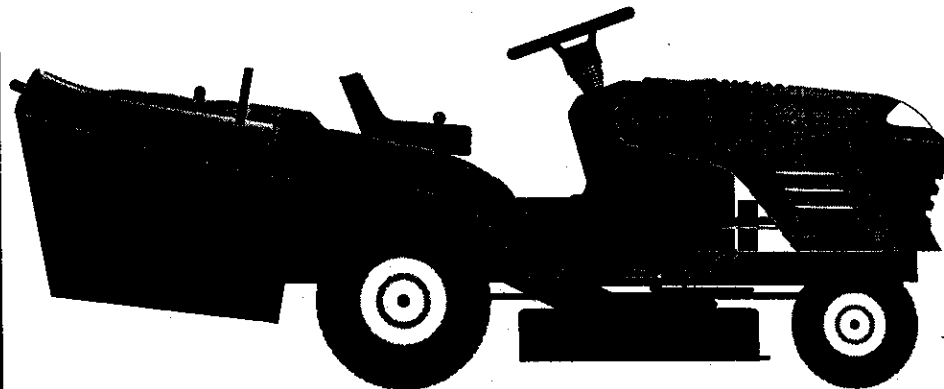


**SEARS**  
OWNER'S  
MANUAL

MODEL NO.  
944.609150

Caution:  
Read and follow  
all Safety Rules  
and Instructions  
Before Operating  
This Equipment



**CRAFTSMAN<sup>®</sup>**

**15.5 HP  
ELECTRIC START  
36" MOWER  
AUTOMATIC  
LAWN TRACTOR**

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts



# SAFETY RULES

## Safe Operation Practices for Ride-On Mowers



**IMPORTANT:** 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

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

### II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover 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, tree 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 gear so that you will not have to stop or shift while on the slope.
- 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.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

#### DO NOT:

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *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.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

### IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



Look for this symbol to point out important safety precautions. It means **CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.**



**CAUTION:** Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

**CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

MODEL NUMBER	944.609150
SERIAL NUMBER	_____
DATE OF PURCHASE	_____
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT. YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.	

### MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

### CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

### PRODUCT SPECIFICATIONS

HORSEPOWER:	15.5
GASOLINE CAPACITY AND TYPE:	1.25 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER: 3.5 PINTS W/O FILTER: 3.0 PINTS
SPARK PLUG: (GAP: .040")	CHAMPION RC12YC
VALVE CLEARANCE:	INTAKE: .003 - .005" EXHAUST: .005 - .007"
GROUND SPEED (MPH):	FORWARD: 0-5.5 REVERSE: 0-2.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	9 AMPS @ 3600RPM
BATTERY:	AMP/HR: 25 MIN. CCA: 190 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS.

**WARNING:** This tractor 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.

A spark arrester for the muffler is available through your nearest Sears Authorized Service Centre/Department (See REPAIR PARTS section of this manual).

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## LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN TRACTOR (RIDING EQUIPMENT)

For Two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

## FULL ONE (1) YEAR WARRANTY ON BATTERY

For One (1) year from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

### COMMERCIAL OR RENTAL USE

Warranty on Riding Equipment used for commercial or rental purposes is limited to ninety (90) days.

### This Warranty does NOT cover:

1. Pre-delivery set-up.
2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
4. Repairs necessary because of operator abuse or negligence, including damaged jackshaft or mandrel and the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.
5. In Home service.

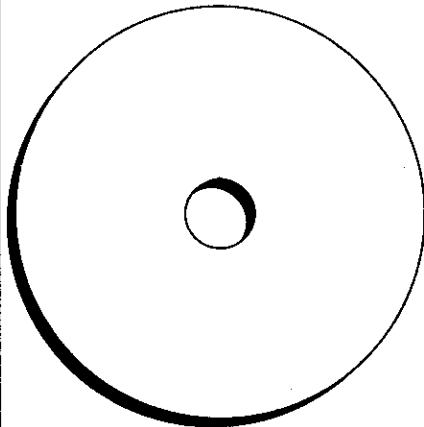
Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

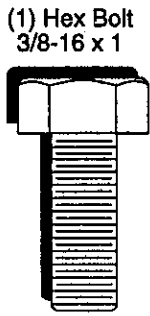
**SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8**

# CONTENTS OF HARDWARE PACK

## Parts Bag contents shown full size



(1) Large Flat Washer



(1) Hex Bolt  
3/8-16 x 1



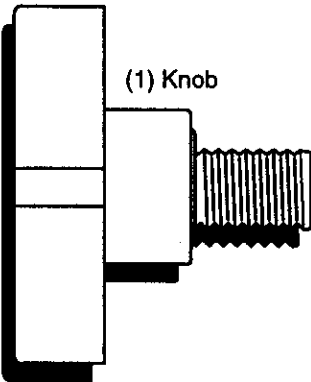
(1) Lockwasher 3/8



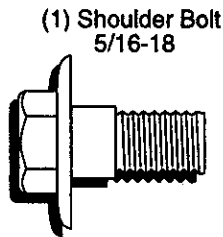
(1) Hex Bolt 5/16-18 x 1-1/4



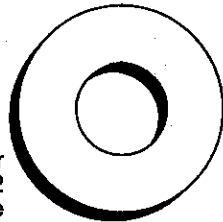
(1) Locknut 5/16-18



(1) Knob



(1) Shoulder Bolt  
5/16-18

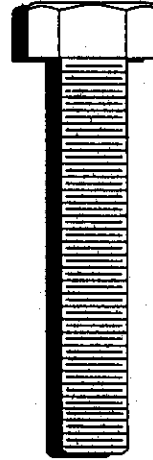


(1) Washer  
17/32 x 1-3/16 x 12  
Gauge

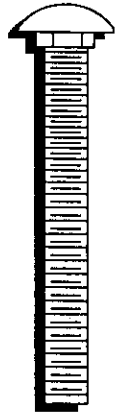


(2) Hex Bolts  
1/4-20 x 3/4

(2) Keps Nuts  
1/4-20



(2) Hex Bolt  
3/8 - 16 x 2-1/2



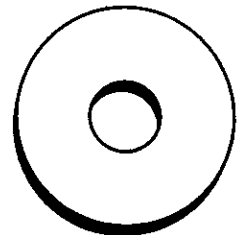
(8) Carriage Bolts  
1/4 - 20 x 2



(2) Carriage Bolts  
3/8 - 16 x 3/4



(4) Locknuts 3/8 - 16



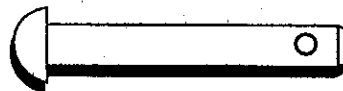
(2) Flat Washers 13/32 x 1-1/4 x 16 Gauge



(8) Flange Nut 1/4 - 20



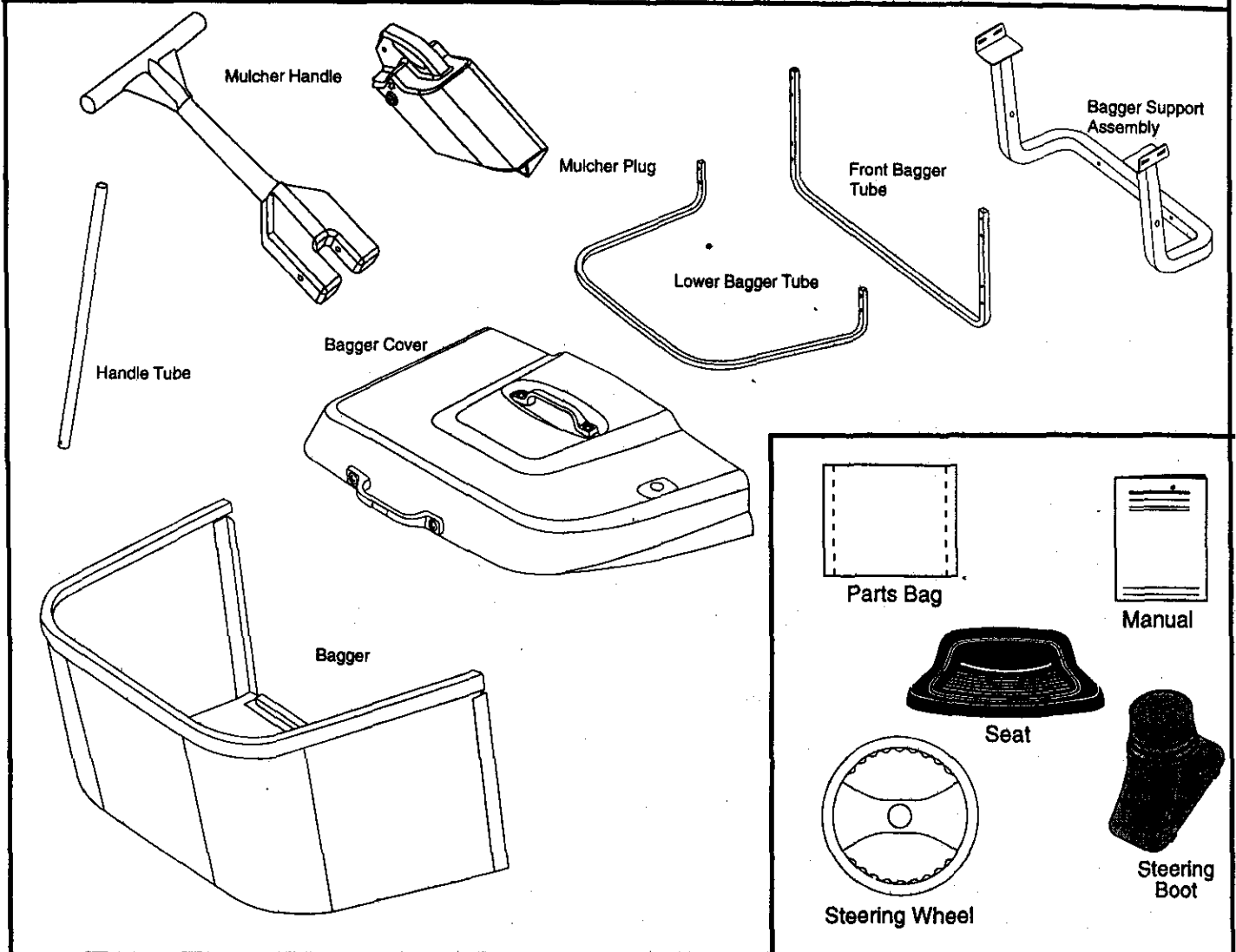
Retainer Spring



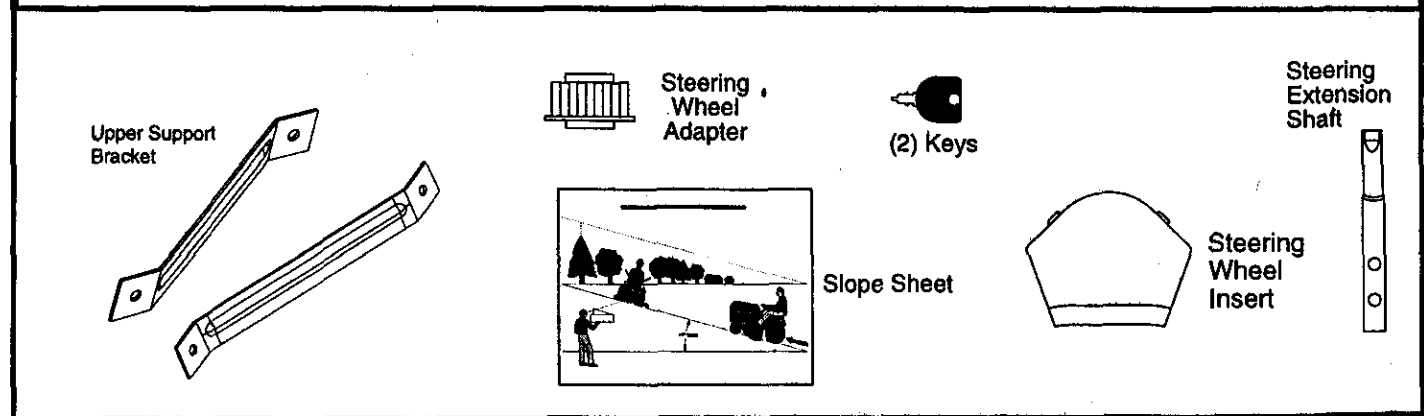
Clevis Pin

# CONTENTS OF HARDWARE PACK

## Parts packed separately in carton



## Parts bag contents not shown full size



# ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

## TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

- (2) 9/16" wrenches
- (1) 3/8" socket with drive ratchet
- (2) 7/16" wrenches
- Utility knife
- (2) 1/2" wrenches
- Tire pressure gauge

When right and left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

## TO REMOVE TRACTOR FROM CARTON

### UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 5&6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

## BEFORE ROLLING TRACTOR OFF SKID

### ATTACH STEERING WHEEL (See Fig. 1)

#### ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

**IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 18-22 FT. LBS TORQUE.**

- Place tabs of steering boot over tab slots in dash and push down to secure.

#### INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

**IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.**

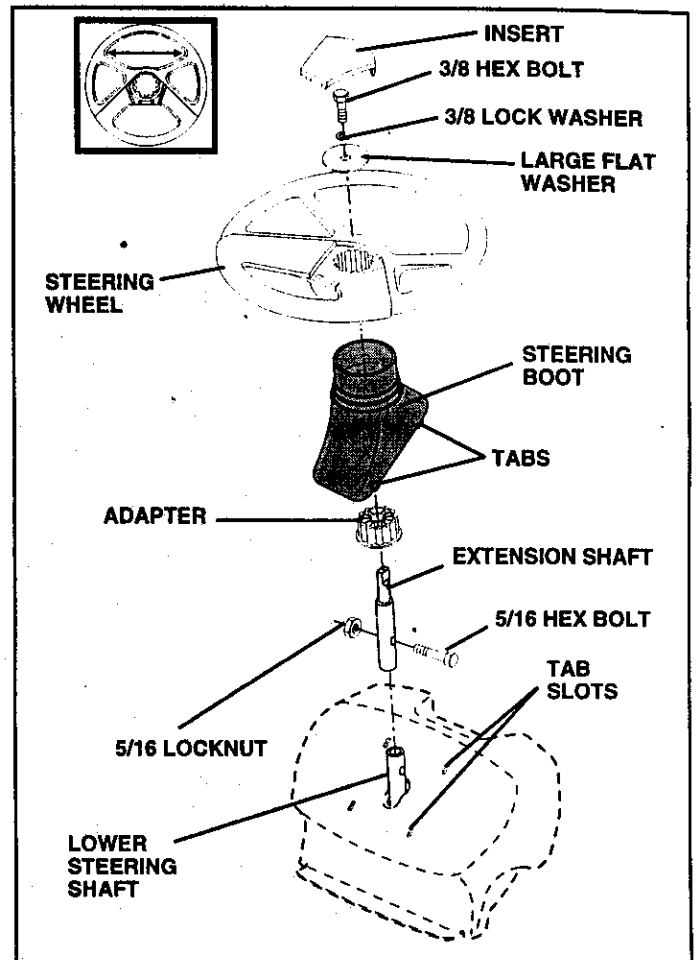


FIG. 1

### TO ROLL TRACTOR OFF SKID (See Operation section, page 13, for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding discharge guard up against tractor.

# ASSEMBLY

## HOW TO SET UP YOUR TRACTOR

### CONNECT BATTERY (See Figs. 2)



**CAUTION:** Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

**Positive terminal must be connected first to prevent sparking from accidental grounding.**

- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- Remove battery cover.
- Remove terminal protective caps and discard.
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- Replace battery cover.

Open battery cover for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging .

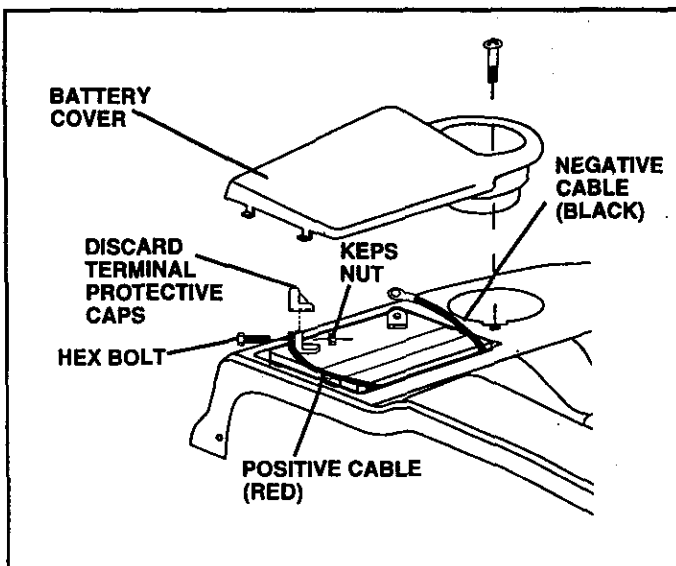


FIG. 2

### INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

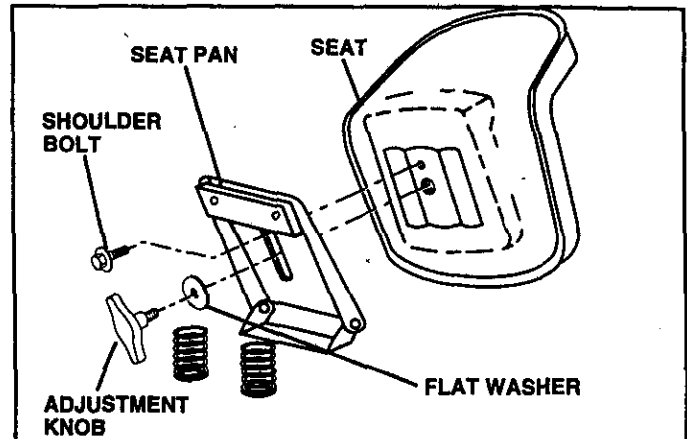


FIG. 3



# ASSEMBLY

## TO INSTALL BAGGER COMPONENTS TO TRACTOR (See Figs. 4-7)

- Remove discharge chute from rear of tractor. Unhook the two (2) straps and pull chute out and away from tractor.
- Remove the two (2) 3/8 nuts and flat washers from the bolts at the tractor back plate.

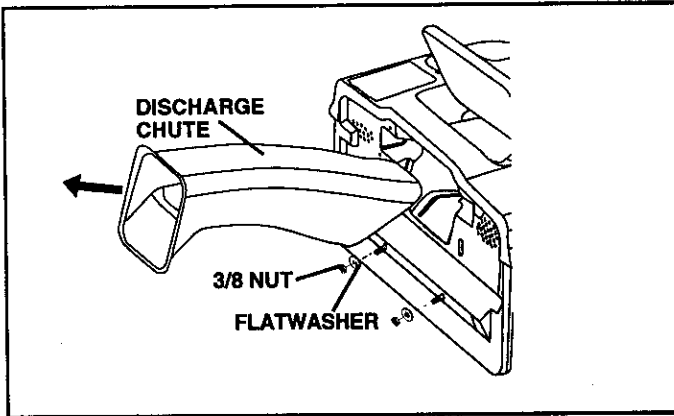


FIG. 4

- Using the nuts and flat washers removed from back plate, install the bagger support tube to the back plate as shown. Tighten securely.

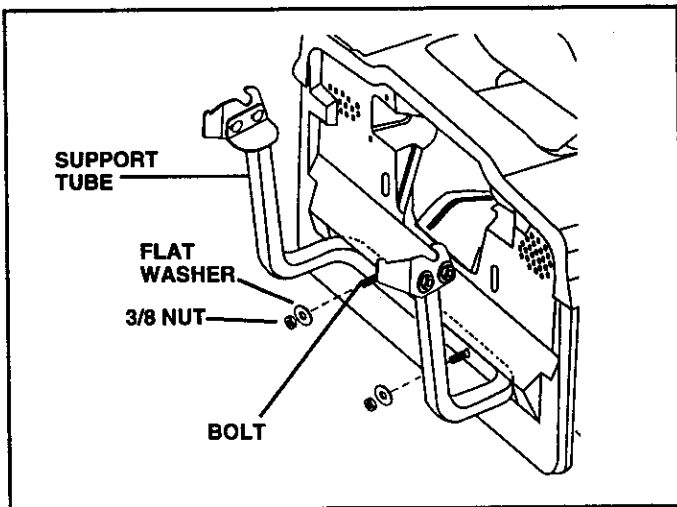


FIG. 5

- While holding the rear door open, install the two upper support brackets through the back plate and to the chassis, using the 3/8 x 3/4 carriage bolts and locknuts supplied. Tighten securely.
- Assemble as shown both upper support brackets to the outside of the bagger support tube using the two 3/8 x 2-1/2 hex bolts, two each 13/32" I.D. flat washers and 3/8 locknuts from parts bag. Tighten securely.

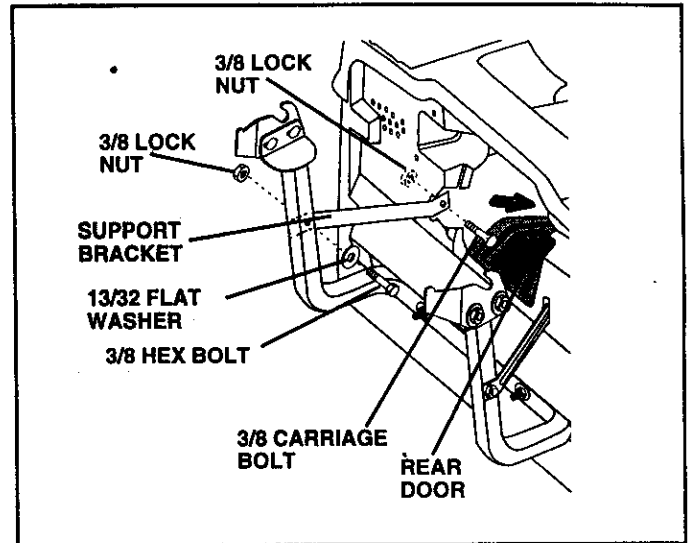


FIG. 6

- Replace discharge chute into rear opening of tractor. Secure the chute with the two hook straps.

**NOTE:** The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. This will allow the discharge chute to float with the mower deck when mowing on uneven terrain.

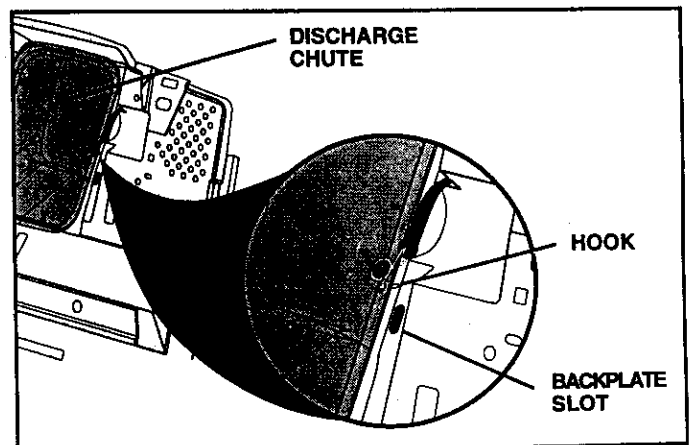


FIG. 7

# ASSEMBLY

## TO ASSEMBLE BAGGER (See Figs.8 & 9)

**NOTE:** For ease of assembly, you may wish to obtain the assistance of another person when putting the bagger together.

- Assemble front and lower bagger tubes using four (4) each 1/4 x 2" carriage bolts and lock nuts supplied. Tighten securely.

