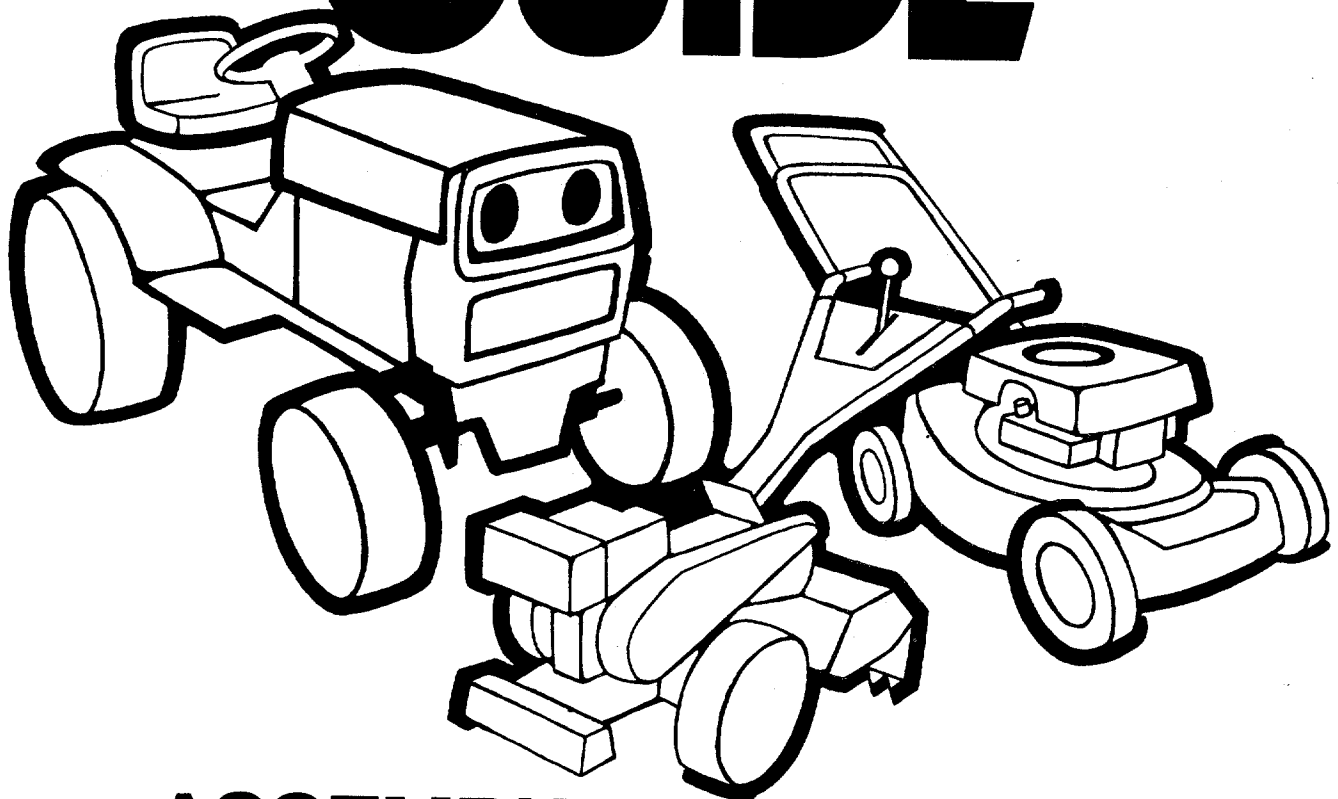


# OWNER'S GUIDE



**ASSEMBLY  
OPERATION  
MAINTENANCE  
PARTS LIST**

**IMPORTANT:  
Read Safety Rules  
and Instructions**

**MODEL NUMBER  
130-497A**

**38"  
LAWN  
TRACTOR**

*3 SPEED*

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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.



**WARNING**

### 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.

# **IMPORTANT**

It is suggested that this manual be read in its entirety before attempting to assemble or operate. Keep this manual in a safe place for future reference and for ordering replacement parts.

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and amount.

This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.

## **SAFE OPERATION PRACTICES FOR RIDING VEHICLES**

1. Know the controls and how to stop quickly—**READ THE OWNER'S MANUAL.**
2. 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.
3. Do not carry passengers
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction.
5. Clear work area of objects which might be picked up and thrown by the mower in any direction.
6. Disengage all attachment clutches and shift into neutral before attempting to start engine.
7. Disengage power to attachment(s) and stop engine before leaving operating position.
8. 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.
9. Before attempting to unclog the mower or discharge chute, stop the engine and 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.
10. Disengage power to attachment(s) when transporting or not in use.
11. 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.
12. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
13. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
14. Stay alert for holes in terrain and other hidden hazards.
15. 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.
16. Watch out for traffic when crossing or near roadways.
17. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
18. 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.
19. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
20. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
21. 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.
22. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
23. 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.
24. Do not change the engine governor settings or overspeed the engine.
25. 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.
26. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
27. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

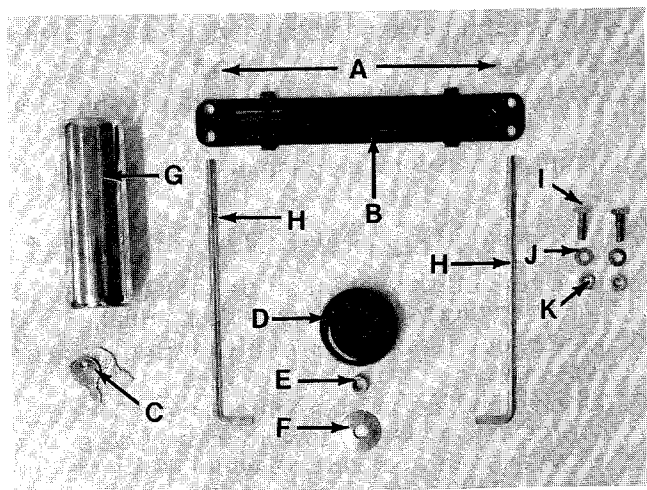


FIGURE 1.

## ASSEMBLY

### Contents of Hardware Pack: (See figure 1)

- A (2) Plastic Wing Nuts
- B (1) Battery Hold Down
- C (2) Ignition Keys
- D (1) Steering Wheel Cap
- E (1) Hex Lock Nut 5/16-24 Thread
- F (1) Belleville Washer
- G (1) Steering Tube
- H (2) Battery Hold Down Rods
- I (2) Hex Bolts 1/4-20 x .50" Lg.
- J (2) Lock Washers 1/4" I.D.
- K (2) Hex Nuts 1/4-20 Thread

### Loose Parts in Carton:

- L (1) Steering Wheel (Not Shown)
- M (1) Battery Pack (Not Shown)



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

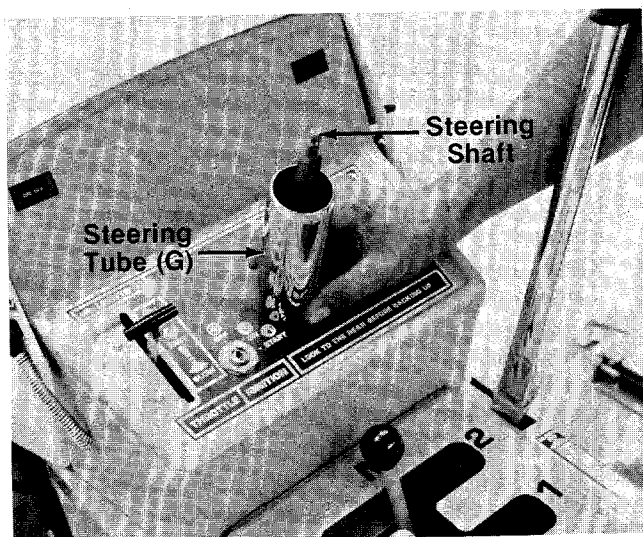


FIGURE 2.

1. Place the steering tube (G) over the steering shaft. See figure 2.

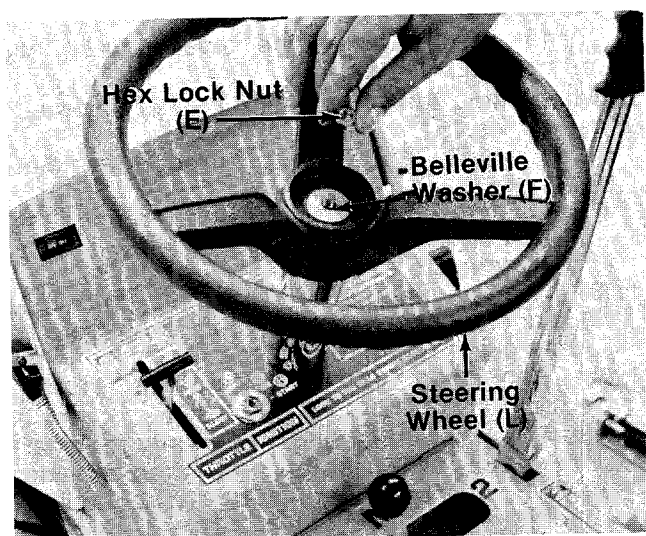


FIGURE 3.

2. Place the steering wheel (H) over steering shaft and steering tube. See figure 3.
3. Secure steering wheel (L) with belleville washer (F) (cup side down) and hex lock nut (E). See figure 3. A 1/2" wrench is required.

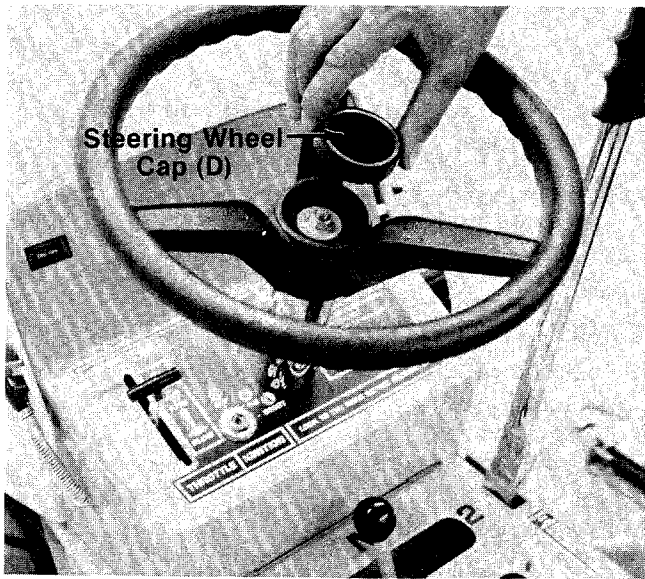


FIGURE 4.

4. Place steering wheel cap (D) in position on steering wheel and press down firmly. See figure 4.

## BATTERY INFORMATION



**WARNING**

- 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.
- 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.
- If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.
- Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding.



**DANGER**

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

- Keep sparks, flame, cigarettes away.
- Hydrogen gas is generated during charging and discharging.

- Ventilate when charging or using in enclosed space.
- When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.
- Always shield eyes and protect skin and clothing when working near batteries.

### ACTIVATING THE BATTERY



**NOTE**

If your battery is activated (electrolyte in the battery) and installed in the unit, go directly to step 9.

- Place the battery to be filled on a workbench. Never activate a battery in the unit.
- Remove the fill caps from all cells.
- Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
- Let the battery sit for 20 minutes to allow the chemical reaction to take place.
- Charge the battery at a MAXIMUM RATE OF 5 AMPS until the specific gravity reads 1.265. Use a hydrometer to check the specific gravity.



**CAUTION**

An excessive rate of charge will damage the battery.

- Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
- Replace fill caps.

8. Once the battery has been activated, never add anything except distilled water or a good grade of drinking water.
9. If your battery has been installed in your unit at the factory:
  - A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
  - B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. **NEVER CHARGE AT MORE THAN 5 AMPS.**
  - C. Replace the fill caps.
  - D. The positive cable has been attached to the positive terminal of the battery at the factory. You only have to attach the negative cable (grounded) to the negative (Neg, N or -) terminal of the battery with a hex head bolt, lock washer and nut.

#### MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the 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 than 1.225, the battery should be recharged. Maximum charge rate 5 AMPS.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against 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.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

#### STORAGE OF THE BATTERY

1. Store the battery in the unit.
2. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.
3. Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	-71° F.
1.250	-62° F.
1.200	-16° F.
1.150	5° F.
1.100	16° F.



#### CAUTION

All batteries discharge during storage.

4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

#### COMMON CAUSES FOR BATTERY FAILURE

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



#### NOTE

These failures do not constitute warranty.

#### BATTERY REMOVAL OR INSTALLATION



#### WARNING

When removing the battery, follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

#### JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the **FRAME OF THE UNIT WITH THE DEAD BATTERY.**



#### WARNING

Failure to use this starting procedure could cause sparking, and the gases in either battery could explode.

## INSTALL BATTERY

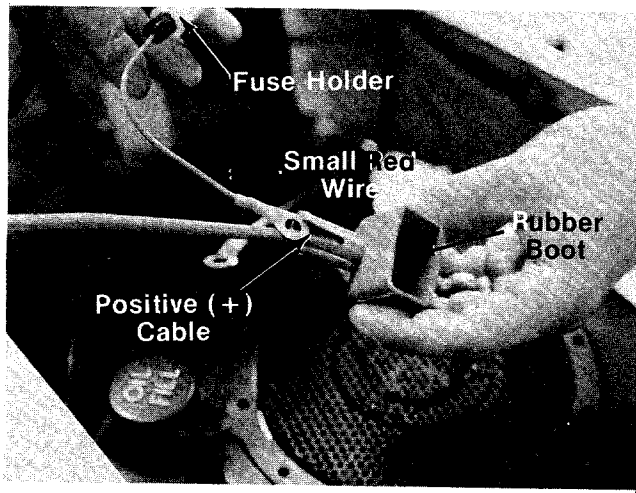


FIGURE 5.

- ← 1. Place end of small red wire (with fuse holder) into rubber boot with positive (+) cable. See figure 5.

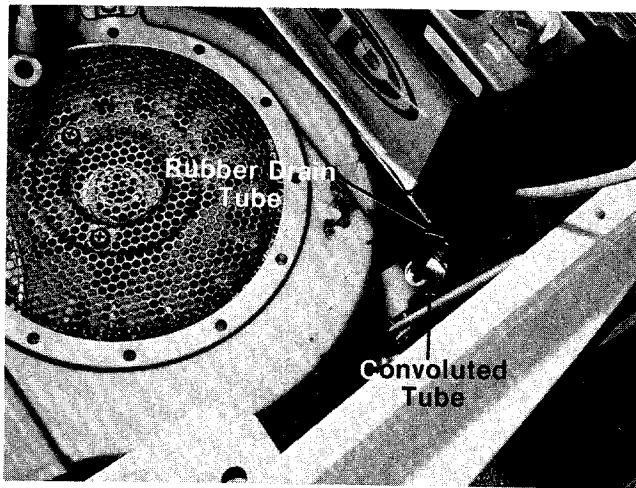


FIGURE 6.

