

# Owner's Operating Service Instruction Manual

10¢

Model Nos.  
135-495A  
135-497A

- ASSEMBLY
- OPERATION
- REPAIR PARTS

## 38" RIDING MOWERS

### WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. **UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED.**

# **I M P O R T A N T**

## **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.
3. Do not carry passengers. **Keep children and pets a safe distance away.**
4. Clear work area of objects which might be picked up and thrown.
5. Disengage all attachment clutches and shift into neutral before attempting to start engine .
6. Disengage power to attachment(s) and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine before making any repairs or adjustments.
8. Disengage power to attachment(s) when transporting or not in use.
9. 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.
10. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
11. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
12. Stay alert for holes in terrain and other hidden hazards.
13. 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.
14. Watch out for traffic when crossing or near roadways.
15. When using any attachments never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
16. 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.
17. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
18. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
19. 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.
20. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
21. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object, and the damage should be repaired before restarting and operating the equipment.
22. Do not change the engine governor settings or overspeed the engine.
23. 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 engine off when removing grass catcher and/or unclogging chute.
  - (4) Check blade mounting bolts for proper tightness at frequent intervals.
24. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.
25. Look behind to make sure the area is clear before placing the transmission in reverse and backing up.

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## ASSEMBLY

GRASS CATCHER Model No. 195-015A is available as optional equipment for the mowers 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. 764-0121.

**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.

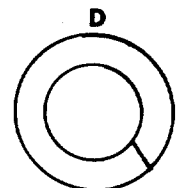
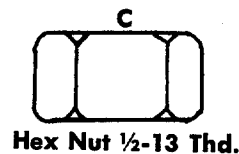
The steering wheel and seat, with the necessary hardware, are easily assembled to the machine. The battery must be activated and installed as outlined in this section.

### TIRE PRESSURE

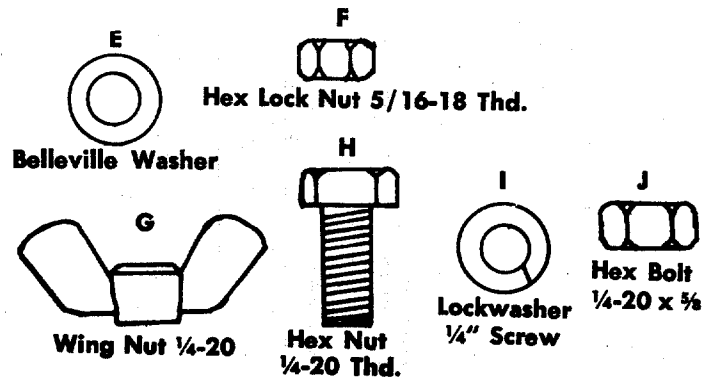
For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should be approximately 15 p.s.i. Equal tire pressure should be maintained on all tires. **Maximum** tire pressure is 30 p.s.i.

### NOTE

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

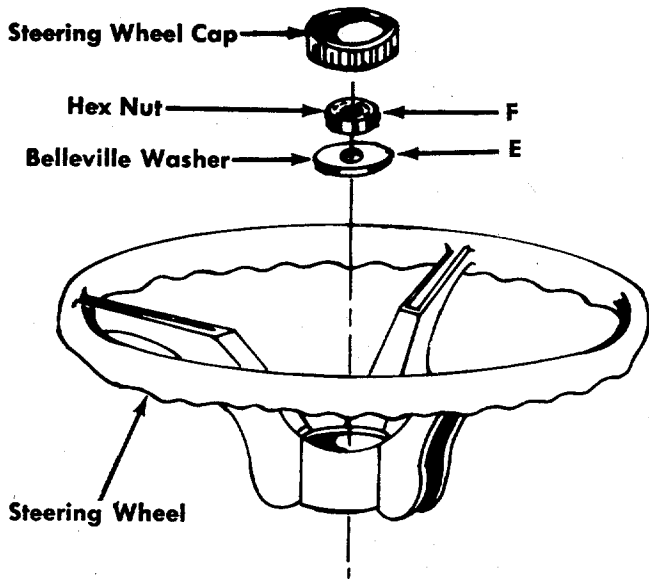


Spring Lockwasher  
1/2" Screw



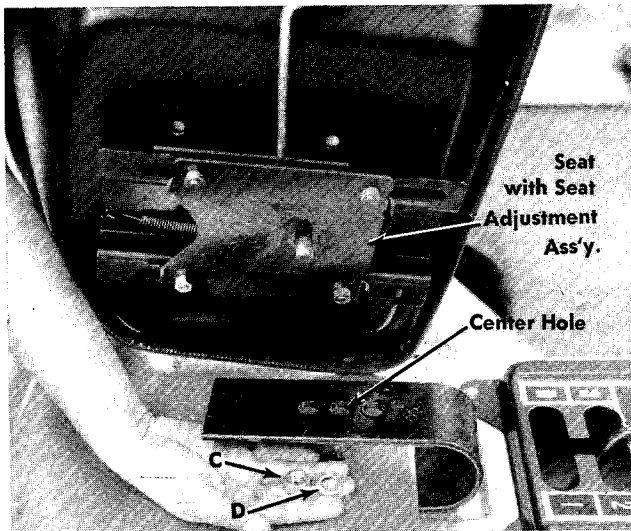
**FIGURE 1. HARDWARE SUPPLIED**

- Step 1. Remove the lawn mower and all parts from the carton. Make certain that all loose parts and literature have been removed before the carton is discarded.
- Step 2. Place steering wheel over steering shaft.
- Step 3. Secure with Belleville Washer (E) and Hex Nut (F). See figure 2.
- Step 4. Press the cap on the steering wheel by hand. See figure 2.



**FIGURE 2. STEERING WHEEL ASSEMBLY**

Step 5. Place seat and seat adjustment assembly on seat spring (center hole). Secure with Hex Nut (C) and Lockwasher (D). See figure 3.



**FIGURE 3. SEAT ASSEMBLY**

**NOTE**

Check ALL nuts and bolts for correct tightness.

**ACTIVATING THE BATTERY**

**DANGER**

**BATTERIES CONTAIN SULFURIC ACID  
MAY CONTAIN EXPLOSIVE GASES  
(When Electrolyte Has Been Added)**

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

**WARNING**

Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and mutilate before discarding. If acid is accidentally spilled on battery during filling or charging, or on bench or clothing, etc., flush off with clear water and neutralize with soda or ammonia solution.

1. Place battery to be filled on bench or workbench. Never activate battery in mower. Remove vent plugs from all cells.
2. Fill each cell carefully using battery grade 1.250-1.265 specific gravity. Sulfuric acid to  $\frac{3}{8}$ " above the top of the separators or to the split ring.
3. Allow battery to set for 20 minutes. Battery can then be installed, however, to have maximum capacity the battery should be placed on a charger after the 20 minutes setting period. Battery can be charged at maximum of 35 amperes until the specific gravity reading is 1.265-1.275.
4. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225 remove battery and re-charge.
5. 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. Coat the terminals with a thin coat of grease.
6. If the battery is not going to be used in the winter, remove the battery and store in a cool, dry place. Do not store directly on a concrete floor as this will drain the battery. Recharge whenever the specific gravity is less than 1.225.

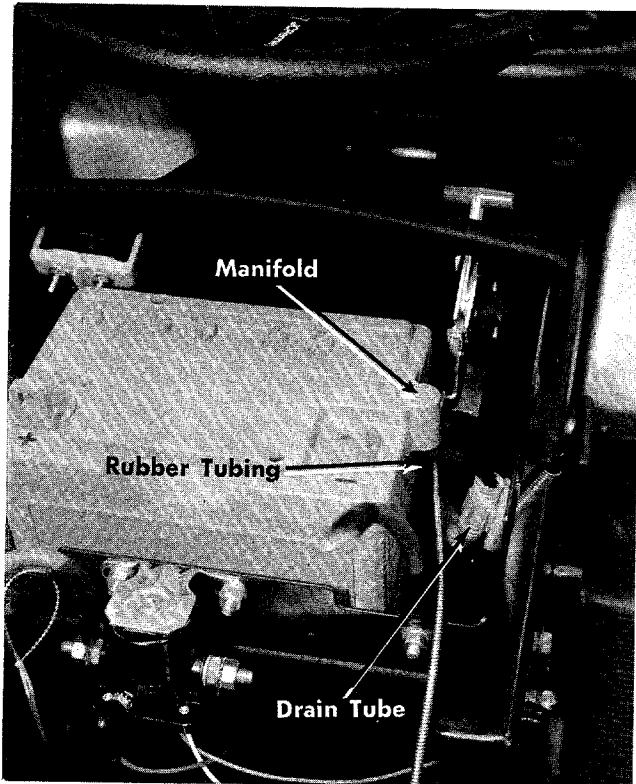
7. Install the battery.
  - a. Open the hood of the mower.
  - b. Place the battery with the terminals to the FRONT in the battery case. See figure 4.
  - c. Hook both hold-down rods under the battery case and place the hold down over the battery caps and secure with wing nuts G.

**CAUTION**

Be sure the flared edge of the hold down is facing up to avoid damage to the battery.

**INSTALLING THE BATTERY**

1. Open the hood of the riding mower.
2. Place the battery in the battery case with the terminal to the front. See figure 4.



**FIGURE 4.**

3. Cut the black rubber tubing approximately 4 inches long.
4. Push the rubber tubing into the manifold of the battery and place the other end into the drain tube. See figures 4 and 5.

**NOTE**

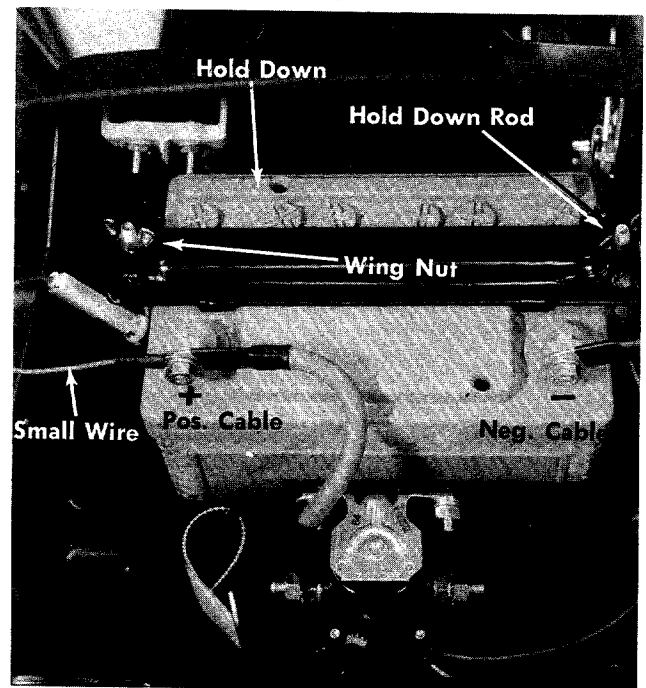
The vented battery allows any gases or liquid from the battery to be carried to the rear of the mower through the drain tube.

5. Hook the hold down rods under the battery case and place the hold down over the manifold of the battery as shown in figure 6.
6. Secure the hold down with the wing nuts.



**FIGURE 5**

7. Attach the positive cable (from the starter solenoid) and the small wire (from the ammeter) to the positive battery terminal with the bolt, lockwasher and nut in the assembly pack.
8. Attach the negative cable, grounded, to the negative battery terminal with the bolt, lockwasher and nut in the assembly pack.



**FIGURE 6**

## CONTROLS

### CONTROLS

The controls on both models 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 7.

b. **Gear Shift Lever.** The gear shift lever is used to shift into one of three FORWARD GEARS, NEUTRAL or REVERSE. See figures 7 and 8.

c. **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 9.

d. **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 9.

e. **Clutch Pedal.** The clutch pedal is used to disengage the drive mechanism. Depressing the clutch pedal at any time will reduce mower speed. If depressed all the way, it will stop the mower. See figure 10.

f. **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 8. The clutch lockout must be in this position before the engine will start.

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 7.

h. **Light Switch.** Pull the light switch out to turn on the lights. The lights will only operate when the engine is running. See figure 7.

