

ASSEMBLY • OPERATION • MAINTENANCE • PARTS

30" RIDING MOWER

Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American built product.

Model Number 131-410A

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LIMITED WARRANTY

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

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

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

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

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

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



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

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



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

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

- It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
- This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
- Know the controls and how to stop quickly— READ THIS OWNER'S MANUAL.
- 4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- 5. Do not carry passengers.
- 6. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.
- 7. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
- 8. Stop the blade(s) when crossing gravel drives, walks or roads.
- Disengage all attachment clutches and shift into neutral before attempting to start engine.
- 10. Disengage power to attachment(s) and stop engine before leaving operating position.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
- 12. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- 13. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
- 14. Disengage power to attachment(s) when transporting or not in use.
- 15. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
- 16. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
- Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

- 18. Stay alert for holes in terrain and other hidden hazards.
- Use care when pulling loads or using heavy equipment.
 - 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. Use counterweight(s) or wheel weights when suggested in owner's manual.
- Watch out for traffic when crossing or near roadways.
- 21. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
- 22. Handle gasoline with care. It is highly flammable.
 - A. Use approved gasoline container.
 - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
 - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
- 23. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
- Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
- 26. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
- 27. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
- 28. Do not change the engine governor settings or overspeed the engine.
- 29. When using the vehicle with mower, proceed as follows:
 - (1) Mow only in daylight or in good artificial light.
 - (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
 - (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
 - (4) Check blade mounting bolts for proper tightness at frequent intervals.
- Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
- 31. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

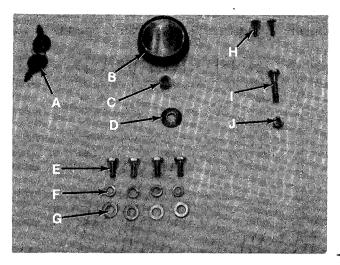


FIGURE 1.

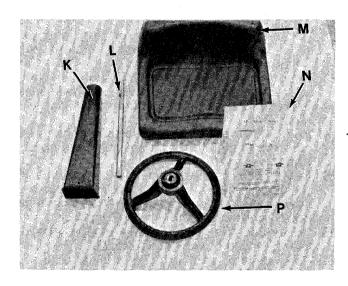


FIGURE 2.

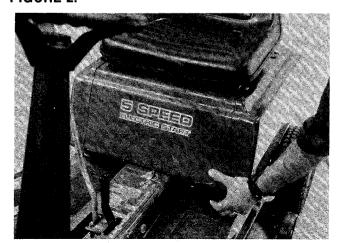


FIGURE 3.

ASSEMBLY INSTRUCTIONS



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



Reference to right hand or left hand side of machine is from the driver's seat facing forward.

← Contents of Hardware Pack:

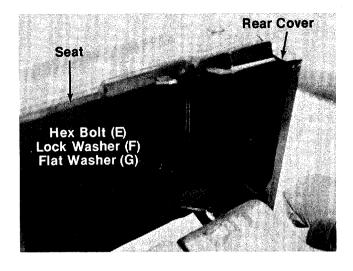
- A (2) Ignition Keys
- B (1) Steering Wheel Cap
- C (1) Hex Lock Nut
- D (1) Belleville Washer
- E (4) Hex Bolts 5/16-18 x 5/8" Long
- F (4) Lock Washers 5/16" I.D.
- G (4) Flat Washers
- H (2) Truss Screws
- I (1) Hex Bolt 14-20 x 1.25" Long
- J (1) Hex Lock Nut 1/4-20 Thread
 - (1) Battery Strap (Not Shown)

←—Loose Parts in Carton:

- K (1) Steering Cover
- L (1) Steering Tube Assembly
- M (1) Seat
- N (1) Battery Pack
- P (1) Steering Wheel

SEAT ASSEMBLY

—1. Release the rear cover latch and raise the rear cover. See figure 3.



 Place the seat over cover and fasten with four hex bolts (E), lock washers (F) and flat washers (G). See figure 4.

FIGURE 4.

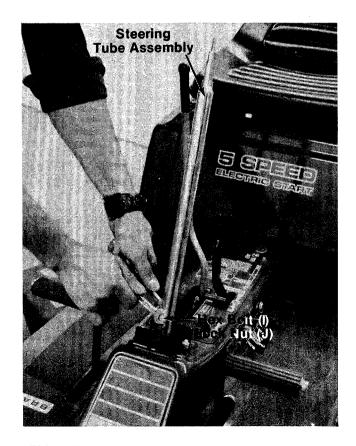


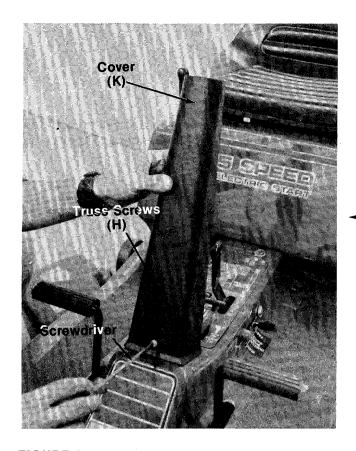
FIGURE 5.

STEERING WHEEL ASSEMBLY (See figures 5, 6 and 7)



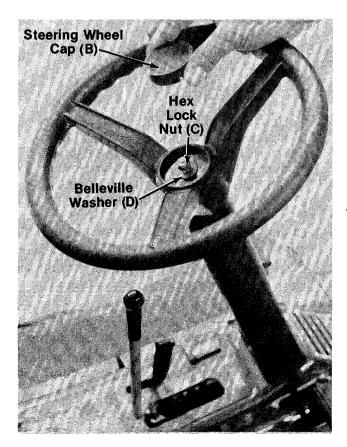
Due to vibration during shipment, it is possible that the steering shaft on your unit may have dropped to a position where alignment of parts is difficult. This must be kept in mind during the assembly operation.

- 1. Check the upper and lower hex bearings. Be sure they are seated and in position.
- 2. Place your hand under the front of the unit and push up on the steering shaft assembly.
- 3. Hold up the shaft assembly. Place the steering tube assembly (L) on the shaft and start the hex bolt (I) through the hole. See figure 5.
 - 4. Fasten the tubing assembly to the steering shaft assembly with hex bolt (I) and hex lock nut (J) provided.



- 5. Place the cover over the steering tube assembly. Line up holes in cover with speed—nuts. See figure 6.
- Secure cover (K) to support bracket with two hex self-tapping screws (H) provided. See figure 6.

FIGURE 6.



- 7. Place the steering wheel on the tubing assembly and fasten with belleville washer (D) and hex lock nut (C). See figure 7.
 - Again, it may be necessary to raise the steering shaft assembly in order to put the hex lock nut on.
- 8. Place the steering wheel cap (B) on by hand. See figure 7.

FIGURE 7.

BATTERY INFORMATION



- A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.
- B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues
- C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.
- D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.

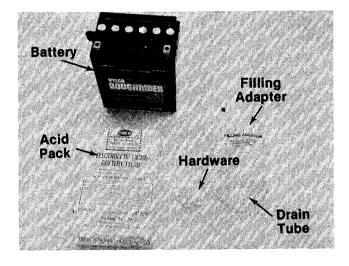


FIGURE 8.

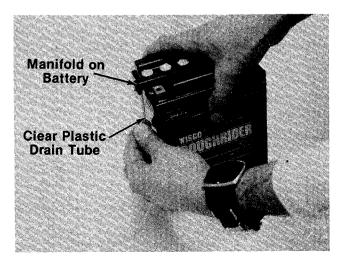


FIGURE 9.

- E. Keep sparks, flame, cigarettes away.
- F. Hydrogen gas is generated during charging and discharging.
- G. Ventilate when charging or using in enclosed space.
- H. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.
- I. Always shield eyes, protect skin and clothing when working near batteries.



BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

ACTIVATING AND INSTALLING THE BATTERY

 Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling —adapter and hardware. See figure 8.

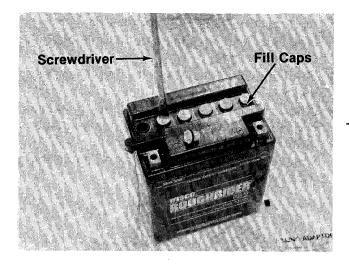


BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).

- 2. Place the battery on table or workbench to be filled
- 3. Place one end of clear plastic drain tube on manifold of battery. See figure 9.



Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.



4. Remove the six fill caps from the top of the battery. A screwdriver will make it easier. See figure 10.

FIGURE 10.

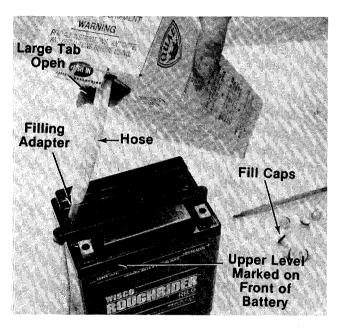
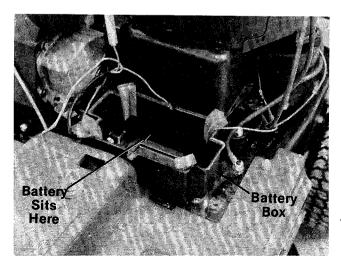


FIGURE 11.



- 5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. Do not use a sharp tool or object to open acid package.
- Pull out hose from package and hold upright.
 Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling—adapter. See figure 11.
- Fill each cell to (upper level) marked on front of battery. Reassemble fill caps to battery. See figure 11. Allow the battery to sit for 20 minutes.



Contains sulfuric acid. Avoid contact with skin, eyes or clothing. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or veg. oil. Call physician immediately. Eyes: Flush with water for 15 minutes and get prompt medical attention.

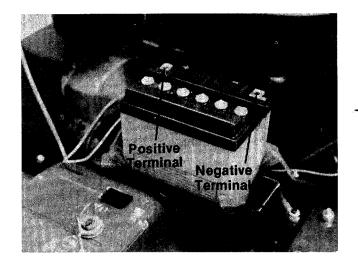
Batteries produce explosive gases. Keep sparks, flame, cigarettes away. Ventilate when charging or using in enclosed space.

Always shield eyes when working near batteries.

KEEP OUT OF REACH OF CHILDREN

8. Figure 12 shows the battery box in which the battery will be mounted.

FIGURE 12.

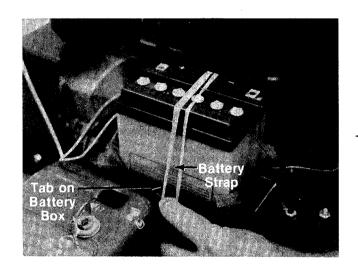


Place the battery in the rider so that the positive terminal is towards the right side of the unit. See figure 13.



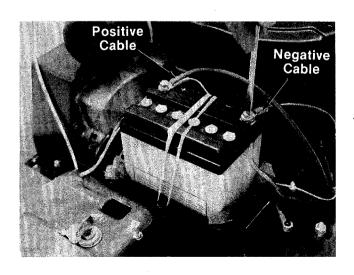
Right and left hand side of the unit is determined by sitting on the seat in the operating position, facing forward.