- ← 2. Place the battery into the lawn tractor, so that the negative (–) terminal on battery is to the left hand side. See figure 6.
3. Place the end of rubber drain tube (on battery) into the fixed convoluted tube on lawn tractor. See figure 6. Reference to illustration on bottom of page 32 may also help.

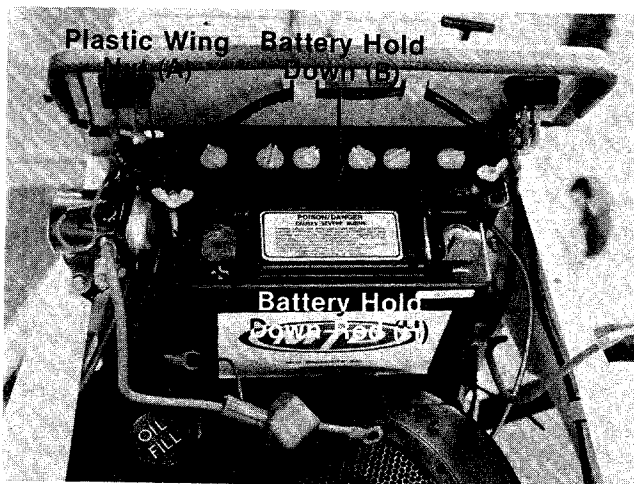


FIGURE 7.

- ← 4. Place the battery hold down (B) over battery. See figure 7.
5. Secure battery hold down (B) with two hold down rods (H) and plastic wing nuts (A). See figure 7.



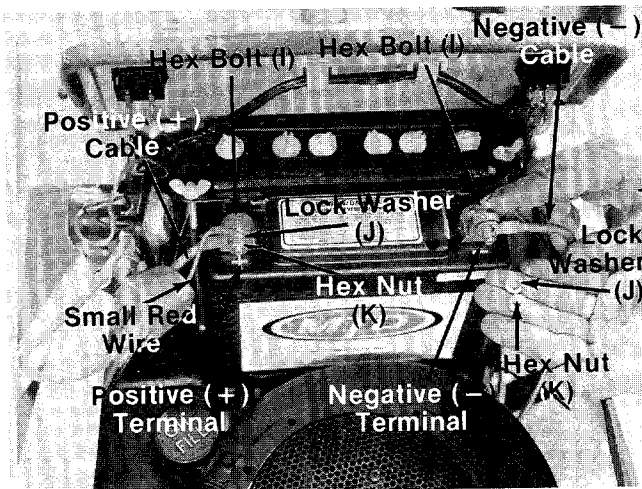
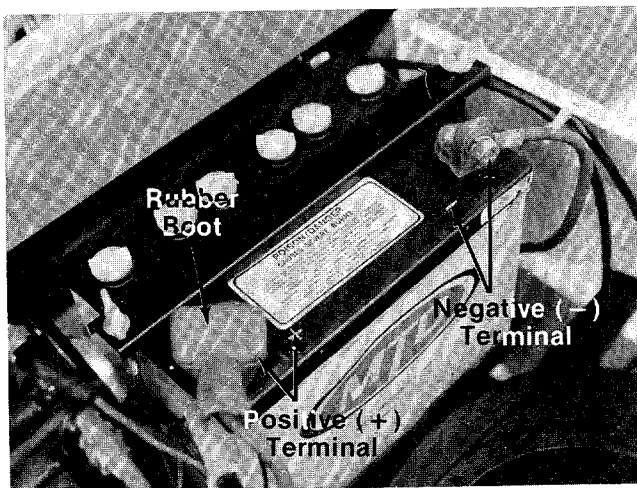


FIGURE 8.

6. Fasten the positive (+) cable and small red wire (with fuse holder) to the positive (+) battery terminal. Secure with hex bolt (I), lock washer (J) and hex nut (K). See figure 8.
7. Fasten the negative (-) cable to the negative (-) battery terminal. Secure with hex bolt (I), lock washer (J) and hex nut (K). See figure 8.



Be sure both cables are tightened securely.



8. Slide the rubber boot on the positive (+) cable down cable over positive (+) battery terminal. See figure 9.

FIGURE 9.

## CONTROLS

The controls may be considered as the Drive Control and the Cutting Control as follows:

- a. **Throttle Control.** The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from  $\frac{3}{4}$  to full throttle when operating the cutting deck or snow thrower (optional). See figure 10.
- b. **Gear Shift Lever.** The gear shift lever is used to shift into one of ~~five~~ <sup>THREE</sup> Forward Gears, "NEUTRAL" or "REVERSE." See figure 10.
- c. **Lift and Disengagement Lever.** It is used to raise the cutting deck. Pulling it all the way back and locking it disengages the blades. The engine will not start unless the lift and disengagement lever is in the disengaged position. See figure 10.

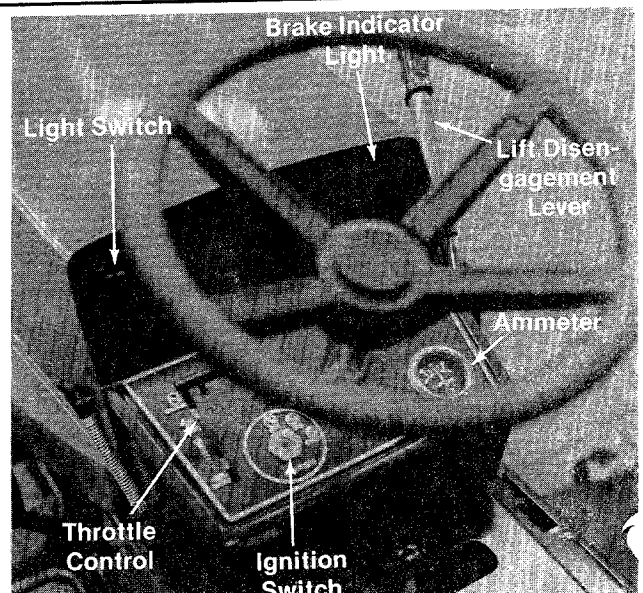


FIGURE 10.



- d. **Electric Start.** See figure 10. Turn the key to the "START" position to start the engine. When the engine is running, let the key return to the "ON" position. To stop the engine, turn the key to the left to the "OFF" position and remove it to prevent accidental starting.
- e. **Light Switch.** Push the light switch in to turn on the lights. The lights will only operate when the engine is running. See figure 10.
- f. **Brake Indicator Light.** The brake indicator light is located on the dash panel. Whenever the starter key is on and the brake pedal is depressed, it will illuminate. See figure 10.



### CAUTION

This light indicates that the brake is engaged. Operating the unit with the brake engaged will result in rapid brake wear and premature brake failure.

- g. **Ammeter.** The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (+) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling the ammeter will not show a charge. See figure 10.
- h. **Brake.** The brake pedal is located on the right hand side of the mower and is operated by depressing it with your right foot. See figure 11.

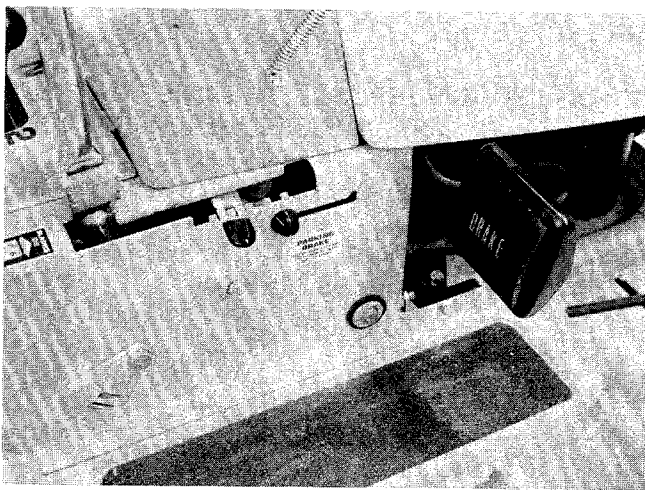


FIGURE 11.

- i. **Brake Lock.** The brake lock is located on the right hand side of the mower. To lock the brake, depress the brake pedal and lift up the lock button. The pedal will stay depressed. To release, depress the pedal. See figure 12.

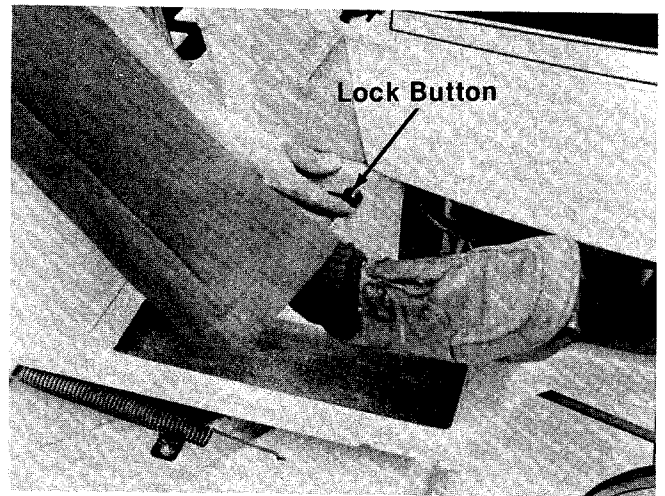


FIGURE 12.

- j. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will reduce mower speed. See figure 13.

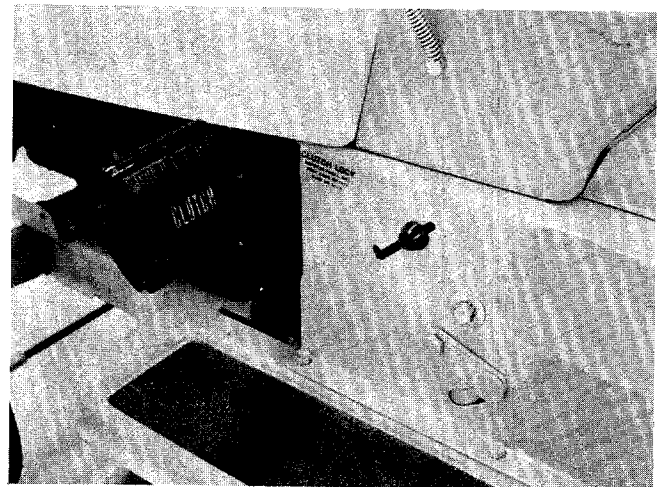


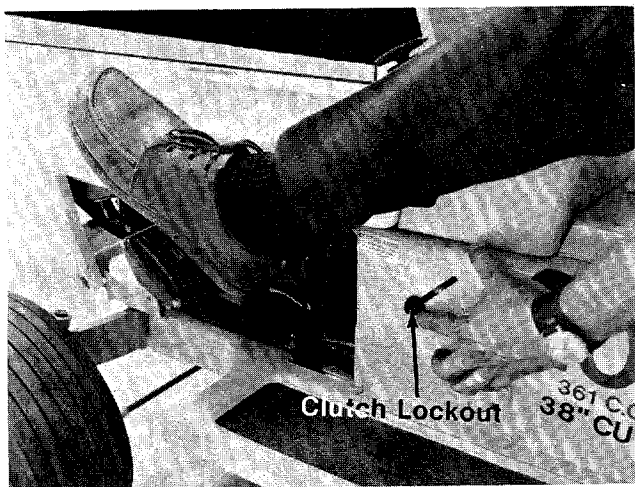
FIGURE 13.

- k. **Clutch Lockout.** When the clutch pedal is depressed all the way, it can be locked by placing the clutch lockout in the "START" position as shown in figure 14. The clutch lockout must be in this position before the engine will start.



### NOTE

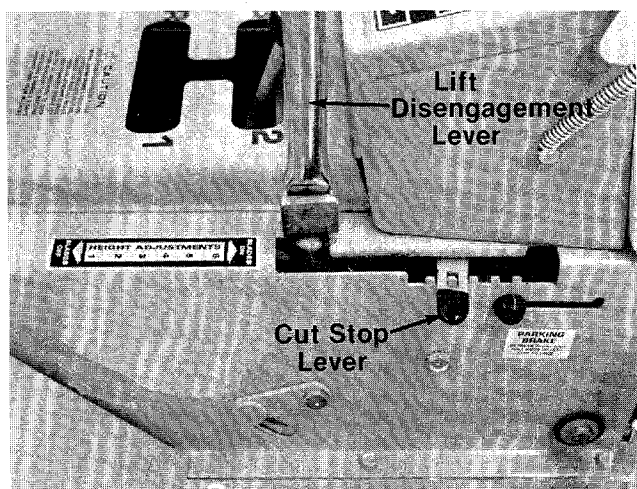
The engine will not start unless the clutch lockout is in the "START" position and the lift lever is in the DISENGAGED position.



**FIGURE 14.**

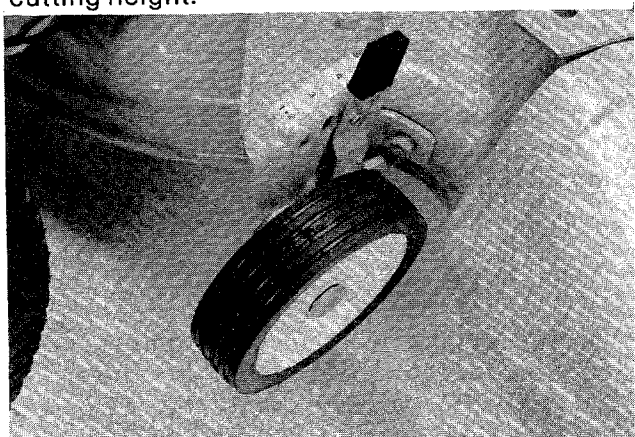
- I. **Cutting Controls.** The cutting controls consist of the height of cut stop and the wheel height adjusters.

**Height of Cut Stop.** See figure 15. Lift the stop and set it at the desired cutting height.



**FIGURE 15.**

**Wheel Height Adjuster.** See figure 16. Move the lever towards the wheel and set it in the desired cutting height.



**FIGURE 16.**

The cutting height of the mower can be set in two different ways: **FULL FLOAT** position where the deck follows the contour of the ground, and the **SUSPENDED** position where the deck hangs from the frame of the rider. The suspended position is normally used for cutting rough uneven ground.

To set the cutting deck in the full float position, set the wheel height adjusters in the desired cutting height as indicated in figure 15. Set height of cut stop in the 1½ position. See figure 15.

To set the cutting deck in the suspended position, set the height of cut stop in the desired cutting height and then set the deck wheels so they just clear the ground.



### CAUTION

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



### NOTE

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

## 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.**



### CAUTION

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.