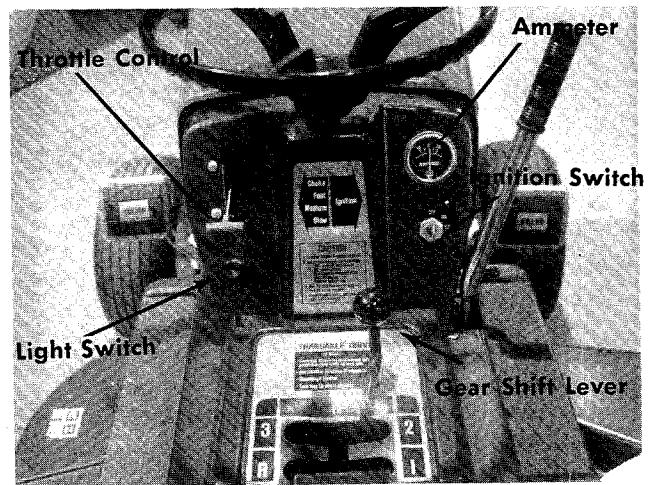


FIGURE 7. CONTROLS

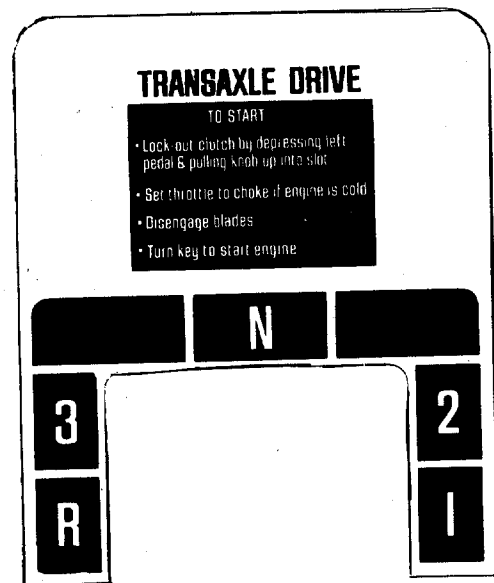
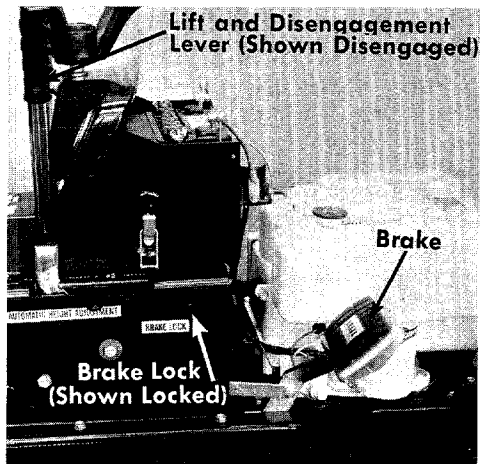


FIGURE 8. SHIFT PATTERN



**FIGURE 9. RIGHT HAND CONTROLS**



**FIGURE 10. LEFT HAND CONTROLS**

**i. Ignition Switch.** The ignition switch is located on the right side of the dashboard.

**Electric Start.** See figure 7. 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.

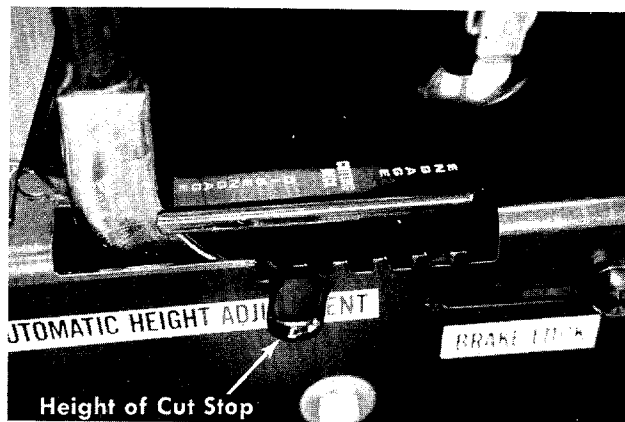
**NOTE**

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

**i. 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 9.

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

**Height of Cut Stop.** See figure 11. Lift the stop and set it at the desired cutting height.



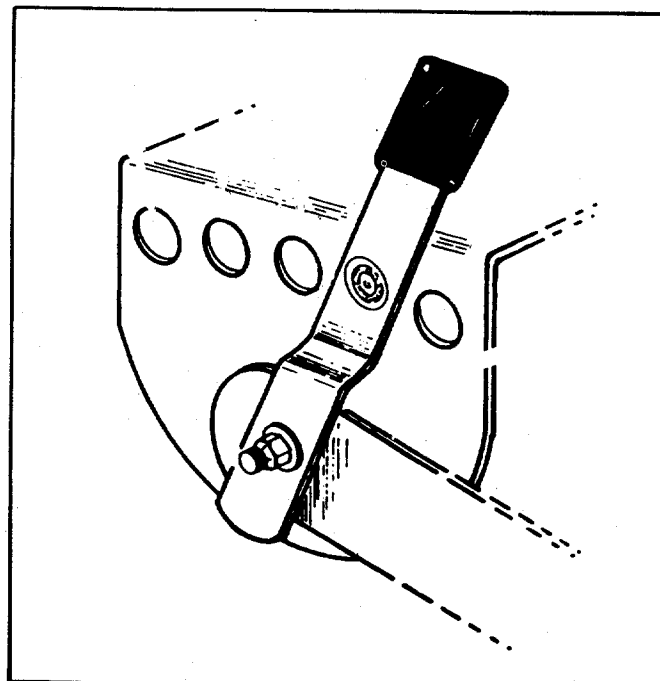
**FIGURE 11. HEIGHT OF CUT SETTINGS**

**Wheel Height Adjuster.** See figure 12. Move the lever towards the wheel and set it in the desired cutting height.

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 12. Set height of cut stop in the 1½ position. See figure 11.

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 wheel so they just clear the ground.



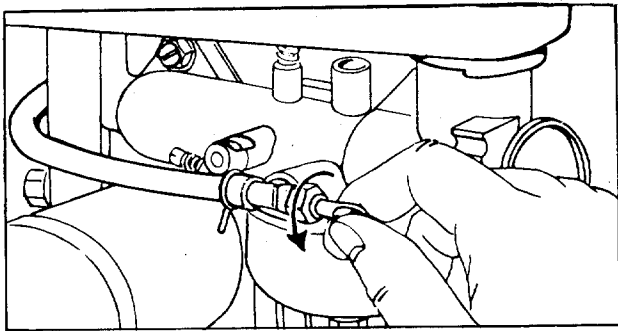
**FIGURE 12. WHEEL HEIGHT ADJUSTER**

# OPERATING INSTRUCTIONS

## 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. See figure 13.



**FIGURE 13. FUEL SHUT-OFF VALVE**

Step 2. Place the clutch lockout in the START position. See figure 10.

Step 3. Place the lift and disengagement lever in the DISENGAGED position. See figure 9.

Step 4. Set the throttle control in the CHOKE position. See figure 7.

### NOTE

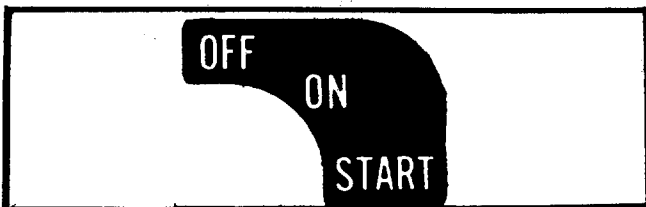
This unit is equipped with a brake indicator light which is located on the dash panel. Whenever the starter key is on and the brake pedal is depressed, it will light.

### 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.

### Electric Start

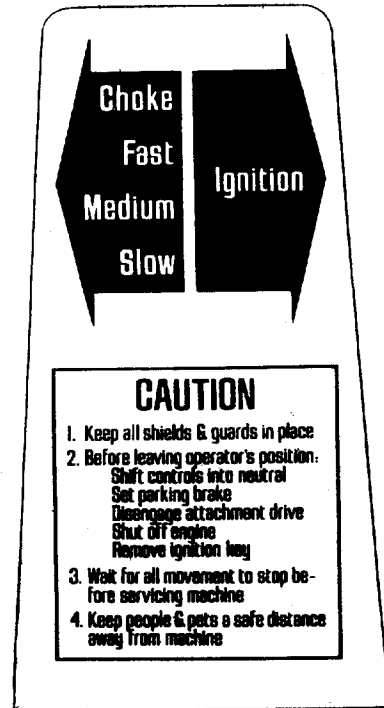
See figures 14 and 15. Turn the ignition key to the START position. When the engine is running, let the key return to the ON position.



**FIGURE 14. STARTER SWITCH**

### NOTE

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.



**FIGURE 15. DASH PANEL LABEL**

### CAUTION

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

### NOTE

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

## STOPPING THE ENGINE

Turn the ignition key to the left to the OFF position and remove the key to prevent accidental starting.

## OPERATING THE MOWER

Step 1. Set the desired cutting height.

Step 2. Start the engine as outlined above.

Step 3. Select gear and shift.



### NOTE

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 4. 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 5. 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.

### CAUTION

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 9) into the DISENGAGED position. This raises the deck and disengages the blades.

### NOTE

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

## 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.

After the first five hours of operating a new engine, drain the oil (See figure 16.) 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 for minimum wear of engine parts and provides for 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 14.

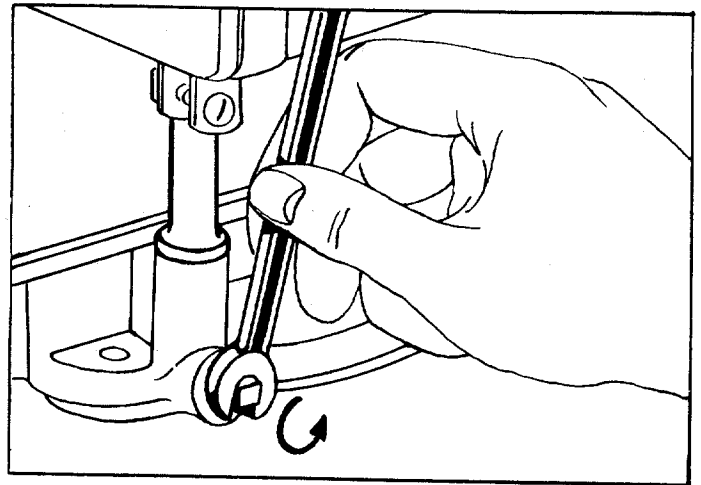


FIGURE 16. OIL DRAIN

- 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 into the crankcase. Summer use SAE 30; Winter (Below 40° F) use SAE 5W-20 or SAE 10W.

### LUBRICATION

Lubricate the wheel bearings (2 per wheel) and the upper and lower spindle bearings with SAE 30 oil once a season. See figure 17.

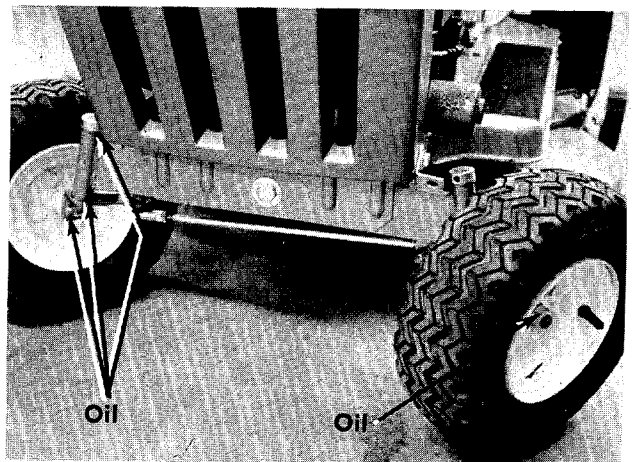


FIGURE 17. WHEEL AND SPINDLE BEARINGS

## 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 18.

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.

