | Spring Lever | | 17053A | Chain Cover Ass'y. |
| | 732-0578A | Torsion Spring—R.H. | | 741-0324 | Hex Flange Brg506" I.D. |
| | 732-0577A | Torsion Spring—L.H. | | 736-0160 | Fl-Wash531" I.D. x .93" |
| | 750-0566 | Spacer .255" I.D. | | 738-0719A | Rear Axle Ass'y. |
| | 12297A | Handle Brkt. Ass'y.—L.H. | | 741-0522 | Hex Flange Bearing |
| | 747-0698B | Hinge Pin 17.75" Lg. | | 17009 | Chain Axle Ass'y. |
| | 726-0106 | Cap Speed Nut | | 736-0498 | Internal L-wash. 1/4" I.D. |
| | 711-0805 | Shid. Pin 3/8-24 x 1.43" Lg. | 1 | 748-0190 | Spacer .513" I.D. |
| | 736-0169 | L-Wash. 3/8" I.D.* | | 732-0481 | Extension Spring 3.8" Lg. |
| | 712-0711 | Hex Jam Nut 3/8-24 Thd. | | 750-0589 | Spacer .325" I.D. |
| | 712-0296 | Hex L-Nut 3/8-24 Thd. | | 754-0346 | V-Belt |
| | 736-0105 | Bell-Wash38" t.D. x .88" | | 720-0224 | Grass Catcher Locking Knob |
| | 710-0778 | Hex Wash, Hd. Tap Scr. | | 714-0104 | Internal Cotter Pin 5/16" Dia. |
| | | 1/4-20 x 1.5" Lg. | | 713-0353 | #48 Chain .50" Pitch x 30 Link |
| 62 | 710-0654A | Hex L-Wash, Hd, Scr. 3/8-16 x 1" Lg. | | 717-0417B | Transmission Comp. (See Breakdown) |
| | 16997CC638 12296A | 21" Deck Ass'y.—R.H. | 117 | 710-0892 | Hex L-Wash. AB-Tap Scr. 1/4 x .62" Lg. |



21" ROTARY MOWERS PARTS LIST FOR MODELS TMO-37463A AND TMO-37464A

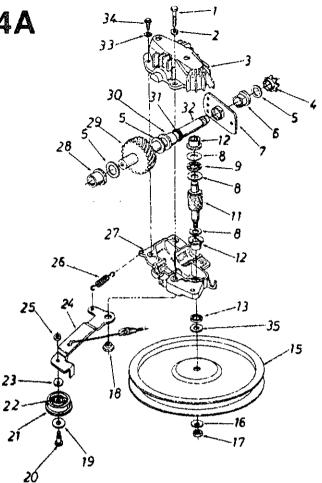
| REF. | PART NO. | DESCRIPTION | REF. | PART NO. | DESCRIPTION |
|------|-------------|---|----------|----------------------|--|
| 1 | 710-1017 | Torx Mach. AB-Tap Scr. ¼ x .62" Lg. | 10 11 | 732-0589 736-0105 | Extension Spring 2.39" Lg. Bell-Wash380" I.D. x .88" |
| 2 | 721-0216 | Height Adjustment Support | | | Q.D. |
| 3 | 17323 | Height Adjustment Plate | 13 | 731-0981A | Hub Cap (See Below) |
| 4 | 736-0329 | L-Wash. 1/4" I.D.* | 14 | 734-1512A | Wheel Ass'y, Comp.—Front |
| 6 | 747-0699 | Height Adj. Connecting Rod | 15 | 738-0102 | Shld, Bolt .498" Dia. x 1.45" |
| 7 | 714-0507 | Cotter Pin 3/32" Dia. | 16 | 736-0232 | Wave Wash. ,53" I.D. x .78" |
| 8 | 17022 | Front Axle Ass'y. | ' | . 55 5252 | 11470 174371. 100 11,D, X 170 |
| 9 | 710-0352 | Hex L-Wash. Hd. AB-Tap Scr. ¼ x .38" Lg. | | | |

^{*}Common Hardware—May be purchased locally. IMPORTANT: DO NOT order parts by reference number (Ref. No.).