# OPERATING INSTRUCTIONS

## CAUTION

1. KEEP ALL SHIELDS & GUARDS IN PLACE
2. BEFORE LEAVING OPERATOR'S POSITION:  
SHIFT CONTROLS INTO NEUTRAL  
SET PARKING BRAKE  
DISENGAGE ATTACHMENT DRIVE  
SHUT ENGINE OFF  
REMOVE IGNITION KEY
3. WAIT FOR ALL MOVEMENT TO STOP BEFORE  
SERVICING MACHINE
4. KEEP PEOPLE & PETS A SAFE DISTANCE  
AWAY FROM MACHINE

## STARTING THE ENGINE

Be sure to follow the instructions for the oil and gasoline as described in the engine manual.

Step 1. Be sure the fuel shut-off valve is open, must be turned counterclockwise. See figure 17.

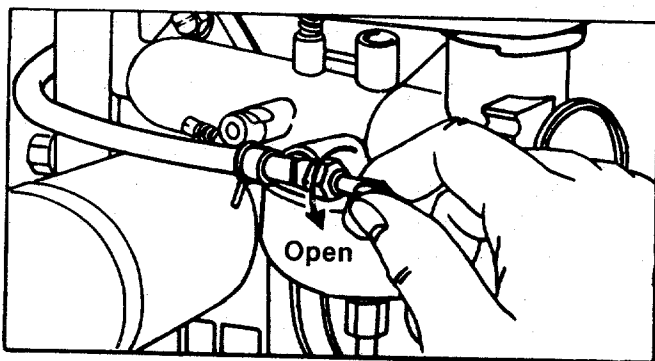


FIGURE 17. FUEL SHUT-OFF VALVE

- Step 2. Place the clutch lockout in the "START" position. See figure 14.
- Step 3. Place the lift and disengagement lever in the DISENGAGED position. See figure 10.
- Step 4. Set the throttle control in the "CHOKE" position. See figure 10.
- Step 5. **Electric Start.**  
See figure 10. Turn the ignition key to the "START" position. When the engine is running, let the key return to the "ON" position.

## STOPPING THE ENGINE

Turn the ignition key to the left to the "OFF" position. Remove the key to prevent accidental starting.



A brief break-in period is essential to ensure maximum engine and mower life. This consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 2 hours of operation.

## OPERATING THE MOWER

- Step 1. Set the desired cutting height.
- Step 2. Start the engine.
- Step 3. Move throttle control to desired engine speed.
- Step 4. Depress the clutch pedal, select one of three forward gears or reverse.



DO NOT force the gear shift lever! If the lever cannot be moved from NEUTRAL to one of the drive positions, release the clutch pedal slowly, depress it again, and then move the gear shift lever as required.

- Step 5. Release clutch pedal slowly to put unit in motion.
- Step 6. Once the machine is in motion, remove foot from the pedal. The mower will now move ahead or to the rear, and the use of the steering wheel will provide directional control.
- Step 7. The mower is brought to a stop by pressing your right foot against the brake pedal and your left foot against the clutch pedal. The drive belt will be disengaged and the brake will be applied.



Gear changing should be done only after the mower has been brought to a full stop. If the mower is not to be used for a long period, place the gear shift lever in NEUTRAL and stop the engine. DO NOT leave the machine on an incline.

## OPERATING THE CUTTER BLADE

The cutting blades may be engaged while the mower is moving or standing still. DO NOT engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.



### WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening and from the blade.

To stop the blades, move the lift and disengagement lever (figure 14) into the DISENGAGED position. This raises the deck and disengages the blades.



### IMPORTANT

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.



### NOTE

When the machine is used for other than mowing operations, the blade drive should be disengaged.

GRASS CATCHER Model No. 190-015A is available as optional equipment for the mower shown in this manual.



### WARNING

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. 764-0121.

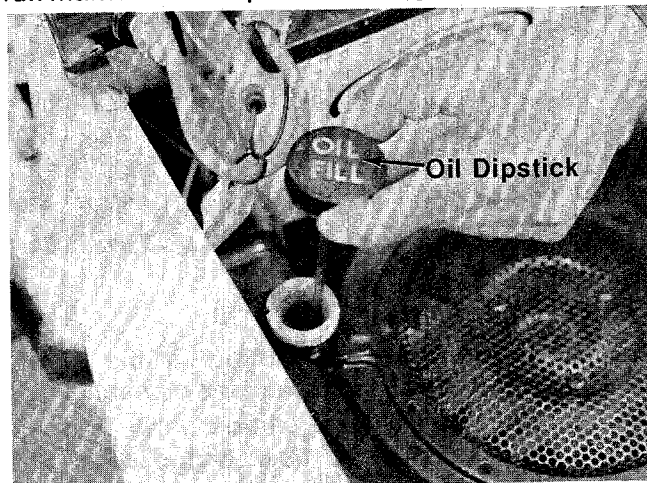
## MAINTENANCE

### CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

#### Oil Check

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil should be kept between the add and full marks on the dipstick. See figure 18.



**FIGURE 18.**

After the first five hours of operating a new engine, drain the oil (see figure 19) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. This procedure ensures minimum wear of engine parts and provides virtually trouble-free operation. To change the oil, proceed as follows:

Step 1. With the machine on level ground, place a suitable metal container under the oil drain plug, then remove the drain plug. See figure 19.



**FIGURE 19.**

Step 2. After the oil has been drained completely from the crankcase, replace the drain plug and tighten.

Step 3. Refill crankcase with 2¼ pints of good quality, type MS engine oil. Summer, use SAE 30; Winter (below 40°F), use SAE 5W-20 or SAE 10W.

## LUBRICATION

1. **Wheel Bearings (4).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. (See figure 20.)
2. **King Pins (2).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. (See figure 20.)

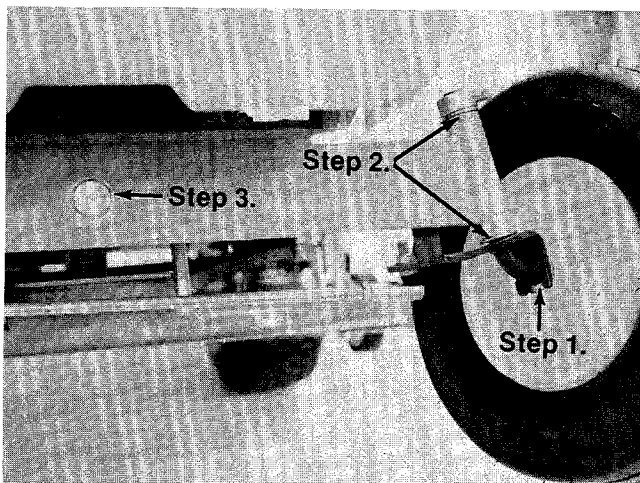


FIGURE 20.

3. **Front Pivot Bolt (1).** Lubricate with SAE 30 oil after every 25 hours of operation or once a season. (See figure 20.)
4. **Steering Gears (2).** Lubricate teeth of gears with automotive multi-purpose grease after every 25 hours of operation or once a season. (See figure 21.)
5. **Steering Column Bearings (2).** Lubricate the top and bottom bearings with SAE 30 oil after every 25 hours of operation or once a season. (See figure 21.)
6. **Steering Shaft Bearings (2).** Require no lubrication. (See figure 21.)

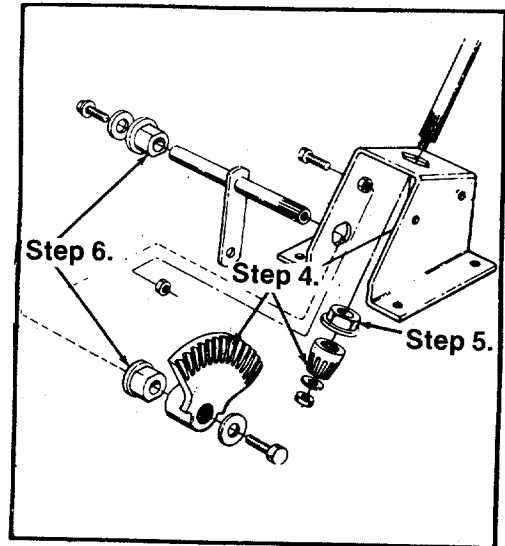


FIGURE 21.

Step 7. **Transaxle.** Check oil level after every 25 hours of operation or once a season. Remove the rear plug to check. Oil should be to the point of overflowing. Drain and change oil every 2 years. Drain plug located on the bottom of the transaxle. It is lubricated with 1½ pints of SAE EP 90 oil. (See figure 22.)

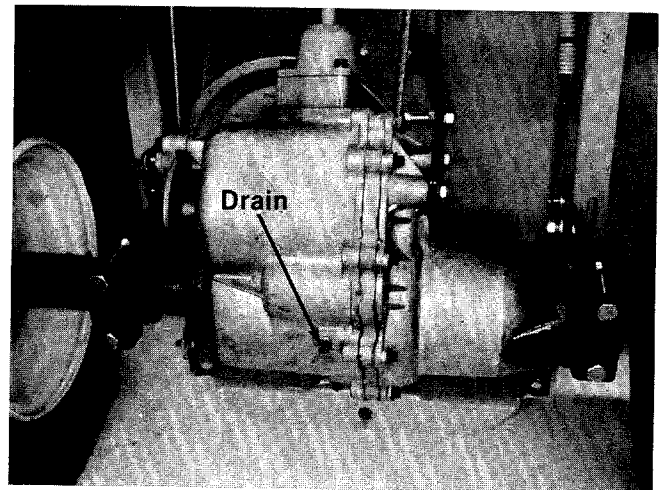


FIGURE 22.

The following parts should be oiled once a year with SAE 30 oil.

1. All deck links.
2. Clutch and brake pivot points and linkages.
3. Height adjustment levers.
4. Steering column bearings.

The following items have sealed bearings and require no further lubrication.

1. Blade Spindles
2. Idler Bearings
3. Tie Rod Ends



# ADJUSTMENTS

## SEAT ADJUSTMENT

Your seat may be adjusted in one of four hole locations. Remove hex nut and lock washer from under seat spring.

After desired seat location is selected, secure seat to seat spring with lock washer and hex nut. A 3/4" or adjustable wrench is required. See figure 23.

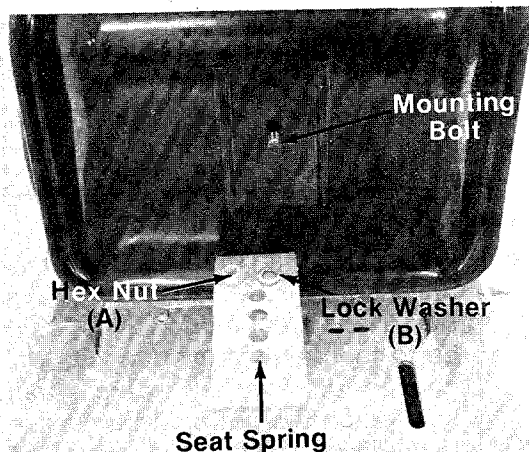


FIGURE 23.  
BRAKE ADJUSTMENT



### CAUTION

Do not have the engine running when you adjust the brakes.

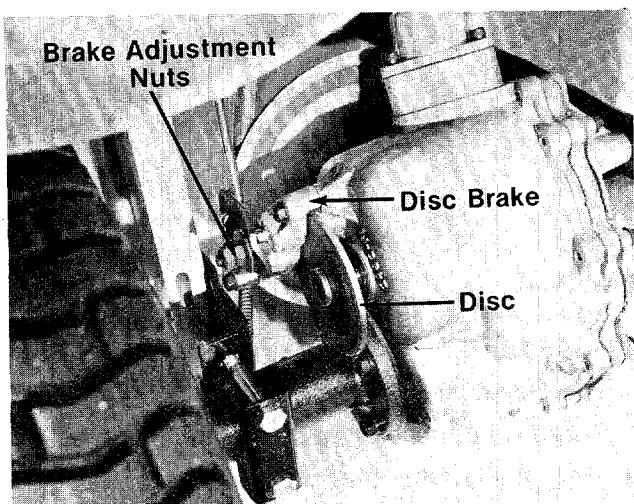


FIGURE 24.

1. Move the brake pedal forward by hand until resistance is noted. This is the point where the brake pedal spring begins to stretch.
2. If the adjustment is correct, the brake lock should move 1/4 inch. (See figure 25.)

3. If adjustment is necessary, tighten or loosen the brake adjusting nuts until the correct dimension is obtained. (See figure 24.) Periodic adjustment is necessary to maintain effective brake operation.

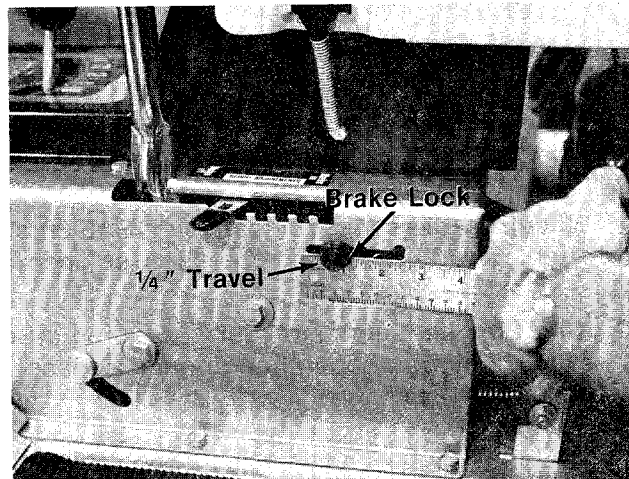


FIGURE 25.

## WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principals have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in, follow these steps.

1. Remove the elastic lock nut and drop the tie rod end from the wheel bracket. See figure 26.

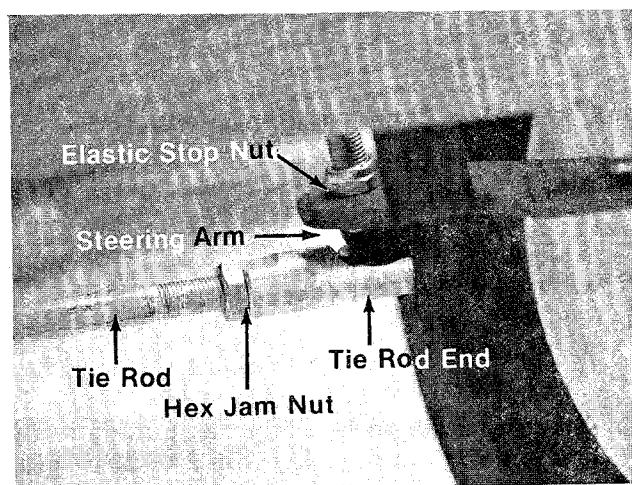


FIGURE 26.

2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.

Dimension "B" should be approximately 1/8" less than Dimension "A". See figure 27.

- To increase Dimension "B", screw tie rod into tie rod end.
- To decrease Dimension "B", unscrew tie rod from tie rod end.
- Reassemble tie rod. Check dimensions. Readjust if necessary.

