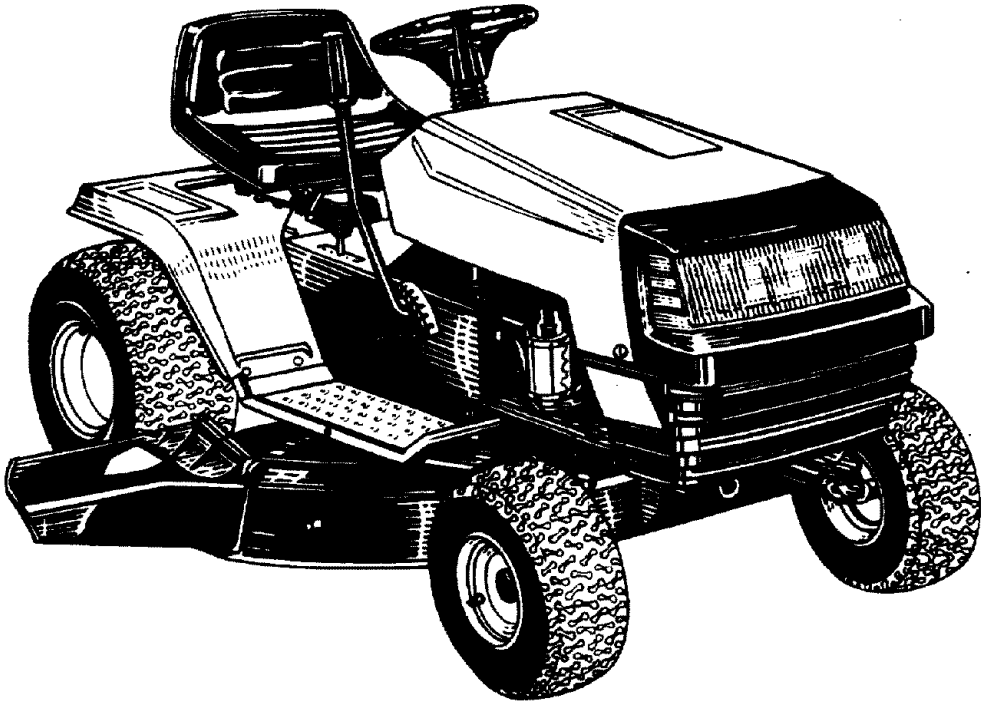
42" Lawn Tractors

# Operating Manual

Model Nos. TMO-3100002
TMO-3395309



Model TMO-3395309 Shown

Montgomery Ward

# INDEX



*Dear Customer,*

*So often throughout the year we are all in a rush to meet our daily obligations.*

*However, we at Montgomery Ward are taking a quick moment out to say...*

**"Thank you for your business."**

*Sincerely,*
MONTGOMERY WARD

**INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.**

**NOTICE: A data plate with the model number and serial numbers of your unit is located on the frame, under the seat. Record these numbers in the spaces provided on the back cover of this guide.**

## BEFORE YOU CALL SERVICE

Check Spark Plug Wire
- Firmly attached?
- Wire terminal clean?

Check Crankcase Oil Level
- Overfilled/underfilled?

Check Fuel Tank
- Fuel in tank?
- Fuel dirty or stale?
- If tank has been empty for a long period, fill tank completely.

Check Air Cleaner
- Clean?
- Choke plate stuck?
- Governor spring free to move?

Check under Blade Housing **(Disconnect Spark Plug First)**
- Blade obstructed or bent?

Check Starting Instructions
- Read instruction manuals and labels for specific instructions.

**WARNING:** This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service center or contact the parts sales center of Montgomery Ward.

# IMPORTANT SAFE OPERATION PRACTICES

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR UNIT. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**

**DANGER:** **This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.**

## I. GENERAL OPERATION

1. Read, understand, and follow all instructions in the manual and on the machine before starting. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. Only allow responsible adults familiar with the instructions to operate the machine. Know controls and how to stop the machine quickly.
3. Do not put hands or feet under cutting deck or near rotating parts.
4. Clear the area of objects such as rocks, toys, wire, etc. which could be picked up and thrown by the blade. A small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury to you or a bystander. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects. Stop the blade(s) when crossing gravel drives, walks or roads.
5. Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
6. Never carry passengers.
7. Disengage blade(s) before shifting into reverse and backing up. Always look down and behind before and while backing.
8. Be aware of the mower and attachment discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the chute guard in place.
9. Slow down before turning. Operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Never leave a running machine unattended. Always turn off blade(s), place transmission in neutral, set park brake, stop engine and remove key before dismounting.
11. Turn off blade(s) when not mowing.
12. Stop engine and wait until blade(s) comes to a complete stop before (a) removing grass catcher or unclogging chute, or (b) making any repairs, adjusting or removing any grass or debris.
13. Mow only in daylight or good artificial light.
14. Do not operate the machine while under the influence of alcohol or drugs.
15. Watch for traffic when operating near or crossing roadways.
16. Use extra care when loading or unloading the machine into a trailer or truck. This unit should not be driven up or down a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load or unload properly.
17. Never make a cutting height adjustment while engine is running if operator must dismount to do so.
18. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts. Do not wear loose fitting clothes or jewelry. They can be caught in moving parts. Never operate a unit in bare feet, sandals, or sneakers.
19. Check overhead clearance carefully before driving under power lines, wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
20. Disengage all attachment clutches, thoroughly depress the brake pedal, and shift into neutral before attempting to start engine.

## II. SLOPE OPERATION

Slopes are a major factor related to loss of control and tip-over accidents which can result in severe injury or death. **All** slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

**DO:**

Mow up and down slopes, not across.
Remove obstacles such as rocks, limbs, etc.
Watch for holes, ruts or bumps. Uneven terrain could overturn the machine. **Tall grass can hide obstacles.**
Use slow speed. Choose a low enough gear so that you will not have to stop or shift while on the slope. Always keep tractor in gear when going down slopes to take advantage of engine braking action.
Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
Use extra care with grass catchers or other attachments. These can change the stability of the machine.
Keep all movement on the slopes **slow** and **gradual.** Do not make sudden changes in speed or direction. Rapid engagement or braking could cause the front of the machine to lift and rapidly flip over backwards which could cause serious injury.
Avoid starting or stopping on a slope. If tires lose traction, disengage the blade(s) and proceed slowly **straight** down the slope.
For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15° as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

**DO NOT:**

**Do not** turn on slopes unless necessary; then, turn slowly and gradually downhill, if possible.
**Do not** mow near drop-offs, ditches or embankments. A wheel over the edge or an edge caving in could cause sudden overturn.
**Do not** mow on wet grass. Reduced traction could cause sliding.
**Do not** try to stabilize the machine by putting your foot on the ground.
**Do not** use grass catcher on steep slopes.

## III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. **Never** assume that children will remain where you last saw them.

1. Keep children out of the mowing area and in watchful care of an adult other than the operator.
2. Be alert and turn machine off if children enter the area.
3. Before and when backing, look behind and **down** for small children.
4. Never carry children. They may fall off and be seriously injured or interfere with the safe machine operation.
5. Never allow children under 14 years old to operate the machine. Children 14 years and over should only operate machine under close parental supervision and proper instruction.
6. Use extra care when approaching blind corners, shrubs, trees or other objects that may obscure vision.

**IV. SERVICE**

1. Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
   a. Use only an approved container.
   b. Never remove gas cap or add fuel with the engine running. Allow engine to cool at least two minutes before refueling. Do not smoke.
   c. Never refuel the machine indoors.
   d. Never store the machine or fuel container inside where there is an open flame, or spark, such as a water heater, space heater, clothes dryer and the like.
2. Never run a machine inside a closed area.
3. Check frequently and keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in safe working condition.
4. Never tamper with safety devices. Check their proper operation regularly. Use all guards as instructed in this manual.
5. To reduce fire hazard, keep machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage. Allow machine to cool before storing.
6. Stop and inspect the equipment for damage if you strike an object. Repair, if necessary, before re-starting and operating the machine.
7. Never make adjustments or repairs with the engine running.
8. Grass catcher components are subject to wear, damage and deteriorate, which could expose moving parts or allow objects to be thrown. Frequently, check components and replace with manufacturer's recommended parts when necessary.
9. Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves and use extra caution when servicing blade(s).
10. Check brake operation frequently. Adjust and service as required.
11. Muffler, engine, and belt guards become hot during operation and can cause a burn. Allow to cool down before touching.
12. Do not change the engine governor settings or overspeed the engine.

**DANGER: Your unit was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.**

# ASSEMBLY INSTRUCTIONS

**IMPORTANT: After assembly, service engine with gasoline, and check oil level as instructed in the separate engine manual packed with your unit.**

**NOTE: Reference to right or left hand side of the unit is observed from the driver's seat, facing forward.**

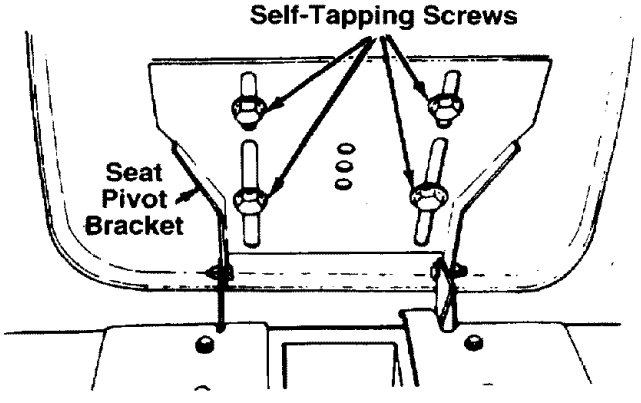



**FIGURE 1.**

## UNPACKING

1. Remove the lawn tractor from the carton as follows. Open the top flaps. The loose parts (include the battery fluid, steering wheel with steering cap attached and chute deflector) are on the seat and wrapped in plastic. Remove all carton inserts. Cut the front corners of the carton. Make certain brake is released, and push the unit out of the carton.
2. The seat has been mounted backward for shipping purposes. Carefully cut and remove the plastic wrap. Remove the loose parts from the seat.

## ASSEMBLING THE SEAT

Remove the hex self-tapping screws which secure the seat to the seat pivot bracket. Turn the seat around and place in position against the seat pivot bracket, lining up the slotted holes in the pivot bracket with the holes in the seat. Select desired position for the seat, and secure with hex self-tapping screws. See figure 1.

## BATTERY INFORMATION

**WARNING**

A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.*
B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.
C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
G. As a further precaution, only charge the battery in a well-ventilated area.

***Always shield eyes, protect skin and clothing when working near batteries.**

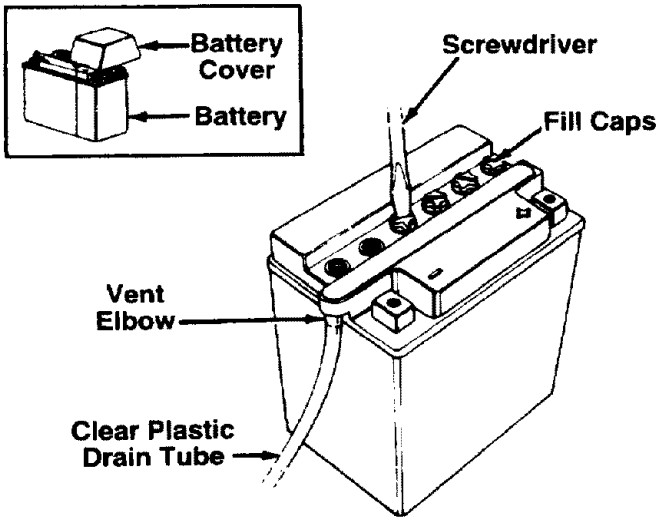



FIGURE 2.

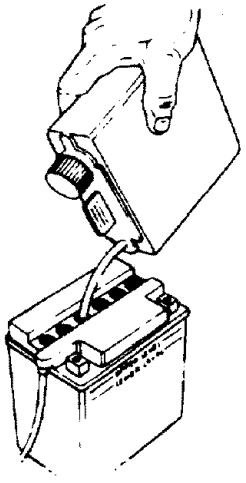


FIGURE 3.

**DANGER**

**Battery contains sulfuric acid. Refer to warning on page 4.** Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES: Flush with cool water for at least 15 minutes, then get prompt medical attention.

**Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away.** Be sure to charge battery only in well-ventilated areas. Make certain venting path of battery (drain tube) is always open.

KEEP BATTERIES
OUT OF THE REACH OF CHILDREN!

## ACTIVATING THE BATTERY

**Do not activate battery (fill with battery acid) until battery is actually placed in service. Be certain to read previous warnings before activating the battery.**

1. Lift the seat. Remove the battery cover by pressing in on the sides and lifting up. See figure 2 inset. Remove the battery from the rear frame.
2. Open the battery pack. Be careful not to puncture the box. It contains the battery fluid (acid) in a plastic container and one short plastic tube.
3. Place the battery on a table or workbench. Make certain the long plastic drain tube is in place on the vent elbow.
4. Remove the six fill caps from the top of the battery with a screwdriver. Be careful not to damage the fill caps. See figure 2.
5. Place the battery fluid container on the table or workbench. Carefully cut off tip of the spout and attach the short plastic tube provided. Do not squeeze the container when cutting tip.
6. Fill each battery cell slowly and carefully to the UPPER LEVEL line marked on battery. See figure 3. Use caution as the acid level will rise rapidly after the bottom of the cell is filled.
7. Allow battery to stand for 30 minutes with the fill caps removed, while the plates absorb acid.
8. If acid level has fallen after the 30 minute standing period, refill each cell with battery acid to the UPPER LEVEL line on battery. Replace the fill caps.
9. Before discarding the empty container, neutralize any residue with baking soda and rinse container with water. Puncture container several times before discarding.
10. **Charge the battery** after the 30 minute standing period. SLOW CHARGE THE BATTERY (DO NOT FAST CHARGE).

Charge the battery at a maximum bench rate of 2 amperes until the specific gravity reading is 1.265. Charge for a minimum of 3 hours and a maximum of 5 hours.

**NOTE:** This engine is equipped with an alternator. The current for the battery charger alternator is unregulated. During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

**After battery has been charged, add only distilled water. Do not add acid.**

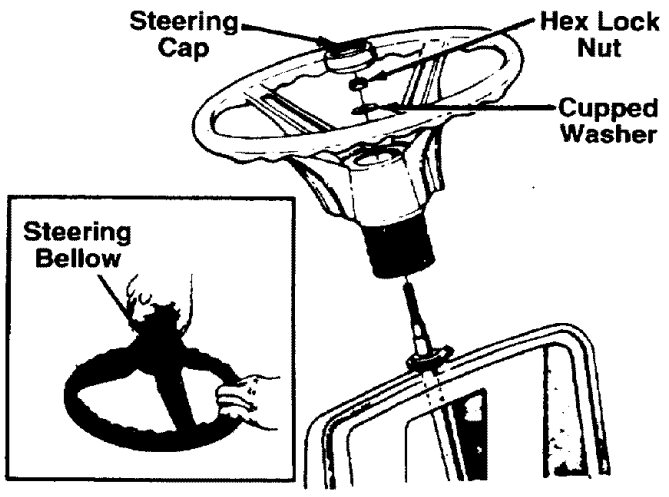



FIGURE 4.

## ATTACHING THE STEERING WHEEL

1. Remove the hex lock nut and cupped washer from the steering shaft, and remove the steering bellow. Pry the steering cap off the center of the steering wheel.
2. Attach one end of steering bellow to the steering wheel as shown in figure 4, inset.
3. Position the front wheels of the tractor so they are pointing straight forward.
4. Place the steering wheel and steering bellow over the steering shaft, positioning steering wheel as desired.
5. Place the washer with the cupped side down over the steering shaft. Secure with hex lock nut. See figure 4.
6. Place the steering cap over the center of the steering wheel and seat it with your hand.

## ATTACHING THE CHUTE DEFLECTOR

The chute deflector must be attached to the right side of the deck so that it covers the chute opening.

**WARNING: Do not operate your unit unless the chute deflector has been properly installed.**

1. Make certain deck is raised to its highest position (lift lever pulled all the way back).
2. Remove the truss machine screws, cupped washers and hex nuts which are attached to the deck next to the chute opening.
3. Place the chute deflector in position as shown in figure 5. Secure with hardware just removed. Cupped side of washers goes against the chute deflector.