NOTE: Specifications subject to change without notice or obligation.

| Part No. | Description | | |
|-----------|---|--|--|
| 788-0629 | Silver Flake Spray Paint | | |
| 777-6827 | Montgomery Ward Plastic Logo (Deck) (TMO-37463A) | | |
| 777-9848 | Deck Label (TMO-37464A) | | |
| 770-7640F | Operating Manual | | |

TMO-37463A TMO-37464A



21" ROTARY MOWERS PARTS LIST FOR MODELS TMO-37463A AND TMO-37464A

| REF. NO. | PART NO. | DESCRIPTION | REF. | PART NO. | DESCRIPTION |
|-------------|-------------|-------------------------------------|----------|----------------------|---|
| 1 | 710-1062 | Hex Bolt 1/4-20 x 1.25" Lg. w/Patch | 19 20 | 736-0344 738-0826 | Fl-Wash390" I.D. x 1.0"† Shld. Bolt .375" Dia. x .40"† |
| 2 | 736-0329 | L-Wash. ¼" I.D.* | 21 | 756-0558 | Fl-Idler Plastic 1.50" Dia.† |
| 3 | 717-0418A | Upper Hsg. Half | 22 | 741-0556 | Needle Brg375" x .31† |
| 4 | 713-0400 | #48 Sprocket 7 Tooth x 1/2 | 23 | 736-0270 | Bell-Wash265" I.D. x .75"† |
| į | | Pitch | 24 | 17052A | Idler Brk't. Ass'y,† |
| 5 | 736-0336 | Fl-Wash. 5/8" I.D. x .030 | 25 | 712-0138 | Hex Patch L-Nut 1/4-28 Thd.† |
| 6 | 741-0413 | Hex Flange Brg631" I.D. | 26 | 732-0357 | Extension Spring 1.12" Lg.† |
| 7 | 16500A | Hex Bearing Cup | 27 | 717-0419A | Lower Hsg. Half |
| 8 | 736-0314 | Thrust Wash382" I.D. x | 28 | 741-0415 | Flange Bearing 566 Dia. |
| ! | | .70" O.D. | 29 | 717-0422 | 33 Tooth Helical Gear |
| 9 | 741-0479 | Thrust Bearing .375" L.D. x | 30 | 741-0414 | Flange Bearing .629 Dia. |
| . ! | | .812" O.D. | 31 | 721-0213 | Oil Seal .625 Dia. |
| 11 | 717-1216 | 11 Tooth Pinion Shaft | 32 | 738-0607 | Gear Sprocket Shaft |
| 12 | | Flange Bearing | 33 | 736-0722 | L-Wash, #10 I.D. |
| 13 | 721-0212 | Oil Seal | 34 | 710-0436 | Hex 8-Tap Scr. #10 x .62" |
| 15 | 756-0330A | Fi-Pulley 5.06" O.D.† | 35 | 736-0410 | Hex Washer .26" x .88"† |
| 16 | 736-0270 | Bell-Wash265" LD, x .75"† | | 717-0417B | Transmission Comp. |
| | 712-0351 | Hex L-Nut 1/4-28 L.H. Thd.† | | | |
| 18 | 738-0440 | Shld. Spacer .375" Dia. x | | | |
| | | .170† | | | |

†Not Part of Transmission Complete

Montgomery Ward

HOW TO OBTAIN REPLACEMENT PARTS AND SERVICE

The merchandise you have purchased from us has been carefully engineered and manufactured under Montgomery Ward's rigid quality standards and should give you satisfactory and dependable operation. However, like all mechanical merchandise, it may occasionally require adjustment, replacement parts or maintenance.

Toil Free Parts Sales Center

When you need a replacement part or accessory for a major appliance, home electronic item or lawn and garden product that is not under warranty or covered by a service contract or if you need the location of the nearest service facility, call our Parts Sales Center toll free 1-800-323-1965.

Provide the following:

- Model, serial number and all of the other data shown on the model plate.
- 2. Also give the part number or numbers as shown in the parts list that came with the product,

Replacement Parts will be made evailable at current prices. If requested, prices will be quoted in advance when not listed.

If you order parts by mail, you will pay the transportation charges from the shipping point.

| UNIT MODEL NO |
|------------------|
| UNIT SERIAL NO. |
| ENGINE MODEL NO. |
| TYPE NO. |
| CODE NO |

PART NO. 770-7640F 121-476R088 121-478R088 Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com