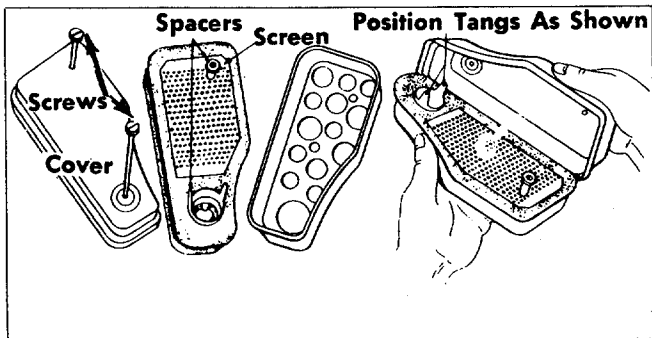


FIGURE 18. AIR CLEANER

## 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 automatically maintained by the spring on the variable speed bracket on the drive belts and the belt tension on the deck belt is maintained by the two deck springs.

## SPARK PLUG

The spark plug gap should be cleaned and reset to a 0.030-inch clearance every 25 hours of engine operation (See figure 19.) 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.

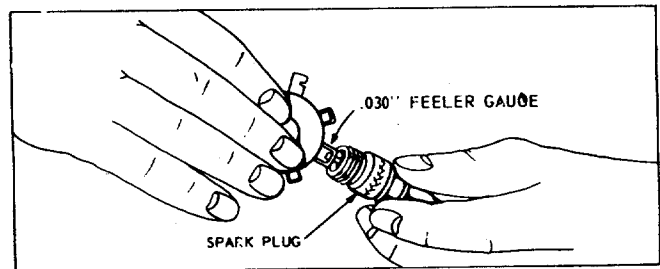


FIGURE 19. SPARK PLUG CLEARANCE

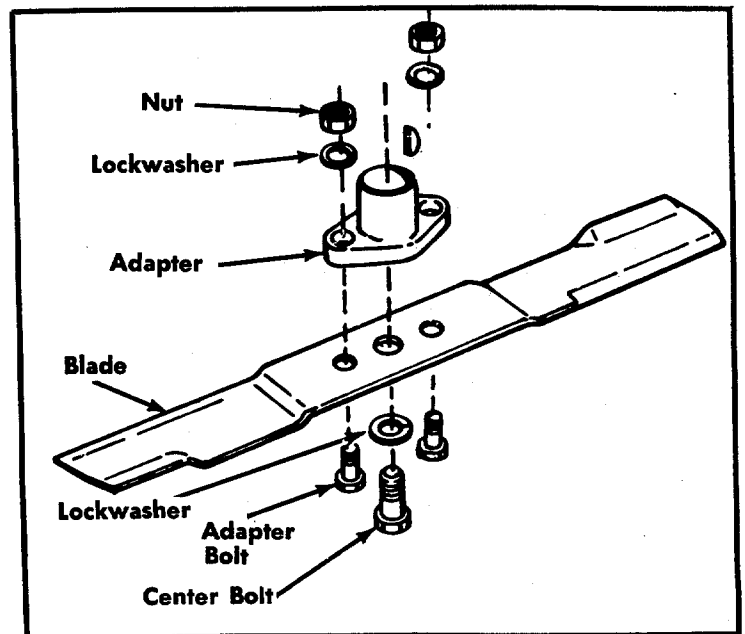


FIGURE 20. BLADE REMOVAL

## REPLACING BLADE

### WARNING

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

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

**Removing and Sharpening Blades.** Remove the center bolt and lockwasher. See figure 20. Pull the blade and blade adapter from the blade spindle.

## WHEEL ADJUSTMENT

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

To adjust the toe-in follow these steps.

- Step 1. Remove the elastic locknut and drop the tie rod end from the wheel bracket. See figure 21.
- Step 2. Loosen the hex jam nut on the rod.
- Step 3. Adjust the tie rod assembly for correct toe-in.

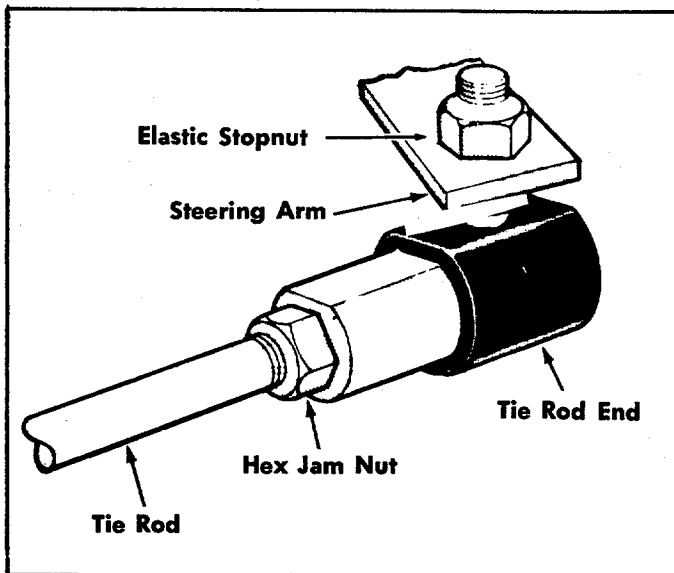


FIGURE 21. TIE ROD END

## ADJUSTMENT

Dimension "B" should be approximately 1/8" less than dimension "A".

- A.) To increase dimension "B", screw the rod into tie rod end.
- B.) To decrease dimension "B", unscrew tie rod from tie rod end.
- C.) Reassemble the rod. Check dimensions. Readjust if necessary.

## NOTE

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

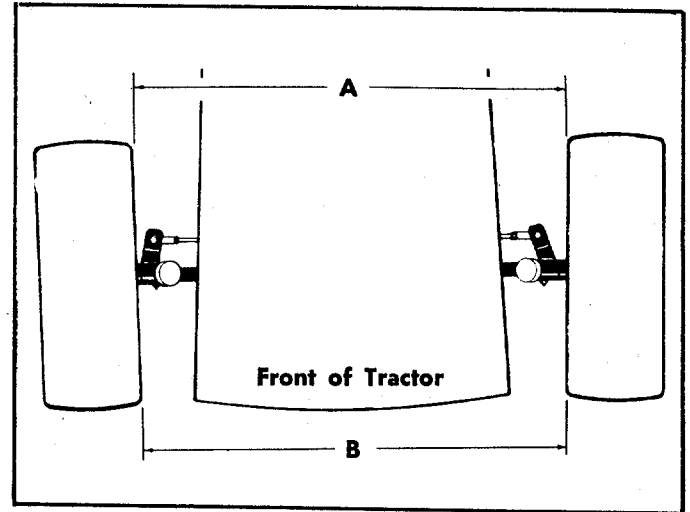


FIGURE 22. TOE-IN DIAGRAM

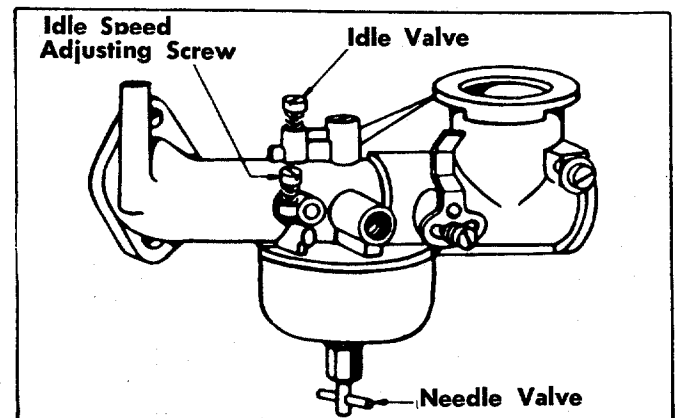


FIGURE 23. CARBURETOR ADJUSTMENT

## ADJUSTING CARBURETOR CHOKE

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

### To Check Operation of Choke-A-Matic Controls:

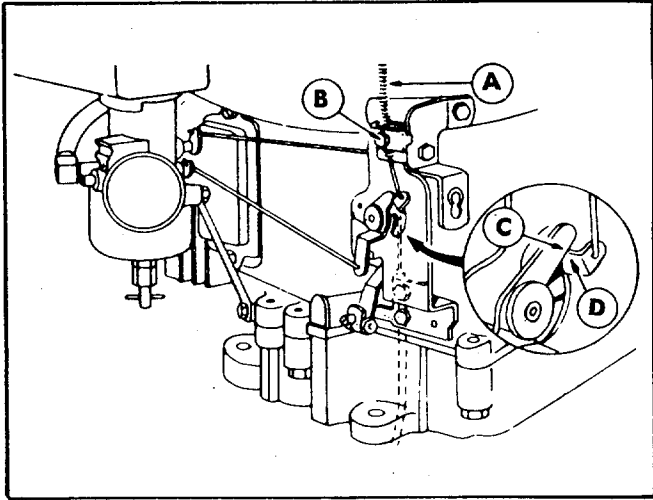
Move control lever to CHOKE position. (See figure 7.) The carburetor choke should be closed.

## NOTE

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

### To Adjust:

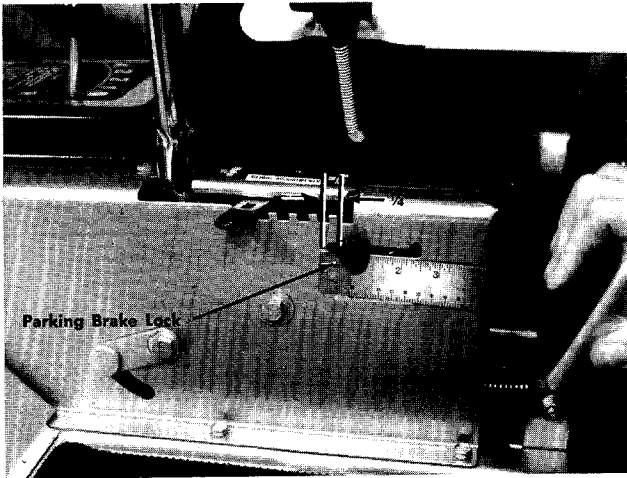
Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 24.



**FIGURE 24. CHOKE ADJUSTMENT**

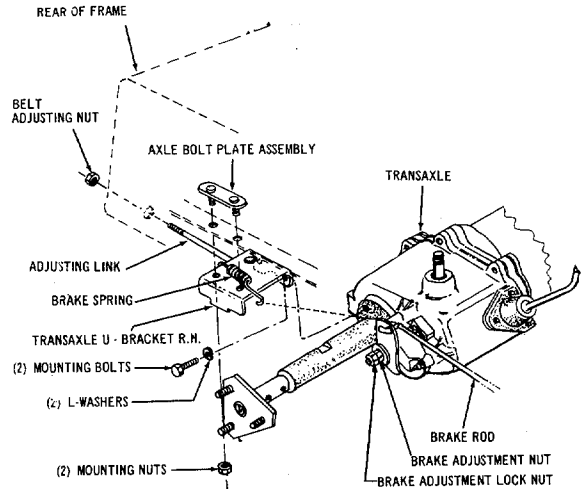
**BRAKE ADJUSTMENT**

1. Move brake pedal forward by hand until pressure or resistance is noted. This is the point where the brake pedal spring begins to stretch.
2. If adjustment is correct, parking brake lock will have moved approximately 1/4". See figure 25.



**FIGURE 25. PARKING BRAKE LOCK**

3. If adjustment is incorrect, tighten or loosen brake adjusting nut until correct dimension is obtained. See figure 26. Over tightening will reduce effective braking action. Lock brake adjustment with brake adjustment lock nut. Periodic adjustment is necessary to maintain effective brake operation.



**FIGURE 26. BRAKE ADJUSTMENT NUT**

**PREPARING FOR BELT REMOVAL**

1. 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.
2. Disconnect the spark plug wire and ground it against the engine.

**NOTE**

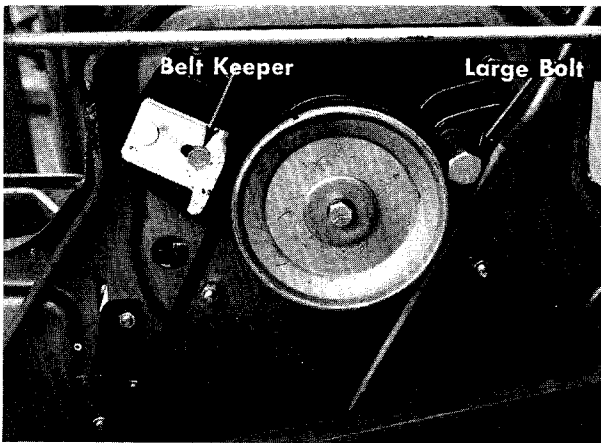
- If the unit is equipped with a battery, continue with step 3.
3. Remove the battery to prevent acid from leaking.