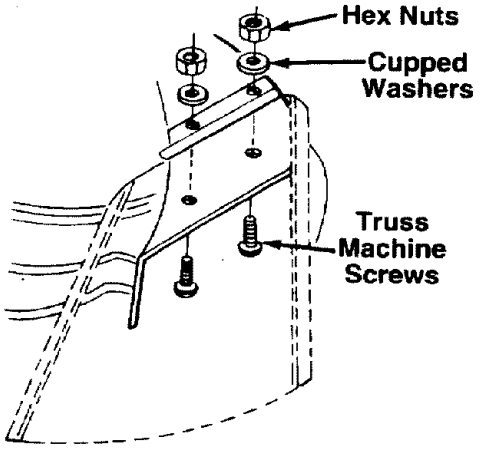



FIGURE 5.

## LEVELING THE DECK

With unit on hard, level surface, measure the distance from the bottom edge of the center of the left side of deck to the ground. Measure the same distance just behind the chute area on the right side of the deck. Or, place the blades in a straight line, and measure the distance from the outside edge of the blade tips to the ground.

If adjustment is needed, proceed as follows.

1. Remove the hairpin clip and flat washer from the bottom of the adjustable lift link on the left side of the deck. (Hairpin clip and flat washer are on the inside of the lift link.)
2. Pull the adjustable lift link out of the deck hanger channel. See figure 6.
3. Turn the adjustable lift link up or down as necessary to level the deck. Usually only one or two turns are needed.
4. Insert the end of the adjustable lift link into the hole in the deck hanger channel. Recheck the adjustment as instructed above. Readjust if necessary.
5. When deck is level, secure the end of the adjustable lift link with flat washer and hairpin clip.

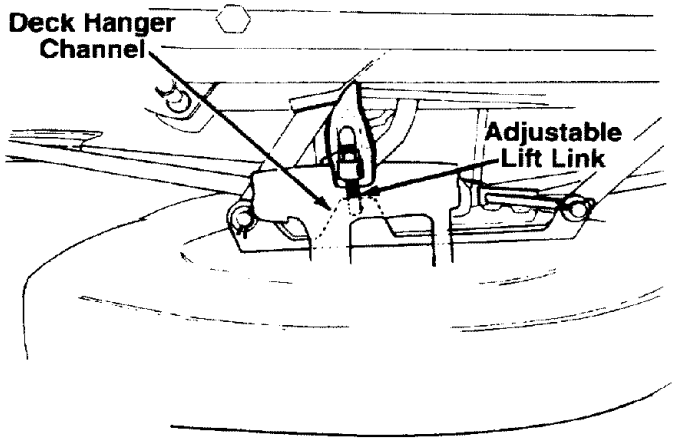



FIGURE 6.

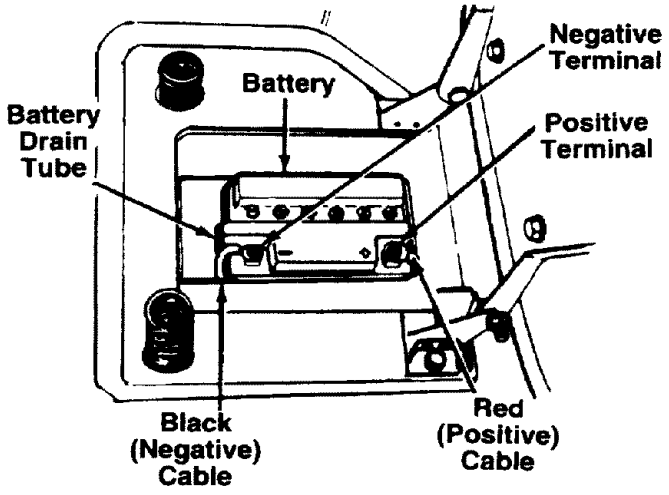



FIGURE 7.

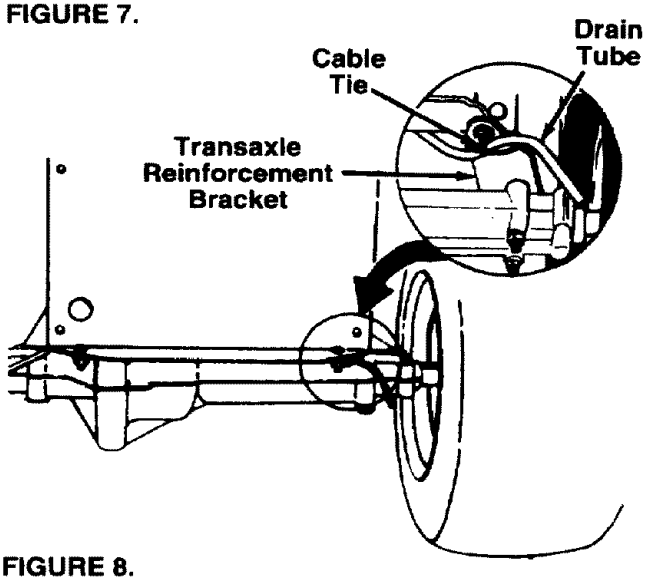



FIGURE 8.

## TIRE PRESSURE

The tires on your unit may be over-inflated for shipping purposes. Reduce the tire pressure before operating the unit. Recommended operating tire pressure is approximately 12 p.s.i. (check sidewall of tire for tire manufacturer's recommended pressure).

**WARNING: Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.**

## INSTALLING THE BATTERY

1. Raise the seat.
2. Make certain the positive cable (heavy red wire) and negative cable (heavy black wire) are routed outside the battery opening.
3. Place the battery inside the opening so that the positive terminal is toward the front of the unit. See figure 7. Route the battery drain tube down beside the battery.
4. Remove the hex bolt from the positive (+) terminal. Place the positive cable on the positive terminal. See figure 7. Secure with hex bolt. Be careful not to lose the nut inside the terminal.
5. Secure the negative cable to the negative (–) terminal in the same manner. Replace the battery cover over the positive terminal. Lower the seat.
6. Insert the drain tube through the cable tie which is attached to the transaxle reinforcement bracket on the **right** side of the unit. See figure 8. Be certain drain tube is routed away from the wheel rim. Pull on end of cable tie to tighten (do not collapse drain tube). Trim excess end of cable tie.

# CONTROLS

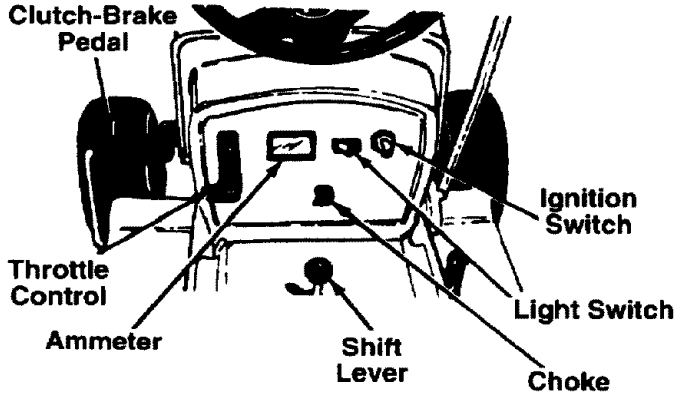



FIGURE 9.

## THROTTLE CONTROL

The throttle control is used to regulate the engine speed. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. See figure 9.

## CHOKE CONTROL

The choke control is located on the dashboard and is operated manually. Details for the choke operation are covered in the separate engine manual packed with your unit. See figure 9.

## SHIFT LEVER

The shift lever is located in the center of the console and has three positions, FORWARD, NEUTRAL and REVERSE. See figure 9. The clutch-brake pedal must be depressed and the lawn tractor must not be moving when shifting gears. Do not force the shift lever. Release the clutch-brake pedal slightly to line up the shifting collar in the transmission. Then try to shift gears.

## SPEED CONTROL LEVER

The speed control lever is located on the fender. See figure 10. The speed control lever allows you to regulate the ground speed of the lawn tractor. To select the ground speed, depress clutch pedal. Move speed

control lever out of the notches and backward to slow lawn tractor, forward to increase speed. When desired speed has been obtained, release lever in that position. Whenever clutch is engaged, unit will automatically go to the pre-set speed.

## IGNITION SWITCH

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. See figure 9.

## LIGHT SWITCH

Push the light switch to turn on the lights. The lights will only operate when the engine is running.

## AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter will register on the discharging side when starting the engine. It should register on the opposite side (charging) 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 9.

## CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the left side of the lawn tractor. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 9.

**NOTE:** *The clutch-brake pedal must be depressed to start the engine.*

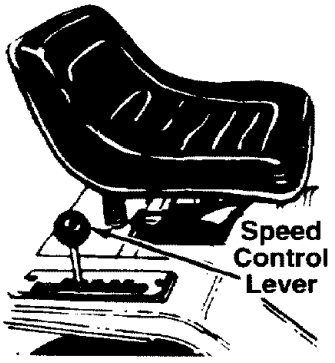



**FIGURE 10.**

## PARKING BRAKE

The speed control lever is used to set the parking brake. To set the parking brake, depress the clutch-brake pedal. Move the speed control lever out of the notches to desired position. Release the speed control lever and the clutch-brake pedal.

To release the parking brake, depress the clutch-brake pedal and move the speed control lever out of the notches to the desired position. Release the speed control lever and the clutch-brake pedal.

**NOTE:** *The parking brake must be set if the operator leaves the seat with the engine running.*

## INTERLOCKS (Not Shown)

Interlock safety switches are located by the clutch-brake pedal, the lift lever, the shift lever and under the seat.

Before the engine will start, the clutch-brake pedal must be depressed all the way and the lift lever must be in the disengaged position.

Before the unit can be shifted into reverse or if the operator leaves the seat, the lift lever must be in the disengaged position.

## CUTTING CONTROLS

### A. LIFT LEVER

The lift lever is used to raise and lower the cutting deck and to engage and disengage the blades. Pulling it all the way back and locking it disengages the blades.

**NOTE:** *The lift lever **must** be in the disengaged position when starting the engine, when shifting into reverse and if the operator leaves the seat. See figure 11.*

### B. DECK LIFT INDICATOR

The deck lift indicator marks the position being used for the lift lever. Select the lift lever position desired, press the indicator lever outward, move it to the position immediately below the lift lever and release the indicator lever. See figure 11.

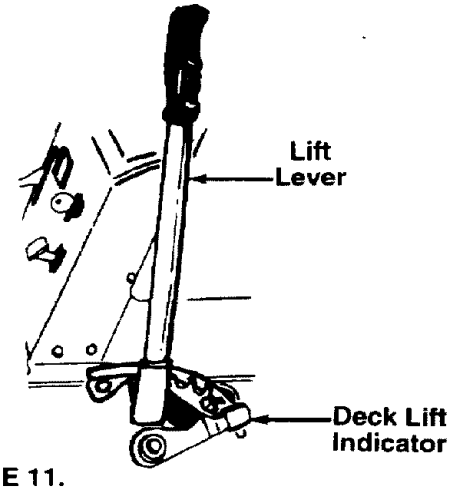



**FIGURE 11.**

### C. SETTING THE CUTTING HEIGHT

1. Select the position for the lift lever which gives the desired cutting height. Move the deck lift indicator so that the lift lever can be returned to the same position after it is raised.
2. Move the deck wheels to the hole location so the wheels are 1/4 to 1/2 inch above the ground.

# OPERATION

**WARNING**

AVOID SERIOUS INJURY OR DEATH

- GO UP AND DOWN SLOPES, NOT ACROSS. • AVOID SUDDEN TURNS.
- DO NOT OPERATE THE UNIT WHERE IT COULD SLIP OR TIP.
- IF MACHINE STOPS GOING UPHILL, STOP BLADE(S) AND BACK DOWNHILL SLOWLY.
- DO NOT MOW WHEN CHILDREN OR OTHERS ARE AROUND.
- NEVER CARRY CHILDREN.
- LOOK DOWN AND BEHIND BEFORE AND WHILE BACKING.
- KEEP SAFETY DEVICES (GUARDS, SHIELDS, AND SWITCHES) IN PLACE AND WORKING.
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE(S).
- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BE SURE BLADE(S) AND ENGINE ARE STOPPED BEFORE PLACING HANDS OR FEET NEAR BLADE(S).
- BEFORE LEAVING OPERATOR'S POSITION, DISENGAGE BLADE(S), PLACE THE SHIFT LEVER IN NEUTRAL, ENGAGE BRAKE LOCK, SHUT ENGINE OFF AND REMOVE KEY.

READ OPERATOR'S MANUAL

## GAS AND OIL FILL-UP

**Check oil level and add if necessary. Service the engine with gasoline as instructed in the separate engine manual packed with your tractor. Read instructions carefully.**

**IMPORTANT:** Your tractor is shipped with oil; however, you must check the oil level before operating. Be careful not to overfill.

**WARNING: Never fill fuel tank indoors, with engine running or while engine is hot.**

## STARTING THE ENGINE

1. Depress the clutch-brake pedal and set the parking brake.
2. Place the lift lever in the DISENGAGED position. See figure 11.

**IMPORTANT:** This unit is equipped with a **safety interlock system** for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the lift lever is in the disengaged position. In addition, the lift lever must be in the disengaged position when the unit is put into reverse or the engine will shut off. If the operator leaves the seat with the lift lever engaged and/or without setting the parking brake, the engine will shut off.

**WARNING: Do not operate the lawn tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.**

3. Set the throttle control in the FAST position. See figure 9.
4. Pull out choke knob to choke engine (a warm engine may not require choking).
5. Turn the ignition key to the START position. When the engine is running, let the key return to the ON position. See figure 9.
6. Push choke knob in gradually. Move the throttle control to desired engine speed.

## STOPPING THE ENGINE

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

**IMPORTANT:** If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

**NOTE:** *If any problems are encountered, refer to the Trouble Shooting Guide on page 18.*

## OPERATING THE LAWN TRACTOR

1. Set the desired cutting height.
2. Start the engine as instructed previously.
3. Move throttle control to 3/4 or full throttle to prevent strain on the engine and to operate the cutting blades.
4. Place the shift lever in either the FORWARD or REVERSE position.

**WARNING: Look to the rear before backing up.**

5. Release the parking brake by depressing the clutch-brake pedal, pressing outward on the speed control lever and moving to desired position. Use first speed position when operating the lawn tractor for the first time.
6. Release clutch-brake pedal slowly to put unit into motion.
7. The lawn tractor is brought to a stop by depressing the clutch-brake pedal.

**NOTE:** *When operating the unit initially, there will be little difference between the highest two speeds until after the belts have seated themselves into the pulleys during the break-in period.*

Be sure that the lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. For best results and to insure more even grass distribution, do not mow when lawn is excessively wet.

**WARNING: Before leaving the operator's position for any reason, disengage the blades, place the shift lever in neutral, engage the parking brake, shut engine off and remove the key.**

When stopping the unit to empty a grass bag, etc., follow the instructions above. This procedure will also eliminate "browning" the grass, which is caused by hot exhaust gases from a running engine.

**If unit stalls** with speed control in high speed, or if unit will not operate with speed control lever in a low speed position, proceed as follows.

1. Place shift lever in NEUTRAL.
2. Restart engine.
3. Place speed control lever in high speed position.
4. Release clutch-brake pedal fully.
5. Depress clutch-brake pedal.
6. Place speed control lever in desired position.
7. Place shift lever in either FORWARD or REVERSE, and follow normal operating procedures.

## OPERATING THE CUTTING BLADES

The cutting blades may be engaged while the lawn tractor 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: Keep feet and hands away from the discharge opening, the blades or any part of the deck. When the unit is used for other than mowing operations, the blade drive should be disengaged.**

Move the lift lever into the DISENGAGED position to raise the deck and disengage the blades.

## GRASS COLLECTOR AVAILABLE

GRASS COLLECTOR stock number 89-35111R is available as optional equipment for the lawn tractors shown in this manual.

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

**NOTE:** *Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations. For replacement bags, use only factory authorized replacement bag.*

# ADJUSTMENTS

## SEAT ADJUSTMENT

The seat may be adjusted to different positions. Refer to seat installation section of assembly instructions.

## DECK LEVELING ADJUSTMENT

If an uneven cut is obtained, the deck may be leveled by following instructions at end of assembly section.

