Owner's Operating Service Instruction Manual

10¢

- ASSEMBLY
- OPERATION
- REPAIR PARTS

Model Nos.
144-660A
144-672A
144-760A
144-761A

8 & 10 H.P. COMPACT TRACTORS

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.

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111

PRINTED IN U.S.A.

FORM NO. 770-4871

IMPORTANT

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 (motor).
6. Disengage power to attachment(s) and stop engine (motor) before leaving operator position.
7. Disengage power to attachment(s) and stop engine (motor) 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 (motor) 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 (motor) is running if operator must dismount to do so.
    (3) Shut engine (motor) 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.

INDEX

ASSEMBLY

GRASS CATCHER Model No. 194-015A is available as optional equipment for the mowers shown in this manual.

WARNING

The mower shall 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.

Use factory replacement bag Number 764-122.

ASSEMBLY

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

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 not exceed 15 P.S.I. Equal tire pressure should be maintained.

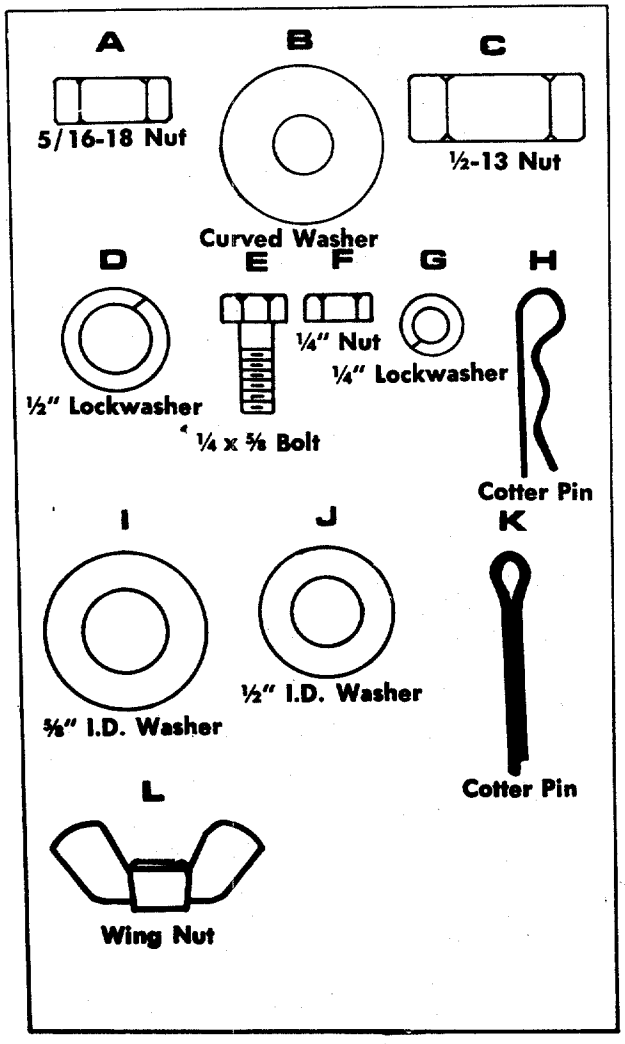


FIGURE 1. HARDWARE SUPPLIED

TOOLS NEEDED
½" Open End or Box Wrench ¾" Open End or Box Wrench (2) 7/16" Open End Wrench Pliers

FIGURE 2.

ASSEMBLY

The steering wheel, seat, battery and cutting deck (8HP), with the necessary hardware are easily assembled to the machine.

NOTE

Reference to right hand side of machine is from the normal operating position facing forward.

Step 1. Remove the tractor 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 the steering wheel over the tapered end of the steering column. Press it down until the threaded end sticks through the steering wheel. See figure 2.

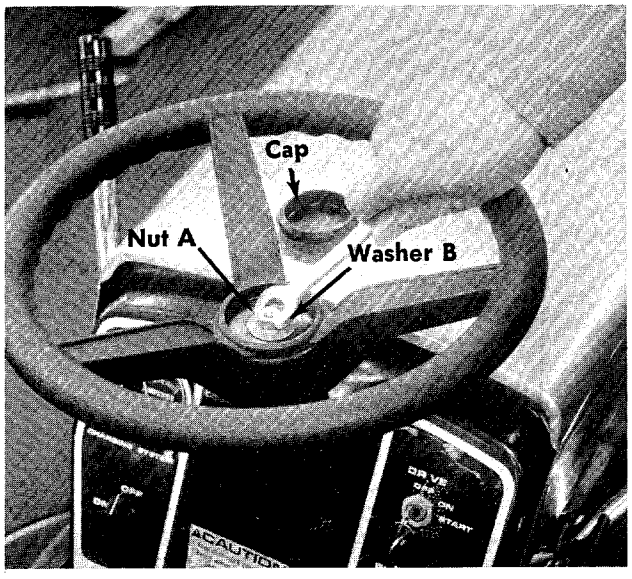
NOTE

Line up the two flat sides of the steering wheel hole and the two flat sides of the steering column.

Step 3. Place the washer "B" over the steering column, then the nut "A".

Step 4. Tighten the nut with a ½" wrench.

Step 5. Press the cap on the steering wheel by hand



Step 6. Place rubber pad "N" over one of the mounting holes in the seat spring. See figure 4.

Step 7. Place the bolt on the seat through the rubber pad and the seat spring.

Step 8. Assemble the rubber washer "M" and flat washer "D" over the seat bolt and secure with nut "C".

Step 9. Activate the battery.

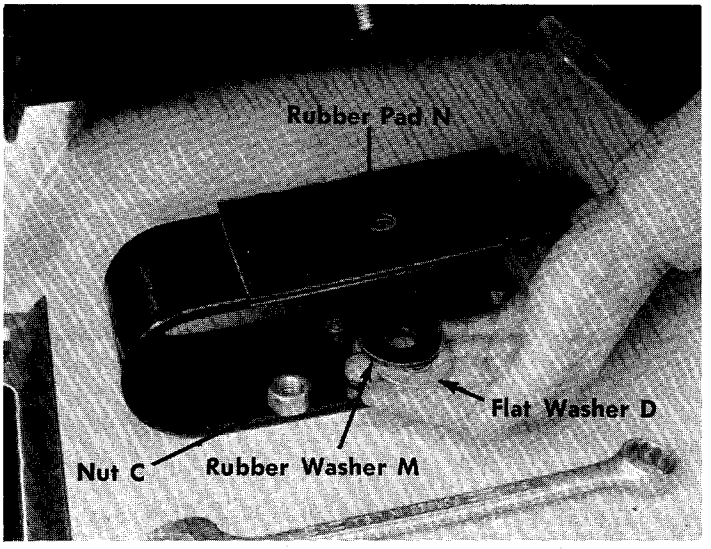


FIGURE 4. SEAT ASSEMBLY

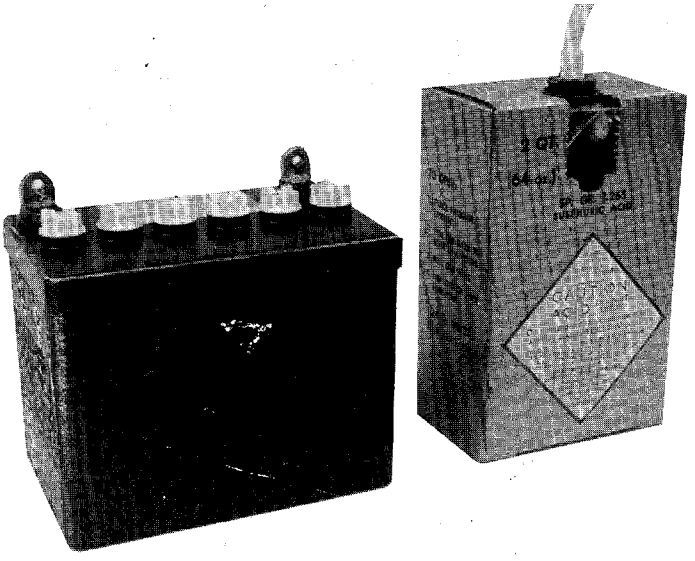


FIGURE 5. BATTERY

CAUTION

Always add electrolyte to battery before battery is installed in vehicle.

A. Remove vent plugs.

B. Place package upright; pull tab back to edge of carton, pull out hose; snip off end of hose. Fill each cell until electrolyte level rises to split ring at bottom of vent well.

DO NOT OVERFILL

C. After filling cells, wait five to ten minutes and add additional electrolyte if necessary to ring electrolyte to proper level.

D. Replace vent caps.

E. Charge battery for 10 to 15 minutes at 25-30 amps. or for 30 minutes at 4-6 amps.

WARNING

Electrolyte is a mixture of sulphuric acid and water. Avoid contact with skin, eyes, and clothing. If electrolyte is spilled flush area with clear water and neutralize with solution of water and baking soda or water and ammonia.

Step 10. Install the battery.

a. Open the hood.

b. Place the battery in the battery case with the terminals to the rear. See figure 6.

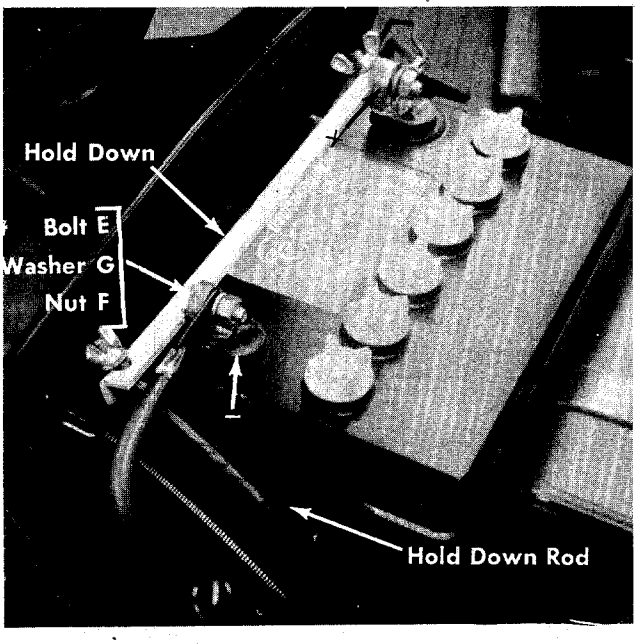


FIGURE 6. INSTALLING THE BATTERY

c. Hook the hold down rods in the holes in front of the battery case.

d. Place the hold down over the rods and hand tighten the wing nuts "L".

e. Attach the free end of the positive + cable to the positive terminal + of the battery with bolt "E", washer "G" and nut "F".

f. Attach the free end of the negative − cable to the negative terminal − of the battery with bolt "E", washer "G" and nut "F".

NOTE

If you remove the battery from the tractor, always remove the negative cable first.

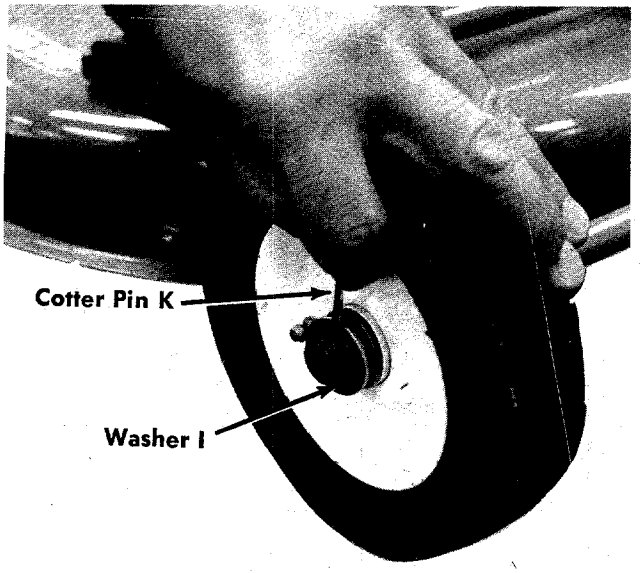


FIGURE 7. DECK WHEEL ASSEMBLY

Step 11. Place the deck wheel over the deck axle and secure it with washer "I" and cotter pin "K". See figure 7.

Step 12. Attaching the cutting deck.

a. Place either blocks of wood or bricks under the rear wheels so the cutting deck can slide under the tractor.

b. There are six link arms (4 long, 2 short) on the cutting deck. Swing all six arms into the forward position.

c. From the front of the rider, grasp both front links and hook them in the pins in frame and secure with cotter pins "H". See figure 8.

d. Place the two center links through the hole in the foot rest and attach the short slotted link to the pin in the lift arm and attach the long link to the pin in the frame. See figure 9.

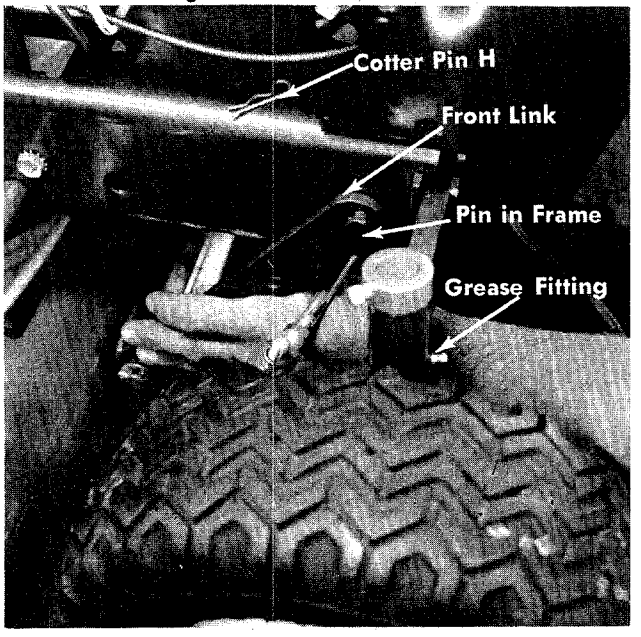


FIGURE 8. FRONT LINK ASSEMBLY

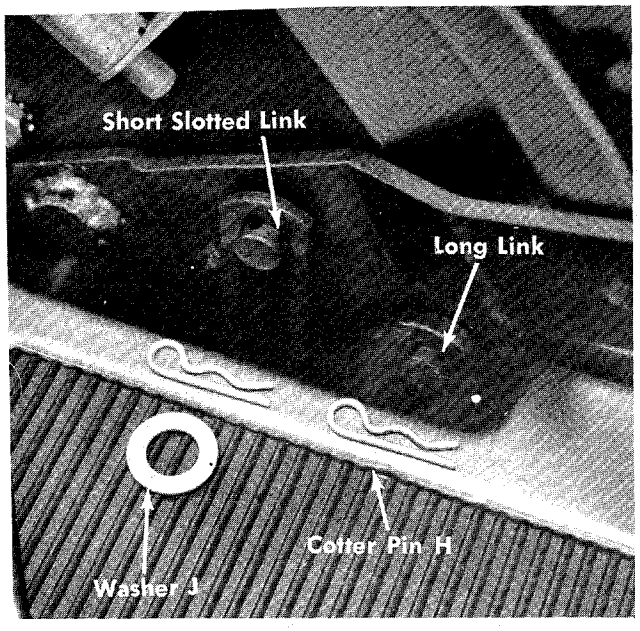


FIGURE 9. CENTER LINK ASSEMBLY

e. Place washer "J" over the short slotted link and secure both links with cotter pins "H". See figure 9.

f. Pull the belt through the slot in the frame of the tractor.

g. Remove the top bolt on the belt guard. See figure 10.

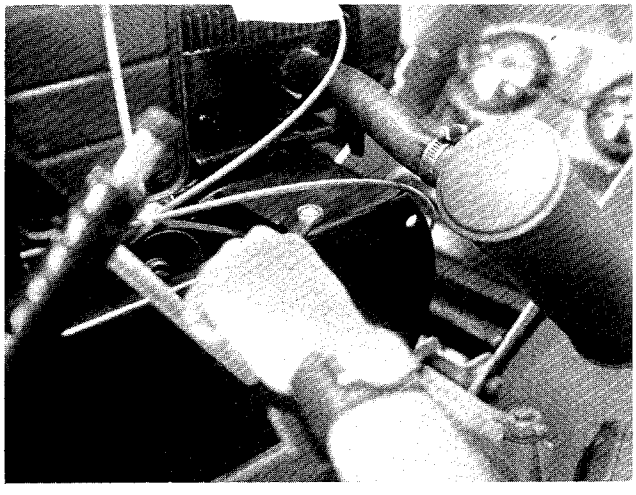


FIGURE 10. MUFFLER REMOVAL

h. Unplug the safety switch. See figure 11.

i. Remove the two bottom bolts on the belt guard. Lift off the belt guard. See figure 11.

j. Attach the deck belt to the engine pulley. See figure 12.

NOTE

Be sure the bottom part of the belt goes through the two brackets.

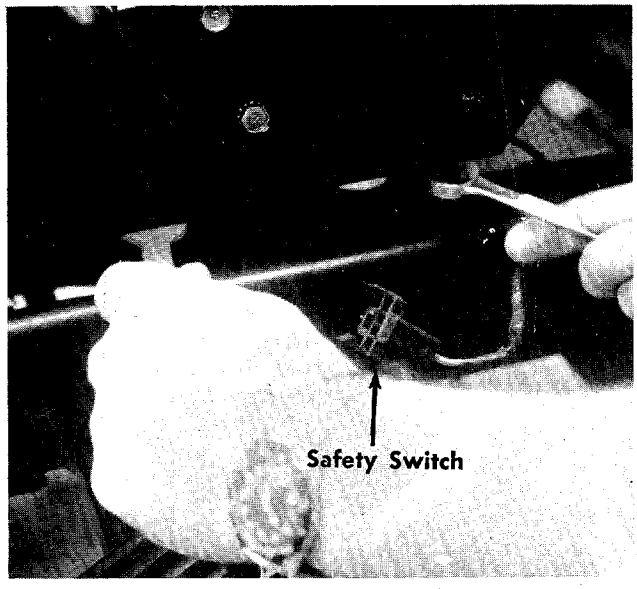


FIGURE 11. BELT GUARD REMOVAL

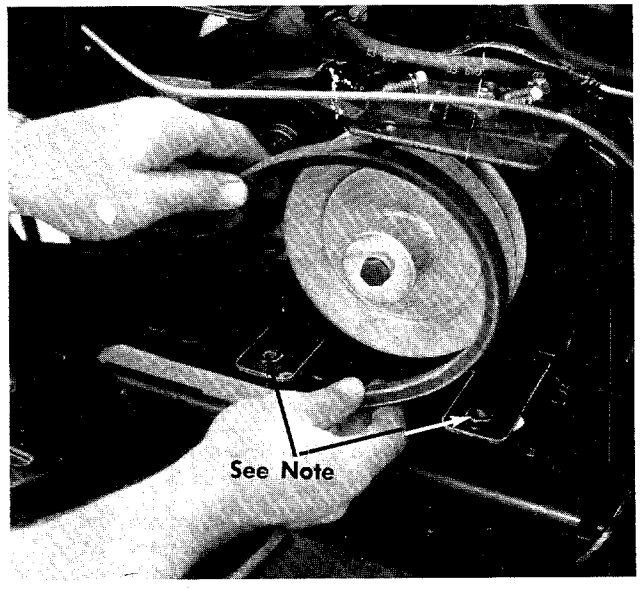


FIGURE 12. ATTACHING THE DECK BELT

k. Remove the idler belt guard. See figure

l. Reassemble the belt guard to the tractor.

m. Move the PTO lever to the ON position and reassemble the idler belt guard. See figure 14.