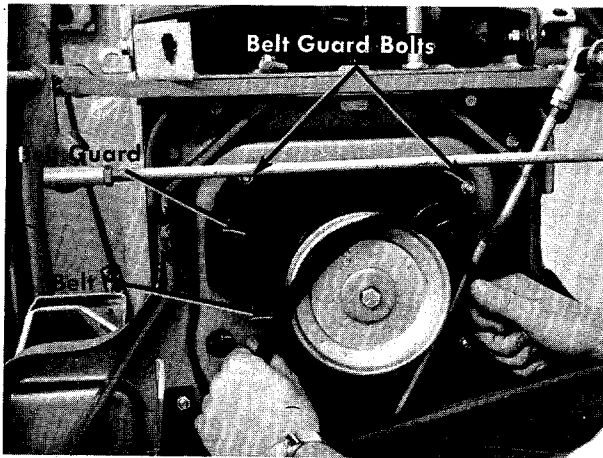
Disconnect the negative terminal first and connect last when installing the battery.

**MOWING UNIT BELT REPLACEMENT**

- Step 1. Place the lift lever in the disengaged position. See figure 9.
- Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 27.
- Step 3. Unhook the belt from the engine pulley. See figure 28.



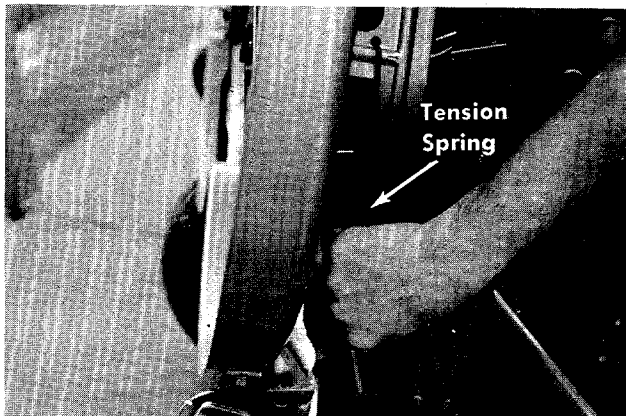
**FIGURE 27. BELT KEEPER**



**FIGURE 28. REMOVING MOWER BELT**

Step 4. Place the lift lever in the engaged position. See figure 9.

Step 5. Unhook the tension springs on both sides of the deck. See figure 29.

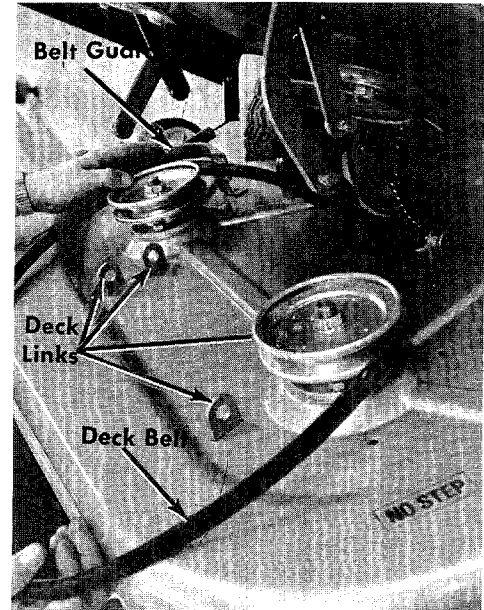


**FIGURE 29. REMOVING TENSION SPRINGS**

Step 6. Remove the front four deck links from the cutting deck. See figure 30.

Step 7. Remove the belt guards from both deck pulleys. See figure 30.

Step 8. Remove and replace the belt and reassemble.



**FIGURE 30. DECK LINKS**

**TRANSMISSION BELTS REMOVAL**

Step 1. Place the lift lever in the disengaged position. See figure 9.

Step 2. Remove the belt keeper and large bolt on the engine pulley. See figure 27.

Step 3. Unhook the belt from the engine pulley. See figure 28.

Step 4. Place the lift lever in the engaged position. See figure 9.

Step 5. Unhook the tension springs on both sides of the deck. See figure 29.

Step 6. Remove the front four deck links from the cutting deck. See figure 30.

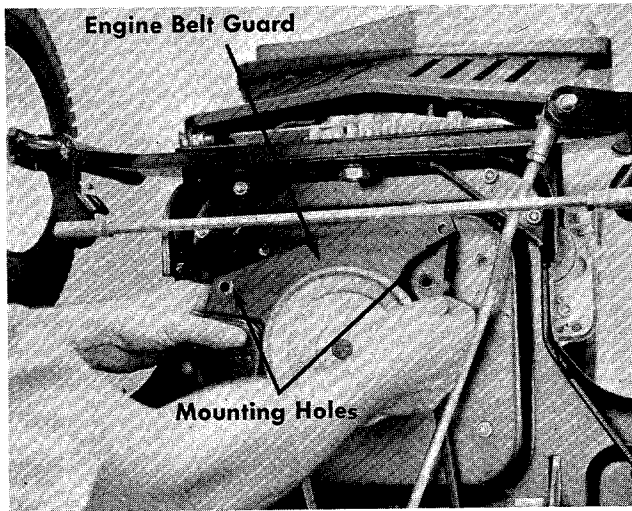
Step 7. Tip the deck down as shown in figure 30.

**NOTE**

Leave the belt attached to the deck pulleys unless you want to replace it.

**NOTE**

By working between the frame and the deck, it is possible to remove and replace the deck belt without removing the deck, however, the working space is limited.

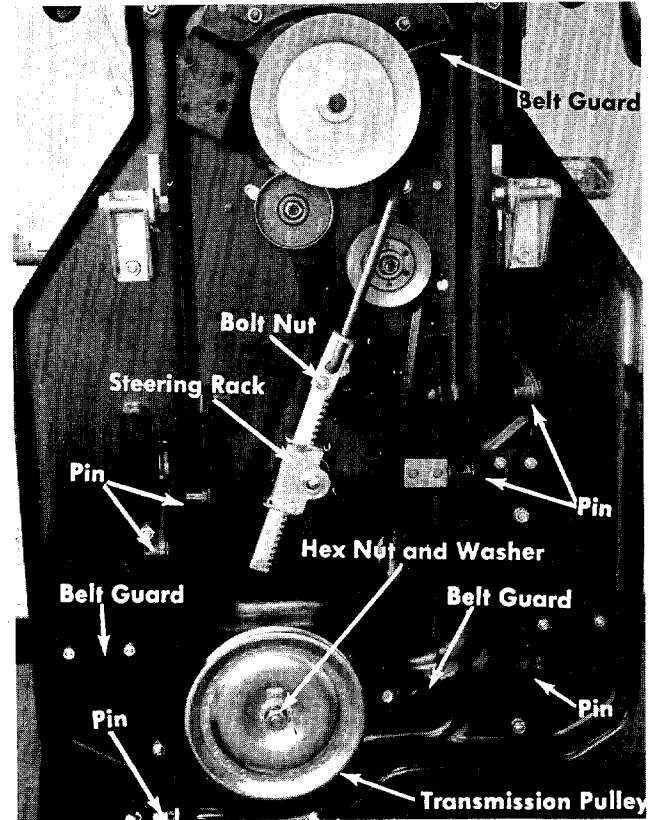


**FIGURE 31. BELT GUARD REMOVAL**

Step 9. Removing the transmission belt. See figure 30.

- a. Remove the entire belt guard from the engine pulley by removing the two front engine bolts. See figure 29.
- b. Remove the transmission pulley by removing the hex nut and washer. See figure 30.
- c. Remove the bolt and nut from the steering rack and remove the belt.

d. Reassemble in reverse order with the new belt.



**FIGURE 32. BOTTOM VIEW**

## OFF-SEASON STORAGE

### 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.



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.

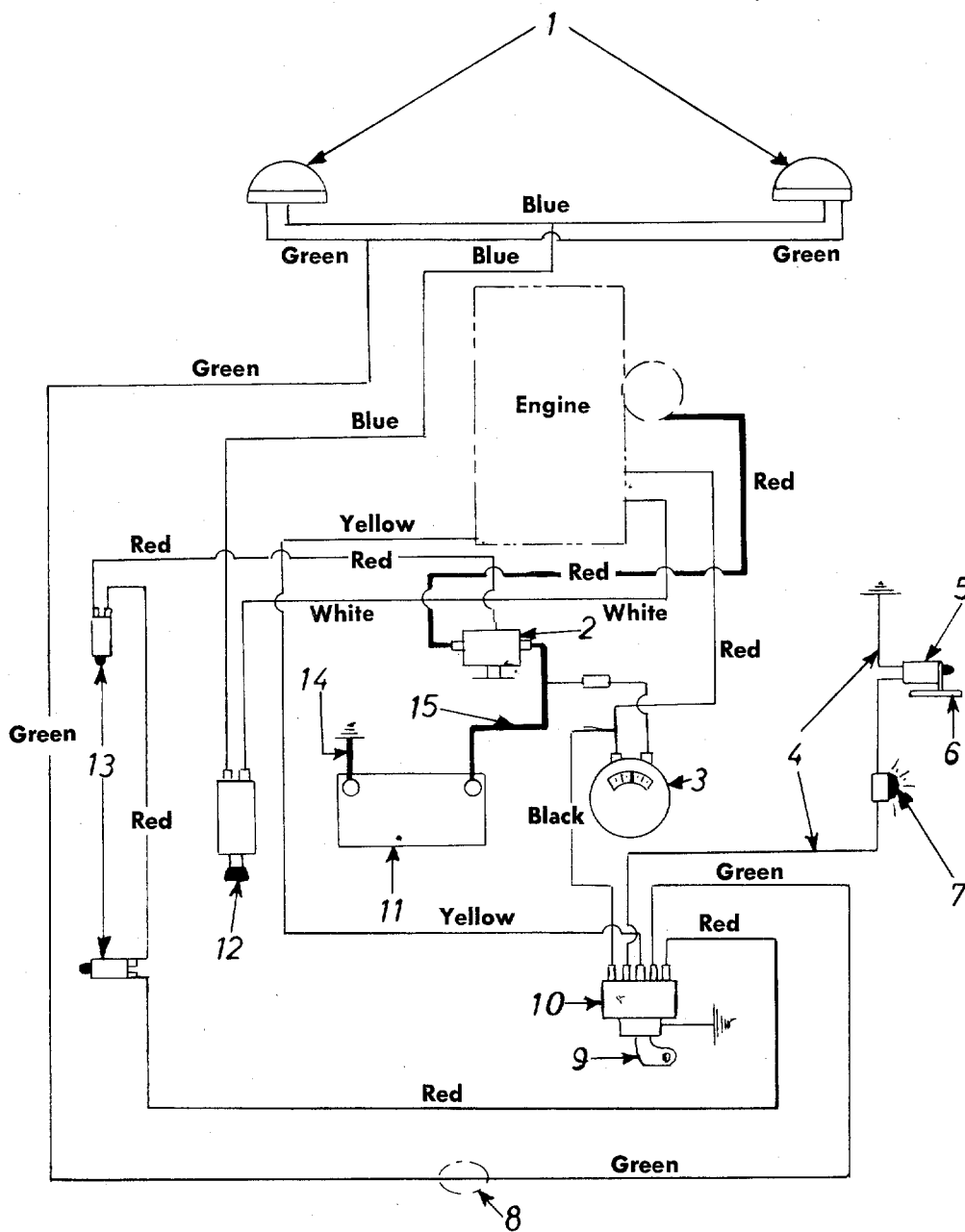
- Step 3. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and then pull the recoil starter several times to spread the oil on the cylinder wall. Replace the spark plug, but DO NOT connect the wire.

- Step 4. Clean the engine and the entire mower thoroughly.

- Step 5. Lubricate all lubrication points indicated in figure 15; then wipe the entire machine with an oiled rag in order to protect the surfaces.