## CUTTING DECK ENGAGEMENT ADJUSTMENT

The cutting deck engagement may be adjusted to make certain deck is disengaged when lift lever is in the disengaged position, or to obtain more drive in the cutting positions. Correct adjustment as follows.

With the engine off, place the lift lever in the highest cutting position (first position). Remove the cotter pin and flat washer which secure the disengagement rod to the stabilizer shaft assembly. Shorten the rod by threading it in until the ferrule is against the back of the slot in the lift shaft assembly, and the rod lines up with the hole in the stabilizer shaft. For more belt tension the disengagement rod must be lengthened. To decrease belt tension the disengagement rod must be shortened.

Check the adjustment by placing the lift lever in the disengaged position. The deck should move up and forward, allowing the belt to become loose. Start and test for disengagement. Repeat procedure as necessary.

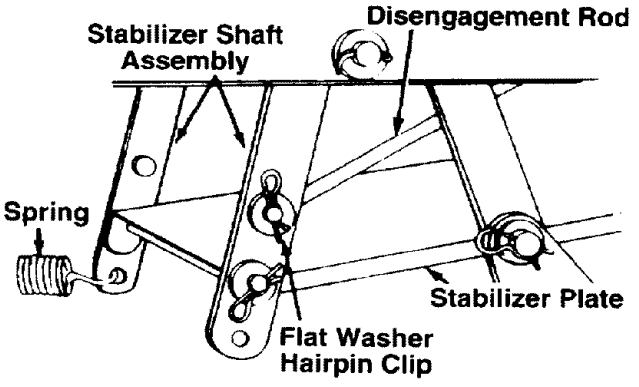



**FIGURE 12.**

## SPEED CONTROL ADJUSTMENT (See figure 13)

**NOTE:** *When operating the unit initially or after replacing the belts, there will be little difference between the highest two speeds until after the belts have gone through a break-in period and have seated themselves into the pulleys.*

If the full range of speeds cannot be obtained on your unit, adjust the speed control as follows.

1. Adjust the speed control lever by pushing the clutch-brake pedal forward until the stop on the brake rod is against the frame. See figure 13. Have another person hold the pedal in this position as you make the following adjustment. Place the speed control lever in parking brake position. Remove the hairpin clip and flat washer, and adjust the ferrule on the rod so it is against the back end of the slot. See figure 13. Then lengthen rod one more turn. Reassemble and secure with the flat washer and hairpin clip.
2. Adjust the speed control link as follows to obtain the correct neutral adjustment.
   A. Start the engine.
   B. Place the shift lever in Neutral position.
   C. Place the speed control lever in high speed position.
   D. Release the clutch-brake pedal completely, then slowly depress the pedal all the way (to park position). Hold the pedal in this position.
   E. Turn the engine off.
   F. After engine stops completely, release the clutch-brake pedal.
   G. Place speed control lever in second position.
   H. Remove the cotter pin and flat washer which secures the speed control link to the variable speed torque bracket assembly.
   I. Push the clutch-brake pedal backward by hand as far as it will go using light pressure. Hold it in this position as you thread the speed control link in or out of the ferrule until it lines up with the pin on the variable speed torque bracket assembly.
   J. Secure speed control link to variable speed torque bracket assembly with flat washer and cotter pin.

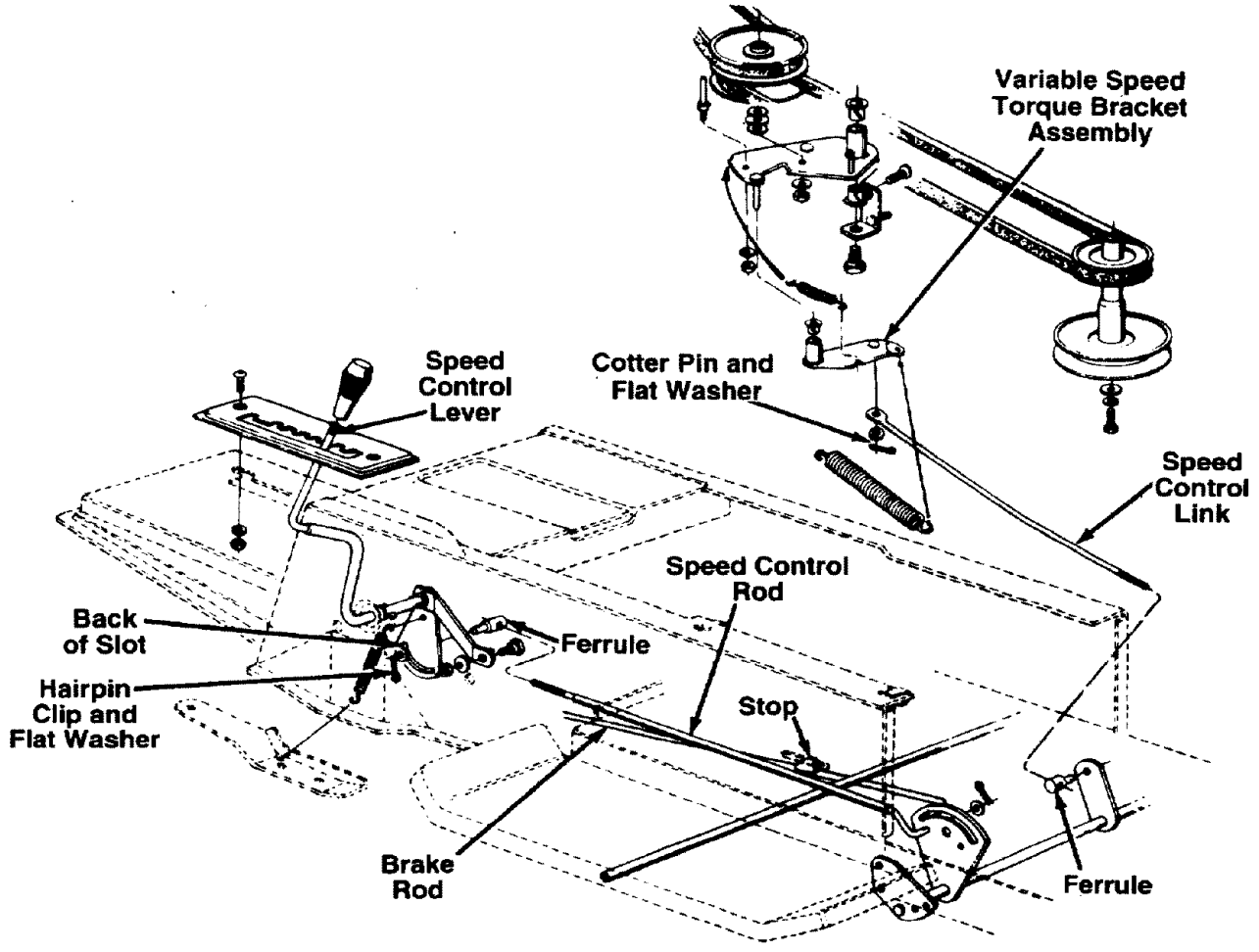



**FIGURE 13.**

## NEUTRAL ADJUSTMENT

1. Place the transmission in neutral. (The unit will move freely when pushed forward and backward with the parking brake released.)
2. Loosen the bolt which secures the shift lever assembly to the shift lever link. See figure 14.
3. Place the shift lever in the neutral slot. See figure 14.
4. Tighten the bolt to 13 foot pounds.

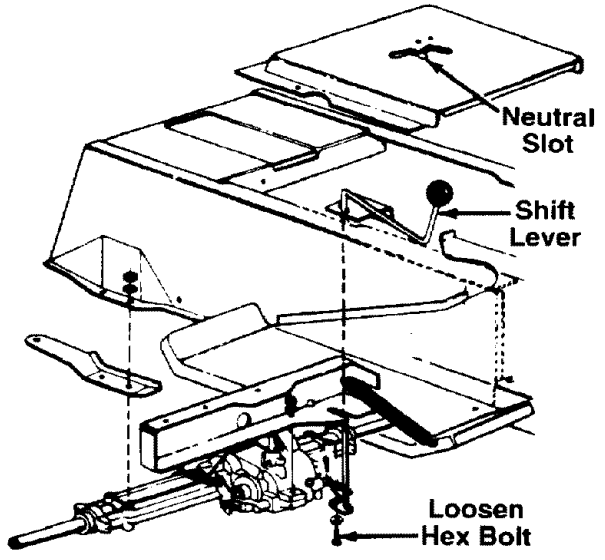



FIGURE 14.

## WHEEL ADJUSTMENT

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

To adjust the toe-in, proceed as follows.

1. Remove the hex nut and lock washer, and drop the tie rod end from the wheel bracket. See figure 15.
2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.

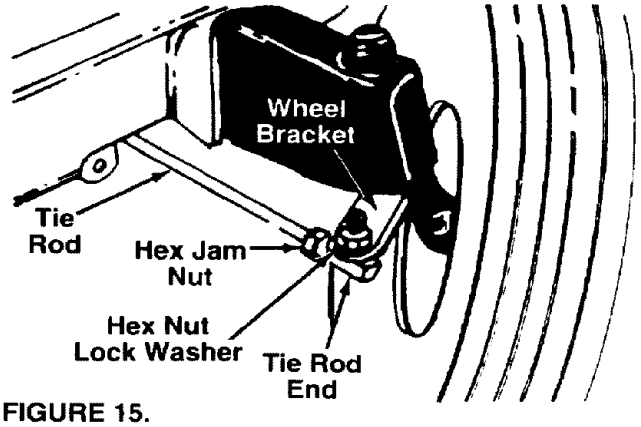



FIGURE 15.

Dimension "B" should be approximately 1/8" less than Dimension "A." See figure 16.

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 dimensions. Readjust if necessary.

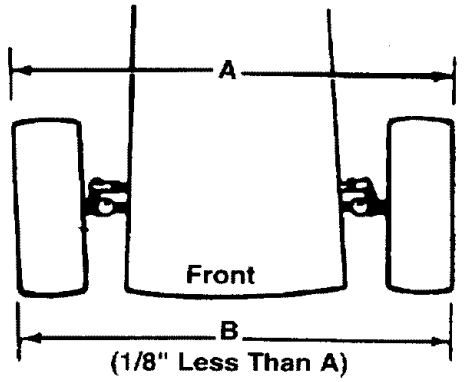



FIGURE 16.

## CARBURETOR ADJUSTMENT

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

**Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load.** To adjust the carburetor, refer to the separate engine manual packed with your unit.

**NOTE:** *A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor.*

## BRAKE ADJUSTMENT (See figure 17)

**NOTE:** *Your brake may be equipped with a lock nut instead of the castle nut and cotter pin shown in figure 17.*

The brake is located by the right rear wheel inside the frame. During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.

**WARNING: Do not have the engine running when you adjust the brake.**

To adjust the brake, remove the cotter pin from the castle nut (if so equipped). Adjust the nut so the brake starts to engage when the brake lever is 1/4" to 5/16" away from the axle housing.

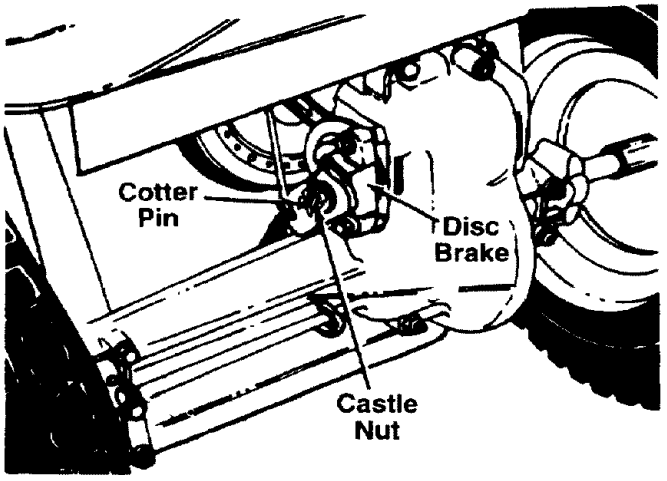



FIGURE 17.

# LUBRICATION

**WARNING: Always stop engine and disconnect spark plug wires before cleaning, lubricating or doing any kind of work on lawn tractor.**

## STEERING GEARS

Lubricate teeth of steering gears with automotive multi-purpose grease after every 25 hours of operation or once a season. See figure 18.

## STEERING SHAFT

Lubricate steering shaft at least once a season with light oil.

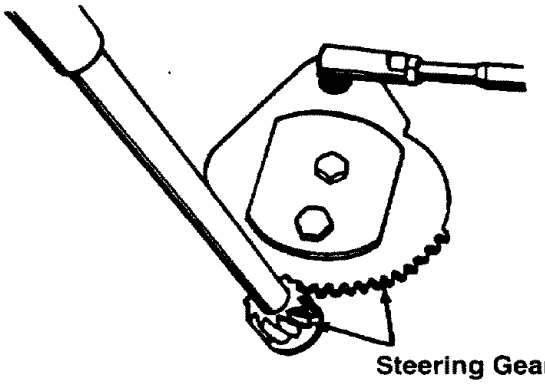



FIGURE 18.

## TRANSAXLE

The transaxle is lubricated at the factory and does not require checking. If disassembled for any reason, lubricate with 10 oz. of Shell grease, part number 737-0148.

## WHEELS

The front wheels may be provided with grease fittings. The rear wheels must be removed from the axle for lubrication. Lubricate both front and rear wheels at least once a season with automotive multi-purpose grease.

## PIVOT POINTS

Lubricate all pivot points with light oil at least once a season.

# MAINTENANCE

**WARNING: Disconnect the spark plug wires and ground against the engine before performing any repairs or maintenance.**

## TROUBLE SHOOTING

Refer to page 18 of this manual for trouble shooting information.

## ENGINE

**Refer to the separate engine manual for engine maintenance instructions.**

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. **Read and follow instructions carefully.**

Service **air cleaner** every 10 hours under normal conditions. Clean every few hours under extremely dusty conditions. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plugs** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

## CLEANING ENGINE AND DECK

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

Clean the underside of the deck after each mowing.

## CUTTING BLADES

**A. Removal for Sharpening or Replacement**

**WARNING: Be sure to disconnect and ground the spark plug wire and remove ignition key before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blades.**

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

**B. Sharpening**

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

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

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

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

**C. Reassembly**

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

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

**Blade Mounting Torque**

Center Bolt: 450 in. lbs. min., 600 in. lbs. max.
Blade Adapter Bolts: 200 in. lbs. min., 350 in. lbs. max.

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

## FUEL FILTER

Your unit is equipped with a replaceable in-line fuel filter. Replace filter whenever contamination or discoloration is noticed. Order replacement filter through your engine authorized service dealer.

## DRIVE BELT REMOVAL AND REPLACEMENT

**WARNING: Disconnect the spark plug wire and ground it against the engine. Block the wheels of the unit.**

**NOTE:** *Figures 19, 22 and 23 are shown with the unit tipped up for clarity. It is not necessary to tip the unit to remove the belts.*

*However, if tipping the unit is desired, remove the battery from the unit. To prevent gasoline leakage, drain the gasoline, or remove the fuel tank cap, place a thin piece of plastic over the neck of the fuel tank and screw on the cap. Be certain to remove the plastic when finished changing the belts. Block unit securely.*

**DECK BELT**

1. Place the lift lever in the disengaged position.
2. Remove the hex bolts (belt keepers) and cupped washers from the engine pulley belt guard. See figure 19.

**NOTE:** *When reassembling, make certain hex and cupped washers are assembled in the same locations from which they were removed. See figure 19.*

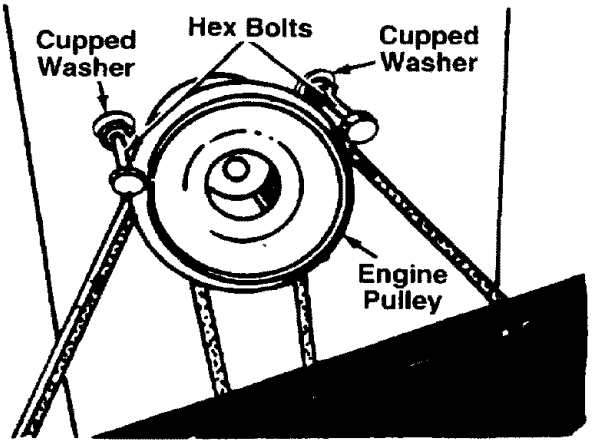



**FIGURE 19.**

3. Unhook the deck belt from the engine pulley.
4. Place the lift lever in the engaged (all the way forward) position.
5. Disconnect the spring which is attached to a bracket on the transaxle, inside the left rear wheel. Use a spring puller or other suitable tool.
6. Disconnect the six deck links by removing the hairpin clips and flat washers.
7. Disconnect the stabilizer plate from the stabilizer shaft assembly by removing the hairpin clips and flat washers and sliding out the rod. Refer to figure 12.
8. Place the lift lever in the disengaged position.