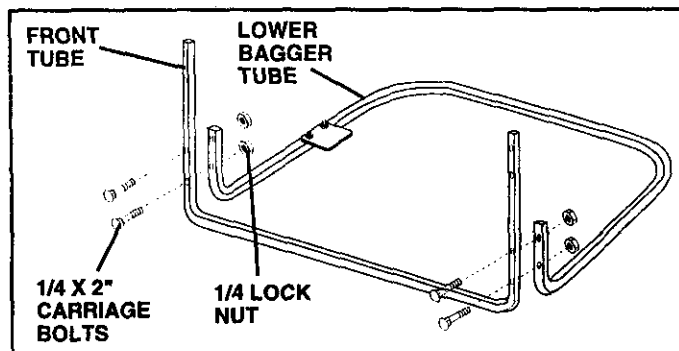


FIG. 8

- Slide front and lower bagger tube assembly into the bagger assembly.
- Assemble front and upper bagger tubes using four (4) each 1/4 x 2" carriage bolts and lock nuts supplied. Tighten securely.
- Slip all the vinyl bindings over the bagger tubes.
- Slide the bagger dump handle through the hole in the bagger top, install the clevis pin and secure with retainer spring.

**NOTE:** For future use, the clevis pin may be removed in order to use the handle to clear the chute in the event it has become clogged.

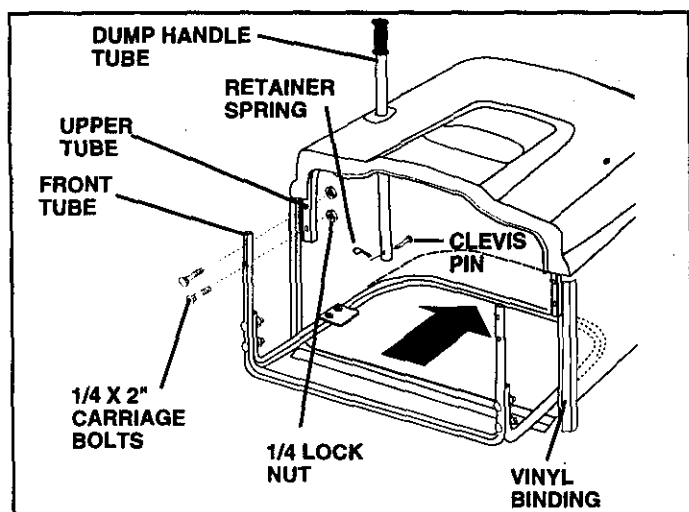


FIG. 9

## BAGGER ADJUSTMENT (See Fig.10)

For proper bag function and appearance, it may be necessary to adjust the bagger assembly. There should be 6mm (1/4") - 9mm (3/8") gap between the bagger top and fender and the bagger top surface should be even with the top surface of the fender. To adjust bagger position:

- Loosen slightly the nuts securing the bagger pivot brackets. Loosen only enough so the brackets keep their position, but allow them to be moved. Move the brackets the amount in the direction you wish the bag assembly to move. Retighten the nuts securely.
- Reinstall the bagger assembly and check the bagger to fender fit. If necessary, repeat the procedure until proper fit is attained.

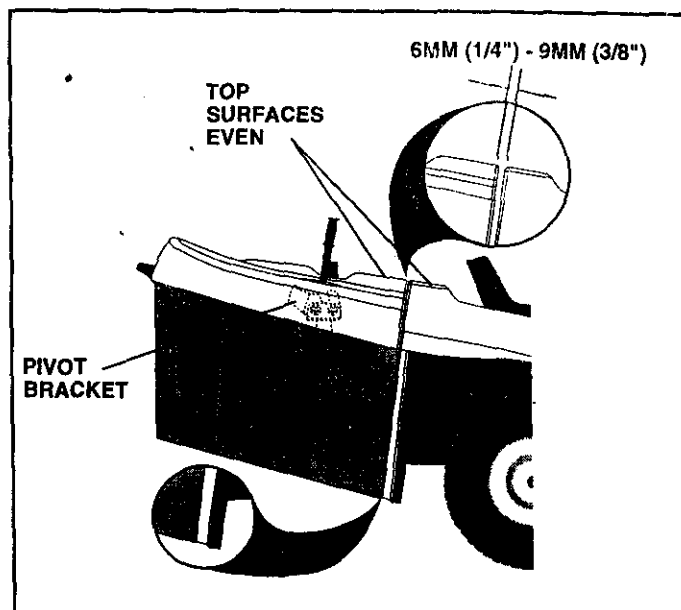


FIG. 10

## TO ASSEMBLE AND INSTALL MULCHER PLUG (See Fig. 11)

- Remove spring retainer and pin from handle.
- Insert plug into handle. Make sure that the letter "A" on both the plug and handle are on the same side and that they can both be seen from the top when laying on the ground.
- Secure with pin and retainer spring provided. For installation see "To Convert Mower" in Operation section of this manual.

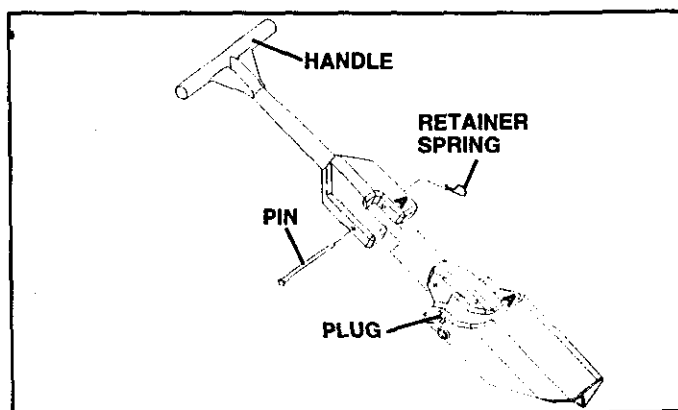


FIG. 11

## TO CONVERT TO BAGGING, MULCHING OR DISCHARGING

See "Operation" section of this manual.

# ASSEMBLY

## TO ADJUST GAUGE WHEELS (See Fig. 12)

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

- Adjust gauge wheels with tractor on a flat level surface.
- Adjust mower to desired cutting height (See "TO ADJUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

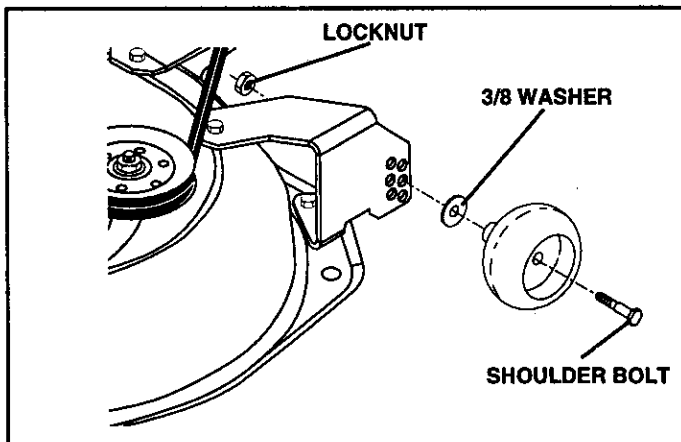


FIG. 12

## CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

## CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

## CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

## CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

## ✓ CHECKLIST

*BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.*

*PLEASE REVIEW THE FOLLOWING CHECKLIST:*

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in drive position.

*WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:*

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

# OPERATION

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



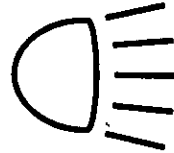
ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



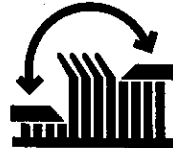
MOWER LIFT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR



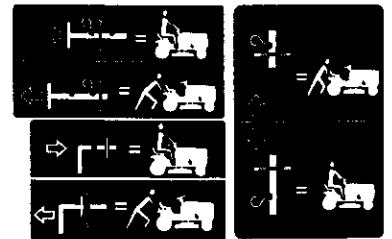
SLOPE HAZARDS



(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY



FREE WHEEL  
(Automatic Models only)

# OPERATION

## KNOW YOUR TRACTOR

### READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

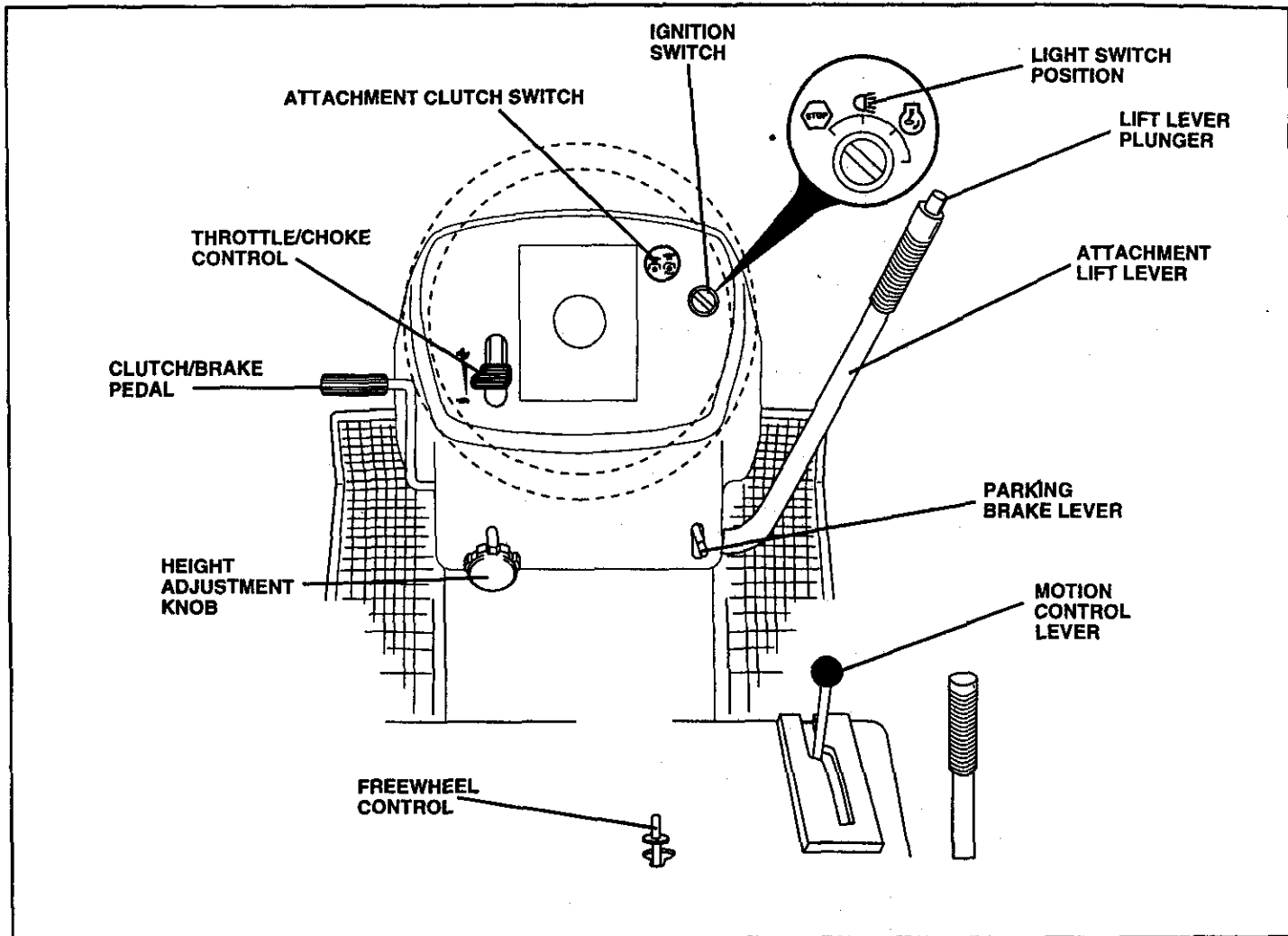


FIG. 13

Our tractors conform to the safety standards of the American National Standards Institute.

**THROTTLE/CHOKE CONTROL:** Used for starting and controlling engine speed.

**CLUTCH/BRAKE PEDAL:** Used for clutching and braking the tractor and starting the engine.

**HEIGHT ADJUSTMENT KNOB:** Used to adjust the mower cutting height.

**IGNITION SWITCH:** Used for starting and stopping the engine.

**LIGHT SWITCH:** Turns the headlights on and off.

**FREEWHEEL CONTROL:** Disengages transmission for pushing or slowly towing the tractor with the engine off.

**ATTACHMENT CLUTCH SWITCH:** Used to engage the mower blades, or other attachments mounted to your tractor.

**LIFT LEVER PLUNGER:** Used to release attachment lift lever when changing its position.

**ATTACHMENT LIFT LEVER:** Used to raise and lower the mower deck or other attachments mounted to your tractor.

**PARKING BRAKE LEVER:** Locks Clutch/Brake Pedal into the brake position.

**MOTION CONTROL LEVER:** Selects the speed and direction of tractor.

# OPERATION



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

## HOW TO USE YOUR TRACTOR

### TO SET PARKING BRAKE (See Fig. 14)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine. Your tractor is also equipped with a system that will not allow mower to operate if the bagger or optional rear discharge deflector is not installed properly.

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

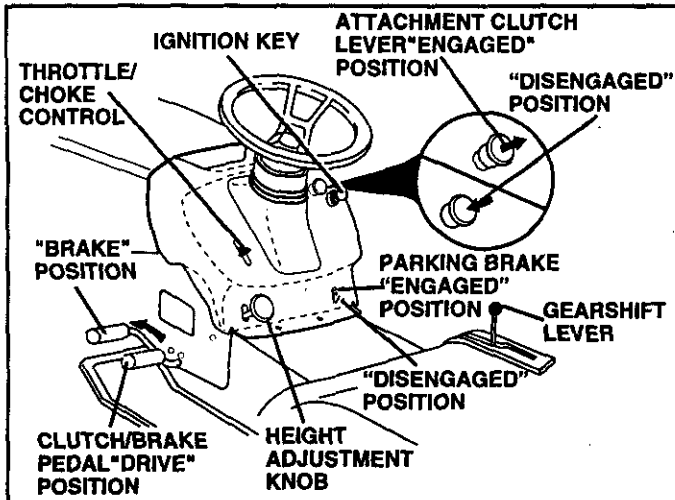


FIG. 14

### STOPPING (See Fig. 14)

#### MOWER BLADES -

- To stop mower blades, move attachment clutch switch to "DISENGAGED" position.

#### GROUND DRIVE -

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position..
- Move motion control lever to neutral (N) position.

**IMPORTANT:** THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

#### ENGINE -

- Move throttle control to slow position.

**NOTE:** Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.

- Never use choke to stop engine.

**IMPORTANT:** LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

**NOTE:** Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



**CAUTION:** Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

### TO USE THROTTLE CONTROL (See Fig. 14)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best bagging and mower performance.

### TO MOVE FORWARD AND BACKWARD (See Fig. 14)

The direction and speed of movement is controlled by the motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/brake pedal.
- Slowly move motion control lever to desired position.

### TO ADJUST MOWER CUTTING HEIGHT (See Fig. 14)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise (↻) to raise cutting height.
- Turn knob counterclockwise (↺) to lower cutting height.

The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

# OPERATION

## TO OPERATE MOWER (See Fig. 15)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

Your tractor is also equipped with a system that will not allow mower to operate if the bagger or optional rear discharge deflector is not installed properly.

- Select desired height of cut.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.

**NOTE:** Vibration at mower startup is normal.

- TO STOP MOWER BLADES - disengage attachment clutch control.

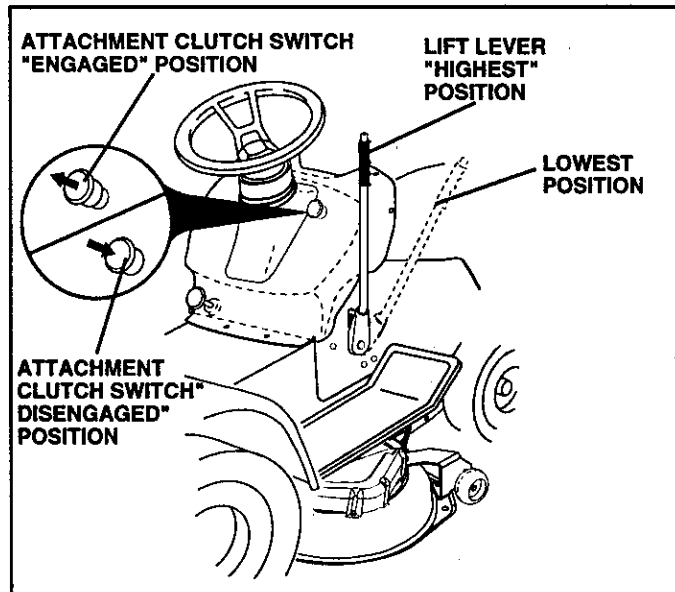
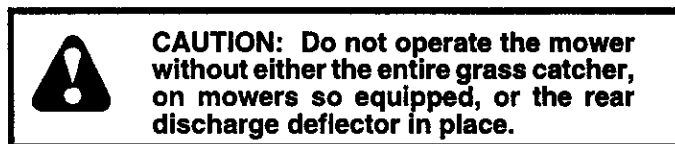
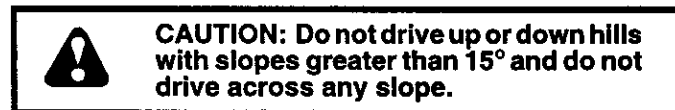


FIG. 15

## TO OPERATE ON HILLS



- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

**IMPORTANT:** THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

## TO TRANSPORT (See Figs. 13 and 16)

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located under the seat.

- Raise attachment lift to highest position with attachment lift control.
- Raise seat and pull freewheel control up and back into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

**NOTE:** To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

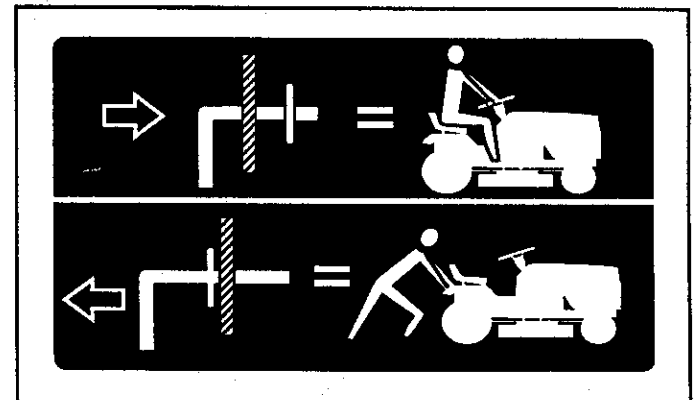


FIG. 16

## BEFORE STARTING THE ENGINE

### CHECK ENGINE OIL LEVEL (See Fig. 23)

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

# OPERATION

## ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

**IMPORTANT:** WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

**WARNING:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



**CAUTION:** Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

## TO START ENGINE (See Fig. 14)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to choke position.

**NOTE:** Before starting, read the warm and cold starting procedures below.

- Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, move throttle control to fast position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke position and retry.

## WARM WEATHER STARTING (50° F and above)

- When engine starts, move the throttle control to the fast position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

## COLD WEATHER STARTING ( 50° F and below)

- When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

## AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
  - Be sure the tractor is on level ground.
  - Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
  - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can also be used during the engine warm-up period after the transmission has been warmed up.

**NOTE:** If at a high altitude (above 3000 feet) or in cold temperatures (below 32 F) the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

## PURGE TRANSMISSION



**CAUTION:** Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

**IMPORTANT:** SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.

**NOTE:** During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.



# OPERATION

- Move motion control lever to neutral (N) position. Shut-off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and now ready for normal operation.

## MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

## MULCHING MOWING TIPS

**IMPORTANT:** FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 17). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

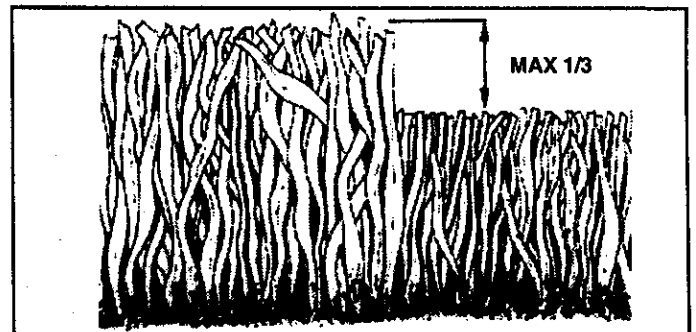


FIG. 17

# OPERATION

## TO DUMP BAGGER (See Fig.18)

Your tractor is equipped with a Dump Bag Alarm. To turn off the alarm disengage the attachment clutch switch.

- Position tractor in location you wish to dump bagger.
- Place motion control lever in Neutral position and set parking brake.
- Raise dump handle to its highest position. Pull handle forward to raise bagger and dump clippings.
- To continue mowing, be sure bagger is down and in proper operating position which will allow mower to operate.

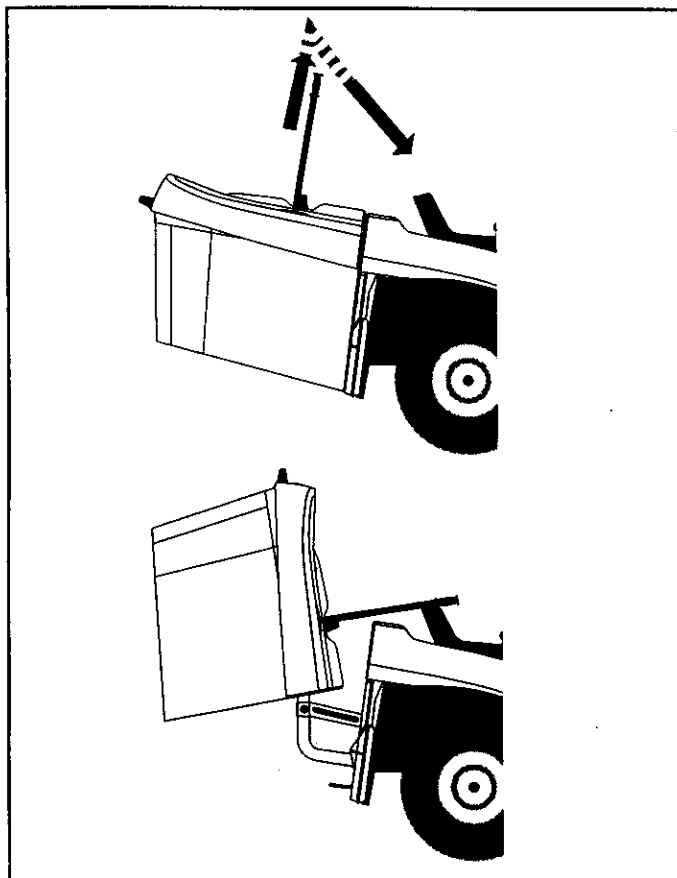


FIG. 18

## TO CONVERT MOWER

(Converting to mulching or rear discharging will require the purchase of these accessories.)

### TO MULCHING

- Place deck into the high cut position.
- Remove bagger or optional rear discharge deflector.
- Unhook the two (2) straps and remove discharge chute
- Insert plug and handle assembly through back plate and onto the mower deck chute adaptor.
- Retain the plug assembly by connecting the two straps over the handle and hook into the holes provided (See Fig. 19A).
- Replace bagger or optional rear discharge deflector to allow mower to operate.

You are now ready to begin mulching.