FIGURE 13.



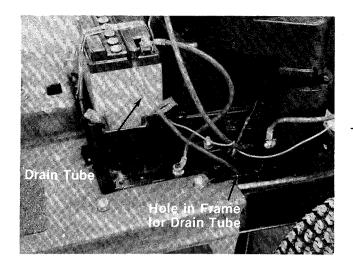
10. Secure the battery to the battery box by stretching the battery strap provided across—the battery. Loop each end around the tab on the sides of the battery box. See figure 14.

FIGURE 14.



- 11. Slide the square nut (provided with battery hardware) into the positive (+) terminal. Place the positive (heavy red wire) cable on the positive terminal. Secure with screw and lock—washer provided. See figure 15.
- 12. Slide the square nut (provided with battery hardware) into the negative (-) terminal. Place the negative (heavy red wire) cable on the negative terminal. Secure with screw and lock washer provided. See figure 15.

FIGURE 15.



13. Feed the end of the battery drain tube into the hole provided in the frame, located in front of the starter on the engine. See figure 16.

FIGURE 16.

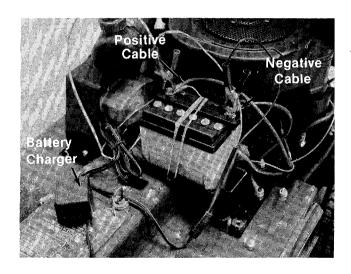


FIGURE 17.



Failure to follow the above procedure when charging a battery can cause the gases in the battery to explode.



Charging rate after battery has been put into operation: The battery is to be charged with the charger provided, for a period of 14-16 hours. NO LONGER THAN 30 HOURS.

14. The battery can be SLOW CHARGED (DO NOT FAST CHARGE) at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours. See figure 17.



The battery charger provided is specially designed for the battery in this unit. **Do not use any other charger.** A charging rate in excess of the above specifications will buckle and warp the positive plates and/or perforate the separators.

To Attach the Battery Charger:

- 1. Attach the red clip on the charger to the positive terminal.
- 2. Attach the black clip on the charger to the negative terminal.
- 3. Plug the other end of the battery charger into a standard household 110 A.C. outlet.

To Remove the Battery Charger:

- 1. Unplug the charger from the 110 A.C. outlet.
- 2. Remove the black clip from the negative terminal.
- Remove the red clip from the positive terminal.



After battery has been in service, add only distilled water. DO NOT ADD ACID.

TIRE PRESSURE

FOR SHIPPING PURPOSES, THE TIRES ON YOUR UNIT MAY BE OVER-INFLATED. TIRE PRESSURE SHOULD BE REDUCED BEFORE UNIT IS PUT INTO OPERATION. PRESSURE SHOULD BE APPROXIMATELY 15 P.S.I. EQUAL TIRE PRESSURE SHOULD BE MAINTAINED ON ALL TIRES. MAXIMUM TIRE PRESSURE IS 30 P.S.I.



Installation of tire to rim:

- 1. Lubricate tire beads and rim flanges.
- 2. Do not exceed 30 P.S.I. when seating beads.
- 3. Adjust to recommended pressure after beads are sealed.



This manual should be read in its entirety before operating the Riding Mower. The more you know and understand about the machine and its operation, the better job it will do for you. While reading the manual, compare the illustrations with your mower to familiarize yourself with the locations of various controls, lubrication points, attachments and adjustment features.

Study the operating instructions and safety precautions thoroughly to insure proper functioning of your mower and to prevent injury to yourself and others. Be sure to save this manual for future reference.

THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get maximum efficiency from cutting, the throttle should be in the "FAST" position when operating the mower. Pushing the throttle all the way forward past "FAST" will choke the engine. See figure 18.

IGNITION SWITCH

The ignition switch is located on the console. Remove the key when the mower is not in use. See figure 18.

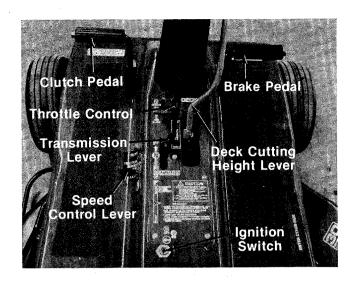


FIGURE 18. CONTROLS

DECK CUTTING HEIGHT LEVER

The deck cutting height lever is used to raise and lower the cutting deck which sets the cutting height.

Move the lever to the right, select desired cutting height and release lever. The lever may be set in any one of the four cutting height positions. See figure 19.

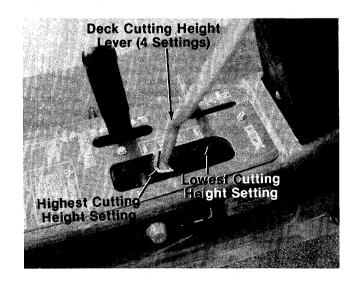


FIGURE 19.

BLADE ENGAGEMENT LEVER

The blade engagement lever is located on the left hand side of the deck. Figure 20 shows the blade engagement lever in the disengaged position.



FIGURE 20.

To engage the blade, move the blade toward the front of the unit as shown in figure 21. Move the lever toward the rear to disengage the blade.



FIGURE 21.

INTERLOCKS (Not Shown)

An interlock safety switch is located at the clutch pedal, at the blade engagement lever and at the chute. The clutch pedal must be pressed down and locked. The blade engagement lever must be in the "DISENGAGED" position (all the way back). The chute must be in operating position or a grass catcher must be in place before the engine can be started. Failure to follow these instructions will prevent starting.

TRANSMISSION LEVER

The transmission lever is located on the left hand side of the console and has three positions, "FORWARD," "NEUTRAL" and "REVERSE." The clutch and brake pedals must be depressed and the riding mower must not be moving when shifting gears. Do not force the transmission lever. Release the clutch pedal slightly to line up the shifting collar in the transmission. Then try to shift gears. See figure 22.

SPEED CONTROL LEVER

The speed control lever allows you to regulate the ground speed of the riding mower. See figure 22. It may be set in any one of five positions. To set, depress clutch pedal. Raise speed control lever and move forward to slow rider, move backward to increase speed. When desired speed has been obtained, place lever in that position. Whenever clutch is engaged, rider will automatically go to the pre-set speed.



The further forward the speed control lever is set, the slower the ground speed.

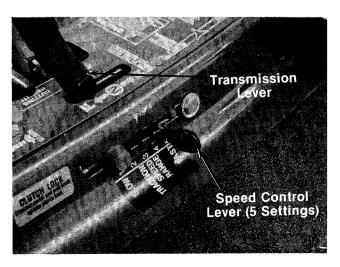


FIGURE 22.

BRAKE

To operate the brake, depress the right pedal all the way. To lock the brake in park position, depress the right pedal all the way and lift the brake lock. Pedal will stay in the depressed position. To release the parking brake, depress the pedal. See figure 23.

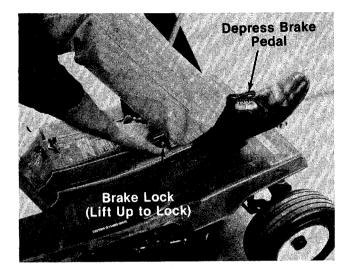


FIGURE 23. BRAKE PEDAL LOCK

CLUTCH PEDAL

The clutch pedal is located on the left side. When depressed, it disengages the engine from the transmission. It can be held in the disengaged position by lifting the clutch lock. To stop the mower, depress the clutch and brake pedals. See figures 23 and 24.

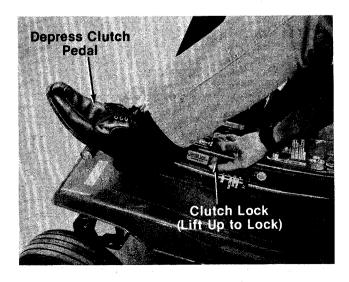


FIGURE 24. CLUTCH PEDAL LOCK

OPERATION



- 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.
- 5. Look to the rear before backing up.

CAUTION

DO NOT OPERATE MOWER UNLESS GUARD OR ENTIRE GRASS CATCHER IS IN ITS PROPER PLACE.

STARTING THE ENGINE



Get on and off the unit from the right hand side to avoid possible contact with the blade engagement lever.

- 1. Be sure the crankcase is filled with oil as recommended in the engine manual. Fill fuel tank with **regular** gasoline.
- 2. Attach the wire to the spark plug.
- 3. Depress the clutch pedal and lock it down.
- 4. Move the blade engagement lever back to the disengaged position.



This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch pedal is depressed and the blade engagement lever is in the disengaged position.



Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

- Set the throttle control lever in the "CHOKE" position.
- 6. Turn the ignition key to the "START" position. When the engine is running, let the key return to the "ON" position. See figure 18.
- 7. Slowly return the throttle to the running position as soon as the engine starts.
- 8. To stop, turn the ignition key to the "OFF" position. Remove the key when the rider is not in use.

PUTTING THE RIDING MOWER IN MOTION



CAUTION

Parking brake **must** be disengaged before unit is put into motion.

- 1. Advance the throttle control from 3/4 to full throttle to prevent strain on the engine and to operate the cutting blades.
- 2. Place the transmission lever in either the "FORWARD" or "REVERSE" position.



CAUTION

Look to the rear before backing up.

- 3. Slowly release the clutch pedal.
- 4. To stop, depress the clutch and the brake pedals.
- The blades can be engaged either while moving or while standing still. Move the blade engagement lever forward slowly until the blade is running.
- 6. Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.



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

STOPPING



Unit is equipped with separate brake and clutch pedals. It is necessary to disengage the clutch when applying the brakes to stop efficiently.

Engine—Turn the ignition key to the left to the "OFF" position.

Rider—Depress the clutch and brake pedals.

Blades—Pull the blade engagement lever all the way back.

GRASS CATCHER Model No. 191-041A is available as optional equipment for the mower shown in this manual.



The mower should not be operated without the entire grass catcher or chute deflector in place.



NOTE

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

For replacement bags, use only factory authorized replacement bag No. 764-0189.

ADJUSTMENTS



CAUTION

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

THROTTLE CONTROL To Check Operation:

- 1. Remove air cleaner.
- 2. Move throttle control lever to "CHOKE" position. The carburetor choke should be closed.
- 3. Move throttle control lever to "STOP" position. Lever should make good contact with stop switch.

To Adjust: (See figure 25)

Place remote control lever on equipment in "FAST" (high speed) position.

Lever C on carburetor should be just touching choke arm at D. To adjust, loosen casing clamp screw A on blower housing. Move control casing B forward or backward until correct position is obtained. Tighten screw A.

Recheck operation of controls after adjustment. Replace air cleaner.