9. Slide the deck from beneath the lawn tractor.
10. Remove the belt guards at each deck pulley by removing the self-tapping screws. See figure 20.

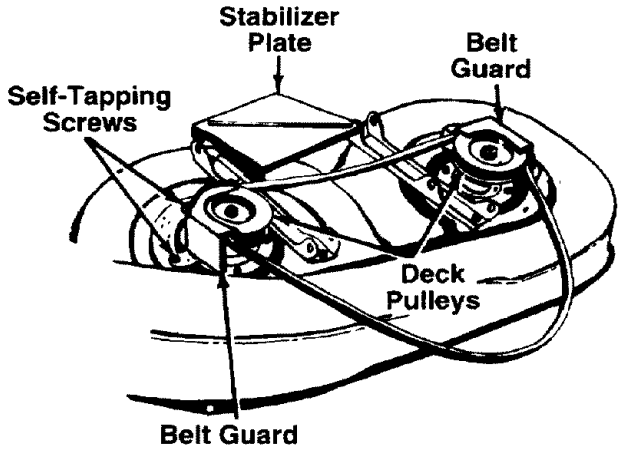



**FIGURE 20.**

11. Remove and replace the belt, reassemble following the instructions in reverse order.

**REAR DRIVE BELT**

1. Place shift lever in neutral position. Unscrew the shift knob. Remove the two truss head screws which secure the transmission cover. See figure 21A.
2. Lift the transmission cover. Unplug the safety wire from beneath the transmission cover. See figure 21B. Remove transmission cover.

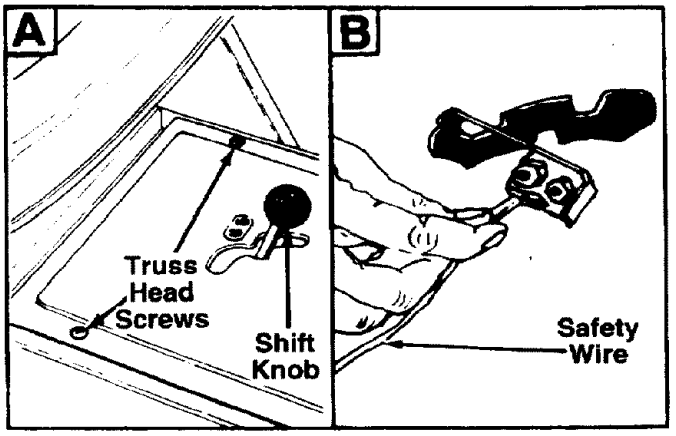



**FIGURE 21.**

3. Push the idler pulley toward the right side of the unit. Lift the belt over the idler pulley. See figure 22.
4. Remove the belt from the variable speed pulley.
5. Remove the two bolts which hold the shift lever bracket to the frame on the left side of the unit. Swing the bracket toward the right so the belt can be removed from the transmission pulley. See figure 22.
6. Replace belt, and reassemble in reverse order.
7. Adjust the speed control as instructed in adjustment section.

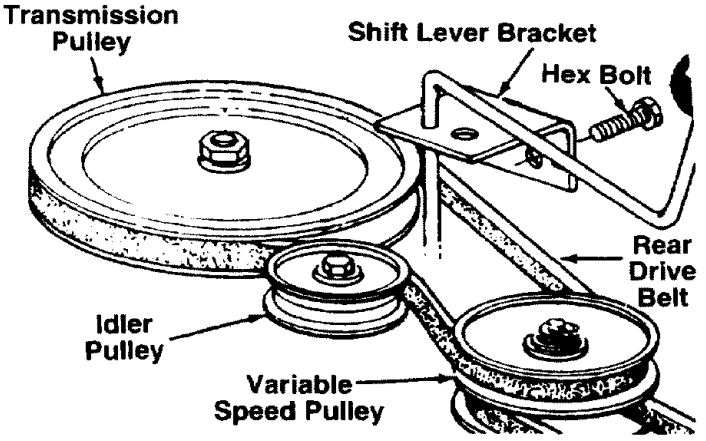



**FIGURE 22.**

**FRONT DRIVE BELT**

1. To remove the front drive belt, first remove the rear drive belt from the idler pulley and variable speed pulley.
2. Place the lift lever in the disengaged position.
3. Remove the hex bolts (belt keepers) and cupped washers from the engine pulley belt guard. Refer to figure 19.

**NOTE:** *Make certain hex bolts are reassembled as shown in figure 19 .*

4. Unhook the deck belt from the engine pulley.
5. Remove the two self-tapping screws on each side of the frame which hold the engine pulley belt guard to the frame. See figure 23. Remove the engine pulley belt guard by slipping it forward and down.

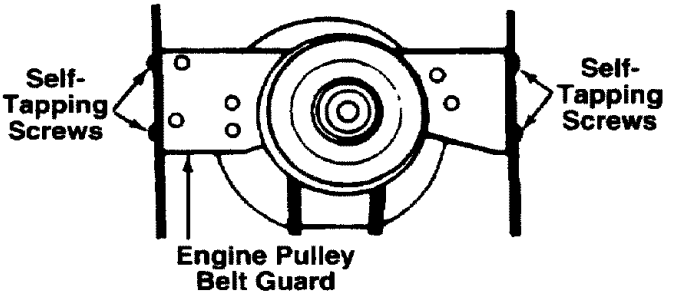



**FIGURE 23.**

6. Place the clutch-brake pedal in park position.
7. Push forward on the variable speed pulley, and lift the belt off the engine and remove the belt from the engine pulley.
8. Release the clutch-brake pedal. Using the pedal to move the variable speed pulley as necessary, lift the belt up and off the variable speed pulley.

**NOTE:** *When reassembling, make certain belt is inside the pins. See figure 24.*

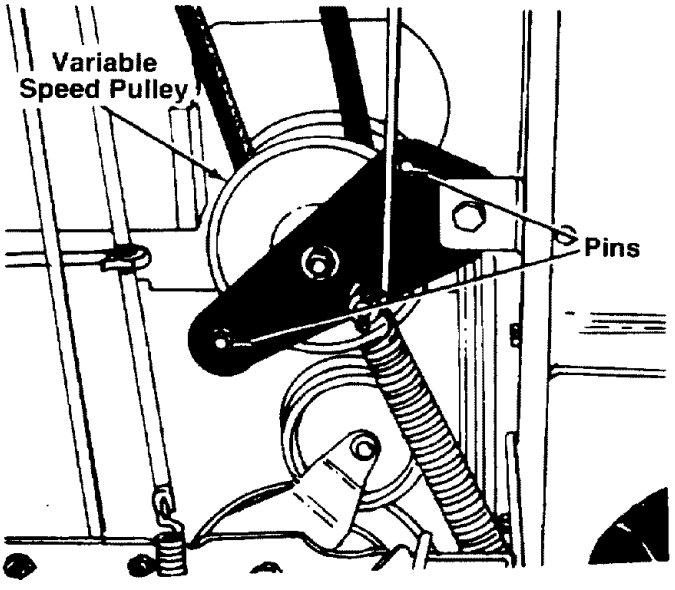



**FIGURE 24.**

9. Reassemble with a new belt, following instructions in reverse order.
10. Adjust the speed control as instructed in adjustment section.

## BATTERY REMOVAL OR INSTALLATION

**WARNING: When removing the battery, follow this order of disassembly to prevent the screwdriver from shorting against the frame.**

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

To install a battery:

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

## JUMP STARTING

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

**WARNING: Failure to use this starting procedure could cause sparking, and the gas in either battery could explode.**

## BATTERY MAINTENANCE

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

## BATTERY STORAGE

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

## COMMON CAUSES FOR BATTERY FAILURE ARE:

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

**NOTE:** *THESE FAILURES DO NOT CONSTITUTE WARRANTY.*

## TIRES

Recommended operating tire pressure is approximately 12 p.s.i. (check sidewall of tire for tire manufacturer's recommended pressure). Maximum tire pressure under any circumstances is 30 p.s.i. Equal tire pressure should be maintained on all tires.

When installing a tire to the rim, be certain rim is clean and free of rust. Lubricate both the tire and rim generously. Never inflate to over 30 p.s.i. to seat beads.

**WARNING: Excessive pressure (over 30 p.s.i.) when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury.**

# OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, prepare for storage as follows.

1. Clean the engine and the entire unit thoroughly.
2. Lubricate all lubrication points. Wipe the entire machine with an oiled rag to protect the surfaces.
3. Refer to the engine manual for correct engine storage instructions. The engine must be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel lines and fuel tanks.
4. Refer to battery storage instructions on page 16.
5. Store unit in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.

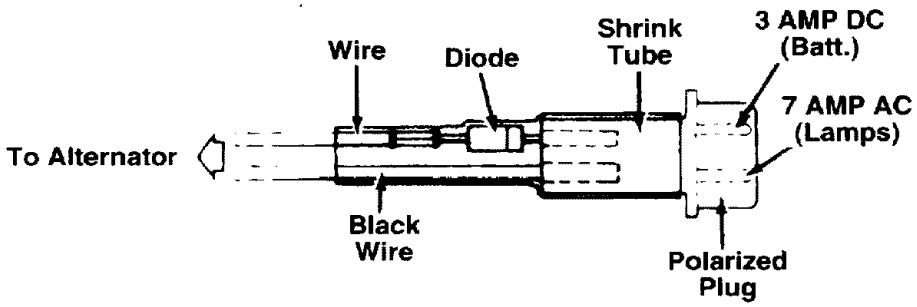
**NOTE:** *When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially any chains, springs, bearings and cables.*

# OPTIONAL EQUIPMENT

At the time of manufacture of lawn tractor, the optional accessories listed below are available.

| Description | Stock No. |
|---|---|
| 36" Snow Thrower | 80-3384806 |
| 42" Snow Blade | 80-3387908 |
| Grass Collector | 80-3511103 |
| 42" Mulching Kit | 80-3520109 |
| 30 Lb. Wheel Weights | 80-3386204 |

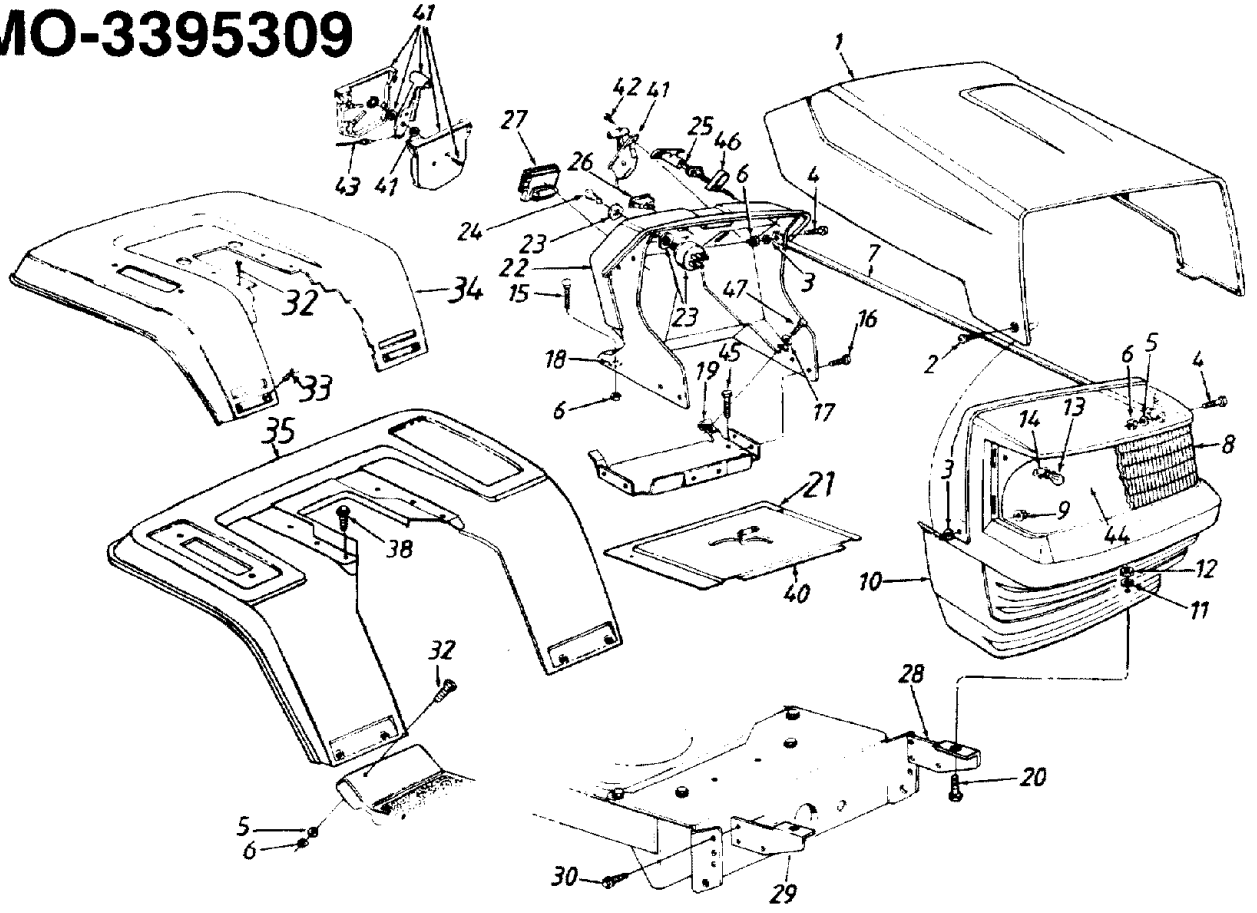
# TROUBLE SHOOTING GUIDE

| TROUBLE | LOOK FOR | REMEDY |
|---|---|---|
| Engine will not crank | Battery installed incorrectly | The battery must be installed with the negative terminal, identified at the terminal post by (Neg, N or –), grounded. The positive terminal (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal. |
| | Blown fuse or circuit breaker | Replace fuse with 7-1/2 amp. automotive type fuse. Fuses seldom fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged.<br>Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part. |
| | Battery is dead or weak | Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working.<br>The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.<br>  <br>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced. |
| | Mechanical failure (Wires and switches) | The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. **If the engine does not crank:** (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary. |
| Engine cranks but will not start | Throttle or choke not in starting position | Check owner's guide for correct position for throttle control and choke for starting. |
| | No spark to spark plug | Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer.<br>Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not. |

# TROUBLE SHOOTING GUIDE (Continued)

| TROUBLE | LOOK FOR | REMEDY |
|---|---|---|
| | No fuel to the carburetor | Gasoline tank empty. Fill.<br>Fuel line or in-line fuel filter plugged. Remove and clean fuel line. Replace filter if necessary. |
| | Air filter dirty | If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer. |
| Engine smokes | Engine loses crankcase vacuum | Dipstick not seated or broken. Replace defective part.<br>Engine breather defective. Replace. |
| Excessive vibration | Bent or damaged blade spindle | **Stop engine immediately.** Check all pulleys, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts. |
| | Bent blade | **Stop engine immediately.** Replace damaged blade. Only use original equipment blades. |
| Mower will not discharge grass or leaves uncut strips | Engine speed low<br>Transmission selection<br>Blades short or dull | Throttle must be set at full throttle.<br>Use lower transmission speed. The slower your ground speed, the better the quality of cut.<br>Sharpen or replace blades (uncut strip problem only). |