FIGURE 13. IDLER BELT GUARD

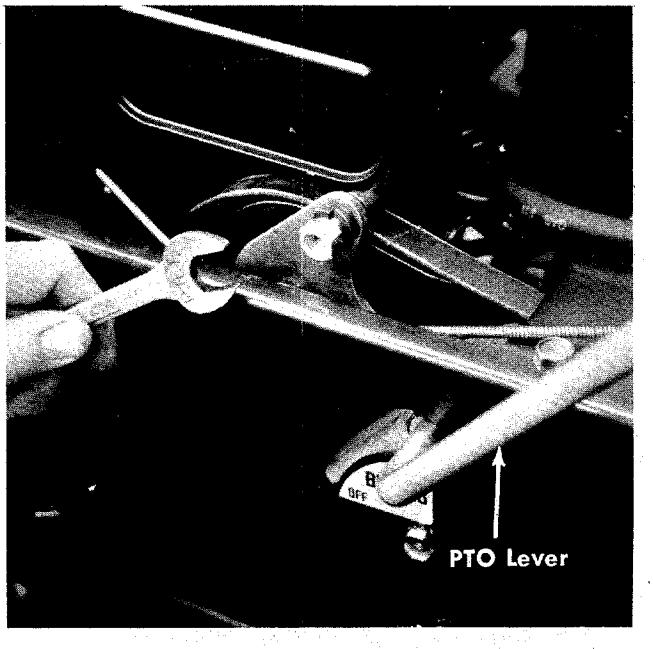


FIGURE 14. IDLER BELT GUARD

CONTROLS AND PRELIMINARY CHECKS

CONTROLS

The controls on your tractor may be considered as the following:

a. Throttle Control. The throttle control is used to regulate the engine speed and choke the engine. The engine should be operated from ¾ to full throttle when operating the cutting deck or snow thrower. (Optional)

b. Gear Shift Lever. Use the following guide for gear selection.

1st Gear:
- Heavy grass cutting
- Snow Blade
- Snow Thrower
- Pulling heavy loads

2nd Gear:
- Normal grass cutting
- Light snow throwing
- Pulling light loads

3rd Gear:
- Light grass cutting
- Road Gear

Reverse:
- Used to back up

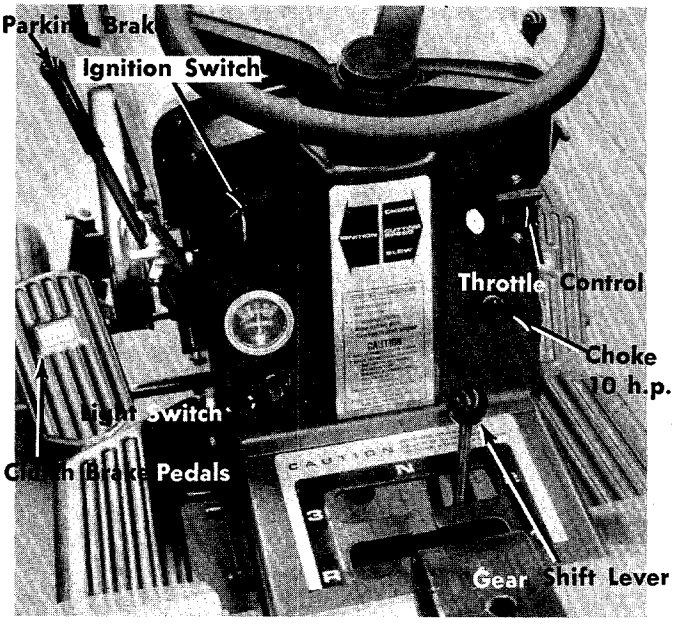


FIGURE 15. CONTROLS

c. Parking Brake. To set the parking brake, pull the parking brake lever back and hold it in the locked position while moving the locking arm to the left. See figure 16.

d. Choke Control (10 hp only). Pull out choke when starting the engine. After the engine starts, push in the choke.

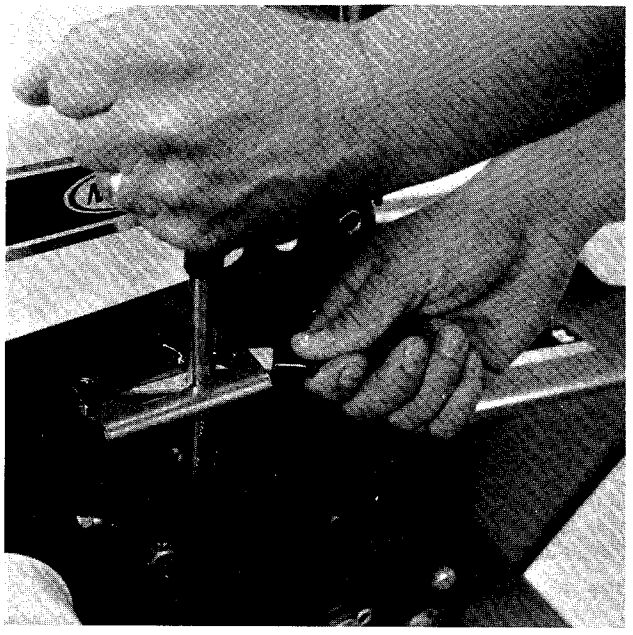


FIGURE 16. PARKING BRAKE

e. **Clutch-Brake Pedals.** Depress both of them all the way down to stop or shift gears. Release pedals slowly to engage. See figures 15. and 17.

NOTE

The pedals must be depressed in order to start the engine.

CAUTION

Do not shift while in motion.

f. **PTO Lever.** The PTO lever engages the deck belt when it is moved forward. Moving it to the rear disengages the deck belt. The engine will not start unless the PTO is in the OFF position as shown in figure 18.

g. **Lift Lever.** Depress the thumb button and pull back on the lift lever to raise the attachments. See figure 17.

h. **Ignition Switch.** Turn the switch all the way to the right to engage the starter. As soon as the engine starts, release the ignition key so that the starter is switched off. Turn the key to the left to shut off the engine.

NOTE

The clutch-brake pedal must be depressed and the PTO lever must be in the OFF position before the starter will operate.

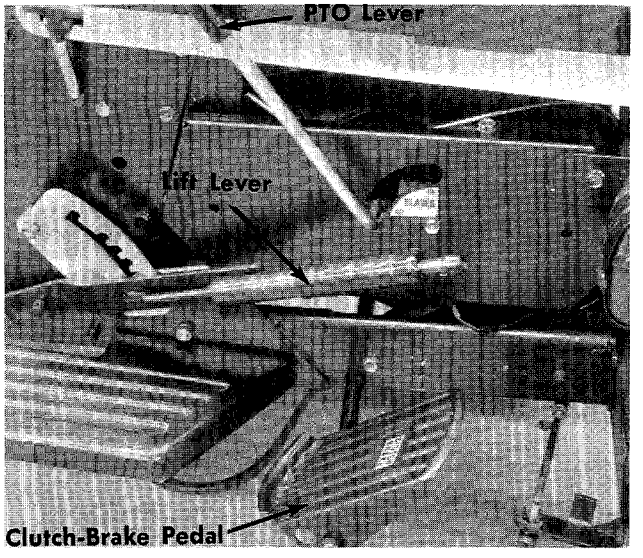


FIGURE 17. CONTROLS

i. **Light Switch.** Pull the light switch out to turn on the lights.

j. **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.

k. **Cutting Height 34" Cut Deck.** Set the cutting height by setting both wheel height adjusters in the desired position and moving the lift lever all the way forward. See figure 18.

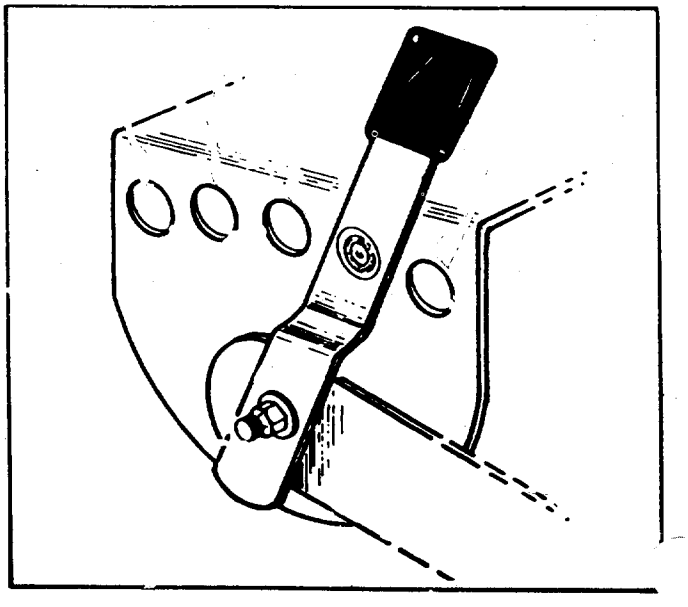


FIGURE 18. WHEEL HEIGHT ADJUSTER 34" DECK

NOTE

When cutting over rough terrain, set the cutting height with the lift lever and set the wheel height adjusters so they just clear the ground.

42" Cut Deck. The cutting height is adjustable by moving the height adjustment lever by the right deck wheel. Both deck wheels raise and lower together.

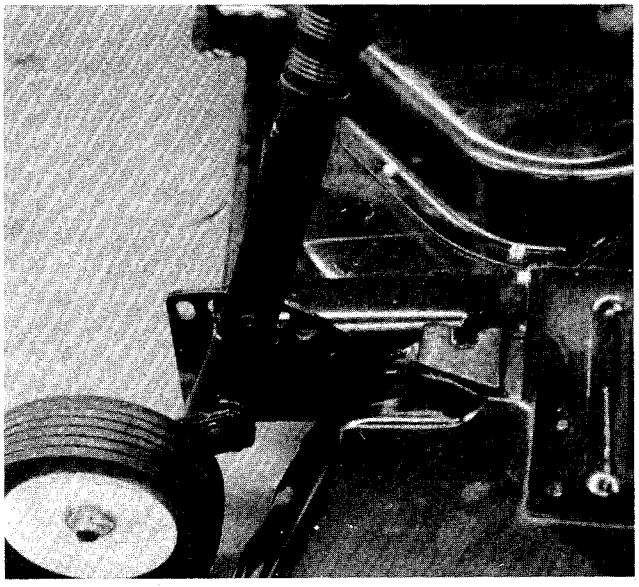


FIGURE 19. WHEEL HEIGHT ADJUSTER—42" DECK

CHECKING OIL AND GASOLINE

NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. DO NOT mix oil with gasoline.

8 h.p. Briggs & Stratton. Use a high quality detergent oil classified "For Service SC or SD or MS". Nothing should be added to the recommended oil.

Summer. (Above 40° F.) Use SAE 30. If not available use SAE 10W-30 or SAE 10W-40.

Winter. (Under 40° F.) Use SAE 5W-20 or SAE 5W-30. If not available, use SAE 10W or SAE 10W-30. Below 0° F., use SAE 10W or SAE 10W-30 diluted 10% with kerosene.

Place the engine level. Fill the oil sump to the FULL mark on the dipstick. Pour slowly. The capacity is approximately 2¾ pints.

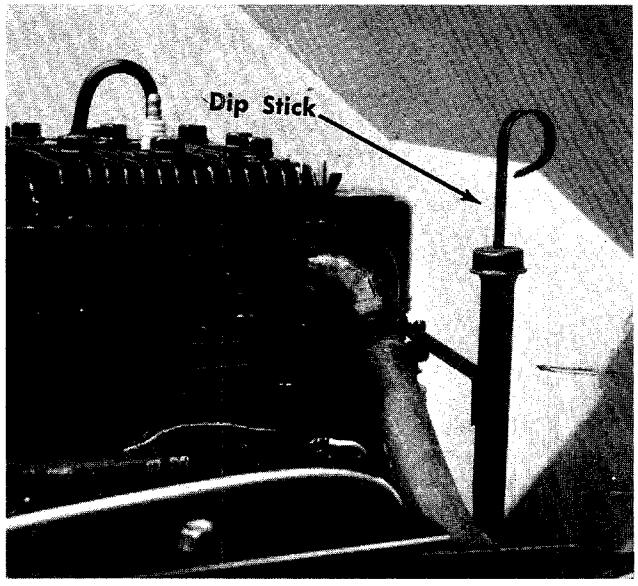


FIGURE 20. BRIGGS & STRATTON DIPSTICK

10 h.p. Tecumseh. Use a good oil of A.P.I. classification MS. Do not use oils marked only MM or ML or unmarked.

Above 32° use SAE 30.
Below 32° use SAE 10W.

Place the engine level. Fill the oil sump to the FULL mark on the dipstick. Pour slowly. The capacity is approximately 40 ounces. See figure 21.

Gasoline. Remove the gas cap and fill the tank with FRESH REGULAR GASOLINE. Do not use gasoline that has been stored for any length of time.

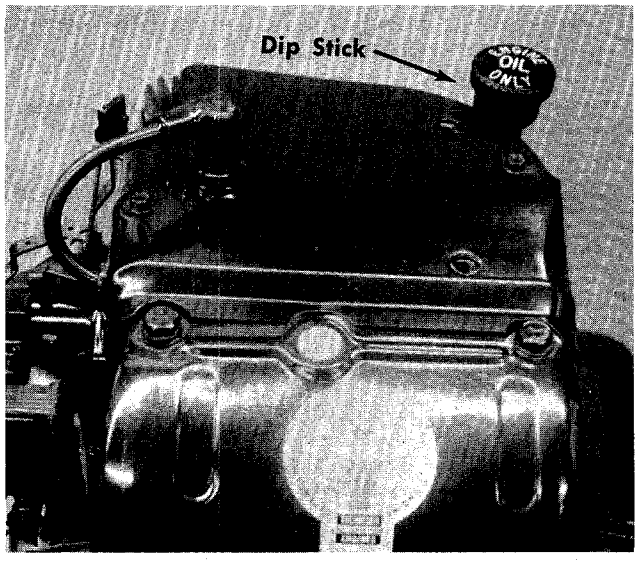


FIGURE 21. TECUMSEH DIPSTICK

OPERATING INSTRUCTIONS

WARNING

The mower shall not be operated without the entire grass catcher (optional) or chute deflector in place.

NOTE

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

Use factory replacement bag number 764-122.

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

STARTING THE ENGINE

Refer to page for information regarding oil and gasoline requirements, check that spark plug wire is connected, then proceed as follows:

Step 1. Be sure the fuel shut-off valve is open. See figure

Step 2. With the machine set on level ground place the gear shift lever in NEUTRAL (N) position. See figure 15.

Step 3. Place the PTO lever in the OFF position as shown in figure 17.

Step 4. Depress the clutch brake pedals all the way down. See figures 15 and 17.

Step 5. Set the throttle control in the CHOKE position.

Step 6. Turn the ignition key to the right to START position to start the engine. Allow the key to return to the ON position. See figure 15.

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.

Step 7. Set the desired cutting height. See figures 18 and 19.

Step 8. Lower the cutting deck with the lift lever. See figure 17.

Step 9. Slowly engage the PTO lever. See figure 17.

STOPPING THE ENGINE

To stop the engine, turn the ignition key to the left to the OFF position. Do not leave the key in the ignition switch.

WARNING

Whenever the mower is left unattended, disconnect the spark plug lead and remove the ignition key.

STOPPING THE BLADES

Move the PTO lever towards you to stop the blades from turning. See figure 17.

STOPPING THE RIDER

To stop the rider from moving forward or backward, depress the clutch-brake pedals. See figure 15.

CAUTION

1. Keep all shields and guards in place.
2. Before leaving the operator's position:
   - Shift transmission to neutral
   - Set parking brake
   - Disengage attachment clutch
   - Shut off engine
   - Remove ignition key
3. Wait for all movement to stop and remove spark plug lead before servicing machine.
4. Keep people and pets a safe distance away from machine.

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.

MAINTENANCE

CRANKCASE OIL

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

a. Oil Check

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figures 20 and 21.

b. Oil Change

After the first two hours of operating a new engine, drain the oil (see figures 22 and 23) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after 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. Remove oil filler plug.

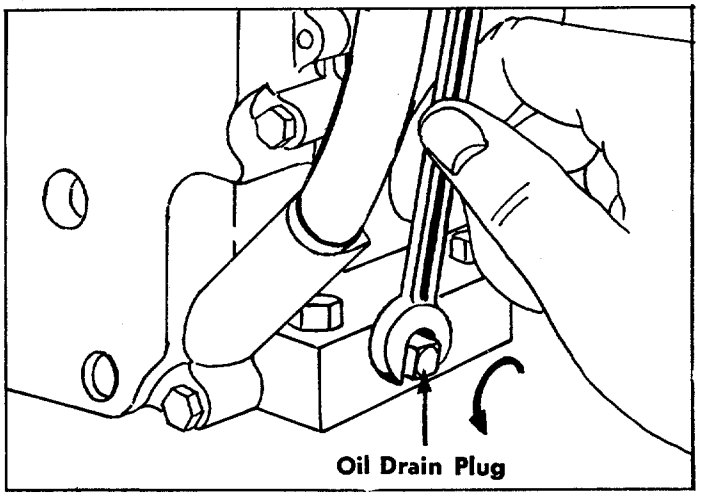


FIGURE 22. BRIGGS & STRATTON OIL DRAIN PLUG

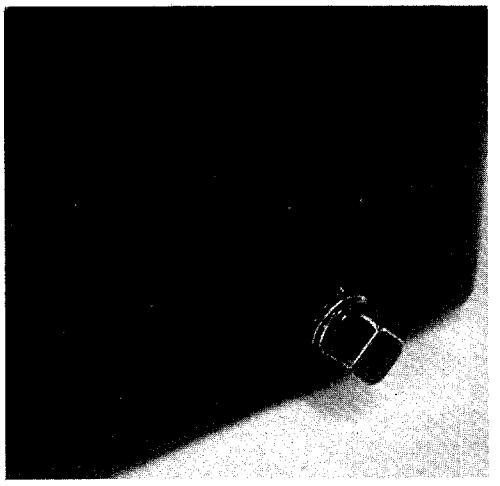


FIGURE 23. TECUMSEH OIL DRAIN PLUG

Step 2. Drain the oil through the hole in the frame.