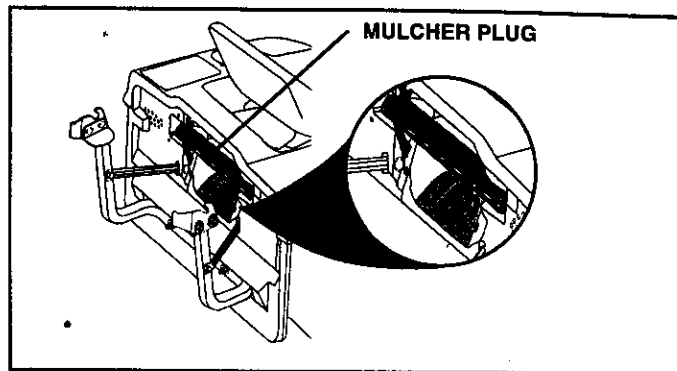


FIG. 19A

### TO BAGGING

- Place deck into the high cut position.
- Remove the rear discharge deflector or mulching plug.
- Insert the discharge chute into the opening in the backplate and onto the mower deck adaptor.
- Attach the chute to the tractor by hooking the two straps to the flange of the chute.

**NOTE:** The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. This will allow the discharge chute to float with the mower deck when mowing on uneven terrain (See Fig. 19B).

- Install bagger onto tractor.

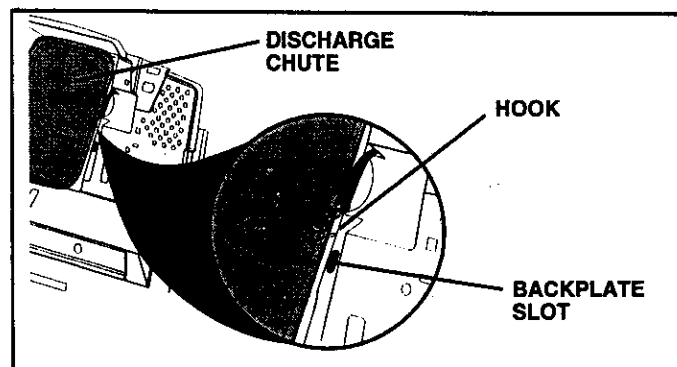


FIG. 19B

### TO REAR DISCHARGING (optional accessory)

- Place deck into the high cut position.
- Remove bagger and mulching plug (if installed).
- Depress rear door and install discharge chute through opening in backplate and slide over deck adaptor.
- Attach the chute by hooking the two straps into the holes in the flange of the chute.

**NOTE:** The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. This will allow the discharge chute to float with the mower deck when mowing on uneven terrain (See fig. 19B).

- Install the discharge deflector to the backplate by screwing the four (4) wing screws into the threaded inserts located in the backplate.
- Tighten the wing screws securely.

# MAINTENANCE

MAINTENANCE SCHEDULE		SERVICE DATES						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
TRACTOR	Check Brake Operation	✓	✓					
	Check Tire Pressure	✓	✓					
	Check Operator Presence and Interlock Systems	✓						
	Check for Loose Fasteners	✓			✓ <sub>7</sub>	✓		
	Sharpen/Replace Mower Blades			✓ <sub>4</sub>			✓	
	Lubrication Chart			✓			✓	
	Check Battery Level			✓ <sub>6</sub>				
	Clean Battery and Terminals			✓			✓	
	Check Transaxle Cooling			✓				
	Adjust Blade Belt(s) Tension					✓ <sub>5</sub>		
	Adjust Motion Drive Belt(s) Tension					✓ <sub>5</sub>		
ENGINE	Check Engine Oil Level	✓	✓					
	Change Engine Oil			✓ <sub>1,2,3</sub>			✓	
	Clean Air Filter			✓ <sub>2</sub>				
	Clean Air Screen			✓ <sub>2</sub>				
	Inspect Muffler/Spark Arrester				✓			
	Replace Oil Filter (If equipped)					✓ <sub>1,2</sub>		
	Clean Engine Cooling Fins					✓ <sub>2</sub>		
	Replace Spark Plug					✓	✓	
	Replace Air Filter Paper Cartridge					✓ <sub>2</sub>		
Replace Fuel Filter						✓		

- 1 - Change more often when operating under a heavy load or in high ambient temperatures.  
 2 - Service more often when operating in dirty or dusty conditions.  
 3 - If equipped with oil filter, change oil every 50 hours.  
 4 - Replace blades more often when mowing in sandy soil.  
 5 - If equipped with adjustable system.  
 6 - Not required if equipped with maintenance-free battery.  
 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

## GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

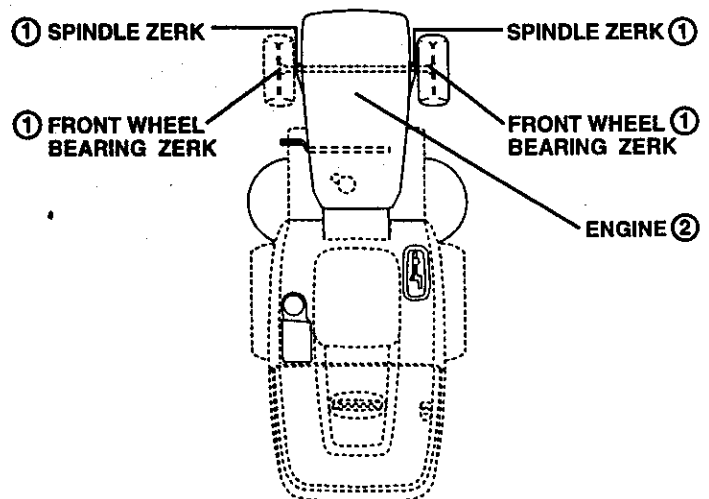
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

## BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

## LUBRICATION CHART



- ① GENERAL PURPOSE GREASE  
 ② REFER TO MAINTENANCE "ENGINE" SECTION

**IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.**

# MAINTENANCE

## TRACTOR

Always observe safety rules when performing any maintenance.

## BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

## TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

## OPERATOR PRESENCE SYSTEM

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the clutch/brake pedal is fully depressed and attachment clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.
- When the engine is running and the bagger or optional deflector are not installed the mower should not operate.

## BLADE CARE

**IMPORTANT:** The blades on your mower are not the same and must be installed on the correct side. It is suggested that you work on one blade at a time to ensure proper assembly of components.

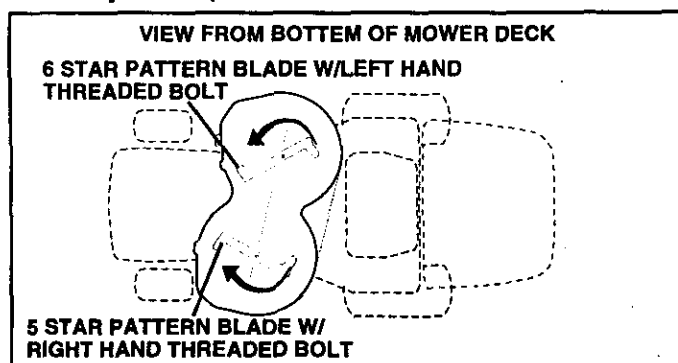


FIG. 20

## 5 STAR PATTERN BLADE (See Fig. 21A)

The center of this blade has a five (5) star pattern. The bolt that attaches this blade has normal **Right Hand threads** that loosens by turning (⤵) counter-clockwise and tightens by turning (⤴) clockwise.

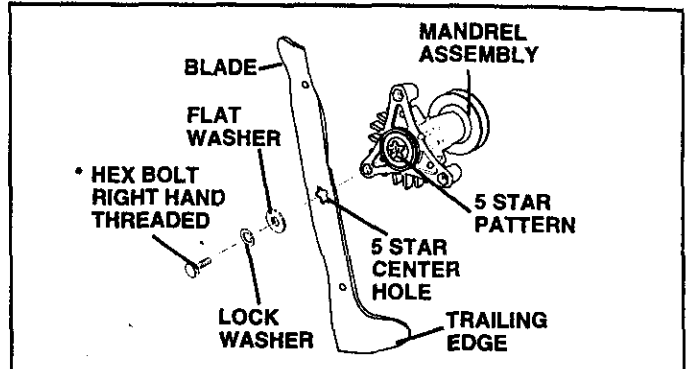


FIG. 21A

## 6 STAR PATTERN BLADE (See Fig. 21B)

The center of this blade has a 6 star pattern. The bolt attaching this blade has **Left Hand threads** that loosens by turning (⤴) clockwise and tightens by turning (⤵) counter-clockwise.

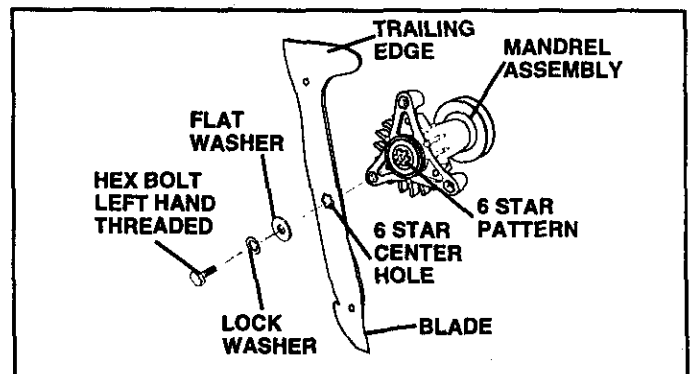


FIG. 21B

For best results mower blades must be kept sharp. Replace bent or damaged blades.

### BLADE REMOVAL

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

**IMPORTANT:** To ensure proper assembly, center hole in blade must align with star on mandrel assembly.

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (27-35 Ft. Lbs. torque).

**IMPORTANT:** Blade bolt is grade 8 heat treated

# MAINTENANCE

## BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

**NOTE:** The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

## TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove battery cover.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "CONNECT BATTERY" in the Assembly section of this manual).

## V-BELTS

Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

## TRANSAXLE COOLING

The fan and cooling fins of transmission should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

## TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

## ENGINE

### LUBRICATION

Only use high quality detergent oil rated with API service classification SF, SG, or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.

**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils

will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

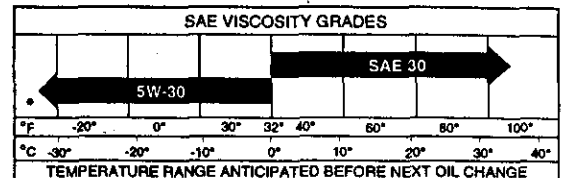


FIG. 22

## TO CHANGE ENGINE OIL (See Fig. 23)

Determine temperature range expected before oil change. All oil must meet API service classification SF, SG or SH.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

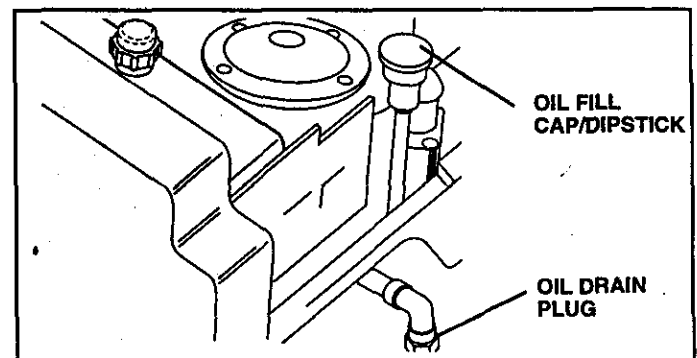


FIG. 23

## AIR FILTER (See Fig. 24)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.

## TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.

# MAINTENANCE

- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

## TO SERVICE CARTRIDGE

- Remove cartridge nut.
- Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, pre-cleaner, cover and secure with knob(s).

**IMPORTANT:** PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

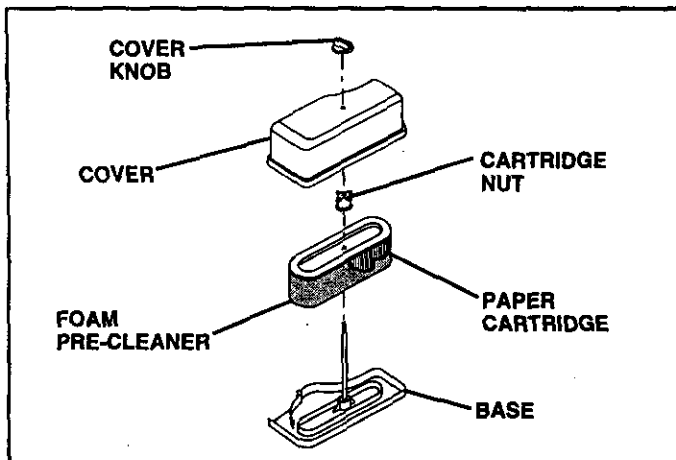


FIG. 24

## CLEAN AIR SCREEN (See Fig. 25)

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

## ENGINE COOLING FINS (See Fig. 25)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

- Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
- Cover oil fill opening to prevent entry of dirt.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- To reassemble, reverse above procedure.

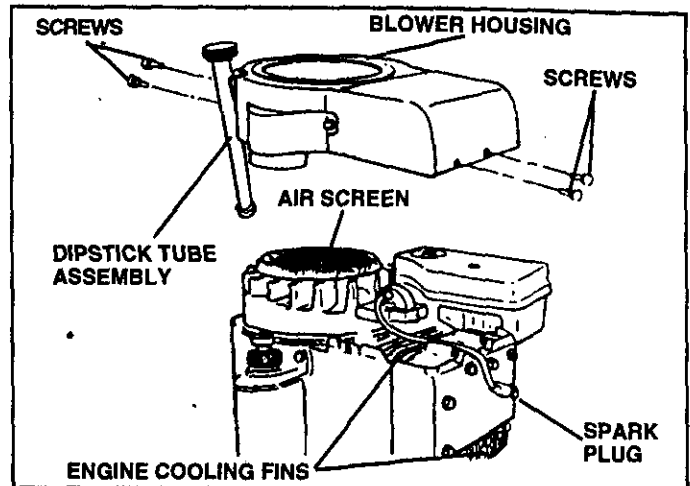


FIG. 25

## MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

## SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

## IN-LINE FUEL FILTER (See Fig. 26)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

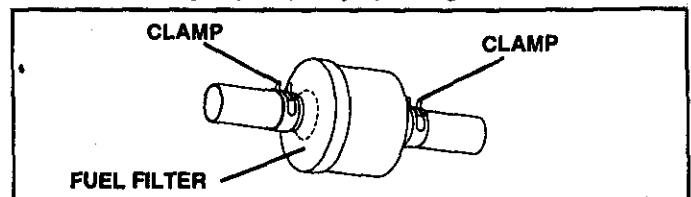


FIG. 26

## CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

# SERVICE AND ADJUSTMENTS



## CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

## TRACTOR

### TO REMOVE MOWER (See Fig. 27)

Mower will be easier to remove from the right side of tractor.

- Place attachment clutch switch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off electric clutch pulley.
- Disconnect anti-sway bar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

**IMPORTANT:** IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINKS.

### TO INSTALL MOWER (See Fig. 27)

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- Slide mower under tractor with discharge opening to the rear of the tractor.

**IMPORTANT:** Check belt for proper routing in all mower pulley grooves.

- Install belt into electric clutch pulley groove.
- Install left front link into the left hand front mower bracket (retain with single loop retainer springs as shown).
- Slide right side of mower back and install right front link into right hand front mower bracket (retain with single loop retainer springs).
- Place the suspension arms on mower pins, if necessary, rock and raise front of mower to align mower pins with the holes in suspension arms. Retain with double loop retainer spring, loop down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Raise deck to highest position.

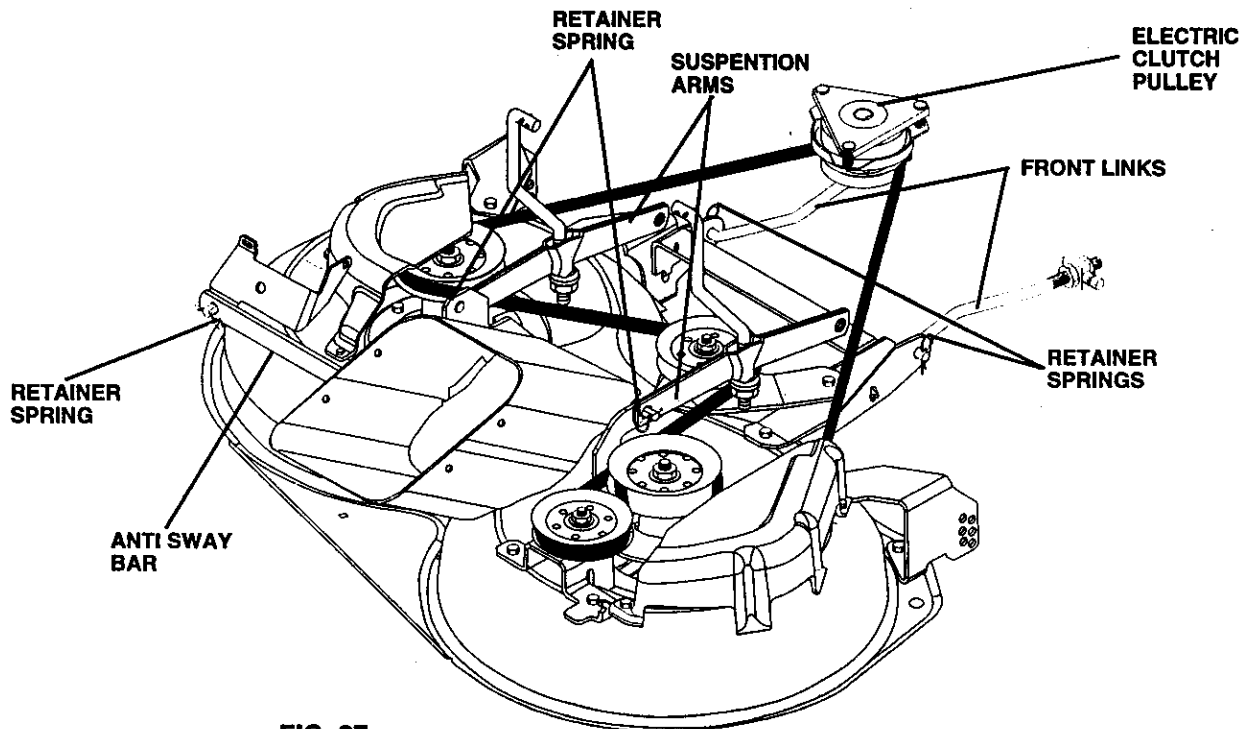


FIG. 27

# SERVICE AND ADJUSTMENTS

## TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

### SIDE-TO-SIDE ADJUSTMENT (See Figs. 28 and 29)

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE:** Each full turn of adjustment nut will change mower height about 1/8".

- Recheck measurements after adjusting.

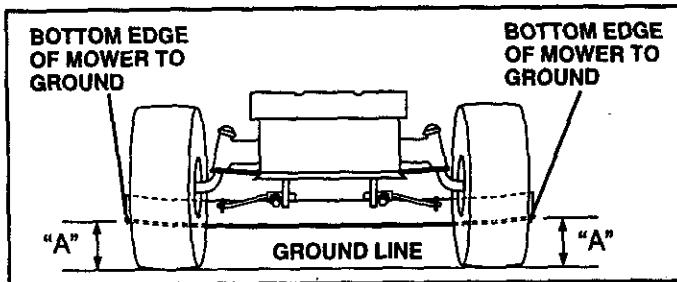


FIG. 28

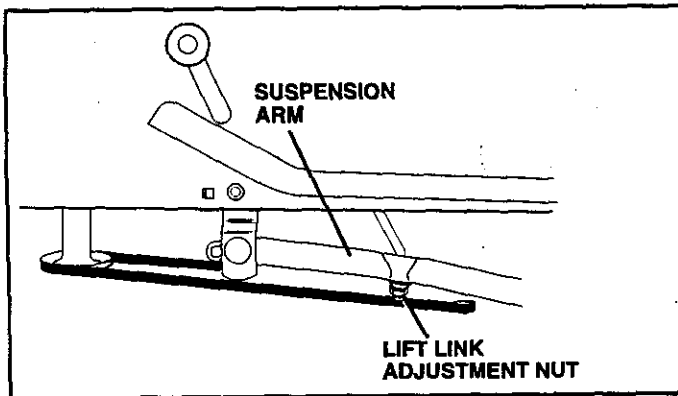


FIG. 29

### FRONT-TO-BACK ADJUSTMENT (See Figs. 30 and 31)

**IMPORTANT:** DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

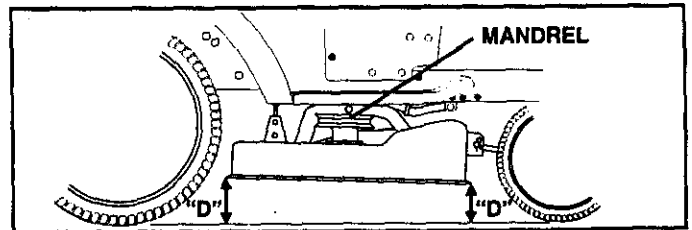


FIG. 30

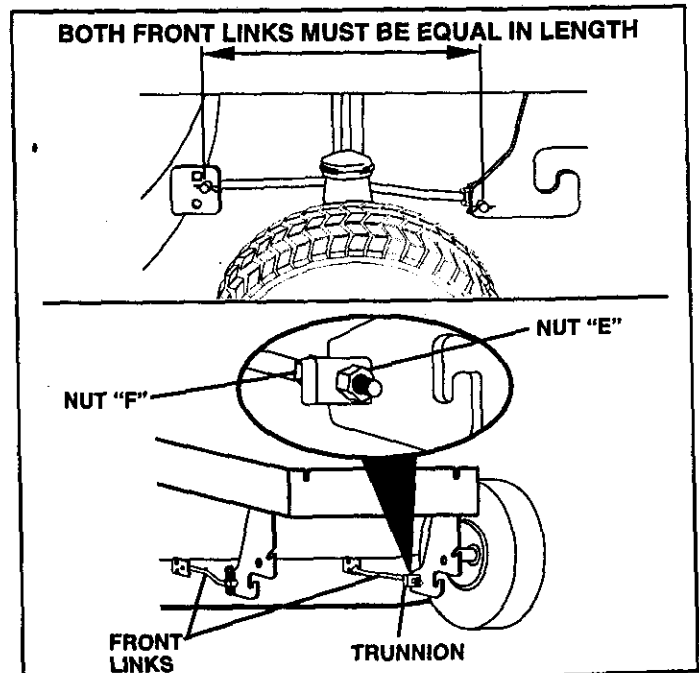


FIG. 31



# SERVICE AND ADJUSTMENTS

## TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 32)

Park the tractor on level surface. Engage parking brake.

### BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws from RH mandrel cover and remove cover.
- Remove screws from LH mandrel cover and remove cover.
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

### BELT INSTALLATION -

- Install new belt in reverse order of removal. See belt routing decal located on right mandrel cover.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install left and right mandrel covers and tighten securely. Make sure belt is in mandrel pulley cover.
- Install mower (see "To install mower" in this section of this manual).

