

# OWNER'S MANUAL

## REAR BAGGING ROTARY MOWER

### MODEL 2105-61

#### WARRANTY

#### ONE YEAR LIMITED WARRANTY

For one (1) year from date of purchase by the first consumer for residential use (thirty (30) days commercial use), Western International Incorporated warrants that it will replace free of charge, including labor, any original part of any Western International Incorporated product found to be defective by any authorized Service Dealer or the factory.

This warranty does not cover battery (if so equipped) or engine (these items are covered by their manufacturer's own warranty). This warranty does not cover parts that have failed due to normal wear or parts that have failed subject to misuse or abuse. Transportation of the unit or part to and from an authorized Service Dealer or the factory is the responsibility of the owner.

A step by step explanation as to what procedure should be followed for this Warranty is:

1. If a part becomes defective, contact the store where the unit was purchased for the name and address of the authorized Service Dealer nearest to you.
2. If you cannot locate an authorized Service Dealer, write Service Department of Western International Incorporated for the name and address of the authorized Service Dealer in your area or call the Service Department at 1-515-265-3461.
3. Return the defective product, along with proof of purchase to such authorized Service Dealer for replacement of any defective part where covered by this warranty.

There is no other express warranty. Implied warranties, including those of merchantability and fitness for a particular purpose are limited to one (1) year from date of purchase. Liability for incidental or consequential damages are excluded.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Western International Incorporated

P.O. Box 377

Des Moines, Iowa 50302

#### UNIT PARTS AND SERVICE

This manual contains instructions for safety, assembly and maintenance. Read this manual carefully and completely so that you will know proper assembly, use and care of your unit. Also fill in and mail the registration card packed with the unit. For service other than covered in this manual, contact an authorized service dealer. A nationwide parts and service organization has been established to provide locally available parts and service. A list of authorized parts distributors has been included in this manual. When ordering repair parts, always give the following information: 1. The Part Name; 2. The Part Number; 3. The Quantity desired; 4. The Full (eight digit) Model Number of the unit. The model number will be found on a plate attached to the unit.



Look for this symbol.

It means - ATTENTION! BECOME ALERT! A HAZARD TO OPERATOR, BYSTANDERS, PROPERTY OR EQUIPMENT MAY EXIST.

WESTERN INTERNATIONAL INCORPORATED

P.O. BOX 377

DES MOINES, IOWA 50302

Part No. 300353

0388



## OPERATIONAL PRECAUTIONS

THESE INSTRUCTIONS ARE FOR YOUR PROTECTION. PLEASE READ THEM CAREFULLY.



### TRAINING

1. Read the owner's manual carefully. Be thoroughly familiar with controls and the proper use of the mower.
2. Never allow children or young teenagers to operate a power mower and instruct them to stay away while it is operating. Never allow adults to operate mower without proper instructions.
3. Wear safety glasses or eye shields when assembling or operating mower.
4. Keep the area of operation clear of all persons, particularly small children, and pets.

### PREPARATION

1. Thoroughly inspect the area where the mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
2. Do not operate the mower when barefoot or wearing sandals. Always wear substantial footwear. Do not wear loose fitting clothing that could get caught in moving parts.
3. Check the fuel before starting the engine. Do not fill the fuel tank indoors, when the engine is running or until the engine has been allowed to cool for several minutes after running. Clean off any spilled fuel before starting the engine. Use only approved fuel container.
4. Disengage the self-propelling mechanism or drive clutch on mowers so equipped before starting the engine (motor).
5. Never attempt to make a wheel height adjustment while the engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate the mower in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

### OPERATION

1. Do not change the engine governor settings or over-speed the engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
3. Rear bagging models are not designed to be used as a mulcher. GRASS CATCHER MUST ALWAYS BE IN PLACE AND REAR DOOR MUST BE OPEN.
4. Stop the blade when crossing gravel drives, walks or roads.
5. After striking a foreign object, stop the engine (motor), remove the wire from the spark plug (or disconnect battery wire if so equipped), thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

6. If the mower should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
7. Stop the engine (motor) whenever you leave the mower, before cleaning the mower housing, and when making any repairs or inspections.
8. When cleaning, repairing, or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the plug (or disconnect battery wire if so equipped) to prevent accidental starting.
9. Do not run the engine indoors; exhaust fumes are dangerous (containing CARBON MONOXIDE, an ODORLESS and DEADLY GAS).
10. Shut the engine (motor) off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging chute.
11. Mow across the face of slopes; never up and down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
12. Give your complete and undivided attention to the job at hand while mowing.
13. Never operate the mower without proper guards, plates, or other safety devices in place.
14. Keep washout ports and other mower-housing openings closed when mowing.
15. Always flush clippings from underside of mower housing and around drive elements after each use.

### 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 mower is in safe working condition.
3. Never store the mower with fuel in the tank inside 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 grass catcher bag frequently for deterioration and wear and replace worn bags. Check that replacement bags comply with original manufacturer's recommendations or specifications.

### NOTICE

This mower is equipped with a Flywheel Stop/Brake that complies with the Consumer Product Safety Commission regulations. The **BLADE MUST STOP** within 3 seconds when control bar is released. If engine and blade do not stop within 3 seconds, have engine checked by nearest Engine Authorized Service Dealer.

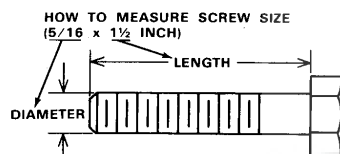
### OWNER'S INFORMATION

Record the following information about your unit so that you will be able to provide it in case of loss or theft.

MODEL NUMBER:     -     (Enter complete 8 digit model number from model plate on unit)  
PURCHASE DATE:  /  /  CODE NO.  SERIAL NO.   
DEALER'S NAME AND ADDRESS   
CITY  STATE  TELEPHONE

## CONTENTS OF SHIPPING CARTON

- 1 - Self-Propelled Rear Bagging Rotary Mower
- 1 - Engine Manual
- 1 - Owner's Manual
- 1 - Upper Handle
- 1 - Lower Handle
- 1 - Handle Panel
- 1 - Traction Control Cable
- 1 - Traction Control Handle
- 1 - Engine Control Handle
- 1 - Pivot Rod
- 1 - Rear Deflector
- 1 - Rear Deflector Support
- 1 - Grass Catcher Mounting Frame
- 1 - Grass Catcher Top
- 1 - Grass Catcher Bottom
- 1 - "U" Shaped Bracket
- 1 - Battery Assembly
- 1 - Battery Charger
- 1 - Bag of Grass Catcher Mounting Parts Containing:
  - 8 -  $\frac{1}{4}$  x  $\frac{5}{16}$  inch Slotted Head Screws
  - 8 -  $\frac{1}{4}$  inch Keps Nuts (star washer attached)
  - 3 -  $\frac{5}{16}$  inch Plastic Fasteners
- 1 - Bag of Switch Parts Containing:
  - 1 - Switch
  - 1 - Switch Holder
  - 2 - Keys
  - 1 - No. 10 x  $1\frac{1}{2}$  inch Screw
  - 1 -  $\frac{5}{8}$  inch Hex Nut
- 4 - Bags of Assembly Parts Containing:
  - 4 - Knobs (height adjust levers)
  - 4 - Hub Caps
  - 1 - Cable Guide
  - 1 - Cable Pulley
  - 1 - Cable Retaining Bracket
  - 1 - Spacer
  - 2 - Tee Knobs
  - 5 - Cable Tie Straps
  - 1 - Rope Guide
  - 2 -  $\frac{3}{32}$  inch Cotter Pins
  - 2 - Formed (curved) Washers
  - 1 -  $\frac{5}{16}$  x  $1\frac{1}{2}$  inch Curved Head Carriage Bolt
  - 1 -  $\frac{1}{4}$  x  $1\frac{3}{4}$  inch Hex Head Screw
  - 2 -  $\frac{1}{4}$  x  $1\frac{1}{2}$  inch Hex Head Screws
  - 1 - No. 10 x  $1\frac{1}{2}$  inch Round Head Screw
  - 4 - No. 10 x  $1\frac{1}{4}$  inch Round Phillips Head Screws
  - 2 -  $\frac{5}{16}$  inch Hex Nuts
  - 2 -  $\frac{5}{16}$  inch Push Nuts
  - 1 -  $\frac{1}{4}$  inch Keps Nut (star washer attached)
  - 2 -  $\frac{1}{4}$  inch Locknuts
  - 1 - No. 10 Hex Nut
  - 4 - No. 10 Keps Nuts (star washer attached)
  - 2 -  $\frac{11}{32}$  inch Flatwashers
  - 1 -  $\frac{9}{32}$  inch Flatwasher
  - 4 -  $\frac{13}{64}$  inch Flatwashers