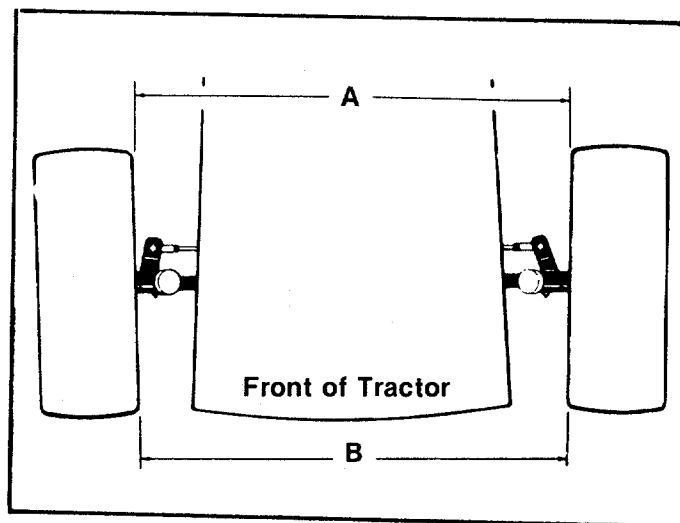


FIGURE 27. TOE-IN DIAGRAM



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



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.

### ADJUSTING CARBURETOR CHOKE

Proper choke adjustment is dependent upon proper adjustment of remote controls on the powered equipment.

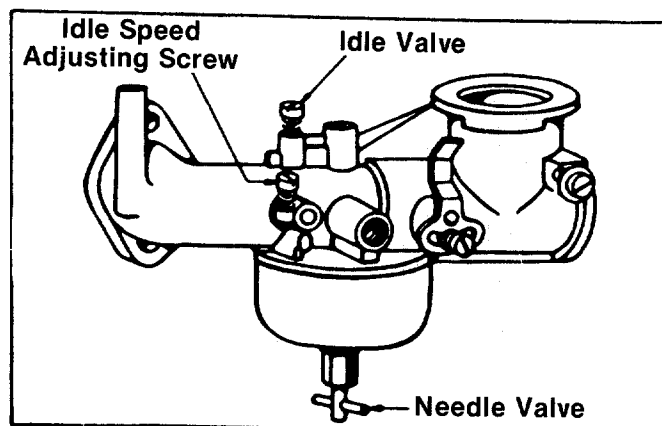


FIGURE 28. CARBURETOR ADJUSTMENT

**To Check Operation of Choke-A-Matic Controls:** Move control lever to "CHOKE" position. (See figure 10.) The carburetor choke should be closed.



The air cleaner can be removed to check the operation of the choke.

### To Adjust:

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 29.

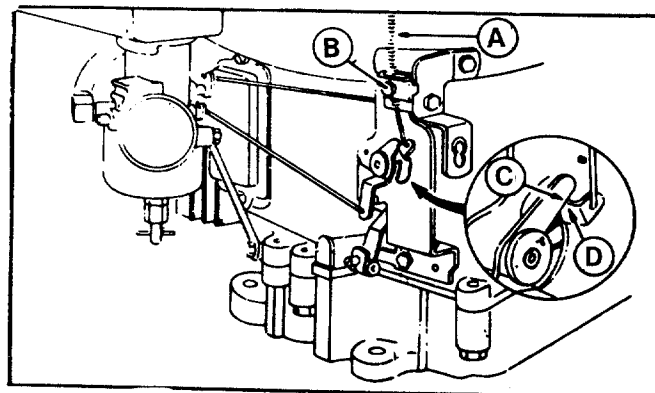
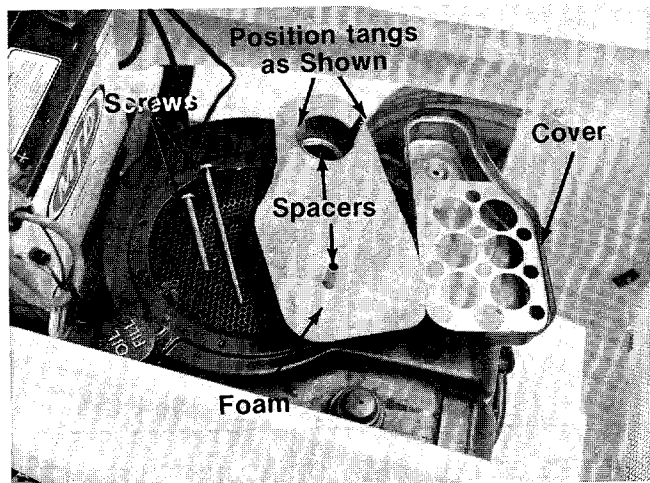


FIGURE 29. CHOKE ADJUSTMENT

### AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. Refer to figure 30.





**FIGURE 30.**

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

- Step 1. Remove two screws and lift off complete air cleaner assembly.
- Step 2. Remove screen and spacers from foam element.
- Step 3. Remove foam element from air cleaner body.
- Step 4.
  - a. Wash foam element in kerosene or liquid detergent and water to remove dirt.
  - b. Wrap foam in cloth and squeeze dry.
  - c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.
  - d. Assemble parts, fasten to carburetor with screw.

### 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.



#### NOTE

Belt tension is maintained by the spring on the idler bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

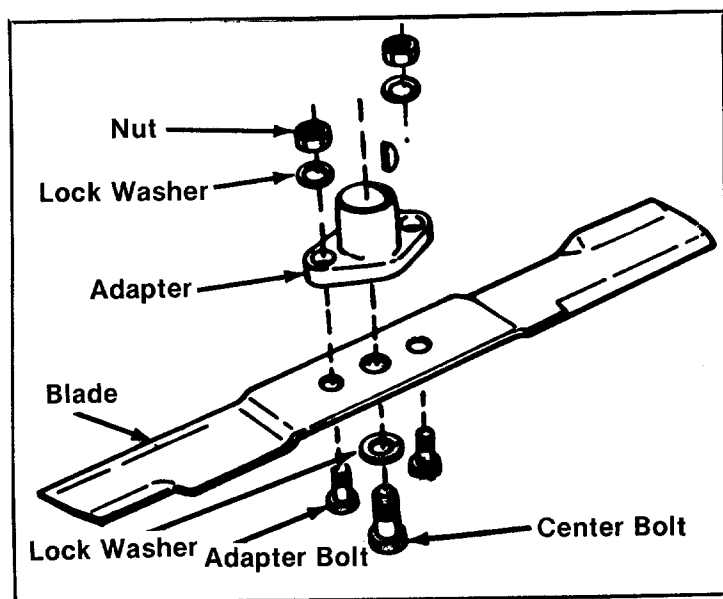
### REPLACING BLADE



#### WARNING

Before beginning work on the cutter blade, remove the spark plug from the cylinder.

**Removing and Sharpening Blades.** Remove the center bolt and lock washer. See figure 31. Pull the blade and blade adapter from the blade spindle.



**FIGURE 31. BLADE REMOVAL**

The adapter can be removed from the blade by removing the two adapter bolts, lock washers and nuts.

### SPARK PLUG

The spark plug gap should be cleaned and reset to a 0.030-inch clearance once a season (see figures 32 and 33). Spark plug replacement is recommended at the start of each mowing season; check engine parts list for correct plug type.



#### NOTE

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

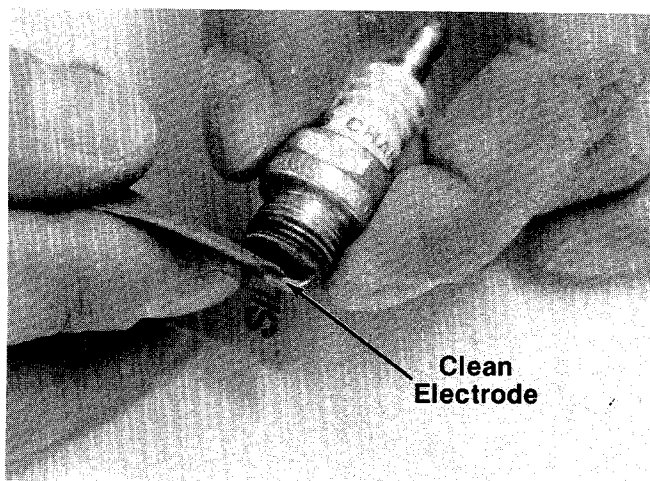


FIGURE 32.

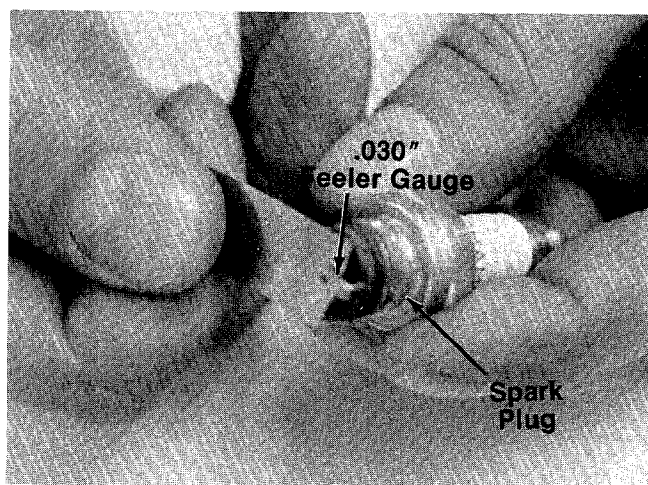


FIGURE 33.

## PREPARING FOR BELT REMOVAL



**WARNING**

Disconnect the spark plug wire and ground it against the engine.

1. Remove the battery.



**CAUTION**

Disconnect the negative terminal first and connect last when installing the battery.

2. To prevent gasoline from leaking from the engine, remove the gasoline cap, place a piece of thin plastic over the neck of the gasoline tank and screw on the cap.
3. Close the fuel shut-off valve.

4. Set the brake and lock it.
5. Lift the front end of the rider up and rest it on the rear wheels. It will balance in this position.
6. Secure with rope to prevent tipping.
7. Do not leave the rider in this position any longer than necessary as oil may get into the cylinder head. If this happens, remove the spark plug and crank over the engine to clear the oil.

## REMOVING THE DECK BELT

1. Place the lift lever in the disengaged position.
2. Remove the belt keeper and large bolt from the engine pulley. (See figure 34.)

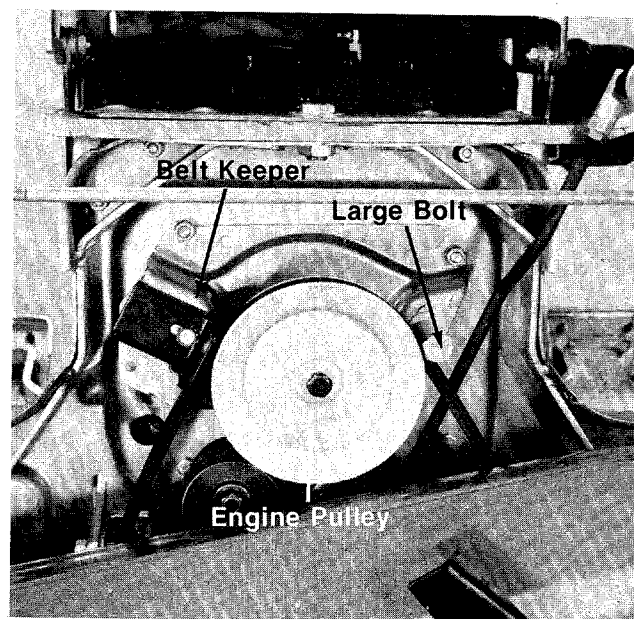


FIGURE 34.

3. Unhook the deck belt from the engine pulley.
4. Place the lift lever in the engaged position.

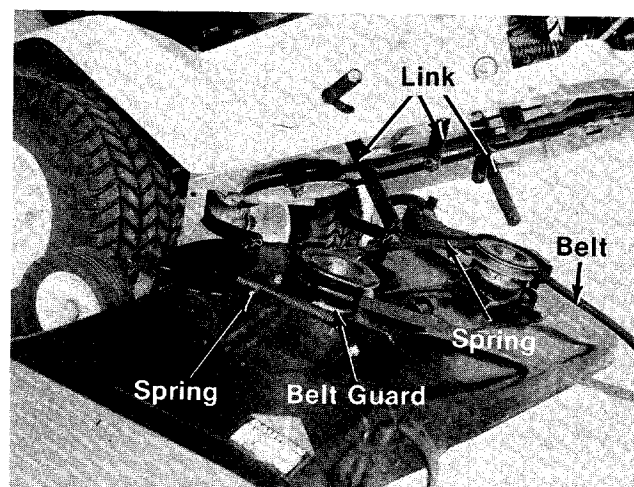


FIGURE 35.

5. Remove the two deck tension springs. (See figure 35.)
6. Remove the cotter pins holding the four front deck links. The deck can now be tipped forward. (See figure 35.)
7. Remove the belt guard on the left deck pulley by removing the two bolts and nuts.
8. Remove the three shoulder bolts and washers next to the right deck pulley.
9. Remove and replace the deck belt. Reassemble in reverse order.



#### CAUTION

Be sure to remove plastic from beneath gasoline cap.

#### REMOVING THE TRANSMISSION BELT

1. Follow steps 1 through 6 on Preparing for Belt Removal.
2. Place the lift lever in the disengaged position.
3. Remove the belt keeper and large bolt from the engine pulley. (See figure 34.)
4. Unhook the deck belt from the engine pulley.
5. Place the lift lever in the engaged position.
6. Unhook the tension springs. (See figure 35.)
7. Remove the six cotter pins holding the deck to the links.

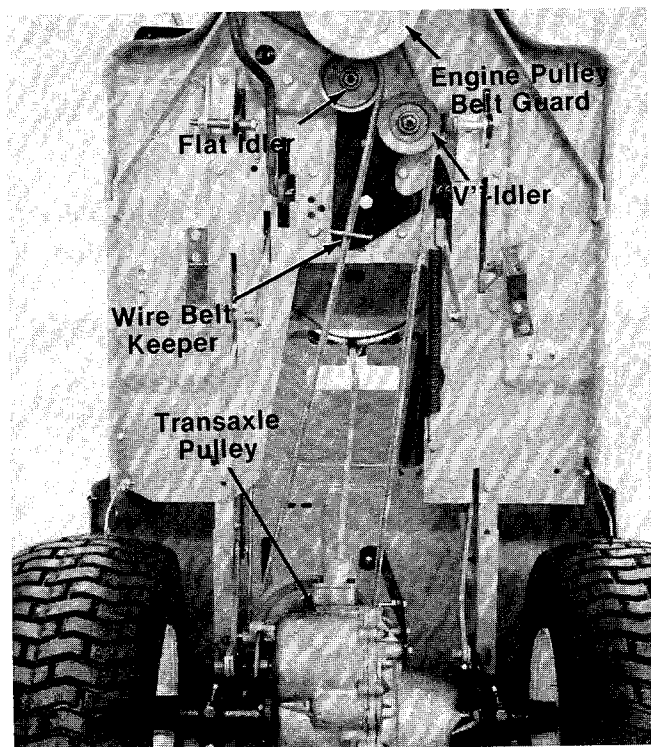


FIGURE 36.

