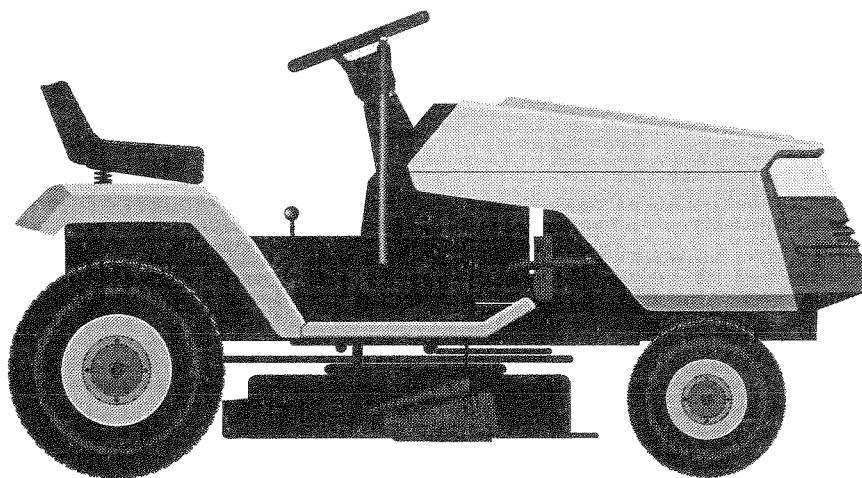


SEARS

OWNER'S MANUAL

**MODEL NO.
944.605021**

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



CRAFTSMAN®

**12.5 HP IC
ELECTRIC START
38" MOWER
5 SPEED TRANSAXLE
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 Centre/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	944.605021
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:	12.5
GASOLINE CAPACITY AND TYPE:	5 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	3 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ19LM STD361458
VALVE CLEARANCE:	INTAKE: .005" - .007" EXHAUST: .009" - .011"
GROUND SPEED (MPH):	FORWARD: 1st 1.0 2nd 2.1 3rd 3.1 4th 4.0 5th 5.1 REVERSE: 1.6
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 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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WARRANTY

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.

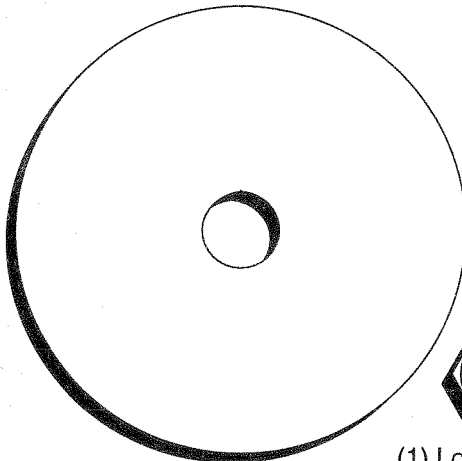
Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

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.

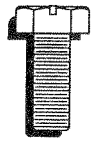
SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