# TMO-3100002
# TMO-3395309



**16 AND 18 H.P. 42" LAWN TRACTORS**
**PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309**

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 17551A | Hood | 26 | 725-0634 | Light Switch |
| 2 | 738-0724 | Shld. Bolt .375" Dia. x .125" Lg. | 27 | 725-0925 | Ammeter |
| 3 | 736-0342 | Fl-Wash. .28" I.D. x .75" O.D. | 28 | 15821 | Grille Mtg. Brkt.—L.H. |
| 4 | 710-0258 | Hex Bolt 1/4-20 x .62" Lg.* | 29 | 15822 | Grille Mtg. Brkt.—R.H. |
| 5 | 736-0329 | L-Wash. 1/4" I.D.* | 30 | 710-0607 | Hex Wash. Hd. Tap Scr. 5/16 x .5" Lg. |
| 6 | 712-0287 | Hex Nut 1/4-20 Thd.* | | | |
| 7 | 749-0812 | Grille Support Rod | 32 | 710-0286 | Truss Mach. Scr. 1/4-20 x .5" Lg. (TMO-3395309) |
| 8 | 731-1099A | Headlight Lens | | | |
| 9 | 712-0380 | Flange L-Nut 1/4-28 Thd. | 33 | 710-0167 | Carriage Bolt 1/4-20 x .62" (TMO-3100002) |
| 10 | 731-1097A | Grille | | | |
| 11 | 736-0119 | L-Wash. 5/16" I.D.* | 34 | 17324A | Fender (TMO-3100002) |
| 12 | 712-0267 | Hex Nut 5/16-18 Thd.* | 35 | 17871 | Fender (TMO-3395309) |
| 13 | 725-0963 | Lamp | 38 | 710-0726 | Hex Wash. Hd. AB-Tap Scr. 5/16 x .75" Lg. |
| 14 | 725-1649 | Socket | | | |
| 15 | 710-0703 | Carriage Bolt 1/4-20 x .75" Lg. | 40 | 17286A | Shift Cover |
| 16 | 710-0599 | Hex Wash. Hd. TT-Tap Scr. 1/4-20 x .5" Lg. | 41 | 831-0823A | Throttle Box Ass'y. |
| | | | 42 | 710-0779A | Truss Mach. AB-Tap Scr. #10 x .5" Lg. |
| 17 | 736-0173 | Fl-Wash. .281" I.D. x .73" O.D. | | | |
| 18 | 726-0233 | Bolt Retainer 1/4" I.D. | 43 | 746-0634 | Throttle Control Wire |
| 19 | 712-0185 | Speed Nut 1/4-20 Thd. | 44 | 777-9206 | Grille Reflector Label |
| 20 | 710-0118 | Hex Bolt 5/16-18 x .75" Lg. | 45 | 710-0603 | Hex Wash. Hd. B-Tap Scr. 5/16-18 x .5" Lg. |
| 21 | 17632 | Gas Tank Support Brkt. | | | |
| 22 | 731-1096A | Dash | 46 | 17782 | Choke Retainer |
| 23 | 725-0267 | Ignition Switch | 47 | 710-0642 | Hex TT-Tap Scr. 1/4-20 x .75" Lg. |
| 24 | 725-0201 | Ignition Key | | | |
| 25 | 746-0614A | Choke Control | | | |

# TMO-3100002
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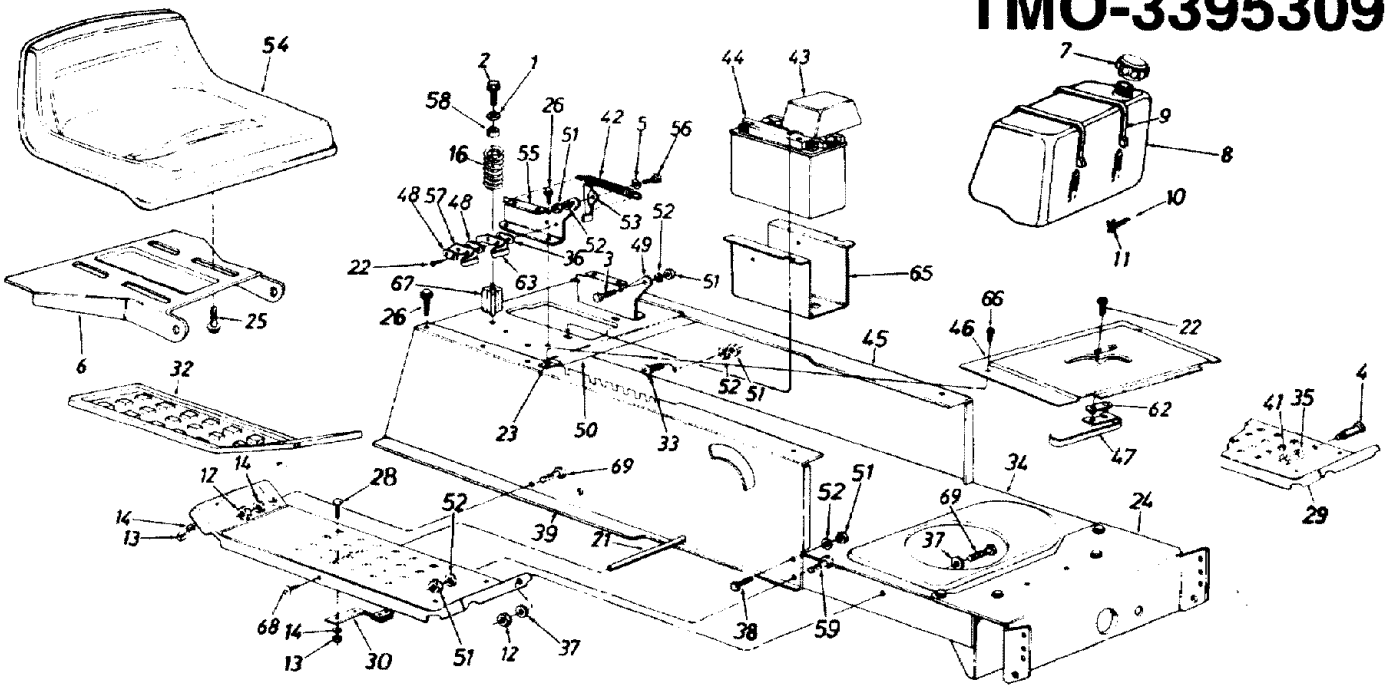

## 16 AND 18 H.P. 42" LAWN TRACTORS
## PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 736-0159 | Fl-Wash. .344" I.D. x .875" | 37 | 736-0463 | Fl-Wash. .25" I.D. x .625" O.D. |
| 2 | 710-1208 | Hex Wash. Hd. Tap Scr. 5/16-18 x 3.25" Lg. | 38 | 710-0118 | Hex Bolt 5/16-18 x .75" Lg.* |
| | | | 39 | 17622B | Upper Frame—R.H. |
| 3 | 738-0155 | Shld. Bolt .437" Dia. x .162" | 41 | 712-0798 | Hex Nut 3/8-16 Thd.* |
| 4 | 738-0145 | Shld. Bolt .50" Dia. x .84" | 42 | 732-0581B | Extension Spring 5.31" Lg. |
| 5 | 736-0141 | Spr-Wash. .445" I.D. x .75 | 43 | 731-1200 | Battery Cover |
| 6 | 15607D | Seat Pivot Bracket | 44 | 725-1430 | 12-V Battery (275 Cold Crank Amps) |
| 7 | 751-3071 | Fuel Cap | | | |
| 8 | 751-0555 | Fuel Tank | 45 | 17623 | Upper Frame—L.H. |
| 9 | 726-0209 | Tie Strap | 46 | 17286A | Shift Cover |
| 10 | 751-0535-26 | Fuel Line | 47 | 725-0759 | Reverse Safety Switch |
| 11 | 726-0205 | Hose Clamp | 48 | 726-0279 | Insulator Plate |
| 12 | 712-0138 | Hex Nut 1/4-28 Thd. | 49 | 17951 | Seat Pivot Brkt. Support—L.H. |
| 13 | 712-0287 | Hex Nut 1/4-20 Thd.* | 50 | 17953 | Hitch Plate |
| 14 | 736-0329 | L-Wash. 1/4" I.D. | 51 | 712-0267 | Hex Nut 5/16-18 Thd.* |
| 16 | 732-0672 | Compression Spring | 52 | 736-0119 | L-Wash. 5/16" I.D.* |
| 21 | 738-0526 | Running Board Rod | 53 | 17239A | Seat Lift Brkt. |
| 22 | 710-0227 | Hex Wash. Hd. AB-Tap Scr. #8 x .50" Lg. | 54 | 757-0338 | Seat (TMO-3395309) |
| | | | | 757-0360 | Seat (TMO-3100002) |
| 23 | 726-0139 | Speed Nut #10Z | 55 | 17960 | Seat Pivot Brkt. Support—R.H. |
| 24 | 17621 | Front Pivot Brkt. | 56 | 738-0296 | Shld. Bolt .437" Dia. x .268" |
| 25 | 710-0623 | Hex Tap Scr. 3/8-16 x .75" | 57 | 725-1303 | Spring Switch |
| 26 | 710-0726 | Hex Wash. Hd. AB-Tap Scr. 5/16 x .75" Lg. | 58 | 722-0160 | Bushing |
| | | | 59 | 710-0650 | Hex Wash. TT-Tap Scr. 5/16-18 x 7/8" Lg. |
| 28 | 710-0134 | Carriage Bolt 1/4-20 x .62"* | | | |
| 29 | 17770 | Running Board (R.H. & L.H.) | 62 | 726-0320 | Insulator Nut Plate |
| 30 | 761-0168A | Blade Brake Ass'y. | 63 | 725-1439 | Safety Switch (Seat) |
| 32 | 731-0909 | Rubber Foot Pad—L.H. | 65 | 17952 | Battery Tray |
| | 731-0910 | Rubber Foot Pad—R.H. | 66 | 710-0351 | Truss Mach. B-Tap Scr. #10 x .5" Lg. |
| 33 | 710-0323 | Truss Mach. Scr. 5/16-18 x .75" Lg.* | 67 | 748-0347 | Spring Spacer |
| 34 | 17620C | Lower Frame | 68 | 710-1221 | Pan Hd. Cutting Scr. 5/16-18 x .75" Lg. |
| 35 | 736-0169 | L-Wash. 3/8" I.D.* | | | |
| 36 | 726-0278 | Insulator Boss Plate | 69 | 710-0412 | Hex Bolt 1/4-28 x .75" Lg. |

# TMO-3100002
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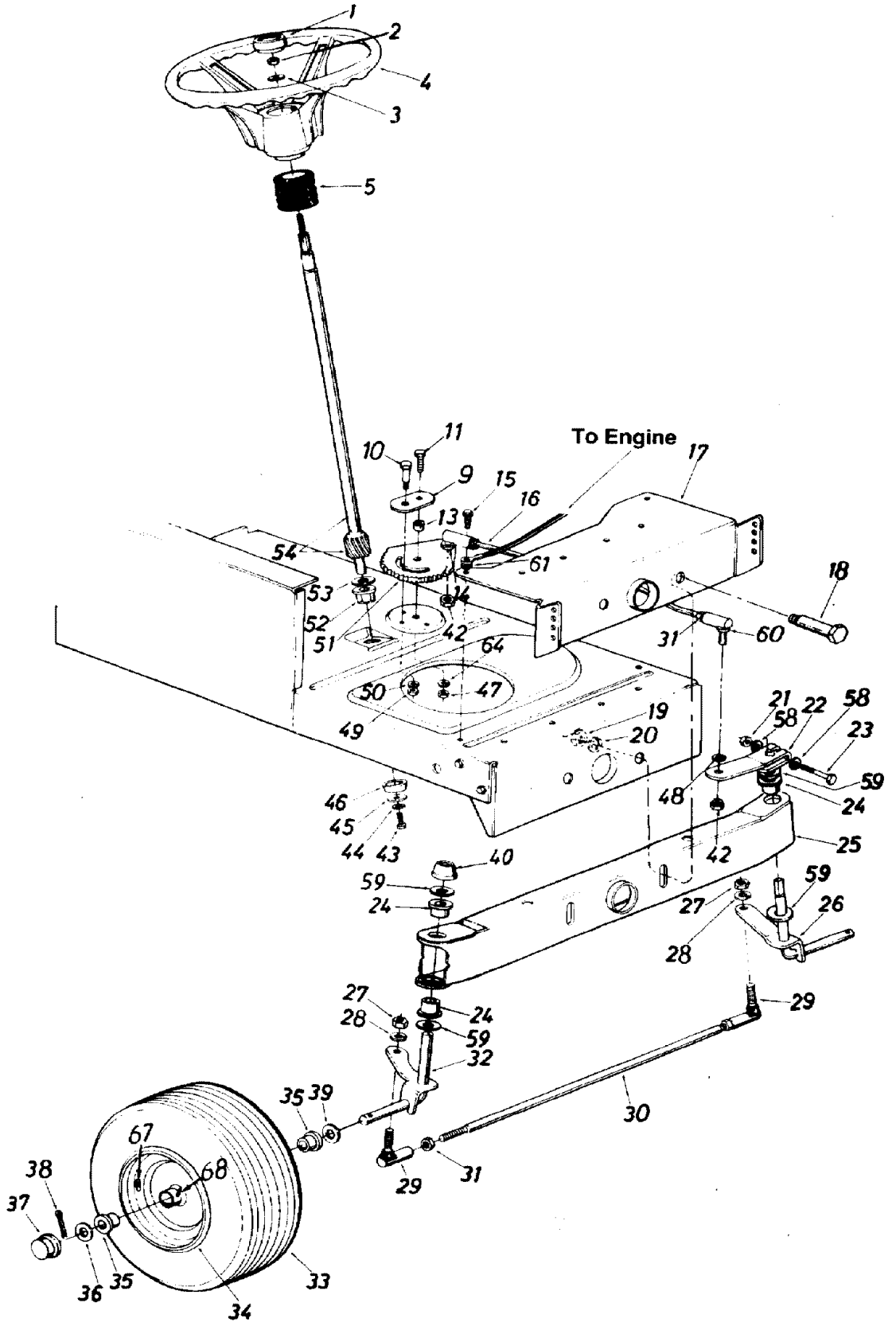


# TMO-3100002
# TMO-3395309

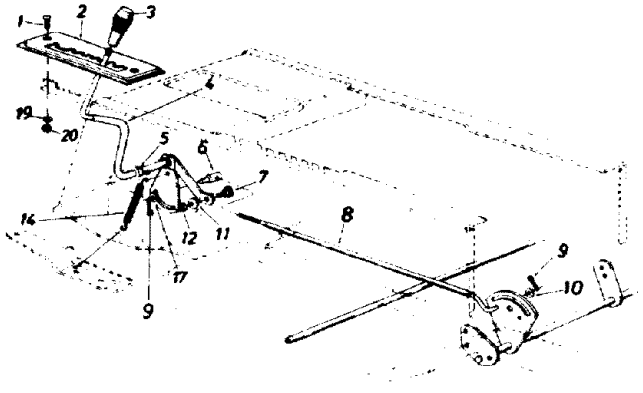
**16 AND 18 H.P. 42" LAWN TRACTORS**
**PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309**