8. Lift off the deck and set it aside.
9. Remove the engine belt guard by removing the two front engine mounting bolts. (See figure 36.)

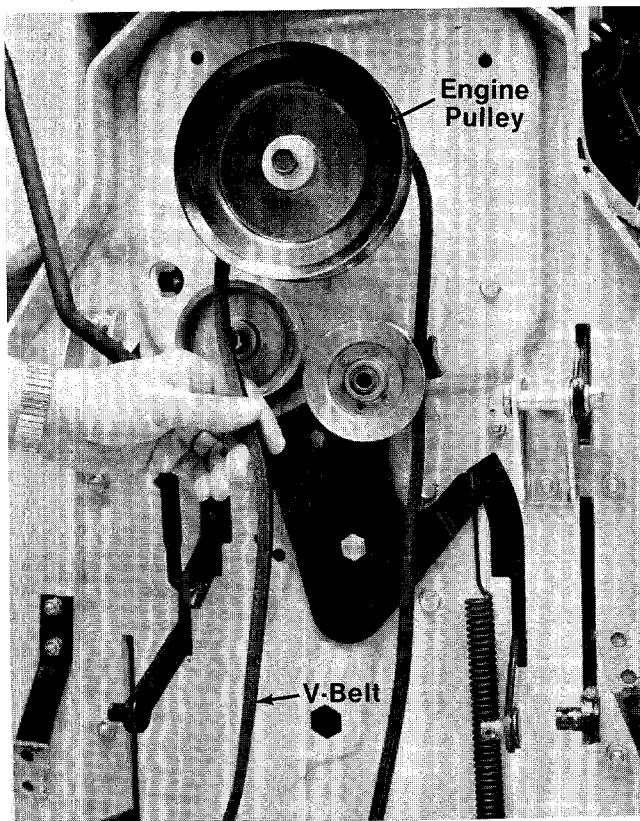


FIGURE 37.

10. Remove the wire belt keeper on frame. (See figure 36.)
11. Slide belt off the V-idler and remove.
12. Unhook the belt from the engine pulley. (See figure 37.)
13. Replace the belt and reassemble in reverse order.



#### CAUTION

Be sure to remove plastic from beneath gasoline cap.

## OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

- Step 1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

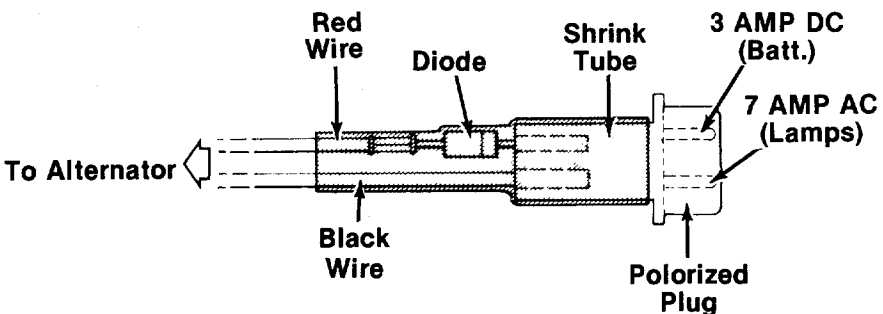


**WARNING**

Do not drain fuel while smoking, or if near an open fire.

- Step 2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.
- Step 3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.
- Step 4. Clean the engine and the entire mower thoroughly.
- Step 5. Lubricate all lubrication points indicated in figures 20, 21 and 22. Then wipe the entire machine with an oiled rag in order to protect the surfaces.

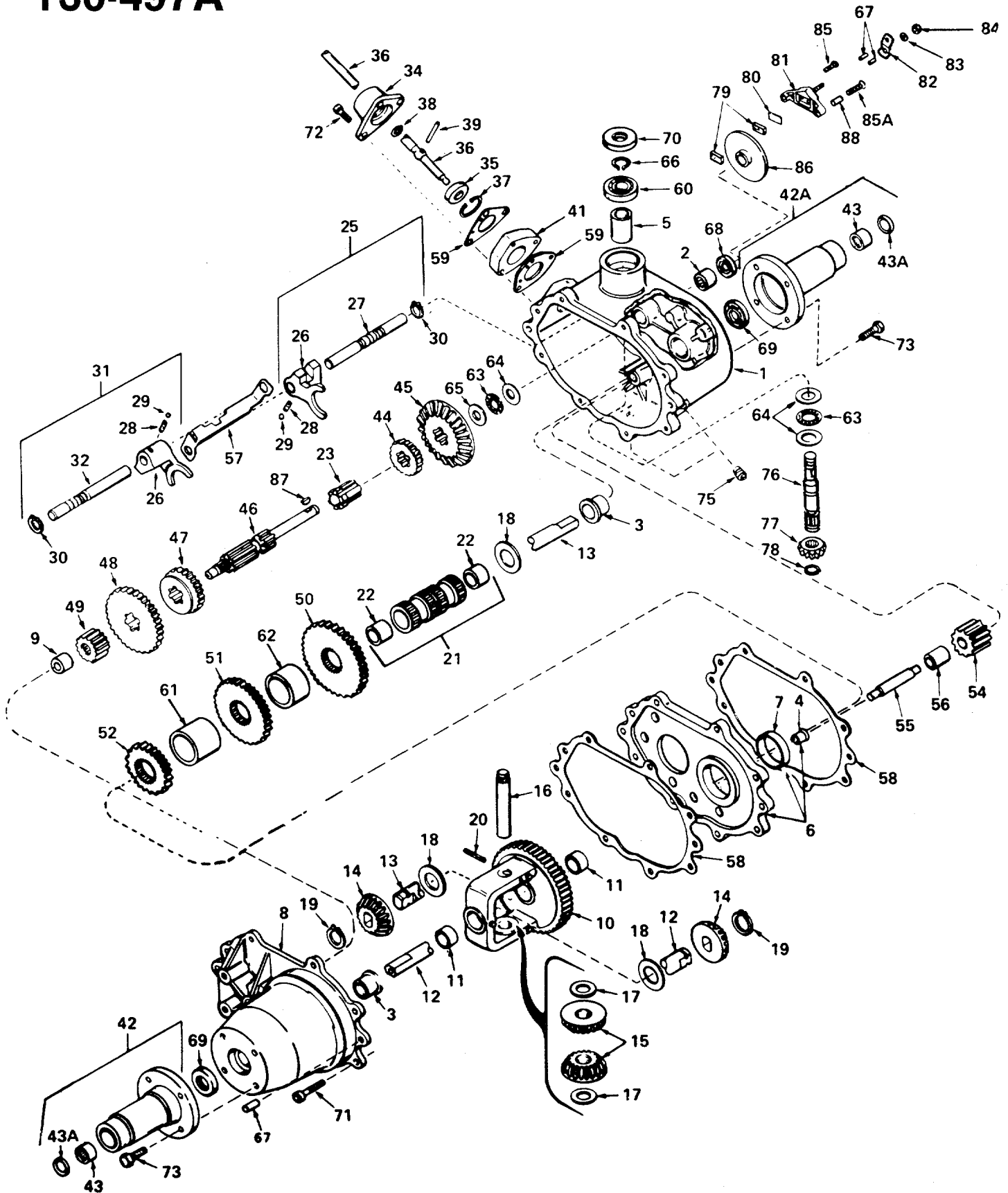
# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	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	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	<p>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.</p> <p><b>Trickle Charger.</b> 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.</p> <p><b>Alternator</b> (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.</p>  <p>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.</p>
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.
	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. <b>WARNING:</b> 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. <b>If the engine does not crank:</b> (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.

## 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	<b>Stop engine immediately.</b> Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	<b>Stop engine immediately.</b> Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low	Throttle must be set between 3/4 and full throttle.
	Transmission selection	Use lower transmission speed. The slower your ground speed, the better quality of cut.
	Blades short or dull	Sharpen or replace blades (uncut strip problem only).

# 130-497A



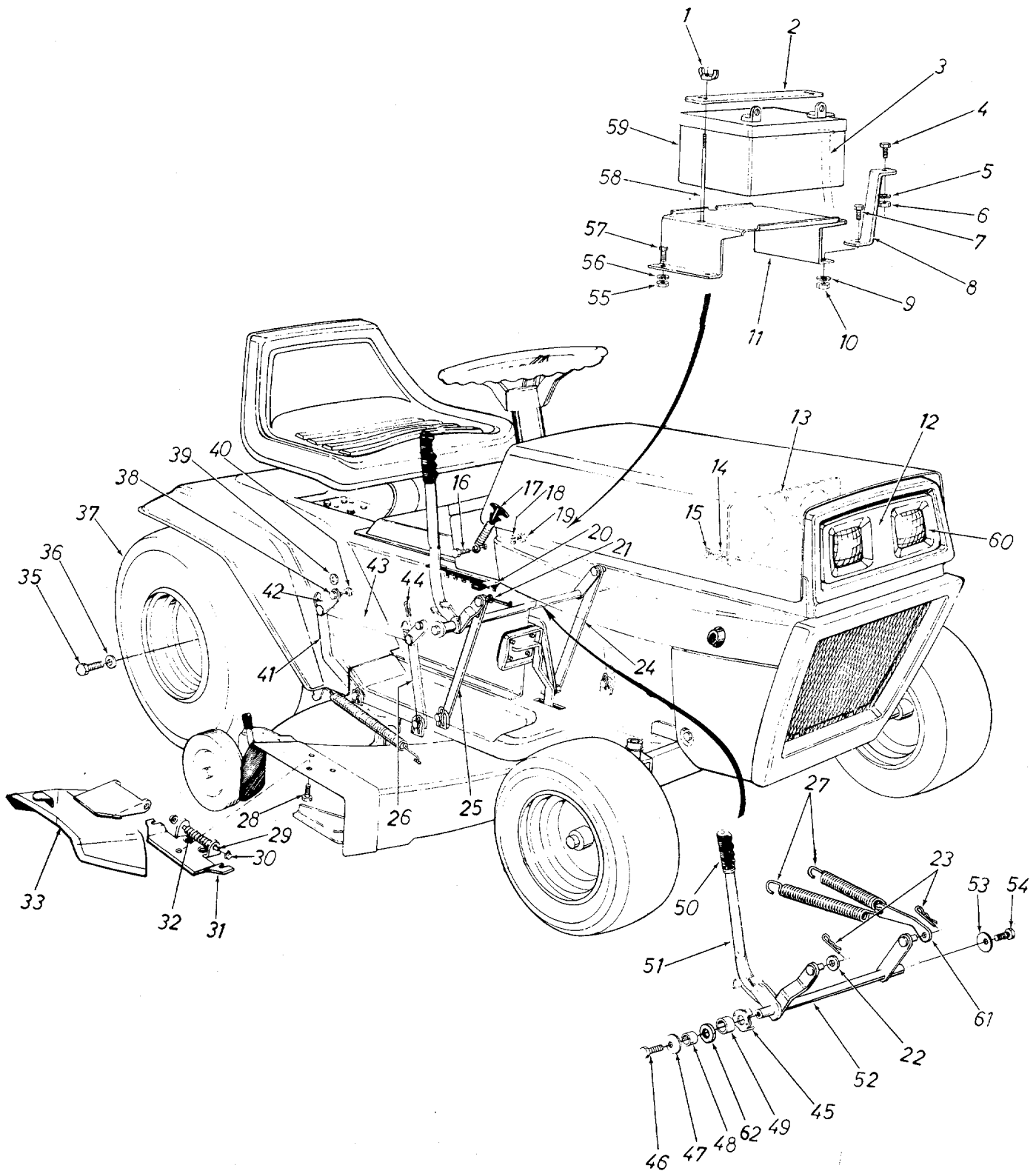
TRANSAXLE MODEL NO. 671A 717-0313



130-497A  
PARTS LIST FOR TRANSAXLE MODEL NO. 671A  
717-0313

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	PE-770063	Case Ass'y., Transaxle (Incl. Nos. 2, 3 & 5)	44	PE-788024A	Gear (16 Teeth)
2	PE-780086	Bearing, Needle	45	PE-778057	Gear, Bevel (33 Teeth)
3	PE-780059	Bearing, Bronze	46	PE-776138	Shaft, Shifter and Brake
4	PE-780060	Bearing, Bronze	47	PE-778058	Gear, Shifting (2nd & 3rd)
5	PE-780061	Bearing, Bronze	48	PE-778059	Gear, Shifting (1st & Rev.)
6	PE-786033	Plate Ass'y., Center (Incl. Nos. 4 & 7)	49	PE-778060	Gear, Spur (12 Teeth)
7	PE-780062	Bearing, Bronze	50	PE-778140	Gear, Countershaft Drive (39 Teeth)
8	PE-772042	Cover Ass'y., Transaxle (Incl. Nos. 3 & 9)	51	PE-778141	Gear, Countershaft (34 Teeth)
9	PE-780063	Bearing, Needle	52	PE-778142	Gear, Countershaft (25 Teeth)
10	PE-778053A	Gear Ass'y., Differential (Incl. No. 11)	54	PE-778064	Idler, Reverse
11	PE-780064	Bearing, Bronze	55	PE-776057	Shaft, Reverse Idler
12	PE-774340	Axle, Left Hand	56	PE-786036	Spacer, Reverse Idler
13	PE-774341	Axle, Right Hand	57	PE-784087	Stop, Shifter
14	PE-778067	Gear, Bevel	58	PE-788033	Gasket, Case & Cover
15	PE-778068	Pinion, Bevel	59	PE-788003	Gasket, Shift Lever Hsg.
16	PE-786034	Pin, Drive	60	PE-780093	Bearing, Ball
17	PE-780065	Washer, Thrust	61	PE-786078	Spacer
18	PE-780001	Washer, Thrust	62	PE-786079	Spacer
19	PE-788038	Ring, Snap	63	PE-780071	Bearing, Thrust
20	PE-792040	Pin, Roll	64	PE-780072	Washer, Thrust
21	PE-786080	Sleeve Ass'y., Countershaft (Incl. No. 22)	65	PE-780073	Washer, Thrust
22	PE-780066	Bearing, Bronze	66	PE-792035	Ring, Snap
23	PE-776090	Shaft, Idler	67	PE-786026	Pin, Dowel
25	PE-784079	Rod Ass'y., Shift (1st & Rev.) (Incl. Nos. 26 thru 30)	68	PE-788043	Seal, Oil
26	PE-784004	Fork, Shift	69	PE-788009	Seal, Oil
27	PE-784083	Rod, Shift	70	PE-788035	Seal, Oil
28	PE-792003	Spring	71	PE-792036	Scr., Flanged Hex Hd., 1/4-20 x 1-1/4
29	PE-792004	Ball, Steel	72	PE-792051	Scr., Flanged Hex Hd., 1/4-20 x 1-3/4
30	PE-792017	Ring, Snap	73	PE-792037	Scr., Hex Hd., Sems, 5/16-18 x 1
31	PE-784084	Rod Ass'y., Shift (2nd & 3rd) (Incl. Nos. 26, 28, 29, 30, 32)	75	PE-792039	Plug, Pipe 1/8"
32	PE-784085	Rod, Shift	76	PE-776155	Shaft, Input
34	PE-784088	Housing, Shift Lever	77	PE-778077	Pinion, Input
35	PE-784094	Keeper, Shift Lever	78	PE-788040	Ring, Retaining
36	PE-784301	Lever, Shift	79	PE-790006	Pad, Brake
37	PE-792016	Ring, Snap	80	PE-790007	Plate, Brake Pad
38	PE-792001	Ring, Quad	81	PE-790005	Holder, Brake Pad
39	PE-792049	Pin, Drive	82	PE-790004	Lever, Brake
41	PE-786057	Block, Riser	83	PE-792076	Washer, Flat
42	PE-782038A	Hsg. Ass'y., Axle (Incl #43)	84	PE-792075	Nut, Lock
42A	PE-782043	Hsg. Ass'y., Axle (Incl. #43)	85	PE-792073	Scr., Hex Hd. Cap, 1/4-20 x 1 1/4 Thd. Forming
43	PE-530105	Bearing, Needle	85A	PE-792085	Scr., Hex Hd. Cap, 1/4-20 x 2 1/4 Thd. Forming
43A	PE-788042	Seal, Oil	86	PE-790009	Disc, Brake
			87	PE-782045	Key, Woodruff #61
			88	PE-786066	Spacer