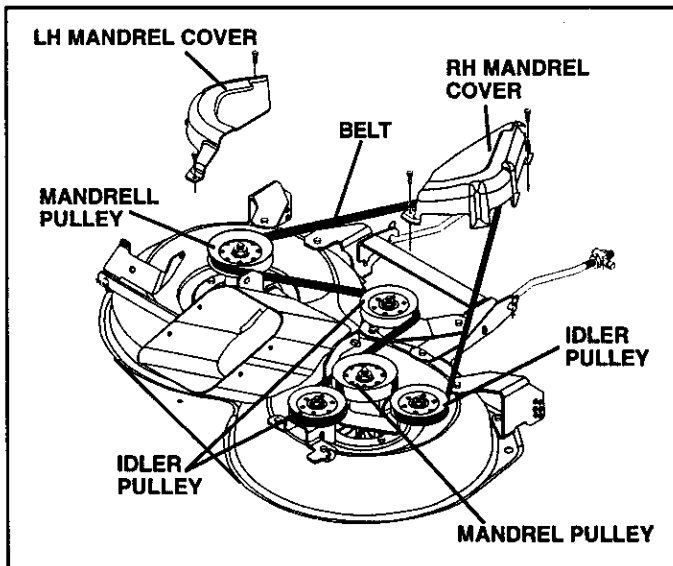


FIG. 32

## TO ADJUST BRAKE (See Fig. 33)

Your tractor is equipped with an adjustable brake system which is mounted on the side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

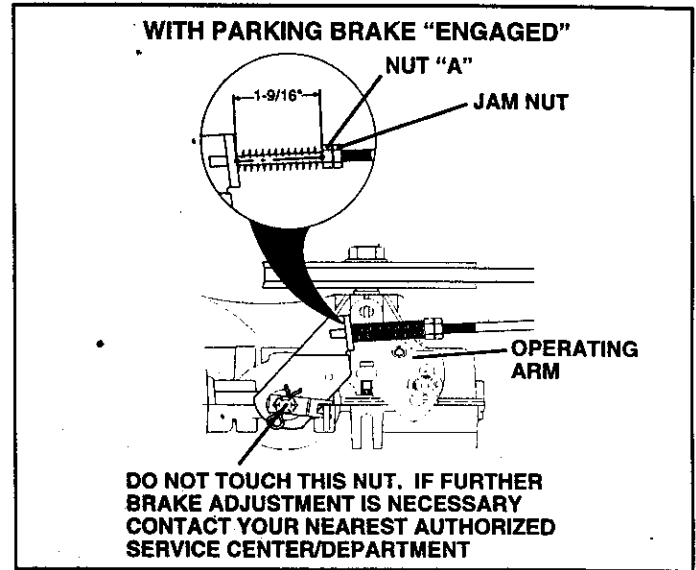


FIG. 33

## TO REPLACE MOTION DRIVE BELT (See Fig. 34)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Disconnect clutch wire harness.
- Remove clutch locator.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downwards from around electric clutch.
- Install new belt by reversing above procedure.

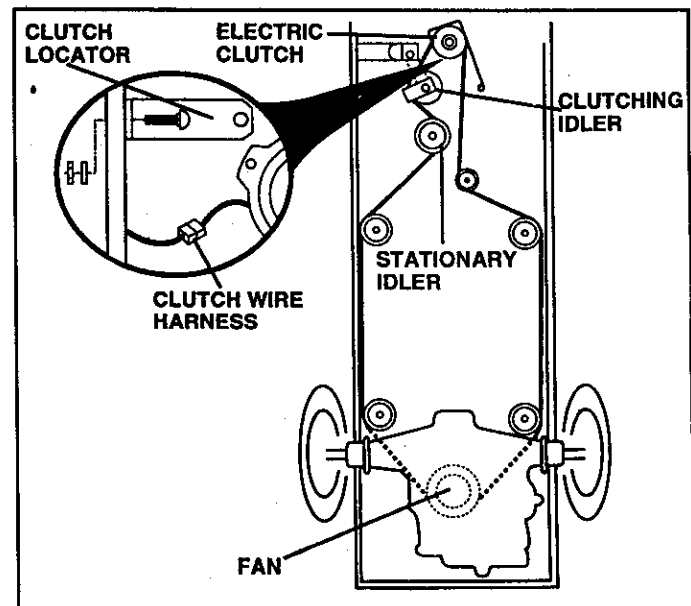


FIG. 34

# SERVICE AND ADJUSTMENTS

## TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 35)

The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

**NOTE:** If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

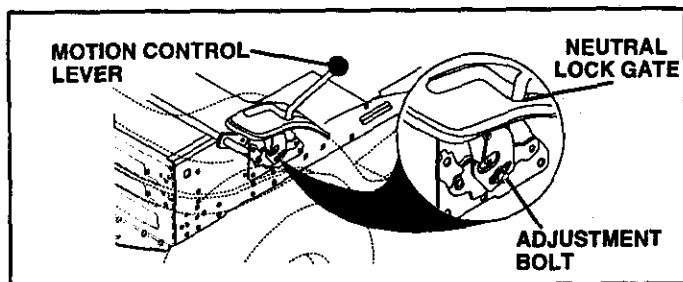


FIG. 35

## TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.

## TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

## FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN (See Fig. 36) -

- Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN (See Figs. 36 and 37) -

- Loosen jam nuts at adjustment sleeves on tie rod.
- Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
- Tighten jam nuts securely.

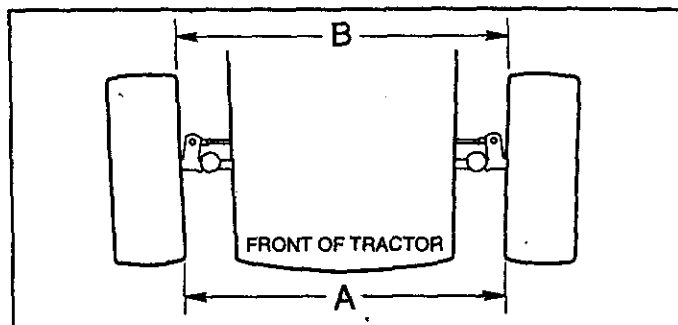


FIG. 36

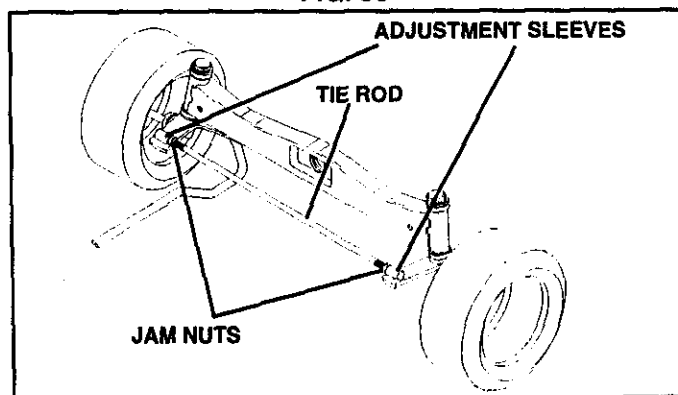


FIG. 37

## FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center/department.

## TO REMOVE WHEEL FOR REPAIRS (See Fig. 38)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

# SERVICE AND ADJUSTMENTS

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

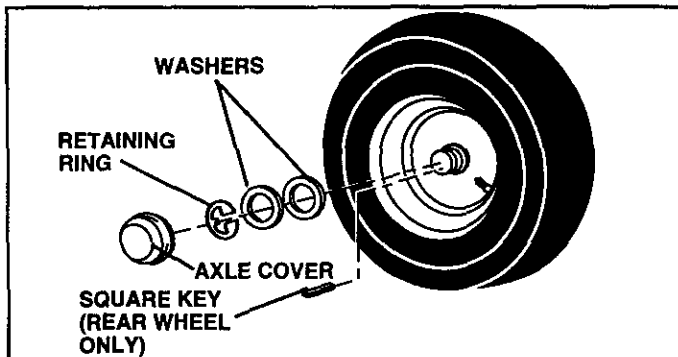


FIG. 38

## TO START ENGINE WITH A WEAK BATTERY (See Fig. 39)



**CAUTION:** Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

**IMPORTANT:** YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUND SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUND SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

### TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

### TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.

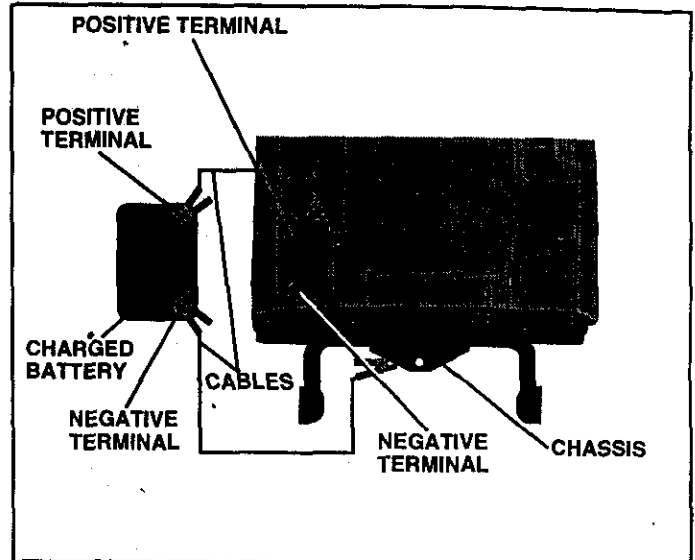


FIG. 39

## TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

## INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

- Check wiring. See electrical wiring diagram in Repair Parts section of this manual.

## TO REPLACE FUSE

Replace with 15 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

## TO REMOVE HOOD AND GRILL (See Fig. 40)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

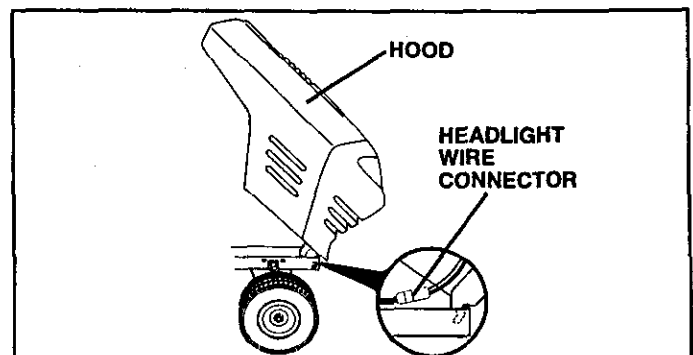


FIG. 40

# SERVICE AND ADJUSTMENTS

## ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 41)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

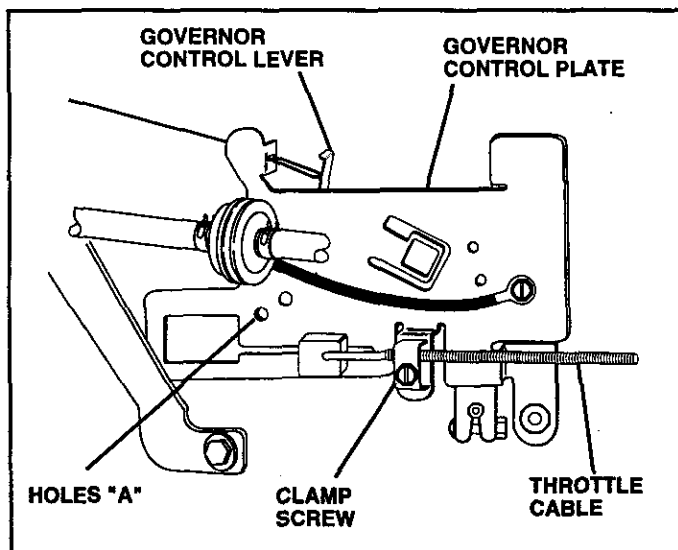


FIG. 41

### TO ADJUST CARBURETOR (See Fig. 42)

**NOTE:** The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counter-

clockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

**IMPORTANT:** DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

#### PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).

#### FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve full travel clockwise then counterclockwise until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

#### ACCELERATION TEST -

- Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture valve out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust - damage may result.

**IMPORTANT:** NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

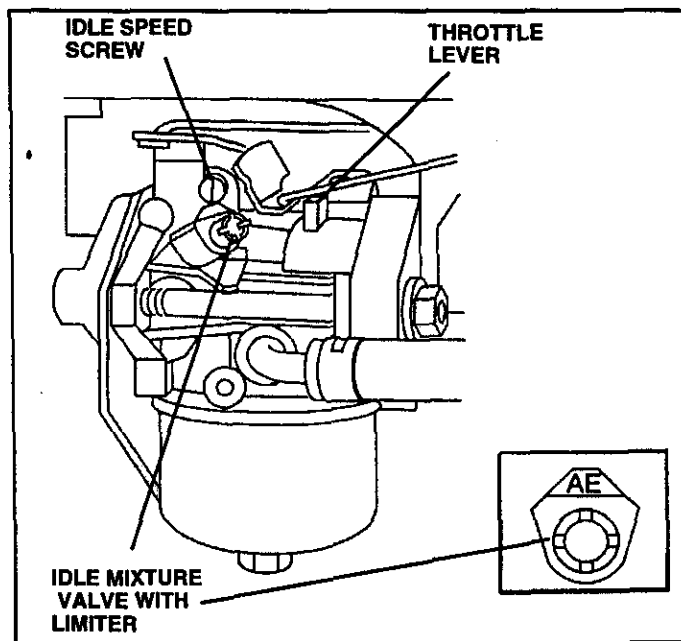


FIG. 42

# STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



**CAUTION:** Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

## TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

## BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

## ENGINE

### FUEL SYSTEM

**IMPORTANT:** IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

**NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

### ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

### CYLINDER(S)

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

## OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

**IMPORTANT:** NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST ARE STILL WARM.

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
<b>Will not start</b>	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Engine not "CHOKED" properly.</li> <li>3. Engine flooded.</li> <li>4. Bad spark plug.</li> <li>5. Dirty air filter.</li> <li>6. Dirty fuel filter.</li> <li>7. Water in fuel.</li>   <li>8. Loose or damaged wiring.</li> <li>9. Carburetor out of adjustment.</li>   <li>10. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. See "TO START ENGINE" in Operation section.</li> <li>3. Wait several minutes before attempting to start.</li> <li>4. Replace spark plug.</li> <li>5. Clean/replace air filter.</li> <li>6. Replace fuel filter.</li> <li>7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>8. Check all wiring.</li> <li>9. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>10. Contact an authorized service center/department.</li> </ol>
<b>Hard to start</b>	<ol style="list-style-type: none"> <li>1. Dirty air filter.</li> <li>2. Bad spark plug.</li> <li>3. Weak or dead battery.</li> <li>4. Dirty fuel filter.</li> <li>5. Stale or dirty fuel.</li> <li>6. Loose or damaged wiring.</li> <li>7. Carburetor out of adjustment.</li>   <li>8. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Replace spark plug.</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuel filter.</li> <li>5. Drain fuel tank and refill with fresh gasoline.</li> <li>6. Check all wiring.</li> <li>7. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>8. Contact an authorized service center/department.</li> </ol>
<b>Engine will not turn over</b>	<ol style="list-style-type: none"> <li>1. Clutch/brake pedal not depressed.</li> <li>2. Attachment clutch is engaged.</li> <li>3. Weak or dead battery.</li> <li>4. Blown fuse.</li> <li>5. Corroded battery terminals.</li> <li>6. Loose or damaged wiring.</li> <li>7. Faulty ignition switch.</li> <li>8. Faulty solenoid or starter.</li> <li>9. Faulty operator presence switch(es).</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress clutch/brake pedal.</li> <li>2. Disengage attachment clutch.</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuse.</li> <li>5. Clean battery terminals.</li> <li>6. Check all wiring.</li> <li>7. Check/replace ignition switch.</li> <li>8. Check/replace solenoid or starter.</li> <li>9. Contact an authorized service center/department.</li> </ol>
<b>Engine clicks but will not start</b>	<ol style="list-style-type: none"> <li>1. Weak or dead battery.</li> <li>2. Corroded battery terminals.</li> <li>3. Loose or damaged wiring.</li> <li>4. Faulty solenoid or starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recharge or replace battery.</li> <li>2. Clean battery terminals.</li> <li>3. Check all wiring.</li> <li>4. Check/replace solenoid or starter.</li> </ol>
<b>Loss of power</b>	<ol style="list-style-type: none"> <li>1. Cutting too much grass/too fast.</li> <li>2. Throttle in "CHOKE" position.</li> <li>3. Build-up of grass, leaves and trash under mower.</li> <li>4. Dirty air filter.</li> <li>5. Low oil level/dirty oil.</li> <li>6. Faulty spark plug.</li> <li>7. Dirty fuel filter.</li> <li>8. Stale or dirty fuel.</li> <li>9. Water in fuel.</li>   <li>10. Spark plug wire loose.</li> <li>11. Dirty engine air screen/fins.</li> <li>12. Dirty/clogged muffler.</li> <li>13. Loose or damaged wiring.</li> <li>14. Carburetor out of adjustment.</li>   <li>15. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set in "Higher Cut" position/reduce speed.</li> <li>2. Adjust throttle control.</li> <li>3. Clean underside of mower housing.</li> <li>4. Clean/replace air filter.</li> <li>5. Check oil level/change oil.</li> <li>6. Clean and regap or change spark plug.</li> <li>7. Replace fuel filter.</li> <li>8. Drain fuel tank and refill with fresh gasoline.</li> <li>9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>10. Connect and tighten spark plug wire.</li> <li>11. Clean engine air screen/fins.</li> <li>12. Clean/replace muffler.</li> <li>13. Check all wiring.</li> <li>14. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>15. Contact an authorized service center/department.</li> </ol>
<b>Excessive vibration</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Bent blade mandrel.</li> <li>3. Loose/damaged part(s).</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Replace blade mandrel.</li> <li>3. Tighten loose part(s). Replace damaged parts.</li> </ol>

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	<ol style="list-style-type: none"> <li>1. Faulty operator-safety presence control system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.</li> </ol>
Poor cut - uneven	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Mower deck not level.</li> <li>3. Buildup of grass, leaves, and trash under mower.</li> <li>4. Bent blade mandrel.</li> <li>5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Level mower deck.</li> <li>3. Clean underside of mower housing.</li> <li>4. Replace blade mandrel.</li> <li>5. Clean around mandrels to open vent holes.</li> </ol>
Mower blades will not rotate	<ol style="list-style-type: none"> <li>1. Obstruction in clutch mechanism.</li> <li>2. Worn/damaged mower drive belt.</li> <li>3. Frozen idler pulley.</li> <li>4. Frozen blade mandrel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove obstruction.</li> <li>2. Replace mower drive belt.</li> <li>3. Replace idler pulley.</li> <li>4. Replace blade mandrel.</li> </ol>
Poor grass discharge	<ol style="list-style-type: none"> <li>1. Engine speed too slow.</li> <li>2. Travel speed too fast.</li> <li>3. Wet grass.</li> <li>4. Mower deck not level.</li> <li>5. Low/uneven tire air pressure.</li> <li>6. Worn, bent or loose blade.</li> <li>7. Buildup of grass, leaves and trash under mower.</li> <li>8. Mower drive belt worn.</li> <li>9. Blades improperly installed.</li> <li>10. Improper blades used.</li> <li>11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place throttle control in "FAST" position.</li> <li>2. Shift to slower speed.</li> <li>3. Allow grass to dry before mowing.</li> <li>4. Level mower deck.</li> <li>5. Check tires for proper air pressure.</li> <li>6. Replace/sharpen blade. Tighten blade bolt.</li> <li>7. Clean underside of mower housing.</li> <li>8. Replace mower drive belt.</li> <li>9. Reinstall blades sharp edge down.</li> <li>10. Replace with blades listed in this manual.</li> <li>11. Clean around mandrels to open vent holes.</li> </ol>
Headlight(s) not working (if so equipped)	<ol style="list-style-type: none"> <li>1. Switch is "OFF".</li> <li>2. Bulb(s) burned out.</li> <li>3. Faulty light switch.</li> <li>4. Loose or damaged wiring.</li> <li>5. Blown fuse.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn switch "ON".</li> <li>2. Replace bulb(s).</li> <li>3. Check/replace light switch.</li> <li>4. Check wiring and connections.</li> <li>5. Replace fuse.</li> </ol>
Battery will not charge	<ol style="list-style-type: none"> <li>1. Bad battery cell(s).</li> <li>2. Poor cable connections.</li> <li>3. Faulty regulator (if so equipped).</li> <li>4. Faulty alternator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Check/clean all connections.</li> <li>3. Replace regulator.</li> <li>4. Replace alternator.</li> </ol>
Loss of drive	<ol style="list-style-type: none"> <li>1. Freewheel control in "disengaged" position.</li> <li>2. Motion drive belt worn, damaged, or broken.</li> <li>3. Air trapped in transmission during shipment or servicing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place freewheel control in "engaged" position.</li> <li>2. Replace motion drive belt.</li> <li>3. Purge transmission.</li> </ol>
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> <li>1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>
Mower will not operate	<ol style="list-style-type: none"> <li>1. Bagger or optional rear discharge deflector is not installed correctly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check bagger or optional rear discharge deflector for proper installation.</li> </ol>

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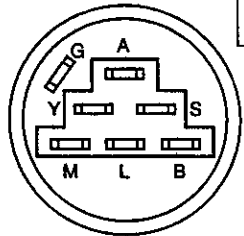
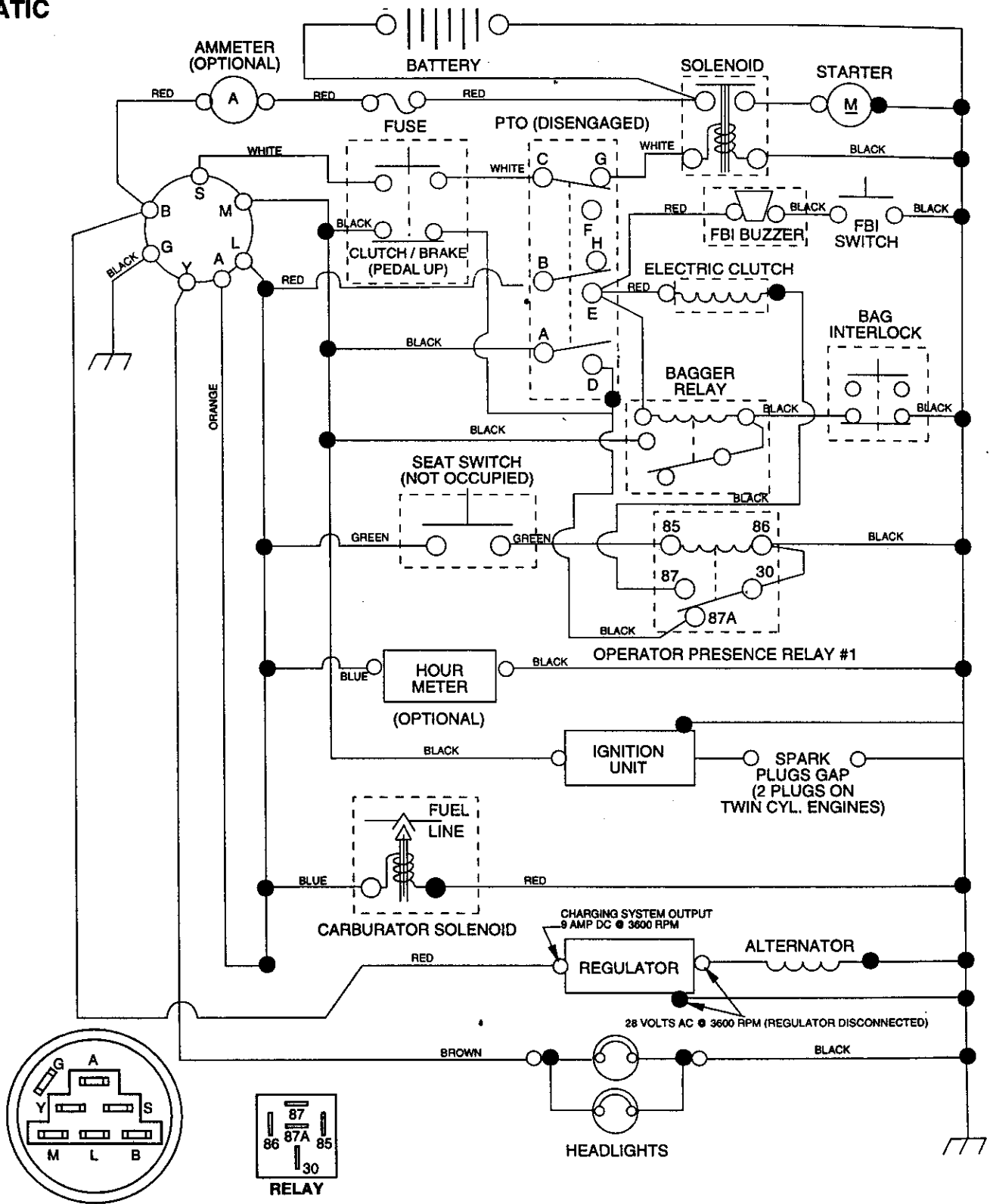
# SERVICE NOTES