# TROUBLE SHOOTING CHART

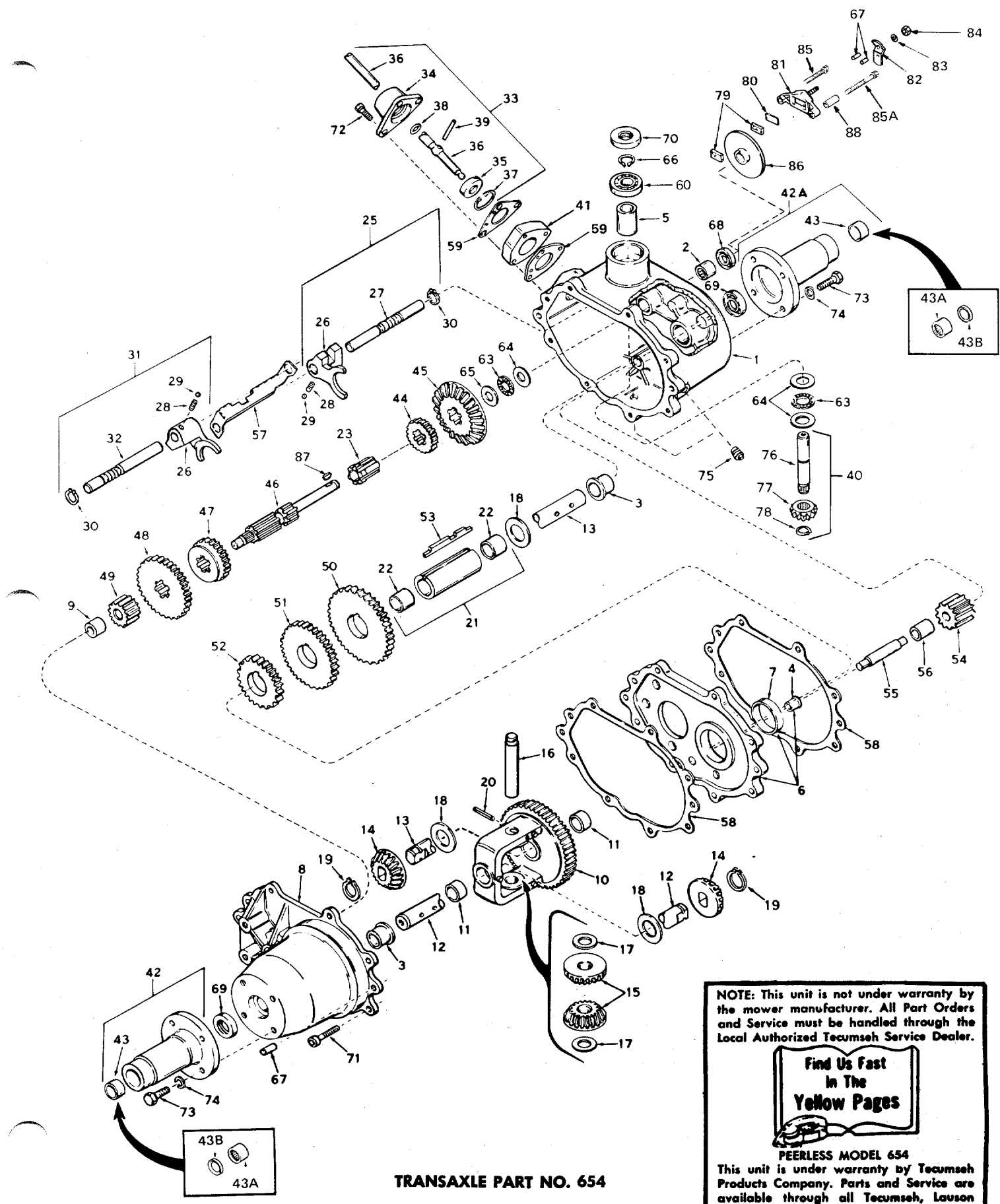
TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	<p>A. Check for a blown fuse in the wire leading from the positive terminal of the battery.</p> <p>B. Before checking the safety system further, be sure the clutch control and the blade control are disengaged; only the starting system is being checked. Therefore remove the spark plug lead and ground it to prevent the engine from starting.</p> <p>C. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal (coil primary) of the solenoid. If the engine cranks, the problem is in the safety system.</p> <p>D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 gauge) and a small wire (#18 gauge) attached to it.</p> <p>E. Check all wires and cable for tightness.</p> <p>F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid.</p> <p>G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.</p>
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	<p>Spark plug lead wire disconnected.</p> <p>Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug.</p> <p>NOTE: Use insulated pliers to hold the spark plug wire.</p>
	Throttle setting.	Throttle control lever not in the starting position.
	Loose connections	Spark plug wire loose.
Hard starting or loss of power.	Dirty air cleaner.	Remove air cleaner and clean as outlined in <b>Engine Manual</b> .
	Carburetor improperly adjusted.	Review paragraph <b>Carburetor Adjustment</b> .
Excessive vibration.	Bent or damaged blade spindle.	Stop engine immediately; tighten all bolts and make all necessary repairs. If vibration continues, have the unit serviced by a competent repairman.
Unit fails to discharge grass.	Discharge chute clogged.	Clean discharge chute and inside of deck.
	Foreign object lodged in deck.	Remove object from deck. See <b>CAUTION</b> following step 1 in paragraph <b>Operation</b> .
Engine overheats.	Obstructions in air passages.	Remove any obstruction from air passages in shroud.
	Grass and dirt in engine shroud.	Clean cooling fins.
	Oil level.	Fill crankcase to proper oil level.



**PARTS LIST FOR ELECTRICAL SCHEMATIC 135-495A AND 135-497A**

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-0222	Headlights	
2	725-0270	Solenoid	
3	725-0119	Ammeter	
4	725-0429	Indicator Wire Harness	
5	725-0379	Safety Switch—Red, without Brkt.	
6	12356	Warning Light Bracket	
7	725-0428	Brake Indicator Light	
8	725-0364	Wiring Harness	
9	725-0201	Ignition Key	
10	725-0267	Ignition Switch	
11	725-0453	Battery	N
12	725-0202	Headlight Switch	
13	725-0268	Safety Switch—Black with Brkt.	
14	725-0121	Electric Wire	
15	725-0122	Electric Wire	
16	12614	Battery Hold Down	N
17	711-0222	Hold Down Rods	
18	712-01113	Wing Nuts	





**TRANSAXLE PART NO. 654**

**NOTE:** This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the Local Authorized Tecumseh Service Dealer.

  
**Find Us Fast  
in The  
Yellow Pages**

**PEERLESS MODEL 654**  
 This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines-Gasoline."

**PARTS LIST FOR TRANSAXLE MODEL NO. 654**

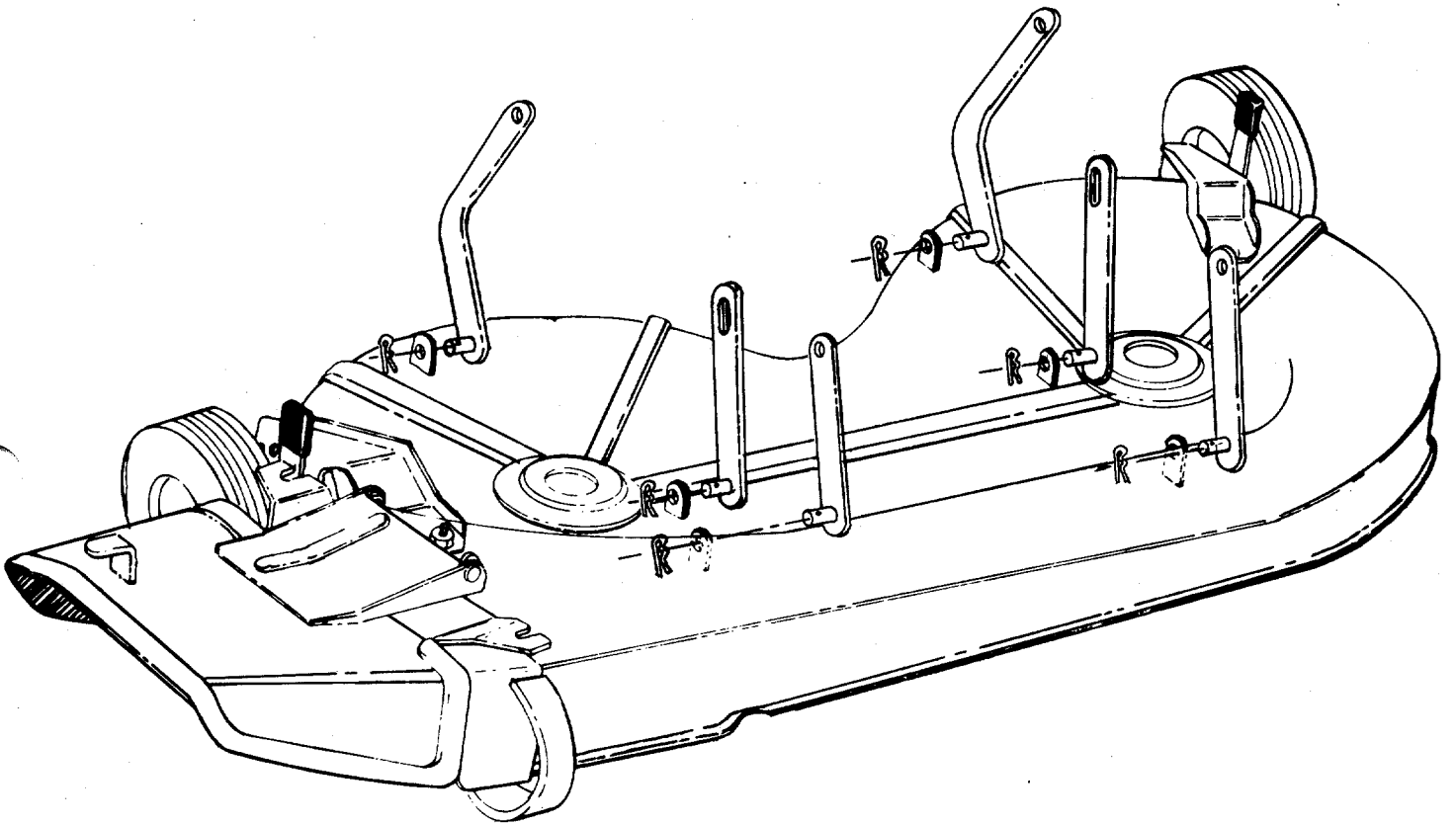
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	PE-770063	Case Ass'y. Transaxle (Incl. Nos. 2, 3 & 5)	43A	PE-530105	Bearing Needle
2	PE-780086	Bearing, Needle	43B	PE-788042	Seal, Oil
3	PE-780059	Bearing, Bronze	44	PE-778024	Gear (16 teeth)
4	PE-780060	Bearing, Bronze	45	PE-778057	Gear, Bevel (33 teeth)
5	PE-780061	Bearing, Bronze	46	PE-776138	Shaft, Shifter & Brake
6	PE-786033	Plate Ass'y., Center (Incl. Nos. 4 & 7)	47	PE-778058	Gear, Shifting (2nd & 3rd)
7	PE-780062	Bearing, Bronze	48	PE-778059	Gear, Shifting (1st & Rev.)
8	PE-772042	Cover Ass'y., Transaxle (Incl. Nos. 3 & 9)	49	PE-778060	Gear, Spur (12 teeth)
9	PE-780063	Bearing, Needle	50	PE-778061	Gear, Countershaft drive (39 teeth)
10	PE-778053	Gear Ass'y., Differential (Incl. No. 11)	51	PE-778062	Gear, Countershaft (34 teeth)
11	PE-780064	Bearing, Bronze	52	PE-778063	Gear, Countershaft (25 teeth)
12	PE-774340	Axle, Left Hand	53	PE-792034A	Key, Countershaft
13	PE-774341	Axle, Right Hand	54	PE-778064	Idler, Reverse
14	PE-778067	Gear, Bevel	55	PE-776057	Shaft, Reverse Idler
15	PE-778068	Pinion, Bevel	56	PE-786036	Spacer, Reverse Idler
16	PE-786034	Pin, Drive	57	PE-784087	Stop, Shifter
17	PE-780065	Washer, Thrust	58	PE-788033	Gasket, Case & Cover
18	PE-780001	Washer, Thrust	59	PE-788003	Gasket, Shift Lever Hsg.
19	PE-788038	Ring, Snap	60	PE-780093	Bearing, Ball
20	PE-792040	Pin, Roll	63	PE-780071	Bearing, Thrust
21	PE-786035	Sleeve Ass'y., Countershaft (Incl. No. 22)	64	PE-780072	Washer, Thrust
22	PE-780066	Bearing, Bronze	65	PE-780073	Washer, Thrust
23	PE-776090	Shaft, Idler	66	PE-792035	Ring, Snap
25	PE-784079	Rod Ass'y., Shift (1st & Rev.) (Incl. Nos. 26 thru 30)	67	PE-786026	Pin, Dowel
26	PE-784004	Fork, Shift	68	PE-788043	Seal, Oil
27	PE-784083	Rod, Shift	69	PE-788009	Seal, Oil
28	PE-792003	Spring	70	PE-788035	Seal, Oil
29	PE-792004	Ball, Steel	71	PE-792036	Scr., Socket Hd. Cap, 1/4-20 x 1 1/4
30	PE-792017	Ring, Snap	72	PE-792051	Scr., Socket Hd. Cap, 1/4-20 x 1 3/4
31	PE-784084	Rod Ass'y., Shift (2nd & 3rd) (Incl. Nos. 26, 28, 29, 30, 32)	73	PE-792037	Scr., Hex Hd., 5/16-18 x 1
32	PE-784085	Rod, Shift	74	PE-792029	Lockwasher, 5/16"
33	PE-784244	Lever & Hsg. Ass'y., Shift (Incl. Nos. 34 thru 39)	75	PE-792039	Plug, Pipe 1/8"
34	PE-784088	Housing, Shift Lever	76	PE-776155	Shaft, Input
35	PE-784094	Keeper, Shift Lever	77	PE-778077	Pinion, Input
36	PE-784245	Lever, Shift	78	PE-788040	Ring, Retaining
37	PE-792016	Ring, Snap	79	PE-790006	Pad, Brake
38	PE-792001	Ring, Quad	80	PE-790007	Plate, Brake Pad
39	PE-792049	Pin, Drive	81	PE-790005	Holder, Brake Pad
40	PE-776154	Shaft & Gear Ass'y, Input (Incl. Nos. 76, 77 & 78)	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 thr'd forming
43	PE-780091	Brg. & Seal Ass'y., Needle (See Note 1)	85A	PE-792085	Scr., Hex Hd. Cap, 1/4-20 x 2 1/4 thr'd forming
			86	PE-790009	Disc, Brake
			87	PE-792045	Key, Woodruff #61
			88	PE-786066	Spacer