# 130-497A



RIGHT HAND VIEW

# PARTS LIST FOR MODEL 130-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0113		Wing Nut Solid 1/4-20 Thd.		35	710-0627		Hex Scr. 5/16-24 x .75" Lg.*	
2	12614		Battery Hold Down		36	736-0242		Bell-Wash. .345 I.D. x .88 O.D.	
3	731-0333		Convuluted Conduit						
4	710-0286		Truss Mach. Scr. 1/4-20 x .50" Lg.		37	734-0601		Rear Wheel Ass'y.—Comp. 18.0 x 8.50	
5	736-0329		L-Wash. 1/4" Scr.*		38	738-0140		Shld. Scr. .437 Dia. x .180	
6	712-0272		Hex Nut 1/4-20 Thd. Sems*		39	736-0264		FI-Wash. .344 I.D. x .62 O.D.	
7	710-0258		Hex Scr. 1/4-20 x .62" Lg.*		40	712-0267		Hex Nut 5/16-18 Thd.*	
8	12811		Battery Brkt. Brace		41	10349		Deck Link Ass'y.	
9	736-0329		L-Wash. 1/4" Scr.*		42	09721		Pivot Link Ass'y.	
10	712-0287		Hex Nut 1/4-20 Thd.*		43	09735		Connecting Rod 3/16 x 1 x 12.5" Lg.	
11	13379		Battery Brkt.						
12	12787		Head Lamp Bezel		44	714-0101		Inter. Cot. Pin 1/2" Dia.	
13	12788		Head Lamp Retainer		45	11029		Handle Pivot Brkt.	
14	736-0329		L-Wash. 1/4" Scr.*		46	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
15	712-0287		Hex Nut 1/4-20 Thd.*		47	736-0133		FI-Wash. .400 I.D. x 1.25 O.D.	
16	710-0289		Hex Scr. 1/4-20 x .50" Lg.*						
17	723-0296		Hood Latch Ass'y.		48	750-0273		Spacer .632 I.D. x .88 O.D.	
18	736-0329		L-Wash. 1/4" Scr.*		49	735-0195		Rubber Wash.	
19	712-0287		Hex Nut 1/4-20 Thd.*		50	720-0157		Grip	
20	11027		Handle Stop Brkt. Ass'y.		51	749-0212		Lift Handle	
21	726-0121		Push Cap 1/4" Dia. Black		52	13630		Lift Handle Brkt. Ass'y.	
22	736-0192		FI-Wash. .531 I.D. x 1.13 O.D.		53	736-0219		Bell-Wash. .400 I.D. x 1.13 O.D.	
23	714-0101		Inter. Cot. Pin 1/2" Dia.		54	710-0201		Hex Scr. 3/8-16 x .62" Lg.*	
24	13636		Lock Out Link Ass'y.		55	712-0287		Hex Nut 1/4-20 Thd.*	
25	13636		Lock Out Link Ass'y.		56	736-0329		L-Wash. 1/4" Scr.*	
26	10904		Deck Link Ass'y.		57	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
27	732-0233		Spring		58	711-0222		Battery Hold Down Rod	
28	710-0195		Hex Scr. 1/4-28 x .62" Lg.*		59	725-0453		Battery 12-Volt Manifold Vented	
29	711-0576		Pivot Pin						
30	726-0106		Push-On Flange Palnut		60	725-0222		Headlight	
31	11399		Adapter Plate Ass'y.		61	13638		Spring Link	
32	732-0261		Torsion Spring		62	736-0237		FI-Wash. .656" I.D. x 1.25" O.D.	
33	11633		Chute Cover Ass'y.						

\*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.

(462—Red Flake)

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Red Flake Finish—11836 (462).)



## NOTE

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

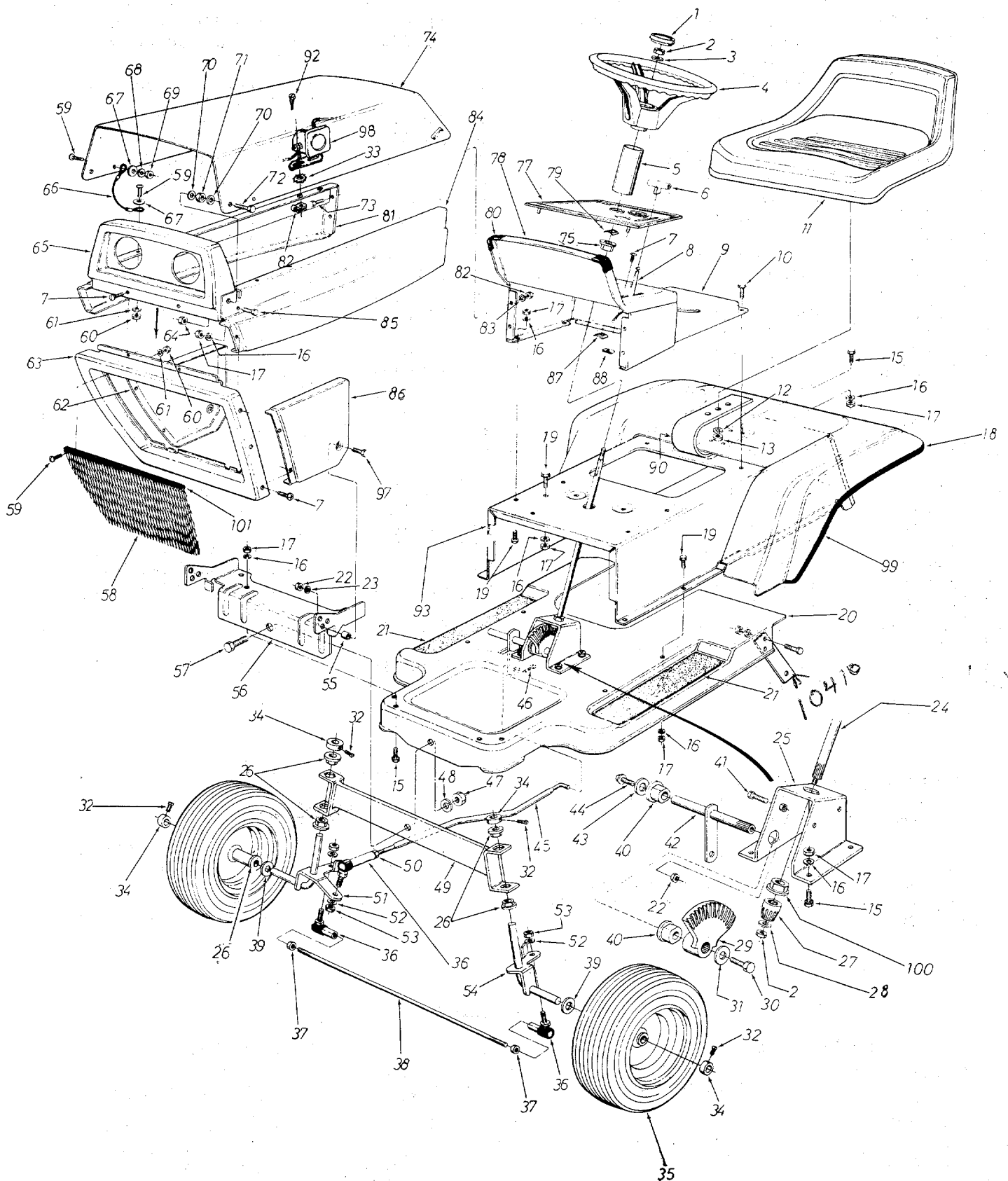
## WHEEL CHART

### FRONT WHEEL

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
734-0988	Wheel Ass'y. Comp.	734-0601	Wheel Ass'y. Comp.
734-0997	Rim Ass'y. Only	734-0603	Rim Ass'y. Only
734-0498	Tire Only 15 x 6.00	734-0516	Tire Only 18 x 8.50
734-0255	Air Valve	734-0255	Air Valve
741-0313	Bearing		

### REAR WHEEL

# 130-497A



# PARTS LIST FOR MODEL 130-497A

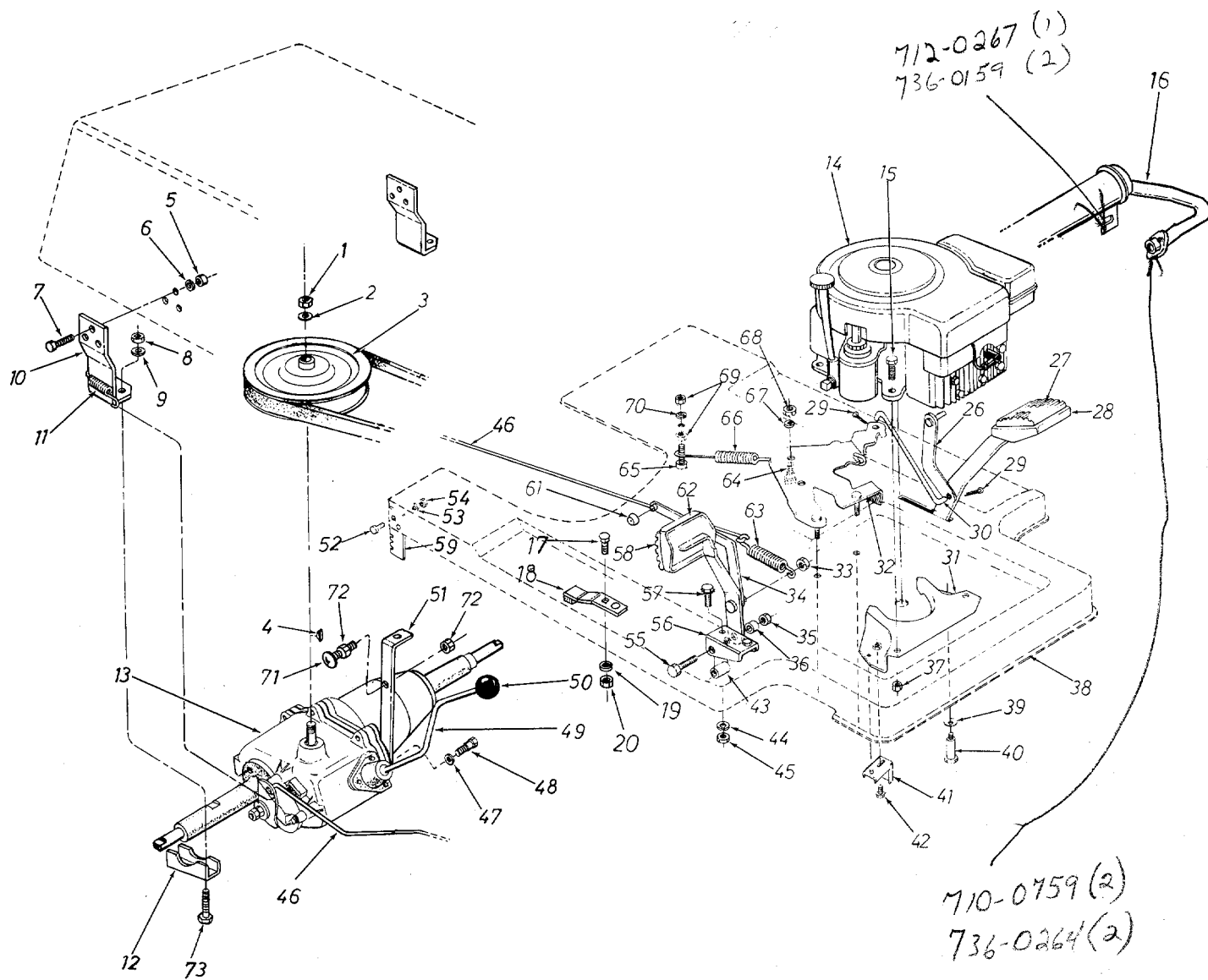
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		45	747-0186		Steering Rod	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		46	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*	
3	736-0242		Bell-Wash. .345 I.D. x .88 O.D.		47	712-0923		Hex Cent. L-Nut 5/8-16 Thd.	
4	731-0356		Steering Wheel		48	736-0158		L-Wash. 5/8" Scr.*	
5	750-0319		Steering Tube		49	14198		Front Pivot Bar Ass'y.	
6	722-0111		Knob—Throttle Control		50	712-0711		Hex Jam Nut 3/8-24 Thd.	
7	710-0227		Hex AG-Tap. Scr. #8 x .50" Lg.		51	12755		Axle Ass'y.—Front R.H.	
8	746-0356		Throttle Control Ass'y. Comp.		52	736-0169		L-Wash. 3/8" Scr.*	
9	13495		Transmission Cover		53	712-0241		Hex Nut 3/8-24 Thd.*	
10	710-0599		Hex C-Tap. Scr. 1/4-20 x .50" Lg.		54	12752		Axle Ass'y.—Front L.H.	
11	757-0264		Seat Ass'y.		55	748-0193		Spacer .380 I.D. x .630 O.D. x .575 Lg.	
12	736-0921		L-Wash. 1/2" Scr.*		56	12411		Front Pivot Bracket	
13	712-0206		Hex Nut 1/2-13 Thd.*		57	710-0622		Hex Scr. 5/8-18 x 1.62" Lg.*	
15	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		58	12791		Grille Screen	
16	736-0119		L-Wash. 5/16" Scr.*		59	710-0192		Truss Scr. #10-24 x .375" Lg.*	
17	712-0267		Hex Nut 5/16-18 Thd.*		60	712-0121		Hex Nut #10-24 Thd.*	
18	11839 —462		Rear Fender		61	736-0722		L-Wash. #10 Scr.*	
19	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		62	12782 —462		Lower Side Panel R.H.	
20	13460		Frame Assembly		63	12781 —462		Lower Grille Panel	
21	723-0241		Foot Pad 15.75 x 4.00"		64	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
22	712-0798		Hex Nut 3/8-16 Thd.*		65	12814 —462		Front Grille Upper Ass'y.	
23	736-0105		Bell-Wash. .400 I.D. x .88 O.D.		66	727-0199		Hood Stop	
24	738-0317		Steering Shaft		67	736-0463		Fl-Wash. .25 I.D. x .62 O.D.	
25	12850		Steering Gear Support Ass'y.		68	736-0722		L-Wash. #10 Scr.*	
26	741-0313		Flange Bearing		69	712-0121		Hex Nut #10-24 Thd.*	
27	748-0237		Pinion Gear		70	736-0101		Fl-Wash. .380 I.D. x 1.00 O.D.	
28	736-0264		Fl-Wash. .344 I.D. x .62 O.D.		71	735-0126		Rubber Wash. .33 I.D. x .87 O.D.	
29	748-0236		Side Gear		72	710-0253		Hex Scr. 3/8-16 x 1.00" Lg.*	
30	710-0180		Hex Scr. 3/8-24 x .75" Lg.*		73	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
31	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.		74	12780 —462		Front Hood	
32	710-0666		Sq. Hd. Set Scr. 5/16-18 x .38 Cup		75	748-0227		Hex Flange Bearing .630 I.D.	
33	736-0147		Ext. L-Wash. #10 Scr.		77	731-0476		Dash Panel Insert	
34	711-0169		Collar 5/8" I.D.		78	13877		Dash Panel Ass'y.	
35	734-0998		Front Wheel Ass'y.—Comp. 15 x 6		79	712-0222		Speed Nut Push-On 5/8" Dia.	
36	723-0156		Ball Joint Ass'y. 3/8-24 Thd.		80	757-0272		Trim Strip (15" Lg.)	
37	712-0711		Hex Jam Nut 3/8-24 Thd.		81	13974 —462		Side Panel R.H.	
38	711-0613		Tie Rod		82	726-0155		Speed Nut #10Z	
39	736-0156		Fl-Wash. .635 I.D. x 1.20 O.D.		83	736-0329		L-Wash. 1/4" Scr.*	
40	748-0199		Plastic Flange Brg. w/Flats .75 I.D.		84	12785 —462		Side Panel L.H.	
41	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.		85	710-0621		Hex Scr. 5/16-18 x .50" Lg.*	
42	12749		Steering Arm Shaft Ass'y.		86	12783 —462		Lower Side Panel L.H.	
43	736-0133		Fl-Wash. .406 I.D. x 1.25 O.D.		90	732-0354		Seat Spring 4.125" High	
44	710-0180		Hex Scr. 3/8-24 x .75" Lg.*		92	710-0436		Hex Scr. 10-24 x .62" Lg.*	
					93	13466		Upper Frame	
					97	710-0342		Hex Scr. 3/8-16 x 1.25" Lg.*	
					98	725-0530		Solenoid	
					99	731-0481		Plastic Edge	
					100	748-0227		Flange Brg. .630 I.D.	
					101	731-0144		Ext. Vinyl U-Channel	
					102	712-0237		Nut 5/16-24	