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# TRACTOR - - MODEL NUMBER 944.609150

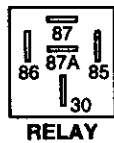
## SCHEMATIC



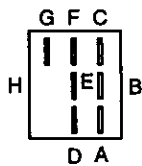
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUNLIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

**WIRING INSULATED CLIPS**  
 NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



RELAY



PTO SWITCH

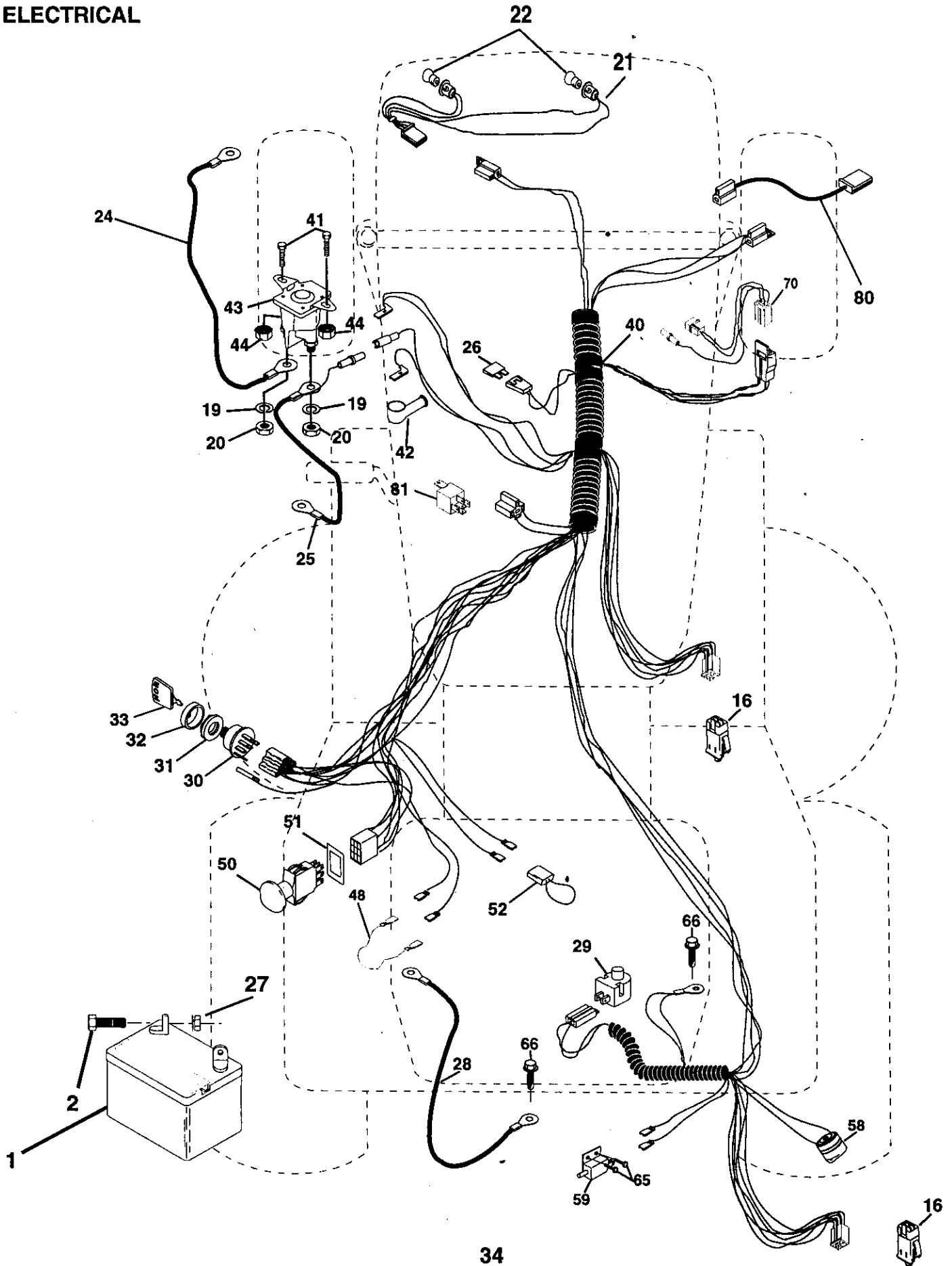
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

● NON-REMOVABLE CONNECTIONS  
 ○ REMOVABLE CONNECTIONS

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

### ELECTRICAL



# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

### ELECTRICAL

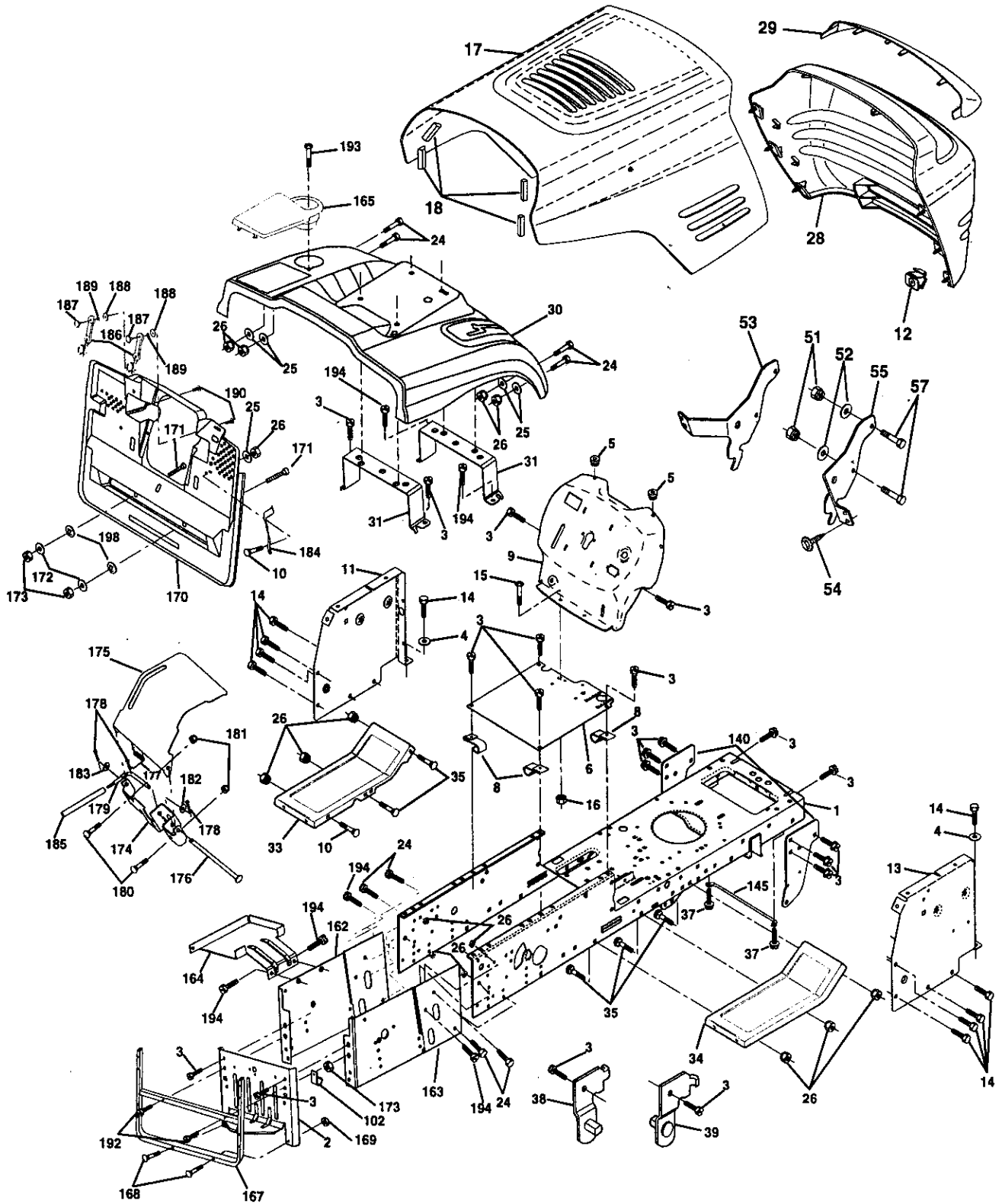
KEY NO.	PART NO.	DESCRIPTION
1	144925	Battery 12 Volt 25 Amp
2	74760412	Bolt Hex Hd 1/4-20unc X 3/4
16	153664	Switch Interlock
19	STD551125	Washer Lock 1/4
20	73350400	Nut Jam Hex 1/4-20 Unc
21	166182	Harness Asm Light W/4152J
22	4152J	Bulb Light #1156
24	4799J	Cable Starter 6 Ga 11" Red
25	165987	Cable Battery CRD 56" Red
26	166180	Fuse 15 Amp
27	73510400	Nut Keps Hex 1/4-20 Unc
28	127725	Cable Ground
29	160784	Switch Plunger OP Olive
30	140301	Switch Ign
31	124211X	Nut Ignition
32	141226	Cover Switch Ignition
33	109310X	Key Ign
40	166158	Harness Ign
41	71110408	Bolt Blk Fin Hex 1/4-20 Unc x 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
44	73640400	Nut Keps Blk Hex 1/4-20 Unc
48	140844	Adapter Ammeter Rectangular
50	154963	Switch PTO 3PDT Red Delta
51	140405	Ring Retainer PTO
52	141940	Protection Wire Loop
58	165943	Buzzer CRD
59	166299	Switch FBI CRD
65	17211008	Screw Slfts #10-16 x 1/2
66	17490608	Screw Thdrol 3/8-16 x 1/2
70	166668	Harness Eng
80	146685	Harness Clutch Evx
81	109748X	Relay Asm.

**NOTE:** All component dimensions give in U.S. inches  
1 inch = 25.4 mm.

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

### CHASSIS AND ENCLOSURES



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### CHASSIS AND ENCLOSURES

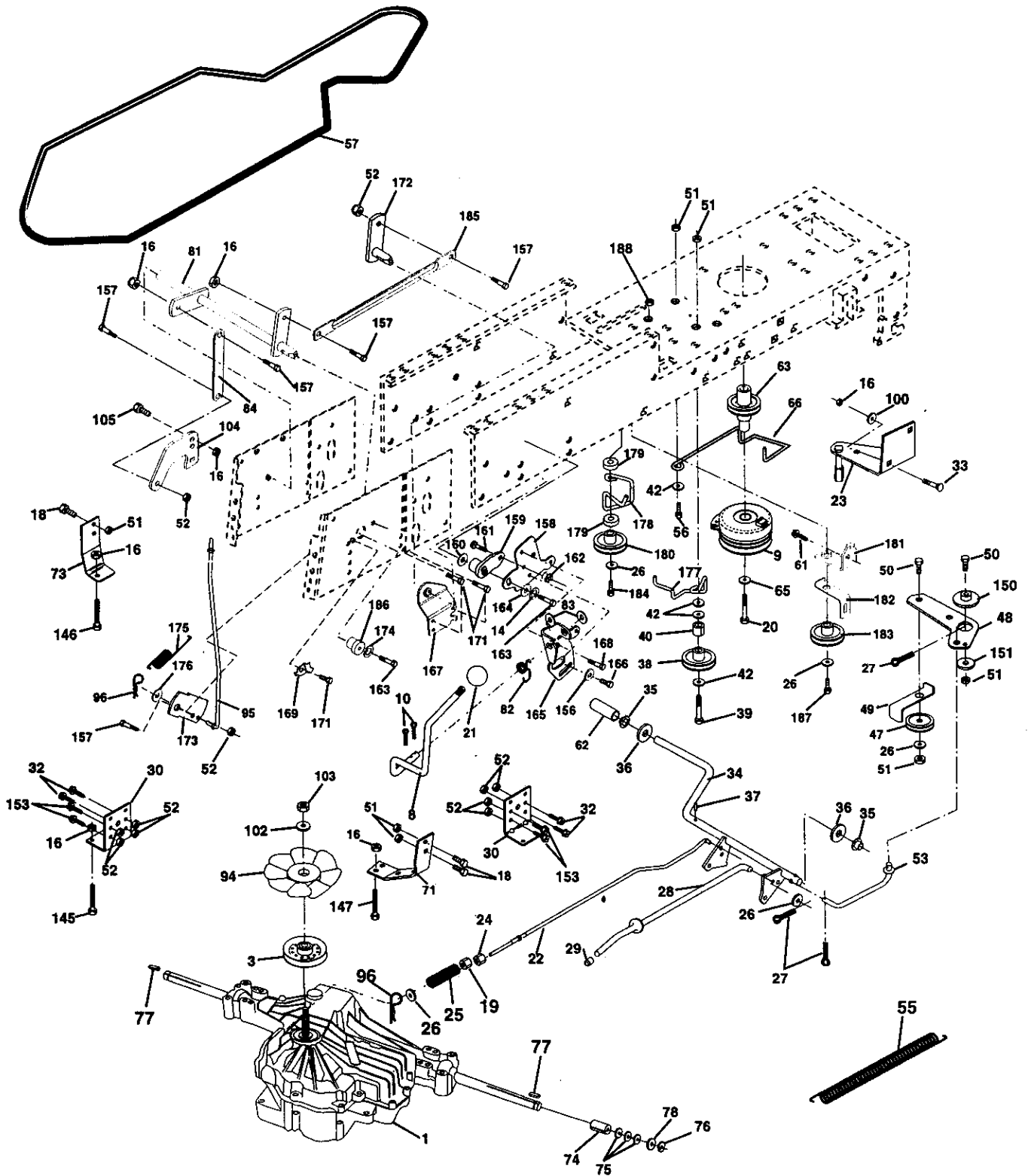
KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	165480	Chassis Stamping	57	74780412	Bolt Fin Hex 1/4-20 Unc x .75
2	165606	Drawbar, CRD	102	2751R	Clip Line Fuel 13/32 Mtg Hole
3	17490612	Screw Thdrol 3/8-16x3/4 Ty-tt	140	158418	Bracket, Front Suspension
4	19131216	Washer 13/32 x 3/4 x 16 Ga	145	156524	Rod Pivot Chassis/Hood
5	155272	Bumper Hood/Dash	162	165672	Bracket Exten Chassis Lh
6	155923	Saddle Flat Lt Fender Shift	163.	165673	Bracket Exten Chassis Rh
8	126471X	Clip Insulator 13/32 Mtg Hole	164	165605	Support Battery CRD
9	147631X010	Dash Slkscr Plm E N/A N/HM E/Sy	165	165742X428	Cover Battery CRD Lt Black
10	STD533710	Bolt Carriage 3/8-16 x 1	167	165779	Support Asm Backplate Wldmnt
11	155927	Panel Dash Lh	168	72050412	Bolt Rdhd Sht NK 1/4-20 x 1-1/2
12	145660	Clip Tinnerman Grill P/L	169	123976X	Nut lock 1/4 Lge Flg Gr 5 Zinc
13	155936	Panel Dash Rh	170	165607	Cover Backplate Plastic Black
14	17490608	Screw Thdrol 3/8-16 x 1/2	171	74520640	Bolt Hex 3/8-16 x 2-1/2
15	74180512	Screw Mach Trhd 5/16-18 Unc x 3/4	172	19132016	Washer 13/32 x 1-1/4 x 16 Ga
16	73510500	Nut Keps 5/16-18 Unc	173	73510600	Nut Keps Hex 3/8-16 Unc
17	144983X558	Hood Pnt	174	165939	Bracket Switch FBI CRD
18	126938X	Bumper Hood	175	166212	Guard Door Rear CRD
24	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr 5	176	128600	Pin Hinge Pivot
25	19131312	Washer 13/32 X 13/16 X 12 Ga	177	132796	Spring Bagger Top Lh Black
26	STD541437	Nut Lock Hex W/Ins 3/8-16 Unc	178	76020312	Pin Cotter 3/32 x 3/4 Cad
28	145198X558	Grille	179	165942	Rod Pivot FBI CRD
29	155217X599	Lens	180	74760516	Bolt Hex Hd 5/16-18 Unc x 1
30	165713X558	Fender Auto CRD	181	73680500	Nut Crownlock 5/16-18
31	165156	Bracket Support Fender	182	138200	Washer .385 x .625 x 11 Ga
33	145244X558	Footrest Pnt Lh	183	19131316	Washer 13/32 x 13/16 x 16 Ga
34	145243X558	Footrest Pnt Rh	184	166139	Bracket Actuator Bagger CRD
35	72110606	Bolt Rdhd Sht Sqnk 3/8-16 x 3/4	185	165940	Tube Lever Swch FBI CRD 2-1/16
37	17490508	Screw Thdrol 6/16-18 x 1/2 TYT	186	160793	Latch Asm Mulch/Bagger
38	139886	Bracket, Asm. Pivot, L.H., Mower Rear	187	2029J	Nut Weld .327/.304 #10-24
39	139887	Bracket, Asm. Pivot, R.H., Mower Rear	188	19061216	Washer #10
51	73800400	Nut Lock w/insert 1/4-20	189	10071000	Washer Lock #10
52	19091416	Washer 9/32 x 7/8 x 16 Ga	190	71161010	Screw Truss Hd Phil 10-24 x 5/8
53	145201	Bracket Grille Pickoff LH	192	17490624	Screw Thdrol 3/8-16 x 1-1/2
54	161464	Screw Hex Wshd 8-18 x 7/8	193	17720410	Screw Hex Thd Cut 1/4-20 x 5/8
55	145202	Bracket Grille Pickoff RH	194	17060612	Screw 3/8-16 x .75
			198	168937	Nut Push
			--	5479J	Plug Button

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

### DRIVE



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### DRIVE

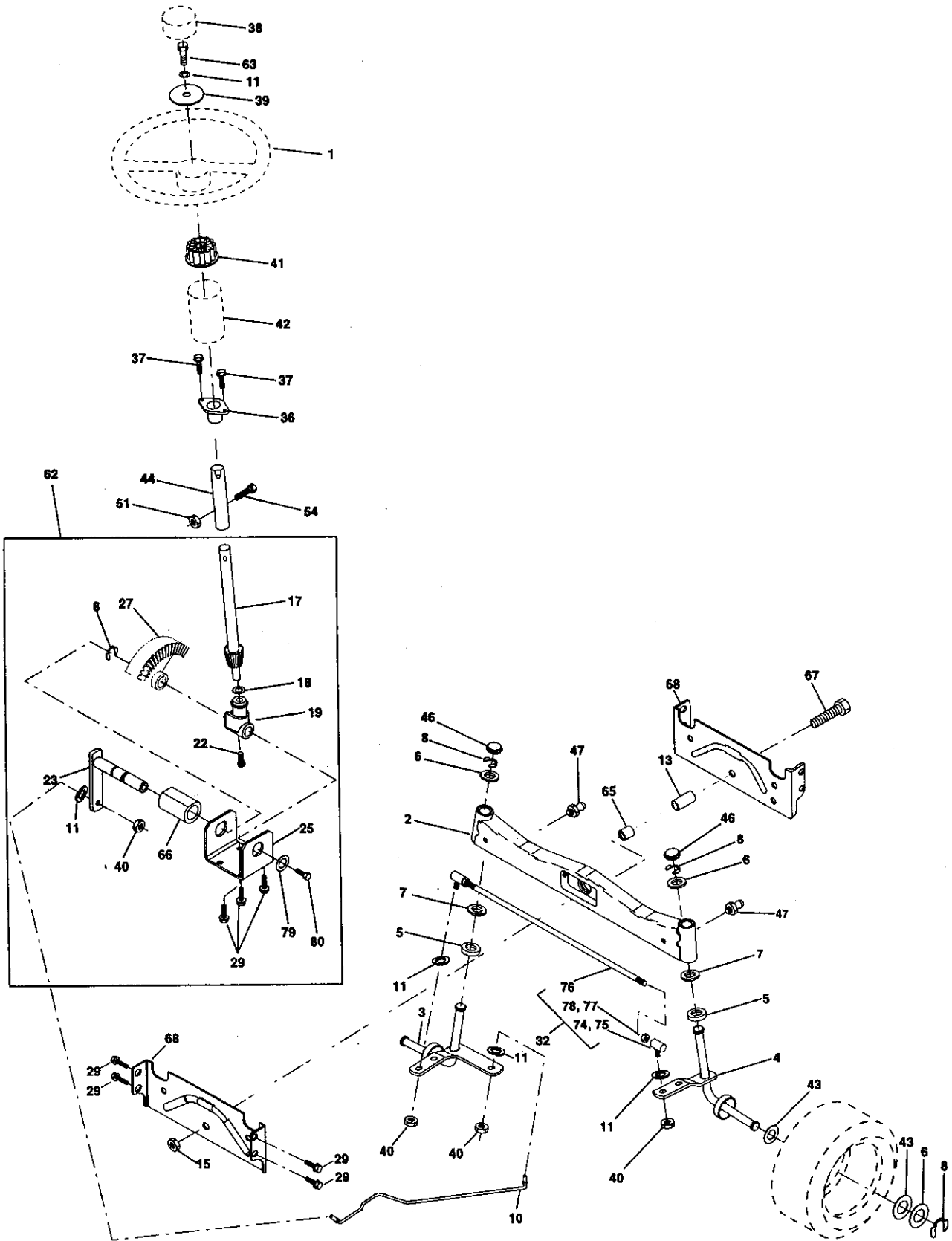
KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	-----	Transaxle (See Breakdown)	82	123782X	Spring Torsion
3	143995	Hydro Gear Model 331-0650	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
8	165619	Pulley, Transaxle	84	165629	Link Transaxle
9	167162	Rod Shift Fender Adjust	94	140462	Fan, Hydro 7"
10	STD561210	Clutch Elect Evx 80lb	95	165935	Rod Bypass CRD
14	10040400	Pin Cotter 1/8 x 1 CAD	96	STD624003	Retainer Spring 1" Zinc/Cad
16	STD541431	Washer Lock Hvy Helical	100	19111216	Washer 11/32 x 3/4 x 16 Ga.
18	STD523710	Nut Lock Hex W/Ins 5/16-18 Unc P	102	141322	Washer Belleville .501D x 1.50D
19	STD541437	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5	103	STD541350	Nut, Hex, Jam Toplock 1/2-20 UNF
20	150280	Nut Lock Hex W/Wsh 3/8-16 Unc	104	140156	Arm, Control Hydro
21	130564	Bolt, Hex 7/16-20 x 4-1/4	105	71070516	Screw Cap Hex 5/16 x 18 x 1
22	165688	Knob, Deluxe 1/2-13	145	74490540	Bolt Hex Flghd 5/16-18 Gr.5
23	154978	Rod, Brake Hydro	146	74490536	Bolt Hex Flghd 5/16-18 x 2-1/4
24	STD541273	Bracket Asm Clutch Mtg Evx	147	74490524	Bolt Hex Flghd 5/16-18 x 1-1/2
25	106888X	Nut Hex Jam 3/8-16	150	165850	Bushing Belicrank
26	STD551037	Spring, Brake Rod	151	19133210	Washer 13/32 x 2 x 10 Ga.
27	STD561210	Washer 13/32 x 13/16 x 16 Ga.	153	74760516	Bolt Hex Hd 5/16-18 UNC x 1
28	145204	Pin Cotter 1/8 x 3/4 CAD.	156	166002	Washer Srted 5/16ID x 1.125
29	124236X	Rod, Parking Brake	157	153236	Bolt Shoulder 5/16-18 Unc - 2A
30	130807	Cap, Parking Brake	158	165589	Bracket Shift Mount
32	STD523107	Bracket, Transaxle	159	165494	Hub Tapered Flange Shift Lt
33	72140506	Bolt Hex Hd 5/16-18 Unc x 3/4	160	19292016	Washer 29/32 x 1-1/4 x 16 Ga
34	165496	Bolt Rdhd Sqnk 5/16-18 unc x 3/4	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
35	120183X	Shaft, Foot Pedal	162	73680400	Nut Crownlock 1/4-20 Unc
36	STD551062	Bearing, Nylon	163	74780416	Bolt Hex Fin 1/4-20 Unc x 1 Gr 5
37	STD571810	Washer 21/32 x 1 x 16 Ga	164	19091010	Washer 5/8 x .281 x 10 Ga
38	165936	Pin, Roll	165	165623	Bracket Pivot Lever
39	STD523727	Pulley, Flat	166	166880	Screw 5/16-18 x 5/8
40	4470J	Bolt Fin Hex 3/8-16 x 2 3/4	167	165588	Bracket Support Shift CRD
42	19131312	Spacer, Split	168	165492	Bolt Shoulder 5/16-18 x .561
47	127783	Washer 13/32 x 13/16 x 12 Gauge	169	165580	Plate Fastening Cross Shf. Sttl/CRD
48	154407	Pulley, Idler, V-Groove	171	17490608	Screw Thdrol 3/8-16 x 1/2
49	123205X	Bellcrank Assembly	172	165587	Shaft Asm Shifter Frt CRD
50	STD523715	Retainer, Belt	173	165934	Bracket Hydro Bypass CRD
51	STD541437	Bolt Hex Hd 3/8-16 x 1 1/2	174	10090400	Washer Lock 1/4
52	STD541431	Nut Crownlock 3/8-16 UNC	175	165931	Spring Bypass CRD
53	105710X	Nut Crownlock 5/16-18 UNC	176	19070816	Washer 7/32 x 1/2 x 16 Ga
55	105709X	Link, Clutch	177	165932	Keeper Flat Idler
56	STD523712	Spring, Return, Clutch	178	165933	Keeper Belt Idler
57	165632	Bolt Fin Hex 3/8-16 UNC x 1-1/4	179	120958X	Washer Sintered
61	17490612	V-Belt, Ground Drive	180	165630	Pulley Flat Idler
62	8883R	Screw Thdrol. 3/8-16 x 3/4 Ty. TT	181	165797	Bracket Idler Ground Drive CRD
63	145868	Cover, Pedal	182	165634	Keeper Belt 2.5"OD V-Idler CRD
65	STD551143	Pulley, Engine	183	165626	Pulley V-Idler 2.50"OD CRD
66	154778	Washer	184	17490644	Scr Hexwsh Thdrol 3/8-16 x 2-3/4
71	140158	Keeper Belt Engine	185	165541	Link shift CRD Hydro 0650
73	156347	Strap Torque Lh Hydro	186	165614	Hub Tapered Round CRD
74	121199X	Strap Torque Rh Hydro	187	17490620	Screw Thdrol 3/8-16 x 1-1/4
75	121749X	Spacer, Split	188	110436X	Bushing Snap Split Blk
76	STD581075	Washer 25/32 x 1-1/4 x 16 Gauge			
77	123583X	E-Ring			
78	121748X	Key, Square			
81	165585	Washer 25/32 x 1-5/8 x 16 Gauge			
		Shaft Asm. Cross			