NOTE 1: The no. 780091 bearing & seal can be used interchangeably with the separate #530105 bearing and the separate no. 788042 seal.

## DECK LINKAGE

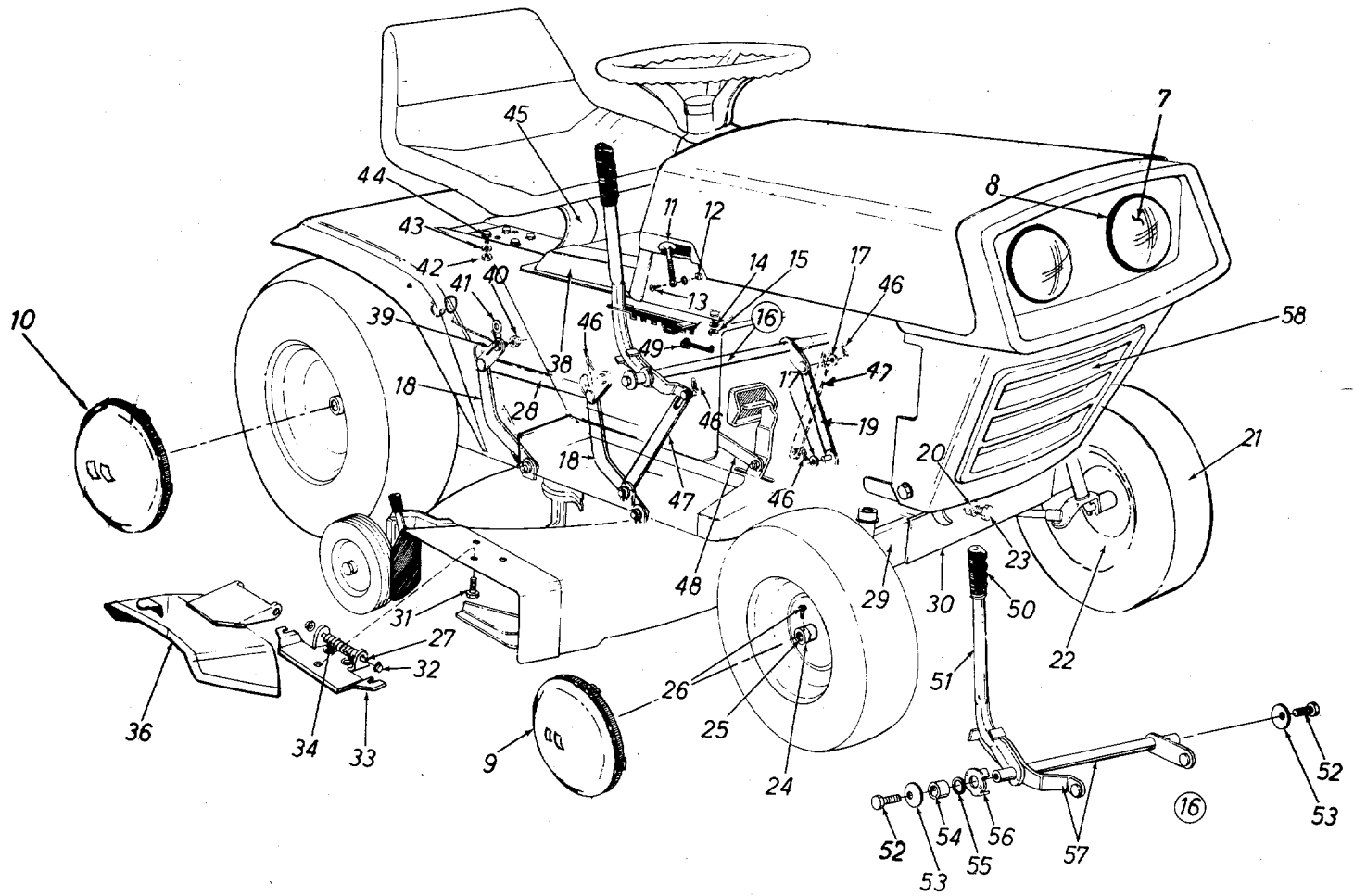
### NOTE

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.



# 135-495A 135-497A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



RIGHT HAND VIEW

PARTS LIST FOR RIGHT HAND VIEW 135-495A AND 135-497A

F. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
7	725-0222		Head Lights		31	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg.*	
8	735-0156		Head Light—Door Mounting		32	726-0106		Push-on Flange Nut	
9	734-0541		Front Wheel Hub Cap 6 inch Dia.		33	11399		Adapter Plate Assembly	
10	734-0542		Rear Wheel Hub Cap 8 inch Dia.		34	732-0261		Torsion Spring	
11	723-0296		Hood Lock Ass'y.		35	11633		Chute Cover Ass'y. Comp.	
12	712-0287		Hex Nut 1/4-20 Thd.*		36	11574		Chute Cover Ass'v.	
13	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*		38	11842		Upper Frame Cover	
14	736-0119		Spring Lockwasher 5/16" Scr.*		39	09721		Pivot Link Ass'y.	
15	712-0267		Hex Nut 5/16-18 Thd.*		40	712-0267		Hex Nut 5/16-18 Thd.*	
16	—		Lift Handle Ass'y.—See Breakdown		41	736-0264		Flat Washer .344 I.D. x .62 O.D.	
17	736-0192		Flat Washer .531 I.D. x .93 O.D.		42	712-0267		Hex Nut 5/16-18 Thd.*	
18	10349		Deck Link Assembly		43	736-0119		Spring Lockwasher 5/16" Scr.*	
19	10904		Deck Link Assembly		44	710-0198		Hex Hd. Sems Scr. 5/16-18 x .75" Lg.*	
20	712-0923		Hex Center Locknut 5/8-18 Thd		45	732-0256		Seat Spring	
21	734-0497		Front Wheel Ass'y. Comp. 15 x 6.00		46	714-0101		Internal Cotter Pin 1/2" Dia.	
	734-0498		Front Wheel Tire Only 15 x 6.00		47	10346		Deck Link Assembly	
22	734-0499		Front Wheel Rim Only		48	11056		Parking Brake—Lever Ass'y. R.H.	
23	710-0622		Hex Hd. Cap Scr. 5/8-18 x 1.62" Lg.	N	49	726-0121		Push Cap 1/4" Dia.—Black	
24	711-0169		Collar 5/8" I.D.		50	08118		Grip	
25	748-0184		Front Wheel Bearing		51	11030		Lift Handle R.H.	
26	710-0494		Sq. Hd. Set Scr. 5/16-18 x .38" Lg. Cup		52	710-0201		Hex Hd. Cap Scr. 5/8-16 x .62" Lg.*	
27	711-0577		Pivot Pin		53	736-0233		Belleville Washer .400 I.D. x 1.13 O.D.	
28	09735		Connecting Rod 3/16 x 1.00 x 12.5" Lg.		54	748-0201		Spacer .635 I.D. x .88 O.D. x .57	
29	12406		Front Pivot Bar Ass'y.	N	55	736-0233		Wave Washer .660 I.D. x .82 O.D.	
30	12411		Front Pivot Bracket	N	56	11029		Handle Pivot Bracket	
					57	11032		Lift Handle Bracket Ass'y.	
					58	731-0208		Grille Insert	
					59	12360		Dash Panel (not shown)	

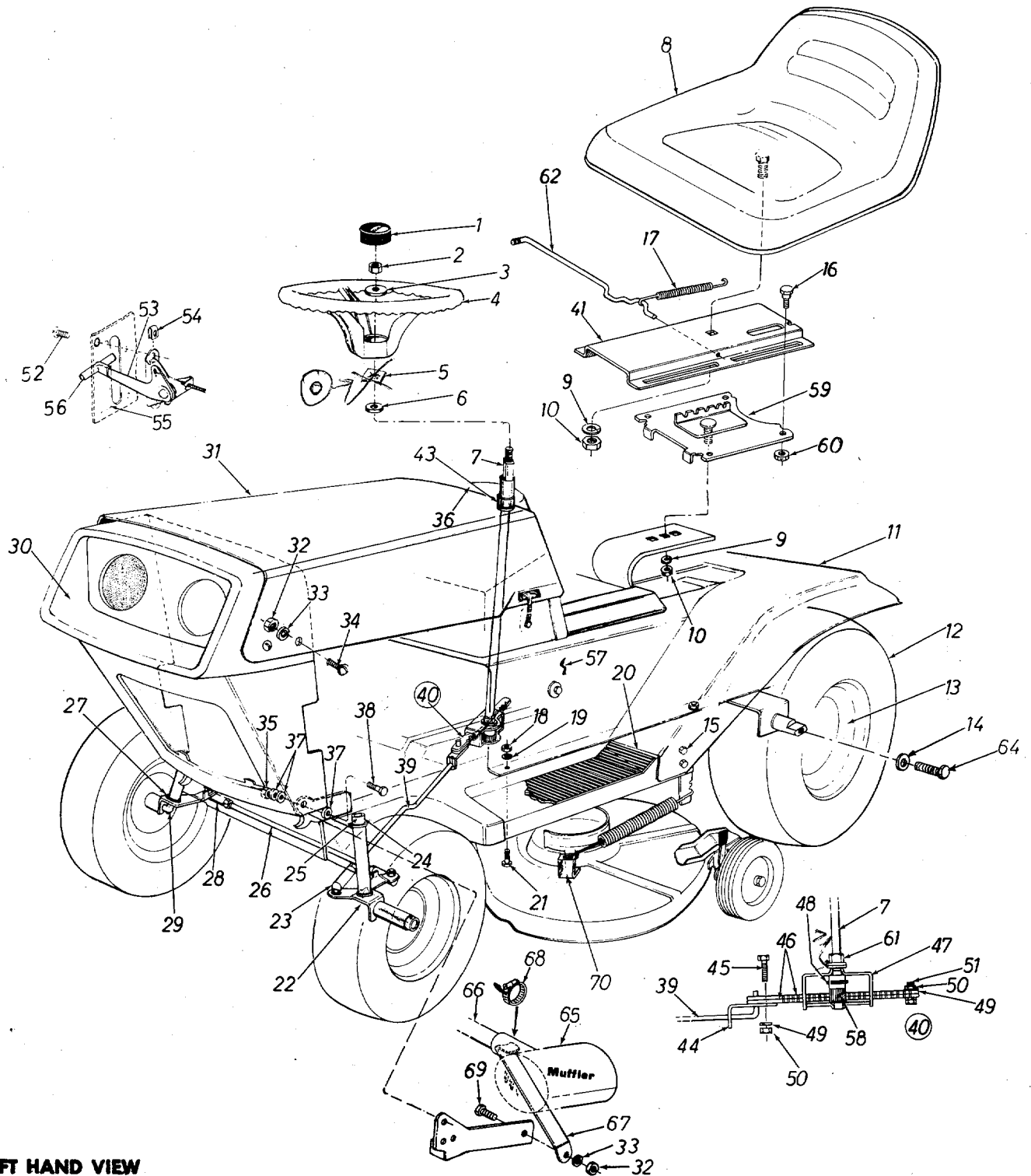
60 738-140 5 H.C.S. SCR

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

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

# 135-495A 135-497A

IF YOU WRITE TO US ABOUT THIS ARTICLE  
OR IF YOU ORDER REPLACEMENT PARTS AL-  
WAYS MENTION THIS MODEL & SERIAL NO  
MODEL