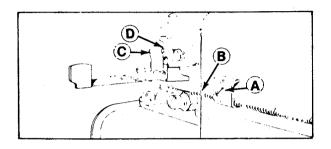


FIGURE 25. THROTTLE CONTROL ADJUSTMENT



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

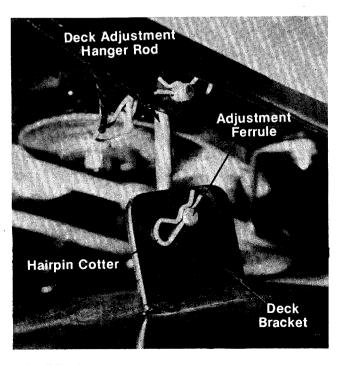


FIGURE 26.

DECK ADJUSTMENT HANGER ROD (See figure 26)

If an uneven cut is obtained, the deck may be adjusted. A deck adjustment hanger rod and ferrule is located on the left side of the unit.

To adjust the deck, remove the hairpin cotter which holds the ferrule into deck bracket. Thread ferrule upward on the deck adjustment hanger rod to raise left side of the deck. Thread ferrule downward to lower left side of deck. Replace the hairpin cotter after adjustment is made.

CHAIN ADJUSTMENT (See figure 27)

After the first five hours of operation, the initial slack should be removed from the chain. The chain should be tight enough so that it deflects approximately ½" when it is depressed with the thumb.

To Adjust:

The adjusting bolt is located under the frame, above the cutting deck on the right side of the mower. See figure 27.

Turn the adjusting bolt clockwise with an open end wrench until the chain reaches the proper tension.



If the transmission mounting plate will not slide forward to adjust the chain tension, it may be necessary to loosen the four nuts mounting the transmission to the frame.



Deck was removed for photographing.

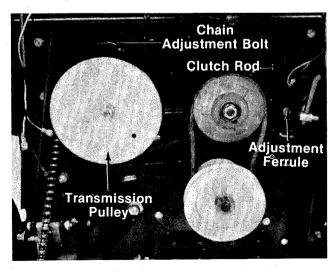


FIGURE 27. CHAIN ADJUSTMENT

CLUTCH ROD ADJUSTMENT

- 1. With the engine off, release the clutch lock.
- 2. There should be 1/2" of space between the end of slot and clutch lock button.
- 3. If there is not, remove the hairpin cotter from the ferrule. Remove the flat washer and pull the ferrule out of the variable speed pulley. Thread ferrule in or out on the clutch rod as necessary. Reassemble and check for correct adjustment. See figures 27 and 28.

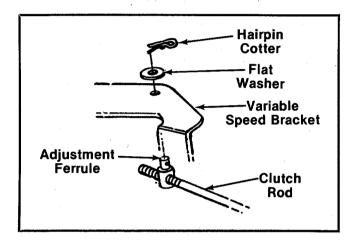


FIGURE 28.

BRAKE ADJUSTMENTS (See figure 29)

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.

The brake is located by the right rear wheel inside the frame.

To adjust the brake, remove the cotter pin. Tighten the castle nut one-quarter turn. Replace the cotter pin and test the brake.

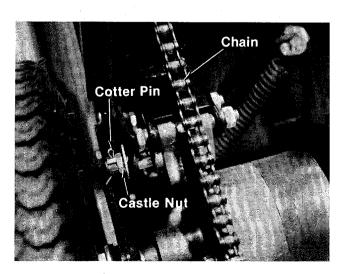


FIGURE 29.



Deck was removed for photographing.

LUBRICATION



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

- 1. **Engine.** Maintain the engine oil according to the engine manual.
- 2. **Bearings.** The following bearings are oil impregnated and do not require lubrication. However, their normal life can be extended by lubricating them once a season with a light, non-detergent oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.
 - a. King Pin Bearings (total 4 bearings)
 - b. Rear Axle Bearings (total 3 bearings)
 - c. Front Wheel Bearings (total 4 bearings)
- 3. Throttle Control and Cable. Wipe oiled rag along entire length of cable.
- Chain. Periodically lubricate chain lightly with oil. Wipe off excess oil, especially on the sprocket. Do not get oil on the disc brake. See figure 29.



Under extremely dusty conditions, do not oil the chain

- 5. **Linkage.** Oil all deck linkage and height adjustment linkage.
- 6. **Transmission.** It is lubricated at the factory and does not require checking. Lubricate with 4 oz. of Lubriplate No. 310 if disassembled.
- Differential. It is lubricated at the factory and does not require checking. Lubricate with 2 oz. of 450°F. High Temp. grease if disassembled. If ordered from the factory, use Part No. 737-0120.
- 8. Variable Speed Pulley. Apply dry lubricant between the variable speed bracket and the frame at least once a season.

MAINTENANCE



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

CUTTING BLADE

A. Removal for Sharpening or Replacement



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

- Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle. See figure 30.
- 2. Remove the blade and adapter from the spindle. Be careful not to lose the key on the spindle.
- If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter. See figure 30.

B. Sharpening

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

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

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



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

C. Reassembly

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

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

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max. 5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

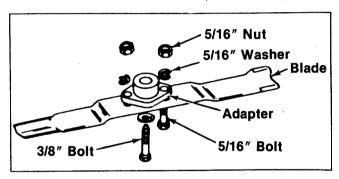


FIGURE 30. BLADE REMOVAL

CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

BELTS

Check that belts are free of oil or dirt. Wipe the belts periodically with a clean rag.



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

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation or each period of use. Refer to separate engine manual.

Change oil after first 5 hours of operation. Thereafter change every 25 hours. Change oil while engine is warm.

AIR CLEANER

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

SPARK PLUG

The spark plug should be cleaned and the gap reset to a 0.030-inch clearance once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type.



Whenever the spark plug is removed for cleaning, it is advisable to replace the spark plug gasket with a new gasket.

BATTERY MAINTENANCE

- Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.
- 2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less that 1.225, remove battery and recharge.
- Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
- 4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

BATTERY STORAGE

- Charge battery using normal methods. NEVER store discharged battery as it will not recover.
- When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
- 3. Store in cold, dry place.
- Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

COMMON CAUSES FOR BATTERY FAILURE ARE:

- 1. Overcharging
- 2. Undercharging
- 3. Lack of water
- Loose hold downs and/or corroded connections
- 5. Excessive loads
- 6. Battery electrolyte substitutes
- 7. Freezing of electrolyte



THESE FAILURES DO NOT CONSTITUTE WARRANTY.

BELT REMOVAL AND REPLACEMENT



It is recommended that the entire instructions on belt removal and replacement be read before changing the belts.

Preparation

- 1. Remove the battery from the unit.
- To prevent gasoline from leaking from the engine, remove the fuel tank cap, place a piece of thin plastic over the neck of the fuel tank and screw on the cap.
- 3. Disconnect the spark plug wire and ground it against the engine.

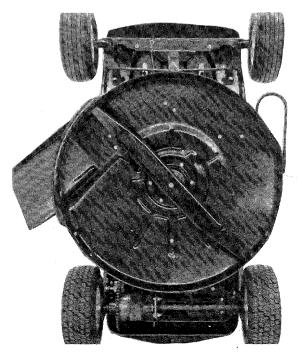


FIGURE 31.

- Tip the rider up on its back wheels. See figure 31. Tipping unit up against a wall is recommended.
- 5. Block unit to prevent tipping.

Removing the Cutting Deck:

1. Remove hairpin cotter from deck stabilizer rod at the front pivot bar. See figure 32.

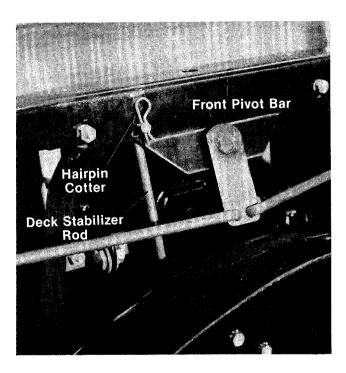


FIGURE 32.

2. Remove hairpin cotter from deck lift rod located at the front deck hanger bracket. See figure 33.

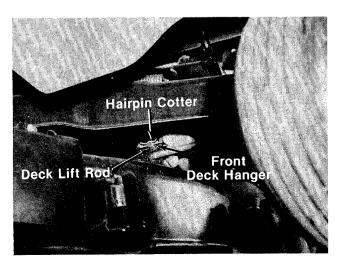


FIGURE 33.

 Unplug the green and yellow wire at the safety switch on the chute side of deck. Remove the green ground wire using a 7/16" wrench. See figure 34.



When reassembling the deck, plug the green wire into the top of the safety switch, and plug the yellow wire into the bottom of the safety switch.

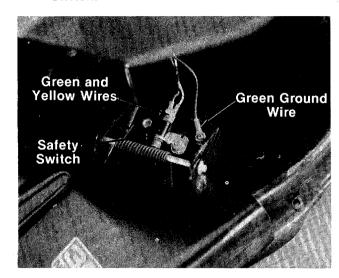


FIGURE 34.

4. Unplug the two red wires on the safety switch located on the left hand side of deck at the blade engagement lever. See figure 35.

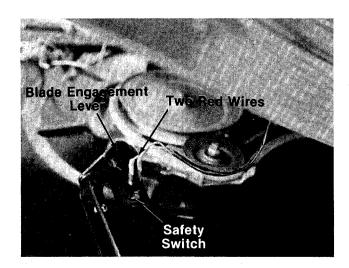


FIGURE 35.

5. Remove the belt keeper located at the right hand side of blade pulley on deck. A 1/2" wrench is required to remove the hex nut. See figure 36.

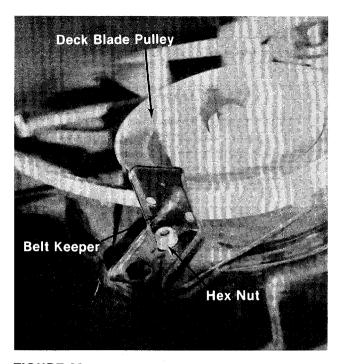


FIGURE 36.

6. Remove the hex lock nut from the idler pulley, located on the left hand side of the deck. A 9/16" wrench is required. See figure 37.



When reassembling idler pulley, the hub side of idler pulley must go (down) towards the idler bracket.

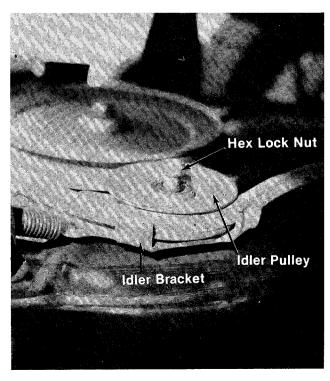


FIGURE 37.

 Remove the shoulder bolt and lock nut from the deck lift shaft assembly and deck bracket, located on right hand side of deck. See figure 38. A ½" wrench and 5/8" wrench are required.

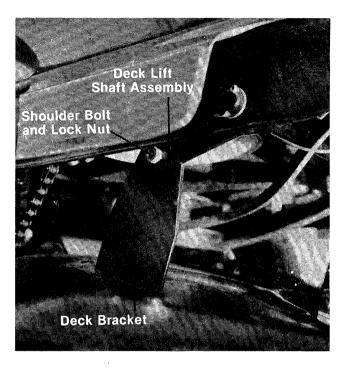


FIGURE 38.