Step 3. Replace oil filler plug.

Step 4. Refill crankcase with oil. See page 9 for quantity and type of oil.

TRANSAXLE LUBRICATION

The transaxle is lubricated at the factory with three pints of SAE 90 E.P. oil. When replacing or adding oil remove the left rear mounting bolt (see figures 25 and 26) and the overflow plug found on the front of the transaxle. (See figure 25.) Add oil until it overflows. Replace the overflow plug and the filler plug. The transaxle oil should be checked when the oil is cold. Change the oil once a year.

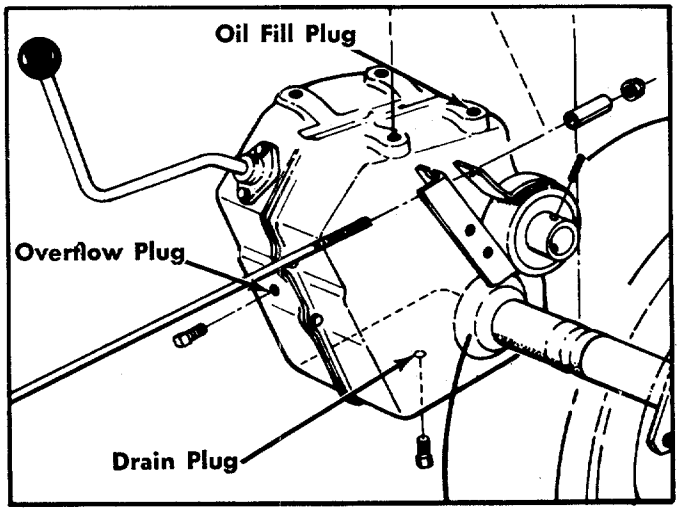


FIGURE 24. TRANSAXLE LUBRICATION

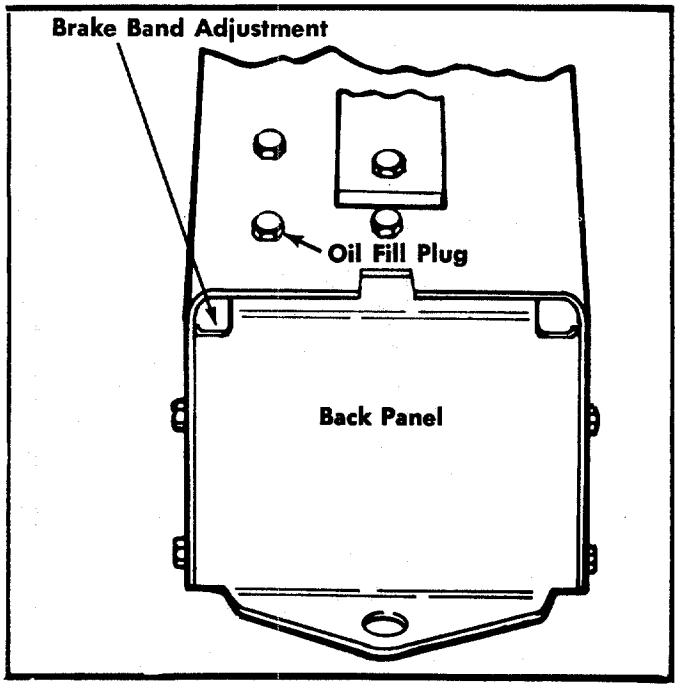


FIGURE 25. BACK PANEL

STEERING GEAR LUBRICATION

Lubricate the teeth on the steering segment, pinion gear and slide with automotive multi-purpose grease after every 24 hours of operation. See figure 26.

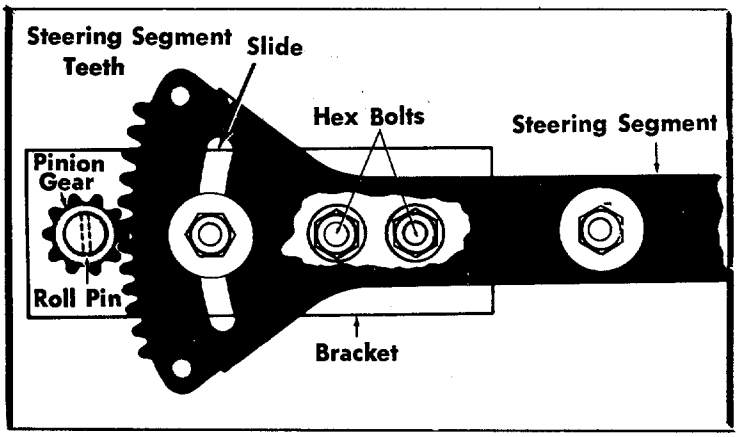


FIGURE 26. STEERING ASSEMBLY

WHEEL BEARING LUBRICATION

Front Wheels—The front wheel bearings are self-lubricating oilite bearings. No additional lubrication is necessary.

Rear Wheels—The rear wheel bearings are lubricated by the oil in the transaxle.

King Pins—The king pins have self-lubricating oilite bearings and require no additional lubrication.

Deck Wheel Bearings—The deck wheels should be removed once a year, cleaned and lubricated with a multi-purpose type of grease.

RIGHT ANGLE DRIVE LUBRICATION

Check the lubricant level after every 24 hours of operation. Lubricate with 4 ounces of E.P.G. Lithium grease. Remove the four screws and take off the plate to check the grease level. See figure 27.

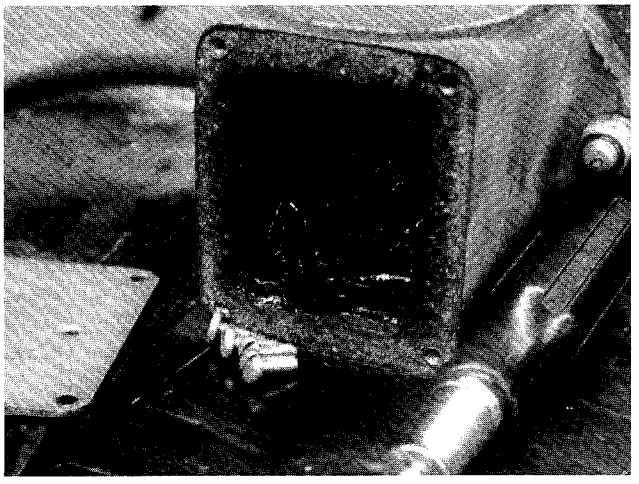


FIGURE 27. GEAR CASE GREASE LEVEL

STEERING ADJUSTMENT

The "play" or looseness of the steering can be adjusted by loosening the two hex bolts on the bracket and lightly tapping the bracket towards the front of the tractor. If the pinion gear becomes worn it can be rotated one-half turn by removing the pin.

AIR FILTER (Briggs & Stratton)

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. See figure 28.

Step 1. Remove the wing nut and cover.

Step 2. Remove the paper element from the support base.

Step 3. To clean, tap the paper element (either top or bottom) on a flat surface or wash in a non-sudsing detergent and flush from the inside until the water is clear. After washing, air dry thoroughly before using.

Step 4. Assemble in reverse of above.

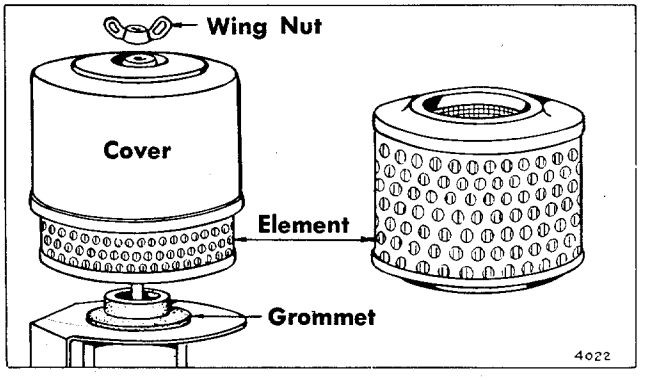


FIGURE 28. BRIGGS & STRATTON AIR FILTER

AIR FILTER (Tecumseh)

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremly dusty operating conditions, the air cleaner must be serviced after every hour of operation. See figure 29.

Step 1. Remove the wing nut and cover.

Step 2. Remove the paper element from the support base.

Step 3. To clean, tap the paper element (either top or bottom) on a flat surface.

CAUTION

Do not wash or oil this filter

Step 4. Assemble in reverse of above.

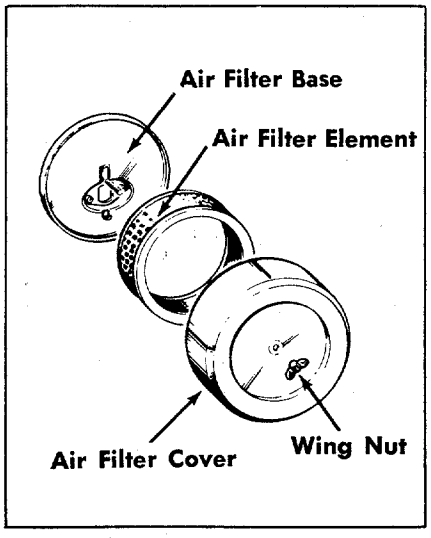


FIGURE 29. TECUMSEH AIR FILTER

CLUTCH-BRAKE PEDAL ADJUSTMENT

To adjust the angle of the clutch-brake pedal, remove the cotter pin and washer on the clutch rod and turn the clutch rod in or out of the ferrule to obtain the most comfortable angle of the pedal when the pedal is released. Replace the washer and cotter pin. See figure 30.

The brake adjustment is made by using a ½" deep well socket and turning the adjusting nut clockwise through the opening in the back panel. This reduces the distance between the brake band and the drum. See figure 25.

CAUTION

If the spring tension idler goes below the height of the engine pulley when the clutch-brake pedal is depressed it will cause excessive belt wear and the brake should be adjusted. See figure 30.

WARNING

Remove spark plug lead.

Step 1. Remove the deck belt from the engine pulley in reverse order as described in the assembly portion of this manual. See figures 10 through 15.

Step 2. Remove the hex bolt from the spring tension idler.

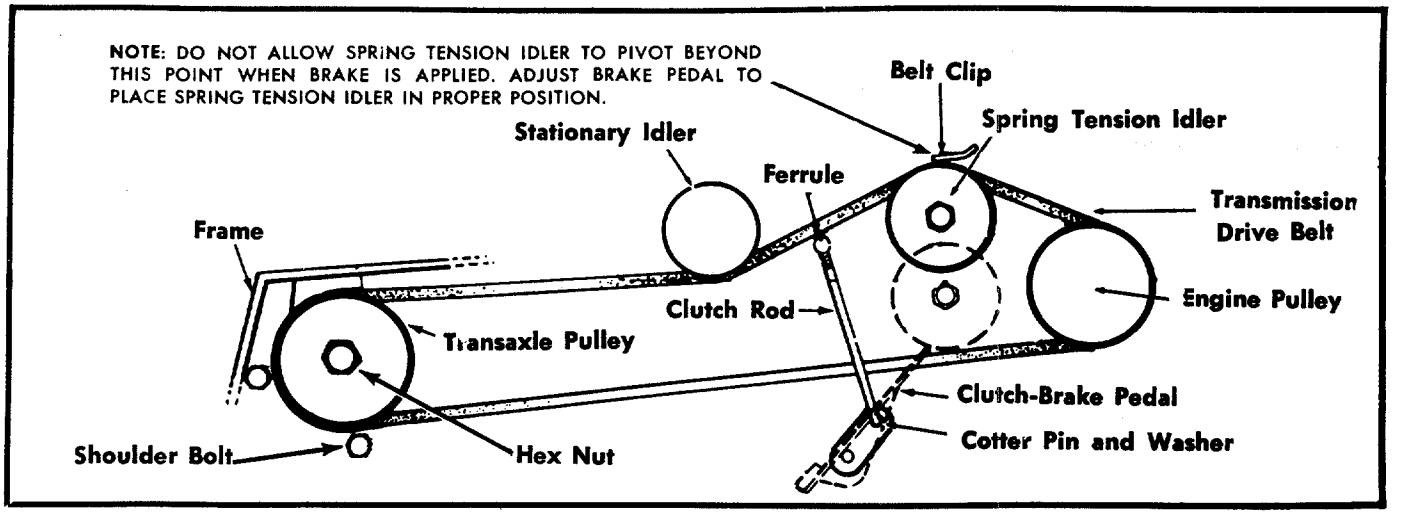


FIGURE 30. CLUTCH BRAKE PEDAL ADJUSTMENT

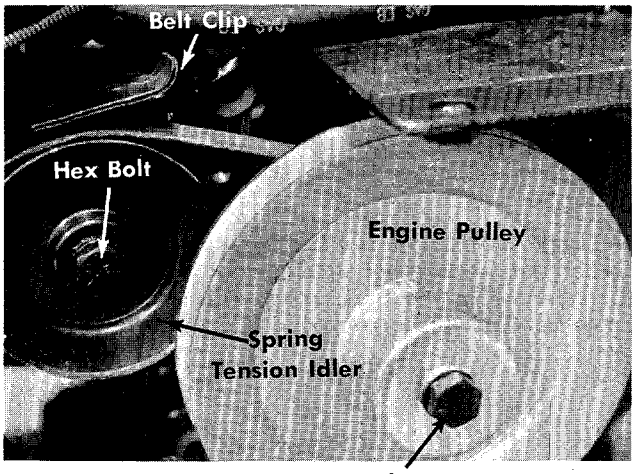


FIGURE 31. ENGINE PULLEY

NOTE

Mark the position of the belt clip so it can be properly positioned during re-assembly

Step 3. Remove the hex bolt holding the engine pulley to the crankshaft of the engine. Pull the pulley off so the belt can be removed. See figure 31.

Step 4. Remove the shoulder bolt near the transaxle pulley. See figure 30.

Step 5. Remove the hex nut on the pulley.

Step 6. Slide off the pulley.

Step 7. Re-assemble in reverse order with a new V-belt.

DECK DRIVE BELT

Step 1. Remove the belt guard over the belt. See figures 32 and 33.

Step 2. Remove the bolt holding the pulley to the gear box.

Step 3. Slide off the pulley and remove the belt.

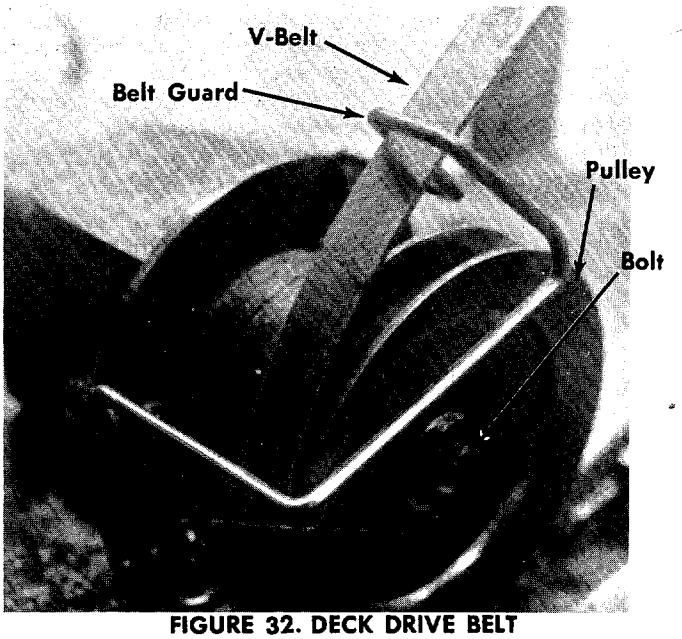


FIGURE 32. DECK DRIVE BELT

BLADE DRIVE BELT—34"

Step 1. Remove the two pulley guards on the deck. See figure 33.

Step 2. Remove the spring on the tension idler.

Step 3. Remove the five bolts holding the mounting bracket to the deck.

Step 4. Lift up the mounting bracket and remove the belt.

Step 5. Replace the belt and re-assemble.

