OWNER'S MANUAL

36" - 11H.P. RIDING MOWER

MODEL 3560-5600

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, except the battery which is warranted for ninety (90) days from date of purchase.

This warranty does not cover engine, transmission, transaxle or differential (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 1-800-247-7464 (outside Iowa), 1-515-265-3461 (Iowa).
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 merchantibility 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. 62849 4985

Price $2.00 Printed in U.S.A.

OPERATIONAL PRECAUTIONS

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

It is **important** when using your **Riding Mower** that certain precautions be taken to **prevent injury or damage.** Please read the following list of precautions before you assemble or use your **Riding Mower.**

1. Know the controls and how to stop quickly. Read the Owner's Manual. Wear safety glasses or eye shields when assembling or operating unit.

2. Disengage all attachment clutches, shift to neutral, and set parking brake before attempting to start the engine. Unless these steps are followed, the engine will not start because of safety interlock or lockouts. When starting engine equipped with a pull starter, stand firm and make sure your feet are well away from the blade(s).

3. When using vehicle with mower:

   A. Do not operate this mower without either the chute deflector or an entire grass catcher in place.

   B. Mow only in daylight or good artificial light.

   C. Never make adjustments while engine is running.

   D. Shut engine off when removing grass catcher and/or unclogging chute.

   E. Do not operate mower when barefooted. Always wear substantial footwear, preferably steel-toed shoes. Do not wear loose fitting clothing that could get caught in any moving parts.

   F. Always keep clear of discharge chute or any moving parts while engine is running.

4. Always place blade control lever in disengaged position when not cutting grass, such as crossing a gravel driveway or road and when transporting the mower.

5. Disengage power to attachments, stop engine, remove ignition key, and set parking brake before leaving operator position. Always dismount from the left side.

6. Handle gasoline with care; it is highly flammable.

   A. Use only approved gasoline containers.

   B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline immediately.

   C. Check your fuel supply before each use allowing space for expansion as the heat of the engine and/or sun can cause gasoline to expand.

   D. Never store gasoline or equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Never store your mower for prolonged periods (more than 30 days) with gasoline in the tank. Store gasoline and your mower in a locked safe storage area secure from children and others.

7. Allow engine to cool before storing in any enclosure.

8. To reduce fire hazard, keep engine free of grass, leaves, or excessive grease.

9. Do not allow children to operate the mower. Never allow adults to operate it without proper instructions.

10. Never carry passengers. Their safety, as well as yours, may be in danger. Do not allow others, including children and pets in the area while operating the mower. Be especially watchful for children and passersby. Place the blade control lever in a disengaged position and stop the engine while others are in the vicinity of the mower.

11. Never direct discharge of material toward bystanders or allow anyone near the vehicle while in operation.

12. Clear work area of objects which may be picked up and discharged by the mower. (These include rocks, stones, wires, cans, boards, branches, bones, and other foreign objects).

13. Vehicles and attachments should be stopped and inspected for damage if vibration develops or after striking a foreign object. Any damage should be repaired before restarting and operating the equipment.

14. Stay alert for holes in terrain and other hidden hazards. Exercise care when mowing around fixed objects in order to prevent blade(s) from striking it. Never deliberately run over any foreign object. Always disengage blade control before attempting to remove the mower from a hole or other obstruction.

15. Keep all nuts, bolts and screws tight to be sure equipment is in safe working condition. Check blade mount nuts or bolts for proper tightness at frequent intervals.

16. Check all controls for proper function. Keep vehicle and attachments in good repair and keep safety devices in place.

17. Disengage power to attachments, stop engine, remove ignition key, set parking brake and disconnect spark plug wire before working on any part of the mower or making any adjustments.

18. Do not change engine governor settings or overspeed engine.

19. Check grass catcher bag (if so equipped) frequently for wear and/or deterioration. Replace with new bag for protection.

20. Do not stop or start suddenly, especially when going uphill or downhill. Mow slowly when on slopes and mow up and down the slope, never across it. On slopes, be very cautious and avoid sharp turns to prevent tipping or loss of control. Exercise caution when changing direction on slopes. Never operate your lawn mower in wet or slippery grass where direction is unsure or at a speed which could cause a skid. Avoid shifting gears on an incline whenever possible. If necessary, be sure brake is applied when shifting.

21. Disengage mower blades before backing up. Carefully check area behind mower for children or pets before backing up.

22. Watch for traffic when crossing or near roadways.

23. Do not run the engine indoors. Open doors if engine is run in garage. Exhaust fumes contain carbon monoxide, an odorless and deadly gas.

24. Use care when pulling loads or using heavy equipment. Do not overload carry-all box (if so equipped).

   A. Use only approved drawbar hitch points.

   B. Limit loads to those you can safely control.

   C. Do not turn sharply. Use care when backing.

   D. Never shift gears to reverse your direction until the mower comes to a complete stop. Do not operate your mower with the parking brake engaged.

25. Take all possible precautions when leaving the vehicle unattended, such as lowering and disengaging the power to attachments, shifting into neutral, setting the parking brake, stopping the engine, and removing the key.

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: 3560-5600

PURCHASE DATE: ___/___/___ CODE NO. _____ SERIAL NO. _____

DEALER'S NAME AND ADDRESS _____

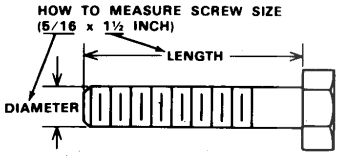
CITY _____ STATE _____ TELEPHONE _____

⚠ WARNING ⚠

This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered, 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. See your authorized Engine Service Dealer for proper spark arrester muffler for the engine on your unit.

CONTENTS OF SHIPPING CARTON

1 - 36 inch Riding Mower
1 - Steering Wheel (with roll pin partially installed)
1 - Engine Manual (English)
1 - Engine Manual (French)
1 - Owner's Manual (English)
1 - Owner's Manual (French)
1 - Seat
1 - Bag of Assembly Parts Containing:
  1 - Trough (oil drain)
  1 - Battery Hold-Down Bracket
  1 - Bag of Battery Hold-Down Parts Containing:
    2 - ¼ inch Split Lockwashers
    2 - ¼ inch Hex Nuts
    2 - 9/32 inch Flatwashers
  1 - Bag of Battery Cable Parts Containing:
    1 - ¼ x ⅝ inch Carriage Bolt
    1 - ¼ inch Keps Nut
    1 - 5/16 x ¾ inch Carriage Bolt
    1 - 5/16 inch Keps Nut
  1 - Bag of Seat Mounting Parts Containing:
    4 - 5/16 inch Split Lockwashers
    4 - 5/16 x ½ inch Hex Head Screws



⚠ DANGER ⚠

This riding mower can be dangerous if carelessly used.

Read Owner's Manual thoroughly before operating riding mower.

Always wear safety glasses or eye shields while assembling or operating riding mower.

DO NOT carry passengers at any time.

Keep hands, feet, hair and loose clothing away from discharge area, underside of mower deck or any moving parts while engine is running.

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

ASSEMBLY

TOOLS REQUIRED FOR ASSEMBLY

1 - ½ inch Wrench (or adjustable wrench)
1 - 7/16 inch Wrench (or adjustable wrench)
1 - Hammer (plastic or rawhide preferred)

Your riding mower is right or left hand as you face it from the rear.

TO ACTIVATE BATTERY

1. Raise seat plate, lift battery and carton out of unit. **CAUTION: Battery carton may not be sealed at bottom. Use care when lifting so that battery does not drop out of carton.**

2. Fill battery with electrolyte battery acid available at most service stations or auto supply stores **(follow instructions outlined on electrolyte package).**

⚠ DANGER ⚠

Handle electrolyte with care. It is an acid and can be dangerous. Do not smoke while servicing battery.

3. For best battery life and service, battery should be trickle charged at two (2) to three (3) Amps overnight. **NOTE:** Battery can be boost charged at seven (7) Amps for thirty (30) minutes if closely watched to make sure acid does not boil over.

4. If battery charger is not available, allow battery to set for 20 minutes before installing in unit. Battery should be strong enough to start engine. **NOTE:** Skip steps 5 through 12 and complete assembly section of this manual while waiting for battery to charge.

5. Raise seat and place battery back into unit with positive (+) terminal (figure 1) toward front of unit.

6. Place a battery hold-down rod through hole in each end of battery hold-down bracket.

7. Place a 9/32 inch flatwasher, a ¼ inch lockwasher and a ¼ inch hex nut onto each rod.

8. Position battery hold-down bracket onto top edge of battery (left or terminal side). **NOTE:** Be sure that the battery hold-down bracket is installed so that narrow side is on top of battery.

CAUTION

Be sure that battery hold-down bracket does not touch battery terminals. When installing battery cables, install positive (red) cable first. When disconnecting battery cables, disconnect negative (black) cable first. Be sure that wrench does not touch any metal surface or both terminals, as damage to electrical system could result.

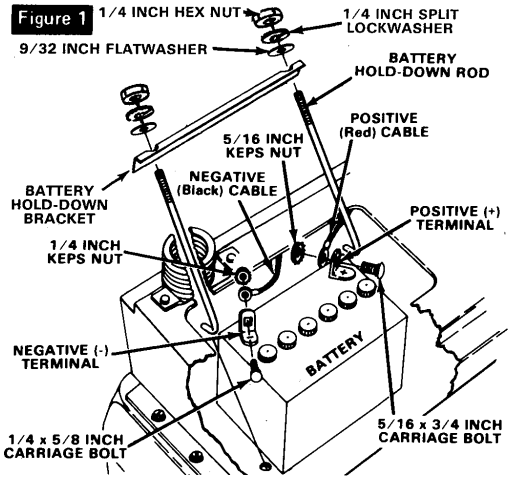
9. Place hook ends of battery hold-down rods into holes in main frame on each end of battery.

10. Tighten hex nuts to secure battery.

11. Attach positive (red) battery cable (figure 1) to positive (+) terminal on battery with a 5/16 x ¾ inch carriage bolt and a 5/16 inch keps nut.

12. Attach negative (black) battery cable (figure 1) to negative (–) terminal on battery with a ¼ x ⅝ inch carriage bolt and a ¼ inch keps nut.

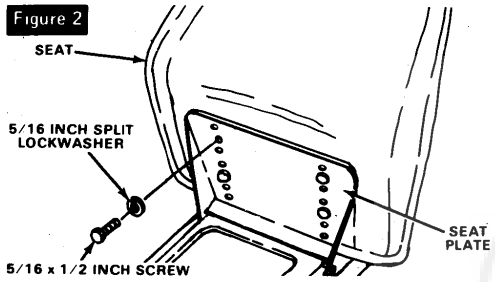
Figure 1



SEAT INSTALLATION

1. Raise seat plate (figure 2) and attach seat to plate with four 5/16 x ½ inch screws and four 5/16 inch split lockwashers as shown.

Figure 2



STEERING WHEEL INSTALLATION

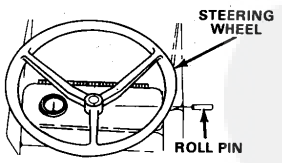
1. Position front wheels straight forward.

2. Push steering wheel (figure 3) onto steering shaft.

3. Align cross holes in steering wheel with holes in steering shaft.

4. Drive roll pin through holes with hammer.

Figure 3



TO SERVICE ENGINE

1. Place unit so engine is in a level position.

2. Pull out and rotate hood latches (figure 4) back away from hood pins. Pull out on bottom rear of hood and lift hood toward front. **NOTE:** Hood will be easier to lift if gas tank fill cap is removed.