8. Remove the hairpin cotter which holds the ferrule and deck hanger adjustment rod to the deck bracket, located on the left hand side of the deck. See figure 39.

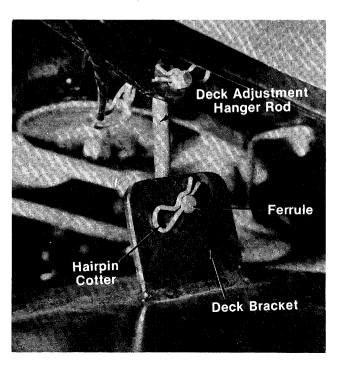


FIGURE 39.

9. Set the deck aside.

Removing the Cutting Deck Belt:

- 1. Follow preceding instructions on "Preparation" and "Removing the Cutting Deck."
- 2. Remove engine pulley belt guard assembly by removing two hex nuts, lock washers and flat washers as shown in figure 40. A 1/2" wrench is required.

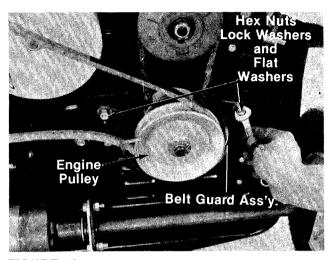


FIGURE 40.

3. Remove the deck belt from the engine pulley and replace with a new belt. Reverse the preceding steps to reassemble.

Removing the Drive Belts:

- Follow the instructions outlined under "Preparation" and "Removing the Cutting Deck."
- 2. Depress the clutch pedal and lock it. Remove the engine pulley by removing the hex bolt, lock washer and step washer shown in figure 41. A 9/16" wrench is required.

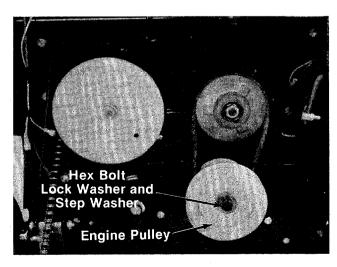


FIGURE 41.



Lubricate engine crankshaft with light oil before reassembling engine pulley.

3. Release the clutch pedal. Remove the transmission pulley by removing the hex nut and lock washer shown in figure 42. When sliding transmission pulley off shaft, be careful not to lose the key.



When reassembling the transmission pulley, the hub side of pulley goes (up) toward the rider frame.

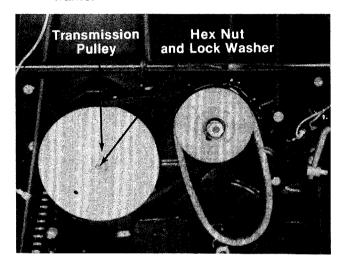


FIGURE 42.

4. Remove the variable speed pulley by removing the hex nut and lock washer shown in figure 43. A 3/4" wrench is required. Slip off variable speed pulley and both drive belts.

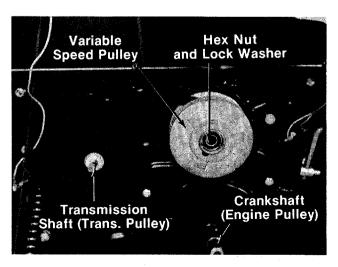


FIGURE 43.

5. Reverse the preceding steps to reassemble.



Be certain all belts are inside belt guards and keepers. Also, be sure to reassemble the safety wires: Two red, two green and one yellow.

OFF-SEASON STORAGE



Engines to be stored over 30 days should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, fuel filters, fuel lines and tank.

 Remove all fuel from fuel tank. Run the engine until it stops from lack of fuel. The small amount of fuel that remains in the sump of the tank should then be removed by absorbing it with a clean, dry cloth.

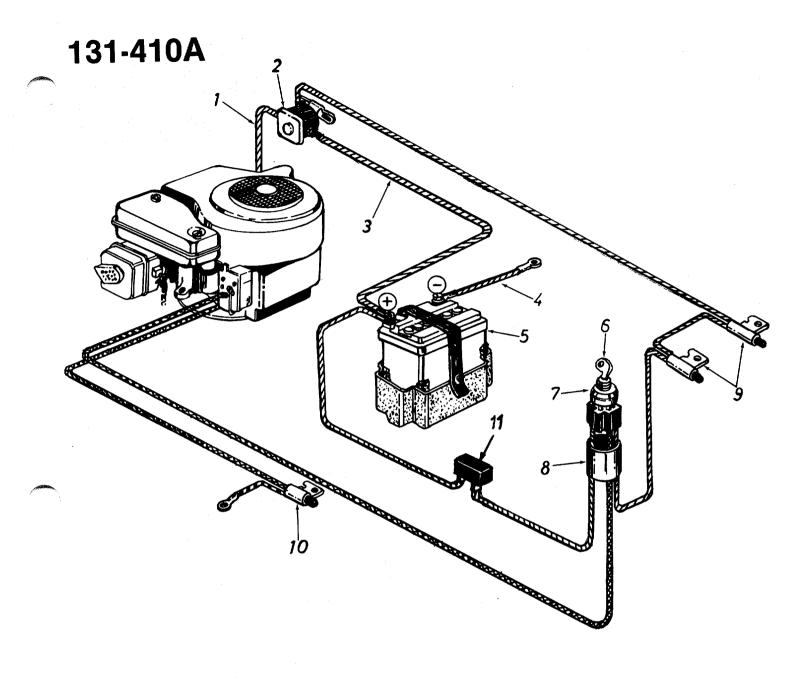
- 2. While engine is still warm, drain oil from crankcase. Refill with fresh oil.
- Remove spark plug, pour 1 ounce of SAE 30 oil into cylinder and crank slowly to distribute oil.
 To prevent accidental starting, DO NOT replace the spark plug.
- 4. Clean dirt and chaff from cylinder, cylinder head fins and blower housing.
- 5. Clean all grass from under side of deck.
- 6. Clean the air filter.
- 7. Place blocks under frame of mower so that the wheels are off the ground.
- 8. Cover all bare metal parts, such as the mowing edge of the blades, with grease to prevent rusting.
- 9. Cover the mower with a tarpaulin or other protective covering.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

		DEMENY					
TROUBLE	LOOK FOR	REMEDY					
Engine will not crank	Battery installed incor- rectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.					
	Blow fuse or circuit breaker	t Replace fuse with 7½ amp. fuse ¼ x 1¼" Ig. Circuit breaker will reset itself when it cools Fuses or circuit breakers seldom open or fail without a reason. The problem must be rected. Check for loose connections in the fuse holder. Replace fuse holder if necessar dead short may be in the cranking or charging circuit where the insulation may have rub through and exposed the bare wire. Replace the wire or repair with electrican's tape if the strands have not been damaged. Note: Look for a wire pinched between body panels, bur by the exhaust pipe or muffler or rubbed against a moving part.					
	Battery is dead or weak	Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger. Trickle Charger. Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp. Alternator (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.					
		Red Wire Diode Tube (Batt.) To Alternator Black Wire Polorized Plug					
		The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.					
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. If the engine does not crank: (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.					
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.					
		23					

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

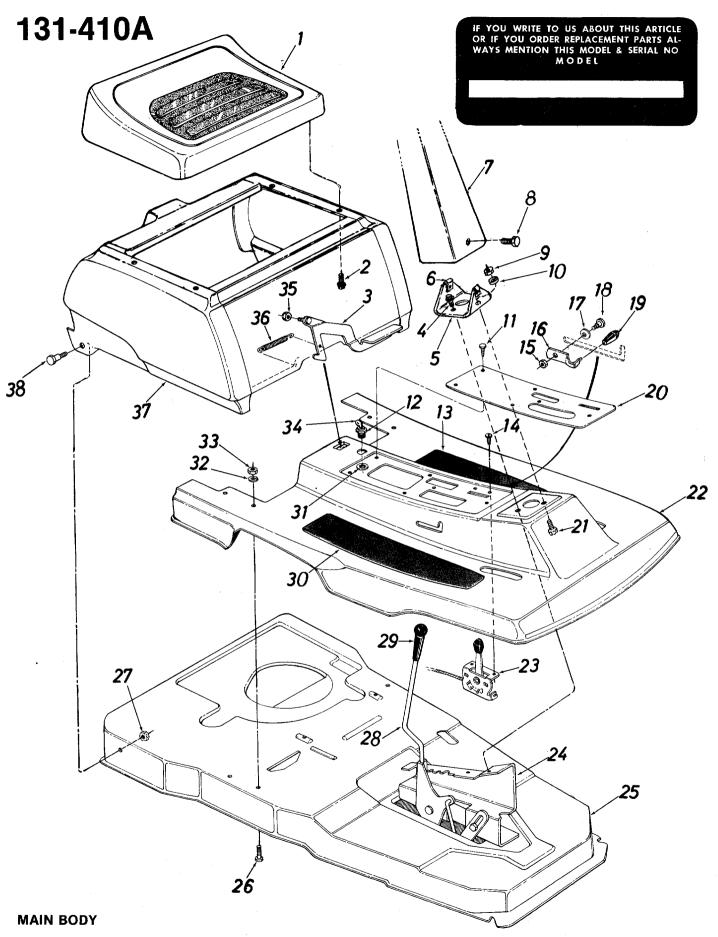
TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not seated or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	Stop engine immediately. Check all pulleys, blade spindles, blade adpaters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	Stop engine immediately. Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission gear. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only).



PARTS LIST FOR ELECTRICAL SYSTEM MODEL 131-410A

REF.	PART COLOR NO. CODE	DESCRIPTION	NEW PART
1	725-0150	Electric Wire (Starter)	
2	725-0530	Solenoid	
3	725-0422	Electric Wire (Pos. Cable)	
4	725-0150	Electric Wire (Neg. Cable)	
5	725-0514	12V-Battery	
6	725-0201	Ignition Key	
7	725-0267	Ignition Switch	
8	725-0747	Wire Harness	N
9	725-0268	Safety Switch—N.O.—Black	
10	725-0269	Safety Switch—N.C.—Red	
11	725-0459	Circuit Breaker	