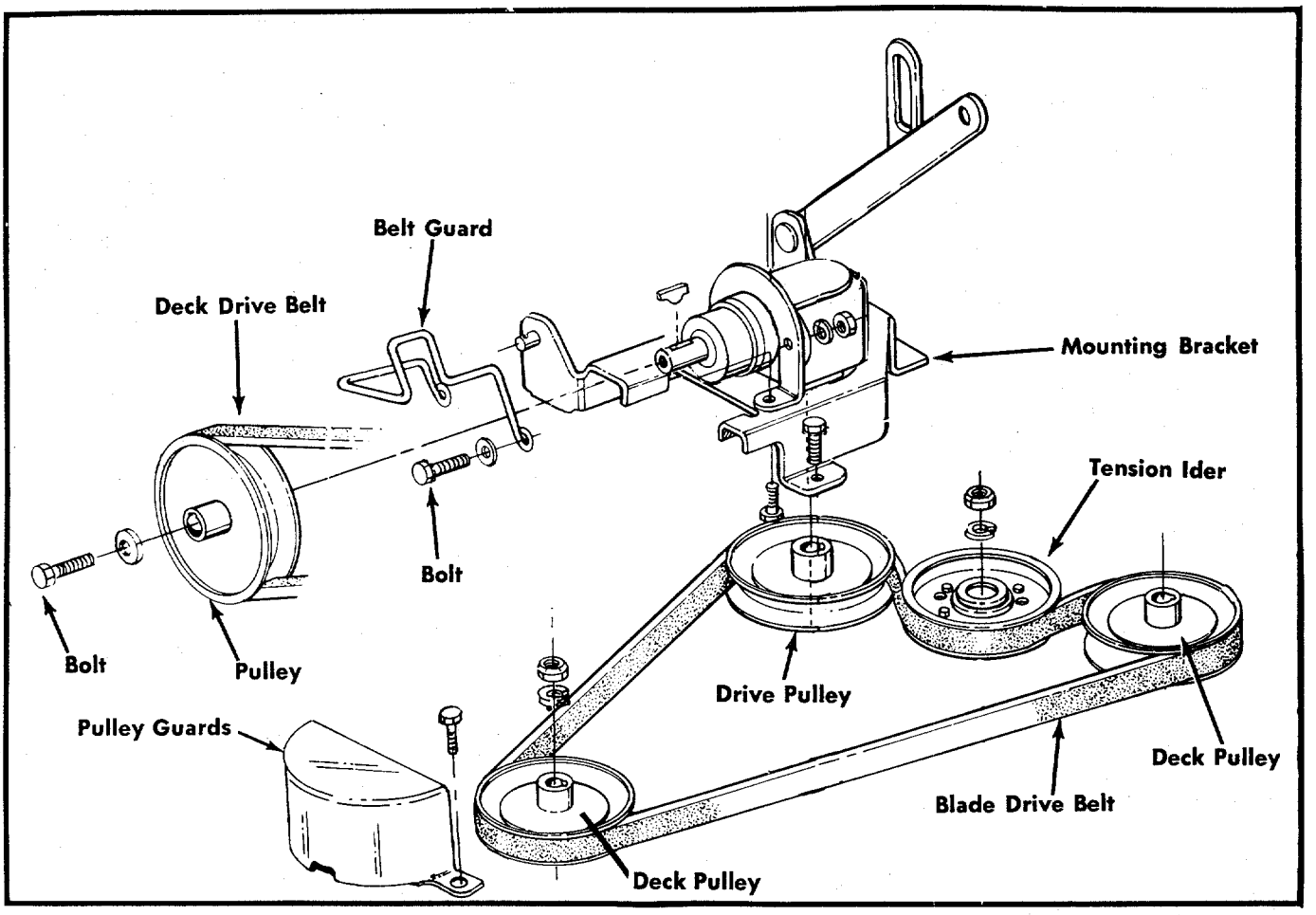


FIGURE 33. DECK DRIVE BELTS

BLADE BELT—42" (See Separate Manual)

STARTER-GENERATOR BELT

After the first ten hours of operation and periodically thereafter, the belt should be tightened or checked on the starter-generator. If the starter-generator turns over and the engine does not crank or there is a high pitched squeel when the starter-generator is turned on, it is an indication of a loose belt. To tighten, LOOSEN the two bolts on the bracket and LOOSEN the two bolts on the adjusting strap. Swing the starter-generator away from the engine, towards the rear of the mower, until the belt is tight. (Belt should deflect ¼" when depressed with your thumb). Tighten all bolts.
To remove the belt, loosen the starter-generator as described above and remove the belt from both pulleys. See figure 34.

REMOVING AND SHARPENING BLADES

Remove the center bolt and lockwasher. See figure 34. Pull the blade and blade adapter from the blade spindle.

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

When grinding or filing the blade, remove equal amounts of metal from both edges to keep the blade in balance. The blade can be tested for balance by balancing it on a screwdriver. Remove metal from the heavy side until it balances directly over the center hole in the blade.

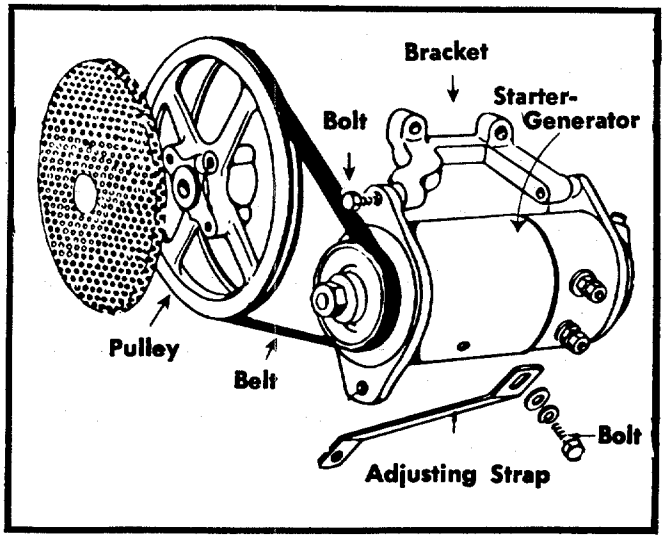


FIGURE 34. STARTER-GENERATOR BELT

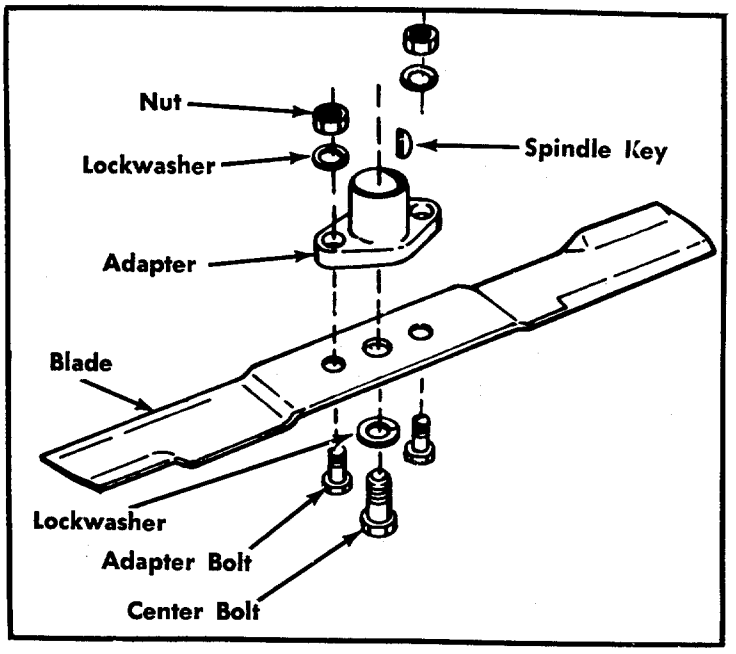


FIGURE 35. BLADE REMOVAL

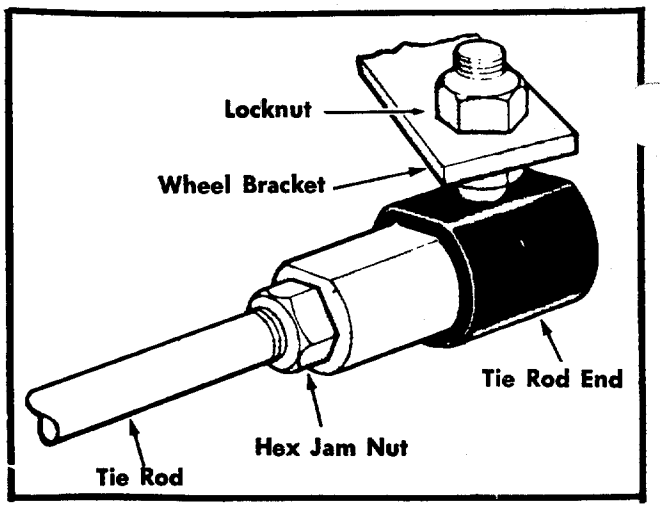


FIGURE 36. TIE ROD END

CLEAN COOLING SYSTEM

Grass particles, chaff or dirt may clog the air-cooling system, especially after prolonged service in cutting dry grasses. Continued operation with a clogged cooling system may cause severe overheating and possible engine damage. It is necessary to remove the blower housing to completely clean this area. See figure 38.

WHEEL ADJUSTMENT

The caster (forward slant of the kingpin) and the camber (tilt of the wheels out at the top) requires no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor. The front wheels should toe-in ⅛ inch. To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, drop the tie-rod end out of the hole in the steering arm and screw the tie-rod end in or out to make the adjustment. The distance "B" must be less than "A" by ⅛ inch. See figures 37 and 38.

To adjust the toe-in follow these steps:

1. Remove the elastic locknut and drop the tie rod from the wheel bracket. See figure 36.
2. Loosen the hex jam nut on the tie rod. See figure 36.
3. Adjust the tie rod assembly for correct toe-in. Dimension "B" should be approximately ⅛" less than dimension "A". See figure 37.
   - A.) To increase dimension "B", screw tie rod into tie rod end.
   - B.) To decrease dimension "B", unscrew tie rod from tie rod end.
   - C.) Reassemble tie rod. Check Dimension. Readjust if necessary.

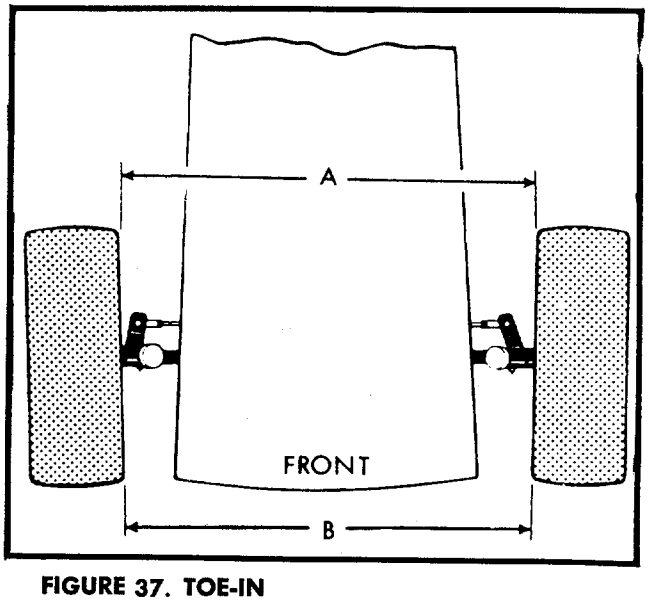


FIGURE 37. TOE-IN

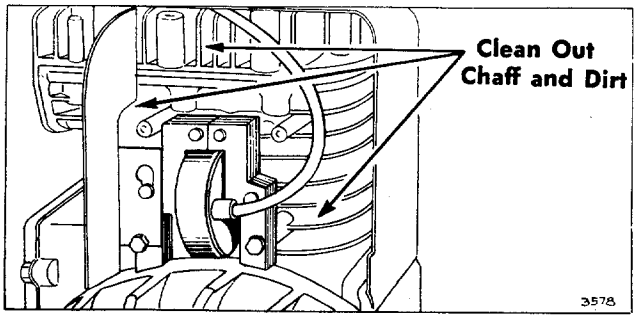


FIGURE 38. COOLING SYSTEM

FUEL SHUT-OFF VALVE AND FILTER

The fuel shut-off valve is located under the gasoline tank and is opened by turning it counter-clockwise. See figure 40.

The filter should be replaced once a year to insure operating your engine with clean fuel. To replace the filter, shut off the fuel valve and compress the legs of the clamps on both sides of the filter and slide them back. Replace the filter and replace the clamps.

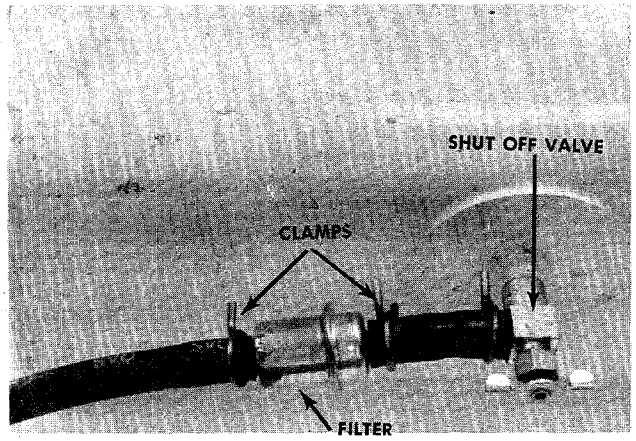


FIGURE 39. SHUT-OFF VALVE

CARBURETOR ADJUSTMENTS (Briggs & Stratton 8 h.p.)

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.

To adjust Carburetor: Turn needle valve clockwise until it just closes. **Caution:** Valve may be damaged by turning it in too far.

Now open needle valve 1⅛ turns counter-clockwise. Close idle valve in same manner and open 1⅛ turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment.

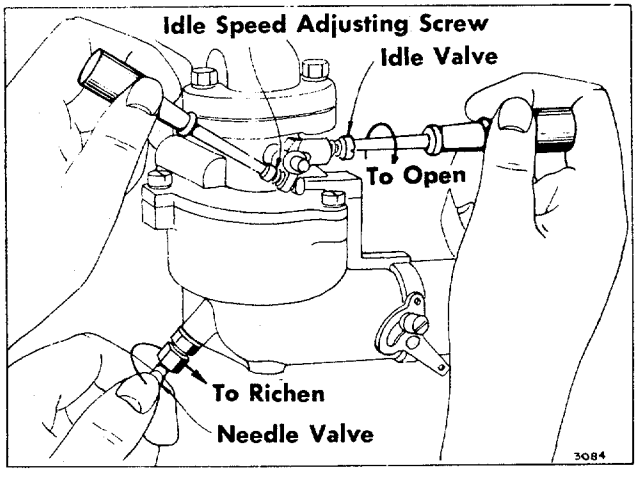


FIGURE 40. CARBURETOR ADJUSTMENT

Final Adjustment: Turn needle valve in until engine misses (lean mixture) then turn it out past smooth operating point until engine runs unevenly (rich mixture). Now turn needle valve to the mid-point between rich and lean so the engine runs smoothly. Hold throttle at idle position and set idle speed adjusting screw until fast idle is obtained (1750 RPM). Hold throttle in idle position and turn idle valve in (lean) and out (rich) until engine idles smoothly. Then reset idle speed adjusting screw so that engine idles at 1750 RPM. Release throttle—engine should accelerate without hesitation or sputtering. If engine does not accelerate properly, the carburetor should be re-adjusted to a slightly richer mixture.

CHOKE-A-MATIC CARBURETOR CONTROL ADJUSTMENTS

Proper choke and stop switch operation is dependent upon proper adjustment of remote control on the powered equipment.

To Check Operation of Choke-A-Matic Controls:

a. Remove air cleaner.

b. Move remote control lever to CHOKE position. The carburetor choke should be closed.

c. Move remote control to STOP position. Lever should make good contact with stop switch.

To Adjust:

Place remote 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". Replace air cleaner.

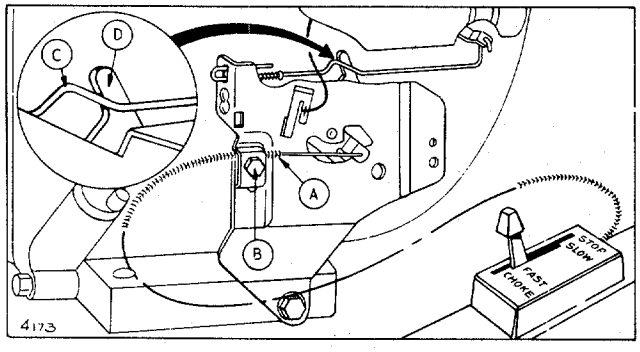


FIGURE 41. CHOKE ADJUSTMENT

CARBURETOR ADJUSTMENTS (Tecumseh 10 h.p.)

DO NOT MAKE UNNECESSARY ADJUSTMENTS

Factory settings are correct for most applications. If adjustments are needed, proceed as follows: See figure 43.

1. Close power adjusting needle by turning to right (clockwise). Close finger tight only. Forcing will cause damage
2. Open 1½ turn (counter-clockwise).
3. Close idle adjusting needle by turning to right (clockwise). Close finger tight only. Forcing will cause damage.
4. Open 2 turns (counter-clockwise).
5. Start engine. Follow starting instructions page 1.
6. With throttle open carburetor at "run" or "fast" position adjust power adjusting needle one-eighth (⅛) turn at a time forward or backward until engine runs smoothly. If engine tends to stall under load, enrich mixture slightly (counter-clockwise).
7. Hold throttle lever closed or move carburetor control to "idle or slow" position and adjust idle adjusting needle until the engine runs smoothly, proceeding as in step 6 above.
8. Allow several seconds between each adjustment when performing either step 6 or 7 to allow engine to react to new setting.

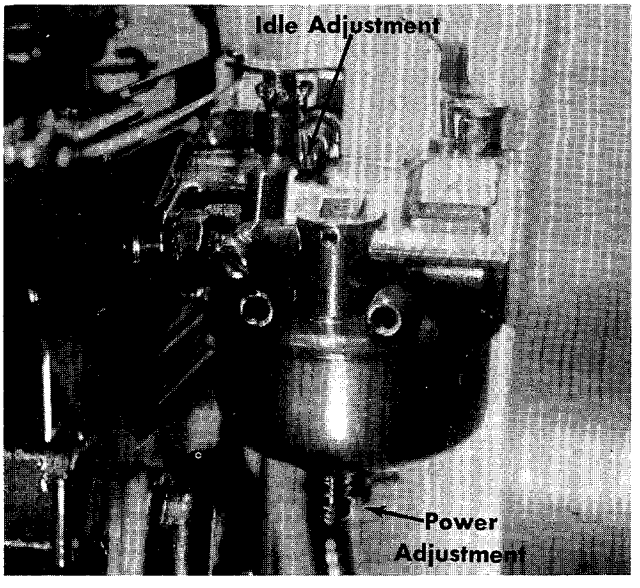


FIGURE 42. CARBURETOR ADJUSTMENT

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 the Maintenance Section, then wipe the entire machine with an oiled rag in order to protect the surfaces.