## TOOLS REQUIRED FOR ASSEMBLY

- 2 -  $\frac{7}{16}$  inch Wrenches (or adjustable wrenches)
- 1 -  $\frac{3}{8}$  inch Wrench (or adjustable wrench)
- 1 -  $\frac{9}{32}$  inch Wrench (or adjustable wrench)
- 1 - Pair Pliers (or locking pliers)
- 2 - Screwdrivers (1 phillips) (1 regular)
- 1 - Hammer (plastic or rawhide preferred)

## **⚠ DANGER ⚠**

This Rotary Mower can be dangerous if used carelessly.

Read Owner's Manual thoroughly before operating Rotary Mower.

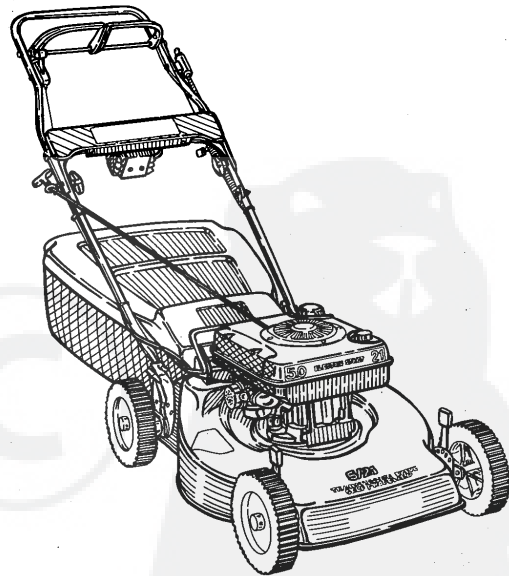
Always wear safety glasses or eye shields while assembling or operating Rotary Mower.

The cutting blade (under main frame) moves at a high speed and will sever fingers, hands or feet if they come in contact with moving blade.

The cutting blade is turning any time engine is running (or being cranked).

Keep hands, feet, hair and loose clothing away from underside of mower, discharge chute, drive belt or any other moving part on Rotary Mower.

DO NOT allow children or young teenagers to operate or be near Rotary Mower while it is operating.



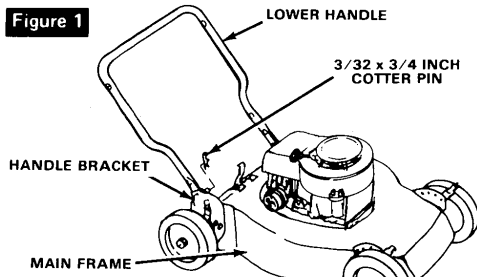
Your mower is right hand or left hand as you face the mower from the operator position.

## ASSEMBLY

### LOWER HANDLE ASSEMBLY

1. Place lower handle (figure 1) between handle brackets on rear of main frame. Place holes in lower ends of handle over studs on inside of handle brackets.
2. Secure lower handle to handle bracket studs with two 3/32 x 3/4 inch cotter pins.

**Figure 1**

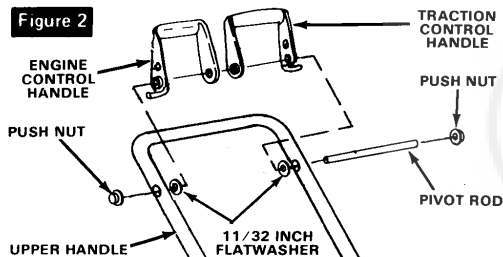


### UPPER HANDLE ASSEMBLY

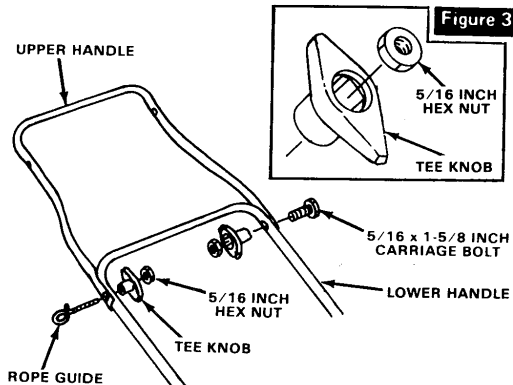
The TRACTION and ENGINE control handles are identified by printing on top side of handles. The TRACTION control cable (loose in carton) attaches to shift lever on mower deck. The ENGINE control cable is attached to the engine.

1. Drive a 5/16 inch push nut onto one end of pivot rod (figure 2). Start other end of rod through top hole of upper handle, right side.
2. Place a 11/32 inch flatwasher onto rod on inside of upper handle. Place engine control handle onto rod so that lettering on top side is visible from operator position behind mower.
3. Push rod through engine control handle and install traction control handle (figure 2) on left side with lettering visible from operator position behind mower. **NOTE:** Tabs on bottom outside edges of handles must be on underside of upper handle.
4. Place a 11/32 inch flatwasher onto pivot rod between traction control handle and left inside of upper handle. Push pivot rod through left side of upper handle. Secure by driving another 5/16 inch push nut onto rod.

**Figure 2**



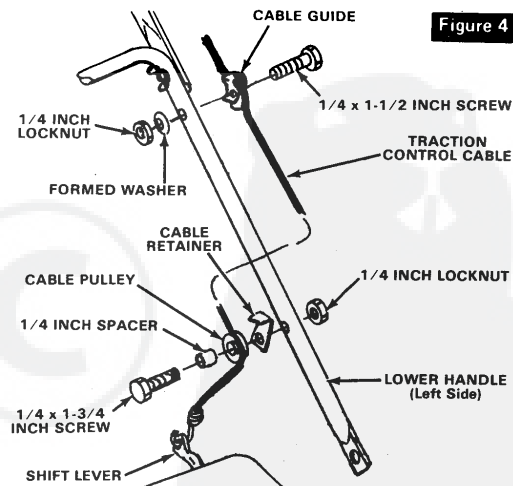
5. Place a 5/16 inch hex nut into hex shaped hole in top of each tee knob as shown in figure 3 insert.
6. Attach upper handle to lower handle (as shown in figure 3) with a rope guide on right side (left side if you are left handed), a 5/16 x 1 5/8 inch curved head carriage bolt on left side and two tee knobs with 5/16 inch hex nuts installed. **NOTE:** Install tee knobs on inside of handle and tighten carriage bolt and tee knob only. Leave rope guide loose.



**Figure 3**

### CONTROLS ASSEMBLY

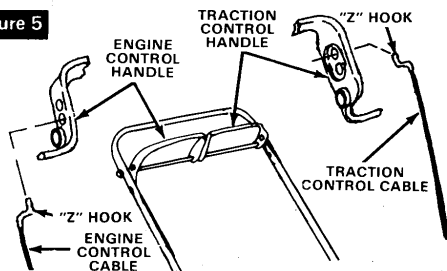
1. Place spacer, cable pulley and cable retainer onto a 1/4 x 1 3/4 inch hex head screw and secure to left inside of lower handle (figure 4) with a 1/4 inch locknut. **NOTE:** Do not tighten until traction control cable is in place.
2. Hook spring end of traction control cable into hole in shift lever extending from left rear of mower housing.
3. Place traction control cable over top of pulley on left handle and under cable retainer. Tighten screw and nut left loose in step 1 above.
4. Place cable guide (figure 4) onto traction control cable and attach guide to upper hole in left lower handle (on outside of handle) with a 1/4 x 1 1/2 inch hex head screw, formed washer and a 1/4 inch locknut.