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(462—Red Flake)

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# 130-497A



# PARTS LIST FOR MODEL 130-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	712-0922		Hex Jam Nut 1/2-20 Thd.*		42	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
2	736-0921		L-Wash. 1/2" Scr.*		43	750-0298		Spacer .384 I.D. x .500 O.D. x 1.43" Lg.	
3	756-0267		Transmission Split Pulley .50" I.D.		44	736-0119		L-Wash. 5/16" Scr.*	
4	714-0129		#4 Hi-Pro Key 3/32 x 5/8" Dia.		45	712-0267		Hex Nut 5/16-18 Thd.*	
5	712-0267		Hex Nut 5/16-18 Thd.*		46	747-0106		Brake Rod .25" Dia. x 23.40" Lg.	
6	736-0119		L-Wash. 5/16" Scr.*		47	736-0242		Bell. Wash. .345 I.D. x .88 O.D.	
7	710-0118		Hex Scr. 5/16-18 x .75" Lg.*		48	710-0371		Hex Scr. 5/16-18 x .88" Spec.	
8	712-0798		Hex Ins. L-Nut 3/8-16 Thd.		49	717-0391		Shift Lever for Transaxle	
9	736-0169		L-Wash. 3/8" Scr.*		50	720-0165		Gear Shift Knob	
10	13438		Transaxle "U" Brkt.		51	11850		Transaxle Support Brkt.	
11	732-0157		Spring .38 O.D. x 3.25" Lg.		52	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
12	13892		Rear Axle Brkt.		53	736-0329		L-Wash. 1/4" Scr.*	
13	—		Transaxle Complete		54	712-0287		Hex Nut 1/4-20 Thd.*	
14	10 H.P.		Engine B & S		55	710-0194		Hex Scr. 3/8-16 x 3.00" Lg.*	
15	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*			738-0213		Shld. Bolt .498 Dia. x 1.450 for Clutch Pedal	
16	751-0263		Muffler		56	11039		Pedal "U"-Brkt. Ass'y.	
17	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		57	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.	
18	761-0169		Blade Brake Ass'y.		58	12378		Brake Pedal Pad	
19	736-0329		L-Wash. 1/4" Scr.*		59	10410		Spring Brkt.	
20	712-0287		Hex Nut 1/4-20 Thd.*		61	726-0121		Push Cap 1/4" Dia. Black	
26	11057		Parking Brake Lever Ass'y.		62	11036		Brake Pedal Ass'y.	
27	12379		Clutch Pedal Pad		63	732-0245		Extension Spring .90 O.D. x 3.75" Lg.	
28	11037		Clutch Pedal Ass'y.		64	738-0140		Shld. Scr. .437 Dia. x .180	
29	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.*		65	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
30	747-0112		Clutch Rod		66	732-0191		Spring .75 O.D. x 11.00" Lg.	
31	12654		Belt Guard Ass'y.—Engine		67	736-0119		L-Wash. 5/16" Scr.*	
32	12448		Idler Brkt. Ass'y.		68	712-0267		Hex Nut 5/16-18 Thd.*	
33	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		69	712-0267		Hex Nut 5/16-18 Thd.*	
34	13875		Parking Brake—Lever Ass'y.		70	736-0119		L-Wash. 5/16" Scr.*	
35	712-0375		Hex Cent. L-Nut 3/8-16 Thd.		71	710-0262		Carr. Bolt 5/16-18 x 1.50" Lg.*	
36	711-0630		Spacer .380 I.D. x .50 O.D. x .562		72	712-0267		Hex Nut 5/16-18 Thd.*	
37	712-0267		Hex Nut 5/16-18 Thd.*		73	710-0194		Hex Bolt 3/8-16 x 3.00" Lg.*	
38	13460		Frame Ass'y.						
39	736-0105		Bell. Wash. .400 I.D. x .88 O.D.						
40	738-0215		Shld. Scr. .489" Dia. x 3.00" Lg.						
41	12160		Belt Keeper Ass'y.						

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(462—Red Flake)

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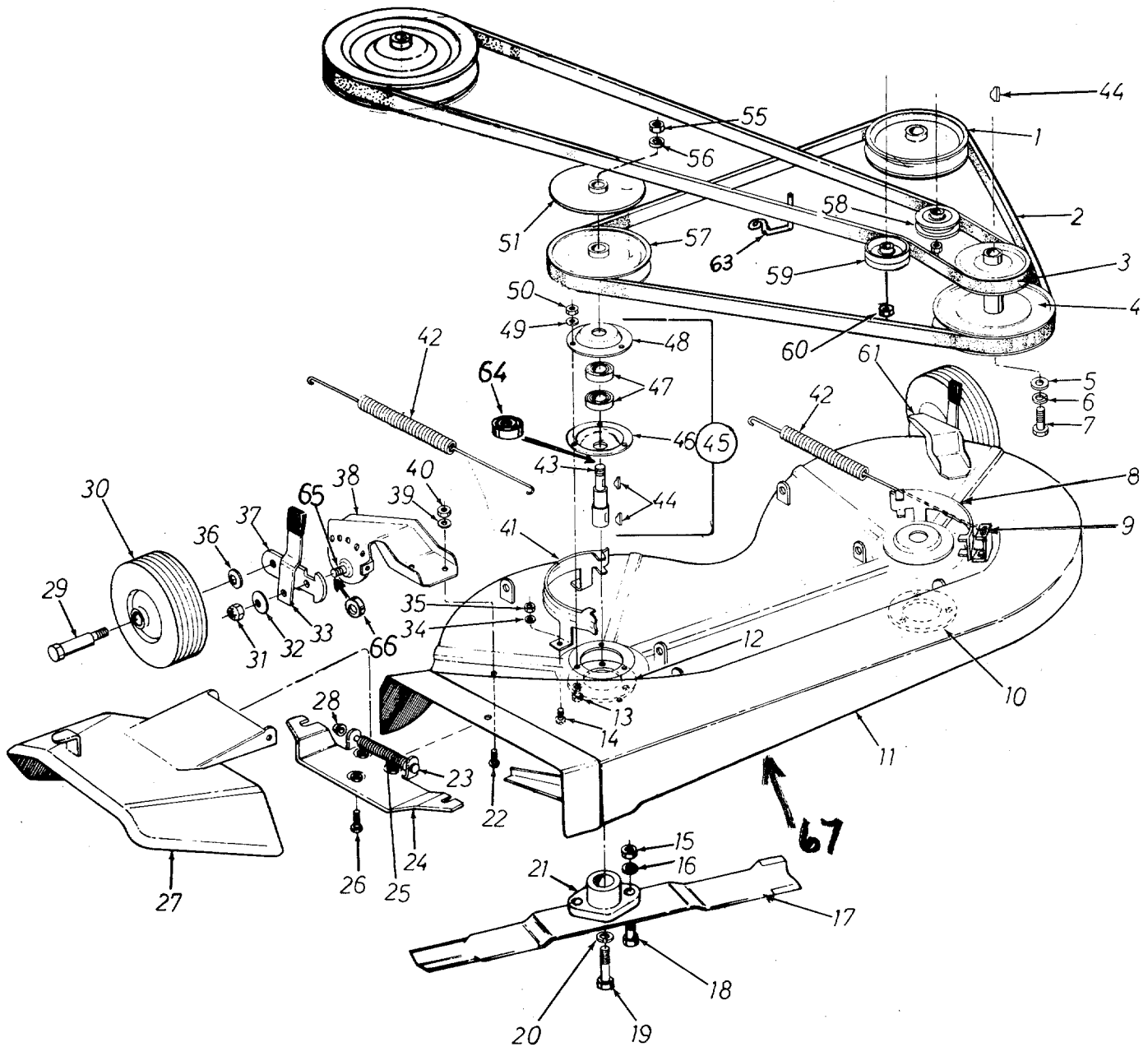


# 130-497A



## IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide a temporary service.



# PARTS LIST FOR MODEL 130-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0251		Deck Pulley 4.75" O.D.		32	736-0219		Bell-Wash. .400 I.D. x .88 O.D.	
2	754-0145		"V"-Belt 21/32 x 69" Lg. (Blade Drive Belt)		33	14082		Spring Lever Ass'y. w/Knob	
3	754-0226		"V"-Belt 1/2 x 82" Lg. (Transmission)		34	736-0329		L-Wash. 1/4" Scr.*	
4	756-0302		Two Step Engine Pulley		35	712-0287		Hex Nut 1/4-20 Thd.*	
5	711-0572		Step Wash. O.D.		36	736-0105		Bell-Wash. .400 I.D. x .88 O.D.	
6	736-0169		L-Wash. 3/8" Scr.*		37	10937		Wheel Pivot Bar	
7	710-0331		Hex Scr. 3/8-24 x 2.25" Lg. (Grade 5)		38	09080		Wheel Brkt.—R.H. (Deck)	
8	12672		Belt Guard—L.H. Deck		39	736-0329		L-Wash. 1/4" Scr.*	
9	12405		Deck Spring Brkt.		40	712-0287		Hex Nut 1/4-20 Thd.*	
10	09164		Deck Reinforcement Plate		41	12673		Belt Guard—R.H. (Deck)	
11	13453		38" Deck Ass'y. Comp.		42	732-0307		Extension Spring	
12	09164		Deck Reinforcement Plate		43	711-0255		Blade Spindle	
13	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*		44	714-0365		#6 Hi-Pro Key 5/32 x 5/8" Dia.	
14	710-0289		Hex Scr. 1/4-20 x .50" Lg.*		45	09321		Spindle Ass'y. Comp. (Deck)	
15	712-0123		Hex Nut 5/16-24 Thd.*		46	08253		Bearing Housing	
16	736-0119		L-Wash. 5/16" Scr.*		47	741-0919		Ball Bearing .787 I.D. x 1.85 O.D.	
17	742-0122		19" Blade		48	08253		Bearing Housing	
18	710-0117		Hex Scr. 5/16-24 x 1.00" Lg.		49	736-0329		L-Wash. 1/4" Scr.*	
19	710-0459		Hex Scr. 3/8-24 x 1.50" Lg. H.T.		50	712-0287		Hex Nut 1/4-20 Thd.*	
20	736-0217		L-Wash. 3/8" Scr. (Heavy Duty)		51	09322		Blade Brake Disc	
21	748-0189		Blade Adapter		55	712-0261		Hex Jam Nut 5/8-11 Thd.	
22	710-0289		Hex Scr. 1/4-20 x .50" Lg.*		56	736-0158		L-Wash. 5/8" Scr.*	
23	711-0571		Pivot Pin		57	756-0251		Deck Pulley 4.75" O.D.	
24	11399		Adapter Plate Ass'y.		58	756-0156		"V"-Belt Idler 3.06" O.D.	
25	732-0261		Torsion Spring		59	756-0217		Fl. Idler 2.75" O.D. w/Flanges	
26	710-0195		Hex Scr. 1/4-28 x .62" Lg.*		60	712-0116		Hex Ins. L-Nut 3/8-24 Thd.	
27	11574		Chute Cover Ass'y.		61	09082		Wheel Brkt.—L.H. (Deck)	
28	726-0106		Push Nut—1/4" Rod		63	732-0358		Belt Trap	
29	738-0373		Shld. Scr. .478 Dia. x 1.53" Lg.		64	13703		Bearing Shield	
30	734-0973		Wheel Ass'y.—5.0 x 1.38 Dia. (Deck)		65	710-0342		Hex Bolt 3/8-16 x 1.00" Lg.	
31	712-0181		Hex L-Nut 3/8-16 Thd.		66	748-0279		Shoulder Spacer	
						<del>12362</del>		38" Deck Ass'y. Comp. <del>(For Service) (Not Shown)</del>	
					67	13454		Housing	