3. Remove oil fill cap (figure 4). Using funnel, fill engine crankcase with oil. See **Engine Operation and Maintenance Manual** for proper procedure.

4. Reinstall oil fill cap and tighten securely.

5. Check to make sure that spark plug wire is tightened securely into engine and spark plug wire is attached to plug.

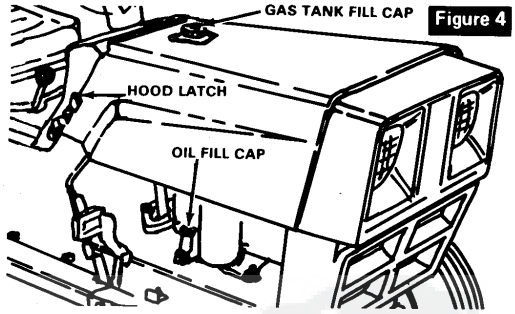
6. Return hood to closed position and reposition hood latches.

7. Fill gas tank (figure 4) with clean, fresh regular grade automotive gasoline. Low-lead gasoline is an acceptable substitute. **Do not use Ethyl, high octane gasoline or Gasohol.** 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 gas tank while the engine is running or is hot. Immediately wipe off any spilled gasoline before attempting to start engine.

Figure 4



TO SERVICE RIDER

1. If seat is not in a comfortable position, it can be moved. Raise seat and remove screws fron underside of seat plate and reposition in most comfortable position.

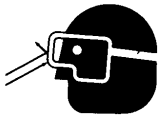
2. Check tire pressure. Correct pressure (12 to 15 pounds) should be printed on sidewall of tires. Be sure that tires are inflated equally on both sides.

3. Check all nuts and bolts to be sure none are loose.

4. Return to **Step 5** of **To Activate Battery** paragraph and complete battery installation.

OPERATION

The operation of this riding mower can result in objects being thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating a riding mower. We recommend Wide Vision Safety Mask for over spectacles or standard safety glasses.



Get to know your riding 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.

Your new mower will give years of service if cared for properly. Never run into trees, curbs, etc. Service regularly and store in dry area. Operate your mower at slow speeds until you become familiar with the machine. Avoid sharp turns at high speed and uphill or downhill turns. Operate mower carefully. Be especially cautious on hills. When riding down inclines, keep shift control in low speed with brake-clutch pedal out. This helps the engine control the speed. Use brake for fast stops on hills.

⚠ DANGER ⚠

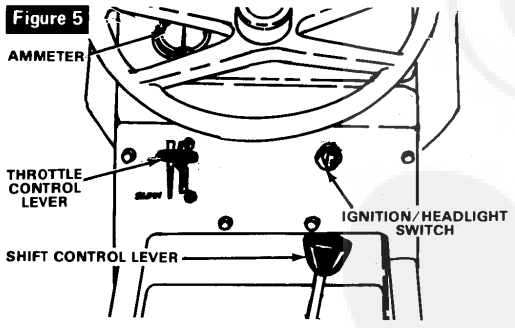
DO NOT operate this mower without the chute deflector in place. A riding mower can be dangerous to operate if misused. On slopes, be very cautious and avoid sharp turns to prevent tipping or loss of control. NEVER carry passengers.

CONTROLS

Figures 5 and 6 show all operating controls. The controls and their functions are as follows:

- **Throttle Control Lever** - Regulates engine and blade speeds and is used to choke engine. Engine should always be run at or near full speed for best grass cutting. **NOTE:** It may be necessary to push sideways on throttle lever to get it to go into START position.
- **Ignition/Headlight Switch** - Used to start and stop engine and turn headlights on and off. Turn key all the way right to 4th position to start engine. When key is released after starting engine it will return to 3rd (engine runs with headlights off) position. To turn headlights on, turn key left to 2nd (engine runs with headlights on) position. To stop engine, turn key left to 1st position. Remove key to lock ignition.
- **Ammeter** - Indicates whether battery is being recharged when engine is running. If charge (+) is not indicated while engine is running at full throttle and lights are off, have engine charging system checked by a competent engine repairman.

Figure 5



- **Shift Control Lever** - Used to select ground speed ranges as well as direction of motion (forward-neutral-reverse). Forward speed ranges are labeled 1-2-3.

  No. 1 range is slowest forward speed (used for cutting tall or heavy grass), best gear for traveling up or down steep hills or when pulling heavy loads.

  No. 2 range is for light mowing.

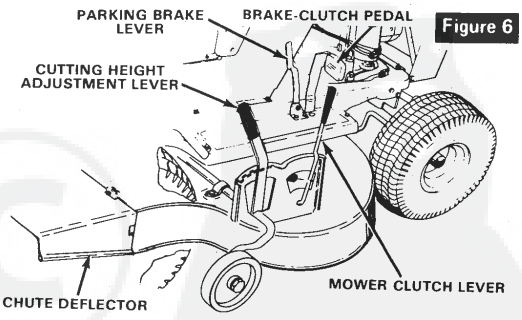
  No. 3 should be used only when transporting mower.

CAUTION

Come to full stop before changing gears.

- **Brake-Clutch Pedal** - This is a dual purpose control. Press pedal halfway down to disengage clutch. It is used for changing speed range or direction of travel (forward or reverse). Release pedal to engage clutch. With pedal completely depressed, brake is applied.
- **Parking Brake Lever** - Used to lock brake-clutch pedal in brake position.
  1. Depress brake-clutch pedal fully, engaging brake.
  2. Push parking brake lever forward and engage lever in notch of brake pedal.
  3. To release parking brake, apply pressure to pedal and spring will release parking brake lever.
  4. Check gear shift positions and know operating intentions before releasing brake.
- **Cutting Height Adjustment Lever** - Used to change height of cut.
  1. Grasp lever (figure 6) with right hand and push outward to disengage lever from notch on quadrant.
  2. Move lever to desired cutting height (toward rear of unit for high cut and forward for low cut).
  3. After positioning lever at desired height of cut be sure lever engages notch on quadrant completely. The front notch on quadrant is lowest cutting height and rear notch is highest cutting height. Other notches change height of cut approximately ½ inch each.

Figure 6



- **Mower Clutch Lever** - Used to connect or disconnect power to cutting blades. **Become thoroughly familiar with operation of this control.**
  1. Move lever toward front of unit and latch into notch on quadrant to engage power to blades.
  2. Move lever toward rear of unit to disengage power to blades and to apply blade brake.
  3. The mower clutch control allows you to disconnect the power source from the blades at any time while power to the drive wheels is still maintained and controllable. With mower clutch lever moved all the way to DIS-

ENGAGE (rearward) position, blades should stop in a safe period of time.

4. Always move mower clutch lever slowly to the ENGAGE (forward) position. **Never "snap" the lever.** It is also important to place lever to ENGAGE position while engine is running at FAST speed. This prevents excessive strain to belt.

⚠ DANGER ⚠

Blades will not stop immediately. Keep hands and feet from under mower and away from the discharge chute.

5. **Mower clutch lever must always be in full DISENGAGE position to start engine. Never place lever in ENGAGE position until engine is warmed up and operator is on unit ready to start mowing. Always return lever to DISENGAGE position before dismounting from unit.**
6. Use DISENGAGE position when using unit as a tractor for yard jobs such as pulling a roller, seeder, sweeper or other accessories.

TO START ENGINE

IMPORTANT: Your mower has two lockout switches that connect the solenoid to the brake-clutch pedal and mower clutch lever. When starting engine. the brake-clutch pedal must be fully depressed and mower clutch lever must be in full DISENGAGE position to engage the lockout switches. **ENGINE WILL NOT CRANK UNLESS THESE CONDITIONS ARE MET. NOTE:** Engine is supplied with **NO OIL. Be sure that oil has been added.** To start engine, proceed as follows:

1. Depress and hold brake-clutch pedal all the way down. Place shift lever in NEUTRAL position.
2. Place mower clutch lever to DISENGAGE position.
3. Place throttle control lever to START position.
4. Turn ignition key to START.
5. After engine starts, move throttle control lever to desired engine speed.
6. If engine fails to crank, check the following:
   A. Be sure battery has been serviced and charged.
   B. Be sure brake pedal is fully depressed and mower clutch lever is in DISENGAGE position.
   C. Check fuse in red wire near back of ignition switch.
   D. Be sure deck safety wire is connected to wire harness.
7. If engine cranks but fails to start, check the following:
   A. Check to make sure fuel tank contains clean, fresh gasoline.
   B. Carburetor adjustment may be necessary (see **Engine Operation and Maintenance Manual** for proper procedure).

⚠ 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 riding mower.

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

RIDING ROTARY OPERATION

Take a comfortable riding position on the unit and start engine as outlined. After engine warmup, depress brake-clutch pedal halfway and move shift control lever to desired forward gear. **Release clutch pedal slowly and mower will move forward. Until you get the feel of the unit, stay in the low speed position.** With mower blades stopped, make your first run in a large, open, level area. Learn to stop, start and change directions in this area.

To put unit in reverse, depress brake-clutch pedal and move gear shift lever to reverse location. **Do not force the shift lever.** Always depress brake-clutch pedal and bring mower to a full stop.

To change speed range, depress brake-clutch pedal, come to a complete stop, and move shift lever to desired location. **Never force shift lever.**

Your engine speed is controlled by a throttle control lever and a built-in governor. A faster speed within a selected speed range can be obtained by speeding up the engine operating speed. For this reason, it is necessary that the proper speed range be selected for the cutting conditions encountered. See paragraph **Mower Hints** for further information.

To stop engine, turn ignition key to OFF position.

Once you learn to maneuver your unit, slowly move mower clutch lever to ENGAGE position to start mowing. To stop blades, move lever to DISENGAGE position.

⚠ CAUTION

1. **KEEP ALL SHIELDS IN PLACE.**
2. **BEFORE LEAVING OPERATOR'S POSITION:**
   - **A. SHIFT TRANSMISSION TO NEUTRAL**
   - **B. SET PARKING BRAKE**
   - **C. DISENGAGE ATTACHMENT CLUTCH**
   - **D. SHUT OFF ENGINE**
   - **E. REMOVE IGNITION KEY**
3. **WAIT FOR ALL MOVEMENT TO STOP BEFORE SERVICING MACHINE.**
4. **KEEP PEOPLE AND PETS A SAFE DISTANCE AWAY FROM MACHINE.**

MOWING HINTS

One of the important things to learn about all rotary, and especially riding, mowers is that the forward speed of the machine must be controlled in accordance with the type and quantity of grass being cut. In other words, the more grass that must be cut, the slower the speed forward should be. When cutting light grass, the forward speed can be increased. By observing the cutting action of your mower, you can determine how fast you can travel. The engine should be run at or near full throttle and ground speed controlled by shift lever position. Your machine is very maneuverable and can be reversed to back out of dead ends.

Your mower may tend to leave unmowed strips when long and tender grass is being mowed. Tender grass has a high internal moisture content and is easily depressed by the mower wheels, and may not always spring back in time to be cut. To overcome this condition, we advise mowing the lawn in a counterclockwise direction, overlapping previous cut, which allows the lifting action of the rotating blades to lift the grass into the cutting path.

It is possible to spin the drive wheels of the unit under adverse conditions. The wheels are driven by a transaxle unit similar to an automobile differential. This makes short turns possible and prevents marring of the lawn. When one wheel slips, shift your weight over this wheel to obtain more pulling power.