**Figure 4**

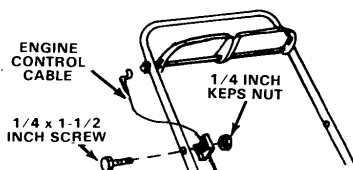
5. Hook "Z" hook end of traction control cable (figure 5) into top of two holes (from outside in) in traction control handle (left side).
6. Hook "Z" hook end of engine control cable (figure 5) into bottom of two holes (from outside in) in engine control handle (right side).

**Figure 5**



7. Attach engine control cable to upper handle right side (as shown in figure 6) with a  $\frac{1}{4} \times 1\frac{1}{2}$  inch screw and a  $\frac{1}{4}$  inch keps nut.

**Figure 6**

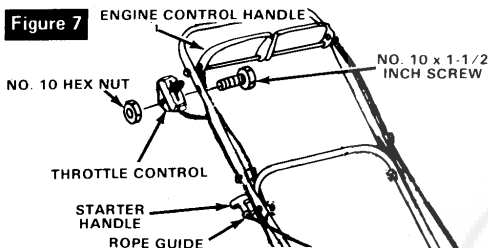


8. Place a No. 10 x  $1\frac{1}{2}$  inch round head screw through lower of two upper holes in upper handle right side then through throttle control (figure 7). Secure with a No. 10 hex nut.

9. Squeeze engine control handle down against upper handle and slowly pull starter handle out far enough to thread starter rope into rope guide (figure 7). **NOTE:** The starter rope on your mower may have excess rope wound around handle and covered with a throw-away plastic cover.

10. After installing starter rope into rope guide, tighten tee knob on rope guide. **NOTE:** Open end of loop in rope guide must be pointing toward top of handle.

**Figure 7**



11. Plug end of wire harness assembly into switch assembly (insert figure 8).

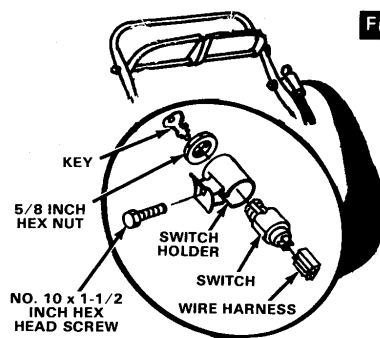
12. Place starter switch (threaded end first) into large opening of switch holder (insert figure 8) and secure with a  $\frac{5}{8}$  inch hex nut.

13. Attach switch assembly to lower of two holes in upper handle left side with a No. 10 x  $1\frac{1}{2}$  inch hex head screw (figure 8).

14. Attach throttle and engine control cables to lower handle right side with a cable tie strap (figure 9). Thread pointed end of strap through other (square) end of strap and pull tight. **NOTE:** One side of tie strap is rough, other side is smooth. Rough side must be on inside of loop formed when ends are put together.

15. Try to loosen tie strap. If it will loosen, it is put together with smooth side to inside of loop. Remove strap and reverse direction.

**Figure 8**



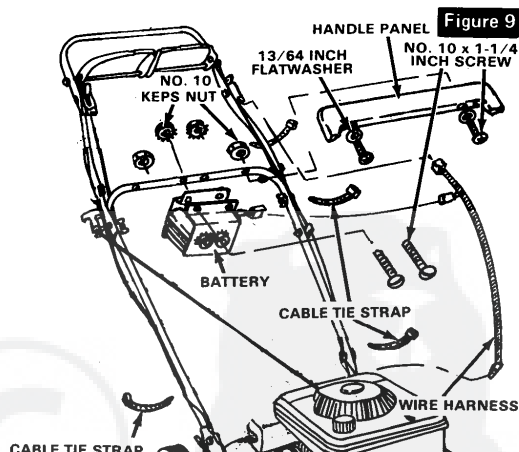
16. Attach wire harness assembly to handle left side with three cable tie straps (figure 6). Locate one tie strap low on lower handle, one high on lower handle and one on upper handle near where battery connection leaves wire harness.

17. Cut off excess tie straps.

18. Attach battery assembly (from back side) to cross piece of lower handle with two No. 10 x  $\frac{1}{4}$  inch phillips head screws (from bottom side) and two No. 10 keps nuts (figure 9). **NOTE:** Install battery with battery wire towards left side of handle.

19. Attach handle panel (figure 9) to cross piece of lower handle with two No. 10 x  $1\frac{1}{4}$  inch phillips head screws, two  $\frac{13}{64}$  inch flatwashers and two No. 10 keps nuts.

**Figure 9**



## GRASS CATCHER ASSEMBLY

Assembly of grass catcher will be easier with the assistance of a second person.

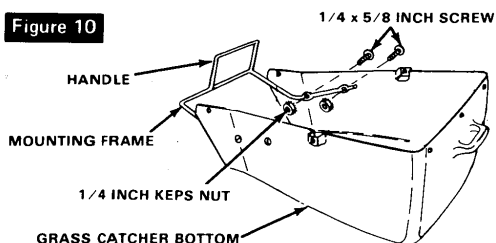
1. Place mounting frame inside grass catcher bottom (larger of two plastic pieces) as shown in figure 10 with handle up. Secure with two  $\frac{1}{4} \times \frac{5}{8}$  inch slotted head screws and two  $\frac{1}{4}$  inch keps nuts on each side. Tighten securely.

2. Place catcher top (figure 11) over catcher bottom and secure with four  $\frac{1}{4} \times \frac{5}{8}$  inch slotted head screws, four  $\frac{1}{4}$  inch keps nuts and three  $\frac{5}{16}$  inch plastic fasteners as follows:

A. Place two screws through right side of catcher top and through right side holes in catcher bottom. Secure with two keps nuts and tighten securely.

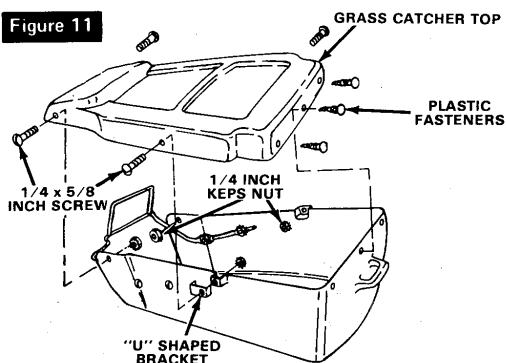


Figure 10



- B. Place "U" shaped bracket up under left side of catcher top at center of left side and place a screw through catcher top, through "U" shaped bracket and through catcher bottom. Secure with a keps nut and tighten securely. **NOTE:** "U" shaped bracket must be installed with mounting hole near bottom. When properly installed, bracket fits against top of catcher top and is not visible below edge of top.
- C. Place a screw through front left side of catcher top and through front hole in catcher bottom. Secure with a keps nut and tighten securely.
- D. Place three plastic fasteners through rear holes in catcher top and through holes in catcher bottom rear. Make sure all three fasteners are all the way in.

Figure 11



## TO ATTACH GRASS CATCHER

1. Place assembled grass catcher under lower handle with open end facing rear of mower housing.
2. Grasp handle on front end of grass catcher with one hand and opposite end of catcher with other hand. Place top of mounting frame against tabs on top of door (figure 12) and push mounting frame all the way into slots on mounting bracket until grass catcher is latched in place. **NOTE:** Grass catcher handle must be on outside of mounting bracket.
3. To remove grass catcher lift rear of catcher slightly and push release tab forward, slide grass catcher out of slots in mounting bracket.