LEFT HAND VIEW

PARTS LIST FOR LEFT HAND VIEW 135-495A AND 135-497A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap		36	12360		Dash Panel and Battery Box Ass'y.	
2	712-0158		Hex Center Locknut 5/16-18 Thd.		37	736-0105		Belleville Washer	
3	736-0242		Belleville Washer 400 I.D. x 1.13 O.D.		38	710-0253		Hex Hd. Cap Scr. 3/8-16 x 1.00" Lg.*	
4	731-0219		Steering Wheel 12.0 inch		39	<del>711-0138</del>		Steering Rod	
5	<del>736-0156</del>		FL-WASH, 635 x 1.12		40			Steering Ass'y.—See Breakdown	
6	736-0174		Wave Washer .660 I.D. x .88 O.D.		41	12400		Adj. Seat Assembly—Comp.	N
7	738-0200		Steering Shaft		43	748-0227		Hex Flange Bearing .630 I.D. Bronze	
8	757-0241		Seat Assembly Comp—10.0" Black (Mtg. Bolt Molded in Seat)		44	12372		Steering Rod Bracket	
9	736-0921		Spring Lockwasher 1/2" Scr.*		45	710-0142		Hex Hd. Cap. Scr. 1/4-28 x .75" Lg.*	
10	712-0206		Hex Nut 1/2-13 Thd.*		46	11048		Steering Segment	
11	11839-462		Rear Fender		47	11074		Steering Housing Ass'y.	
12	734-0601		Rear Wheel Ass'y.—Comp. 18 x 8.50	N	48	715-0134		Spirol Pin 3/16" Dia. x 1.50" Lg.	
	734-0516		Rear Wheel Tire Only 18 x 8.50	N	49	736-0329		Spring Lockwasher 1/4" Scr.*	
13	734-0603		Rear Wheel Rim Ass'y		50	712-0138		Hex Nut 1/4-28 Thd.*	
14	736-0242		Belleville Washer		51	710-0412		Hex Hd. Cap Scr. 1/4-28 x .75" Lg.*	
15	710-0258		Hex Hd. Cap Scr. 1/4-20 x .62" Lg.*		52	710-0351		Truss Hd. Mach. B-Tapp. Scr. #10 x .50" Lg.	
16			Part of Ref. No. 41		53	746-0160		Throttle Control—Complete	
17			"		54	712-0147		Speed Nut #10-24 U-Type	
18	712-0267		Hex Nut 5/16-18 Thd.*		55	12360		Dash Panel and Battery Box Ass'y	
19	736-0119		Spring Lockwasher 5/16" Scr.*		56	722-0115		Knob—Only—Throttle Control	
20	723-0241		Foot Pad 15.75" Lg. x 4.0" Wide		57	11852		Upper Frame	
21	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		58	748-0203		12 Teeth—Spur Gear	
22	09098-462		Front Axle Ass'y.—L.H.		59			Part of Ref. No. 41	
23	723-0156		Ball Joint Ass'y. (Tie Rod End)		60			Part of Ref. No. 41	
24	711-0169		Collar 5/8" I.D.		61	748-0228		Hex Flange Bearing .505 I.D.	
25	710-0494		Sq. Hd. Set Scr. 5/16-18 x .38 Cup		62	11129		Adjustment Rod	
26	711-0613		Tie Rod 3/8-24 Threaded Both Ends		64	710-0621		Hex Wash. Hd. Tap. Scr. 5/16-18 x .75" Lg.	N
27	748-0184		Flange Bearing .630 I.D.		65	751-0177		Muffler Ass'y.	N
28	723-0156		Ball Joint Ass'y. (Tie Rod End)		66	751-0175		Muffler Tubing	N
29	09095-462		Front Axle Ass'y.—R.H.		67	751-0178		Muffler Bracket	N
30	719-0197		Front Grille		68	726-0132		Hose Clamp	
31	11836-462		Front Hood		69	710-0258		Hex Scr. 1/4-20 x .62" Lg.*	
32	712-0287		Hex Nut 1/4-20 Thd.*		70	12405		Deck Spring Brkt.	N
33	736-0329		Spring Lockwasher 1/4" Scr.*		71	736-112		FL WASH .531 x .930 OD	
34	710-0286		Truss Hd. Mach. Scr. 1/4-20 x .50" Lg.*						
35	712-0375		Hex Center Locknut 3/8-16 Thd.						

\*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 at left. (e.g. Red Flake Finish—11836 (462)).





PARTS LIST FOR DECK AND FRAME VIEW 135-495A AND 135-497A

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.*		43	736-119		Spring Lockwasher 5/16" Scr.*	
2	736-0921		Spring Lockwasher 1/2" Scr.*		44			Pedal "U" Bracket Ass'y.	
3	756-0174		Transmission Split Pulley .50" I.D.		45	736-0169		Spring Lockwasher 3/8" Scr.*	
4	754-0173		"V"-Belt 21/32 x 37" Lg.		46	712-0798		Hex Nut 3/8-16 Thd.*	
5	712-0261		Hex Jam Nut 5/8-11 Thd.		47	712-0429		Hex Inserted Locknut 5/16-18 Thd.	
6	736-0158		Spring Lockwasher 5/8" Scr.*		48	736-0119		Spring Lockwasher 5/16" Scr.*	
7	756-0124		Pulley 4.75" O.D.		49	712-0267		Hex Nut 5/16-18 Thd.*	
8	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*		50	11845		Transmission Belt Guard	
9	08253		Bearing Housing		51	712-0261		Hex Jam Nut 5/8-11 Thd.	
10	741-0919		Ball Bearing .787 I.D. x 1.85 O.D.		52	736-0158		Spring Lockwasher 5/8" Scr.*	
11	714-0365		#6 Hi-Pro Key 5/32 x 3/8" Dia.		53	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*	
12	11851		Spindle Plate		54	756-0251		Deck Pulley 4.75" O.D.	N
13	712-0267		Hex Nut 5/16-18 Thd.*		55	754-0145		"V" Belt 21/32 x 69" Lg. (Blade Drive Belt)	
14	736-0119		Spring Lockwasher 5/16" Scr.*		56	756-0116		"V" Belt Idler 3.06" O.D.	
15	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*		57	756-0217		Flat Idler 2.75" O.D. with Flanges	
16	732-0191		Spring .75" O.D. x 11.0" Lg. (Idler)		58	754-0191		"V" Belt 1/2 x 65" Lg. (Transmission)	
17	736-0119		Spring Lockwasher 5/16" Scr.*		59	756-0234		Two Step Engine Pulley	
18	712-0267		Hex Nut 5/16-18 Thd.*		60	736-0235		Flat Washer .406 I.D. x 1.25 O.D.	
19	11095		Engine Brace		61	736-0169		Spring Lockwasher 3/8" Scr.*	
20	710-0259		Hex Sems Scr. 5/16-18 x .62" Lg.*		62	710-0152		Hex Hd. Cap Scr. 3/8-24 x 1.00" Lg.*	
21	736-0119		Spring Lockwasher 5/16" Scr.*		63	11237		Wheel Bracket Assembly—L.H. (Deck)	
22	712-0267		Hex Nut 5/16-18 Thd.*		64	732-0191		Spring .75 O.D. x 11.0" Lg. (Deck)	
23	714-0507		Cotter Pin 3/32" Dia. x .75" Lg.		65	12672		Belt Guard—L.H. (Deck)	N
24	—		Engine		66	09164		Deck Reinforcement Plate	
25	710-0442		Hex Hd. Cap Scr. 5/16-18 x 1.50" Lg.*		67	12676		38 Inch Deck Assembly	N
26	11057		Parking Brake Lever Ass'y.—L.H.		68	710-0322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
27	10614		Pedal Pad Vinyl		69	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*	
28	11037		Clutch Pedal Ass'y.		70	712-0123		Hex Nut 5/16-24 Thd.*	
29	747-0112		Clutch Rod		71	736-0119		Spring Lockwasher 5/16" Scr.*	
30	12448		Idler Bracket Ass'y.	N	72	742-0122		19 Inch Blade	
31	11036		Brake Pedal Bracket Ass'y.		73	710-0117		Hex Hd. Cap Scr. 5/16-24 x 1.00" Lg. Heat Treated	
32	732-0245		Brake Spring		74	710-0459		Hex Hd. Cap Scr. 3/8-24 x 1.50" Lg. Heat Treated	
33	726-0100		Push Nut 3/8" Rod		75	736-0217		Spring Lockwasher 3/8" Scr. Heavy Duty	
34	710-0198		Hex Sems Scr. 5/16-18 x .75" Lg.*		76	10769		Blade Adapter Kit	
35	738-0213		Shoulder Scr. .498" Dia. x 1.450" Lg.		77	710-0289		Hex Hd. Cap Scr. 1/4-20 x .50" Lg.*	
36	12654		Engine Belt Guard Assembly	N	78	711-0571		Pivot Pin	
37	11090		Frame Assembly		79	11399		Adapter Plate Ass'y.	
38	712-0267		Hex Nut 5/16-18 Thd.*		80	732-0261		Torsion Spring	
39	736-0105		Belleville Washer 3/8" Scr.		81	710-0195		Hex Hd. Cap Scr. 1/4-28 x .62" Lg.*	
40	738-0215		Shoulder Scr. .498" Dia. x 3.00" Lg.*	N					
41	12160		Belt Keeper Ass'y.	N					
42	712-0267		Hex Nut 5/16-18 Thd.*						