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



PARTS LIST FOR MAIN BODY MODEL 131-410A

1			MAIN BODY MODEL 131-410A	
1 757-0265 2 710-0289 3 12144 4 710-0456 4 710-0456 5 13912 6 712-0526 7 731-0262 8 710-0473 7 731-0262 8 710-0473 7 736-0329 11 710-0456 12 725-0464 13 723-0241 14 710-0227 15 712-0107 16 14361 17 736-0105 18 738-0255 19 731-0189 20 12175 —456 21 710-0252 22 12128 —456 23 746-0429 24 12150 —456 25 710-0198 27 712-0158 28 14374 29 720-0143 28 Seat Complete Hex Bolt ¼-20 x .50" Lg.* Latch—Engine Cover Hex Drilling Scr. #10 x .50" Lg. Support Bracket Speed Nut #10-24 Thd. Steering Column Cover Truss Mach. Scr. #10-24 x .50" Lg.* Hex Nut ¼-20 Thd.* L-Wash. ¼-20 Thd.* L-Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Hex Cent. L-Nut ¼-20 Thd. Speed Control Stop Brkt. Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (¼-20 Thd.) Knob—Black Cover Plate Hex Bolt ¼-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* Hex Cent. L-Nut 5/16-18 Thd. Deck Lift Handle Ass'y. Grip—Black N	REF.	PART COLOR NO. CODE	DESCRIPTION	NEW PART
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4 710-0456 Hex Drilling Scr. #10 x .50" 5 13912 Support Bracket 6 712-0526 Speed Nut #10-24 Thd. 7 731-0262 Truss Mach. Scr. #10-24 x 8 710-0473 Truss Mach. Scr. #10-24 x 9 712-0287 Hex Nut ¼-20 Thd.* 10 736-0329 Hex Drilling Scr. #10 x .50" 11 710-0456 Hex Nut ¼-20 Thd.* 12 725-0464 Ignition Switch 13 723-0241 Foot Pad 14 710-0227 Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Hex Cent. L-Nut ¼-20 Thd. Speed Control Stop Brkt. Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (¼-20 Thd.) Knob—Black Cover Plate 17 70-0252 Hex Bolt ¼-20 x .75" Lg.* 18 73-0459 Throttle Control Ass'y. 20 746-0429 Throttle Control Ass'y. 24 12150 —456 12 771-0158 Index and Support Brkt. 26 710-0198 Hex Cent. L-Nut 5/16-18 Thd. 27 712-0158 Hex Cent. L-Nut 5/16-18 Thd. 28 14374 <	2		Latch—Engine Cover	
Lg. Support Bracket Speed Nut #10-24 Thd. Steering Column Cover Truss Mach. Scr. #10-24 x .50" Lg. Hex Nut ¼-20 Thd.* L-Wash. ¼" I.D.* Hex Drilling Scr. #10 x .50" Lg. Ignition Switch Foot Pad Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Ignition Switch Foot Pad Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Hex Cent. L-Nut ¼-20 Thd. Speed Control Stop Brkt. Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (¼-20 Thd.) Knob—Black Cover Plate Hex Bolt ¼-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* Hex Cent. L-Nut 5/16-18 Thd. Deck Lift Handle Ass'y. N Grip—Black Grip—Black N Grip — Black N Grip—Black N Grip—Blac		1	Hey Drilling Scr. #10 x 50"	
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712-0526 7 731-0262 8 710-0473 712-0287 9 712-0287 10 736-0329 11 710-0456 12 725-0464 13 723-0241 14 710-0227 15 712-0107 16 14361 17 736-0105 18 738-0255 19 731-0189 20 12175 —456 21 710-0252 22 12128 —456 21 710-0198 24 12150 —456 25 712-0198 27 712-0158 28 14374 29 720-0143 Speed Nut #10-24 Thd. Steering Column Cover Truss Mach. Scr. #10-24 x .50" Lg. Hex Nut ¼-20 Thd.* L-Wash. ¼" I.D.* Hex Drilling Scr. #10 x .50" Lg. Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Hex Cent. L-Nut ¼-20 Thd. Speed Control Stop Brkt. Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (¼-20 Thd.) Knob—Black Cover Plate Hex Bolt ¼-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* Hex Cent. L-Nut 5/16-18 Thd. Deck Lift Handle Ass'y. Grip—Black	_	12012		
7 731-0262	5		Speed Nut #10-24 Thd	
8 710-0473 Truss Mach. Scr. #10-24 x .50" Lg.* 9 712-0287 Hex Nut ¼-20 Thd.* 10 736-0329 L-Wash. ¼" I.D.* 11 710-0456 Hex Drilling Scr. #10 x .50" Lg. 12 725-0464 Ignition Switch 13 723-0241 Foot Pad 14 710-0227 Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. 15 712-0107 Hex Cent. L-Nut ¼-20 Thd. 16 14361 Speed Control Stop Brkt. 17 736-0105 Bell-Wash. 3/8" I.D. 18 738-0255 Shoulder Bolt .375 Dia. x .36 19 731-0189 Knob—Black 20 12175 —456 21 710-0252 Hex Bolt ¼-20 x .75" Lg.* 22 12128 —456 23 746-0429 Throttle Control Ass'y. 24 12150 —456 25 12125 —456 26 710-0198 Hex Sems Bolt 5/16-18 x .75" 27 712-0158 Hex Cent. L-Nut 5/16-18 Thd. 28 14374 Deck Lift Handle Ass'y. 29 </td <td></td> <td></td> <td>Steering Column Cover</td> <td></td>			Steering Column Cover	
9 712-0287 10 736-0329 11 710-0456 12 725-0464 13 723-0241 14 710-0227 15 712-0107 16 14361 17 736-0105 18 738-0255 19 731-0189 20 12175 —456 21 710-0252 22 12128 —456 23 746-0429 24 12150 —456 25 12125 —456 26 710-0198 27 712-0158 28 14374 29 720-0143 3 736-0329 1			Truce Mach Scr #10-24 v	
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Lg. Ignition Switch Foot Pad Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. Hex Cent. L-Nut ¼-20 Thd. Speed Control Stop Brkt. Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (¼-20 Thd.) Knob—Black Cover Plate Hex Bolt ¼-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* T12-0158 28 14374 29 720-0143 Grip—Black			L-Vasil. 74 I.D.	
12	11	710-0456		
Toology	12	725-0464	Ignition Switch	
#8 x .50" Lg. #8 call all all all all all all all all al		723-0241		
15	14	710-0227		
16 14361				
17 736-0105 18 738-0255 19 731-0189 20 12175 —456 21 710-0252 22 12128 —456 23 746-0429 24 12150 —456 25 12125 —456 26 710-0198 27 712-0158 28 14374 29 720-0143 Bell-Wash. 3/8" I.D. Shoulder Bolt .375 Dia. x .36 (1/4-20 Thd.) Knob—Black Cover Plate Hex Bolt 1/4-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* Hex Cent. L-Nut 5/16-18 Thd. Deck Lift Handle Ass'y. N	15	712-0107	Hex Cent. L-Nut 1/4-20 Thd.	
18	16	14361	Speed Control Stop Brkt.	N
(1/4-20 Thd.) 19 731-0189 20 12175 —456 21 710-0252 22 12128 —456 23 746-0429 24 12150 —456 25 12125 —456 26 710-0198 27 712-0158 28 14374 29 720-0143 (1/4-20 Thd.) Knob—Black Cover Plate Hex Bolt 1/4-20 x .75" Lg.* Floor Pan Throttle Control Ass'y. Comp. Index and Support Brkt. Main Frame Hex Sems Bolt 5/16-18 x .75" Lg.* Hex Cent. L-Nut 5/16-18 Thd. Deck Lift Handle Ass'y. N	17	736-0105	Bell-Wash. 3/8" I.D.	
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20 12175 —456 21 710-0252 22 12128 —456 23 746-0429				
21 710-0252	19	_		
22			Cover Plate	
23 746-0429 Throttle Control Ass'y. Comp. 24 12150 —456 25 12125 —456 26 710-0198 Hex Sems Bolt 5/16-18 x .75" Lg.* 27 712-0158 28 14374 Deck Lift Handle Ass'y. 29 720-0143 Grip—Black				
Comp. N 24 12150 —456 Index and Support Brkt. 25 12125 —456 Main Frame 26 710-0198 Hex Sems Bolt 5/16-18 x .75" Lg.* 27 712-0158 Hex Cent. L-Nut 5/16-18 Thd. 28 14374 Deck Lift Handle Ass'y. 29 720-0143 Grip—Black				
24	23	746-0429	l _	
25		1		N
26 710-0198	24			
Lg.* 27 712-0158 Hex Cent. L-Nut 5/16-18 Thd. 28 14374 Deck Lift Handle Ass'y. 29 720-0143 Grip—Black			Main Frame	
27 712-0158 Hex Cent. L-Nut 5/16-18 Thd. 28 14374 Deck Lift Handle Ass'y. 29 720-0143 Grip—Black	26	710-0198		
28 14374 Deck Lift Handle Ass'y. N 29 720-0143 Grip—Black			Lg.*	
29 720-0143 Grip—Black				
				N
		1 - 2 - 1 - 1 - 1		
	30		Foot Pad	
31 736-0225 Int. L-Wash. 5/8" I.D.		1	Int. L-Wash. 5/8" I.D.	
32 736-0119 L-Wash. 5/16" I.D.*			L-Wash. 5/16" I.D.*	
33 712-0267 Hex Nut 5/16-18 Thd.*				
34 725-0201 Ignition Keys		1	Ignition Keys	
35 712-0429 Hex Ins. L-Nut 5/16-18 Thd.		1		
36 732-0118 Extension Spring				
37 12132 —456 Cover Ass'y.		12132456	Cover Ass'y.	
38 738-0155 Shoulder Bolt .437 Dia. x	38	738-0155		
l 162″ La			.162" Lg.	

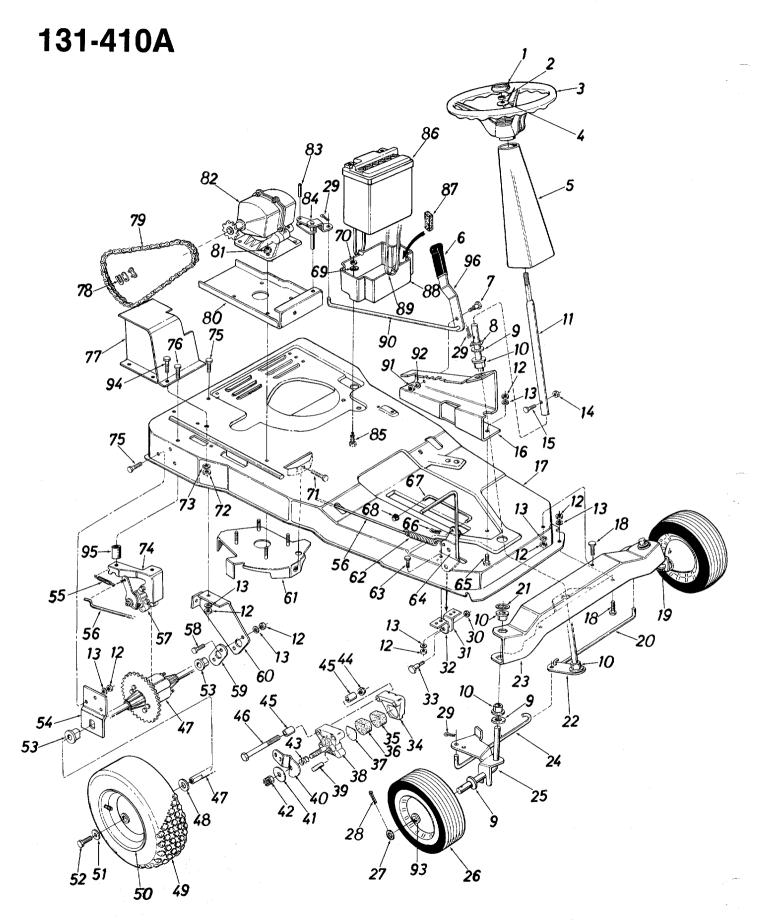
^{*}For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(456—Radiant Tangerine) When ordering parts if color or finish is important, use color code shown at left. (e.g. Radiant Tangerine Finish—12175 (456).)