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

## STEERING ASSEMBLY





# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### STEERING ASSEMBLY

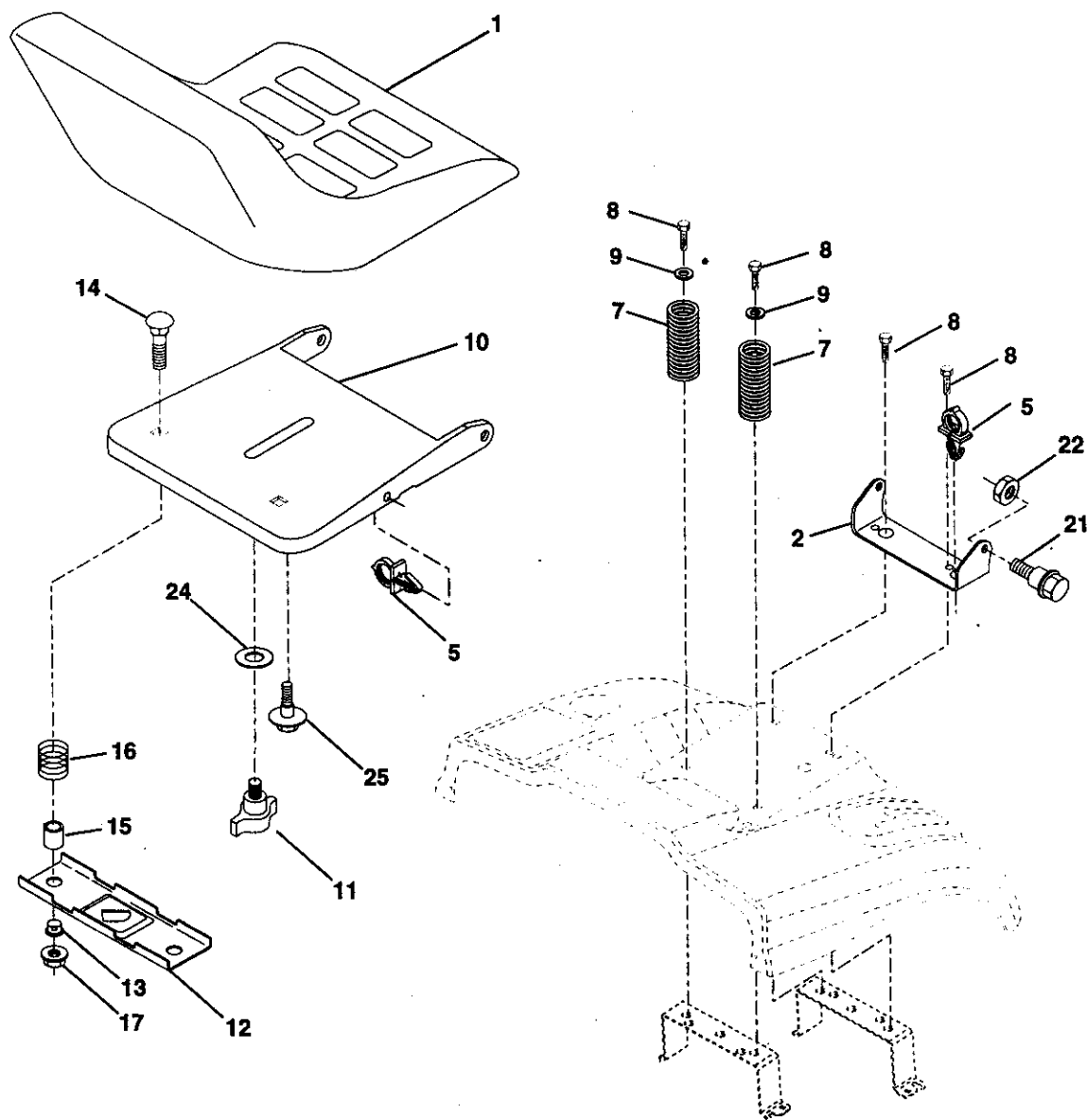
KEY PART NO.	NO.	DESCRIPTION
1	139768	Wheel Steering
2	137094	Axle Front Casting Machined
3	157479	Spindle Asm LH
4	157478	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 X 1-5/8 X 16 Ga
7	19272016	Washer 27/32 X 1-1/4 X 16 Ga
8	12000029	Ring Klip #t5304-75
10	154432	Link Drag Extended Cast
11	STD551137	Washer Lock Hvy Hlcl Spr 3/8
13	167118	Bearing Axle STLT/GT
15	73901000	Nut Lock Flange 5/8-11 Unc
17	156546	Shaft Asm Strg
18	57079	Washer Thrust 515x 750x 033
19	160395	Support Shaft
22	165857	Screw Hex Wshhd Torx
23	165851	Shaft Asm Pittman
25	154406	Bracket Steering
27	136874	Gear Sector
29	17490612	Screw Thdrol 3/8-16x3/4 Ty-tt
32	137347	Rod Asm Tie Ball J Adj
36	155099	Bushing Strg
37	152927	Screw
38	139769	Insert Cap Strg Wh
39	19133808	Washer 13/32 x 2-3/8 x 8 Ga
40	STD541537	Lock nut
41	100711L	Adaptor Wheel Strg
42	145054	Boot Steering
43	121749X	Washer 25/32 X 1 1/4 X 16 Ga
44	153720	Extention Steering Non-Adjust
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
51	73800500	Nut Lock Hx W/Ins 5/16-18 Unc
54	74780520	Bolt Fin Hex 5/16-18 Unc x 1 1/4
62	167902	Kit, Steering Assembly Svc
63	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr 5
65	154780	Spacer Axle
66	154404	Bearing Arm Pittman
67	74781044	Bolt, Fin Hex 5/8-11 UNC x 2-3/4
68	154429	Axle, Brace
74	109850X	Joint Asm Ball Rh
75	109851X	Joint Asm Ball Lh
76	137156	Rod Tie Ball J Adj
77	73700600	Nut Hex Jam 3/8-24 Unf Lh
78	73360600	Nut Hex Jam 3/8-24 Unf
79	19132012	Washer 13/32 x 1 1/4 x 12 Ga
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket Pivot Seat 8 720
5	145006	Clip Push-In
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17490616	Screw Thdrol 3/8-16 X 1 Ty-tt
9	19131614	Washer 13/32 X 1 X 14 Ga.
10	155925	Pan Seat
11	166369	Knob Seat Adj. Wingnut
12	121246X	Bracket Mounting Switch
13	121248X	Bushing Snap Blk Nyl 50 Id

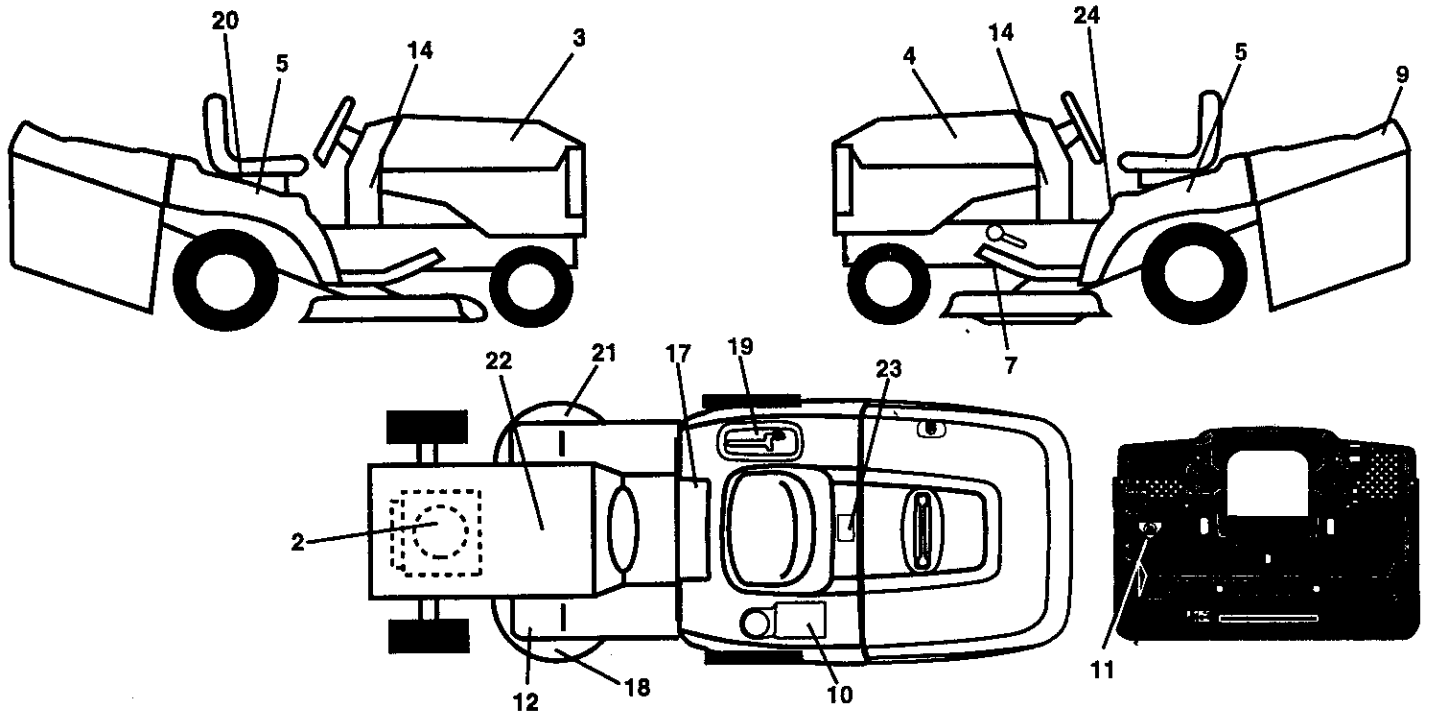
KEY NO.	PART NO.	DESCRIPTION
14	72050412	Bolt Rdhd Sqnk 1/4-20x1-1/2
15	134300	Spacer Split 28x .96 Zinc
16	121250X	Spring Cprsn
17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
21	153236	Bolt Shoulder 5/16-18 Unc
22	STD541431	Nut Hex Lock W/Ins 5/16-18
24	19171912	Washer 17/32 X 1-3/16 X 12 Ga.
25	127018X	Bolt Shoulder 5/16-18 X 62

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

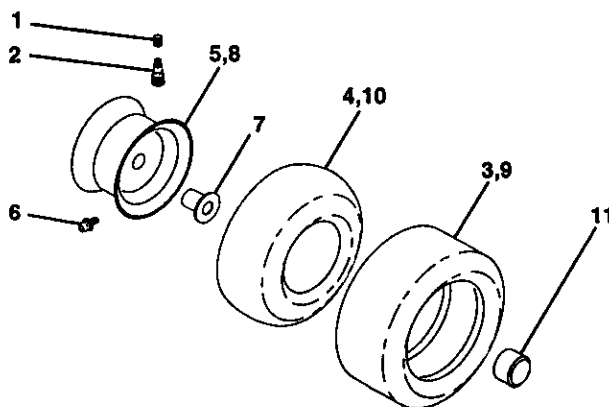
### DECALS



KEY NO.	PART NO.	DESCRIPTION
2	165388	Decal Hp Engine
3	163200	Decal Hood Rh
4	163202	Decal Hood Lh
5	168322	Decal Fender Automatic
7	168864	Decal Belt Schematic 36" Sears
9	163204	Decal Craftsman
10	149517	Decal Bat Dan/Poi E/Fr
11	107339X	Decal Mower Cut Finger
12	101892X	Decal Brake/Clutch E/Fr
14	163250	Decal Dash Pnl B&S 15.5 Turbo
17	156993	Decal Saddle Oper Inst Hydro E/F

KEY NO.	PART NO.	DESCRIPTION
18	137259	Decal Warning Multi Language
19	166962	Decal Console Hydro CRD White
20	166960	Decal Bypass Fender CRD
21	166286	Decal Deck Sch 92 CRD
22	169312	Decal Replacement Parts
23	168952	Decal Bagger/Discharge CRD
24	157140	Decal Fender Danger E/F Lt
—	138311	Decal Lift Handle
—	157199	Pad Footrest
—	168558	Manual Owners (English)
—	168559	Manual Owners (French)

### WHEELS & TIRES



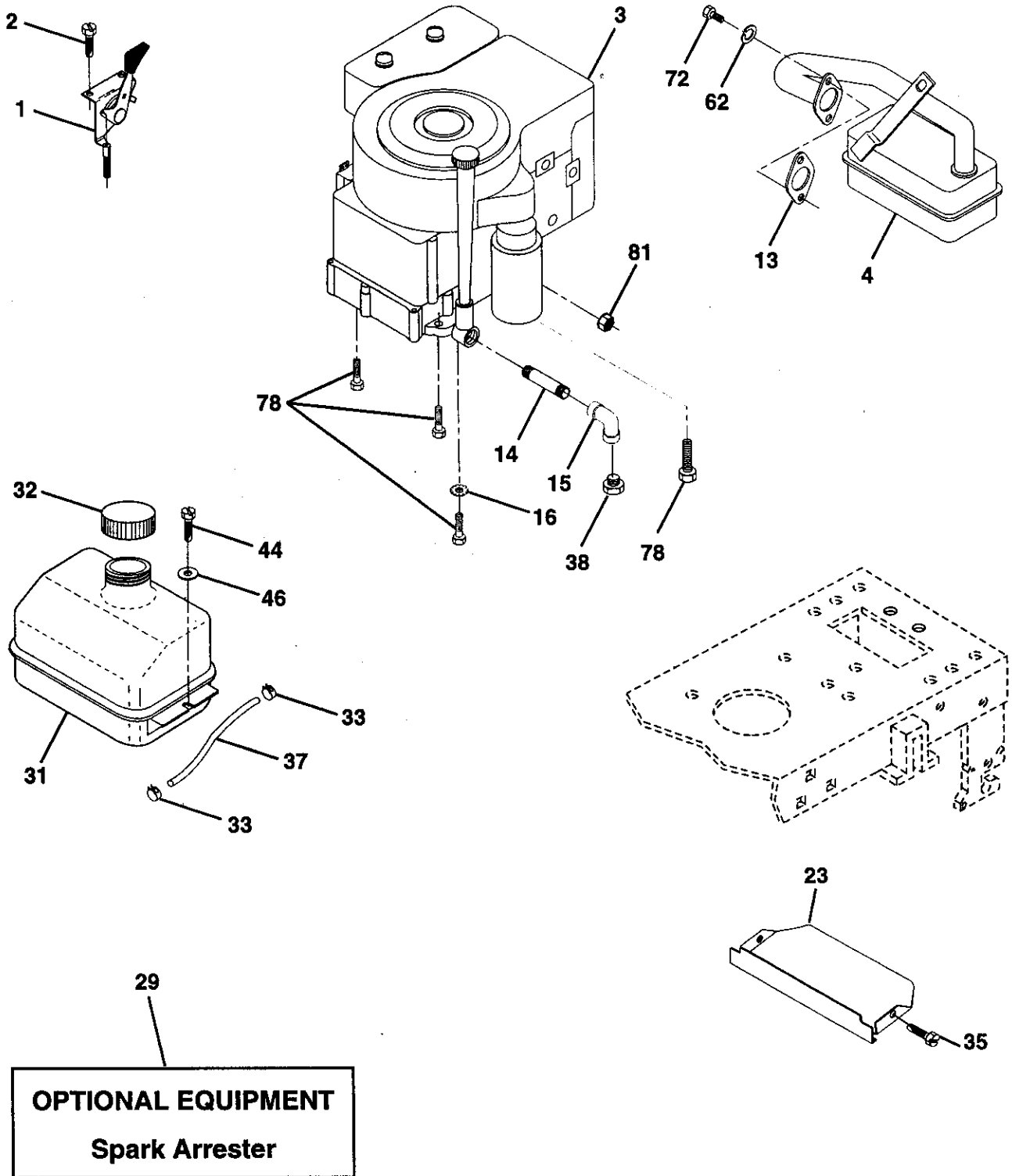
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Value Tire
2	65139	Stem Value
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Inner Front #35060
5	106732X427	Rim Asm 6"front White Service
6	278H	Fitting Grease
7	9040H	Bearing Flange
8	106108X427	Rim Asm 8"rear White Service
9	138468	Tire R Ts 20 x 8-8 Service
10	7152J	Tube Rear 9 5 X 8 Service
11	104757X	Cap Axle Blk 1 50 X 1 00
--	144334	Sealant, Tire (10 oz. tube)

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.609150

## ENGINE



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### ENGINE

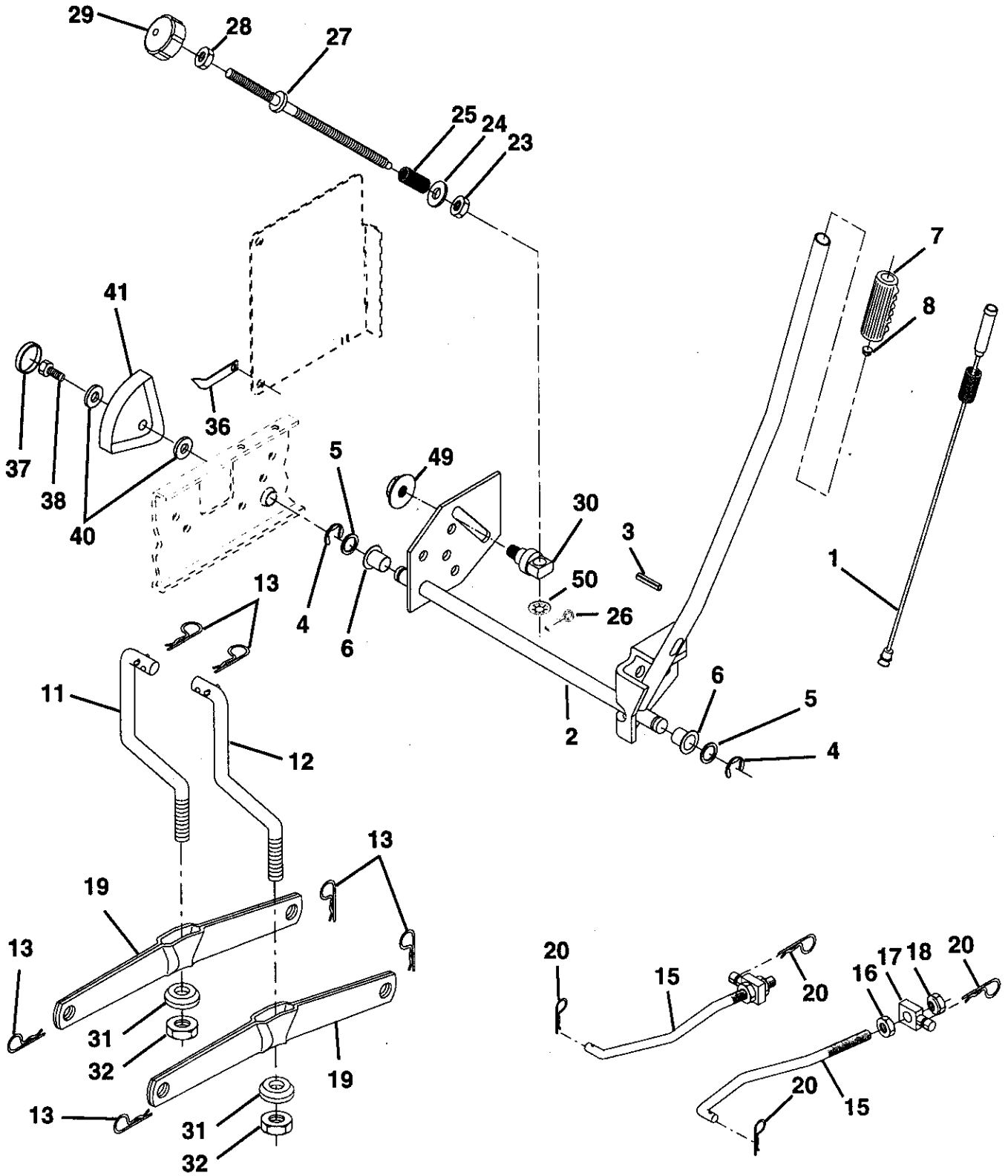
KEY NO.	PART NO.	DESCRIPTION
1	162157	Control, Throttle / Choke
2	17720410	Screw Hex Thd Cut 1/4-20 x 5/8
3	-----	Engine (See Breakdown) B&S 28U707-1175-E1
4	137352	Muffler, Exhaust
13	165291	Muffler Gasket
14	13280324	Nipple, Pipe
15	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	STD551237	Washer, Lock Ext tooth 3/8
23	159880	Shield, Browning/Debris Guard
29	137180	Arrester, Spark
31	109202X	Tank, Fuel
32	158990	Cap Gauge, Fuel
33	123487X	Clamp, Hose Blk
35	17490512	Screw Thdrol 5/16-18 x 3/4
37	137040	Line, Fuel
38	-----	Plug, Oil Drain (Order From Engine Manufacturer)
44	17490412	Screw Hexwsh Thdrol 1/4-20 x 3/4
46	19091416	Washer 9/32 x 7/8 x 16 Ga
62	10040500	Washer Lock Hvy Hlcl Spr 5/16
72	71070512	Screw Hex Hd Cap 5/16-18 x 3/4
78	17490620	Screw Thdrol 3/8-16 x 1-1/4
81	128861	Nut Flange 1/4-20 Starter Nut