CONTENTS OF HARDWARE PACK

Parts Bag contents shown full size



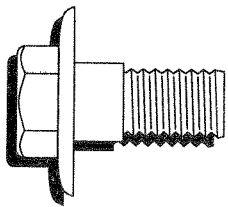
(1) Large Flat Washer



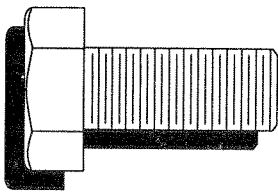
(2) Sheet Metal Screws #10-16 x 1/2



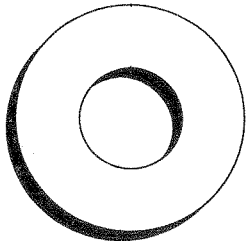
(1) Locknut 3/8-24



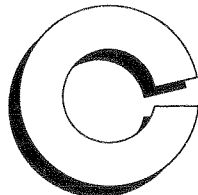
(1) Shoulder Bolt 5/16-18



(1) Hex Bolt 1/2-13 x 1



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



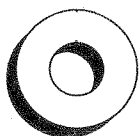
(1) Lock Washer 1/2



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



(2) Hex Nuts 1/4-20

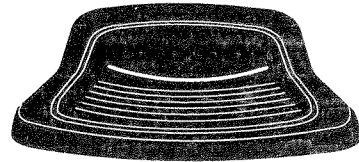


(2) Washers 9/32 x 5/8 x 16 Gauge

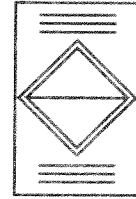


(2) Lock Washers 1/4

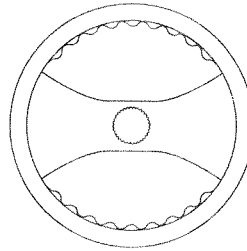
Parts packed separately in carton



Seat



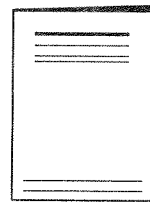
Battery acid



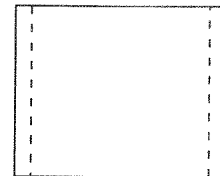
Steering Wheel



Steering Boot

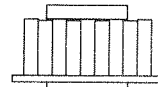


Manual

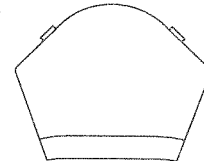


Parts Bag

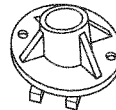
Parts bag contents not shown full size



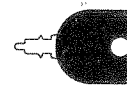
Steering Wheel Adapter



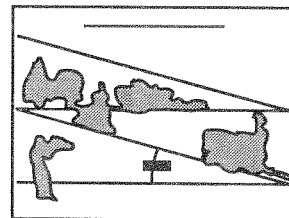
Steering Wheel Insert



Steering Bushing



(2) Keys



Slope Sheet

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.

- | | |
|--------------------|---------------------|
| (1) 5/16" wrench | (1) 3/4" wrench |
| (2) 7/16" wrenches | Tire pressure gauge |
| (1) 1/2" wrench | Utility knife |
| (1) 9/16" wrench | |

When right or 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 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)

- Slide the steering bushing over the steering shaft.
- Raise steering shaft forward until screw holes in dash line up with steering bushing. Install two (2) sheet metal screws and tighten securely.
- Position steering boot over steering shaft.
- Place tabs of steering boot over tab slots in dash and push down to secure.
- Slide steering wheel adapter onto upper steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Assemble large flat washer and 3/8-24 locknut and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic 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.

TO ROLL TRACTOR OFF SKID (See Fig. 6)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