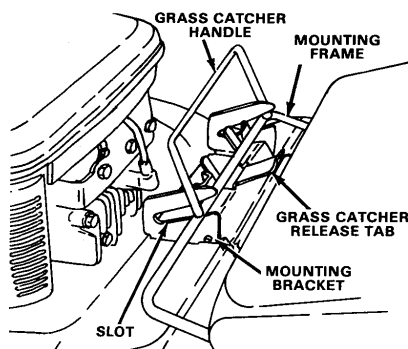
## ⚠ DANGER ⚠

This mower is not designed to be used as a mulcher. Grass catcher **MUST ALWAYS** be in place and rear door **MUST** be open when mower is operating.

## HUB CAPS

Snap a hub cap into place at center of each wheel.

Figure 12



## WHEEL HEIGHT

Place a knob from parts bag onto each wheel height lever. Tap knobs gently with a hammer until they snap onto lever so that they can not be pulled off.

**IMPORTANT:** For packaging purposes, your mower may have been shipped with wheels set in an uneven cutting position. Adjust cutting height as instructed in **Cutting Height Adjustment** paragraph in **Adjustment** section of this manual.

## TO SERVICE BATTERY

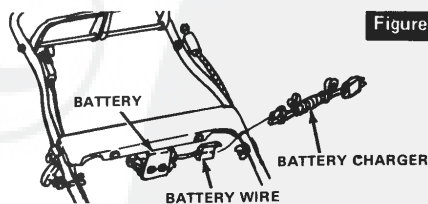
For best battery life, it is recommended that battery be charged overnight before being used. Engine can be started with recoil starter if charging is not performed.

1. Attach battery charger to battery wire (figure 13) and plug charger into 110V AC (household) outlet.
2. Charge battery overnight (or 6 to 8 hours). **NOTE:** Any time mower is not used for 30 days or more, repeat overnight charging.
3. Remove charger from household outlet and remove charger wire from battery.
4. Connect battery wire to engine wire (figure 13). **NOTE:** Be sure to push connectors (plugs) all the way together.

## ⚠ DANGER ⚠

This mower is equipped with a 12 volt battery but **CAN NOT** be jump started with an automotive type system. Attempting to jump start this mower could cause battery to explode.

Figure 13



## TO SERVICE ENGINE

1. Check to make sure spark plug wire is attached to spark plug.
2. Check to make sure battery wire, engine wire, and starter switch are connected to wire harness.
3. Fill engine crankcase with oil. See **Engine Operation and Maintenance Manual** for proper procedure.

4. Fill gas tank with clean, fresh lead-free gasoline with a minimum rating of 77 octane. Low lead or regular grade leaded gasolines are acceptable. **Do Not mix oil with gasoline.** Be certain container is clean and free from rust or other foreign particles. Never use gasoline that may be stale from long periods of storage in the container.

## ⚠ DANGER ⚠

Never fill the fuel tank while the engine is running or hot. Immediately wipe off any spilled gasoline before attempting to start engine.

## PRE-USE CHECK, TRACTION CONTROL

Traction control **MUST** be checked before fuel has been added to engine.

Squeeze and release traction control handle several times while pulling mower backwards.

Rear wheels should slide when traction control handle is squeezed and roll free when handle is released.

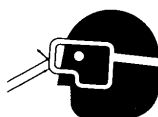
Squeezing and releasing traction control handle while pulling mower backwards should loosen new part in transmission.

## ⚠ DANGER ⚠

DO NOT operate this mower without the rear deflector and entire grass catcher in place.

## OPERATION

The operation of any rotary 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 while operating a rotary mower. We recommend standard safety glasses or Wide Vision Safety mask for over spectacles.



Get to know your rotary mower and its controls. Be sure you (or any other operator) have read and understood the **Operational Precautions** listed on page 2 of this manual.

### MOWER CONTROLS

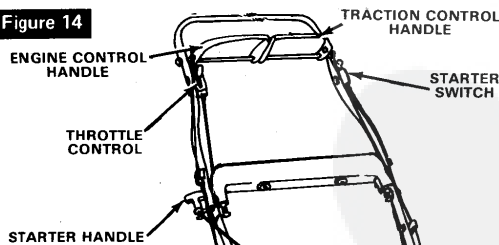
Figures 14 and 15 show the operating controls. The controls and their functions are as follows:

- **Throttle Control** - This mower is equipped with a handle mounted throttle control lever.
- **Starter Switch** - This mower is equipped with a handle mounted key operated starter switch.
- **Starter Handle** - This mower is equipped with a handle mounted recoil starter.
- **Engine Control Handle** - Stops engine if operator releases handle and moves away from operators position. Must be pulled back.. and held against upper handle to allow engine to be started and run.
- **Traction Control Handle** - Used to engage and disengage self-propelling mechanism. Pull handle back against upper handle to engage self-propelling mechanism. Release handle and self-propelling will stop.

## ⚠ DANGER ⚠

Never start engine with traction control lever in engaged position.

Figure 14



- **Cutting Height Adjustment Levers** - Used to change cuttings. Each wheel is attached to a lever that adjusts to five different heights. All four wheels should always be adjusted to same height. See **Cutting Height Adjustment** paragraph in **Adjustment** section for further information.

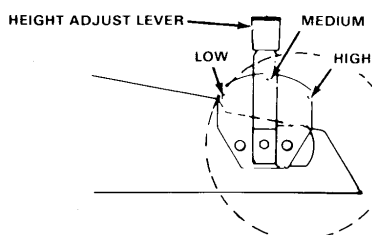


Figure 15

### TO START ENGINE

This mower was shipped with **NO OIL** in the engine. **Be sure** that oil has been added before starting engine. Check engine oil before each use and add oil as required. To start engine, proceed as follows:

## ⚠ DANGER ⚠

When engine is turning (while cranking) or running, blade is also turning. Keep feet away from underside of mower.

1. Open fuel shut-off valve if engine is so equipped. The engine may also be equipped with a pre-start primer. See **Engine Operation and Maintenance Manual** for proper use of these controls.
2. Move throttle lever to START position.
3. Squeeze engine control handle down against upper handle and hold.
4. Turn key switch clockwise to crank engine. **NOTE:** Pull recoil starter if battery is low.
5. When engine starts, release key, move throttle lever to desired speed. **NOTE:** Mower should be operated at or near full (fast) throttle for proper discharge of grass clippings.
6. To stop engine, release control bar.

**⚠ DANGER ⚠**

**NEVER** run engine indoors or in enclosed, poorly ventilated areas. Engine exhaust contains **CARBON MONOXIDE**, an **ODORLESS** and **DEADLY GAS**.

**Keep hands, feet, hair and loose clothing away from any moving parts on engine or rotary mower.**

**WARNING** - Temperature of muffler and nearby areas may exceed 150° F. Avoid these areas.

**GRASS CATCHING TIPS**

**ALWAYS** install grass catcher before starting engine. Attach grass catcher to mower as instructed in **Assembly** section of this manual.

To lessen clogging of mower housing, avoid cutting wet grass. Cut tall grass at maximum height-of-cut setting and empty catcher often. Grasp handles on front and rear of catcher. Lift rear of catcher slightly and push release tab forward, slide catcher out of slots in mounting bracket. Remove catcher from under handle. Dump catcher contents by tilting open end down and shaking lightly until all clippings sift out.

Push out any clippings that may be plugging the vent areas along each side of catcher top (between top and bottom sides).

**⚠ DANGER ⚠**

**ALWAYS** shut off engine before removing grass catcher. **DO NOT** restart engine until grass catcher has been installed.

**LAWN CARE AND MOWING TIPS**

The engine should be run at full speed. Avoid mowing up and down slopes to prevent the possibility of slipping and falling toward mower or having mower roll back onto you.

To mow heavy growth or on rough ground, set mower at maximum height-of-cut for first cutting. Reduce cutting height as desired and mow area a second time.