KEEP THE MOWER CLEAN. Grass clippings may pack under the mower chassis due to the internal moisture content of the grass. This accumulation of cut grass should be removed after each mowing. Disconnect spark plug wire, remove ignition key and scrape accumulation off with a putty knife or similar tool. Cleaning of the underside is easier if mower deck is removed. See paragraph **Mower Deck Removal.**

⚠ DANGER ⚠

Always stop the engine, remove ignition key and disconnect spark plug before making any adjustments or repairs to the riding mower.

ADJUSTMENTS

CAUTION

At no time during the adjustments or repairs can the unit be lifted more than 20 inches from level position without taking the following precautions:

1. Remove gasoline from tank and run engine until carburetor is dry.

2. Remove battery (see BATTERY REMOVAL pargraph in MAINTENANCE section of this manual).

3. Remove oil from crankcase.

INTRODUCTION TO MECHANISM ADJUSTMENTS

Located beneath the main frame is a v-belt that transmits power to the transaxle which, in turn, transmits power to the rear wheels; a v-belt that transmits power to the two mower blades; and linkage that connects the brake-clutch pedal to the brake and the clutch.

Located on the mower deck is a clutch that disengages power to the blades and a deck leveling adjustment.

Before any adjustments are made, it is necessary that you understand the function of the brake, clutch, and the brake-clutch pedal. The pedal disengages the clutch when partially depressed and applies the brake when fully depressed.

Adjustment of the riding mower drive belt and brake must be synchronized so brake does not grab before clutch disengages. An incorrect adjustment causes brake to grab or hold while power is being transmitted to the rear wheels. Riding mower will try to move with brake applied, this will cause difficulty when shifting from one speed range or direction to another.

To replace drive belts, you must remove mower deck. Removal of deck isn't necessary for other adjustments, but if several adjustments are needed, it will be more convenient if deck is removed.

MOWER DECK REMOVAL

1. Disconnect spark plug wire and turn unit wheels maximum left. Block up front of mower deck.

2. Set mower clutch lever to the disengaged position to relieve tension on the mower blade drive belt.

3. Disconnect the deck safety wire (figure 9) from wire harness (figure 7) under main frame. **NOTE:** The by-pass wire (figure 7) must be connected to the wire harness on the main frame in order to start the engine while deck is removed.

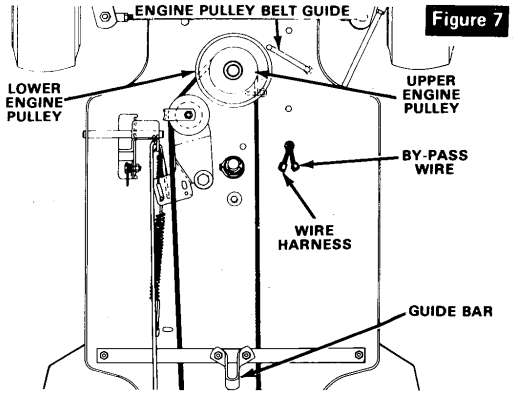


Figure 7

4. Remove hairpin cotter from pull pin on the front of the mower deck and remove pull pin (figure 8).

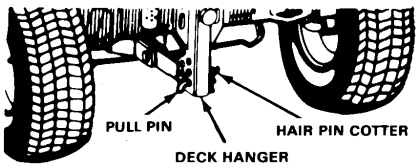


Figure 8

5. Move mower deck forward to free rear deck guide (figure 9) from rear deck guide bar (figure 7), then loosen belt guides (figure 7) on engine pulley and remove mower deck drive belt from engine pulley.

6. Deck can now be worked out from under the right side of unit. **NOTE:** Deck removal will be easier if front of unit is raised enough to allow deck hitch to slide out under right front wheel.

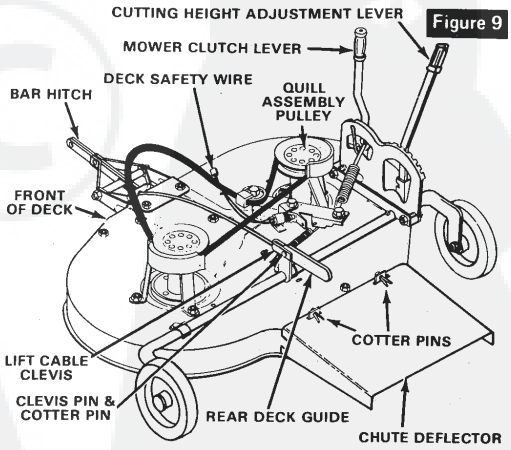


Figure 9

7. Chute deflector is removed by removing two cotter pins from top rear of deck (see figure 9).

8. Installation of deck is reverse of removal.

9. Reconnect deck wire to unit wire harness and reconnect spark plug wire.

MOWER DECK LEVELING ADJUSTMENT

The cutting height (from blade tip to ground) should be from 0 inch to ⅛ inch less at front of deck than at rear of deck. **To adjust:**

1. Disconnect spark plug wire.

2. Measure height of blade from level floor at front and rear deck (make sure tires are properly inflated). If distances are equal or not more than ⅛ inch less in the front, no adjustment is necessary.

3. If adjustment is necessary, place cutting height adjustment lever in extreme low cut position (full forward).

4. Place a block under front of mower deck (figure 9) to remove weight from the unit. Lift cable will be slack.

5. Remove cotter pin from clevis pin. Remove clevis pin.

6. Turn rear clevis clockwise to raise front of deck. Turn counterclockwise to lower front of deck. Each 1½ complete turns of clevis represents approximately ⅛ inch change in the front of mower deck.

7. Reinstall clevis and clevis pin. Remove block. Check front and rear measurements. If measurements are correct, reinstall cotter pin. If more adjustment is necessary, repeat preceding instructions.

8. Reconnect spark plug wire.

⚠ DANGER ⚠

Keep hands, feet, hair and loose clothing away from any moving parts on engine or riding mower when making any adjustments that require engine to be running. DO NOT carry passengers.

BLADE DRIVE BELT ADJUSTMENT

When mower blades will not rev to full speed or slip while mowing, the blade drive belt should be tightened. **To adjust:**

1. Disconnect spark plug wire and place mower clutch lever in disengage position.

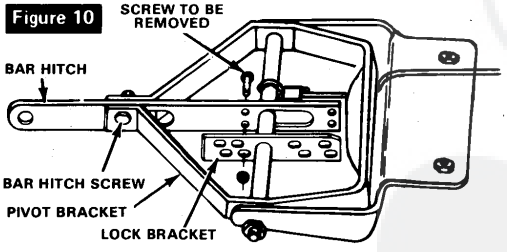
2. Remove screw from lock bracket (figure 10).

3. Loosen locknut on bar hitch screw securing bar hitch to pivot bracket (figure 10).

4. Slide mower deck rearward to tighten belt. **NOTE:** Only a small amount of movement should be required.

5. Retighten locknut on bar hitch screw.

Figure 10



6. To check adjustment, reconnect spark plug wire, start engine and run engine at FAST engine control setting. Engage mower clutch lever and allow sufficient time for blades to run to full speed, then disengage mower clutch lever. Blade should stop within a few seconds and remain stopped. If blades do not stop or tend to creep, adjustment is too tight.

⚠ DANGER ⚠

Blades will not stop immediately. Keep hands and feet from under mower and away from the discharge chute.

7. To loosen blade drive belt, reverse step 4 above.

8. Reinstall and tighten screw in lock bracket through any hole that aligns with one of four holes in bar hitch.

BLADE BRAKE ADJUSTMENT

The brake pad (attached to idler arm) should completely clear the right quill assembly (figure 11) when mower clutch lever is in engaged position. **To adjust:**

1. Disconnect spark plug wire.

2. Move mower clutch lever to disengaged position.

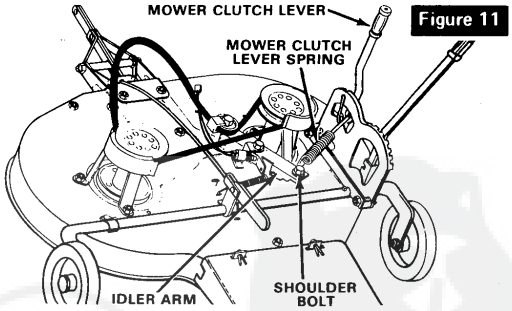
3. Push mower clutch lever forward until slack is removed from blade clutch lever spring (figure 11).

4. Check clearance between clutch lever and rear stop on quadrant. Clearance should be between ½ and ¾ inch.

5. If clearance is less than ½ inch, loosen shoulder bolt securing mower clutch lever spring (figure 11) to idler arm. Slide shoulder bolt in slot on idler arm as far as possible away from clutch lever without reducing lever clearance to less than ½ inch.

6. Retighten shoulder bolt and reconnect spark plug wire.

Figure 11



UNIT BRAKE ADJUSTMENT

This riding mower is equipped with an adjustable disc brake mounted on the transaxle. Place shift control lever to neutral position and depress brake-clutch pedal enough to latch parking brake lever in second notch. Brake should be disengaged and you should be able to push riding mower. If you are unable to push riding mower, brake is too tight and you need to loosen brake. With shift control lever in neutral position and parking brake lever in fourth notch, brake should be applied. If you are able to push riding mower, brake is too loose and you need to tighten brake. Brake must be set when parking brake lever is in the fourth position. To adjust brake, proceed as follows:

1. Disconnect spark plug wire.

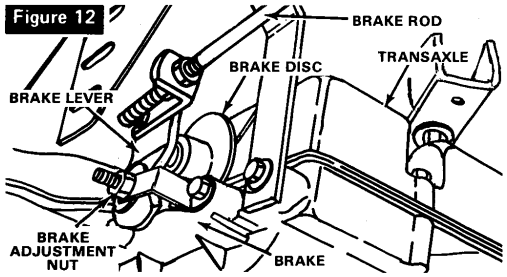
2. Place shift control lever to neutral position and depress brake-clutch pedal enough to latch parking brake lever in second notch.

3. Turn brake adjustment nut (figure 12) clockwise to tighten (couterclockwise to loosen) until brake pad just clears brake disc.

4. Check unit brake adjustment as described above.

5. Reconnect spark plug wire.

Figure 12



UNIT DRIVE BELT ADJUSTMENT

The drive belt is kept tight by a spring attached to the idler arm assembly. When drive belt is properly adjusted, the brake-clutch pedal, in fully released position, should appear as shown in figure 13 insert (foot pad straight up and down).

To adjust drive belt, proceed as follows:

1. Disconnect spark plug wire.

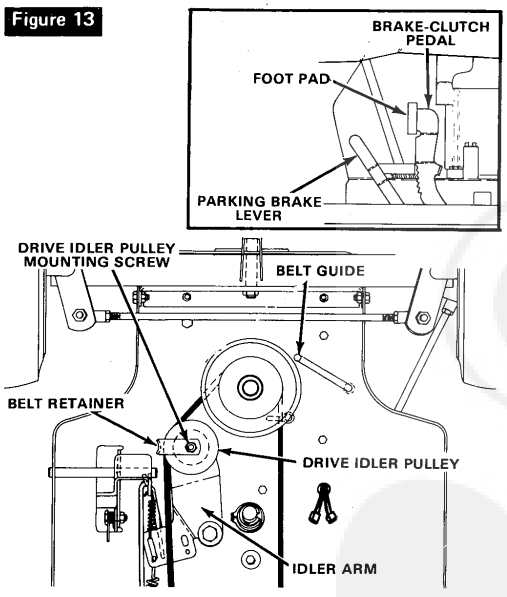
2. Depress brake-clutch pedal far enough to latch parking brake in first 1st) notch. **NOTE:** Parking brake has four (4) notches with number one (1) notch at top nearest pedal pad.