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 731-0220 | Steering Wheel Cap | 31 | 712-0711 | Hex Jam Nut 3/8-24 Thd.* |
| 2 | 712-0237 | Hex L-Nut 5/16-24 Thd. | 32 | 17584 | Front Axle Ass'y.—R.H. |
| 3 | 736-0242 | Belleville Wash. .345" I.D. | 33 | 634-0056 | Wheel Ass'y. Comp. |
| 4 | 731-0806A | Steering Wheel | | 734-0864 | Tire Only |
| 5 | 731-0954 | Steering Bellow | 34 | 634-0024 | Front Wheel Rim Only |
| 6 | 737-0280 | Grease Fitting | 35 | 741-0487A | Bearing |
| 9 | 17198A | Retainer Plate | 36 | 736-0285 | Fl-Wash. .635 I.D. x 1.59" O.D. |
| 10 | 738-0141 | Shoulder Bolt .437" Dia. x .35 Lg. 5/16-18 Thd. | 37 | 731-0484A | Front Wheel Hub Cap |
| | | | 38 | 714-0470 | Cotter Pin 1/8" Dia. x 1.25"* |
| 11 | 710-0152 | Hex Bolt 3/8-24 x 1.0" Lg. (Grade 5) | 39 | 736-0187 | Fl-Wash. .640" I.D. x 1.24" O.D. |
| | | | 40 | 726-0214 | Push Cap 5/8" Dia. Rod |
| 13 | 750-0535 | Spacer .380" I.D. x .625" O.D. x .227 | 42 | 712-0446 | Hex Jam Nut 3/8-24 Thd. |
| | | | 43 | 710-0538 | Hex L-Bolt 5/16-18 x .62"* |
| 14 | 736-0169 | L-Wash. 3/8" I.D.* | 44 | 736-0119 | L-Wash. 5/16" I.D.* |
| 15 | 710-0726 | Hex Wash. Hd. Self-Tap Scr. | 45 | 736-0343 | Fl-Wash. .33" I.D. x 1.25" O.D. |
| 16 | 711-0788 | Steering Drag Link | 46 | 750-0532 | Spacer (Plastic) |
| 17 | 17621 | Front Pivot Brkt. | 47 | 712-0214 | Hex Cent. L-Nut 3/8-24 Thd. |
| 18 | 738-0527 | Shoulder Bolt .498" Dia. x 2.04 Lg. 3/8-16 Thd. | 48 | 736-0169 | L-Wash. 3/8" I.D.* |
| | | | 49 | 712-0158 | Hex Cent. L-Nut 5/16-18 Thd. |
| 19 | 712-0798 | Hex Nut 3/8-16 Thd.* | 50 | 736-0119 | L-Wash. 5/16" I.D.* |
| 20 | 736-0169 | L-Wash. 3/8" I.D.* | 51 | 717-0622A | Steering Gear Segment |
| 21 | 712-0237 | Hex Cent. L-Nut 5/16-24 Thd. | 52 | 741-0225 | Hex Flg. Brg. .634 I.D. |
| 22 | 16481A | Steering Arm Front Axle | 53 | 736-0187 | Fl-Wash. (Hardened) |
| 23 | 710-0772 | Hex Bolt 5/16-24 x 2.00" Lg. (Grade 5) | 54 | 738-0743 | Steering Shaft |
| | | | 58 | 736-0271 | Wave-Wash. .32" I.D. x .62" O.D. |
| 24 | 741-0487A | Hex Flg. Brg. .632 I.D. | 59 | 736-0187 | Fl-Wash. (Hardened) |
| 25 | 683-0002 | Pivot Bar Ass'y. | 60 | 723-3018 | Drag Link Ball Joint 3/8-24 Thd. |
| 26 | 17585 | Front Axle Ass'y.—L.H. | 61 | 736-0607 | Ext. L-Wash. 5/16" I.D. |
| 27 | 712-0241 | Hex Nut 3/8-24 Thd.* | 64 | 736-0356 | Bell-Wash. .39" I.D. x 1.38" O.D. |
| 28 | 736-0169 | L-Wash. 3/8" I.D.* | 66 | 710-0459 | Hex Bolt 3/8-24 x 1.5" Lg. (Gr. 5) |
| 29 | 723-3018 | Ball Joint 3/8-24 Thd. | 67 | 734-0255 | Air Valve |
| 30 | 747-0753 | Tie Rod | 68 | 737-0211 | Grease Fitting |

*Common Hardware—May be purchased locally.
IMPORTANT: DO NOT order parts by reference number (Ref. No.).

NOTE: Specifications subject to change without notice or obligation.

# TMO-3100002
# TMO-3395309




**PARTS LIST FOR LAWN TRACTORS**

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 710-0924 | Truss Mach. Scr. 1/4-20 x .75" Lg. |
| 2 | 16194 | 7-Speed Selector Plate |
| 3 | 720-0218 | Shift Knob |
| 4 | 16192 | Speed Selector Lever Ass'y. |
| 5 | 736-0192 | Flat Washer .53" I.D. x .93" |
| 6 | 711-0198 | Ferrule 3/8-24 x .37" Dia. |
| 7 | 738-0155 | Shoulder Bolt |
| 8 | 747-0503A | Speed Control Link |
| 9 | 714-0111 | Cotter Pin 3/32" Dia. x 1.0"* |
| 10 | 736-0226 | Fl-Wash. .469" I.D. x .88" |
| 11 | 736-0119 | L-Wash. 5/16" I.D.* |
| 12 | 712-0267 | Hex Nut 5/16-18 Thd.* |
| 14 | 732-0303 | Spring .38" O.D. x 3.18" Lg. |
| 17 | 736-0140 | Fl-Wash. .385" I.D. x .62" |
| 19 | 736-0329 | L-Wash. 1/4" I.D.* |
| 20 | 712-0287 | Hex Nut 1/4-20 Thd.* |

# TMO-3100002
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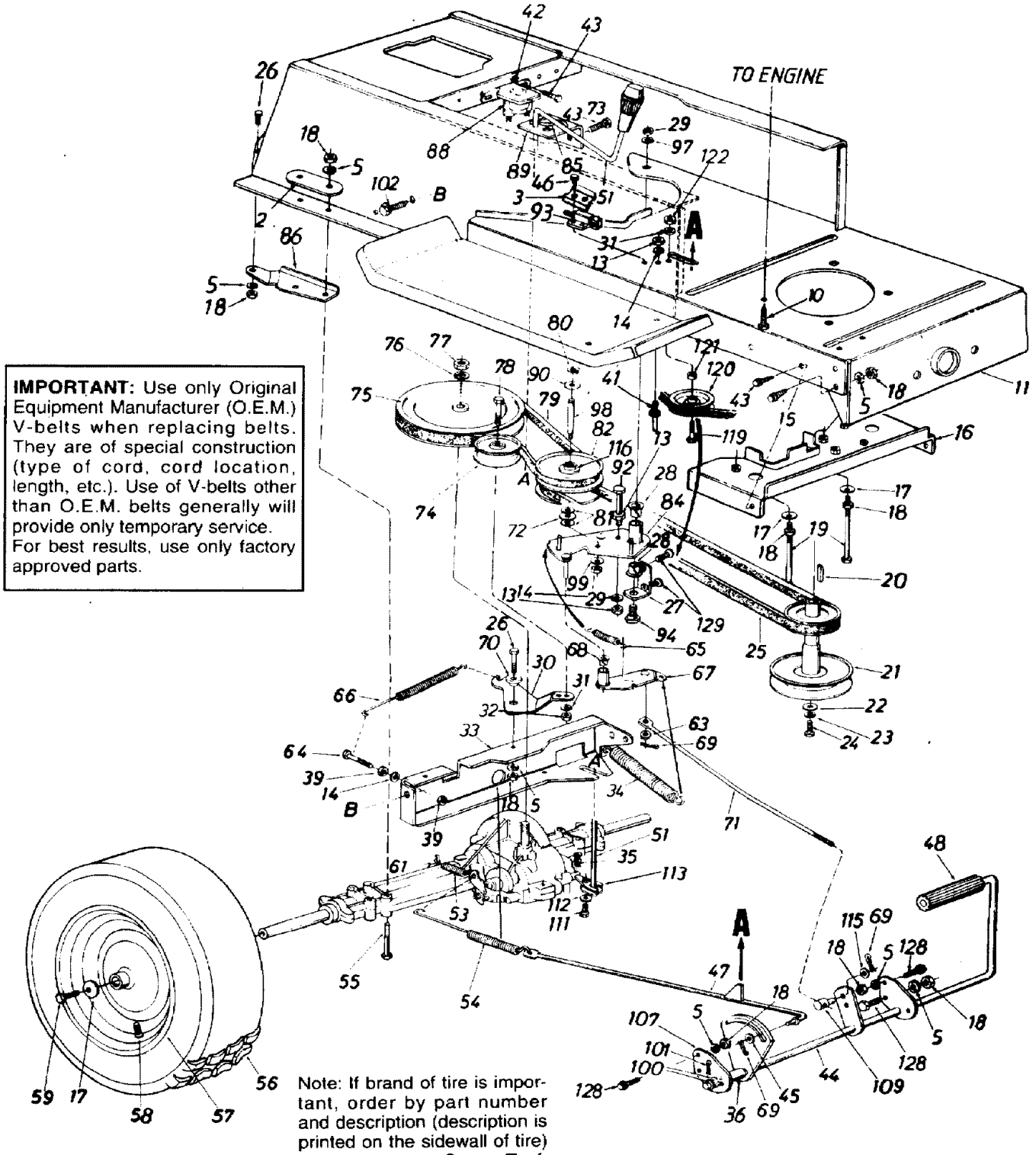


**IMPORTANT:** Use only Original Equipment Manufacturer (O.E.M.) V-belts when replacing belts. They are of special construction (type of cord, cord location, length, etc.). Use of V-belts other than O.E.M. belts generally will provide only temporary service. For best results, use only factory approved parts.

Note: If brand of tire is important, order by part number and description (description is printed on the sidewall of tire) [i.e. Armstrong Super Turf, Goodyear Softrac, Carlisle Turf Saver, etc.].

# TMO-3100002
# TMO-3395309

## 16 AND 18 H.P. 42" LAWN TRACTORS
## PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 2 | 17840 | Transaxle Mtg. Brkt. | 65 | 732-0568 | Ext. Spring |
| 3 | 17962 | Switch Plate | 66 | 732-0384 | Ext. Spring .62" O.D. x 6.12" |
| 5 | 736-0119 | L-Wash. 5/16" I.D.* | 67 | 16554A | Variable Speed Torque Brkt. Ass'y. |
| 10 | 710-0502A | Hex L-Wash. Tap Scr. 3/8-16 x 1.5" Lg. | 68 | 741-0419 | Flanged Bearing |
| 11 | 17620C | Lower Frame Ass'y. | 69 | 714-0111 | Cotter Pin 3/32" Dia.* |
| 13 | 712-0287 | Hex Nut 1/4-20 Thd.* | 70 | 748-0234 | Shoulder Spacer .27" Lg. |
| 14 | 736-0329 | L-Wash. 1/4" I.D.* | 71 | 747-0530A | Speed Control Link |
| 15 | 710-0604 | Hex TT-Tap Scr. 5/16-18 x .62" | 72 | 741-0405 | Truss Bearing .56 Dia. x 1.25" |
| 16 | 17358C | Belt Guard Brkt. Ass'y. | 73 | 720-0232 | Shift Knob |
| 17 | 736-0242 | Bell-Wash. .345" I.D. x .88" | 74 | 756-0437 | Fl-Idler Pulley 3.25" x .75" |
| 18 | 712-0267 | Hex Nut 5/16-18 Thd.* | 75 | 656-0004 | "V" Pulley |
| 19 | 710-0190 | Hex Bolt 5/16-18 x 4.0"* | 76 | 736-0427 | Bell-Wash. .56" I.D. x 1.125" |
| 20 | 714-0114 | Sq. Key 1/4" x 1/4" x 2.00" | 77 | 712-3035 | Hex Jam Nut 5/16-18 Thd. |
| 21 | 756-0424 | Engine Pulley | 78 | 710-0539 | Hex Bolt 3/8-24 x 1.75" Lg. |
| 22 | 736-0322 | Fl-Wash. 7/16" I.D. x 1.25" | 79 | 754-0370 | Variable Speed Belt |
| 23 | 736-0171 | L-Wash. 7/16" I.D.* | 80 | 716-0114 | Snap Ring .56" Dia. |
| 24 | 710-0757 | Hex Bolt 7/16-20 x 1.50" Lg. | 81 | 736-0355 | Fl-Wash. |
| 25 | 754-0280 | Variable-Speed Belt | 82 | 717-0800A | Variable Speed Pulley Ass'y. 5" O.D. |
| 26 | 710-0118 | Hex Bolt 5/16-18 x .75" Lg. | 84 | 16354B | Variable Speed Brkt. Ass'y. |
| 27 | 17963 | Bearing Shaft Bracket Ass'y. | 85 | 732-0525 | Comp. Spring—Clip |
| 28 | 741-0591 | Flanged Nyliner Brg. 5/8" I.D. x .88" Lg. | 86 | 17668 | Axle Support Brkt.—R.H. |
| 29 | 712-0241 | Hex Nut 3/8-24 Thd.* | | 17669 | Axle Support Brkt.—L.H. (Not Shown) |
| 30 | 17643 | Idler Bracket | | | |
| 31 | 736-0169 | L-Wash. 3/8" I.D.* | 88 | 725-1426 | Solenoid |
| 32 | 712-0241 | Hex Nut 3/8-24 Thd.* | 89 | 17630 | Shift Lever Bracket |
| 33 | 17629A | Transaxle Support Brkt. | 90 | 736-0414 | Teflon Washer .565" I.D. |
| 34 | 732-0556 | Ext. Spring .94" O.D. x 7.58" | 92 | 710-1223 | Hex Bolt 1/4-20 x 3.5" Lg. |
| 35 | 714-0149B | Inter. Cotter Pin | 93 | 725-3169A | Safety Switch.(Clutch) |
| 36 | 750-0802 | Spacer .63" I.D. | 94 | 738-0755 | Shld. Bolt 3/8-24 x 3.12" Lg. |
| 39 | 712-0138 | Hex Nut 1/4-28 Thd. | 97 | 736-0105 | Bell-Wash. .38" I.D. x .88" |
| 40 | 710-0776 | Hex AB-Tap Scr. 1/4" x .62" Lg. | 98 | 738-0569 | Shaft .56" Dia. x 3.875" Lg. |
| 41 | 711-0747 | Belt Guard Pin | 99 | 736-0331 | Bell-Wash. .39" I.D. x 1.12" |
| 42 | 736-0222 | Ext. L-Wash. 1/4" I.D. | 100 | 736-0256 | Fl-Wash. .64" I.D. x .94" |
| 43 | 710-0599 | Hex Wash. Hd. S-Tap Scr. 1/4-20 x .50" Lg. | 101 | 714-0470 | Cotter Pin 1/8" Dia. x 1.25" |
| 44 | 17715A | Clutch/Brake Pedal Ass'y. | 102 | 710-0604 | Hex Wash. Hd. Scr. 5/16-18 x .62" Lg. |
| 45 | 736-0117 | Fl-Wash. | 107 | 17860 | Pedal Bracket |
| 46 | 710-0351 | Truss Mach. Scr. B-Tap Scr. #10 x .5" Lg. | 108 | 714-0470 | Cotter Pin 1/8" Dia. x 1.25" |
| 47 | 17686A | Brake Rod Ass'y. | 109 | 711-0198 | Ferrule |
| 48 | 735-0196 | Foot Pad | 111 | 710-0195 | Hex Bolt 1/4-28 x .50" Lg. |
| 51 | 17705 | Shift Lever Ass'y. | 112 | 736-0270 | Bell-Wash. .265" I.D. x .75" |
| 53 | 732-0264 | Ext. Spring .38" O.D. x 2.5" | 113 | 17707 | Shift Lever Link Ass'y. |
| 54 | 732-0413 | Ext. Spring .59" O.D. x 7.08" | 115 | 736-0140 | Fl-Wash. .385" I.D. x .62" |
| 55 | 710-0176 | Hex Bolt 5/16-18 x 2.75"* | 116 | 741-0404 | Needle Brgs. (2 Req'd.) |
| 56 | 734-1675 | Wheel Ass'y. Comp. | 119 | 710-0427 | Hex Bolt 3/8-16 x 1.25" Lg. |
| | 734-1596 | Tire Only | 120 | 756-0217 | Fl-Idler w/Flanges 2.75" O.D. |
| 57 | 734-0603A | Wheel Rim Only | 121 | 736-0280 | Fl-Wash. .39" I.D. x 1.12" O.D. |
| 58 | 734-0255 | Air Valve (Service Only) | 122 | 712-0798 | Hex Nut 3/8-16 Thd. |
| 59 | 710-0627 | Hex Bolt 5/16-24 x .75" Lg.* | 128 | 710-0650 | Hex Wash. TT-Tap Scr. 5/16-18 x .75" Lg. |
| 61 | 732-0454 | Brake Return Spring Anchor | 129 | 710-0726 | Hex Wash. AB-Tap Scr. 5/16-18 x .75" Lg. |
| 63 | 736-0275 | Fl-Wash. .34" I.D. x .68" O.D. | | | |
| 64 | 710-0428 | Hex Bolt 1/4-28 x 1.25" Lg.* | | | |