Height-of-cut should not be set too low on thick, lush lawns or grass may die. If height is too low, the wheels may sink into the lawn, causing the housing to drop on the grass and reduce the discharging effect of the cutting blade. New grass should be cut in the afternoon when it is dry. Wet grass will pack inside the mower housing and not fill catcher properly.

**CAUTION**

**Flush clippings from underside of mower housing and from inside grass catcher after each use.**



## ADJUSTMENTS

### **⚠ DANGER ⚠**

Always disconnect spark plug wire and hook wire into "V" slot in engine before making any adjustments or repairs.

### CUTTING HEIGHT ADJUSTMENT

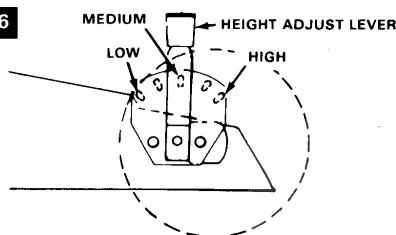
Your mower may have been shipped with cutting height set at uneven setting. Medium height is recommended for most lawns.

The cutting height adjustment consists of four quick-change height adjust levers on which the wheels are mounted. There are five different height settings available which represent a range of cuts from a low of approximately 1 3/8 inches to a high of approximately 3 1/4 inches. **These cutting heights are approximate and may vary depending upon soil conditions, height and type of grass being mowed.** Each notch on the brackets makes a change of about 1/2 inch in height from the preceding notch. To adjust cutting height proceed as follows:

Pull out on any of the height adjust levers and rotate it to the notch representing the height desired. Move the other three levers to a corresponding notch and the change is complete. **NOTE: It is important that you make sure all four levers are located in a corresponding notch or the mower will cut uneven.**

Figure 16 shows the location of the high, medium and low positions on the right front wheel. **NOTE: Front and rear levers work in reverse of each other. For a higher cut, you move the front wheel levers toward front of mower and the rear wheel levers are moved toward rear of mower.**

Figure 16

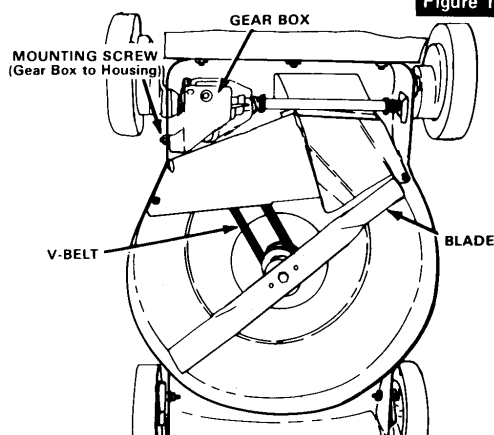


### DRIVE BELT ADJUSTMENT

The drive belt on this mower may stretch with use and need to be adjusted as follows:

1. Disconnect spark plug wire and place away from plug.
2. Loosen screw (figure 17) that holds gear box to left side of mower housing.
3. Push up on gear box to tighten belt.
4. Retighten loosened screw.
5. Reconnect spark plug wire.

Figure 17



## MAINTENANCE

### DRIVE BELT REPLACEMENT

This mower uses a v-belt that is made of special compounds. If belt becomes worn or breaks, replace with an **original equipment v-belt** (refer to **Repair Parts** section of this manual). **NEVER USE A SUBSTITUTE.** To replace belt:

1. Disconnect spark plug wire and place away from plug.
2. Remove gas from gas tank or seal tank by removing cap, covering tank opening with a piece of plastic (such as kitchen wrap) and reinstall gas cap.
3. Remove grass catcher.
4. Stand mower on front end and brace so it doesn't fall over.
5. Remove screw (figure 17) in left side of mower housing that holds gear box in place.
6. Rotate gear box down to allow old belt to be removed.
7. Install new belt over blade and around pulley above blade.
8. Install new belt around pulley on gear box and reinstall removed screw (do not tighten).
9. Push up on gear box until belt is snug. Tighten screw.
10. Return mower to operating position and reinstall grass catcher and reconnect spark plug wire.
11. Remove seal from gas tank and/or refill gas tank.

## BLADE REPLACEMENT

Rotary mower blade should be sharp and well-balanced to cut smoothly. Blade should have the correct amount of "lift" for proper cutting and discharge of clippings. Lift is created by upturned blade ends (opposite side of cutting edge). As the cutting edge of the blade wears, upturned ends also wear, decreasing the lift of the blade, resulting in low cutting efficiency. Because of this, resharpening of the blade will not help much. It is recommended that the blade be replaced. When replacing blade, be sure all parts are assembled in proper order (see **Repair Parts** diagram) or vibration may occur. **To remove blade:**

1. Disconnect spark plug wire and remove grass catcher.
2. Remove gas from gas tank or seal tank by removing cap, covering tank opening with a piece of plastic (such as kitchen wrap) and reinstalling gas cap.
3. Lift right side of mower and stand mower on left side.
4. Place a board between blade and inside of main frame (as shown in figure 18) and with a wrench remove blade screw by turning screw counter-clockwise. **NOTE:** Your mower may be equipped with a lock screw on both sides of blade mounting screw. If so equipped, these screws must be removed.

### **⚠ DANGER ⚠**

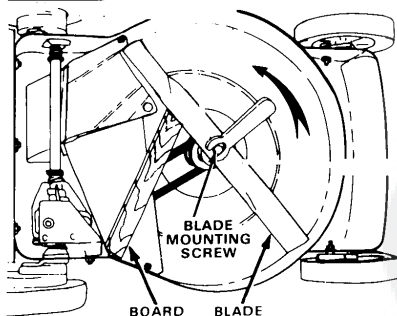
DO NOT handle blade with bare hands. Wear gloves or wrap blade with newspaper or other material while removing or reinstalling blade.

5. Install new or sharpened blade **NOTE:** Be sure all parts are reassembled in proper order (see **Repair Parts** diagram) or severe vibration will occur. Upturned (or bent tip) edges of blade must be turned up, toward main frame, or blade will not cut.
6. Tighten blade mounting screw securely. We recommend a 10 inch wrench or a torque wrench. If a torque wrench is used, torque blade mounting screw to between 30 and 35 foot pounds. **NOTE:** Be sure to reinstall lock screws if so equipped.
7. Return mower to operating position and remove seal from gas tank cap and/or refill gas tank.
8. Reconnect spark plug wire.

### **CAUTION**

If blade is resharpened, be sure it is properly balanced (grind both ends equally). Failure to do so may result in engine vibration, loss of power, or possible engine damage.

Figure 18



## TO CHANGE CRANKCASE OIL

The crankcase oil should be changed after first 5 hours of operation and every 25 hours thereafter. Check oil level before each use and add oil as required.

1. Disconnect spark plug wire and place away from plug.
2. Remove gas from gas tank or seal tank by removing cap and covering tank opening with a piece of plastic (such as kitchen wrap) and reinstalling gas cap.
3. Place a suitable container on oil fill cap side of mower.
4. Remove oil fill cap.
5. Lift and tilt mower toward oil fill cap side of engine to drain oil into container.
6. Return mower to operating position and refill crankcase as instructed in **Engine Operation and Maintenance Manual**.
7. Reinstall oil fill cap and tighten securely.
8. Remove seal from gas tank cap and/or refill gas tank.
9. Reconnect spark plug wire and reinstall grass catcher.

## AIR FILTER MAINTENANCE

The air filter should be cleaned every 25 hours of operation under normal operating conditions, more often under dusty conditions. To clean air filter, proceed as instructed in **Engine Operation and Maintenance Manual**.

### **CAUTION**

Never run the engine without the air cleaner element installed. A defective air cleaner can result in loss of engine power and can create excessive wear or damage to engine components if dirt or dust is permitted to enter engine through the carburetor. A damaged air cleaner, or one that is clogged with dust or dirt should be replaced immediately.