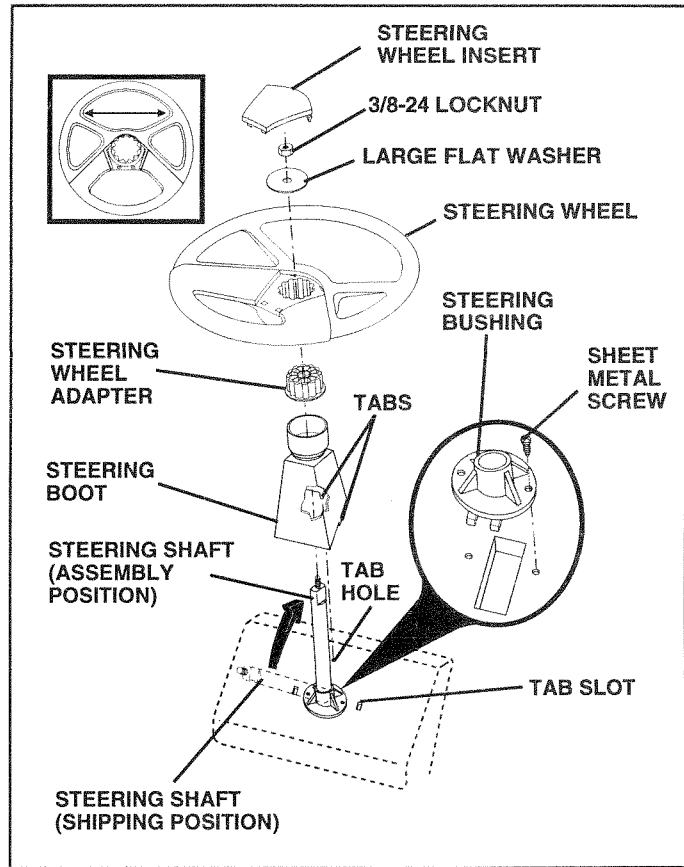


FIG. 1

HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Figs. 2A and 2B)



CAUTION: Wear eye and face shield.

Wash hands or clothing immediately if accidentally in contact with battery acid.

Do not smoke. Fumes from charged battery acid are explosive.

Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

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.

- See instructions packed with vent caps in parts bag.
- Remove cardboard packing from seat pan, raise seat pan and open battery box door.
- Remove battery from tractor to fill with acid and charge.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.

ASSEMBLY

- Allow battery to stand and settle for at least thirty minutes. After standing, check the battery cell acid level. If below the vent wells, add more acid until the correct level is reached.

While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of tractor.

IMPORTANT: TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE.

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to two gallons of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- Follow instructions on how to install battery.

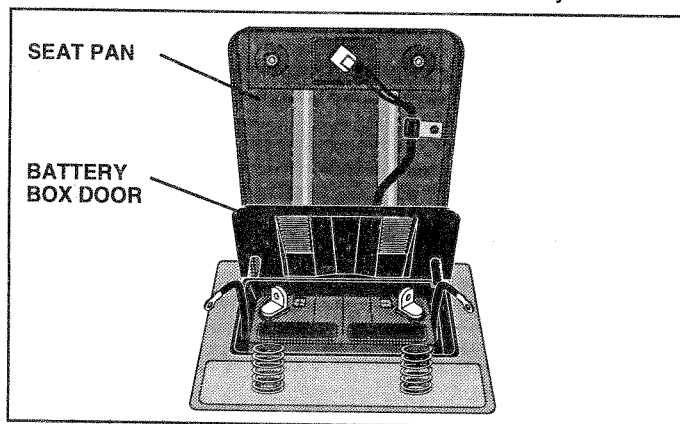


FIG. 2A

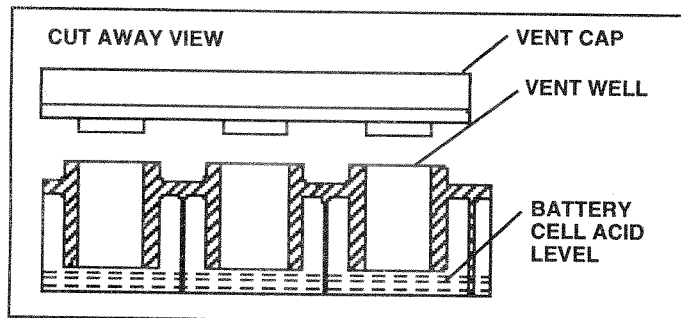


FIG. 2B

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment bolt, lock washer and flat washer loosely. Do not tighten.
- Tighten shoulder bolt securely.
- 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 bolt securely.