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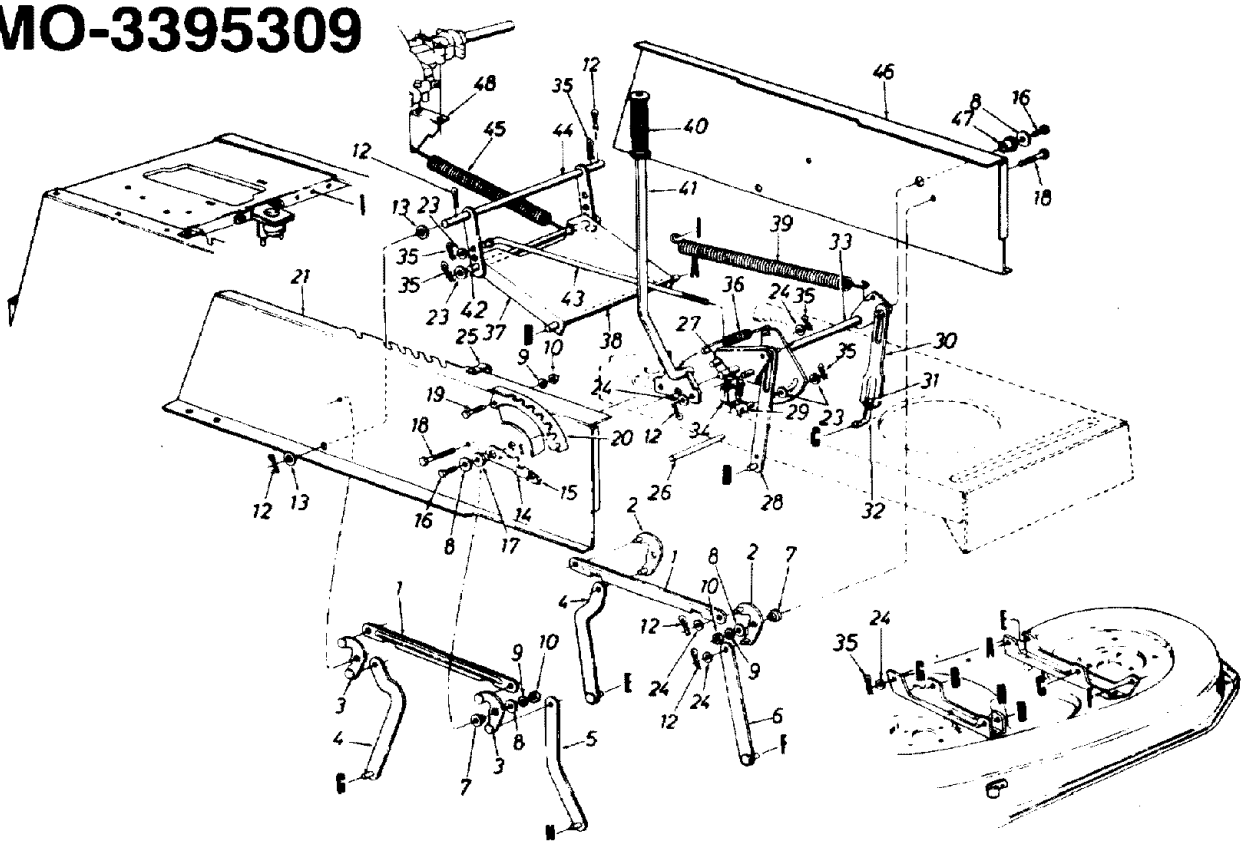
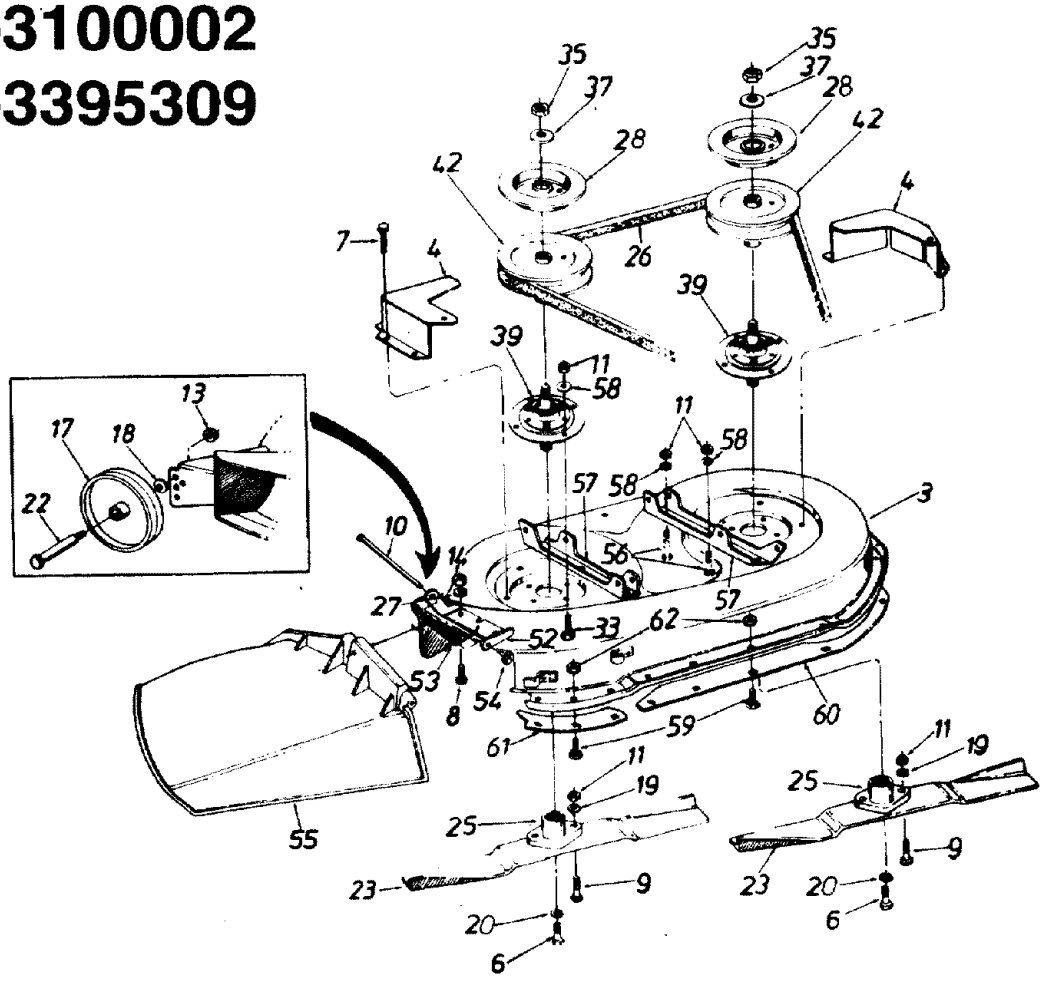


**16 AND 18 H.P. 42" LAWN TRACTORS**
**PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309**

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 09735A | Connecting Rod | 25 | 726-0272 | Clamp |
| 2 | 17640 | Pivot Link Ass'y.—L.H. | 26 | 738-0526 | Running Board Rod |
| 3 | 17641 | Pivot Link Ass'y.—R.H. | 27 | 710-3007 | Hex Wash. Hd. Tap Scr. |
| 4 | 17710 | Deck Hanger Link Ass'y. | 28 | 14802A | Link Deck Lift Ass'y. |
| 5 | 14800A | Deck Hanger Link Ass'y. | 29 | 711-0723A | Adj. Ferrule 3/8-24 Thd. |
| 6 | 14804A | Deck Hanger Link Ass'y. | 30 | 17712 | Adj. Deck Lift Link |
| 7 | 748-0331 | Shld. Spacer .318" I.D. | 31 | 712-3066 | Hex Nut 1/2-20 Thd. (Gr. 5) |
| 8 | 736-0264 | Fl-Wash. .344" I.D. x .62" O.D. | 32 | 711-0841 | Lift Link Adjuster |
| 9 | 736-0119 | L-Wash. 5/16" I.D.* | 33 | 17637A | Lift Shaft Ass'y. |
| 10 | 712-0267 | Hex Nut 5/16-18 Thd.* | 34 | 725-0803C | Safety Switch (Deck) |
| 12 | 714-0470 | Cotter Pin 1/8" Dia. | 35 | 714-0145 | Inter. Cotter Pin 3/8" Dia. |
| 13 | 736-0256 | Fl-Wash. .635" I.D. x 1.0" O.D. | 36 | 732-0637 | Extension Spring |
| 14 | 732-0412A | Deck Lift—Down Stop (Incl. Ref. 15) | 37 | 17636A | Stabilizer Bracket |
| | | | 38 | 738-0670 | Shaft 1/2" Dia. x 10.28" Lg. |
| 15 | 08540 | Knob | 39 | 732-0638 | Extension Spring |
| 16 | 710-0604 | Hex Wash. TT-Tap Scr. 5/16-18 x .75" Lg. | 40 | 720-0233 | Grip (Lift Handle) |
| | | | 41 | 17675 | Deck Lift Handle Ass'y. |
| 17 | 748-0176 | Flange Brg. .63" I.D.† | 42 | 738-0669 | Shaft 3/8" Dia. x 9.34" Lg. |
| 18 | 710-1238 | Hex Wash. Hd. Scr. 5/16-18 x .875" Lg. | 43 | 747-0598 | Disengagement Rod |
| | | | 44 | 17624 | Stabilizer Shaft Ass'y. |
| 19 | 710-0118 | Hex Bolt 5/16-18 x .75" Lg. | 45 | 732-0556 | Extension Spring 7.58" Lg. |
| 20 | 17730 | Index Brkt. | 46 | 17623 | Upper Frame—L.H. |
| 21 | 17622B | Upper Frame—R.H. | 47 | 741-0313 | Flange Brg. .632" I.D. |
| 23 | 736-0267 | Fl-Wash. .385" I.D. x .87" O.D. | 48 | 17128 | Spring Retainer Brkt. |
| 24 | 736-0160 | Fl-Wash. .531" I.D. x .93" O.D. | | | |

*Common Hardware—May be purchased locally.
IMPORTANT: DO NOT order parts by reference number (Ref. No.).

# TMO-3100002
# TMO-3395309

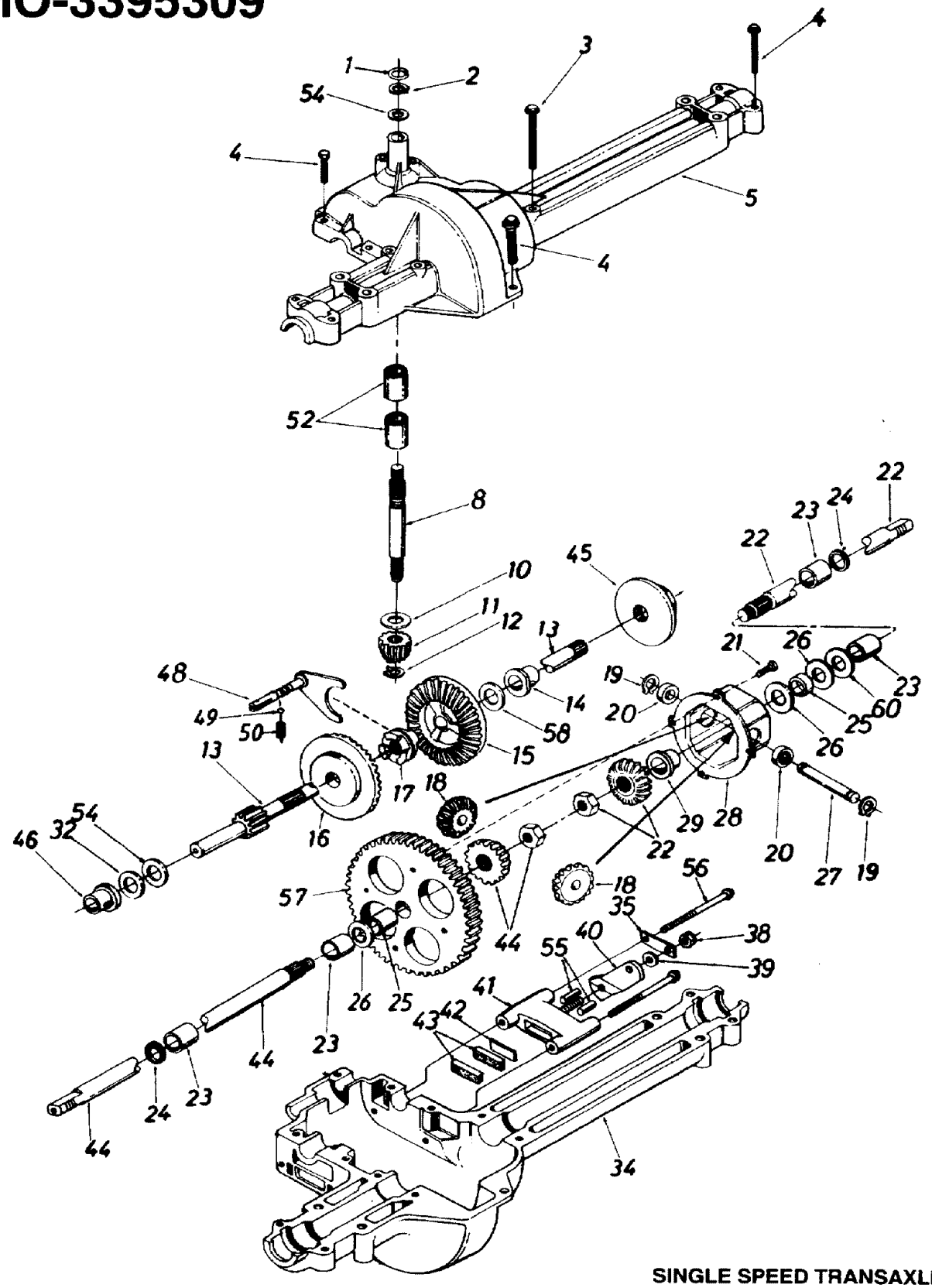



**16 AND 18 H.P. 42" LAWN TRACTORS**
**PARTS LIST FOR MODELS TMO-3100002 AND TMO-3395309**

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 3 | 17600A | 42" Deck Ass'y. | 26 | 754-0371A | V-Belt |
| | 813-06119 | 42" Deck Ass'y. Comp. (For Service Only) | 27 | 736-0270 | Bell-Wash. 1/4" I.D. |
| | | | 28 | 09322 | Brake Disc |
| 4 | 17664 | Belt Guard Deck | 33 | 710-0157 | Hex Bolt 5/16-24 x .75" Lg. |
| 6 | 710-0152 | Hex Bolt 3/8-24 x 1.0" Lg. | 35 | 712-0318 | Hex Jam Nut 5/8-18 Thd. |
| 7 | 710-0599 | Hex Wash. Hd. TT-Tap Scr. 1/4-20 x .5" Lg. | 37 | 736-0158 | L-Wash. 5/8" I.D.* |
| | | | 39 | 717-0906 | Blade Spindle Ass'y. Comp. |
| 8 | 710-0258 | Hex Bolt 1/4-20 x .62" | 42 | 756-0556 | 5.5" Dia. Pulley |
| 9 | 710-0888 | Hex Bolt Special 5/16-24 x 1.0" | 52 | 703-1693 | Hinge Mtg. Brkt. |
| 10 | 711-0792 | Hinge Pin | 53 | 732-0602 | Torsion Spring |
| 11 | 712-0123 | Hex Nut 5/16-24 Thd.* | 54 | 726-0106 | Push Nut |
| 13 | 712-0181 | Hex Top L-Nut 3/8-16 Thd. | 55 | 731-1032 | Chute Ass'y. Comp. (Incl. Ref. 10, 52, 53, 54, 55) |
| 14 | 712-0287 | Hex Nut 1/4-20 Thd.* | | | |
| 17 | 734-0973 | Deck Wheel—5" | 56 | 710-0157 | Hex Bolt 5/16-24 x .75" Lg. |
| 18 | 736-0105 | Bell-Wash. .40" I.D. x .88" O.D. | 57 | 17493A | Deck Hanger Channel |
| | | | 58 | 736-0242 | Bell-Wash. .345" I.D. x .88" |
| 19 | 736-0119 | L-Wash. 5/16" I.D.* | 59 | 710-0167 | Carr. Bolt 1/4-20 x .5" Lg. |
| 20 | 736-0217 | L-Wash. 3/8" I.D.—H.D. | 60 | 17861A | Deck Skirt Ext.—Long |
| 22 | 738-0373 | Shld. Bolt .498" Dia. x 1.53" | 61 | 17961 | Deck Skirt Ext.—Short |
| 23 | 742-0499A | High-Lift Blade | 62 | 712-0271 | Hex Sems Nut 1/4-20 Thd. |
| 25 | 748-0300 | Blade Adapter | | | |

*Common Hardware—May be purchased locally.
IMPORTANT: DO NOT order parts by reference number (Ref. No.).