3. Drive belt should not be loose. If belt is loose, proceed as follows:

   A. Loosen drive idler pulley (figure 13) mounting screw.

   B. Push idler pulley toward outside of main frame (away from engine pulley) until belt is tight.

Figure 13



   C. Retighten idler pulley mounting screw. **NOTE:** Be sure belt retainer is positioned as shown in figure 13 (straight toward side of main frame when brake-clutch pedal is released).

4. Check unit brake adjustment as outlined in **Unit Brake Adjustment** paragraph.

5. Reconnect spark plug wire.

STEERING GEAR ADJUSTMENT

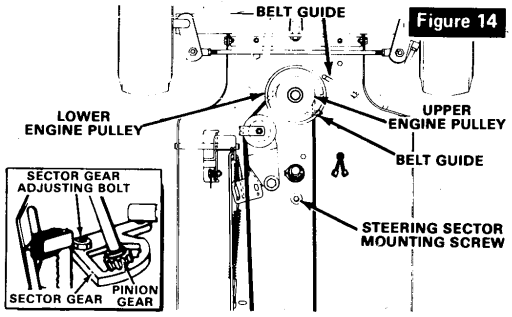
The steering gear was properly adjusted at the factory. If excessive play develops in the steering, adjust pinion and sector gears (figure 14 inset) as follows:

1. Disconnect spark plug wire.

2. Turn sector gear adjusting bolt (inset, figure 14) to move sector gear forward or backward as needed (slightly loosen sector gear mounting screw under main frame if necessary). **NOTE:** When hole in sector gear adjusting bolt top is in forward position (toward engine), sector gear is adjusted as tight as possible. When hole is in rearward position (away from engine), sector gear is adjusted as loose as possible.

3. Reconnect spark plug wire.

Figure 14



BELT GUIDES

This unit is equipped with belt guides (figure 14) located next to the engine pulley. These belt guides are angle rods secured to the main frame. The guides are moved (by loosening locknuts) before replacing belts. When repositioning (after new belt installation) allow 1/16 inch gap between guide and belt.

CARBURETOR ADJUSTMENT

Never make unnecessary adjustments. The factory settings are correct for most applications. If necessary, however, refer to **Engine Operation and Maintenance Manual.**

SPARK PLUG ADJUSTMENT

Spark plug should be checked periodically for excessive carbon and gap. The spark plug gap should be checked with a wire feeler gauge and set at .030 inch.

MAINTENANCE

UNIT DRIVE BELT REPLACEMENT

Your riding mower uses two v-belts made of special compounds. If either belt becomes worn or breaks, replace with **original equipment belt** (see **Repair Parts** section). **NEVER USE A SUBSTITUTE.** To replace unit drive belt:

1. Disconnect spark plug wire.

2. Remove mower deck. See **Mower Deck Removal** paragraph in **Adjustment** section of this manual.

3. Depress brake-clutch pedal and set parking brake.

4. Loosen clutching idler pulley belt retainer (figure 15) and remove belt from pulley

5. Loosen upper pulley belt guide (figure 15) and pull away from pulley.

6. Remove cotter pin and washer that attach shift lever to transaxle (figure 15 insert) and remove shift lever from transaxle shift bracket.

7. Remove belt from transaxle pulley (roll belt off over top of pulley).

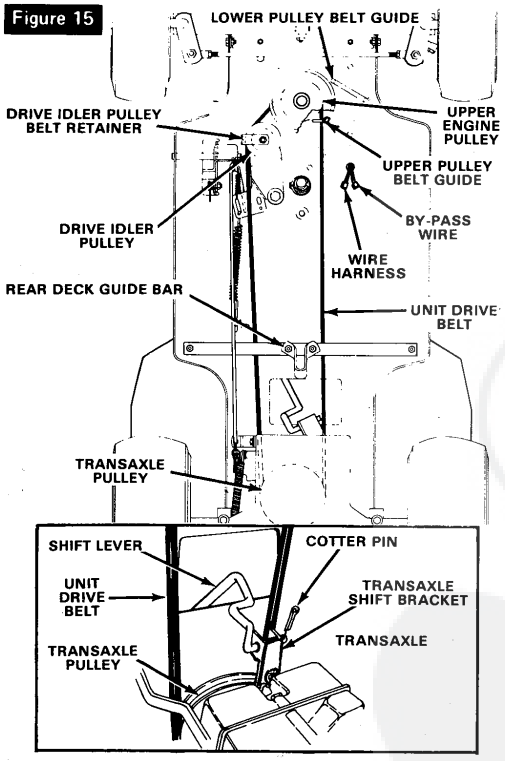
8. Remove belt from engine pulley and replace with new original equipment belt in reverse order of removal.

9. Reinstall shift lever to transaxle shift bracket with removed washer and cotter pin.

10. Release parking brake and position belt retainer on drive idler pulley as shown in figure 15.

11. Adjust belt guides. See **Belt Guides** paragraph in **Adjustment** section of this manual.

Figure 15



12. Make drive belt adjustment. See **Unit Drive Belt Adjustment** paragraph in **Adjustment** section of this manual.

13. Check unit brake adjustment. Make adjustment if necessary. See **Unit Brake Adjustment** paragraph in **Adjustment** section of this manual.

14. If blade drive belt is to be replaced, do so before reinstalling mower deck assembly.

15. Reinstall mower deck, reconnect deck safety wire and spark plug wire.

BLADE DRIVE BELT REPLACEMENT

1. Disconnect spark plug wire and remove mower deck. See **Mower Deck Removal** paragraph in **Adjustment** section of this manual.

2. Place height adjustment lever in extreme low cut position.

3. Note position of belt guide (crosswise of unit with mower clutch lever in engage position) on idler pulley (figure 16) so that guide can be reinstalled to proper position. Remove idler pulley.

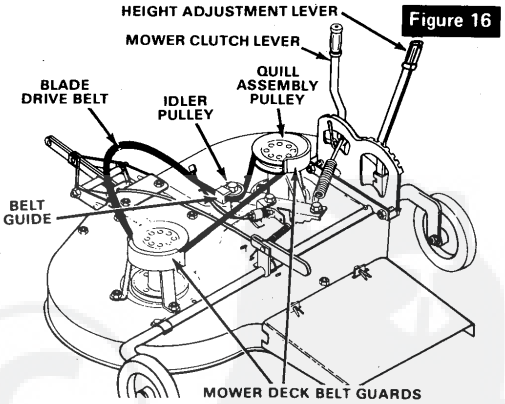
4. Loosen both mower deck belt guards (figure 16) enough to allow belt to be removed from pulleys and remove old belt.

5. Replace belt, tighten belt guards and reinstall idler pulley. Place mower clutch lever in engage position and adjust idler pulley belt guide to crosswise of unit.

6. Reinstall mower deck and adjust belt as described in paragraph **Blade Drive Belt Adjustment** in **Adjustment** section.

7. Reconnect spark plug wire.

Figure 16



BLADE REPLACEMENT

The cutting blades should be sharp and well-balanced to run smoothly. Blades should have correct amount of "lift" for proper cutting and discharge of clippings. Lift is created by upturned bent tip edges (figure 17) of blade ends. As cutting edges of blades wear, the bent tip edges also wear, decreasing blade lift, resulting in decreased cutting ability. Because of this, resharpening of blades will not help much. It is recommended that blades be replaced.

IMPORTANT: Stop engine, disconnect spark plug wire and inspect blades at once if you strike any solid unyielding object. Check to make sure blade mounting screws are tight. To remove blades:

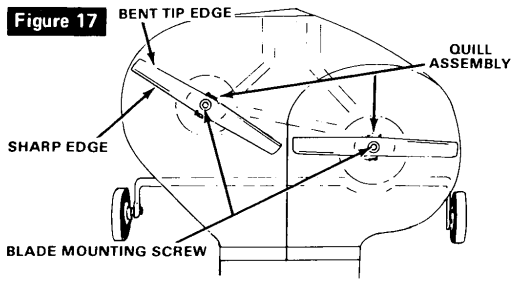
1. Remove mower deck (see paragraph **Mower Deck Removal** in **Adjustment** section.

2. With a 9/16 inch wrench, remove blade mounting screws (figure 17) by turning screws counter-clockwise.

When replacing blades, be sure all parts are reassembled in proper order (see **Repair Parts** section for proper order) or severe vibration will occur. Bent tip edges of blades must be up toward top of mower deck or blades will not cut. **NOTE: Make sure blade mounting screws are tightened securely.** We recommend a 10 inch wrench or a torque wrench. If torque wrench is used, torque blade mounting screws to between 30 and 35 foot pounds.

3. Reinstall mower deck and reconnect spark plug wire.

Figure 17



AIR FILTER MAINTENANCE

The air filter should be cleaned and re-oiled every 25 hours of operation under normal operating condition; 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 carburator. A damaged air cleaner, or one that is clogged with dust or dirt should be replaced immediately.

TO CHANGE CRANKCASE OIL

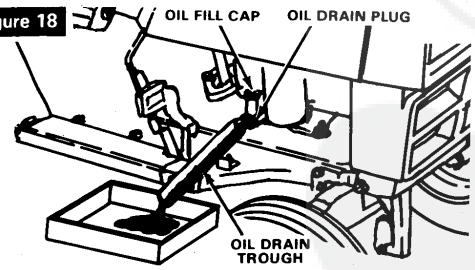
Crankcase oil should be changed after first 5 hours of operation and every 25 hours thereafter. See **Engine Operation and Maintenance Manual** for proper procedure. Check oil level before each use. Add oil as required.

1. Disconnect spark plug wire.

2. Place oil drain trough under oil drain plug (figure 18). Place a flat bottom 2 quart container beneath trough. **NOTE:** It may be necessary to raise left side of unit (with blocks under left wheels) to get proper drainage.

3. Remove plug to drain oil. **NOTE:** Oil fill cap should be loosened to serve as an air vent.

Figure 18



4. Reinstall plug, remove oil fill cap and refill crankcase as outlined in **Engine Operation and Maintenance Manual.**

5. Reinstall oil fill cap and reconnect spark plug wire.

BATTERY REMOVAL

1. Raise seat and disconnect negative (black) battery cable (figure 19). **NOTE:** Be sure wrench does not touch any metal surface or other battery terminal.

2. Disconnect positive (red) battery cable.

3. Loosen wing nuts (figure 19) enough to unhook battery hold-down rods.

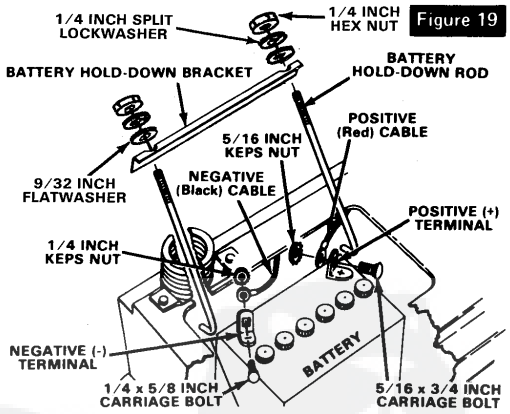
⚠ CAUTION ⚠

Be sure that battery hold-down bracket does not touch battery terminals. When installing battery cables, install positive (red) cable first. When disconnecting battery cables, disconnect negative (black) cable first. Be sure that wrench does not touch any metal surface or both terminals, as damage to electrical system could result.