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



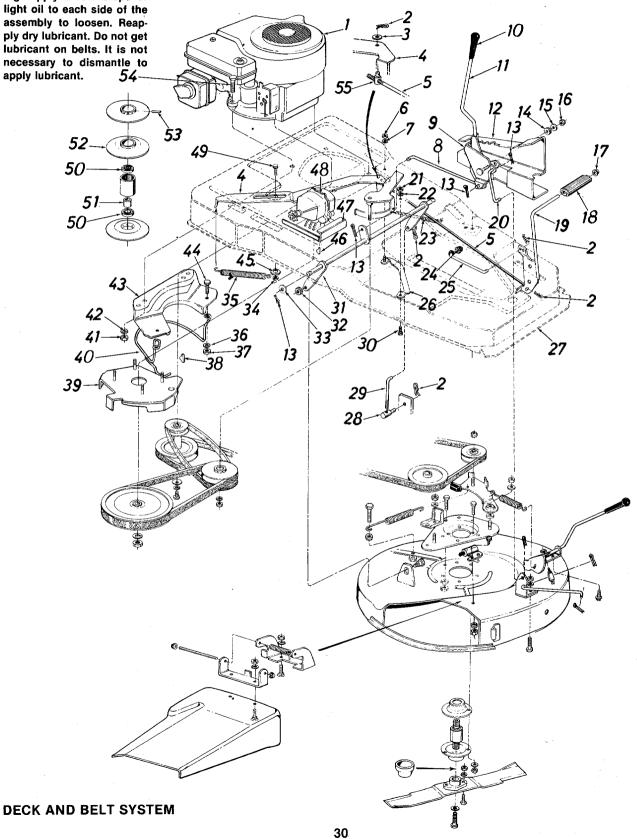
This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.



4	131-410A PARTS LIST FOR FRAME VIEW MODEL 131-410A							
REF NO.	. PART COLOR			REF.	PART COLOR NO. CODE		NEW PART	
1	731-0220	Steering Wheel Cap		50	734-0517	Rear Wheel Rim Only-6.0 x		
2	712-0158	Hex Cent. L-Nut 5/16-18 Thd.				3.25	1 1	
3	731-0219	Steering Wheel		51	736-0105	Bell-Wash. 3/8" I.D.		
1 4	736-0242	Bell-Wash345" I.D.		52	710-0627	Hex Bolt 5/16-24 x .75" Lg.		
5	731-0262	Steering Column Cover		E0.	744 0400	(Grade 5)		
6	720-0142	Flat Bar Grip—Black		53	741-0199	Flanged Brg.—Plastic .751 I.D.		
7	738-0140	Shoulder Bolt .437" Dia. x .180		54	14350	Axle Brkt.	N	
8	712-0222	Speed Nut		55	732-0118	Extension Spring	'	
9	736-0156	Fl-Wash635" I.D. x 1.12"		56	747-0128	Brake Rod 1/4" Dia. x 25.25"		
"	100-0100	O.D.			747 0120	Lg.		
10	741-0225	Hex Flange Bearing—Plastic		57	761-0130	Disc Brake Ass'y.	1 1	
11	750-0233	Steering Tube Ass'y.		58	710-0198	Hex Sems Bolt 5/16-18 x .75"		
12	712-0267	Hex Nut 5/16-18 Thd.*				Lg.*		
13	736-0119	L-Wash. 5/16" I.D.*		59	10470	Bearing Plate]	
14	712-0107	Hex Cent. L-Nut 1/4-20 Thd.		60	14351	Rear Axle Support Brkt.	N	
15	710-0428	Hex Bolt 1/4-28 x 1.25" Lg.		61	09780	Transmission Belt Guard		
16	12150	Index and Support Brkt.		60	722.0045	Ass'y.		
17	14335	Main Frame	N	62	732-0245	Extension Spring .90" O.D. x		
18	710-0198	Hex Sems Bolt 5/16-18 x .75" Lg.*		63	710-0198	Hex Sems Bolt 5/16-18 x .75"		
19	14353	Front Axle Ass'y.—L.H.	N	03	710-0196	Lg.*		
20	747-0147	Tie Rod—L.H.	13	64	12136	Brake Pedal Ass'y.		
21	726-0159	Push Nut .625" Shaft		65	710-0198	Hex Sems Bolt 5/16-18 x .75"		
22	12138	Steering Shaft Ass'y.				Lg.*		
23	12151	Front Wheel Bracket		66	714-0104	Int. Cotter Pin 5/16" Dia.		
24	747-0146	Tie Rod—R.H.		67	12419	Clutch Pedal Lockout Rod		
25	14352	Front Axle Ass'y.—R.H.	N			Ass'y.		
26	734-0949	Front Wheel Ass'y.—Comp.		68	726-0109	Push Cap 5/16" Dia.		
		11.00 x 4.50		69	736-0142	FI-Wash281 I.D. x .50 O.D. >	ζ	
27	736-0156	FI-Wash635" I.D. x 1.12"		70	740 0007	.063		
:	714-0470	O.D090 Cotter Pin 1/8" Dia. x 1.25"		70 71	712-0287 710-0117	Hex Nut 1/4-20 Thd.*		
8_ ا	114-0470	Cotter Pin 1/6 Dia. x 1.25 Lg.*		′ '	710-0117	Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5)		
29	714-0507	Cotter Pin 3/32" Dia. x .75"		72	712-0287	Hex Nut 1/4-20 Thd.*		
23	114-0507	Lg.*	-	73	736-0329	L-Wash. 1/4 " I.D.*		
30	712-0375	Hex Cent. L-Nut 3/8-16 Thd.		74	14356	Brake Brkt. Ass'y.	N	
31	12156	Pedal Pivot Brkt.		75	710-0198	Hex Sems Bolt 5/16-18 x .75"		
32	12155	Pedal Pivot Brkt.				Lg.*		
33	738-0234	Shoulder Bolt .500" Dia. x		76	710-0427	Hex Bolt 3/8-16 x 2.00" Lg.*		
١		.295		77	12510	Muffler Shield Ass'y.		
34	HH-12-03293	Casting—Carrier		78	713-0723	#41 Master Link 1/2" Pitch		
35	HH-15-03149	Friction Pad (D-Shaped)		79	713-0290	#41 Chain 1/2" Pitch x 77 Links		
36	HH-15-02124	1.110" Dia. x .245 Thk. Friction Pad (D-Shaped)		80	10247	Transmission Plate		
	1111-10-02124	1.110" Dia. x .472 Thk.		81	712-0429	Hex Ins. L-Nut 5/16-18 Thd.		
37	HH-03-03303	Back-Up Wash. 1.115" Dia. x		82	717-0223	Transmission Comp.		
		.08 Thk. (D-Shaped)		83	715-0103	Spring Pin Roll 1/8" Dia. x		
38	HH-12-03292	Casting—Cam				.75" Lg.		
39	HH-05-03034	Push Pin .309" Dia. x .857"		84	12170	Shift Brkt. Ass'y.		
1		Lg.		85	710-0377	Hex Sems Bolt 1/4-20 x .62"		
40	HH-18-03493	Cam Lever 22°		00	705 054 4	Lg.*		
41	HH-03-03032	Wash349 I.D. x 1.004" O.D.		86	725-0514	12V-Battery		
42	712-0134	x .066 Thk. Hex Top L-Nut 5/16-24 Thd.		87 88	722-0135 731-0534	P.V.C. Foam 1" x 2" x 1/2" Battery Box	,	
43	HH-06-03031	Spring—Compres350" Dia.		89	735-0204	Rubber Band	N	
73	1111-00-00001	x 4 Coils		90	747-0136	Shift Rod	'1	
44	712-0158	Hex Cent. L-Nut 5/16-18 Thd.		91	712-0267	Hex Nut 5/16-18 Thd.*		
45	761-0133	Spacer for Disc Brake		92	736-0119	L-Wash. 5/16" I.D.*		
46	710-0395	Hex Bolt 5/16-18 x 2.25" Lg.*		93	741-0313	Flange Bearing .630" I.D.—		
No. of Street, or other Persons	717-0328	Differential Ass'y.—Comp.		_		Plastic		
ز ا	736-0134	FI-Wash812" I.D. x 1.38"		94	710-0258	Hex Bolt 1/4-20 x .62" Lg.*		
40	724 0500	O.D. x .100		95	750-0511	Spacer .62 O.D. x .38 I.D. x	,,	
49	734-0523	Rear Wheel Ass'y.—Comp. 13 x 5.00-6		96	12169	1.50" Shift Lever	N	
	734-0298	Tire Only 13 x 5.00-6		30	12103	Omit Level		
<u></u>	1.07 0200	1 1110 Only 10 A 0.00-0		<u> </u>		<u> </u>		

NOTE: If mower fails to respond to speed control lever, it is possible that the variable speed pulley is seizing. Apply a few drops of light oil to each side of the assembly to loosen. Reapply dry lubricant. Do not get lubricant on belts. It is not necessary to dismantle to apply lubricant.

For parts on bottom of this page, refer to page 32.