# TMO-3100002
# TMO-3395309




SINGLE SPEED TRANSAXLE—R.H.
MODEL 618-0073

# TMO-3100002
# TMO-3395309

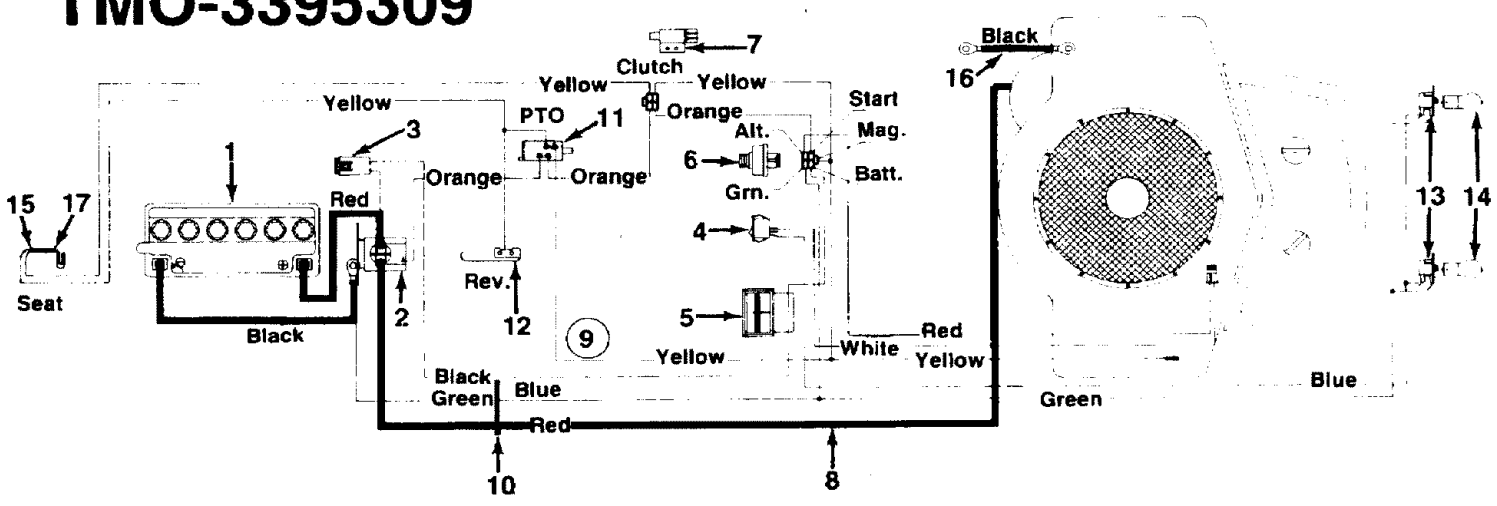
## PARTS LIST FOR
## SINGLE SPEED TRANSAXLE RIGHT HAND 618-0073

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 732-0614 | Wire Ring | 33 | 736-0445 | Fl-Wash. .760" I.D. x 1.5" O.D. |
| 2 | 716-0171 | Retaining—Ring | 34 | 719-0313 | Lower Housing |
| 3 | 710-1026 | Hex Wash. TT-Tap Scr. 1/4-20 x 1.75" Lg.* | 35 | 718-0150 | Anti-Rotation Brkt. |
| | | | 38 | 712-0273 | Hex Nut 5/16-24 Thd. |
| 4 | 710-0809 | Hex Tap Scr. 1/4-20 x 1.25" Lg. | 39 | 736-0371 | Fl-Wash. .344" I.D. x .875" O.D. |
| 5 | 719-0314 | Upper Housing | | | |
| 8 | 711-0861 | Input Shaft | 40 | 717-0700 | Actuating Arm |
| 10 | 736-0335 | Thrust Washer 5/8" I.D. x 1.25" O.D. | 41 | 761-0198 | Brake Yoke |
| | | | 42 | 717-0682 | Puck Plate |
| 11 | 717-0633 | Pinion Input 14T | 43 | 717-0678 | Brake Puck |
| 12 | 716-0171 | Retaining Ring | 44 | 717-0538 | Axle L.H. Ass'y. |
| 13 | 711-0943 | Drive Shaft—R.H. Brake | 45 | 761-0202 | Brake Disc |
| 14 | 741-0336 | Flange Brg. 5/8" I.D. x 3/4" Lg. | 46 | 741-0337 | Flange Bearing 5/8" I.D. x 15/16" Lg. |
| 15 | 717-1362 | Bevel Gear 42T Small I.D. | 48 | 611-0011 | Shift Fork Ass'y. |
| 16 | 717-1363 | Bevel Gear 42T Large I.D. | 49 | 741-0862 | Ball Detent .250" Dia. |
| 17 | 718-0228 | Clutch Collar | 50 | 732-0863 | Spring Detent |
| 18 | 717-1020 | Miter Gear 15T (H.D.) | 51 | 714-0169 | #9 Hi-Pro Key 3/16" x 3/4" Dia. HT |
| 19 | 716-0184 | Snap Ring | | | |
| 20 | 741-0589 | Thrust Bearing | 52 | 741-0335 | Needle Brg. 5/8" I.D. x 1/2" Lg. |
| 21 | 710-0862A | Pan Head Scr. 1/4-20 x .50" Lg. w/Patch | 54 | 736-0349 | Fl-Wash. 5/8" I.D. x 1" O.D. x .020 Thk. |
| 22 | 717-0539 | Axle R.H. Ass'y. | | | |
| 23 | 741-0340 | Sleeve Bearing 3/4" I.D. x 1.0" Lg. | 55 | 741-0343 | Actuating Pin 5/16" Dia. |
| | | | 56 | 710-1206 | Hex Wash Hd. Self-Tap Scr. 1/4-20 Thd. |
| 24 | 721-0179 | Oil Seal 3/4" I.D. | | | |
| 25 | 750-0767 | Axle Spacer | 57 | 717-1364 | Differential Gear 58T |
| 26 | 736-0445 | Fl-Wash. .760" I.D. x 1.5" O.D. | 58 | 736-0349 | Fl-Wash. 5/8" I.D. x 1" O.D. x .020 Thk. |
| 27 | 711-0918 | Cross Shaft | | 736-0495 | Thrust Wash. 5/8" I.D. x 1" O.D. x .025" Thk. |
| 28 | 717-1252 | Differential Can Ass'y. | | | |
| 29 | — | Part of Ref. 28 | 60 | ** | Washer (See Below) |
| 32 | ** | Washer (See Below) | — | 737-0148 | Grease—Shell (15 oz.) |

**Ref. No. 32 736-0495 Thrust Wash. 5/8" I.D. x 1" O.D. x .025" Thk.
736-0336 Fl-Wash. 5/8" I.D. x 1" O.D. x .030" Thk.
736-0494 Thrust Wash. 5/8" I.D. x 1" O.D. x .035" Thk.
736-0337 Fl-Wash. 5/8" I.D. x 1" O.D. x .040" Thk.

**Ref. No. 60 736-0492 Fl-Wash. .76" I.D. x 1.5" O.D. x .010" Thk.
736-0493 Fl-Wash. .76" I.D. x 1.5" O.D. x .020" Thk.
736-0351 Fl-Wash. .76" I.D. x 1.5" O.D. x .030" Thk.
736-0445 Fl-Wash. .76" I.D. x 1.5" O.D. x .060" Thk.

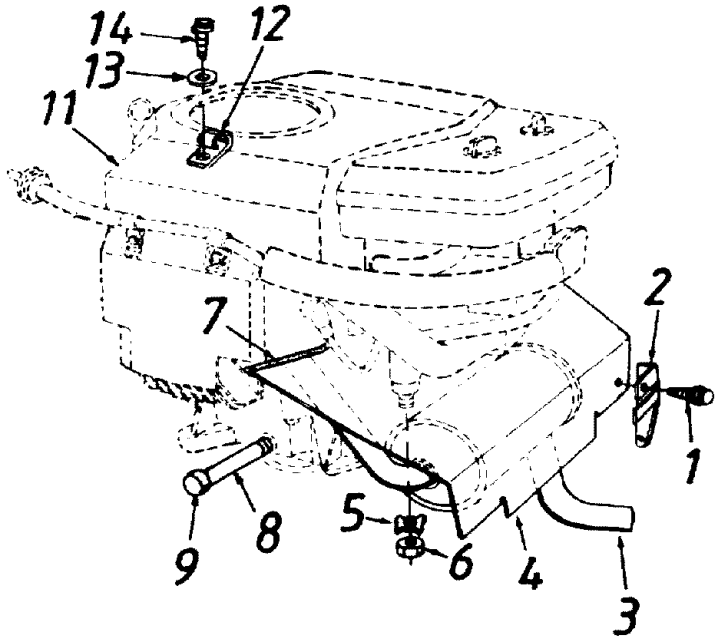
# TMO-3100002
# TMO-3395309




## PARTS LIST FOR ELECTRICAL SYSTEM

| REF. NO. | PART NO. | DESCRIPTION | REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|---|---|---|
| 1 | 725-1438 | Battery | 10 | 726-0197 | Cable Tie |
| 2 | 725-1426 | Solenoid | 11 | 725-0803C | Safety Switch (Deck) |
| 3 | 725-1625 | Fuse 7.5 Amps | 12 | 725-0759 | Safety Switch (Reverse) |
| 4 | 725-0634 | Light Switch | 13 | 725-1649 | Socket |
| 5 | 725-0925 | Ammeter | 14 | 725-0963 | Bulb (Headlight) |
| 6 | 725-0267 | Ignition Switch | 15 | 725-1303 | Safety Switch (Seat) |
| 7 | 725-3169A | Safety Switch (Clutch) | 16 | 725-0980 | Ground Wire 7.5" Lg. |
| 8 | 725-0562 | Electric Wire 32.5" Lg. | 17 | 725-1439 | Safety Switch (Seat) |
| 9 | 629-0080 | Wire Harness | — | 731-1284 | Harness Conduit (Not Shown) |

# TMO-3100002
# TMO-3395309



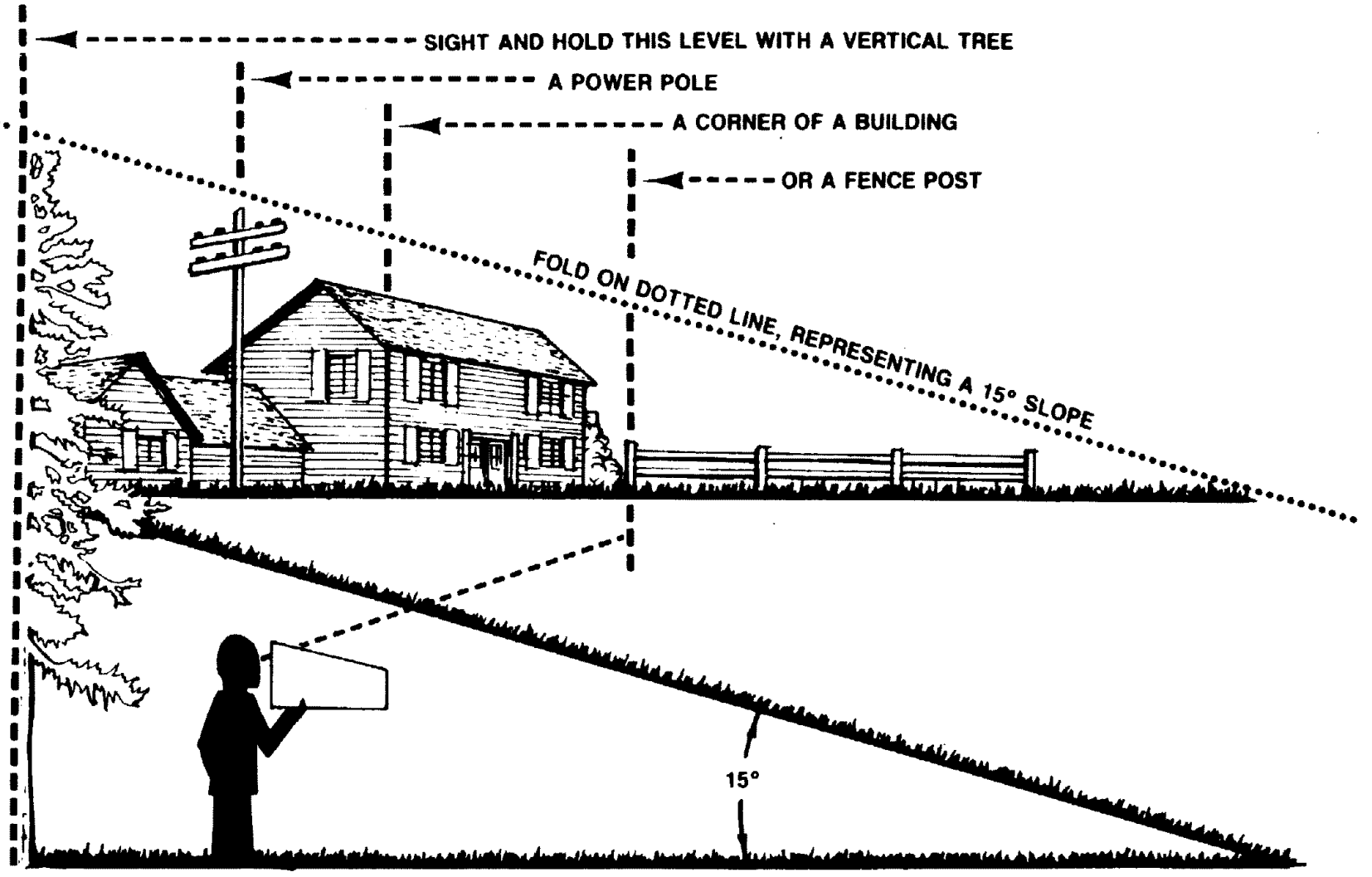

## PARTS LIST FOR LAWN TRACTORS

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 710-0776A | Hex AB-Tap Scr. 1/4 x .62" |
| 2 | 17450 | Muffler Heat Shield Mtg. Brkt.—R.H. (Not Shown) |
| | 17449 | Muffler Heat Shield Mtg. Brkt.—L.H. |
| 3 | 751-0474 | Muffler |
| 4 | 16934 | Front Heat Shield |
| 5 | 736-0170 | Spec. L-Wash. 5/16 x .88" |
| 6 | 712-0267 | Hex Nut 5/16-18 Thd. |
| 7 | 731-0511-12 | Trim Strip 12" Lg. |
| 8 | 737-0164 | Pipe Nipple |
| 9 | 737-0143 | Oil Drain Cap |
| 11 | 16 H.P. | Engine–B&S 402707-1511-01 (TMO-3395309) |
| | 18 H.P. | Engine–B&S 422707-1510-01 (TMO-3100002) |
| 12 | 726-0272 | Clamp |
| 13 | 736-3067 | FI-Wash. .188" I.D. x .438" |
| 14 | 710-0779A | Truss Mach. AB-Tap Scr. #10 x .5" Lg. |

**USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.**

# SLOPE GAUGE

(Keep in a safe place for future reference.)




**WARNING**

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2-1/2 feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

Operate RIDING mowers up and down slopes, never across the face of slopes.
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

SERVICE NATIONWIDE

**Montgomery Ward**

## HOW TO OBTAIN . REPLACEMENT PARTS AND SERVICE

The merchandise you have purchased from us has been carefully engineered and manufactured under Montgomery Ward's rigid quality standards and should give you satisfactory and dependable operation. However, like all mechanical merchandise, it may occasionally require adjustment, replacement parts or maintenance.

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When you need a replacement part or accessory for a major appliance, home electronic item or lawn and garden product that is not under warranty or covered by a service contract or if you need the location of the nearest service facility, call our Parts Sales Center toll free 1-800-323-1965.

**Provide the following:**

1. Model, serial number and all of the other data shown on the model plate.
2. Also give the part number or numbers as shown in the parts list that came with the product.

Replacement Parts will be made available at current prices. If requested, prices will be quoted in advance when not listed.

If you order parts by mail, you will pay the transportation charges from the shipping point.

UNIT MODEL NO. _____

UNIT SERIAL NO. _____

ENGINE MODEL NO. _____

TYPE NO. _____

CODE NO. _____

PART NO. 770-8087H
133P670G088
132-670G088

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