4. Lift battery out of unit.

5. Installation of battery is reverse of removal. **NOTE:** Be sure to reconnect positive (red) cable first and do not allow wrench to touch any metal surface or other terminal.

Figure 19



BATTERY MAINTENANCE

1. If mower is used often, check level of electrolyte once a month. If low, add clean water until fluid reaches split ring indicator. **NEVER ADD ELECTROLYTE!**

If battery needs more than 2 or 3 ounces of water in each cell per month, the charging system may be malfunctioning. The alternator may be over-charging and this should be corrected by a trained serviceman.

2. When starter operates properly and battery connections are clean and tight but cranking difficulty is experienced, battery may not be charged. Battery should be taken to a qualified service station and tested.

3. If engine will not start right away under normal cranking speed, continued cranking will run down the battery and may cause damage to starter. Check ignition and fuel systems and correct any faults.

4. The battery should be kept clean. If the top has an accumulation of dirt or grease, remove the battery from the vehicle for cleaning. The battery should be cleaned with a

mild solution of baking soda and water. **Brush this on, keeping vent plugs tightly in place to prevent any solution from entering the cells.** Allow the solution to work for a few minutes, then rinse with clean water and wipe battery dry. If battery terminals are corroded, clean with a wire brush and coat terminals with petroleum jelly. **Be sure to reinstall battery in the same position and properly reconnect battery cables (red to positive, black to negative).**

Proper care will lengthen battery life. When replacement becomes necessary, use battery of same size and type for continued trouble-free service (see **Repair Parts** section of this manual).

LUBRICATION

Lubricate as shown in **Lubrication Chart.** The transaxle has been lubricated for life.

WIRING DIAGRAM

Parts breakdown on page 22 of this manual is designed to be used as a wiring diagram.

We recommend that unless you are fully qualified to make repairs on the electrical system on this unit, you take it to a competent repairman for such work or adjustments.

STORAGE

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

⚠ 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.

BATTERY STORAGE

1. Remove battery (see **Battery Removal** paragraph in **Maintenance** section of this manual).

2. Before storage, add clean water to split ring indicator and fully charge battery. A discharged battery will freeze and may burst. If possible, place battery in a cool dry area. Charge battery overnight every 30 days.

3. Clean battery as instructed in **Battery Maintenance** paragraph in **Maintenance** section of this manual.

ENGINE STORAGE

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

1. Prior to shut down for 30 days or more, drain fuel tank.

2. Run engine until fuel 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.

UNIT STORAGE

1. Clean the unit thoroughly.

2. Inspect the riding mower for worn or damaged parts and tighten all loose screws and nuts.

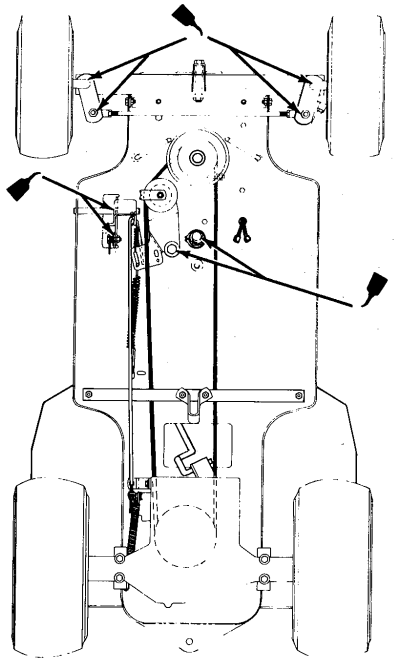
3. Lubricate all points shown in **Lubrication Chart.**

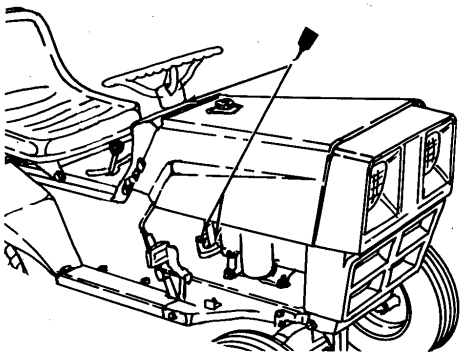
4. Store the riding mower in a protected area and cover the unit for additional protection.

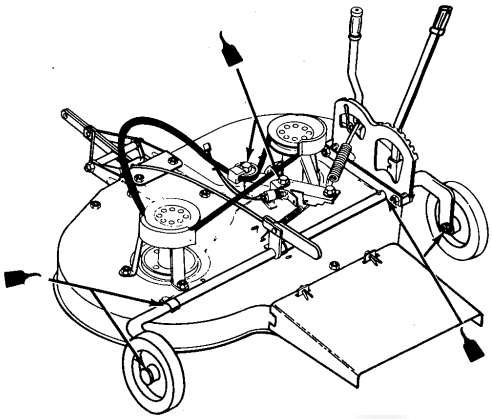
A yearly check-up or tune-up by a qualified repairman is a good way of insuring that your riding mower will provide maximum performance for the next season.

LUBRICATION CHART

Orientation view **only**. **Do Not** stand on end.







USE SAME OIL USED IN CRANKCASE EVERY 25 HOURS OF OPERATION.

PREVENTIVE MAINTENANCE CHART

FREQUENCY	PART	CARE
Before each use:	Engine Crankcase	Check oil level. Add as needed.
Every 25 hours of use or sooner as needed.	Engine Crankcase	Change oil.
	Engine Air Filer	Clean and Re-oil.
	Steering Wheel Shaft	Oil each end.
	Steering Sector	Oil.
	Front Spindles	Oil.
	Front Wheel Bearings	Oil.
	Battery	Check fluid level.
Every 50 hours of use or sooner as needed:	All the points listed under the 25 hour check plus those below:	
	Linkage & Pivot Points	Oil all locations.
	Tires	Check pressure, 12 to 15 pounds.
Before storage:	Engine	Drain gasoline tank & carburetor. Oil cylinder.
Beginning of season:	All points listed under 25 hour and 50 hour checks.	

The following **Trouble Shooting Guide** (2 pages) is designed to apply to all riding type mowers manufactured by Lawn Mower Division. Some of the problems and corrections will not apply to your unit.

TROUBLE SHOOTING GUIDE

DANGER: ALWAYS DISCONNECT SPARK PLUG WIRE BEFORE ATTEMPTING ANY INSPECTION OR ADJUSTMENT.

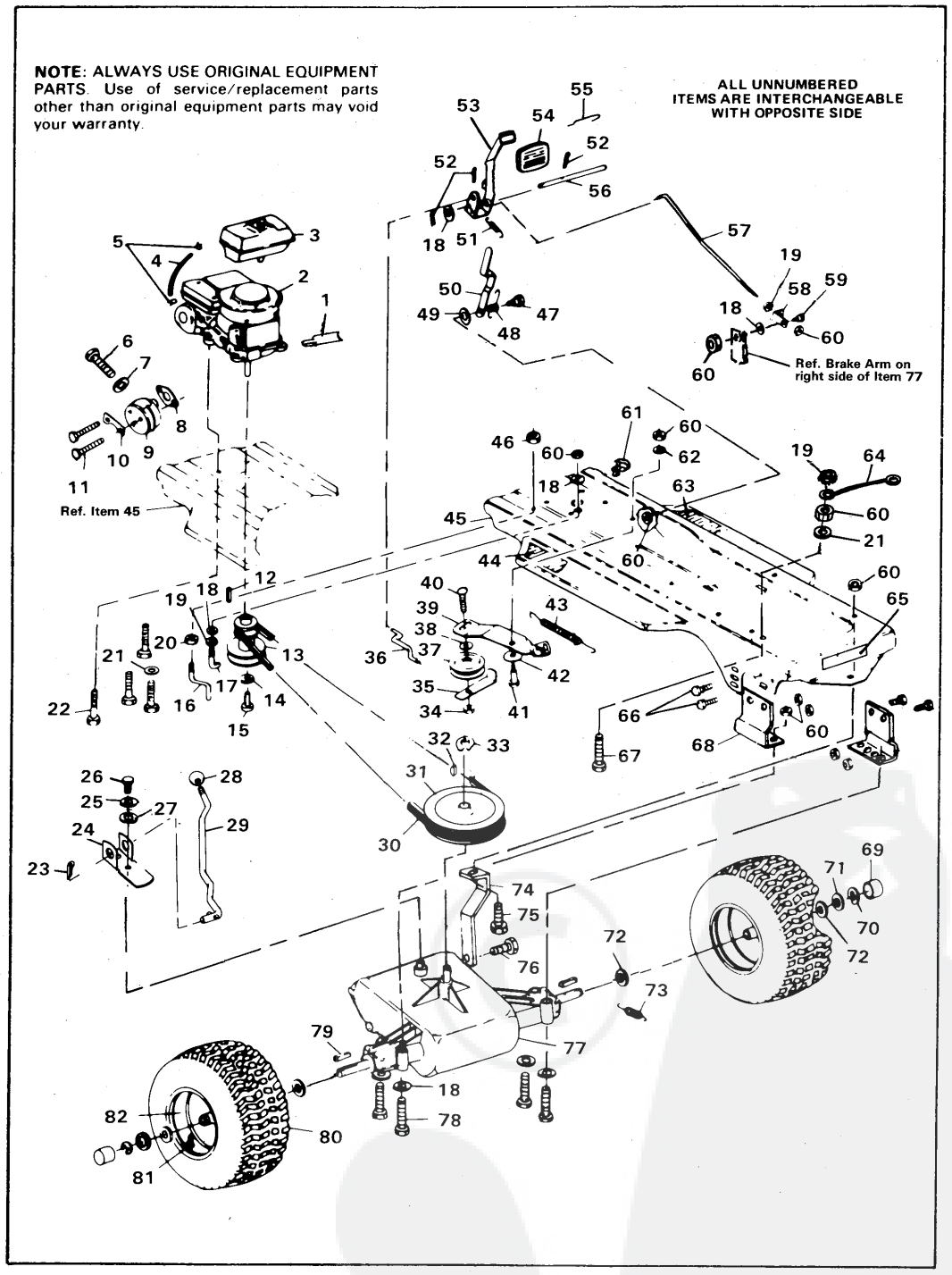
PROBLEM	CORRECTION
Mower Cuts Ragged or Uneven	1. Make certain blades are sharp and in good condition (not bent or incorrectly mounted). 2. Check blade mounting screw(s). Blade screw(s) must be tight. 3. Check quill assembly(s) for damage or bearing wear. Replace if necessary. 4. Remove any accumulation of grass clippings from underside of mower deck housing. 5. Check for possible damage to mower deck housing. Repair or replace if necessary. 6. Check pivot tube assembly for damage. If bent or damaged, repair or replace.
Mower Leaves Unmowed Strip Between Blades	1. Check for worn or dull blades. Replace if necessary. 2. Check quill assembly(s) and make certain none are bent. Replace if necessary. 3. Mowing a heavy stand of grass or grass with excessive surface moisture could allow mower to leave a unmowed strip. Mow counterclockwise (side discharge only). **Do not** mow wet grass. 4. Forward speed should be adjusted to mowing conditions by gear selection. Engine should be run at full throttle. 5. Check blade belt tension. Adjust if necessary. 6. Check for damage to mower deck housing. Repair or replace if necessary.
Mower Scalps Lawn	1. Check for bent blade(s) or quill assemble(s). Replace if necessary. 2. Check mower height adjustment setting and readjust if needed. Scalping is more likely on rough or uneven lawns. 3. Check mower deck leveling adjustment and readjust if necessary.
Mower Will Not Discharge Clippings	1. Check underside of mower deck housing for accumulation of clippings. Remove accumulated clippings. 2. Wet conditions can cause the discharge chute and underside of mower deck to become plugged with clippings. **Do not** mow wet grass. 3. If blade(s) have been replaced, make sure they have been correctly mounted.
Collector Bag Does Not Billow Out as Usual	1. Check collector discharge chute and bag inlet opening for plugging. 2. Check collector fan and jackshaft belts for tension and/or damage. Replace if necessary. 3. Check for split or damaged pulley(s). Replace if necessary.
Unit is Not Picking Up Grass Properly	1. Check collector discharge chute, mower discharge chute and bag inlet opening for plugging. 2. Mower deck height may be too low and not allowing enough air flow. Raise cutting height. 3. Check collector fan and jackshaft belts for tension and/or damage. Replace if necessary. 4. Check for split or damaged pulley(s). Replace if necessary. 5. Check collector fan housing for grass clippings build-up. Clean fan housing. 6. Check mower deck for grass clippings build-up. Clean mower deck.
Sound Level of Fan is High	1. Remove collector discharge chute and check fan housing for build up of grass clippings. Clean inside of fan fan housing.
Blade Drive Belt Comes Off During Use	1. Check belt tension. Adjust if necessary. 2. Check all belt guides. Correct clearance is 1/16 inch from belt when blade engage lever is engaged. 3. Make certain mower deck leveling adjustment is correct. Adjust if necessary. 4. Check for and remove any foreign objects interfering with belt travel. 5. Check all pulleys on mower deck. A bent or split pulley could cause problems. Replace if necessary. 6. Check engine drive pulley inner surface. If inner surface is rough or split, pulley should be replaced. 7. Check blade throw-out assembly for wear. Replace necessary parts.
Blade Drive Belt Slips	1. If grass is too high or wet, belt slippage may occur. 2. Check belt for wear or damage. Replace if necessary. 3. Check belt tension. Adjust if necessary. 4. Check blade drive belt tension spring. If spring is stretched or damaged, replace spring.
Blade Drive Belt Wears Excessively	1. Check all belt guides. Correct clearance is 1/16 inch from belt when blade engage lever is engaged. 2. Check for and remove any foreign objects interfering with belt travel. 3. Check pulleys for damage. Replace if necessary. 4. Make certain belt brake is clearing belt when mower is engaged. If brake cable is too long or broken, adjust or replace. 5. Make certain mower deck leveling adjustment is correct. Adjust if necessary.
Blade(s) Will Not Engage	1. Check belt. If worn or broken, replace. If belt is too loose, make belt adjustment. 2. Check engagement spring on deck engagement idler. If broken or damaged, replace. 3. Check for and remove any foreign objects interfering with engagement idler travel.
Blade(s) Will Not Disengage	1. Check belt tension. Adjust if necessary. 2. If blade drive belt adjustment will not provide enough slack in drive belt, replace with correct **Original Equipment Belt.** 3. Check for and remove any foreign objects interfering with engagement idler travel.
Extreme Vibration Occurs When Blade is Engaged	1. Check blade(s) and make certain they are not bent, out of balance or loose. Replace if necessary. 2. Check belt for burn spots or irregularities that might cause vibration. Replace if necessary. 3. Check quill assembly(s) for damage or wear. Replace if necessary. 4. Check for worn or damaged blade engagement parts. Repair or replace as necessary. 5. Check engine drive pulley inner surface. If inner surface is rough or split, pulley should be replaced. 6. Check under side of mower deck housing for accumulation of clippings. Remove accumulated clippings. 7. Check for loose or damaged engine mounts. Tighten or replace as necessary.