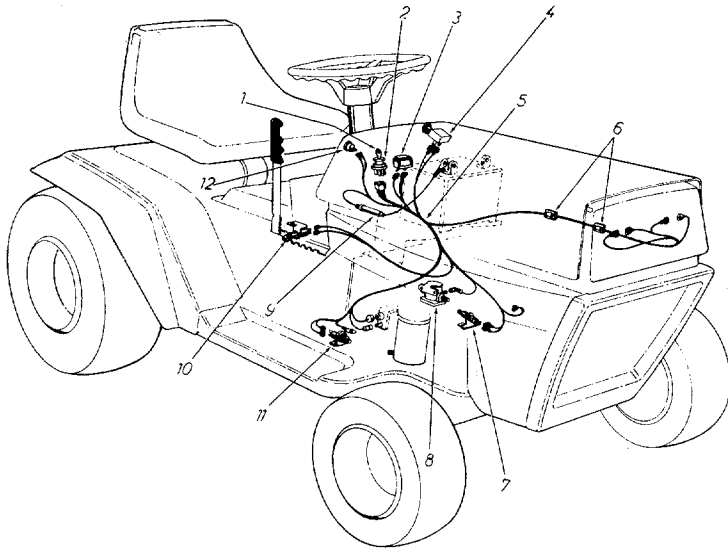
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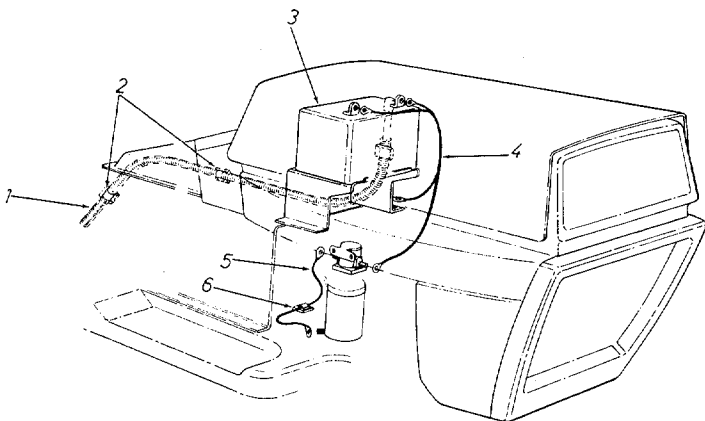
### PARTS LIST FOR MODEL 130-497A

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0201	Ignition Key	
2	725-0267	Ignition Switch	
3	725-0119	Ammeter	
4	725-0634	Headlight Switch	
5	725-0641	Wire Harness	
6	726-0152	Mtg. Clamp	
7	725-0268	Safety Switch	
8	725-0530	Solenoid	
9	725-0298	Fuse 7 1/2 Amp 1/4 Dia. x 1.25 Lg.	
10	725-0268	Safety Switch	
11	725-0269	Safety Switch—Red w/Brkt.	
12	725-0635	Indicator Light	



### PARTS LIST FOR MODEL 130-497A

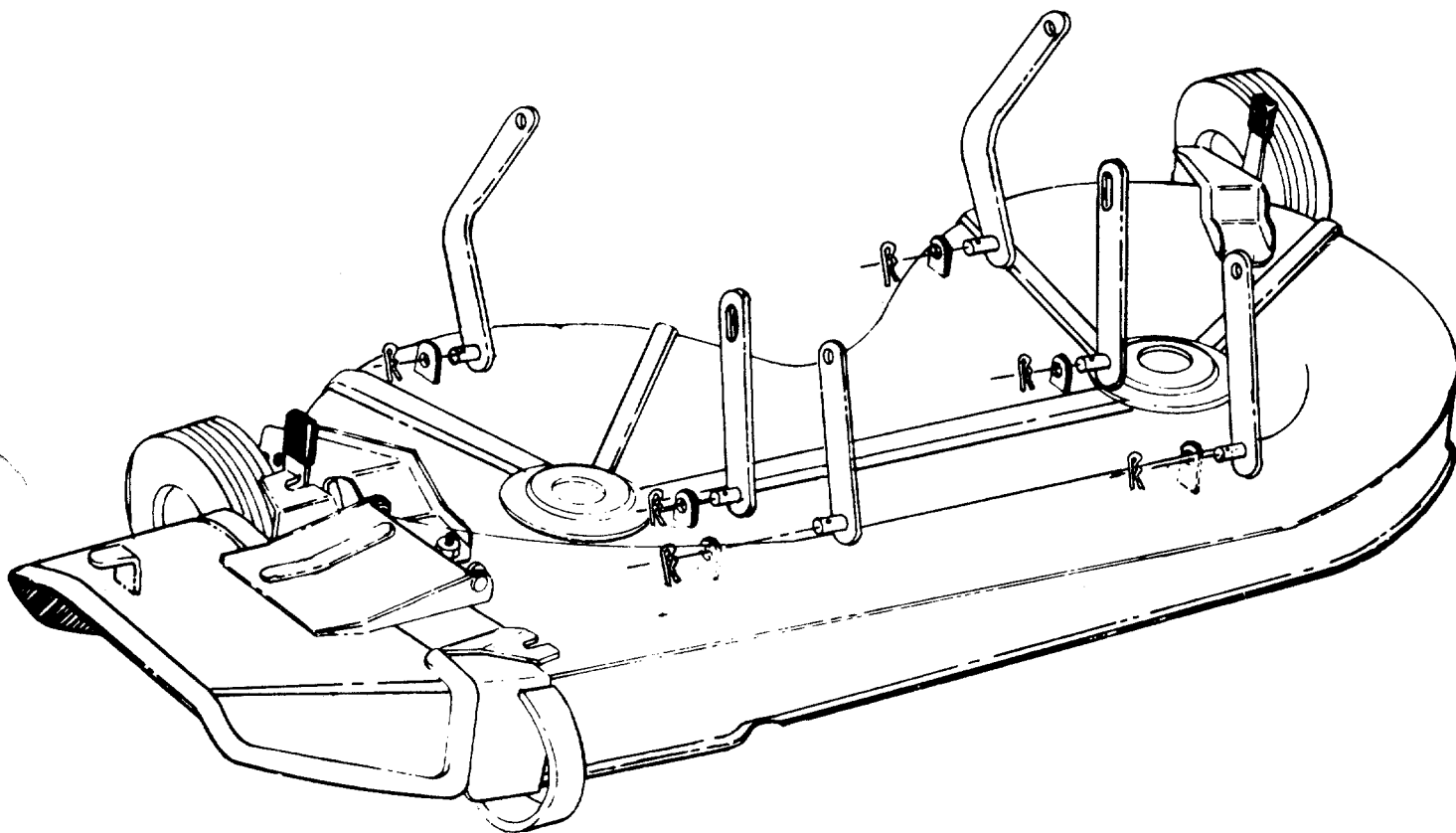
REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	731-0333	Convuluted Conduit	
2	726-0154	Push Mtg. Ties 3/8 I.D.	
3	725-0453	Battery 12 V-Manifold Vented	
4	725-0503	Battery Cable Harness	
5	725-0121	Electric Wire	
6	726-0152	Mtg. Clamp	



## DECK LINKAGE



Refer to illustration below for proper deck link hook up. If the deck is removed for any reason use the illustration below for correct assembly.



# 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, parts number, description of parts and the quantity of each part required.

<b>ALABAMA</b>	<b>BIRMINGHAM</b>
Auto Electric & Carburetor Co. ....	2625 4th Ave. S. .... 35233
<b>ARKANSAS</b>	<b>FORT SMITH</b>
Mity Mite Motors, Inc. ....	4515 South 16th Street 72901
	<b>NORTH LITTLE ROCK</b>
Sutton's Lawn Mower Shop ....	Rt. 4 Box 368. .... 72117
<b>CALIFORNIA</b>	<b>PORTERVILLE</b>
Billious ....	75 North D Street .... 93257
	<b>SAN BERNARDINO</b>
Lawn Mower Supply Co. ....	25608 E. Baseline .... 92410
	<b>SAN FRANCISCO</b>
J.W. Jewett Co. ....	981 Folsom St. .... 94107
<b>COLORADO</b>	<b>DENVER</b>
South Denver Lawn Equip. ....	527 West Evans .... 80223
<b>FLORIDA</b>	<b>JACKSONVILLE</b>
Radco Distributors ....	2403 Market St. .... 32206
	<b>OPA LOCKA</b>
Small Eng. Dist. ....	2351 N.W. 147th St. .... 33054
<b>GEORGIA</b>	<b>EAST POINT</b>
East Point Cycle & Key ....	2834 Church St. .... 30344
<b>ILLINOIS</b>	<b>LYONS</b>
Keen Edge Co. ....	8615 Ogden Ave. .... 60534
<b>INDIANA</b>	<b>ELKHART</b>
Parts & Sales Inc. ....	2101 Industrial Pkwy. .... 46514
<b>IOWA</b>	<b>DUBUQUE</b>
Power Lawn & Garden Equip. ....	2551 J.F. Kennedy. .... 52001
<b>LOUISIANA</b>	<b>NEW ORLEANS</b>
Suhren Engine Co. ....	8330 Earhart Blvd. .... 70118
<b>MARYLAND</b>	<b>TAKOMA PARK</b>
Center Supply Co. ....	6867 New Hampshire Ave. .... 20012
<b>MASSACHUSETTS</b>	<b>SPRINGFIELD</b>
Morton B. Collins Co. ....	300 Bernie Ave. .... 01107
<b>MICHIGAN</b>	<b>LANSING</b>
Lorenz Service Co. ....	2500 S. Pennsylvania. .... 48910
	<b>MOUNT CLEMENS</b>
Power Equipment Dist. ....	36463 South Gratiot .. 48043
<b>MINNESOTA</b>	<b>HOPKINS</b>
Hance Distributing Inc. ....	420 Excelsior Ave. W. .... 55343
	<b>ST. PAUL</b>
Power Tools Inc. ....	3771 Sibley Memorial Hwy. .... 55122
<b>MISSISSIPPI</b>	<b>BILOXI</b>
Biloxi Sales & Service, Inc. ....	506 Caillavet St. .... 39533
<b>MISSOURI</b>	<b>KANSAS CITY</b>
Automotive Equip. Service ....	3117 Holmes St. .... 64109
	<b>ST. JOSEPH</b>
Ross-Frazier Supply Co. ....	8th and Monteray .... 64503
	<b>ST. LOUIS</b>
Henzler, Inc. ....	2015 Lemay Ferry Rd. .... 63125
<b>NEW JERSEY</b>	<b>BELLMAWR</b>
Lawnmower Parts Inc. ....	717 Creek Rd. .... 08030
	<b>RUTHERFORD</b>
Feld Distributor ....	28 Glen Rd. .... 07070
<b>NEW YORK</b>	<b>CARTHAGE</b>
Gamble Dist., Inc. ....	West End Ave. .... 13619

## 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.

	<b>SYRACUSE</b>
GTP Leisure Products Inc. ....	420 Marcellus St. .... 13204
<b>NORTH CAROLINA</b>	<b>GOLDSBORO</b>
Smith Hardware Co. ....	515 N. George St. .... 27530
	<b>GREENSBORO</b>
Dixie Sales Company ....	327 Battleground Ave. 27402
<b>OHIO</b>	<b>CARROLL</b>
Stebe's Mid-State Mower Supply ...	Box 366-71 High St. ... 43112
	<b>CLEVELAND</b>
Bleckrie, Inc. ....	7900 Lorain Ave. .... 44102
	<b>WADSWORTH</b>
National Central ....	687 Seville Rd. .... 44281
	<b>YOUNGSTOWN</b>
Burton Supply Co. ....	1301 Logan Ave. Box 929 .. 44501
<b>OKLAHOMA</b>	<b>ADA</b>
Ada Auto Supply ....	301 E. 12th St. .... 74820
	<b>MUSKOGEE</b>
Victory Motors, Inc. ....	605 S. Cherokee. .... 74401
	<b>OKLAHOMA CITY</b>
Forest Sales Inc. ....	1039 NW 63rd St. .... 73116
<b>OREGON</b>	<b>PORTLAND</b>
Kenton Supply Co. ....	8216 N. Denver Ave. ... 97217
<b>PENNSYLVANIA</b>	<b>CHESTER</b>
Stull Equipment Corp. ....	742 W. Front St. .... 19013
	<b>HARRISBURG</b>
EECO Inc. ....	4021 N. 6th St. .... 17110
	<b>PHILADELPHIA</b>
Thompson Rubber Co. ....	5222-24 N. Fifth St. ... 19120
	<b>PITTSBURGH</b>
Bluemont Co. ....	11125 Frankstown Rd. 15235
<b>TENNESSEE</b>	<b>KNOXVILLE</b>
Master Repair Service. ....	2000 Western Ave. .... 37921
	<b>MEMPHIS</b>
Memphis Cycle & Supply Co. ....	421 Monroe Ave. .... 38103
American Sales & Service, Inc. ....	1922 Lynnbrook. .... 38116
<b>TEXAS</b>	<b>DALLAS</b>
Marr Brothers, Inc. ....	423 E. Jefferson. .... 75203
	<b>FORT WORTH</b>
Woodson Sales Corp. ....	1702 N. Sylvania .... 76111
	<b>HOUSTON</b>
Bullard Supply Co. ....	2409 Commerce St. ... 77003
	<b>SAN ANTONIO</b>
Catto & Putty, Inc. ....	414 Live Oak .... 78298
<b>UTAH</b>	<b>SALT LAKE CITY</b>
A-1 Engine & Mower Co. ....	437 E. 9th St. .... 84111
<b>VERMONT</b>	<b>BURLINGTON</b>
Vermont Hdwe. Co. Inc. ....	180 Flynn Ave. .... 05401
<b>VIRGINIA</b>	<b>RICHMOND</b>
RBI Corp. ....	963 Myers St. .... 23260
<b>WASHINGTON</b>	<b>SEATTLE</b>
Bailey's Inc. ....	1414 14th Ave. .... 98102
<b>WEST VIRGINIA</b>	<b>CHARLESTON</b>
Young's, Inc. ....	233 Virginia St., E. .... 25301
<b>WISCONSIN</b>	<b>APPLETON</b>
Automotive Supply Co. ....	123 S. Linwood Ave. ... 54911

## 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 which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES

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

All claims MUST be substantiated with the following information:

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