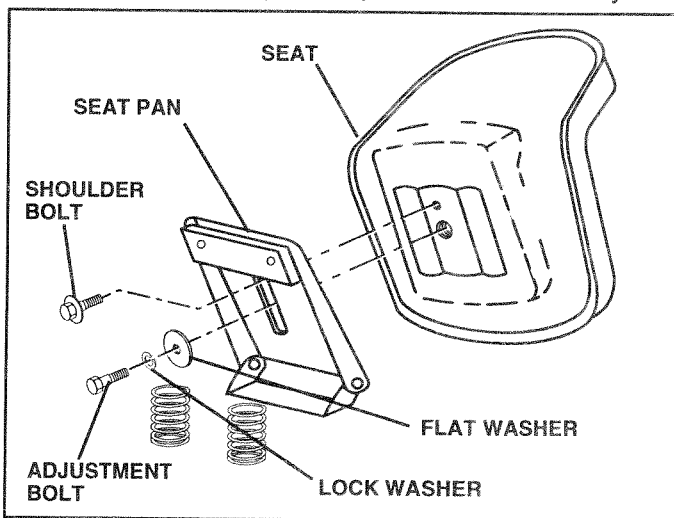


FIG. 3

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.

ASSEMBLY

INSTALL BATTERY (See Figs. 4 and 5)



CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

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

- Lift seat to raised position.
- Open battery box door.
- Be sure battery drain tube is attached to battery box.
- Lower battery into battery box with battery terminals toward front of tractor.
- First connect RED battery cable to positive (+) terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

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

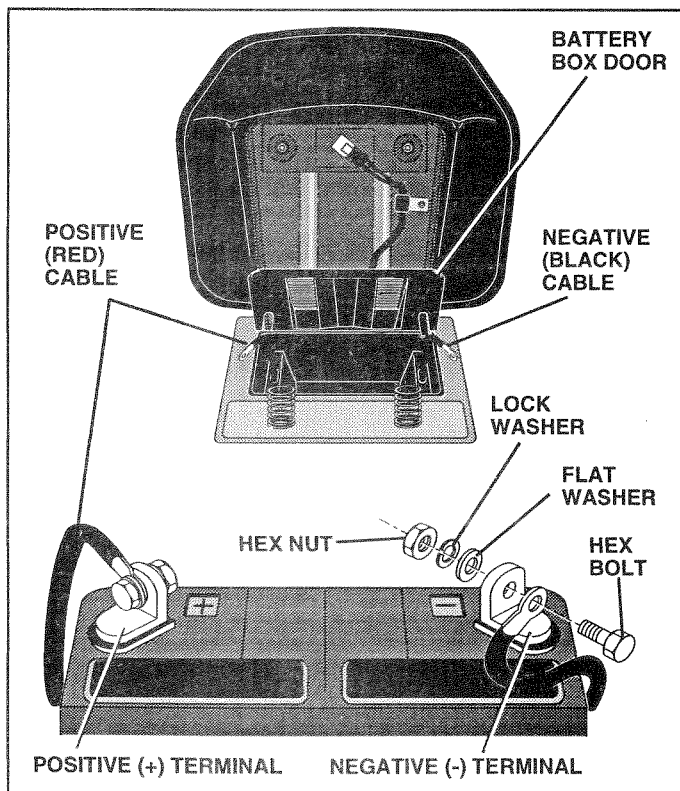


FIG. 4

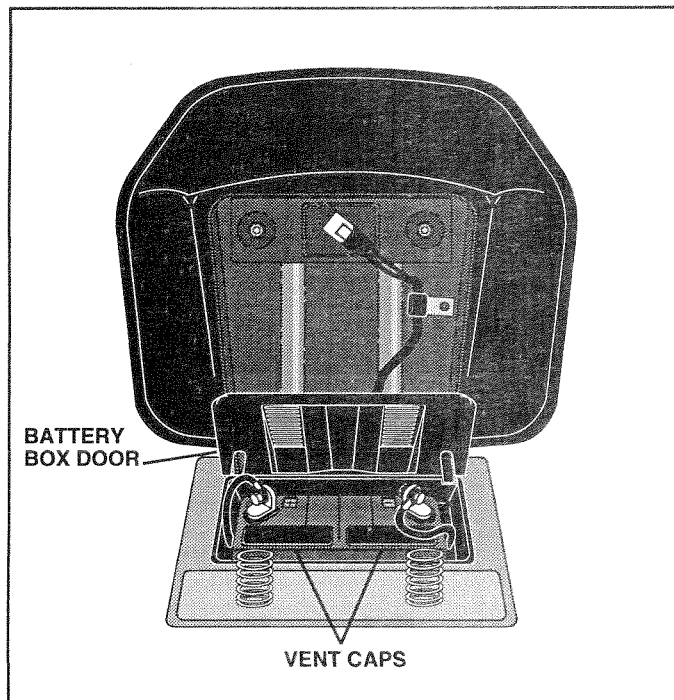


FIG. 5

✓ 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:

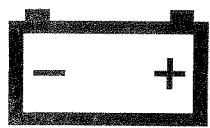
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated 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.

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.

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



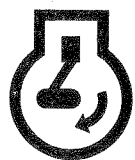
FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



CLUTCH



LIGHTS ON



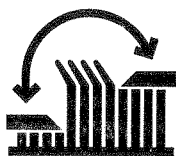
LIGHTS OFF



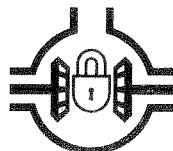
FUEL



CHOKE



MOWER HEIGHT



DIFFERENTIAL
LOCK



PARKING BRAKE
LOCKED



UNLOCKED



MOWER LIFT

R

REVERSE

N

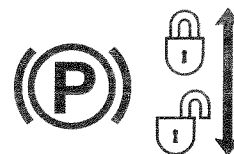
NEUTRAL

H

HIGH

L

LOW



PARKING BRAKE



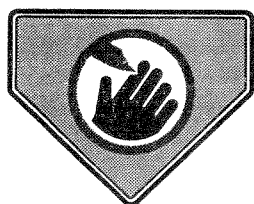
ATTACHMENT
CLUTCH ENGAGED



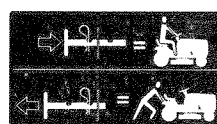
ATTACHMENT
CLUTCH DISENGAGED



IGNITION



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL
(Hydro 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.