TROUBLE SHOOTING GUIDE (Continued)

DANGER: ALWAYS DISCONNECT SPARK PLUG WIRE BEFORE ATTEMPTING ANY INSPECTION OR ADJUSTMENT

PROBLEM	CORRECTION
Deck or Deck Wheel Hits Rear Wheel and Tire Assembly	1. Deck drive belt adjustment is too tight. Readjust. 2. Other than **Original Equipment Belt** is being used and is either too long or stretched. Replace belt. 3. Belt is worn. Replace with new **Original Equipment Belt.** 4. Check pivot tube assembly for damage. Repair or replace if necessary.
Deck Lift Cable Broken	1. Check operating procedure. Excessive ground speed on rough lawn may cause mower deck bounce, resulting in lift cable failure. 2. Remove excessive clippings from underside of mower deck housing (build-up of clippings adds excessive weight to mower deck).
Unit Drive Belt Slips	1. Check unit drive belt adjustment(s). Adjust if necessary. 2. Check for damaged or broken clutching idler spring. Replace if necessary. 3. Check belt(s) for wear or damage. Replace if necessary. 4. Check vari-speed control lever adjustment. 5. Check for and remove any foreign objects obstructing vari-speed or clutching idler mechanism.
Unit Drive Belt Squeals When Brake is Applied	1. Check brake-clutch synchronization (does not apply to vari-speed units). Adjust if necessary. 2. Check unit drive belt adjustment(s). Adjust if necessary. 3. Check for and remove any foreign objects obstructing vari-speed or clutching idler mechanism. 4. Check brake adjustment.
Unit Drive Belt Comes Off During Use	1. Check belt tension. Adjust if necessary. 2. Check belt guides. Adjust if necessary 3. Check for split or damaged pulley(s). Replace if necessary. 4. Check clutching idler pulley alignment. If out of alignment, idler bracket may be bent. Replace if necessary.
Jackshaft Drive Belt Comes Off During Use	1. Check idler support brackets and tighten if loose. 2. Check to make sure belt has proper twist so that "V" side of belt is in grooves on all four pulleys. 3. Check spring on right idler pulley for damage. Replace if necessary. 4. Adjust left idler pulley if belt is loose. 5. Check for worn or damaged belt. Replace if necessary.
Unit Will Not Propell Itself When Clutch or Vari-Speed Lever is Engaged	1. See **Steps 1 through 5** in **Unit Drive Belt Slips** section of this chart. 2. Check engine, transmission or transaxle pulley(s) for sheared or missing key. Replace if necessary. 3. Check transmission or transaxle to make certain it is operable. Make certain chain (chain drive units only) is intact.
Extreme Vibration Occurs When Clutch is Engaged (Let-Out)	1. Check for split or damaged pulley(s). Replace if neessary. 2. Check belt for irregularities or burned spots. Replace if necessary. 3. Make certain belt tension is correct. Adjust if necessary. 4. Check clutching idler assembly for wear or damage. Replace parts as necessasry. 5. On chain drive units, check sprockets for proper alignment and chain damage. Replace if necessary. 6. Check for loose or damaged engine mounts. Tighten or replace as necessary. 7. Check collector fan bearing. Replace damaged or worn bearing. 8. Check collector fan mounting and number (4) of fan blades. Replace fan if necessary. 9. Check collector fan blades for bends or unusual wear which could affect balance.
Unit Will Not Shift or Shifts Hard	1. Check shifting procedure. Unit MUST come to a complete stop before shifting. On vari-speed units, hold firm pressure on shift lever while moving vari-speed control lever slowly forward. 2. Check brake-clutch synchronization (does not apply to vari-speed units). Adjust if necessary. 3. Check unit drive belt adjustment. Adjust if necessary. 4. Have transmission or transaxle checked by a competent repairman.
Steering Slips or is Loose	1. Check for steering sector gear and pinion looseness. If gears are loose, make sector gear adjustment. 2. Check ball joints for wear. Replace if necessary. 3. Check center pivot bolt on front axle. If loose, tighten securely.
Engine Will Not Turn Over	1. Check starting procedure. Make sure starting instructions are followed. 2. Check fuse (if so equipped). 3. Check battery for charge. Make sure battery has been activated (on new units). 4. On new units, remove spark plug and check cylinder for accumulation of oil due to handling. 5. Make visual check of electrical system to make sure all connections and lockout switches are secure. 6. Check engine according to engine manufacturers instructions. 7. Have electrical system checked by a competent repairman.
Engine Turns Over But Will Not Start	1. Check starting procedure. Make sure starting instructions are followed. 2. Make certain fuel tank is filled with clean, fresh gasoline. 3. Make certain fuel shut-off is open (if so equipped). 4. Make certain that throttle is in choke or fast position. 5. Check engine according to engine manufacturers instructions. 6. On recoil start unit, make visual check of wiring system to make sure all connections and lockout switches are secure. 7. Have wiring and lockout switches (on recoil start unit) checked by a competent repairman.