## BATTERY MAINTENANCE

The battery on this mower requires no maintenance except an occasional charging during the off season (see **Storage** section).

The engine charging system will keep the battery full charged during the mowing season. The only times charger should be needed is at first start, beginning of each season and during off season.

## STORAGE

The mower should be immediately prepared for storage at the end of the season or if the mower is to be un-used for 30 days or more.

### HANDLE STORAGE

The handle on this mower can be folded down over engine for storage or transportation purposes. **CAUTION:** To prevent damage to controls, fold slowly and closely watch cables so that they do not become kinked or tangled.

1. Remove grass catcher.
2. Loosen tee knobs on screws that secure upper handle to lower handle.
3. Push upper handle back and down. **NOTE:** Never fold upper handle forward.
4. Push in on lower ends of lower handle to release from notches in handle brackets and push handle forward over the engine.

To return handle to operating position, proceed as follows:

1. Squeeze engine control handle against upper handle and lift handle to operating position. **NOTE:** Engine brake will not allow starter rope to move unless engine control handle is squeezed. **Make sure both sides of lower handle snap back into operating position notches in mounting brackets.**
2. Raise upper handle to proper position and tighten tee knobs securely.

### ENGINE STORAGE

Gasoline, if permitted to stand un-used for extended periods (30 days or more), may develop gummy deposits which can affect the engine, carburetor and cause engine failure. To avoid this condition, proceed as follows:

1. Prior to shut-down for 30 days or more, drain gas tank.
2. Run engine until gas tank is empty and engine stops due to lack of fuel.
3. Remove spark plug and pour one (1) ounce of engine oil through spark plug hole into cylinder. Crank engine several times to distribute oil. Reinstall spark plug.

### **⚠ DANGER ⚠**

Never store engine with fuel in tank indoors or in enclosed, poorly ventilated enclosures, where fuel fumes may reach an open flame, spark or pilot light as on a furnace, water heater, clothes dryer, etc.

Handle gasoline carefully. It is highly flammable and careless use could result in serious fire damage to your person and/or property. Drain fuel into an approved container outdoors, away from open flame.

### MOWER STORAGE

1. Clean the mower thoroughly.
2. Inspect the mower for worn or damaged parts. Tighten any loose screws and nuts.
3. Store the mower in a protected area and cover for additional protection.
4. Store mower in wheels down, operating position. If mower is stored in any other position, oil from crankcase could enter cylinder head, causing a service problem.

### BATTERY STORAGE

1. A discharged battery will freeze and may burst. If possible, place mower in a cool, above freezing, dry area. Charge battery overnight every 30 days.
2. Charge battery overnight at beginning of next season.

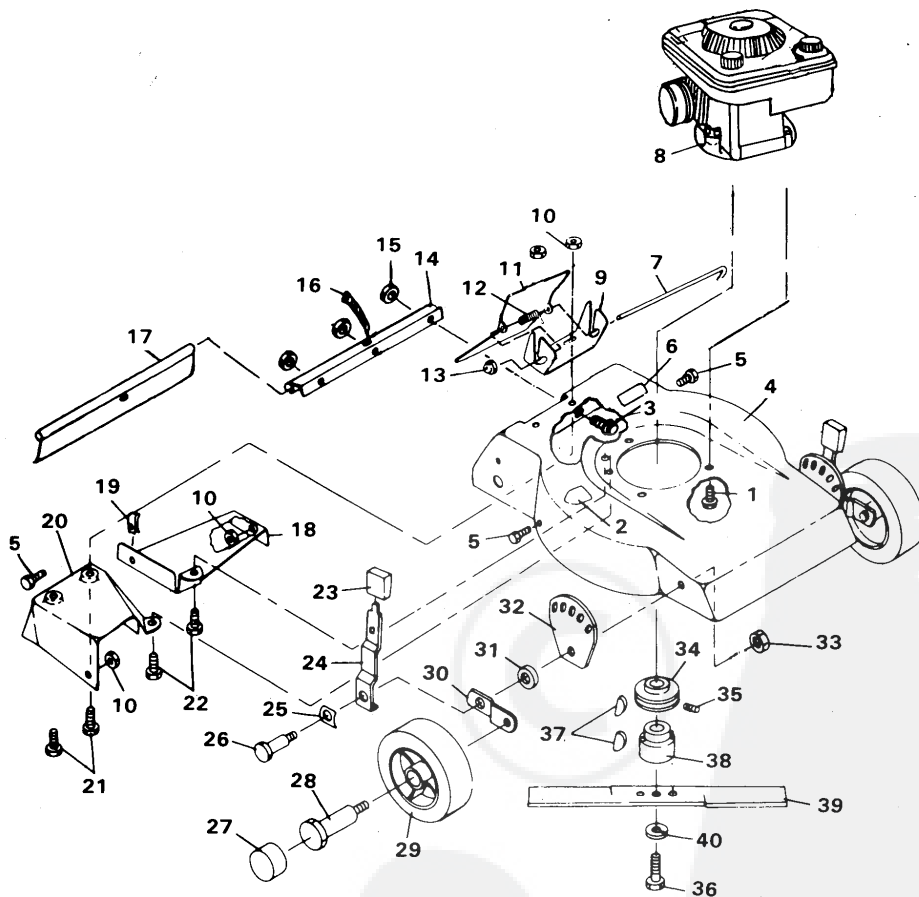
A yearly check-up or tune-up by a qualified repairman is a good way of being sure that your mower will provide maximum performance next season.

## REPAIR PARTS

### REAR BAGGING ROTARY MOWER MODEL 2105-61

**NOTE:** ALWAYS USE ORIGINAL EQUIPMENT PARTS. Use of service replacement parts other than original equipment parts may void your warranty.

ALL UNNUMBERED  
ITEMS ARE INTERCHANGEABLE  
WITH OPPOSITE SIDE



## REAR BAGGING ROTARY MOWER MODEL 2105-61

ALWAYS GIVE THE FOLLOWING INFORMATION WHEN ORDERING REPAIR PARTS:

1. The PART NUMBER; 2. The PART NAME; 3. QUANTITY DESIRED; 4. The MODEL NUMBER (As shown on Model Plate).

SEND PART ORDERS AS PER INSTRUCTIONS ON THE FRONT PAGE.

YOUR UNIT IS RIGHT HAND (RH) OR LEFT HAND (LH) AS YOUR STAND BEHIND IT.

DO NOT USE KEY NUMBERS WHEN ORDERING REPAIR PARTS, ALWAYS USE PART NUMBERS.

All replacement parts will be supplied in current production colors or in a neutral color.

A handling fee is applicable to small parts orders.