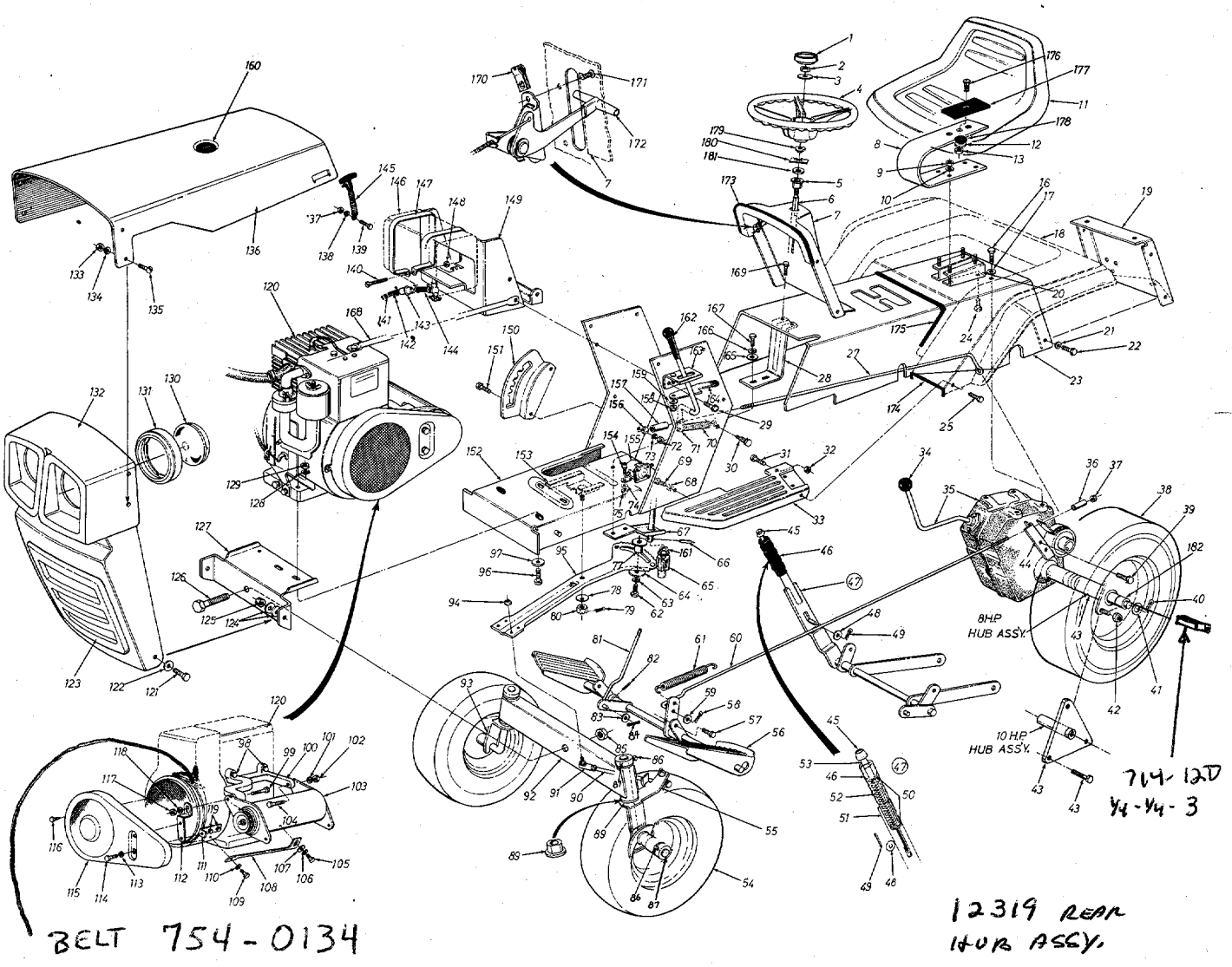
TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine fails to start.	Safety System	A. Check for a blown fuse in the wire leading from the positive terminal of the battery. 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. 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. D. Check for continuity from the battery to the solenoid. NOTE: The positive terminal of the battery should have a large cable (#8 guage) and a small wire (#18 gauge) attached to it. E. Check all wires and cable for tightness. F. Use a #8 gauge wire and jump between the two large terminals of the solenoid. If the unit starts, replace the solenoid. G. If the unit fails to start after following the above procedure the problem is probably in the starting motor of the engine.
	Blocked fuel line or empty gas tank.	Clean fuel line; check fuel supply. Also check fuel shut-off valve.
	Defective spark plug.	Spark plug lead wire disconnected. Faulty spark plug—spark should jump gap between control electrode and side electrode. If spark does not jump, replace spark plug. NOTE: Use insulated pliers to hold the spark plug wire.
	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 **Engine Manual.**
	Carburetor improperly adjusted.	Review paragraph **Carburetor Adjustment.**
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 CAUTION following step 1 in paragraph **Operation.**
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.

144-660A
144-672A
144-760A
144-761A

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

MODEL



12319 REAR HUB ASSY.

USED ON EARLY 74 PROA OLD TRANS. WITH 751A WITCH

ILLUSTRATED PARTS

PARTS LIST FOR 144-660A, 144-672A, 144-760A AND 144-761A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-220		Steering Wheel Cap	
2	712-158		Hex Center Locknut 5/16-18 Thd.	
3	736-174		Wave Washer .660 I.D. x .88 O.D. x .010	
4	731-219		Steering Wheel	
5	748-227		Hex Flange Bearng .630" Dia.	
6	738-203		Steering Shaft	
7	11976		Dash Panel Ass'y. (660A, 672A and 760A)	
	11977		Dash Panel Ass'y. (761A)	
8	732-256		Seat Spring	
9	712-267		Hex Nut 5/16-18" Thd.*	
10	736-119		Spring Lockwasher 5/16" Scr.*	
11	757-241		Seat	
12	736-208		Fl-Wash. .51 I.D. x 1.50 O.D.	
13	712-384		Hex Center Nut ½-13 Thd.*	
14	712-267		Hex Nut 5/16-18" Thd.*	
15	736-119		Spring Lockwasher 5/16" Scr.*	
16	710-216		Hex Scr. ⅜-16 x .75" Lg.*	
17	736-169		Spring Lockwasher ⅜" Scr.*	
18	11975	—459	Rear Fender	
19	8597		Frame Plate Ass'y.	
20	11988		Fender Support Ass'y.	
21	736-169		Spring Lockwasher ⅜" Scr.*	
22	710-216		Hex Scr. ⅜-16 x .75" Lg.*	
23	11954		Frame Ass'y.	
24	710-198		Hex Sems Scr. 5/16-18 x.75" Lg.*	
25	710-252		Hex Scr. ¼-20 x .75" Lg.* .75" Lg.*	
27	747-100		Hand Brake Rod	
28	8618		Reinforcement Brkt. Ass'y.	
29	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
30	711-220		Hex Hd. Step Special Scr.	
31	710-377		Hex Sems Scr. ¼-20 x .63" Lg.*	
32	712-287		Hex Nut ¼-20 Thd.*	
33	11986		Running Bd. Ass'y.—R.H.	
	11985		Running Bd. Ass'y.—L.H. (Not Shown)	
34	722-116		Gear Shift Knob	
35	—		Transaxle (See Breakdown Page 29)	
36	750-187		Spacer Tube	
37	712-429		Hex Inserted Locknut 5/16-18 Thd.	
38	734-447		Wheel Ass'y. Comp.—Rear .18 x 9.50 (660A and 672A)	
	734-448		Tire Only 18 x 9.50 (660A and 672A)	
	734-449		Rear Rim Ass'y. 8.0 x 7.0 (660A and 672A)	
	734-255		Air Valve	
	734-505		Wheel Ass'y. Comp.—Rear 20.0 x 8.50 (760A and 761A)	
	734-506		Tire Only 20.0 x 8.50 (760A and 761A)	
	734-507		Rear Rim Ass'y (760A and 761A)	
39	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
40	714-142		Cotter Pin 3/16" Dia. x 1.50" Lg.	
41	736-163		Flat Washer 1.03 I.D. x 1.62" O.D. x .03 Hdn.	
42	712-193		Cone Nut ⅜-24 Thd. (660A and 672A)	
43	12355		Rear Wheel Hub Ass'y. (660A and 672A)	N
	11942		Rear Wheel Hub Ass'y. (760A and 761A)	
	710-470		Wheel Hub Bolts ½-20 x 1.50" Lg. Special (760A and 761A)	
44	8622		Brake Ass'y. Complete	
45	726-110		Push Cap	
	761-152		Brake Drum	
46	8818		Grip	
47	11521		Lift Handle Ass'y.—Comp.	
48	736-234		Flat Washer .385 I.D. x 1.50 O.D. x 135	
49	714-474		Cotter Pin ⅛" Dia. x .75" Lg.*	
50	736-300		Flat Washer .300 I.D. x .870 O.D. x .060	
51	11983		Lift Handle Ass'y.	
52	732-156		Compression Spring	
53	750-124		Spacer	
54	734-649		Front Wheel Ass'y. 13.0 x 6.5 Comp (660A and 672A)	N

*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.

PARTS LIST FOR 144-660A, 144-672A, 144-760A AND 144-761A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
	734-650		Front Wheel Tire Only 13.0 x 6.5 (660A and 672A)	N
	734-499 R.B 734-0497A		Front Wheel Rim Ass'y. 6.0 x 4.5 (660A and 672A)	N
	734-497		Front Wheel Ass'y. 15.0 x 6.0 Comp. (760A and 761A)	
	734-498		Front Wheel Tire Only 13.0 x 5.0 (760A and 761A)	
	734-499		Front Wheel Rim Ass'y. 6.0 x 45 (760A and 761A)	
	748-184		Flange Bearing .630 I.D.	
55	11979		Front Axle Ass'y.—L.H.	
56	8653		Foot Pedal Ass'y.	
57	710-209		Hex Sems Scr. 3/8-16 x .62" Lg.*	
58	714-474		Cotter Pin 1/8" Dia. x .75" Lg.*	
59	736-264		Flat Washer .344 I.D. x .63 O.D. x .063	
60	711-203		Brake Rod	
61	732-180		Extension Spring .88 O.D. x .4" Lg.	
62	710-344		Hex Scr. 3/8-16 x 1.50" Lg.*	
63	736-169		Spring Lockwasher 3/8" Scr.*	
64	7386		Washer	
65	748-203		Spur Gear 12 Teeth	
66	715-247		Spring Pin Spirol 3/16" Dia. x 1.00" Lg.	
67	10043		Lower Mtg. Brkt. Ass'y.	
68	736-169		Spring Lockwasher 3/8" Scr.*	
69	710-253		Hex Scr. 3/8-16 x 1.00" Lg.*	
70	732-264		Extension Spring	
71	11513		Hand Brake Lever	
72	712-798		Hex Nut 3/8-16 Thd.*	
73	736-148		External Lockwasher 3/8" Scr.*	
74	736-329		Spring Lockwasher 1/4" Scr.*	
75	712-287		Hex Nut 1/4-20 Thd.*	
77	750-215		Steering Spacer	
78	736-112		Belleville Washer .535 I.D. x 1.51 O.D. x .052	
79	714-115		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
80	712-114		Hex Slotted Nut 1/2-20 Thd.	
81	711-218		Clutch Rod	
82	710-938		Set Scr. 1/4-28 x .25" Lg. Cup Point	

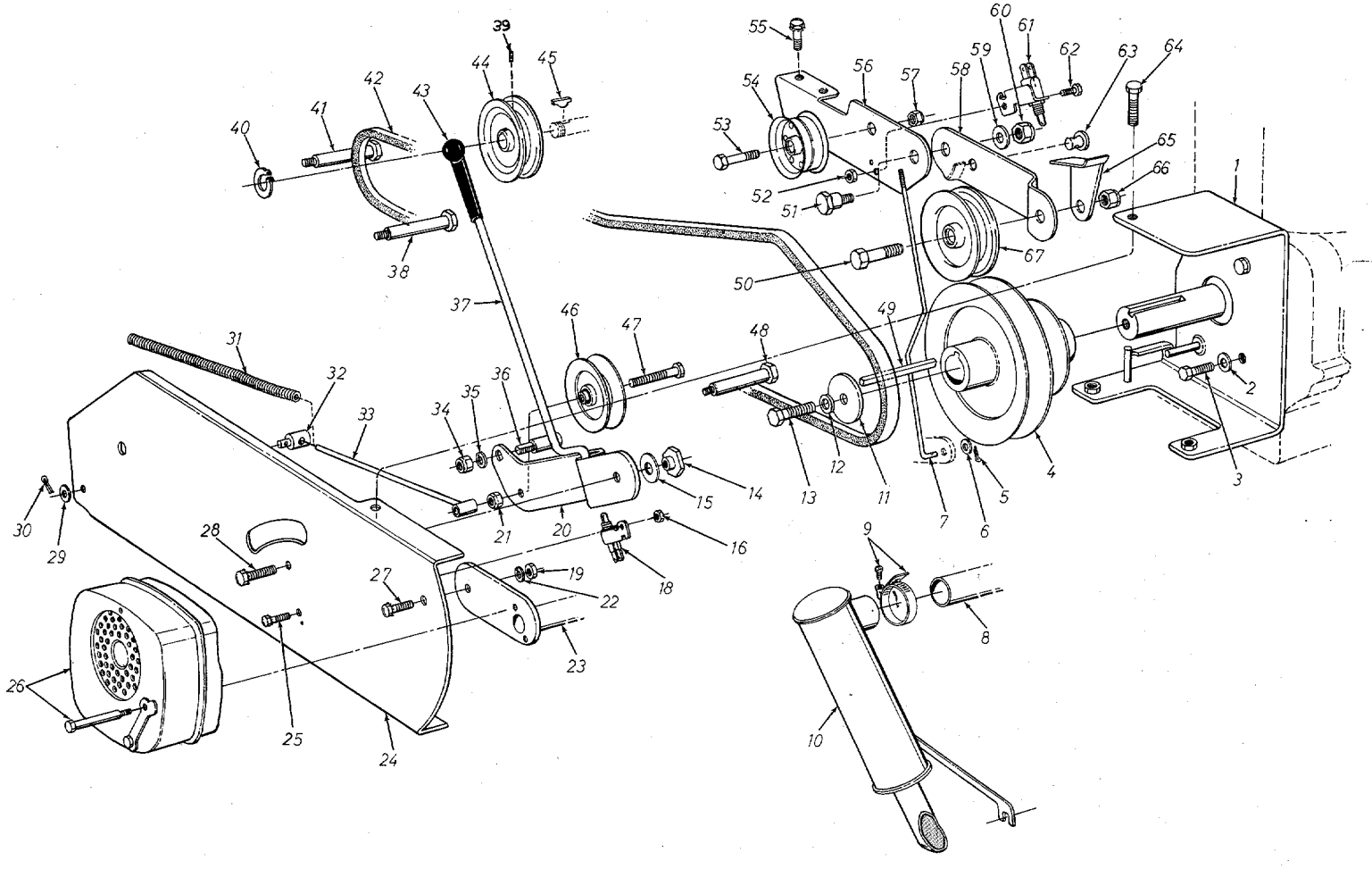
REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
83	736-264		Flat Washer .344 I.D. x .63 O.D. x .063	
84	714-474		Cotter Pin 1/8" Dia. x .75" Lg.	
85	712-923		Hex Center Locknut 5/8-18 Thd.	
86	710-494		Sq. Hd. Set Scr. 5/16-18 x .33 Cup Point	
87	711-0169		Collar 5/8 I.D.	
89	748-209		Flange Bearing (Double "D")	
90	711-209		Tie Rod	
91	723-156		Ball Joint 3/8-24 Thd. (Tie Rod End)	
92	11833		Front Pivot Bar Ass'y.	
93	11980		Front Axle Ass'y.—R.H.	
94	712-116		Hex Inserted Locknut 3/8-24 Thd.	
95	11965		Steering Segment Ass'y.	
96	710-116		Hex Scr. 5/16-18 x 2.00" Lg.* (660A)	
	710-342		Hex Scr. 3/8-16 x 1.25" Lg.* (760A and 761A)	
97	736-133		Flat Washer .406 I.D. x 1.25 O.D. x 1.00	
98	—		Briggs & Stratton Part (660A)	
99	710-380		Hex Scr. 24 x 1.75" Lg. (660A)	
100	—		B & S Part (660A)	
101	736-119		Spring Lockwasher (660A) 5/16" Scr.* (660A)	
102	712-267		Hex Nut 5/16-18 Thd.* (660A)	
103	725-143		Starter Generator (660A)	
	754-134		V-Belt 3/8 x 33" Lg. Generator (660A)	
104	710-380		Hex Scr. 5/16-24 x .75" Lg.* (660A)	
105	—		Briggs & Stratton Part (660A)	
106	—		Briggs & Stratton Part (660A)	
107	736-264		Flat Washer .344 I.D. x .63 O.D. x .063 (660A)	
108	—		Briggs & Stratton Part (660A)	
109	—		Briggs & Stratton Part (660A)	
110	—		Briggs & Stratton Part (660A)	

*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.

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
111	—		Briggs & Stratton Part (660A)	
112	—		Briggs & Stratton Part (660A)	
113	736-329		Spring Lockwasher ¼" Scr.* (660A)	
114	710-258		Hex Scr. ¼-20 x .63" Lg.* (660A)	
115	9284		Belt Cover (660A)	
116	710-148		Hex "F"-Tapp. Scr. #8-32 .38" Lg. (660A)	
117	712-267		Hex Nut 5/16-18 Thd.* (660A)	
118	736-119		Spring Lockwasher 5/16" Scr.* (660A)	
119	10 H.P.		Tecumseh Engine Model HH100-115182D (761A)	
120	8 H.P.		Briggs & Stratton Engine Model 190410-0783-01 (660A)	
	10 H.P.		Briggs and Stratton (760A and 672A)	
121	710-344		Hex Scr. ⅜-16 x 1.50" Lg.*	
122	736-300		Flat Washer .385 I.D. x .87 O.D. x .060	
123	731-208		Grille Insert	
124	736-105		Belleville Washer	
125	712-130		Hex Inserted Locknut ⅜-16 Thd	
126	710-533		Hex Scr. ⅜-18 x 2.5 Special	
127	11946		Front Pivot Support	
28	736-119		Spring Lockwasher 5/16" Scr.* (660A)	
	736-169		Spring Lockwasher ⅜" Scr.* (760A and 761A)	
129	712-267		Hex Nut 5/16-18 Thd.* (660A)	
130	725-222		Headlight	
131	735-156		Headlight—Door Mtg. x .06	
132	719-201		Grille (660A and 761A)	
	719-218		Grille (760A) (672A)	
133	712-287		Hex Nut ¼-20 Thd.*	
134	736-329		Spring Lockwasher ¼" Scr.*	
135	710-255		Truss Mach. Scr. ¼-20 x .75" Lg.*	
136	11970	—459	Top Hood (660A)	
	11969	—459	Top Hood (761A)	
	12369	—459	Top Hood (672A and 760A)	N
137	712-138		Hex Nut ¼-28 Thd.*	
138	736-329		Spring Lockwasher ¼" Scr.*	
139	710-195		Hex Scr. ¼-28 x .62" Lg.*	
140	710-279		Fillister Mach. Scr. ¼-20 x 1.75" Lg.*	
141	723-153		Gas Hose ¼" I.D. x ½" O.D. x 10½" Lg. (660A)	
142	723-157		Hose Clamp ½" O.D.	
143	723-154		Gas Filter	
144	723-152		Gas Hose ¼" I.D. x ½" O.D. x 1½" Lg.	
145	723-296		Hood Lock Ass'y.	
146	723-149		Gas Tank 4 Qt.	
147	723-151		Gas Tank Strap	
148	712-287		Hex Nut ¼-20 Thd.*	
149	11967		Battery Box Ass'y.	
150	11971		Index Bracket	
151	710-253		Hex Scr. ⅜-16 x 1.00" Lg.*	
152	11955		Front Frame Ass'y.	
153	—		Part of Ref. No. 152	
154	710-258		Hex Scr. ¼-20 x .63" Lg.*	
155	725-270		Solenoid	
156	712-324		Hex Inserted Locknut ¼-20 Thd.	
157	750-219		Spacer .385 I.D. x .51 O.D. x .063	
158	712-324		Hex Inserted Locknut ¼-20 Thd.	
159	736-142		Flat Washer .281 I.D. x .50 x 2.00	
160	723-155		Gas Gauge	
161	748-228		Flange Brg. .505	
162	720-143		Grip	
163	11500		Hand Brake Brkt. Ass'y.	
164	11504		Hand Brake Stop Lever	
	11249		Knob for Ref. No. 164	
165	736-105		Belleville Washer O.D. x .060	
166	736-169		Spring Lockwasher ⅜" Scr.*	
167	710-253		Hex Scr. ⅜-16 x 1.00" Lg.*	
168	11999		Reinforcement Brace (660A)	N
	11998		Reinforcement Brace (761A)	N
169	712-253		Hex Scr. ⅜-16 x 1.00" Lg.*	
170	712-147		Speed Nut #10-24" Type	
171	710-192		Truss Mach. Scr. #10-24 x .38" Lg.*	
172	746-220		Throttle Control—RH. (660A)	
	746-221		Throttle Control (760A and 761A)	
	746-222		Choke Control (761A) (760A and 761A)	
173	731-144		Ext. U-Chan.—Vinyl 12" lg. blk.	
174	731-252		Ext. U-Chan—Vinyl 5" lg. blk.	N
175	731-253		Ext. U-Chan.—Vinyl 10" lg. blk.	N
176	—		Part of Seat	
177	735-163		Rubber Strap	N
178	735-159		Rub. Wash. .56 I.D.x1.50 O.D.	
179	736-174		Wave Wash. .660 I.D.x.88 O.D.	
180	712-222		Push Nut .62" Dia.	
181	736-156		Fl-Wash. .635 I.D. x 1.120 O.D.	
182	750-257		Hub Sleeve (660A and 672A)	