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

## MOWER LIFT



# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 944.609150

### MOWER LIFT

KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner W/Plunger
2	159471	Shaft Asm Lift
3	105767X	Pin Groove
4	STD581062	E Ring #5133-62
5	19211621	Washer 29/32 x 1-1/4 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
11	165829	Link Lift Lh CRD
12	165831	Link Lift Rh CRD
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73680800	Nut Crownlock 1/2-13 Unc
19	139868	Arm Suspension Rear
20	163552	Spring Retainer
23	110807X	Nut Special
24	19131016	Washer 13/32 X 5/8 X 16 Ga
25	2876H	Spring
26	STD560907	Pin Cotter 3/32 x 1/2
27	126971X	Rod Adjust Lift
28	73350600	Nut Hex Jam 3/8-16 Unc
29	138057	Knob Infinite 3/8-16 Unc Black
30	150233	Trunnion Infinite Height
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut Lock 3/8-24
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38	17490512	Screw Thdrol 5/16-18 x 3/4
40	19112410	Washer 11/32 x 1-1/2
41	123934X	Scale Ind Height Blk
49	145212	Nut Hex Flange Lock
50	110452X	Nut Push Phos & Oil

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm





# REPAIR PARTS REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

## MOWER DECK

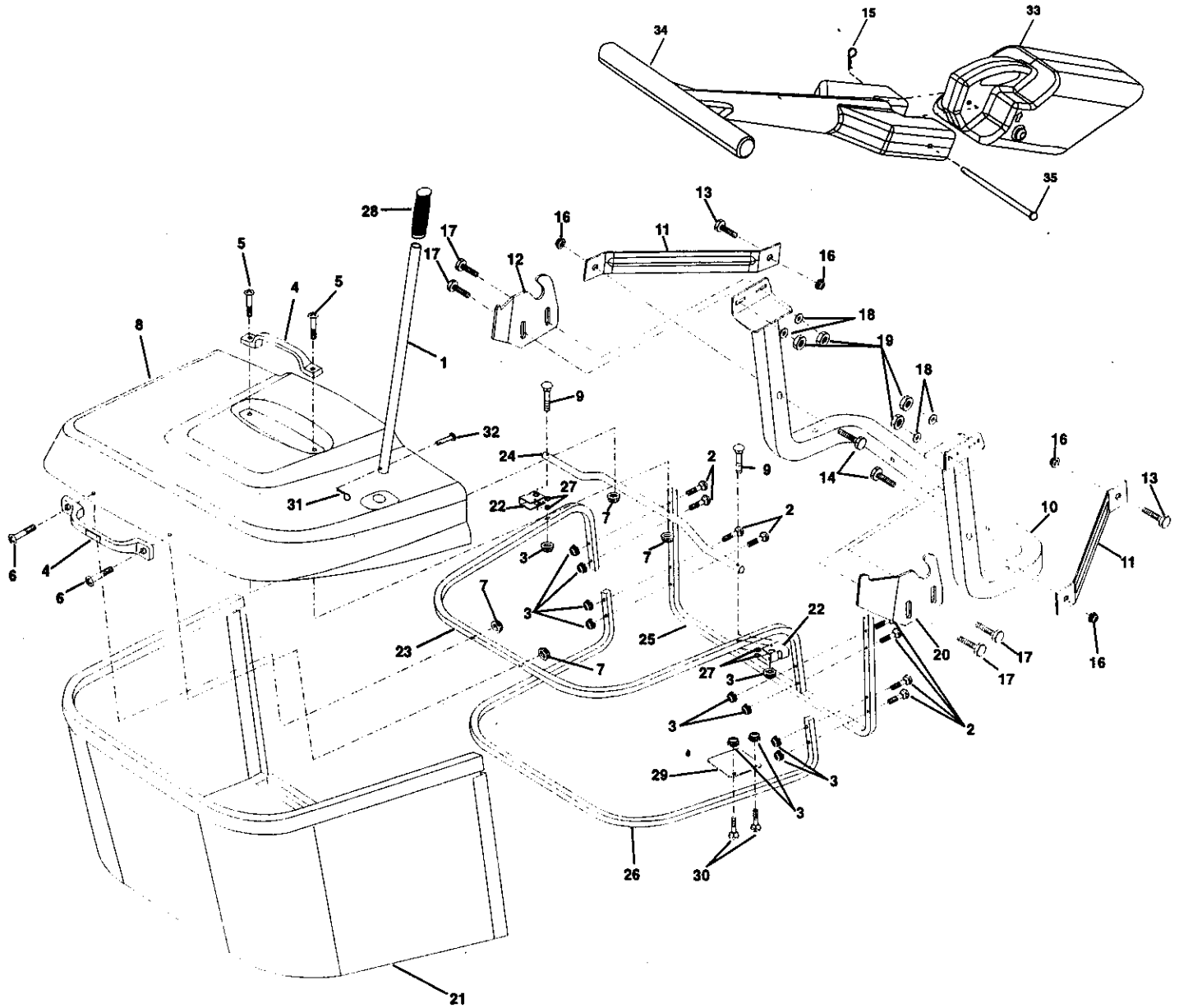
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165552	Housing Asm. Weldment	32	153531	Mandrel Pulleys 36 & 46
2	72140506	Bolt Rdhd Sqnk 5/16-18 Unc x 3/4	33	137266	Nut Fig Top Lock Cntr B 9/16
3	165569	Bracket Asm. S-Bar Chass 92 CRD	34	165239	Bracket Gauge Wheel Lf 92 CRD
4	165558	Bracket Bar Sway Deck 92 CRD	35	165238	Bracket Gauge Wheel Rf 92 CRD
5	4939M	Retainer Spring	36	146763	Pulley Idler V-Groove Dim 4.25
6	165557	Bar Sway 92 CRD	37	19131316	Washer 11/32 x 13/16 x 16 Ga
8	850857	Bolt 3/8-24 x 1.25 Gr8 Patched	40	73680600	Nut Crownlock 3/8-16 Unc
9	10030600	Washer Lock Hvy 3/8 Unplated	44	165724	Cover Mandrel Lh 92 CRD
10	140296	Washer Hard Blade Mower vented	45	165556	Cover Mandrel Rh 92 CRD
11	165560	Blade 3-1 Lh 92 CRD	46	137729	Screw Thd Roll 1/4-20 x 5/8
12	129895	Bearing Ball #6204 (Mandrel)	55	165445	Arm Idler 92 CRD
13	137645	Shaft Asm. W/Lower Bearing	56	122052X	Spacer Retainer PM Mower
14	128774	Housing Mandrel Vented (Machd)	61	165945	Spring Tension Belt
15	110485X	Bearing Ball Mandrel	68	165555	Hex-Belt 92 Mower 105AA
16	165561	Blade 3-1 Rh 92 CRD	69	165482	Shaft Asm W/Lwr Brg Rh Thd CRD
17	72140610	Bolt Carriage 3/8-16 x 1-1/4	84	156085	Keeper Belt Idler
18	72110608	Bolt Rdhd Sqnk 3/8-16 x 1 Gr5	116	137644	Bolt Shoulder
19	132827	Bolt Shoulder 5/16-18 Thd Form	117	133957	Wheel Gage Wide
20	165484	Bolt 3/8-24 x 1.25 Gr8 Pch Lhthd	118	73930600	Nut Centerlock 3/8-16 Unc
21	73680500	Nut Crown Lock 5/16-18	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
22	165243	Bracket Idler Sprt RR 92 CRD	124	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr5
23	165446	Bracket Idler Sprt RF 92 CRD	128	153390	Washer Felt
24	165242	Bracket Suspension LF 92 CRD	130	72110506	Bolt Rdhdsqnk 5/16-18 Unc x 3/4
25	165244	Bracket Suspension RF 92 CRD	131	165661	Chute Bagger CRD 92cm
26	165237	Brace Support Susp Frt CRD	--	130794	Mandrel Asm Service
27	165568	Bracket Asm. Susp RR 92 CRD	--	165579	Mandrel Asm CRD Lh Threads
28	165567	Bracket Asm. Susp LR 92 CRD			SVC
30	157722	Screw Thd Rolling Washer Head	--	165578	Deck Mower Complete
31	129963	Washer Spacer Mower Vented			

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR- -MODEL NO. 944.609150

BAGGER



# REPAIR PARTS

## TRACTOR- -MODEL NO. 944.609150

### BAGGER

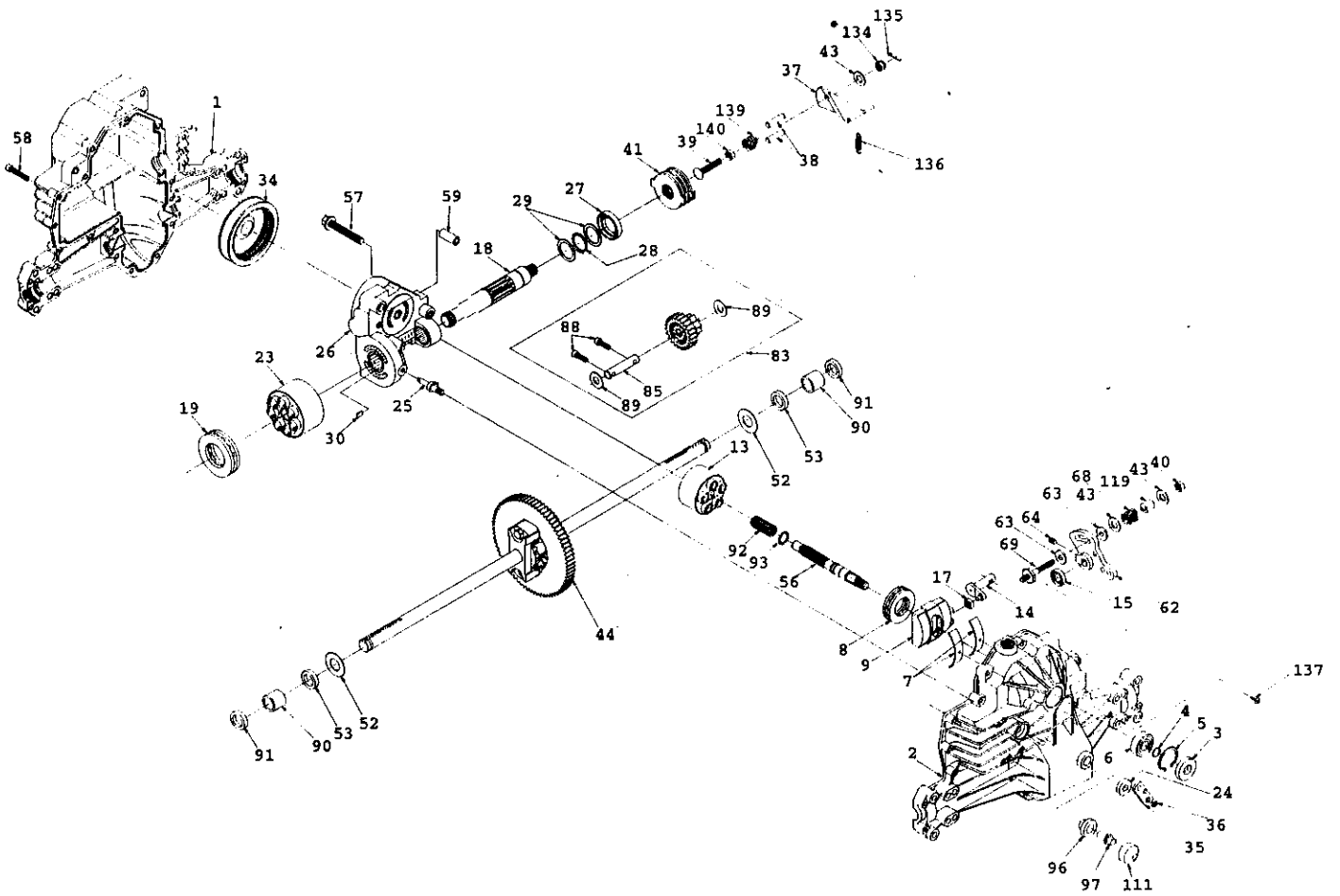
KEY NO.	PART NO.	DESCRIPTION
1	165249	Tube Handle Bagger CRD
2	72140416	Bolt Carriage 1/4-20 x 2.0 Gr.5
3	123976X	Nut Lock 1/4 Lge Flg Gr. 5 Zinc
4	165693	Handle Grab Plastic Black
5	74981024	Screw Pan Head #10-24 x 1.50 Blk
6	74981032	Screw Pan Hd
7	73401000	Nut Wiz Lock Hex Serr/Hd 10-24
8	165715X558	Cover Bagger Plastic CRD
9	72140418	Boit Carriage 1/4-20 x 2.25d x Gr.5
10	165716	Support AsmWldmnt Bagger CRD
11	165719	Bracket Support Upper Bag CRD
12	165735	Bracket Pivot Bagger Lh CRD
13	72110606	Bolt Rdhd Sht Sqnk 3/8-16 x 3/4
14	74520640	Bolt Hex 3/8-16 x 2-1/2 Gr.5
15	4939M	Retainer Spring
16	73900600	Nut Lock Flg 3/8-16 Unc
17	72140506	Bolt Rdhd Sht Sqnk 5/16 -18 Unc x 3/4
18	19112016	Washer 11/32 x 1.25 x 16 Ga.
19	73800500	Nut Lock Hex W/Ins 5/16-18 Unc Pl
20	165736	Bracket Pivot Bagger RH CRD
21	169113	Bag Asm CRD
22	165781	Bracket Side Bagger CRD
23	165782	Tube Upper Bagger CRD
24	165783	Tube Pivot Bagger CRD
25	165784	Tube Front Bagger CRD
26	165785	Tube Lower Bagger CRD
27	165786	Grommet Extruded Cut1/8
28	165787	Grip Handle Black
29	165839	Plate Stop Bagger handle CRD
30	72140410	Bolt Carriage 1/4-20 x 1-1/4 Gr.5
31	4497H	Retainer Spring 1" Zinc/Cad
32	126875X	Rivet Rd Hd Drilled 3/8 Dia
33	165571	Plug Mulcher
34	165570	Handle Mulcher
35	165572	Pin Mulcher

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

HYDRO GEAR TRANSAXLE - MODEL NUMBER 331-0650



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### HYDRO GEAR TRANSAXLE - MODEL NUMBER 331-0650

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 142930	RmHousing, Lower	43 142884	Washer - 7/16x7/8x0.060
2 169049	Assembly, Upper Housing	44 150829	Differential Ass'y
3 142932	Seal - Lip	52 142991	Washer - 3/4x1.5x0.13
4 142928	Ring - Wire Retaining	53 142961	Seal - 0.75x1.25x0.250
5 142933	Ring - Retaining	56 142963	Shaft - Input
6 142934	Bearing - Shaft Ball	57 150797	Bolt - 3/8-24x2.5
7 142935	Bearing - Cradle	58 142964	Bolt - 1/4-20x1.38
8 150771	Bearing - Thrust 30x52x13	59 142965	Pin - 0.5 Odx 0.43 ldx0.750
9 142937	Swashplate - Variable	62 142966	Arm - Control
13 169050	Block - Cylinder Ass'y	63 142967	Puck - Dampener
14 149939	Arm - Trunnion	64 142920	Set Screw
15 142940	Seal - Lip	68 142969	Spring
17 142941	Guide - Slot	69 161134	5/16-24 Stud
18 150772	Shaft - Motor	83 169053	Jack Shaft/Pinion Gear
19 150773	Bearing - Thrust 42x68x16	85 150806	Jack Shaft
23 142944	Block - Cylinder (Motor)	88 142973	Capscrew 6mx20 Lg
24 142945	Seal - Lip 10x25x7	89 142974	Washer 7/16x1x0.5
25 142946	Actuator - Bypass	90 142975	Sleeve Bearing
26 169051	Centersection Ass'y	91 169054	Seal - Lip 0.75x1.00x0.158
27 142948	Seal - Lip 26x42x8	92 142977	Spring - Block
28 142949	Ring - Retaining	93 142978	Washer - Block Thrust
29 142950	Washer - 26x35x1	96 169055	Bushing - Vent
30 150787	Bypass Plate	97 169056	Vent
34 142951	Oil Filter Element	111 169057	Vent
35 142952	Arm - Bypass	119 142980	Spacer
36 142953	Ring - Retaining	134 142885	Castle Nut - 5/16-24
37 169052	Arm - Brake	135 142886	Cotter Pin
38 142955	Pin - Actuating	136 169058	Extension Spring
39 150777	Bolt - 5/16-18x1-3/4	137 161175	Screw - 10-32x1/2
40 150778	Nut - Hex Lock 5/16-24 Unjc	139 150775	Compression Spring
41 142958	Brake Rotor/Stator Kit	140 150776	Nut - Hex 5/16-18

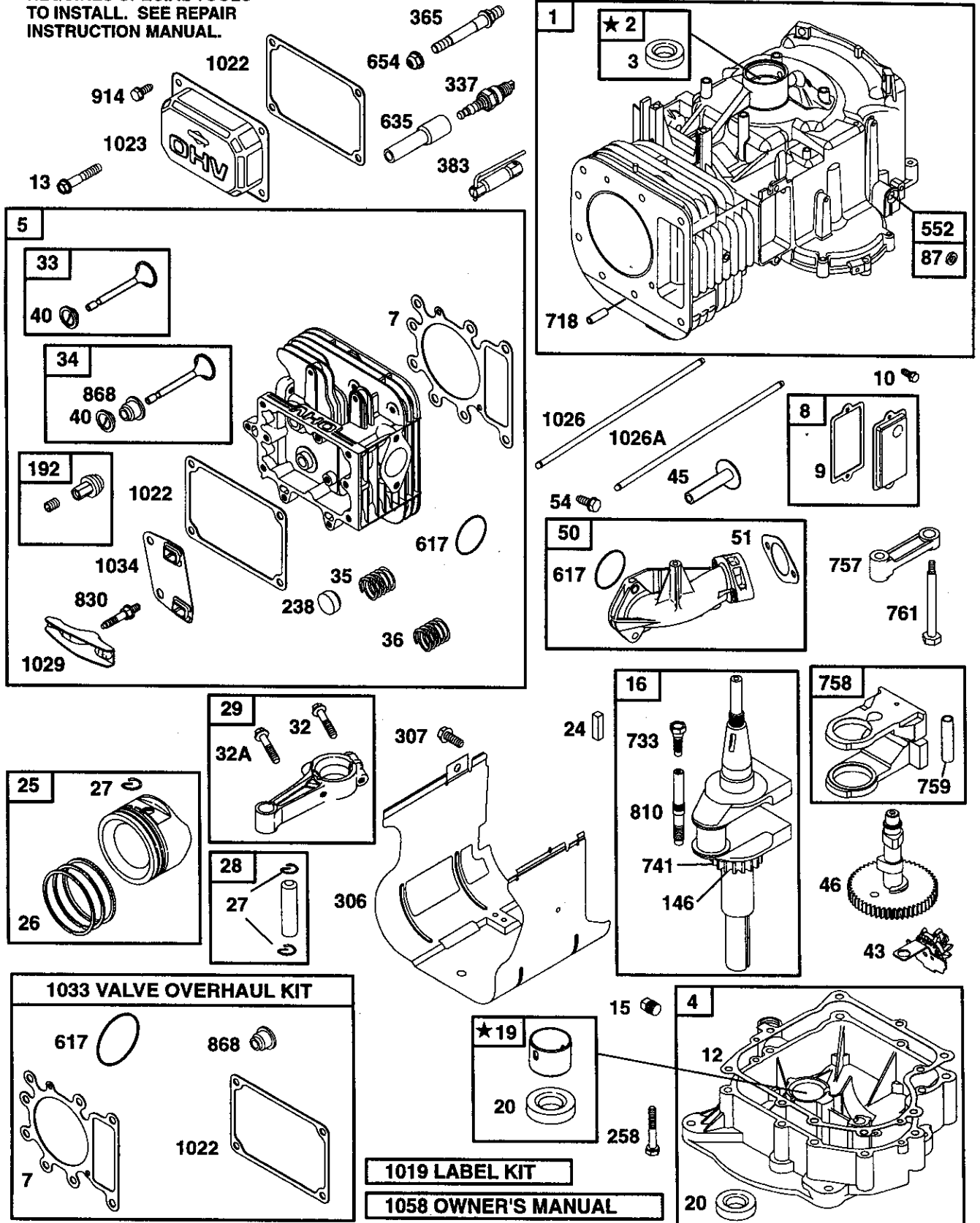
**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