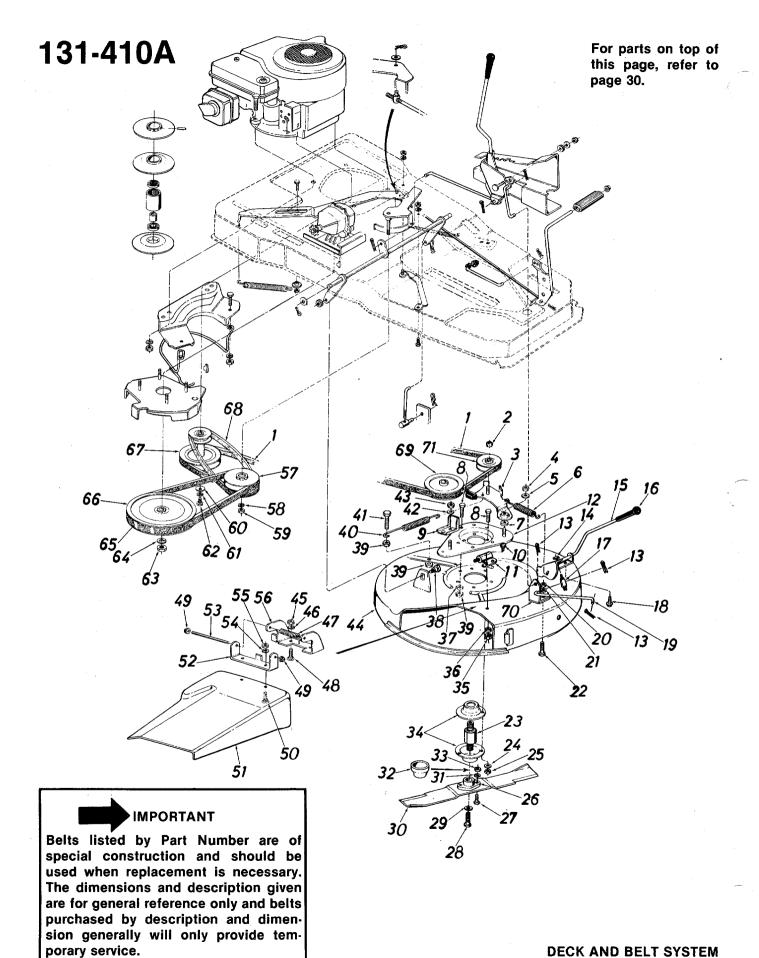


PARTS LIST FOR DECK AND BELT SYSTEM MODEL 131-410A

ĒF. ۸٥.	PART COLOR NO. CODE	DESCRIPTION	NEW PART		PART NO.	COLOR	DESCRIPTION	NEW PART
1		Engine		30	710-019	98	Hex Sems Bolt 5/16-18 x .75"	i i
2	714-0104	Hairpin Cotter				-	Lg.*	
3	736-0264	FI-Wash.		31	12139	—456	Deck Lift Shaft Ass'y.	
4	09785	Variable Speed Brkt. Ass'y.	·	32	712-01	58	Hex Cent. L-Nut 5/16-18 Thd.	
5	747-0316	Clutch Rod		33	736-01	16	FI-Wash635 I.D. x .93" O.D.	
6	712-0798	Hex Nut 3/8-16 Thd.*		34	712-04	29	Hex Ins. L-Nut 5/16-18 Thd.	
7	736-0217	L-Wash. 3/8" I.D. (Heavy		35	732-019	92	Spring .88" O.D. x 3.75" Lg.	
		Duty)					(Var. Drive)	
8	747-0125	Handle Lift Rod 3/8" Dia.		36	736-01		L-Wash. 5/16" I.D.*	
9	14362	Deck Lift & Float Brkt. Ass'y.	N	37	712-02		Hex Nut 5/16-18 Thd.*	
10	720-0143	Grip—Black		38	714-03	65	#6 Hi-Pro Key 5/32" x 5/8"	
11	14374	Deck Lift Handle Ass'y.	N				Dia.	
12	12150 —456	Index and Support Brkt.		39	09780		Transmission Belt Guard	
13	714-0507	Cotter Pin 3/32" Dia. x .75"	:				Ass'y.	
		Lg.*		40	747-03		Belt Guard Ass'y.	N
14	735-0126	Rubber Wash33" I.D. x .87"		41	712-02		Hex Nut 5/16-18 Thd.*	
		O.D.		42	736-01	19	L-Wash. 5/16" I.D.*	1
15	736-0101	FI-Wash406" I.D. x 1.0"		43	10423		Engine Belt Guard Ass'y.	
		O.D.		44	710-01	98	Hex Sems Bolt 5/16-18 x .75"	
16	712-0116	Hex Ins. L-Nut 3/8-24 Thd.		4-	744.04		Lg.*	
17	726-0221	Push Cap ½ " Dia.		45	711-04		Shoulder Nut	
18	731-0142	Foot Pedal—Bar Grip		46	714-01	29	#4 Hi-Pro Key 3/32" x 5/8"	
19	12133	Clutch Pedal Ass'y.		4-7	40047		Dia.	
20	747-0368	Deck Lift Rod 3/8" Dia.	N	47	10247	00	Transmission Plate	
21	712-0267	Hex Nut 5/16-18 Thd.*		48	717-02		Transmission Ass'y.—Comp.	1
22	736-0119	L-Wash. 5/16" I.D.*		49	710-03	22	Hex Sems Bolt 5/16-18 x 1.00" Lg.*	
23	732-0233	Tension Spring		50	741-01	20	Ball Bearing .50" I.D. x 1.30"	
4	726-0109 12419	Push Cap 5/16" Dia. Clutch Pedal Lockout Rod		50	741-01	აყ	O.D.	
∠5 26	12419 10173	Variable Speed Guide Brkt.		51	750-01	46	Spacer .520" I.D. x .692" O.D	
20	10173	Ass'y.		52	748-01		Moveable Sheave Ass'y.	1
27	14335 —456	Main Frame		53	715-01		Spring Pin Spir. 5/32" Dia. x	
28	711-0677	Adjustment Ferrule		55	710-01		.62" Lg.	
29	747-0364	Deck Adjustment Hanger		54	710-04	42	.02 Lg. Hex Bolt 5/16-18 x 1.50" Lg.*	
29	141-0004	Rod	l N	55	711-03		Adjustment Ferrule	
		Tiou	'`	- 55	, , , ,	~-	, ajaounone i onaio	
								<u> </u>

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

(456—Radiant Tangerine) When ordering parts if color or finish is important, use color code shown at left. (e.g. Radiant Tangerine Finish—12175 (456).)

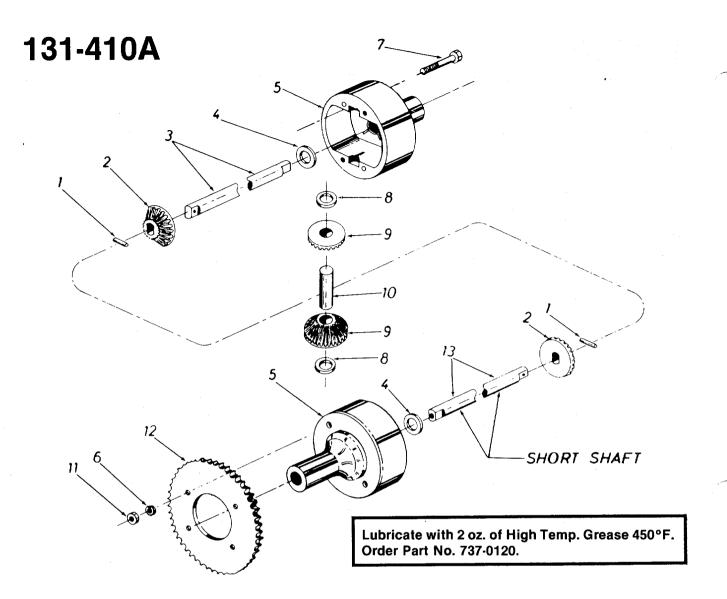


PARTS LIST FOR DECK AND BELT SYSTEM MODEL 131-410A

A STATE OF THE PARTY OF THE PAR	EF.	PART COLOR NO. CODE	DESCRIPTION	NEW PART	REF.	PART COL NO. CO		DESCRIPTION	NEW PART
1	1	754-0251	Deck "V"-Belt 1/2" x 51.24"		35	712-0287		Hex Nut 1/4-20 Thd.*	
			Lg.		36	736-0329		L-Wash. 1/4" I.D.*	
	2	712-0116	Hex Ins. L-Nut 3/8-24 Thd.		37	736-0119		L-Wash. 5/16" I.D.*	
ı l	3	15224	Deck idler Brkt. Ass'y.		38	738-0141	1	Shld. Bolt .437" Dia. x .350	
- 1	4	712-0267	Hex Nut 5/16-18 Thd.*		39	712-0267	1	Hex Nut 5/16-18 Thd.*	
	5	736-0231	FI-Wash344" I.D. x 1.12"		40	732-0308		Ext. Spring .50" O.D. x 6.37"	
	•		O.D.				-	Lg.	
	6	732-0400	Ext. Spring .62" O.D. x 3.06"		41	710-0376		Hex Bolt 5/16-18 x 1.0" Lg.*	
			Lg.		42	736-0119		L-Wash. 5/16" I.D.*	
	7	750-0258	Spacer .315" I.D. x .75" O.D.		43	712-0267	-	Hex Nut 5/16-18 Thd.*	
- 1	•		x .37		44	14371		30" Deck Ass'y.	N
ŀ	8	710-0118	Hex Bolt 5/16-18 x .75" Lg.*		45	712-0287	l	Hex Nut 1/4-20 Thd.*	
		10426	Belt Keeper Ass'y.		46	736-0329		L-Wash. 1/4" I.D.*	
		710-0258	Hex Bolt 1/4-20 x .62" Lg.*		47	732-0370		Torsion Spring	
		725-0269	Safety Switch—N.C.		48	710-0134		Carr. Bolt 1/4-20 x .62" Lg.*	
		15076	Spindle Mtg. Brkt. Ass'y.		49	726-0106	- 1	Push Nut 1/4" Rod	:
	13	714-0507	Cotter Pin 3/32" Dia. x .75"		50	710-0134		Carr. Bolt 1/4-20 x .62" Lg.*	
- 1	.		Lg.*		51	15198		Chute Deflector Ass'y.	
	14		Part of Ref. No. 17		٥.	10100		Comp.	
	15	14366	Deck Engagement Handle		52	15192		Deflector Hinge Brkt.	
	.	14000	Ass'y.	N	53	747-0303		Hinge Pin	
ŀ	16	720-0143	Grip—Black	'`	54	736-0329	l	L-Wash. 1/4 " I.D.*	
	17	725-0268	Safety Switch—N.O.		55	712-0287	1	Hex Nut 1/4-20 Thd.*	1
	18	710-0599	Hex Wash. Hd. Self-Tap Scr.		56	15226		Deck Hinge Brkt.	
	'	1 10 0000	1/4-20 x .50" Lg.	1	57	10438		Var. Spd. Pulley Ass'y.	
	19	747-0366	Deck Stabilizer Rod 3/8" Dia.		٥.	12168		Var. Spd. Pulley and Brkt.	
	"	141-0000	x 8.8" Lg.	N		12100	1	Ass'y.—Comp.	
	2 0	712-0267	Hex Nut 5/16-18 Thd.*	''	58	736-0921	ł	L-Wash. ½" I.D.*	
	1	736-0119	L-Wash. 5/16" I.D.*		59	712-0384		Hex Cent. L-Nut ½-13 Thd.	
	22	710-0118	Hex Bolt 5/16-18 x .75" Lg.*		60	711-0572		Step Wash. (For Engine	
		741-0211	Blade Spindle		Ų	711-0072		Pulley)	
		736-0119	L-Wash. 5/16" I.D.*		61	736-0217		L-Wash. 3/8" I.D. (Heavy	
		712-0267	Hex Nut 5/16-18 Thd.*		0 '	750-0217		Duty)	
	26	753-0210	Kit—Blade Adapter Ass'y.	ľ	62	710-0331		Hex Bolt 3/8-24 x 2.25" Lg.*	
	27	710-0117	Hex Bolt 5/16-24 x 1.00" Lg.		63	712-0922		Hex Jam Nut ½-20 Thd.	1
	۱ ۲	710-0117	(Grade 5)		64	736-0921		L-Wash. ½" I.D.*	
	28	710-0180	Hex Bolt 3/8-24 x .75" Lg.		65	754-0136		Transmission "V"-Belt 21/32"	'
	20	710-0160	(Grade 5)		00	754-0150		x 31" Lg.	1
	29	736-0217	L-Wash. 3/8" I.D. (Heavy		66	756-0174		Transmission Pulley .50" I.D.	
		. 50 02.17	Duty)		67	756-0378		Engine Two-Step Pulley	N
	30	742-0193	30" Blade		68	754-0187		Engine Drive "V"-Belt 21/32"	
	31	736-0119	L-Wash. 5/16" I.D.*		"			x 24" Lg.	
	32	_	Order Ref. No. 26	·	69	756-0291		Pulley 7.00" O.D.	
		712-0123	Hex Nut 5/16-24 Thd.*	:	70	12153		Front Deck Brkt.	
		12724	Bearing Housing		71	756-0116		Idler Pulley	
L		16/67	Downing Housing	L		.000110		raior i unoy	