***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.**

144-660A
144-672A
144-760A
144-761A

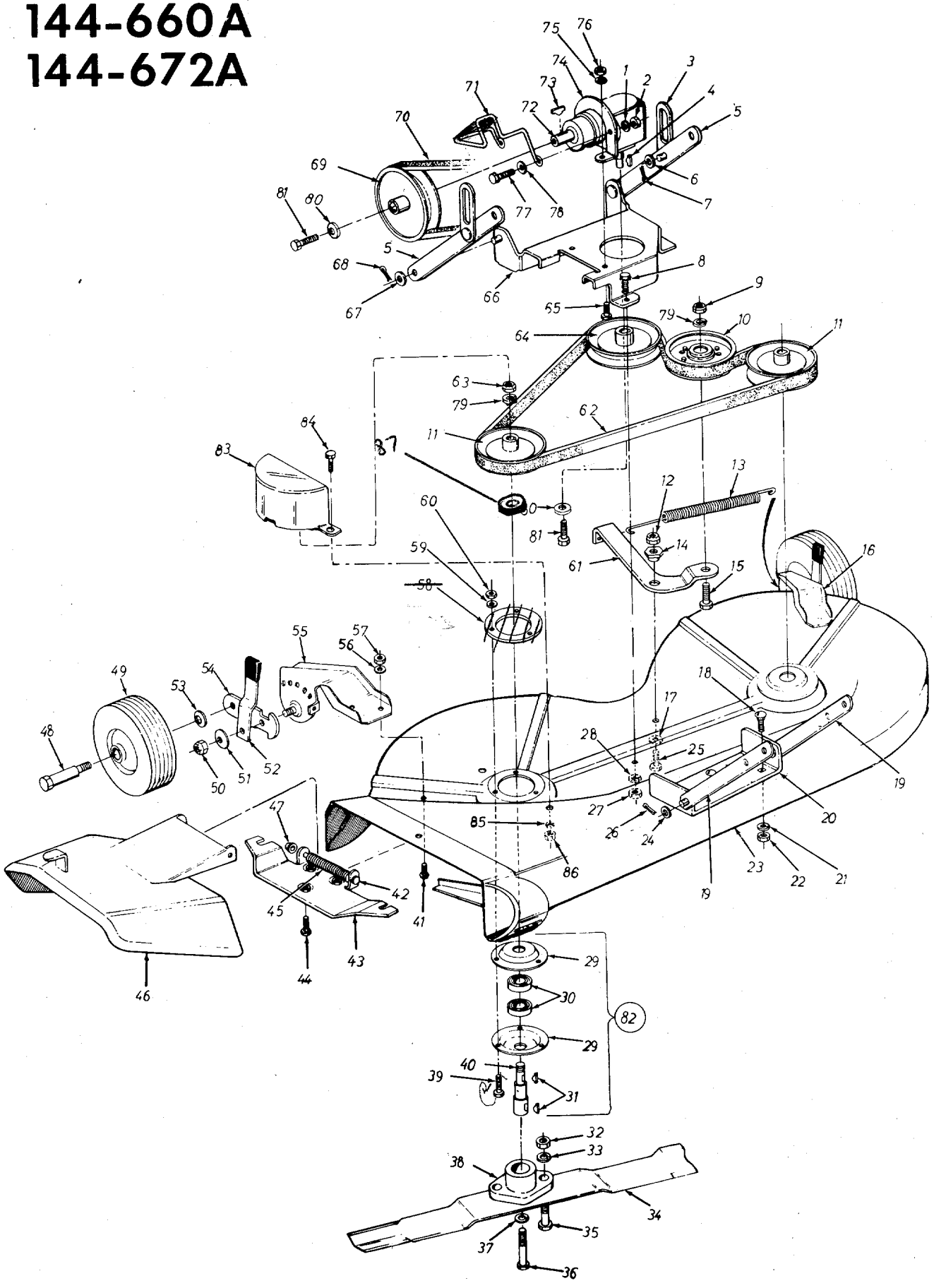


PARTS LIST FOR 144-660A, 144-672A, 144-760A AND 144-761A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	11938		Engine Mtg. Brkt. Ass'y.	
2	736-119		Spring Lockwasher 5/16" Scr.*	
3	710-118		Hex Scr. 5/16-18 x .75" Lg.* (760A and 761A)	
4	756-201		Engine Two Step Pulley	
5	714-474		Cotter Pin 1/8" Dia. x .75" Lg.*	
6	736-264		Flat Washer .344 I.D. x x .63 O.D. x .063	
7	711-218		Clutch Rod	
8	751-131		Muffler Tubing (761A)	
	751-170		Muffler Tubing (760A)	N
9	726-132		Hose Clamp 5/8" (760A and 761A)	
10	751-130		Muffler Ass'y. (760A and 761A)	
11	7386		Washer	
12	736-169		Spring Lockwasher 3/8" Scr.*	
13	710-191		Hex Scr. 3/8-24 x 1.25" Lg.*	
14	711-404		Shoulder Nut	
15	736-100		Flat Washer .531 I.D. x 1.25 O.D	
16	712-324		Hex Ins. L-Nut 1/4-20 Thd.*	
18	725-268		Safety Switch	
19	712-267		Hex Ins L-Nut 5/16-18 Thd.* (760A and 761A)	
20	11947		Clutch Bracket Ass'y.	
21	712-130		Hex Inserted Locknut 3/8-16 Thd.	
22	736-119		Spring Lockwasher 5/16" Scr.*	
23	751-137		Muffler Extension Ass'y. (660A)	
24	11940		Clutch Cover Plate	
25	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
26	—		Lo-Tone Muffler (660A) (Order from Briggs & Stratton)	
27	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
28	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.*	
29	736-159		Flat Washer .344 I.D. x .88 O.D. x .063	
30	714-111		Cotter Pin 3/32" Dia. x 1.00" Lg.*	
31	732-281		Clutch Spring	
32	711-432		Brake Ferrule	
33	11964		Spring Guide Ass'y.	
34	712-798		Hex Nut 3/8-16 Thd.*	
35	736-169		Spring Lockwasher 3/8" Scr.*	
36	738-209		Lockout Shaft	
37	11947		Clutch Bracket Ass'y.	
38	738-215		Shoulder Scr. .498 Dia. x 3.00	
39	710-356		Sq. Hd. Set Scr. 5/16-18 x .50" Lg. Cup Point	
40	716-101		Snap Ring .750 Dia. Shaft	
41	738-215		Shoulder Scr. .498 Dia. x 3.00	
42	754-182		"V"-Belt 21/32 x 81" Lg.	
43	720-143		Grip	
44	756-204		Pulley 5.25 Dia.	
45	714-314		#9 Hi-Pro-Key 3/16-3/4" Dia.	
46	756-116		Idler—"V"-Belt	
47	710-427		Hex Scr. 3/8-16 x 2.00" Lg.	
48	738-146		Shoulder Scr. .500 Dia. x 1.350	
49	714-114		Sq. Key 1/4 x 2.00" Lg.	
50	710-459		Hex Scr. 3/8-24 x 1.50" Lg.*	
51	738-143		Shoulder Scr. .498" Dia. x .340	
52	712-324		Hex Ins. L-Nut 1/4-20 Thd.*	
53	710-459		Hex Scr. 3/8-24 x 1.50" Lg.*	
54	756-117		Idler—Flat	
55	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
56	8620		Clutch Mtg. Brkt. Ass'y.	
57	712-116		Hex Inserted Locknut 3/8-24 Thd.	
58	9200		Clutch Bracket	
59	736-300		Flat Washer .385 I.D. x .87 O.D. x .060	
60	712-130		Hex Inserted Locknut 3/8-16 Thd.	
61	725-268		Safety Switch	
62	710-258		Hex Scr. 1/4-20 x .62" Lg.*	
63	711-179		Adjustment Ferrule	
64	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
65	8664		Belt Keeper	
66	712-116		Hex Inserted Locknut 3/8-24 Thd.	
67	756-116		Idler—"V"-Belt	

***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.**

144-660A
144-672A

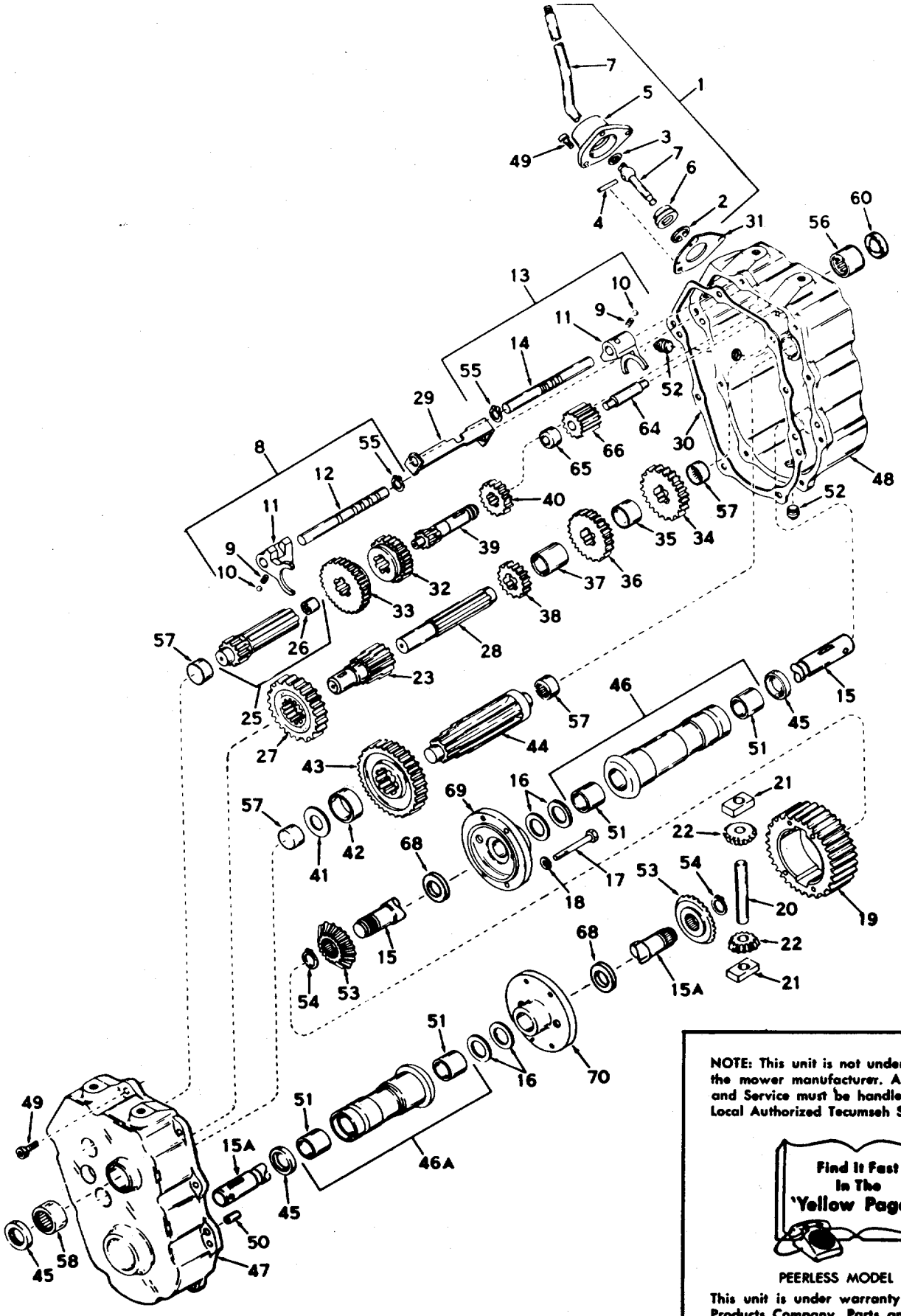


PARTS LIST FOR 34" MOWING UNIT USED ON 144-660A AND 144-672A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	736-148		External Lockwasher ⅜" Scr.*	
2	712-798		Hex Nut ⅜-16 Thd.*	
3	11516		Lockout Link Assembly	
4	714-388		#61 Hi Pro Key 3/16 x ⅝" Dia.	
5	11951		Deck Link	
6	736-160		Flat Washer .531" I.D. x .940" O.D. x .050	
7	714-101		Internal Cotter Pin ½" Dia.	
8	710-198		Hex Sems Scr. 5/16-18 x .75" Lg.*	
9	712-242		Hex Jam Nut ⅝-11 Thd.*	
10	711-306		Deck Idler	
11	756-124		Pulley 4.75" Dia.	
12	712-267		Hex Nut 5/16-18 Thd.*	
13	732-191		Spring .75 O.D. x 11.0" Lg.	
14	711-404		Shoulder Nut	
15	710-367		Hex. Scr. ⅝-11 x 1.50" Lg.	
16	11237		Wheel Bracket Ass'y.—L.H.	
17	736-123		Flat Washer .344 I.D. x 1.125 O.D. x .063	
18	710-260		Carriage Bolt 5/16-18 x .62" Lg.*	
19	11951		Deck Link	
20	11936		34" Front Deck Brkt. Ass'y.	
21	736-119		Spring Lockwasher 5/16" Scr.*	
22	712-267		Hex Nut 5/16-18 Thd.*	
23	11958		34" Tractor Deck Ass'y.	
24	736-160		Flat Washer .531" I.D. x .940" O.D. x .050	
25	710-322		Hex Sems Scr. 5/16-18 x 1.00" Lg.	
26	714-101		Internal Cotter Pin ½" Dia.	
27	712-267		Hex Nut 5/16-18 Thd.*	
28	736-119		Spring Lockwasher 5/16" Scr.*	
29	8253		Housing Bearing	
30	741-919		Ball Bearing .787" I.D. x 1.85" O.D. x .551	
31	714-365		#6 Hi Pro Key 5/32 x ⅝" Dia.	
32	712-123		Hex Nut 5/16-24 Thd.*	
33	736-119		Spring Lockwasher 5/16" Scr.*	
34	742-120		Blade 17.0 Inch	
35	710-117		Hex Scr. 5/16-24 x 1.00" Lg. Heat Treated	
36	710-459		Hex Scr. ⅜-24 x 1.50" Lg. Heat Treated	
37	736-217		Spring Lockwasher ⅜" Scr. Heavy Duty	
38	10769		Blade Adapter Kit	
39	710-376		Hex Scr. 5/16-18 x 1.00" Lg.*	
40	711-597		Blade Spindle	
41	710-289		Hex Scr. ¼-20 x .50" Lg.*	
42	711-571		Hinge Pin	
43	11399		Adapter Plate Ass'y.	
44	710-195		Hex Scr. ¼-28 x .62" Lg.*	
45	732-261		Torsion Spring	
46	11574		Chute Cover Ass'y.	
47	726-106		Push Nut ¼" Rod	
48	738-119		Shoulder Scr. .625" Dia. x 1.75 (Axle)	
49	734-225		6.0" Dia. Wheel Ass'y.	
50	712-116		Hex Inserted Locknut ⅜-24 Thd.	
51	736-219		Belleville Washer .40 I.D. x 1.130 O.D. x .03	
52	10949		Spring Lever Ass'y. w/Red Knob	
53	736-105		Belleville Washer	
54	10937		Wheel Pivot Bar	
55	11236		Wheel Brkt. Ass'y.—R.H.	
56	736-329		Spring Lockwasher ¼" Scr.*	
57	712-287		Hex Nut ¼-20 Thd.*	
~~58~~	~~9164~~		~~Reinforcement Plate~~	
59	736-119		Spring Lockwasher 5/16" Scr.*	
60	712-267		Hex Nut 5/16-18" Thd.*	
61	11945		34" Idler Bracket	
62	754-184		"V"-Belt ½ x 52.0" Lg.	
63	712-242		Hex Jam Nut ⅝-11" Thd.	
64	756-118		Pulley .75" I.D. x 4.75" Dia.	
65	710-344		Hex Scr. ⅜-16 x 1.50" Lg.*	
66	11934		34" Rear Deck Brkt. Ass'y.	
67	736-160		Flat Washer .531" I.D. x .940" O.D. x .050	
68	714-101		Internal Cotter Pin ½" Dia.	
69	756-118		Pulley .75" I.D. x 4.75" Dia.	
70	754-180		"V"-Belt 21/32 x 54.0" Lg.	
71	~~732-279~~		Belt Guard Sprng	
72	~~12087~~		Right Angle Gear Box (See Breakdown on page	
73	714-388		#61 Hi Pro Key 3/16 x ⅝" Dia.	
74	11950		Mounting Bracket	
75	736-148		External Lockwasher ⅜" Scr.*	
76	712-798		Hex Nut ⅜-16 Thd.*	
77	710-253		Hex Scr. ⅜-16 x 1.00" Lg.*	
78	736-300		Flat Washer .390" I.D. x .880 O.D. x .06	
79	736-158		Spring Lockwasher ⅝ Thd.*	
80	736-231		Flat Washer .344" I.D. x 1.250" O.D. x .125	
81	710-538		Hex Scr. 5/16-18 x .62" Lg. Special Special	
82	12036		Spindle Assy.—Comp.	
83	11987		Belt Guard Cover (one for each deck pulley)	
84	710-377		Hex Sems Scr. ¼-20 x .62" Lg.*	
85	736-329		Spring Lockwasher ¼" Scr.*	
86	712-287		Hex Nut ¼-20 Thd.*	

87 736-162 .635 ID x .93 OD x 11ga. .1196 gauge

*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.