BRIGGS ENGINE - MODEL NUMBER 28U707, TYPE NUMBER 1175-E1

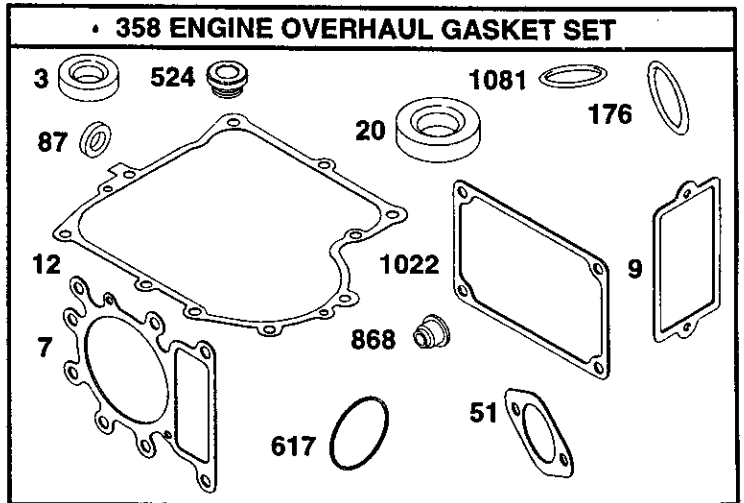
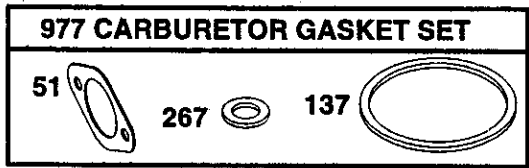
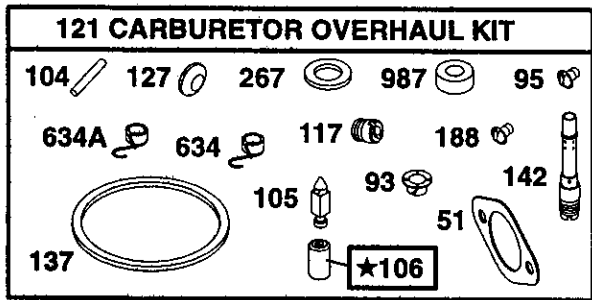
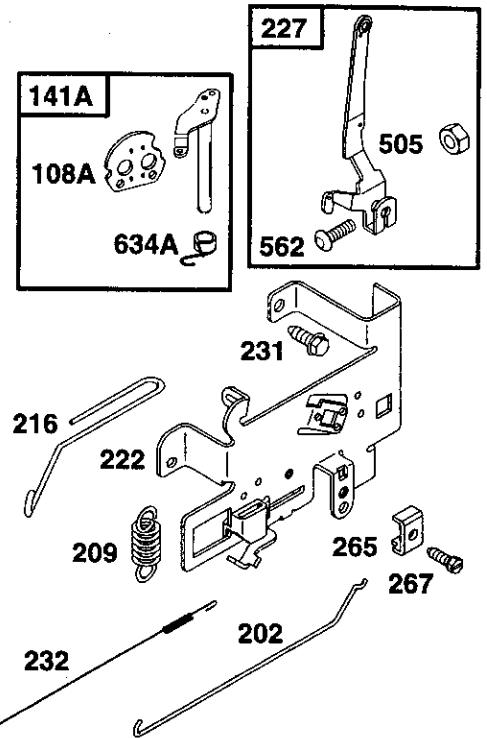
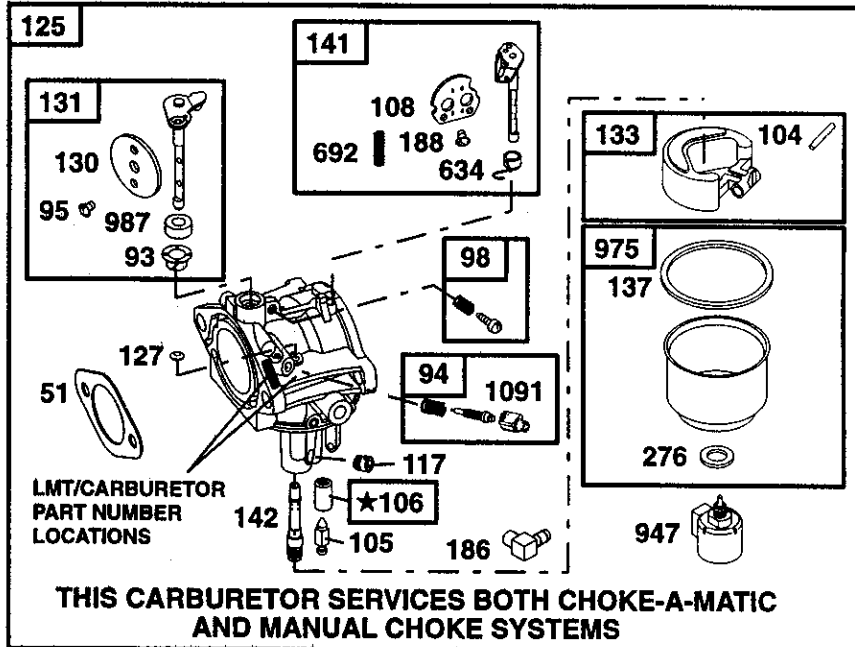
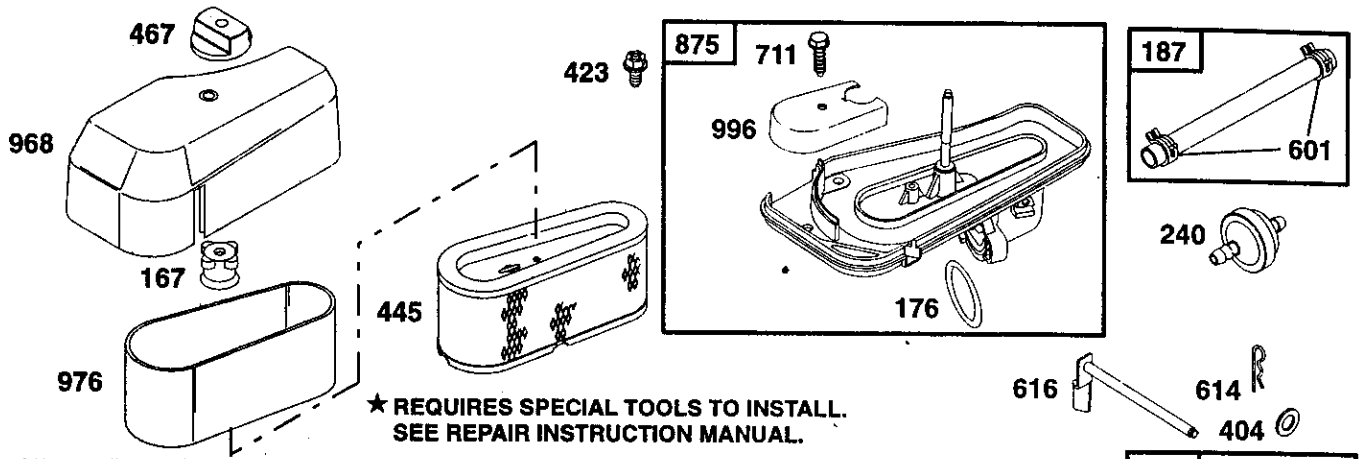
★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.



# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

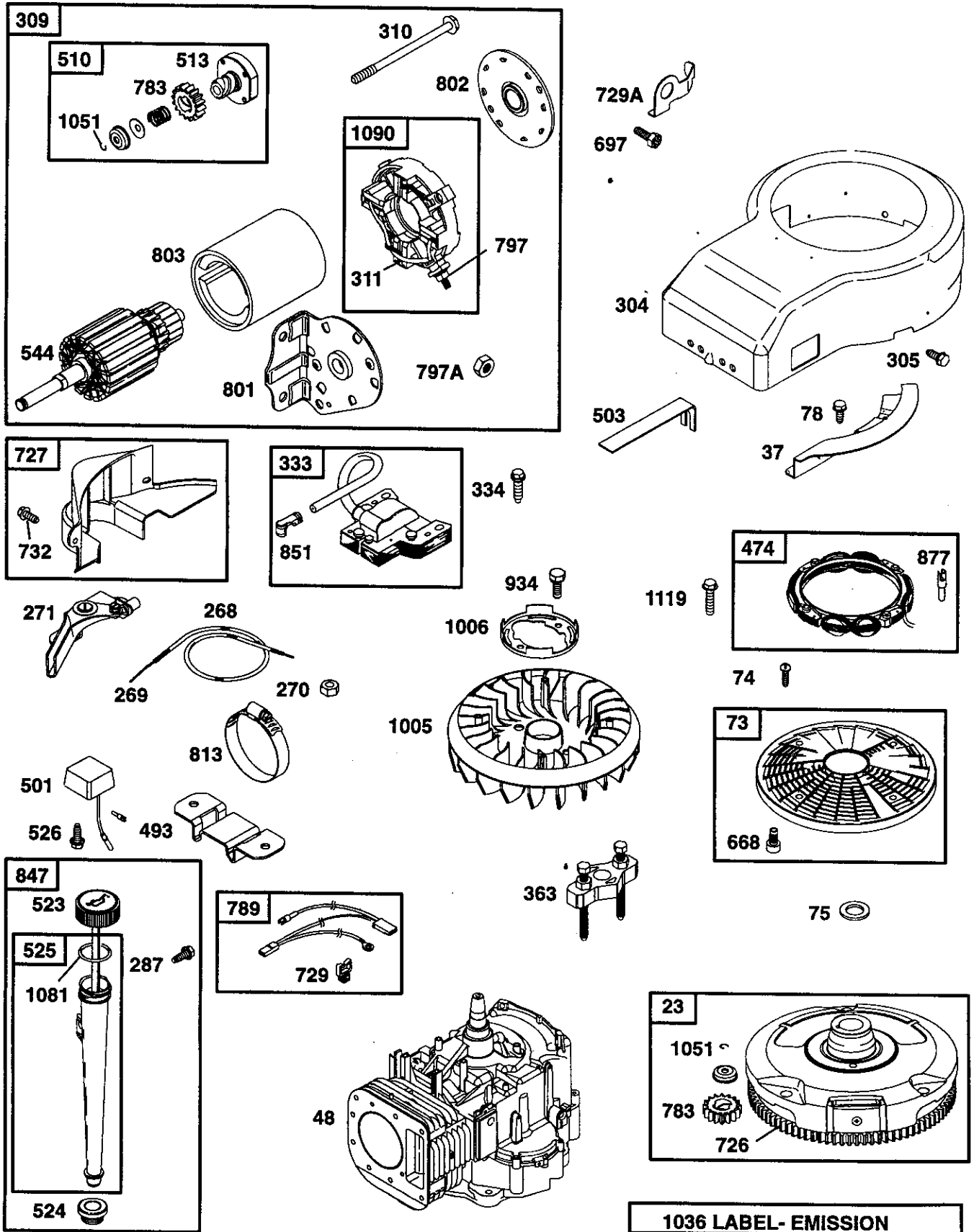
BRIGGS ENGINE - MODEL NUMBER 28U707, TYPE NUMBER 1175-E1



# REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.609150

BRIGGS ENGINE - MODEL NUMBER 28U707, TYPE NUMBER 1175-E1





# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### BRIGGS ENGINE - MODEL NUMBER 28U707, TYPE NUMBER 1175-E1

KEY PART NO.	PART NO.	DESCRIPTION	KEY PART NO.	PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	98	495800	Kit-Idle Speed
2	399265	Bushing/Seal Kit	104	231789	● Pin-Float Hinge
3	391086	★ Seal-Oil	105	231855	● Valve-Float Needle
4	494238	Sump-Engine	106	231854	● Seat-Inlet
5	691165	Head-Cylinder	108	224558	Valve-Choke (LMT 155)
7	273280	★+ Gasket-Cylinder Head	108A	224540	Valve-Choke (LMT 154)
8	495735	Breather Assembly	117.	232118	● Jet, Main
9	27803	★ Gasket-Breather	121	690191	Carburetor Overhaul Kit
10	94621	Screw (Breather Assembly)	125	499153	Carburetor
12	271916	★ Gasket-Crankcase (.015" Thick, Std.)	127	---	● Plug-Weich (Sold in Kit Only)
	271997	★ Gasket-Crankcase (.005" Thick)	130	224539	Valve-Throttle
	271996	★ Gasket-Crankcase (.009" Thick)	131	494379	Throttle Shaft Kit
13	94728	Screw (Cylinder Head)	133	494381	Float-Carburetor
15	94239	Plug-Oil Drain	137	281165	●◆ Gasket-Float Bowl
16	495162	Crankshaft	141	495097	Choke Shaft Kit (LMT 155)
20	291675	★ Seal-Oil	141A	495931	Choke Shaft Kit (LMT 154)
23	693556	Flywheel (Includes Steel Pinion Gear)	142	232117	● Nozzle-Carburetor
24	222698	Key-Flywheel	146	94196	Key-Timing
25	499284	Piston Assembly (Std.)	165	693148	Nut (Ring Gear)
	499288	Piston Assembly (.010" O.S.)	167	281051	Seal-Air Cleaner Stud
	499292	Piston Assembly (.020" O.S.)	176	281106	★ O-Ring Seal (Air Cleaner Base)
	499296	Piston Assembly (.030" O.S.)	186	493496	Connector-Hose
26	495854	Ring Set, Piston (Std.)	187	298049	Line-Fuel (Cut to Required Length)
	495852	Ring Set (.010" O.S.)	188	94098	Screw (Choke Valve)
	495851	Ring Set (.020" O.S.)	192	492160	Adjuster, Rocker Arm
	495855	Ring Set (.030" O.S.)	202	262767	Link-Mechanical Governor
27	263129	Lock-Piston Pin	209	260695	Spring, Governor
28	498319	Pin-Piston (Std.)	216	262766	Link-Choke
	498320	Pin Assembly-Piston (.005" O.S.)	222	495611	Bracket, Control
29	494504	Rod-Connecting (Std.)	227	493935	Lever-Governor
	495490	Rod-Connecting (.020 U.S.)	231	94620	Screw (Control Bracket)
32	94695	Screw (Connecting Rod)(1-7/8")	232	262785	Spring-Link
32A	94648	Screw (Connecting Rod)(1-5/8")	238	262836	Cap, Valve
33	495856	Valve-Exhaust	240	394358	Filter-Fuel
34	495857	Valve, Intake	258	95187	Screw (Engine Sump)
35	262811	Spring, Intake Valve	265	221535	Clamp-Casing
36	262811	Spring, Exhaust Valve	267	93496	Screw (Casing Clamp)
37	224502	Guard-Flywheel	268	65616	Casing-Control Wire (Cut to Required Length)
40	224641	Retainer, Valve			Wire-Control (Cut to Required Length)
43	490815	Governor-Oil Slinger	269	26633	Nut (Control Wire Casing)
45	262411	Tappet, Valve	270	63426	Lever-Control
46	496884	Cam Gear	271	290568	●◆ Sealing Washer
48	496050	ShortBlock	276	281164	Screw (Oil Fill Tube)
50	690193	Manifold, Intake	287	94903	Housing-Blower
51	273650	★●◆ Gasket-Intake	304	496280	Screw (Blower Housing)
54	95160	Screw (Intake Manifold)	305	94786	Shield, Cylinder
73	494439	Screen-Rotating	306	224696	Screw (Cylinder Shield)
74	94832	Screw (Rotating Screen)	307	94930	
75	224061	Washer (Flywheel)			
78	93705	Screw (Flywheel Guard)			
87	491323	★ Seal-Governor Shaft			
93	281346	● Bushing-Throttle Shaft			
94	498030	Kit-Idle Adjustment			
95	94098	● Screw (Throttle Valve)			

RPM Settings: Low Speed: 1900-2100  
High Speed: 3000-3200

- ★ Included in Gasket Set, Ref Number 358.
- Included in Carburetor Kit, Ref Number 121.
- ◆ Included in Carburetor Gasket Set, Ref Number 977.
- + Included in Valve Overhaul Kit, Ref Number 1033.

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 944.609150

### BRIGGS ENGINE - MODEL NUMBER 28U707, TYPE NUMBER 1175-E1

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
309 693551	Motor-Starter(For Steel Ring Gear Only)	758 692423	Counterweight
310 94003	Bolt (Starter Motor)	759 230787	Pin-Counterweight
311 497608	Brush Set	761 94593	Screw (Counterweight)
333 495859	Armature, Magneto	783 693713	Gear-Pinion
334 94731	Screw (Magneto Armature)	789 497708	Harness, Wiring
337 491055	Spark Plug	797 693167	Nut (Brush Retainer)
358 691580	Engine Overhaul Gasket Set	801 497626	Cap-Drive
363 19203	Flywheel Puller	802 497607	Cap-End
365 690227	Stud (Carburetor)	803 497604	Housing-Starter
383 89838	Wrench-Spark Plug	810 231828	Extension Crankshaft
404 94742	Washer (Governor Crank)	813 393514	Clamp
423 692129	Screw (Air Cleaner Base)	830 94555	Stud-Rocker Arm
445 496894	Filter-Air Cleaner Cartridge	847 496415	Dipstick/Tube Assembly
467 493903	Knob-Air Cleaner	851 224110	Terminal-Cable
474 392595	Alternator	868 499236	★+ Seal- Valve
493 222934	Bracket-Mounting	875 495862	Base, Air Cleaner
501 491546	Regulator	877 393537	Wire-Alternator
503 806000	Strap-Starter	914 94863	Screw (Rocker Cover)
505 231978	Nut (Governor Lever)	934 94627	Screw (Fan Retainer)
510 693699	Drive, Starter	947 497672	Solenoid-Fuel
513 398003	Clutch-Drive	967 272403	Filter-Pre Cleaner
523 495230	Dipstick	968 281361	Cover, Air Cleaner
524 281370	★ Seal-Fill Tube	975 495933	Bowl-Float
525 496113	Tube-Oil Fill	977 690192	Carburetor Gasket Set
526 94137	Screw (Regulator)	987 281166	● Seal-Throttle Shaft
544 497603	Armature-Starter	996 690678	Shield-Carburetor
552 491986	Bushing-Governor Crank	1005 281400	Fan-Flywheel
562 92613	Bolt (Governor Lever)	1006 224413	Retainer-Fan
579 92278	Nut (Starter Cable)	1019 496758	Label Kit
601 93053	Clamp-Hose	1022 272475	★+ Gasket-Rocker Cover
607 94620	Screw (Air Cleaner Base)	1023 224552	Cover-Rocker
614 93306	Pin-Cotter	1026 494432	Rod-Push (Intake)
616 495157	Crank-Governor	1026A 495136	Rod-Push (Exhaust)
617 693138	★+ O-Ring Seal (Intake Manifold)	1029 224554	Arm-Rocker
634 494453	● Seal & Spring Assembly (LMT 155)	1033 691581	Valve Overhaul Kit
634A 494455	● Seal & Spring Assembly (LMT 154)	1034 495248	Guide-Push Rod
635 280872	Boot, Spark Plug	1036 499364	Emissions Label
646 224546	Brace-Air Cleaner	1051 263080	Ring-Retaining
654 94010	Nut (Carburetor)	1058 273683	Owner's Manual
668 805402	Spacer	1081 270920	★ O-Ring Seal
692 262715	Spring-Detent	1090 497605	Retainer-Brush
695 693109	Screw (Ring Gear)	1091 281364	Cap-Limiter
697 94773	Screw (Drive Cap)	1119 93621	Screw (Alternator)
711 94704	Screw (Carburetor Shield)	— — 311707-0026-E1	Replacement Engine
718 230192	Pin-Locating		
726 — — —	Gear Ring (Steel-Serviced By Ref. No. 23 Only)		
727 490324	Cover, Starter Drive		
729 281390	Clip, Wire		
729A 691224	Clip, Wire		
732 94903	Screw (Starter Drive Cover)		
733 94673	Screw (Crankshaft Extension)		
741 262932	Gear-Timing		
757 213998	Link-Counterweight		

\* RPM Settings: Low Speed: 1900-2100  
High Speed: 3000-3200

★ Included in Gasket Set, Ref Number 358.

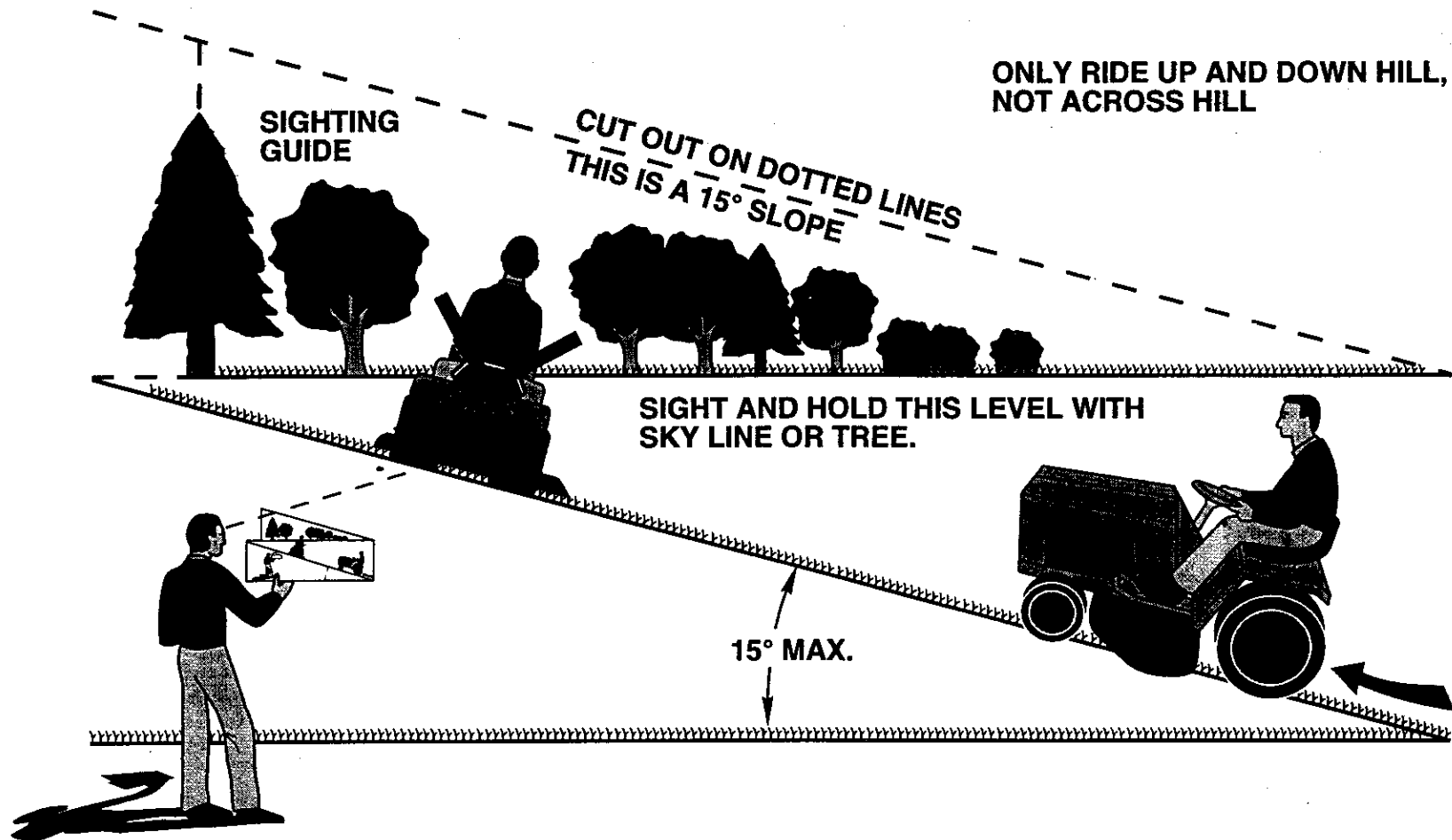
● Included in Carburetor Kit, Ref Number 121.

◆ Included in Carburetor Gasket Set, Ref Number 977.

+ Included in Valve Overhaul Kit, Ref Number 1033.

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

**SEARS**  
**OWNER'S**  
**MANUAL**

**MODEL NO.**  
**944.609150**

**HOW TO ORDER**  
**REPAIR PARTS**

**CRAFTSMAN®**  
**15.5 HP**  
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**36" MOWER**  
**AUTOMATIC**  
**LAWN TRACTOR**

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears Canada, Inc. Service Centre/Department and most Retail Stores.

**WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:**

- **PRODUCT - TRACTOR**
- **MODEL NUMBER - 944.609150**
- **ENGINE MODEL NUMBER - 28U707, TYPE NUMBER 1175-E1**
- **PART NUMBER**
- **PART DESCRIPTION**

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Halifax - 454-2444

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Ottawa - 738-4440

Vancouver - 420-8211

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**Sears Canada, Inc., Toronto, Ontario M5B 2B8**