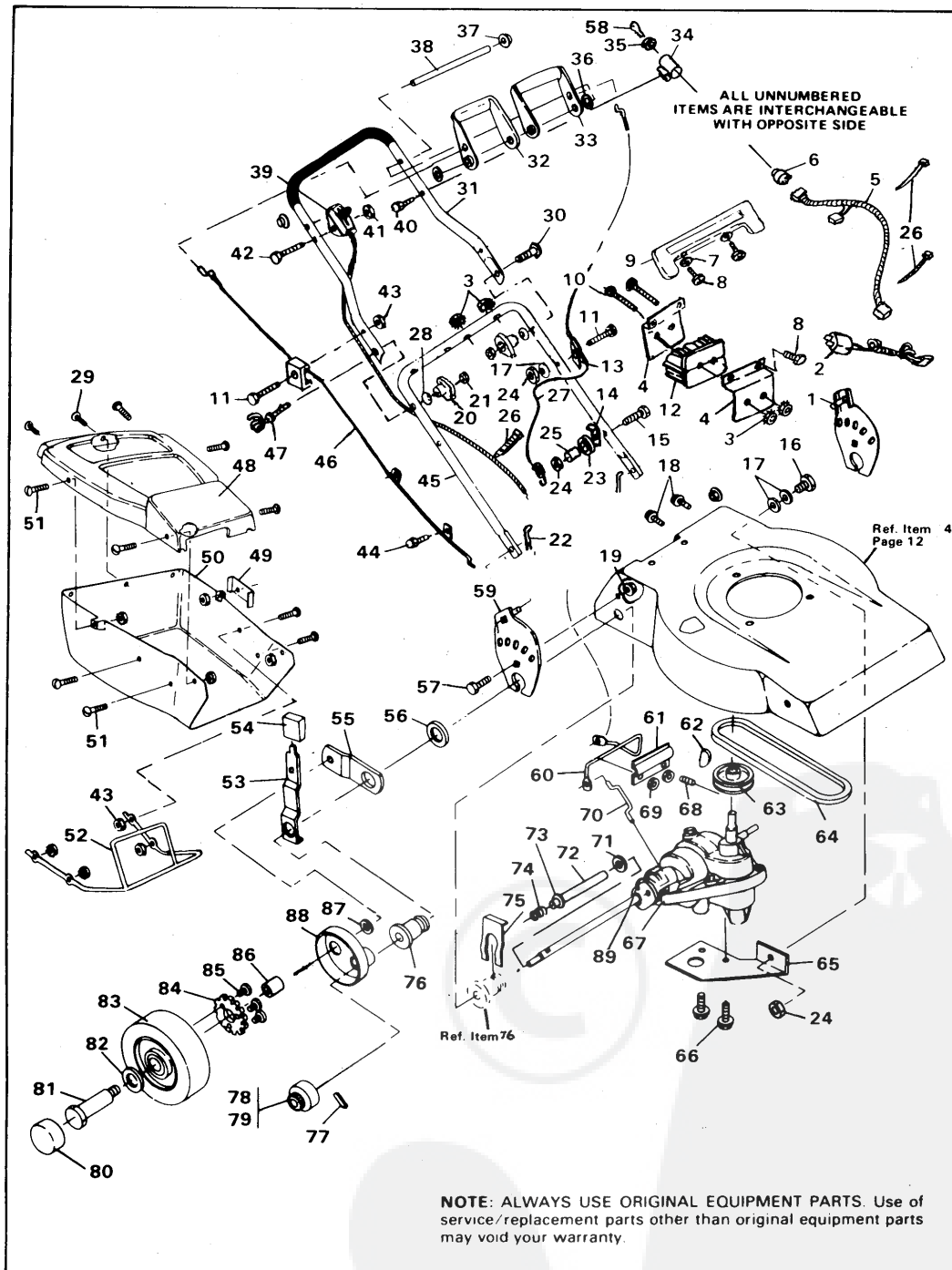
Key No.	Part No.	Description	Key No.	Part No.	Description
1	48148	Screw, Hex Wa Tap, 3/8-16 x 1 In.	22	995346	Screw, Taptite, 1/4-20 x 1/2 In.
2	68547	Decal, Warning	23	20252	Knob, Height Adjust Lever
3	274707	*Screw, Hex Ma., No. 10-24 x 1/2 In.	24	41953	Height Control Lever
4	301112	Main Frame	25	32327	Wave Washer
5	180016	Screw, Hex Hd. 1/4-20 x 1/2 In.	26	54855	Shoulder Bolt
6	70035	Decal, Danger	27	36832	Hub Cap
7	55684	Rod, Door Assembly	28	57437	Shoulder Bolt
8	Engine	~See Footnote Below	29	57721	Wheel & Tire Assembly, Front
9	57402	Bracket, Door Assembly	30	301128	Pivot Arm
10	9424215	Locknut, 1/4-20 Thd.	31	996416	Flatwasher, 25/64 In.
11	57403	Door Assembly	32	54752	Wheel Bracket
12	55685	Spring, Door Assembly	33	45171	Locknut, 3/8-16 Thd.
13	49106	Push Nut	34	52052	Pulley, 2-1/2 In.
14	55142	Support, Rear Deflector	35	102580	*Screw, Set, 5/16-18 x 1/4 In.
15	997316	Locknut, No. 10-24 Thd.	36	181643	Screw, Hex hd, 3/8-24 x 1-1/2 In.
16	57444	Tie, Cable	37	55426	Key, Hi-Pro
17	56548	Deflector, Rear	38	57206	Adaptor, Shaft
18	52123	Belt Cover	39	57208	Blade
19	48301	Speed Nut, 1/4-20 Thd.	40	120382	*Lockwasher, Split, 3/8 In.
20	52030	Rear Baffle Assembly	41	300353	Owner's Manual (Not Illustrated)
21	180020	Screw, Hex Hd, 1/4-20 x 3/4 In.			

(\*) Standard Hardware Items - May Be Purchased Locally

(~) Contact Engine Manufacturer's authorized service dealer (see Engine Manual) for parts and warranty.



# REAR BAGGING ROTARY MOWER MODEL 2105-61



# REAR BAGGING ROTARY MOWER MODEL 2105-61

Key No.	Part No.	Description	Key No.	Part No.	Description
1	57221	Bracket, Lower Handle, L.H.	46	55772	Cable, Engine Control
2	55132	Charger, Battery	47	57257	Rope Guide
3	271166	Keps Nut, No. 10-24 Thd.	48	57725	Top, Grass Catcher
4	56759	Bracket, Battery	49	55956	Bracket, Grass Catcher
5	56762	Wire Harness Assembly	50	55826	Bottom, Grass Catcher
6	56047	Switch, Ignition	51	55686	Screw, ma. Sl., No. 14-20 x 5/8 In.
7	9417373	Washer	52	57440	Frame, Grass Catcher
8	51747	Screw, Phil Pan Hd, No. 10-24 x 1-1/4 In.	53	47809	Lever, Height Adjust
9	55706	Panel, Handle	54	20252	Knob, Height Adjust Lever
10	55791	Screw, SI Rd Hd, No. 10-24 x 3 In.	55	301131	Bracket, Wheel Pivot
11	121926	*Screw, Hex Hd, 1/4-20 x 1-1/2 In.	56	47776	Spacer
12	56760	Battery	57	180018	Screw, hex Hd, 1/4-20 x 5/8 In.
13	52770	Guide, Cable	58	36285	Key, Ignition
14	52456	Bracket, Retainer	59	57222	Bracket, Lower Handle, R.H.
15	121940	*Screw, Hex Hd, 1/4-20 x 1-3/4 In.	60	52064	Rod, Clutch Actuating
16	180016	Screw, Hex Hd, 1/4-20 x 1/2 In.	61	52065	Bracket, Actuating Rod
17	120392	Flatwasher, 1/4 In.	62	35075	Key, Hi-Pro
18	274707	*Screw, Hex Wa. Ma, No. 10-24 x 1/2 In.	63	54886	Pulley
19	51335	Locknut, Wide Flange, 1/4-20 Thd.	64	55914	V-Belt
20	57171	Knob, Tee	65	52047	Bracket, Gear Box
21	120376	* Nut, Hex, 5/16-18 Thd.	66	273243	Screw, Hex Wa Hd, 1/4-20 x 3/4 In.
22	121222	Cotter Pin	67	55004	Gear Box & Axle Assembly
23	39298	Pulley, Cable	68	102580	*Screw, Set, 5/16-18 x 1/4 In.
24	9424215	Locknut, Hex, 1/4-20 Thd.	69	997316	Locknut, No. 10-24 Thd.
25	46266	Spacer	70	54897	Clip, Actuating Rod
26	57444	Tie, Cable	71	49071	Washer, Felt
27	55769	Cable, Traction Control	72	52460	Tube
28	8728	Washer, Formed	73	21681	Ring, Retaining
29	57697	Fastener	74	52457	Spring
30	56199	Screw, Curved Hd, 5/16-18 x 1-5/8 In.	75	48294	Retainer Clip
31	56274	Upper Handle	76	47778	Pivot Stud
32	55738	Engine Control Handle	77	47963	Pawl
33	55739	Traction Control Handle	78	47906	Pinion Gear, R.H.
34	56046	Holder, Ignition Switch	79	47905	Pinion Gear, L.H.
35	48140	Nut, Ignition Switch	80	36832	Hub Cap
36	120393	Flatwasher	81	52058	Shoulder Bolt
37	55776	Cap Push-On	82	3140	Washer
38	55752	Pivot Rod, Clutch Handle	83	56550	Wheel & Tire Assembly, Rear
39	57347	Throttle Control	84	52293	Gear
40	9426635	*Screw, Hex Hd, No. 10-24 x 1-1/2 In.	85	52032	Screw, Phil. Pan Hd.
41	120361	Nut, Hex, No. 10-24	86	52779	Spacer
42	54406	Screw, Rd Hd, No. 10-24 x 1-1/2 In.	87	301188	Flatwasher
43	271172	Keps Nut, 1/4-20 Thd.	88	52964	Dust Shield
44	9416939	Screw, Hex Wa Hd, No. 10-32 x 3/8 In.	89	54762	Spring
45	57439	Lower Handle Assembly			

(\*) Standard Hardware Items - May Be Purchased Locally.