TRANSAXLE MODEL 1217

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 It Fast In The 'Yellow Pages'

PEERLESS MODEL 1217

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 1217

REF. NO.	PART NO.	DESCRIPTION
1	PE-784095	Lever & Housing Ass'y. Shift (Incl. Nos. 2 thru 7)
2	PE-792016	Ring, Snap
3	PE-792001	Ring, Quad
4	PE-792049	Pin, Drive
5	PE-784088	Housing, Shift Lever
6	PE-784094	Keeper, Shift Lever
7	PE-784096	Lever, Shift
8	PE-784056	Rod Ass'y., Shift (Incl. Nos. 9 thru 12)
9	PE-792003	Spring
10	PE-792004	Ball, Steel
11	PE-784004	Fork, Shifter
12	PE-784057	Rod, Shifter
13	PE-784054	Rod Ass'y., Shift (Inc. Nos. 9, 10, 11, 14 & 55)
14	PE-784055	Rod, Shifter
15	PE-774282	Axle, R.H.
15A	PE-774281	Axle, L.H.
16	PE-780042	Washer, Thrust
17	PE-792020	Scr., Hex Hd. Cap., ¼-20 x 2¼
18	PE-792006	Lockwasher, ¼"
19	PE-778033A	Gear, Ring
20	PE-786019	Pin, Drive
21	PE-786027	Block, Drive
22	PE-778014	Pinion, Bevel
23	PE-776156	Pinion & Bushing Ass'y., Idler
25	PE-776014	Shaft & Bearing Ass'y., Shifter (Incl. No. 26)
26	PE-780018	Bearing
27	PE-778037	Gear, Idler
28	PE-776032	Shaft, Idler
29	PE-784074	Stop, Shifter
30	PE-788026	Gasket, Case to Cover
31	PE-788003	Gasket, Shift Lever Housing
32	PE-778019	Gear, Shifting
33	PE-778020	Gear, Shifting
34	PE-778021	Gear, Spur (26 Teeth)
35	PE-786014	Spacer
36	PE-778022	Gear, Spur (22 Teeth)
37	PE-786015	Spacer
38	PE-778023	Gear, Spur (16 Teeth)
39	PE-776067	Shaft, Input
40	PE-778024	Spur Gear, Input Shaft
41	PE-780001	Washer
42	PE-786017	Spacer
43	PE-778036	Gear, Output
44	PE-778041	Pinion, Output
45	PE-788008	Seal, Oil
46	PE-782051	Housing & Bushing Ass'y., Axle (Incl. No. 51)
46A	PE-782052	Housing & Bushing Ass'y., Axle (Incl. No. 51)
47	PE-772072	Cover Ass'y., Transaxle (Incl. Nos. 57 & 58)
48	PE-770033	Case Ass'y., Transaxle (Incl. Nos. 56 & 57)
49	PE-792007	Scr., Socket Hd. Cap, ¼-20 x ¾
50	PE-786026	Pin, Dowel
51	PE-780054	Bushing
52	PE-792010	Plug, Pipe
53	PE-778039	Gear, Bevel
54	PE-792018	Ring, Snap
55	PE-792017	Ring, Snap
56	PE-780011	Bearing
57	PE-780013	Bearing
58	PE-780055	Bearing
60	PE-788009	Seal, Oil
64	PE-776008	Shaft, Reverse Idler
65	PE-786008	Spacer, Reverse Idler
66	PE-778016	Idler, Reverse
68	PE-780107	Washer
69	PE-774029	Carrier, Differential
70	PE-774028	Carrier, Differential

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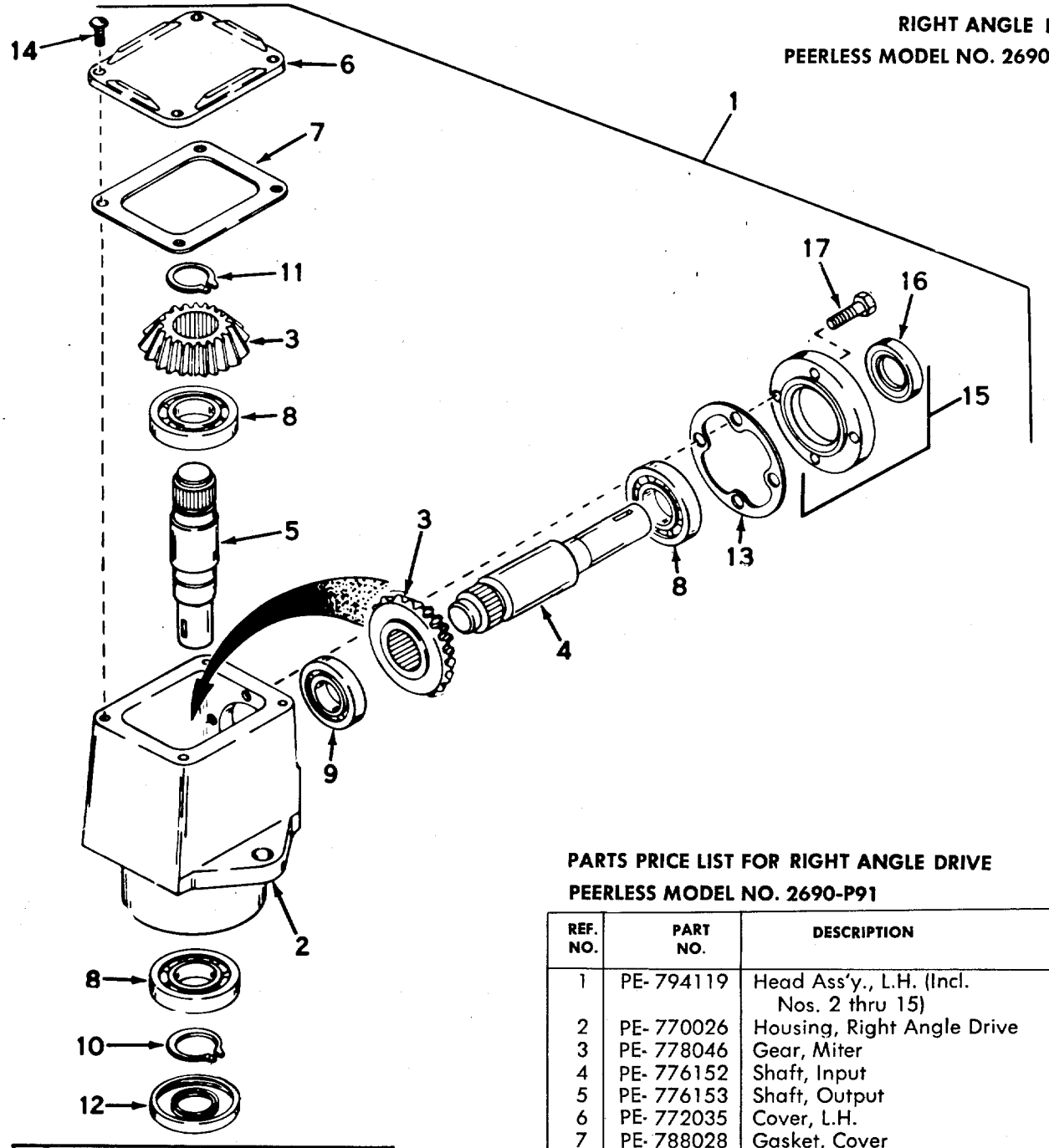
RIGHT ANGLE DRIVE
PEERLESS MODEL NO. 2690-P91



PARTS PRICE LIST FOR RIGHT ANGLE DRIVE
PEERLESS MODEL NO. 2690-P91

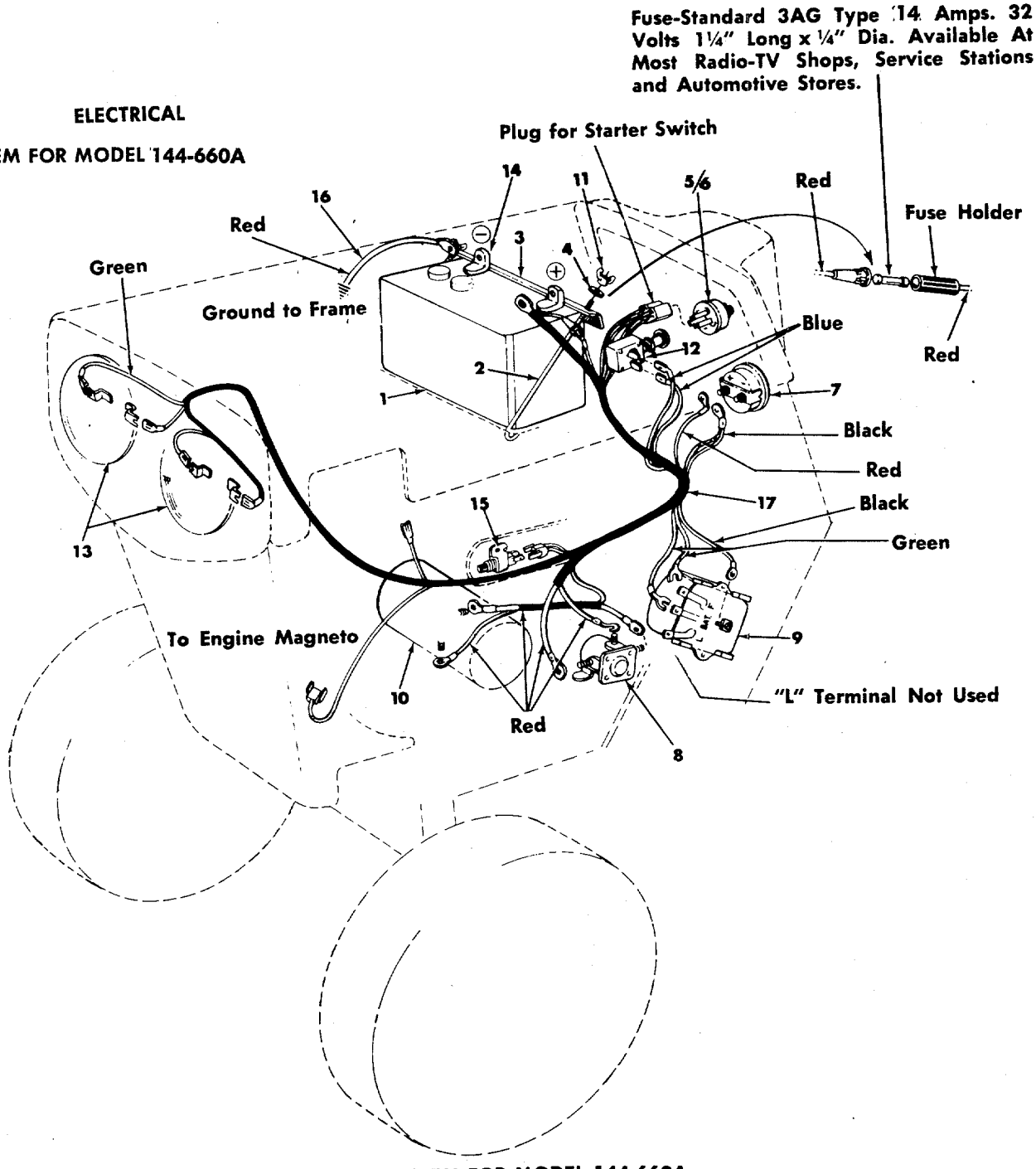
REF. NO.	PART NO.	DESCRIPTION
1	PE-794119	Head Ass'y., L.H. (Incl. Nos. 2 thru 15)
2	PE-770026	Housing, Right Angle Drive
3	PE-778046	Gear, Miter
4	PE-776152	Shaft, Input
5	PE-776153	Shaft, Output
6	PE-772035	Cover, L.H.
7	PE-788028	Gasket, Cover
8	PE-780034	Bearing, Ball
9	PE-780024	Bearing, Ball
10	PE-788019	Ring, Snap
11	PE-788018	Ring, Snap
12	PE-788029	Seal, Oil
13	PE-788030	Gasket, Cap
14	PE-792025	Scr., Rd. Hd. Self Tap 10-24 x ½
15	PE-786029	Cap & Seal Assy., Retainer (Incl. Nos. 16 & 17)
16	PE-788031	Seal, Oil
17	PE-792043	Scr., Hex Hd. ¼-20 x 1

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.

PEERLESS MODEL NO. 2690-P91

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lausen Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

ELECTRICAL SYSTEM FOR MODEL 144-660A

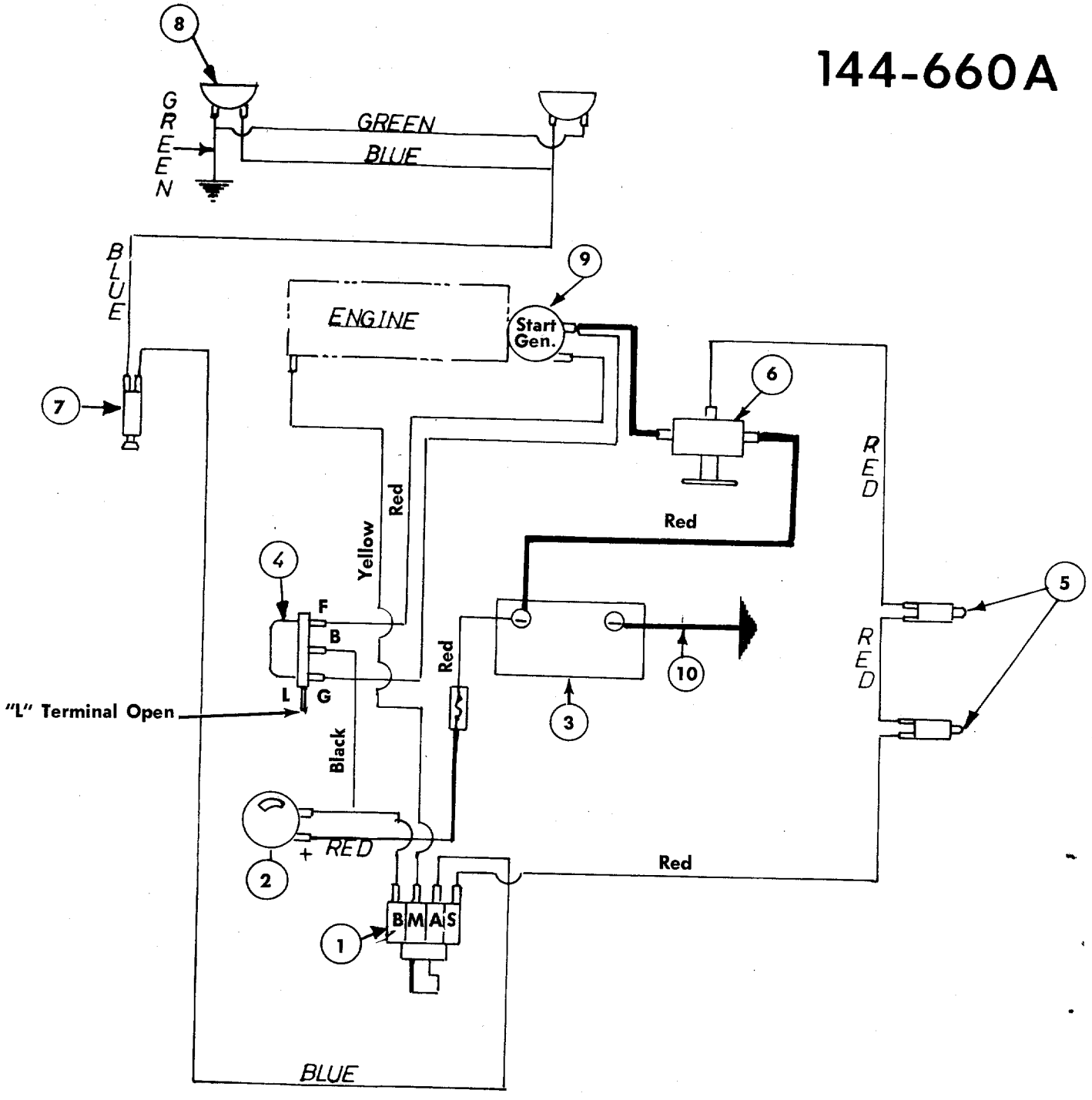


PARTS LIST ELECTRICAL SYSTEM FOR MODEL 144-660A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-117		Battery 12 Volt with Acid Pack	
2	711-284		Battery Hold Down Stud	
3	11770		Battery Hold Down Plate	
4	736-142		Flat Washer .281 I.D. x .50 O.D. x .063	
5	725-267		Starter Switch	
6	725-201		Starter Key	
7	725-119		Ammeter	
8	725-270		Solenoid	
9	725-390		Voltage Regulator	
10	725-143		Delco Starter Generator	
11	712-109		Inserted Wing Lock Nut ¼-20 Thd.	
12	725-202		Headlight Switch	
13	725-222		Headlight	
14	710-258		Hex Scr. ¼-20 x ⅝" Lg.* (2-Req'd.)	
	712-287		Hex Nut ¼-20 Thd.* (2-Req'd.)	
	736-329		Spring Lockwasher ¼" Scr.* (2-Req'd.)	
15	725-268		Safety Switch	
16	725-122		Electric Wire 7.25" Lg.	
17	725-356		Wiring Harness	

*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.