36" RIDING MOWER MODEL 3560-5600



36" RIDING MOWER MODEL 3560-5600

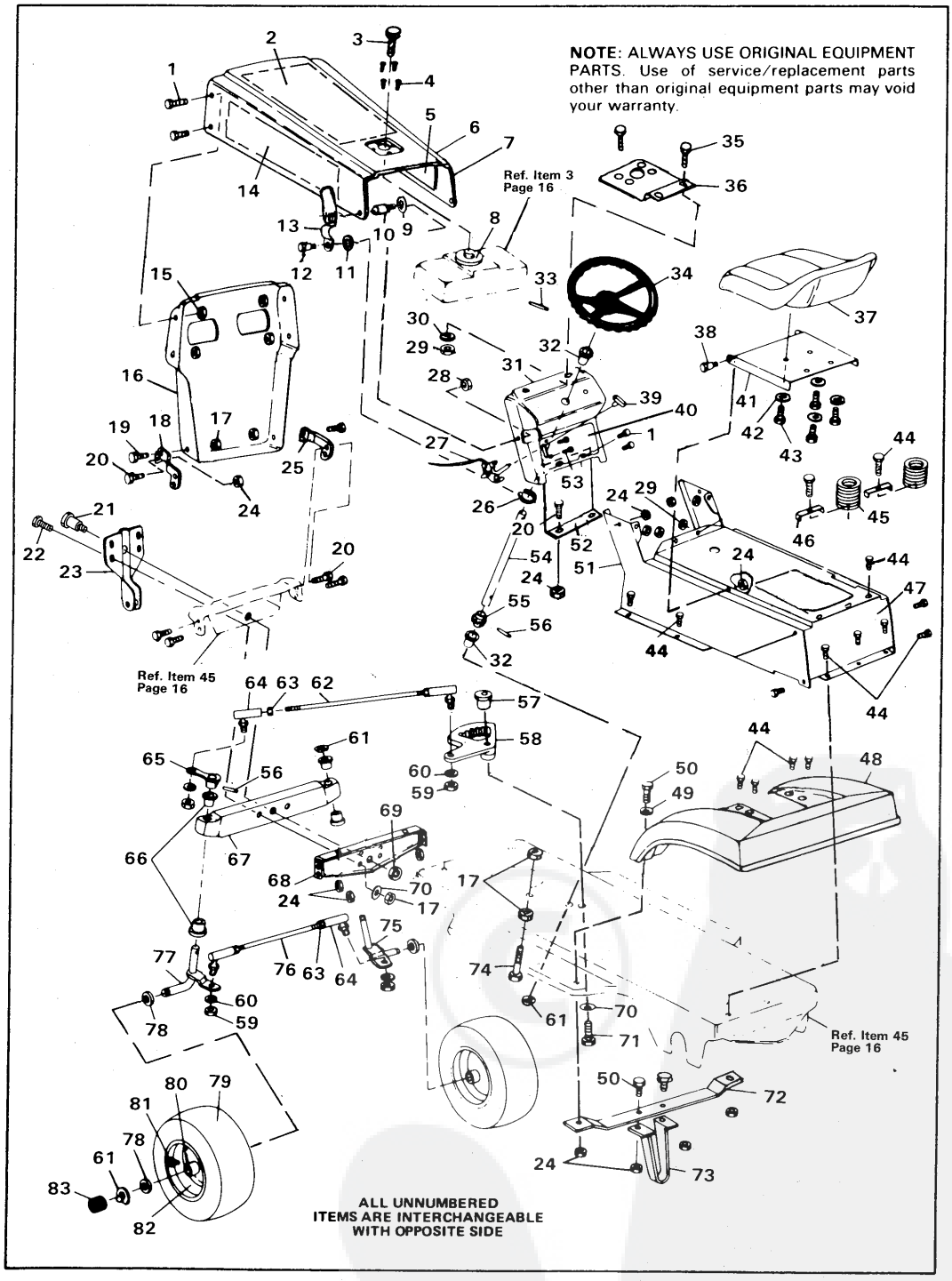
ALWAYS GIVE THE FOLLOWING INFORMATION WHEN ORDERING REPAIR PARTS:
1. The PART NUMBER; 2. The PART NAME; 3. QUANTITY DESIRED; 4. The MODEL NUMBER **(As shown on Model Plate)**
SEND PART ORDERS AS PER INSTRUCTIONS ON THE FRONT PAGE
YOUR UNIT IS RIGHT HAND (RH) OR LEFT HAND (LH) AS YOU STAND BEHIND IT.
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
1	54873	Trough, Oil Drain
2	Engine	§See Footnote Below
3	48812	Gas Tank
4	48049	Gas Line
5	41008	Clip, Gas Line
6	120706	Screw, Hex Hd, ¼-20 x ½ In.
7	120380	Lockwasher, Split, ¼ In.
8		Gasket, Muffler (Engine Part)
9	49993	Muffler
10		Engine Part
11	173063	Screw, Hex Hd, 5/16-18 x 3½ In.
12	33200	Key, Engine Pulley
13	55796	Pulley, Engine
14	120383	Lockwasher, Split, 7/16 In.
15	123567	Screw, Hex Hd, 7/16-20 x 1 In.
16	50653	Belt Guide, Blade Drive
17	49896	Belt Guide, Trans. Drive Belt
18	120386	Flatwasher, ¼ In.
19	271184	Nut, Hex, Keps, 5/16-18 Thd.
20	271190	Nut, Hex, Keps, ⅜-16 Thd.
21	138485	Washer, Ext. Lock, 5/16 In.
22	50947	Screw, Hex Hd, ⅜-16 x 1¼ in.
23	137185	Pin, Cotter, ⅛ x 1 In.
24	56256	Shift Bracket
25	50618	Washer, ½ In.
26	56255	Screw, Nylock, ¼-28 x ¾ In.
27	54569	Washer, ¼ In.
28	55514	Knob, Gear Shift
29	55526	Shift Lever
30	54758	V-Belt
31	55520	Pulley, Transaxle
32	3021	Key, Woodruff, No. 606
33	22053	Retaining Ring
34	9413534	Locknut, Hex, ⅜-16 Thd.
35	39659	Belt Retainer
36	43980	Rod, Clutch
37	35374	Pulley, Idler
38	274517	Flatwasher, 25/64 In.
39	53762	Idler Arm
40	45892	Carriage Bolt, ⅜-16 x 1½ In.
41	41890	Shoulder Bolt
42	4107	Washer

Key No.	Part No.	Description
43	49276	Spring, Main Drive
44	54955	Foot Pad, L.H.
45	54751	Main Frame
46	41529	Locknut, ⅜-16 Thd.
47	40974	Shoulder Bolt, Parking Brake
48	43968	Spring, Parking Brake
49	32327	Wave Washer
50	50980	Arm, Parking Brake
51	50562	Spring, Clutch Pedal
52	121222	Pin, Cotter, 3/32 x ¾ In.
53	55722	Brake Pedal Assembly
54	53979	Rubber Pad, Brake Pedal
55	55025	Retainer, Pad, Brake Pedal
56	43956	Shaft, Brake-Clutch Pedal
57	54715	Rod, Brake
58	54723	Bracket, Brake Rod
59	20507	Shoulder Bolt
60	9413447	Locknut, Hex 5/16-18 Thd.
61	54888	Retainer, Wire
62	45602	Washer
63	54618	Foot Pad, R.H.
64	55511	Ground Wire
65	68542	Decal, Caution
66	120228	Screw, Hex Hd, 5/16-18 x ⅝ In.
67	122017	Screw, Hex Hd, 5/16-18 x 1 In.
68	53768	Bracket, Axle
69	40394	Hub Cap
70	36625	"E" Ring
71	42815	Flatwasher
72	642	Flatwasher
73	35410	Spring, Brake Return
74	54713	Bracket, Stabilizer
75	122007	Screw, Hex Hd, 5/16-18 x ¾ In.
76	35498	Screw, Hex Wa. Tap, 5/16-18 x ¾ In.
77	Transaxle	†Peerless 4 speed, Model 900
78	122077	Screw, Hex Hd, 5/16-18 x 2½ In.
79	39628	Key, 3/16 x 3/16 x 2½ In.
80	41106	Tire
81	24167	Valve Stem
82	41105	Wheel
83	62849	Owner's Manual (English)
84	62850	Owner's Manual (French)

*Standard Hardware Items - May Be Purchased Locally.
†Contact Tecumseh/Peerless authorized service dealer for parts and warranty.
§Contact Engine Manufacturer's authorized service dealer (See Engine Manual) for parts and warranty.

36" RIDING MOWER MODEL 3560-5600



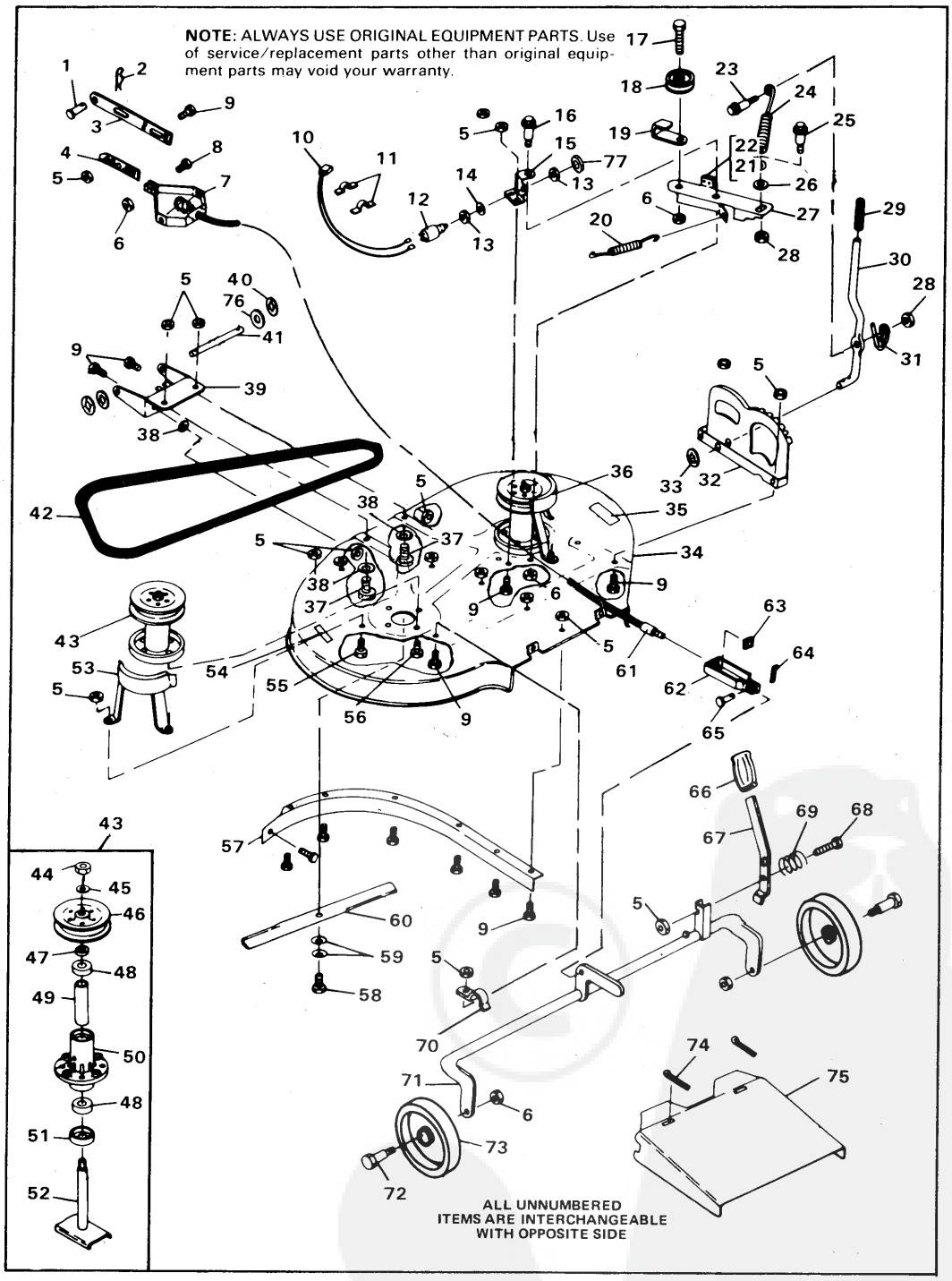
36" RIDING MOWER MODEL 3560-5600

Key No.	Part No.	Description
1	274672	Screw, Hex Wa. Hd, ¼-20 x ⅝ In.
2	55832	Foam Pad, Hood Top
3	50988	Gas Gauge
4	49050	Screw, Plastite, ¼-10 x ¾ In.
5	55834	Foam Pad, Hood, R.H.
6	53954	Hood
7	55040	Edging, Hood
8	54885	Pad, Vibration
9	138538	Lockwasher, Int. Tooth, 5/16 In.
10	53446	Pin, Hood Latch
11	120394	Flatwasher, 13/32 In.
12	8482	Shoulder Bolt
13	55020	Latch, Hood
14	55833	Foam Pad, Hood, L.H.
15	50352	Locknut, Wide Flange, ¼-20 Thd.
16	53402	Grille
17	9413534	Locknut, ⅜-16 Thd.
18	56259	Bracket, Grille Support, L.H.
19	120233	Screw, Hex Hd, ⅜-16 x 1 In.
20	120228	Screw, Hex Hd, 5/16-18 x ⅝ In.
21	50720	Shoulder Bolt, Axle Pivot
22	122201	Screw, Hex Hd, ⅜-16 x 2¾ In.
23	56261	Bracket, Deck Hanger
24	9413447	Locknut, Hex, 3/16-18 Thd.
25	56260	Bracket, Grille Support, R.H.
26	39492	Retaining Ring
27	50117	Lever, Throttle Control
28	45174	Locknut, Wide Flange, ¼-20 Thd.
29	9424215	Locknut, Hex, ¼-20 Thd.
30	120386	Flatwasher
31	53951	Dash Assembly
32	54902	Bearing, Steering
33	456836	Spring Pin, ¼ x 2¼ In.
34	55633	Steering Wheel
35	120854	Screw, Hex Hd, ¼-20 x ⅝ In.
36	55387	Bracket, Support, Gas Tank
37	52656	Seat
38	20507	Shoulder Bolt
39	39486	Knob, Throttle Control Lever
40	70036	Decal, Lower Dash
41	56196	Seat Bracket
42	120638	Lockwasher, Split, 5/16 In.