SEE, CALL OR WRITE ONE OF THE FOLLOWING DISTRIBUTORS FOR PARTS FOR: HOMKO - LAWN SCOUT - AMF - TURFMASTER - DYNAMARK - OR ANY OTHER WESTERN INTERNATIONAL INCORPORATED PRODUCT.

ALABAMA	IOWA	MICHIGAN	OHIO	TEXAS
Automotive Elect. Service 415-419 Meridian St. Huntsville, AL 35801 (205) 539-2131 AL WATS 800-421-1392 *b,c,f,g,h	Bruce Engine 1829 N.W. 86th Des Moines, IA 50322 (515) 278-5151 *b,c,e,f,g,h	Air Cooled Engine Div. 1116 26th Ave. Menominee, MI 49858 (906) 863-6332 MI WATS 800-562-4825 WATS 800-334-9535 FAX (906) 863-1204 (PBX) *c,e,f,g,h	American Power Distr. 2430 Tremainsville Rd. Box 5815 Toledo, OH 43613 (419) 475-7261 FAX (419) 475-0467 (auto after 5.00 pm) *a,b,e,f,g,h	Marr Bros. Inc. 423 E. Jefferson Dallas, TX 75203 (214) 948-7387 FAX (214) 946-6259 (auto) *a,d,e,f,g,h
Warlick-Miller A/C Engine 630 N 20th St. Bessemer, AL 35020 (205) 424-8288 AL WATS 800-292-8123 MS WATS 800-292-4494 *b,c,e,f,g,h	<b>KANSAS</b> Colladay Hdwe. Co. 201 N Plum, Box 766 Hutchinson, KS 67501 (316) 663-4477 *a,d,e	The Factory Branch 440 E. Prospect Jackson, MI 49203 (517) 783-2766 *b,c,e,f,g,h	Small Engine Distr. 5250 N Dixie, Box 14481 Dayton, OH 45414 (513) 278-8241 *b,d,e,f,g,h	Midland Small Eng. Sales 106 Carlton, Box 4215 Midland, TX 79704 (915) 684-5553 *b,d,e,f,g,h
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<b>COLORADO</b> Spitzer Ind. Prod. Co. 6601 N Washington Thornton, CO 80229 (303) 287-3414 FAX (303) 287-0549 (auto) *b,c,e,f,g,h	Cayce Mill Supply Co. 505 E 1st St. Hopkinsville, KY 42240 (502) 886-3335 FAX (502) 886-3335 (PBX ext 43) *b,c,f,g,h	<b>MISSISSIPPI</b> see Bessemer, Alabama	<b>PENNSYLVANIA</b> Bluemont Co. 11101 Frankstown Road Pittsburgh, PA 15235 (412) 242-1622 PA WATS 800-344-1200 WATS 800-431-2716 FAX (412) 243-5673 (auto) *b,c,e,f,g,h	RBI Corporation 101 Cedar Ridge Rd. Lakeridge Park Ashland, VA 23005 (804) 798-1535 FAX (804) 798-2570 (auto) *b,c,f,g,h
<b>FLORIDA</b> G.L.O Products Inc. 13201 S. Belcher Rd. Largo, FL 33543 (813) 530-9723 FL WATS 800-292-4567 *c,e,h	Ellingsworth Auto Electric 1003-08 E. Broadway Louisville, KY 40204 (Serving southern Indiana) (502) 585-5055 *b,c,e,f,g,h	<b>MISSOURI</b> Gunther's Serv. & Supply 7320 Wornall Road Kansas City, MO 64114 (816) 523-1952 *a,d,e,f,g,h	Scranton Auto Ignition 1133-1135 Wyoming Ave. Scranton, PA 18509 (717) 342-8133 *b,f,g,h	<b>WASHINGTON</b> Pacific A/C Engine Inc. 7925 2nd Ave S. Seattle, WA 98108 (206) 767-2724 c,e,f,h
Radco Distributors Inc. 4909 Victor St., Box 5459 Jacksonville, FL 32207-0459 (904) 733-7957 FL WATS 800-342-1254 WATS 800-874-7738 FAX (904) 737-9575 (auto) *c,e,g,h	<b>LOUISIANA</b> United Engine Service, Inc. 11923 Cloverland Ave. Baton Rouge, LA 70809 (504) 291-2622 FAX (504) 292-2442 (auto) *c,e,f,g,h	Wilson Engine & Parts Inc. 4159 Shoreline Drive Earth City, MO 63045 (314) 739-1313 WATS 800-367-2787 FAX (314) 739-8767 (auto) *b,d,e,f,g,h	<b>SOUTH CAROLINA</b> Magneto & Elect. Service 103 Assembly St. Columbia, SC 29201 (803) 771-4044 SC WATS 800-922-1118 WATS 800-334-4832 FAX (803) 256-2727 *c,e,f,g,h	<b>WISCONSIN</b> Praefke A/C Eng. 4050 N. 128th St Brookfield, WI 53005 (414) 781-7010 *c,e,f,g,h
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Small Engine Parts 3515 Auburn St. Rockford, IL 61103 (815) 964-1754 *c,f,g,h	Kunkel Service Co. 6252 Frankford Ave Baltimore, MD 21206 (301) 377-4008 MD WATS 800-492-8886 *b,c,e,f,g,h	<b>NEW YORK</b> Loegler & Ladd Inc. 3950 Broadway, Box 214 Buffalo, NY 14225 (716) 684-0600 *c,e	Chilton A/C Engines 319 4th Ave. S., Box 150806 Nashville, TN 37201 (615) 254-1634 FAX (615) 242-6618 (auto) *b,c,e,f,g,h	<b>CANADA</b> Canadiana Outdoor Prod., Inc. 155 Orenda Rd. Brampton, Ontario L6W 1W3 (416) 457-1433 *i
<b>INDIANA</b> Thompson Sales & Serv. 2400 W. Ridge Road Gary, IN 46408 (219) 980-3282 FAX (219) 980-3283 (PBX) *c,e,f,g,h	<b>MASSACHUSETTS</b> Morton B. Collins Co. 300 Birnie Ave. Box 70058 Springfield, MA 01107 (413) 732-7449 *c,e,g,h	Dixie Sales Co. Inc. 335 N Greene, Box 1408 Greensboro, NC 27402 (919) 274-0490 WATS 800-438-1069 FAX (919) 274-2758 (auto) *b,c,e,f,g,h	Ace Distr. Inc. 2103 E. Magnolia Ave. Box 3577 Knoxville, TN 37917 (615) 524-5359 TN WATS 800-332-9904 *c,e,f,g,h	

Rev. 1/20/88

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(g) Tecumseh/Peerless  
dealer or distr.  
(h) Foote dealer or  
distributor  
(i) Dealer sales only,  
contact for closest dealer.