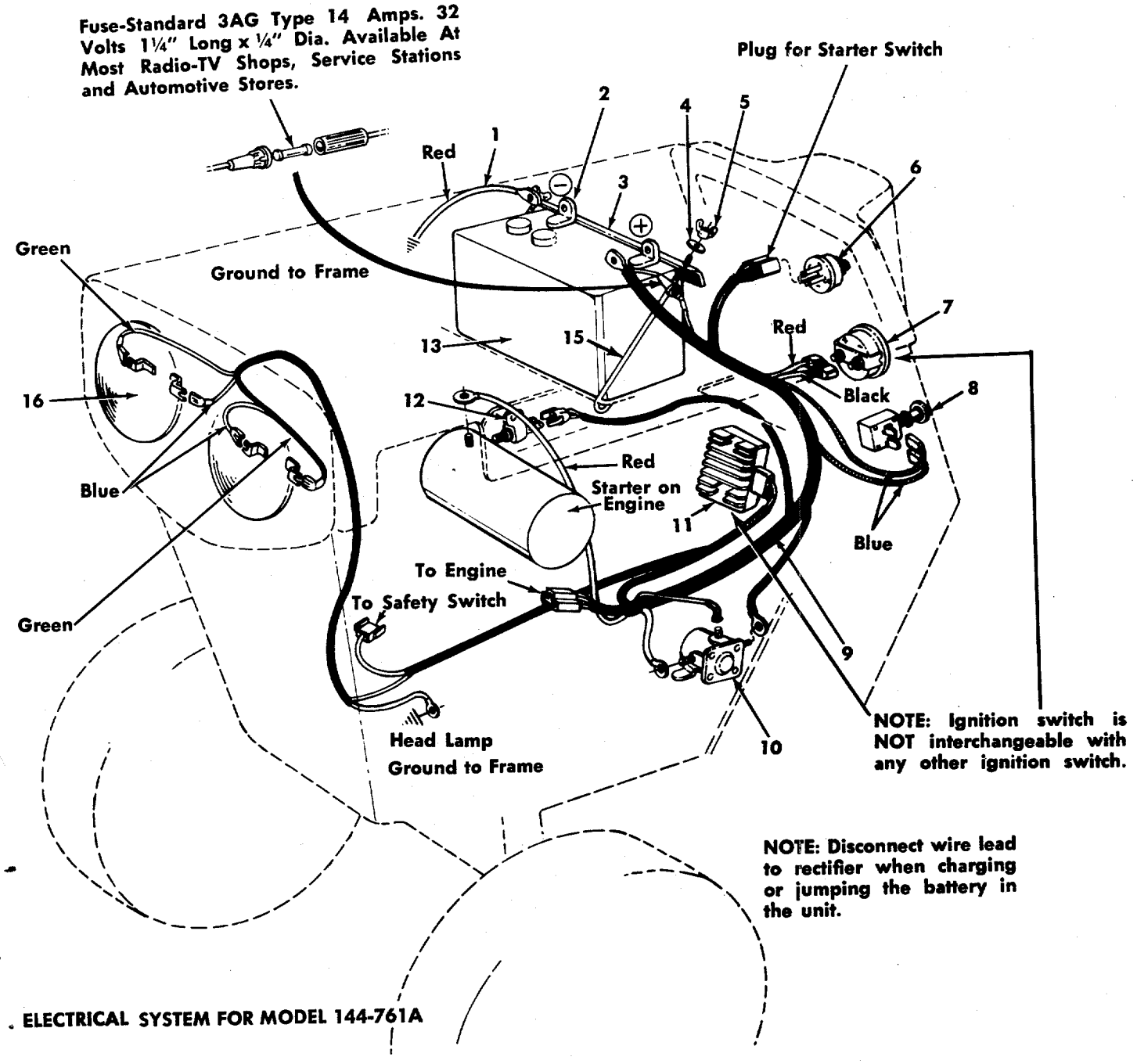
144-660A



PARTS LIST FOR SCHEMATIC MODEL 144-660A

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-267	Ignition Switch	
	725-201	Ignition Key	
2	725-119	Ammeter	
3	725-117	Battery	
4	725-390	Voltage Regulator	
5	725-268	Safety Switch	
6	725-270	Solenoid	
7	725-202	Light Switch	
8	725-222	Headlight	
9	725-143	Starter-Gen	
10	725-122	Electric Wire	
11	725-356	Wiring Harness	

Tecumseh



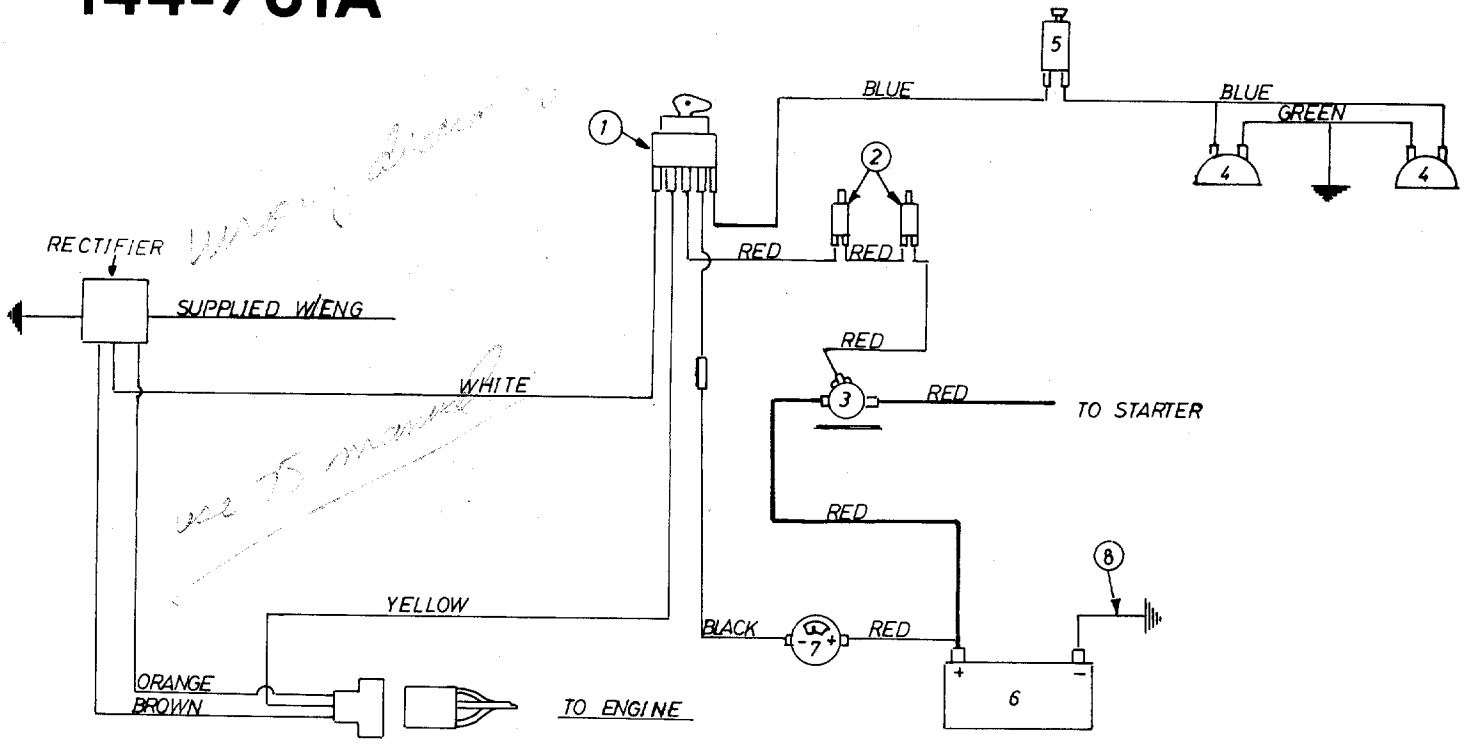
ELECTRICAL SYSTEM FOR MODEL 144-761A

PARTS LIST FOR ELECTRICAL SYSTEM FOR MODEL 144-761A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	725-122		Wire 7.25" Lg.	
2	710-258		Hex Scr. ¼-20 x ⅝" Lg.* (2-Req'd.)	
	712-287		Hex Nut ¼-20 Thd.* (2-Req'd.)	
	736-329		Spring Lockwashers ¼" Scr. (2-Req'd.)	
3	11770		Battery Hold Down Plate	
4	736-142		Flat Washer .281 I.D. x .50 O.D. x .063	
5	712-109		Inserted Wing Locknut ¼-20 Thd.	
6	725-380		Starter Switch	
7	725-119		Ammeter	
8	725-202		Light Switch	
9	725-355		Wiring Harness	
10	725-270		Solenoid	
11	—		Rectifier (Replacements to be ordered from your local Tecumseh dealer)	
12	725-268		Safety Switch	
13	725-117		Battery 12 Volt with Acid Pack	
14	725-201		Starter Key (Not Shown)	
15	725-284		Battery Hold Down Stud	
16	725-222		Headlight	

*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.

144-672A
144-760A
144-761A



PARTS LIST FOR SCHEMATIC MODEL 144-672A, 144-760A AND ~~144-761A~~

REF. NO.	PART NO.	DESCRIPTION	NEW PART
1	725-267	Ignition Switch	
2	725-268	Safety Switch—Black Plunger	
3	725-270	Solenoid	
4	725-222	Headlight	
5	725-202	Light Switch	
6	725-117	Battery	
7	725-119	Ammeter	
8	725-122	Single Wire	
9	725-433	Wire Harness (761A)	
		Wire Harness (672A and 760A)	N
10	725-201	Ignition Key	

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

ALABAMA

Birmingham
Southern Bty.
Yocam Batteries

Mobile
Yocam Batteries

Montgomery
Ebco Battery

ALASKA

Anchorage
Alaska Husky Bty.

ARKANSAS

Hot Springs
Red Diamond Bty.

CALIFORNIA

Los Angeles
Estee Battery
Laher Bty. Prod.

Oakland
Laher Bty Prod

Sacramento
Laher Bty. Prod.

San Francisco
Amp King Bty.
Laher Bty. Prod.
Pico Bty. Mfg.

Stockton
Stockton Battery

COLORADO

Denver
Moore Battery

D. C.
Washington
Express Bty. Div.
Leeth Brothers

FLORIDA

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

GEORGIA

Albany
Ebco Battery

Atlanta
Ebco Battery
Southern Bty.
Yocam Batteries

Columbus
Ebco Battery
Contract Bty. Mfg.
Yocam Batteries

ILLINOIS

Belleville
Bell City Bty. Mfg.

Chicago
Illinois Bty. Mfg.
Universal Bty.
Volta Bty. Corp.

Peoria
Red Diamond Bty.

INDIANA

Muncie
Stout Storage Bty.

IOWA

Corydon
Voltmaster

Council Bluffs
Reliance Bty. Prod.

Des Moines
Voltmaster

KANSAS

Kansas City
American Batteries
Contract Bty. Mfg.

KENTUCKY

Whitesburg
Electro-Lite Bty.

LOUISIANA

New Orleans
Central Bty.
Reliable Bty.

Shreveport
Central Bty.

MARYLAND

Baltimore
East Penn Mfg.

MASSACHUSETTS

Watertown
Atlantic Bty.

MICHIGAN

Detroit
Batteries Mfg.

Flint
ABC Batteries

Holly
Detroit Battery

Madison Heights
C & W Lektra

Warren
G & M Battery

MINNESOTA

St. Paul
Standard Storage Bty.

MISSISSIPPI

Florence
Contract Bty. Mfg.

Jackson
Central Bty.

New Albany
Laher Bty. Prod.

MISSOURI

Joplin
Lead Products

Maryland Heights
Electro Bty. Mfg.

Sikeston
Electro Bty.

NEW JERSEY

Atlantic City
Landis Battery

NEW MEXICO

Alburquerque
Sandia Bty. Mfg.

NEW YORK

Buffalo
East Penn Mfg.

Lockport
Great Lakes Battery

NORTH CAROLINA

Charlotte
Yocam Batteries

Thomasville
East Penn Mfg.

OHIO

Akron
Crown Battery

Cincinnati
Moore Battery

Cleveland
Crown Battery
New Castle Bty.

Columbus
Crown Battery

Fremont
Crown Battery

OREGON

Beaverton
Western Bty., Inc.

Portland
Laher Bty. Prod.

PENNSYLVANIA

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.

RHODE ISLAND

Providence
Pilof Mfg., Inc.

SOUTH CAROLINA

Columbia
Yocam Batteries

TENNESSEE

Chattanooga
Electro-Lite Bty.

Knoxville
Southern Bty.

Memphis
Central Battery
Laher Bty. Prod.
Southern Bty.

Nashville
Electro-Lite Bty.
Southern Bty.

TEXAS

Dallas
Continental Bty.
Reliable Battery

El Paso
El Paso Bty.

Houston
Texford Bty. Co.
Reliable Battery

San Antonio
Reliable Battery

UTAH

Salt Lake City
Laher Bty. Prod.

VIRGINIA

Arlington
Express Bty. Div
Leeth Bros.

Lynchburg
Hydrate Batter

WASHINGTON

Seattle
Laher Bty. Prod.

Spokane
Laher Bty. Prod.

CANADA

Vancouver, B. C.
Industrial Bty. &
Supply

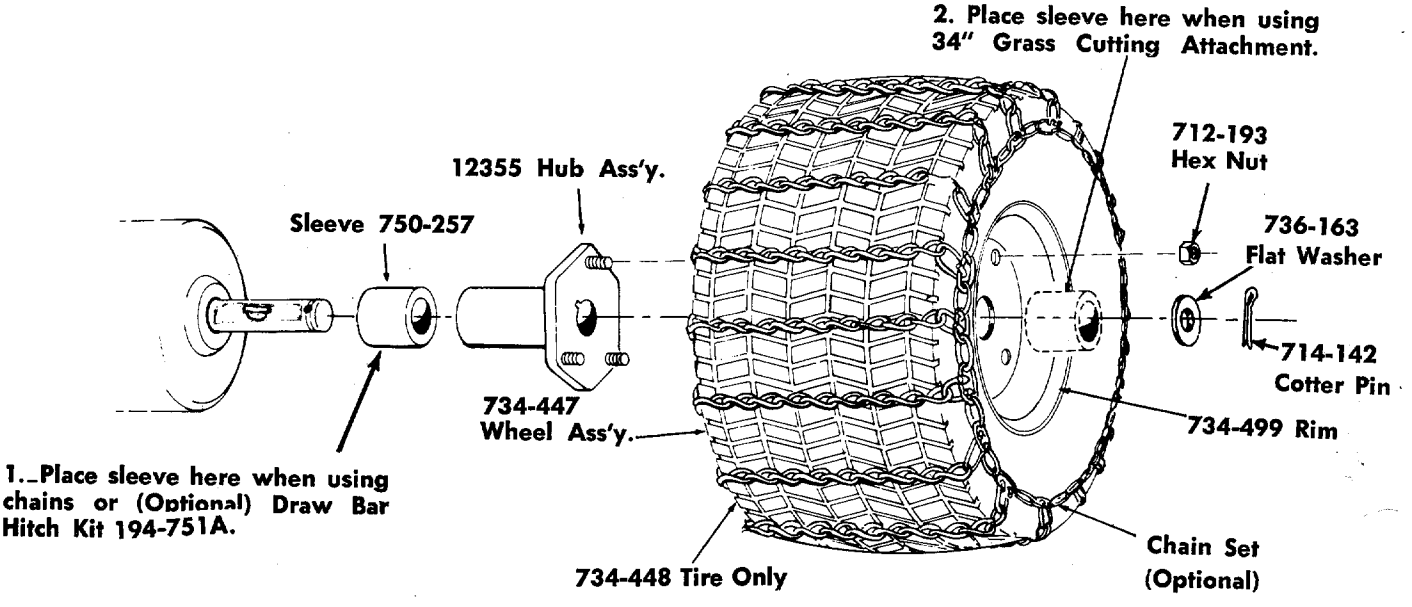
WHEEL CHART FOR MODEL 144-660A AND 144-672A

Front Wheel			Rear Wheel		
PART NO.	DESCRIPTION	NEW PART	PART NO.	DESCRIPTION	NEW PART
734-649	Wheel Ass'y. Comp. 13x 6.5	N	734-447	Wheel Ass'y. Comp. 18 x 9.50	
734-650	Tire Only Tubeless 13 x 6.5	N	734-448	Tire Only Tubeless 18 x 9.50	
734-499	Rim Only with Hub		734-449	Rim Only	
734-255	Air Valve		12355	Hub Ass'y.	N
748-184	Flange Bearing		—	Bearing Part of Transaxle	
—	Hub—Part of Rim		734-255	Air Valve	

WHEEL CHART FOR MODEL 144-760A AND 144-761A

Front Wheel			Rear Wheel		
PART NO.	DESCRIPTION	NEW PART	PART NO.	DESCRIPTION	NEW PART
734-497	Wheel Ass'y. Comp. 15 x 6.00		734-505	Wheel Ass'y. Comp. 20 x 8.50	
734-498	Tire Only Tubeless 15 x 6.00		734-506	Tire Only Tubeless 20 x 8.50	
734-499	Rim Only with Hub		734-507	Rim Only	
734-255	Air Valve		11942	Hub Ass'y.	
748-184	Flange Bearing		—	Bearing Part of Transaxle	
—	Hub—Part of Rim		734-255	Air Valve	

144-660A
144-672A



PARTS INFORMATION

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

MOWER, TILLER, SNOW THROWER, TRACTOR, TRAIL BIKE AND MUD BUG PARTS

Mower, tiller, snow thrower, tractor, trail bike and mud bug parts 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.

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.

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

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 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

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

Charles B. Wright Co.
309 4th Avenue, South
Nashville, Tennessee 37201

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

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

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

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

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

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

The Lawnmower Shop
1340 El Camino Real
San Carlos, California 94070

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa Oklahoma 74120

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

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

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

National Central, Div. of
Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

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

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

Parts & Sales Inc.
335 West St. Charles Rd.
Villa Park, Illinois 60181

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

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

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

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

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

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in material and workmanship, defects which are not detected at the time of manufacture.

Our aim is to build into our product quality and reliability. Considerable emphasis is placed on quality control in order to assure our customer of satisfactory product performance. To achieve this goal, it is necessary to gain the cooperation of all concerned, MTD, our sales force and our customers.

MTD's responsibility is to build a quality product and to back up that product. MTD must build this quality product at a competitive price. This cannot be achieved without production in quantity. Quantity production is mass production. In mass production it is always possible for undetected defects to be present when the product reaches the customer. Our warranty is extended to assure the customer that any such defects will be corrected.

Use and maintenance are the responsibility of the customer. MTD cannot assume responsibility for conditions over which it has no control. MTD's responsibility does not cover misuse, excessive use, accident neglect, improper maintenance or alterations by unauthorized persons. Satisfactory product performance can only result when a manufacturer provides and backs up a quality product and the customer follows through with proper use and proper maintenance of that product. When both the manufacturer and the customer recognizes and assumes his responsibility, satisfactory product performance and customer satisfaction are assured.