**PARTS LIST (CONTINUED) FOR DECK AND FRAME VIEW 135-495A AND 135-497A**

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NE PA
82	11574		Chute Cover Assembly		115	747-0110		Brake Rod .25 Dia. x 22.75" Lg.	
83	726-0106		Push Nut—1/4" Rod		116	738-0177		Spindle for Transaxle	
84	738-0119		Shoulder Scr. .625" Dia. x 1.75" Lg.		117	722-0115		Ball Knob—Black 1 3/8 Dia. x 3/8-16 Thd.	
85	734-0295		Wheel Ass'y.—5.0 x 1.25 Dia. (Deck)		118	738-0140		Shoulder Scr. .437 Dia. x .180	
86	712-0116		Hex Inserted Locknut 3/8-24 Thd.		119	736-0242		Belleville Washer .345 I.D. x .88 O.D.	
87	736-0105		Belleville Washer		120	717-0262		Shift Lever	
88	736-0105		Belleville Washer		121	12405		Deck Spring Bracket	N
89	10937		Wheel Pivot Bar						
90	10949		Spring Lever Ass'y. with Knob		123	736-0119		Spring Lockwasher 5/16" Scr.*	
91	736-0329		Spring Lockwasher 1/4" Scr.*		124	710-0573		Hex Lock Scr. 5/16-18 x 1.25" Lg.	N
92	712-0287		Hex Nut 1/4-20 Thd.*						
93	11236		Wheel Bracket Ass'y.—R.H. (Deck)		125	712-0429		Hex Inserted Locknut 5/16-18 Thd.	
94	736-0329		Spring Lockwasher 1/4" Scr.*		126	11848		Transaxle U-Bracket—R.H.	
95	712-0287		Hex Nut 1/4-20 Thd.*	N	127	732-0157		Spring .38 O.D. x 3.25" Lg.	
96	12673		Belt Guard—R.H. (Deck)		128	710-0437		Chain Adj. Link 5/16-18 x 4.38" Lg.	
97	711-0255		Blade Spindle						
98	736-0329		Spring Lockwasher 1/4" Scr.*		129	712-0429		Hex Inserted Locknut 5/16-18 Thd.	
99	712-0287		Hex Nut 1/4-20 Thd.*						
100	09322		Blade Brake Disc		130	10360		Axle Bolt Plate Ass'y.	
101	712-0239		Hex Nut 1/2-20 Thd.		131	—		Transaxle—3 Speed	
102	736-0921		Spring Lockwasher 1/2" Scr.*		132	11849		Transaxle U-Bracket—L.H.	
103	712-0287		Hex Nut 1/4-20 Thd.*		133	11850		Transaxle Support Bracket	
104	736-0329		Spring Lockwasher 1/4" Scr.*		134	741-0163		Bearing—Housing Ass'y. (Includes Bearing)	
105	714-0129		#4 Hi-Pro Key 3/32 x 5/8 Dia.						
106	712-0287		Hex Nut 1/4-20 Thd.*		140	12362		38 inch Deck Ass'y.—Comp.	
107	736-0329		Spring Lockwasher 1/4" Scr.*		141	11633		Chute Cover Ass'y.—Comp. (Includes Ref No's. 78, 79, 80, 81, 82 & 83)	
108	750-0142		Spacer .836 I.D. x 1.01 O.D.						
109	761-0148		Blade Brake Ass'y. .88" High	N					
110	710-0134		Carriage Bolt 1/4-20 x .62" Lg.*		142	09321		Spindle Ass'y. Comp. (Deck)	
111	11059		Parking Brake Lever Ass'y.—R.H.		143	09963		Hitch Bracket (Not Shown)	
112	10410		Spring Bracket		144	731-0144		Vinyl Black Strip for Dash 12.0" Lg. (Not Shown)	
113	736-329		Spring Lockwasher 1/4" Scr.*		145	712-0116		Hex Inserted Locknut 3/8-24 Thd.	
114	712-287		Hex Nut 1/4-20 Thd.*						

135  
136 11857  
137 751-124  
138 736-329  
139 710-287  
10 TONE ADAPTER  
MUFF. BRKT  
MUFF EXTASY  
L WASH 1/2 SR

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

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

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."



### BATTERY WARRANTY CERTIFICATE

The following general warranty policy applies to all batteries sold by IBMA members using this warranty. The nationwide warranty applies only to batteries bearing the IBMA seal of approval.

All new batteries sold by IBMA members carry a warranty against faulty material or workmanship for 90 days from date of purchase. A faulty battery is to be adjusted, repaired or replaced with a new battery by an IBMA member, jobber or dealer only, or the warranty becomes void. An IBMA type battery that is faulty within the 90 day period is to be repaired or replaced with a new battery F.O.B. any IBMA factory supplier or any IBMA authorized dealer, without charge.

Your battery carries a further warranty on a pro-rata adjustment basis covering the number of months determined by the class of service and type of battery. In determining the exchange cost of a new battery, charges will be made for months of service used and the warranty is valid to the original purchaser only.

IBMA approved factory suppliers, as well as all IBMA authorized dealers, are to honor this Warranty. If your IBMA approved battery carries the IBMA seal of approval, this Warranty is to be honored by dealers handling IBMA approved batteries everywhere. (Independent Battery Manufacturers Association, Inc.)

Failures in service that are caused by fire, collision, freezing, abuse, faulty electrical equipment or the use of a battery of a group size smaller or specifications lower than the original battery are not covered by this policy.

### BATTERY MANUFACTURER MEMBERSHIP LIST

<b>ALABAMA</b> Birmingham Southern Bty. Yocam Batteries Mobile Yocam Batteries Montgomery Ebco Battery	Express Bty. Div. Leeth Brothers <b>FLORIDA</b> Fort Lauderdale Florida Bty. Hialeah East Penn Mfg. Jacksonville Tropex Batteries Yocam Batteries Miami Tropex Batteries Yocam Batteries Orlando Yocam Batteries Pensacola Yocam Batteries St. Petersburg Electro Battery Co. Tampa Bilt-Rite Bty. Mfg. Contract Bty. Mfg. DeSoto Bty. & Elec. Tropex Batteries Yocam Batteries	Contract Bty. Mfg. Yocam Batteries <b>ILLINOIS</b> Belleville Bell City Bty. Mfg. Chicago Illinois Bty. Mfg. Universal Bty. Volta Bty. Corp. Peoria Red Diamond Bty. <b>INDIANA</b> Muncie Stout Storage Bty. <b>IOWA</b> Corydon Voltmaster Council Bluffs Reliance Bty. Prod. Des Moines Voltmaster	Shreveport Central Bty. <b>MARYLAND</b> Baltimore East Penn Mfg. <b>MASSACHUSETTS</b> Watertown Atlantic Bty. <b>MICHIGAN</b> Detroit Batteries Mfg. Flint ABC Batteries Holly Detroit Battery Madison Heights C & W Lektra Warren G & M Battery	Maryland Heights Electro Bty. Mfg. Sikeston Electro Bty. <b>NEW JERSEY</b> Atlantic City Landis Battery <b>NEW MEXICO</b> Albuquerque Sandia Bty. Mfg. <b>NEW YORK</b> Buffalo East Penn Mfg. Lockport Great Lakes Battery	<b>OREGON</b> Beaverton Western Bty., Inc. Portland Laheer Bty. Prod. <b>PENNSYLVANIA</b> Altoona East Penn Mfg. Erie New Castle Bty. Lancaster Lancaster Bty. Lyon Station East Penn Mfg. New Castle New Castle Bty. Philadelphia East Penn Mfg. Pittsburgh Simon Bty. & Res. Geidel Bty. Div.	Memphis Central Battery Laheer Bty. Prod. Southern Bty. Nashville Electro-Lite Bty. Southern Bty. <b>TEXAS</b> Dallas Continental Bty. Reliable Battery El Paso El Paso Bty. Houston Texford Bty. Co. Reliable Battery San Antonio Reliable Battery <b>UTAH</b> Salt Lake City Laheer Bty. Prod. <b>VIRGINIA</b> Arlington Express Bty. Div. Leeth Bros. Lynchburg Hydrate Battery <b>WASHINGTON</b> Seattle Laheer Bty. Prod. Spokane Laheer Bty. Prod. <b>CANADA</b> Vancouver, B. C. Industrial Bty. & Supply
<b>CALIFORNIA</b> Los Angeles Estee Battery Laheer Bty. Prod. Oakland Laheer Bty. Prod. Sacramento Laheer Bty. Prod. San Francisco Amp King Bty. Laheer Bty. Prod. Pico Bty. Mfg. Stockton Stockton Battery	<b>GEORGIA</b> Albany Ebco Battery Atlanta Ebco Battery Southern Bty. Yocam Batteries Columbus Ebco Battery	<b>KANSAS</b> Kansas City American Batteries Contract Bty. Mfg. <b>KENTUCKY</b> Whitesburg Electro-Lite Bty. <b>LOUISIANA</b> New Orleans Central Bty. Reliable Bty.	<b>MINNESOTA</b> St. Paul Standard Storage Bty. <b>MISSISSIPPI</b> Florence Contract Bty. Mfg. Jackson Central Bty. New Albany Laheer Bty. Prod. <b>MISSOURI</b> Joplin Lead Products	<b>NORTH CAROLINA</b> Charlotte Yocam Batteries Thomasville East Penn Mfg. <b>OHIO</b> Akron Crown Battery Cincinnati Moore Battery Cleveland Crown Battery New Castle Bty. Columbus Crown Battery Fremont Crown Battery	<b>RHODE ISLAND</b> Providence Pilot Mfg., Inc. <b>SOUTH CAROLINA</b> Columbia Yocam Batteries <b>TENNESSEE</b> Chattanooga Electro-Lite Bty. Knoxville Southern Bty.	

# PARTS INFORMATION

**DEFECTIVE OR MISSING PARTS** must be reported to the factory immediately. Such claims must include your model number and date of purchase.

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

**A 1 Engine & Mower Co.**  
327 East 9th Street  
Salt Lake City, Utah 84102

**Auto Electric & Carburetor Co.**  
2525 4th Avenue, S.  
P. O. Box 1948  
Birmingham, Alabama 35233

**Automotive Equipment Service Co.**  
3117 Holmes Street  
Kansas City, Missouri 64109

**Bailey's Rebuild Inc.**  
1325 E. Madison Street  
Seattle Washington 98102

**Bleckie, Inc.**  
7900 Lorain Avenue  
Cleveland, Ohio 44102

**Brown Equipment Distributor Inc.**  
110 Beech Street  
Corydon, Indiana 47112

**Bullard Supply**  
2409 Commerce Street  
Houston, Texas 77003

**Catto & Putty, Inc.**  
P. O. Box 2408  
510 Soledad Street  
San Antonio, Texas 78205

**Center Supply Company**  
6867 New Hampshire Avenue  
Takoma Park, Maryland 20012

**Dixie Sales Company**  
P. O. Box 1408  
327 Battleground Avenue  
Greensboro, North Carolina 27402

**East Point Cycle & Key Shop**  
1617 Whiteway  
East Point, Georgia 30044

**Gamble Distributors**  
West End Avenue  
Carthage, New York 13619

**Garden Equipment Co., Inc.**  
6600 Cherry Avenue  
Long Beach, California 90805

**Gardenville Supply, Inc.**  
Pipersville, Pennsylvania 18947

**Henry W. O'Neil & Assoc., Inc.**  
410 North Goodman Street  
Rochester, New York 14609

**Henzler, Inc.**  
2015 Lemay Ferry Road  
St. Louis, Missouri 63125

**Kenton Supply**  
8216 North Denver Avenue  
Portland, Oregon 97217

**Kimber's Inc.**  
115 W. Geddes St.  
Syracuse, New York 13204

**Marr Brothers**  
423 E. Jefferson  
Dallas, Texas 75203

**McClure Lawn & Garden Supply**  
1114 Lexington Avenue  
Mansfield, Ohio 44907

**Memphis Cycle & Supply Co.**  
421 Monroe Avenue  
Memphis Tennessee 38103

**Morton B. Collins Co.**  
300 Birnie Avenue  
Springfield, Massachusetts 01107

**Mox-All of Florida, Inc.**  
365 Greco Avenue  
Coral Gables, Florida 33146

**National Central**  
687 Seville Rd.  
Wadsworth, Ohio 44281

## BRIGGS & 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 — Power Products.

**Parts & Sales Inc.**  
2101 Industrial Pkwy.  
Elkhart, Indiana 46514

**Power Equipment Distributor**  
36463 So. Gratiot Avenue  
Mt. Clemens, Michigan 48043

**Power Lawn & Garden Equip. Co.**  
2551-2571 J. F. Kennedy Road  
Dubuque, Iowa 52001

**Radco Distributors**  
2403 Market Street  
P. O. Box 3216  
Jacksonville, Florida 32206

**Raub Supply Company**  
James & Mulberry Sts.  
Lancaster, Pennsylvania 17604

**Richmond Battery & Ignition**  
P. O. Box 25369 — 957 Myers St.  
Richmond, Virginia 23260

**R. P. W., Inc.**  
623 S. 16th Street  
Omaha, Nebraska 68102

**Smith Hardware Company**  
515 N. George Street  
Goldsboro, North Carolina 27530

**South Denver Lawn Equip. Co.**  
527 West Evans  
Denver, Colorado 80223

**Suhren Engine**  
8330 Earhart Blvd.  
New Orleans, Louisiana 70118

**Sutton's Lawn Mower Shop**  
Route 4, Box 343  
North Little Rock, Arkansas 72117

**Woodson Sales & Service**  
1702 North Sylvania  
Ft. Worth, Texas 76111

## 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; 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.