Key No.	Part No.	Description
43	120834	Screw, Hex Hd, 5/16-18 x 1½ In.
44	995346	Screw, Taptite, ¼-20 x ½ In.
45	56220	Spring, Seat
46	56060	Clip, Seat Spring
47	56235	Cover, Rear Console
48	52470	Fender Assembly
49	446363	Flatwasher, 5/16 In.
50	122017	Screw, Hex Hd, 5/16-18 x 1 In.
51	56226	Console Assembly
52	55537	Bulkhead, Console
53	35287	Screw, Taptite, No. 8-32 x ⅜ In.
54	44008	Shaft, Steering
55	44009	Pinion Gear
56	454565	Roll Pin
57	44011	Shoulder Bolt, Sector Gear
58	48543	Sector Gear
59	120369	Nut, Hex, ⅜-24 Thd.
60	120382	Lockwasher, Split, ⅜ In.
61	36625	"E" Ring
62	56190	Drag Link
63	124925	Nut, ⅜-24 Thd.
64	21275	Ball Joint
65	49447	Arm, Steering
66	50546	Bearing, Spindle
67	56400	Front Axle Assembly
68	56362	Bracket, Front Axle Support
69	274654	Locknut, Hex, ¼-20 Thd.
70	2483	Spring Washer
71	39573	Screw, Hex Hd, Lock, ⅜-24 x 1 In.
72	43964	Bracket, Deck Guide Support
73	44500	Bracket, Deck Guide
74	49930	Upstop Bolt
75	55518	Spindle, Right
76	55666	Tie Rod
77	55519	Spindle, Left
78	642	Flatwasher, ¾ In.
79	41108	Tire
80	39979	Bearing
81	24167	Valve Stem
82	39829	Wheel w/Bearing
83	40394	Hub Cap

*Standard Hardware Items - May Be Purchased Locally.

36" RIDING MOWER MODEL 3560-5600



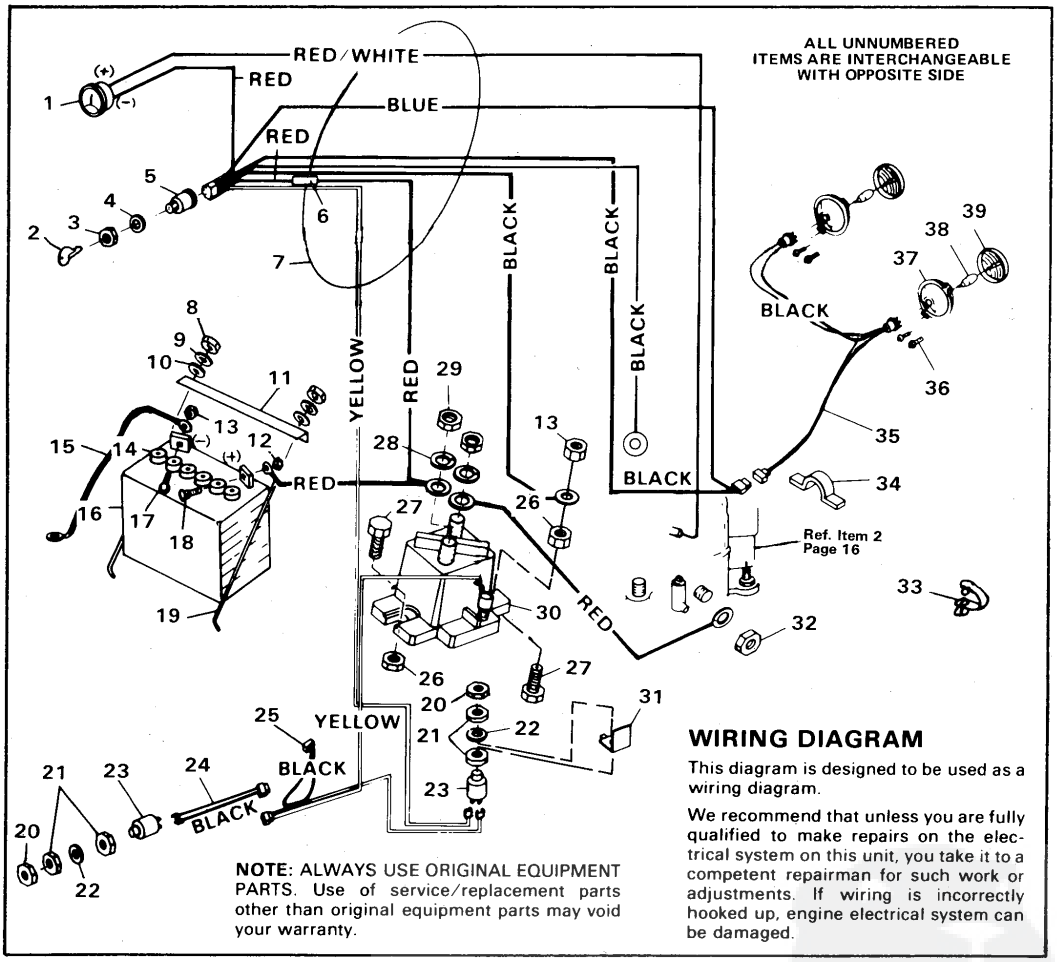
36" RIDING MOWER MODEL 3560-5600

Key No.	Part No.	Description
1	47816	Pull Pin
2	56180	Hairpin Cotter
3	49059	Bar Hitch
4	49058	Lock Bracket
5	9413447	Locknut, 5/16-18 Thd.
6	9413534	Locknut, ⅜-16 Thd.
7	50613	Pivot Bracket
8	120918	Screw, Hex Hd, ⅜-16 x 1½ In.
9	120228	Screw, Hex Hd, 5/16-18 x ⅝ In.
10	48851	Wire Assembly
11	41482	Clip, Press
12	41204	Switch, Lockout
13	45877	Nut (Lockout Switch Part)
14	45878	Lockwasher (Lockout Switch Part)
15	47517	Bracket, Idler Arm
16	47516	Shoulder Bolt
17	122168	Screw, Hex Hd, ⅜-16 x 1⅜ In.
18	52694	Pulley, Idler
19	52695	Belt Retainer
20	35410	Spring
21	41601	Rivet, Brake Pad
22	41471	Brake Pad
23	53696	shoulder Bolt
24	52636	Spring, Clutch Lever
25	46563	Shoulder Bolt
26	120392	Flatwasher, 9/32 In.
27	53055	Idler Arm Assy. (Incl. Nos. 21 & 22)
28	9424215	Locknut, ¼-20 Thd.
29	46478	Hand Grip
30	53693	Lever, Clutch
31	46561	Spring, Clutch Lever
32	53247	Quadrant
33	53697	Push Nut
34	55663	Mower Deck
35	68882	Decal, Height Adjust
36	46364	Cover, Pulley, R.H.
37	122007	Screw, Hex Hd, 5/16-18 x ¾ In.
38	996416	Flatwasher, ⅜ In.
39	48676	Lift Support, Plate Assembly

Key No.	Part No.	Description
40	20864	"E" Ring
41	55724	Pin, Pivot
42	49878	V-Belt
43	56424	†Quill Assembly (Incl. Nos. 44-52)
44	51445	Locknut, Flange
45	56365	Flatwasher
46	56390	Pulley
47	51449	Spacer
48	49562	Bearing
49	50818	Spacer, Tube
50	55547	Quill Casting
51	50616	Dust Shield
52	56425	Saddle and Shaft Assembly
53	46365	Cover, Pulley, L.H.
54	68542	Decal, Caution
55	122017	Screw, Hex Hd, 5/16-18 x 1 In.
56	50634	Screw, Taptite, 5/16-18 x ⅞ In.
57	55655	Baffle, L.H.
58	39573	Screw, Hex Hd, ⅜-24 x 1 In.
59	2483	Formed Washer
60	54884	Blade, 18 In.
61	55880	Lift Cable
62	39404	Clevis, Lift Cable
63	120372	Nut, Squae, ¼-20 Thd.
64	8260	Hairpin Cotter
65	39522	Pin, Clevis
66	20250	Hand Grip
67	49131	Lever, Height Adjust
68	120696	Screw, hex Hd, 5/16-18 x 2¼ In.
69	53246	Spring
70	51985	Support, Pivot Tube
71	52613	Pivot Tube Assembly
72	23763	Wheel Axle
73	52584	Wheel
74	120123	Pin, Cotter, ⅛ x 1¼ In.
75	50993	Chute Extension
76	996425	Flatwasher
77	56635	Nut, Hex

*Standard Hardware Items - May Be Purchased Locally.

36" RIDING MOWER MODEL 3560-5600



WIRING DIAGRAM

This diagram is designed to be used as a wiring diagram.

We recommend that unless you are fully qualified to make repairs on the electrical system on this unit, you take it to a competent repairman for such work or adjustments. If wiring is incorrectly hooked up, engine electrical system can be damaged.

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

Key No.	Part No.	Description
1	39463	Ammeter
2	49643	Key, Ignition
3	48140	Locknut, (Switch Part)
4	138557	Lockwasher (Switch Part)
5	52583	Switch, Ignition w/Keys
6	49211	Fuse
7	56349	Wire Harness Assembly
8	120375	*Nut, Hex, ¼-20 Thd
9	120380	*Lockwasher, Split, ¼ In.
10	9424215	Locknut, Hex, ¼-20 Thd
11	56360	Bracket, Battery Hold-Down
12	271184	*Nut, Keps, 5/16-18 Thd
13	271172	*Nut, Keps, ¼-20 Thd
14	40892	Cap, Battery
15	55511	Ground Wire
16	52936	Battery
17	126203	*Carriage Bolt, ¼-20 x ⅝ In.
18	126216	*Carriage Bolt, 5/16-18 x ¾ In.
19	40234	Battery Rod
20	56635	Nut, Hex, 15/32-32 Thd

Key No.	Part No.	Description
21	45877	Nut (Lockout Switch Part)
22	45878	Lockwasher (Lockout Switch Part)
23	41204	Switch, Lockout
24	48851	Wire Assembly, Deck Switch
25	42071	Wire Assembly, By-Pass
26	9424215	Locknut, Hex, ¼-20 Thd
27	187745	*Screw, Hex Hd, ¼-20 x ¾ In.
28	138485	Lockwasher, Ext. Tooth, 5/16 In.
29	120368	Locknut, Hex, 5/16-24 Thd
30	53716	Solenoid
31	49734	Bracket, Switch Mounting
32		Engine Part
33	54888	Retainer, Wire
34	41482	Wire Clip, Press
35	56189	Lead Wire, Headlight
36	50668	Screw, Hex Wa Hd, No. 10-14 x ½ In
37	52571	Bezel, Headlight
38	52572	Bulb, Headlight
39	52570	Lens, Headlight