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

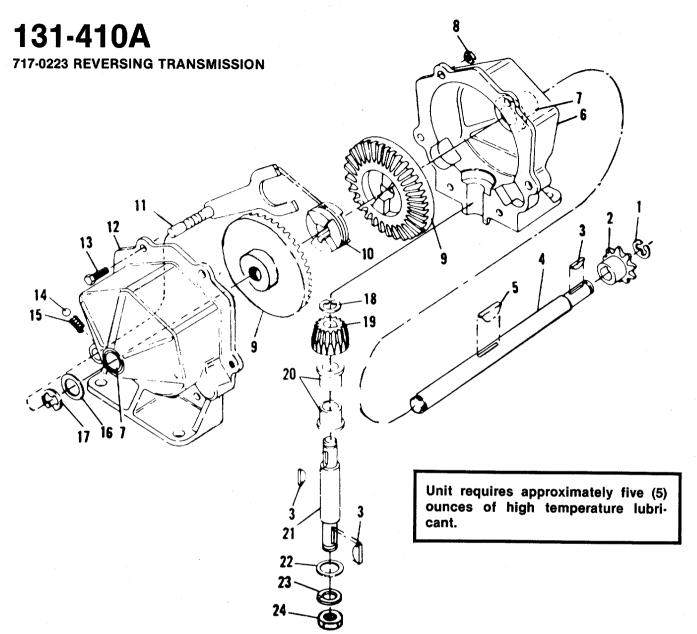
(456—Radiant Tangerine) When ordering parts if color or finish is important, use color code shown at left. (e.g. Radiant Tangerine Finish—12175 (456).)



PARTS LIST FOR DIFFERENTIAL ASSEMBLY 717-0328

REF.		Qty. Req'd.	DESCRIPTION	NEW PART
1	715-0247	2	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	
2 3	748-0185 738-0300	2	Gear—Double "D" Hole Shaft—Long 19.31" Lg.	
4 5 6	736-0188	2	FI-Wash760 I.D. x 1.49 O.D.	
5	717-0341	2 2	Housing Half	
6	736-0119	2	L-Wash. 5/16" Scr.*	
7	710-0363	2	Hex Scr. 5/16-24 x 4.00" Lg.*	
8	736-0187	2 2 2	FI-Wash640 I.D. x 1.24 O.D.	
9	748-0158		Gear—Round Hole	
10	711-0276	1	Drive Pin ·	
11	712-0237	2	Hex Cent. L-Nut 5/16-24 Thd.	
12	09054	1	Sprocket—40 Tooth	
13	738-0301	1	Shaft—Short 7.07" Lg.	

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



PARTS LIST FOR REVERSING TRANSMISSION 717-0223

,			FARIO LIGITOR NEVI		<u> </u>	THIS SHIP	JOIO11	111.0220	
REF.	PART NO.	COLOR	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	716-010	4	E-Ring for .500" Dia. Shaft		14	741-086	2	Detent Ball	
2	748-085	2	Sprocket 8 Tooth		15	732-086	3	Detent Spring	
3	714-012	9	#4 Hi-Pro Key 3/32 x 5/8"		16	736-011	6	FI-Wash635 I.D. x .93 O.D.	
ļ			Dia.		17	716-010	6	E-Ring for .625" Dia. Shaft	
4	711-085		Output Shaft		18	716-086	5	Snap Ring for .500" Dia.	
5	714-012	_	#9 Hi-Pro Key 3/16 x 3/4" Dia.					Shaft	
6	717-012	_	Trans. Case—L.H. Comp.		19	748-086	6	Pinion Gear	1
7	748-085		Flange Brg.		20	748-086	7	Bearing .627 I.D.	1
8	712-011	-	Hex Centerlock 1/4-28*		21	738-015	9	Pinion Shaft	
9	748-085		Bevel Gear		22	736-019	2	FI-Wash531 I.D. x .93 O.D.	
10			Clutch Collar		23	736-092	1	Spring L-Wash. 1/2" Scr.*	1
11	08583		Shift Yoke Ass'y.		24	712-092	2	Hex Jam Nut 1/2-20 Thd.*	
12	717-012	4	Trans. Case—R.H.—Comp.		25	737-012	0	Grease—High Temp. 450°F.	
		_	(With Detent Hole)					(5 oz.)	:
្នាំ 13	710-019	5	Hex Hd. Cap Scr. ¼-20 x		26	717-022	3	Transmission Complete	
			.62" Lg.*						

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

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

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

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

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

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

ALABAMA	BIRMINGHAM
Auto Electric & Carburetor Co.	BIRMINGHAM 2625 4th Ave. S35233
Mity Mite Motors Inc	FORT SMITH 4515 S. 16th St 72901
Wilty Wille Wiotors, Mc	NORTH LITTLE POCK
Outtonia Laura Maurian Cham	NORTH LITTLE ROCK Rt. 4, Box 36872117
Sutton's Lawn Mower Snop	Ml. 4, BUX 300
CALIFORNIA	PORTERVILLE 75 North D Street93257
Billious	75 North D Street93257
	SAN FRANCISCO
J.W. Jewett Co	SAN FRANCISCO 981 Folsom St 94107
001 00400	DENVED
COLORADO	DENVER Box 59, 43 W. 9th Ave 80201
Spitzer industrial Products Co.	Box 59, 43 W. 9th Ave80201
FLORIDA	JACKSONVILLE
FLORIDA Radco Distributors	4909 Victor St.
	Roy 5/150 32207
	OPA LOCKA
Small Eng. Dist	OPA LOCKA 2351 N.W. 147th St 33054
onan Eng. Dist	2001 14.44. 147 (1101
GEORGIA	EAST POINT
East Point Cycle & Key	2834 Church St 30344
ILLINOIS	LYONS 8615 Ogden Ave 60534
Keen Edge Co.	8615 Orden Ave 60534
INDIANA	ELVIADT
INDIANA	ELKHART 2101 Industrial Pkwy46514
Parts & Sales Inc	2101 Industrial Pkwy 46514
IOWA	DUBUQUE
Power Lawn & Garden Equip	2551 J.F. Kennedy 52001
LOUISIANA	NEW ORLEANS 8330 Earhart Blvd70118
Suhren Engine Co	8330 Earhart Blvd70118
MARYLAND Center Supply Co	TAKOMA PARK
Contor Cupply Co	6967 Now Homoshira
Center Supply Co	Ave 2001
	Ave
MASSACHUSETTS	SPRINGFIELD
Morton B. Collins Co	300 Birnie Ave 01107
MICHIGAN	LANSING 2500 S. Pennsylvania 48910
Lorenz Service Co	2500 S Pennsylvania 48010
Lorenz dervice co	MOUNT OF EMENS
Dawer Favinment Diet	MOUNT CLEMENS 36463 South Gratiot 48043
Power Equipment Dist	30403 South Gratiot 40043
MINNESOTA	HOPKINS 420 Excelsior Ave. W55343
Hance Distributing Inc	420 Excelsior Ave. W 55343
MISSISSIPPI	BILOXI
Bilovi Sales & Service Inc	BILOXI 506 Caillavet St 39533
Biloxi Sales & Service, mc	500 Camaret Ct
MISSOURI	KANSAS CITY 3117 Holmes St 64109
Automotive Equip. Service	3117 Holmes St 64109
	ST. JOSEPH
Ross-Frazier Supply Co	ST. JOSEPH 8th and Monterey 64503
	ST. LCUIS 2015 Lemay Ferry Road 63125
Henzler, Inc.	2015 Lemay Ferry Road 63125
NEW JERSEY	DELIMAND
MEM JEUGET	BELLMAWR 717 Creek Rd
Lawnmower Parts Inc	/ г/ Стеек на
NEW YORK	CARTHAGE West End Ave13619
Gamble Dist., Inc	West End Ave13619
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NORTH CAROLINA Smith Hardware Co	GOLDSBORO
Smith Hardware Co	515 N. George St 27530
	GREENSBORO
Dixie Sales Company	335 N. Green 27402
ОНЮ	CARROLL
Stebe's Mid-State Mower Supply	. Box 366, 71 High St 43112
Stebe's Mid-State Mower Supply Bleckrie, Inc	CLEVELAND
Bleckrie, Inc	/900 Lorain Ave44102
National Central	WAUSWURIT
National Central	VOUNCETOWN
Burton Supply Co	1301 Logan Ave
	Rox 929 44501
OKLAHOMA	MUSKOGEE
OKLAHOMA Victory Motors, Inc.	605 S. Cherokee 74401
Forest Sales Inc.	OKLAHOMA CITY
Forest Sales Inc	6415 N. Olie73116
OREGON Kenton Supply Co.	PORTLAND
Kenton Supply Co	8216 N. Denver Ave 97217
PENNSYLVANÍA Stull Equipment Corp	CHESTER
Stull Equipment Corp	742 W. Front St 19013 HARRISBURG
EECO Inc.	A021 N 6th Ct 17110
	DUII ADELDUIA
Thompson Rubber Co	5222-24 N Fifth St 19120
Bluemont Co	11125 Frankstown Rd 15235
Bluemont Co.	PUNXSUTAWNEY
Frank Roberts & Sons	RD 2 15767
TENNESSEE Master Repair Service	KNOXVILLE
Master Repair Service	2000 Western Ave 37921
American Calan & Camina Inc	MEMPHIS
American Sales & Service, Inc TEXAS	DALLAS
Marr Brothers, Inc.	423 F lefferson 75203
Mail Biothers, Inc	FORT WORTH
Woodson Sales Corp	1702 N Sylvania 76111
110000011 00100 001p	HOUSTON
Bullard Supply Co	2409 Commerce St77003
	SAN ANTONIO
Catto & Putty, Inc	414 Live Oak 78298
UTAH A-1 Engine & Mower Co	SALT LAKE CITY
A-1 Engine & Mower Co	437 E. 9th St 84111
VERMONT Vermont Hdwe. Co. Inc	BURLINGION 05404
VIRGINIA RBI Corp	ASHLAND
·	101 Coder Run Dr 23005
WASHINGTON	SFATTI F
Pailey's Inc	1/1// 1/th Ava 02102
WEST VIRGINIA	CHARLESTON
Young's, Inc.	233 Virginia St., E 25301
WISCONSIN Power Pac	MARSHFIELD
Power Pac	301 E. 29th St54449

WARRANTY PARTS AND SERVICE POLICY

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

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

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

All claims MUST be substantiated with the following information:

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