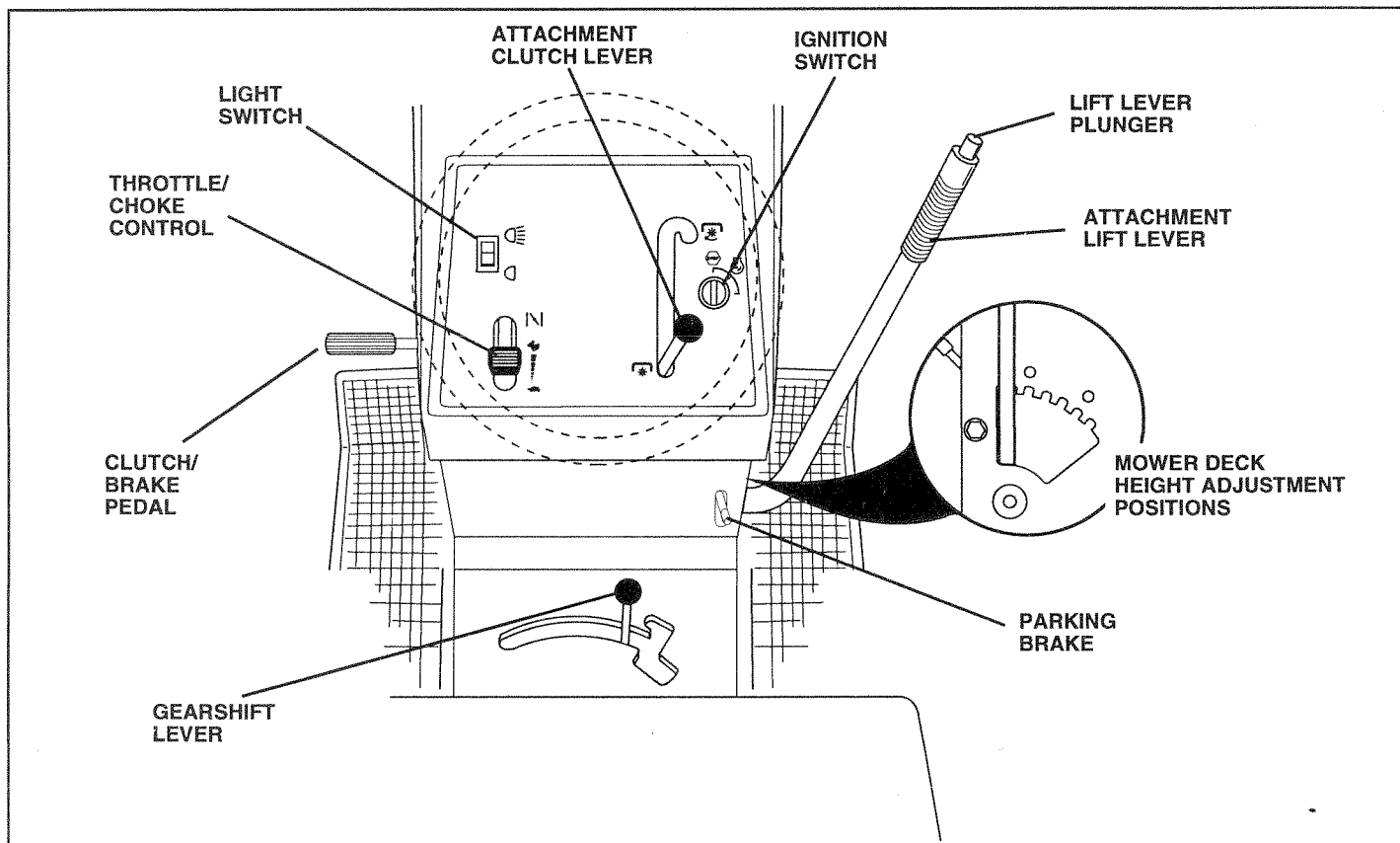


FIG. 6

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

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

LIGHT SWITCH: Turns the headlights on and off.

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

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

PARKING BRAKE: Locks clutch/brake pedal into the brake position.

GEARSHIFT LEVER: Selects the speed and direction of tractor.

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

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

IGNITION SWITCH: Used for starting and stopping the engine.

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 the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 7)

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.

- 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.

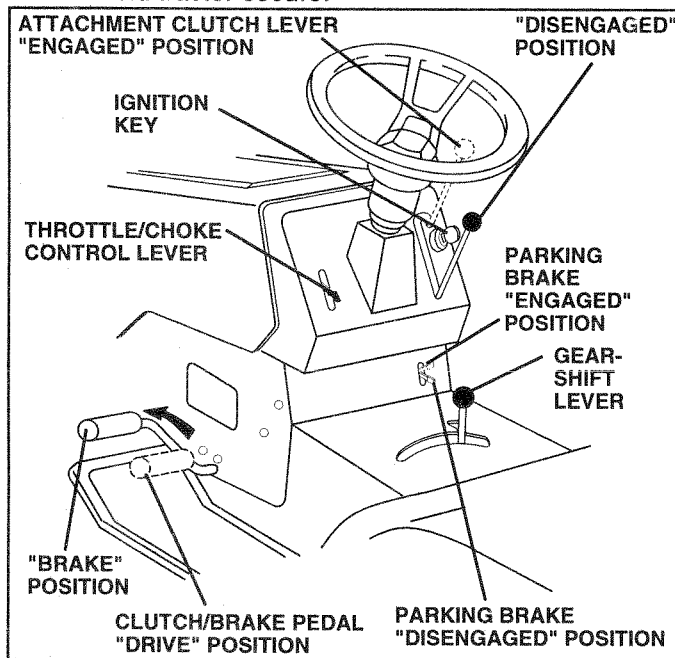


FIG. 7

STOPPING (See Fig. 7)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.

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.

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. 7)

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. 7)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

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. 8)

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.

- Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES - disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

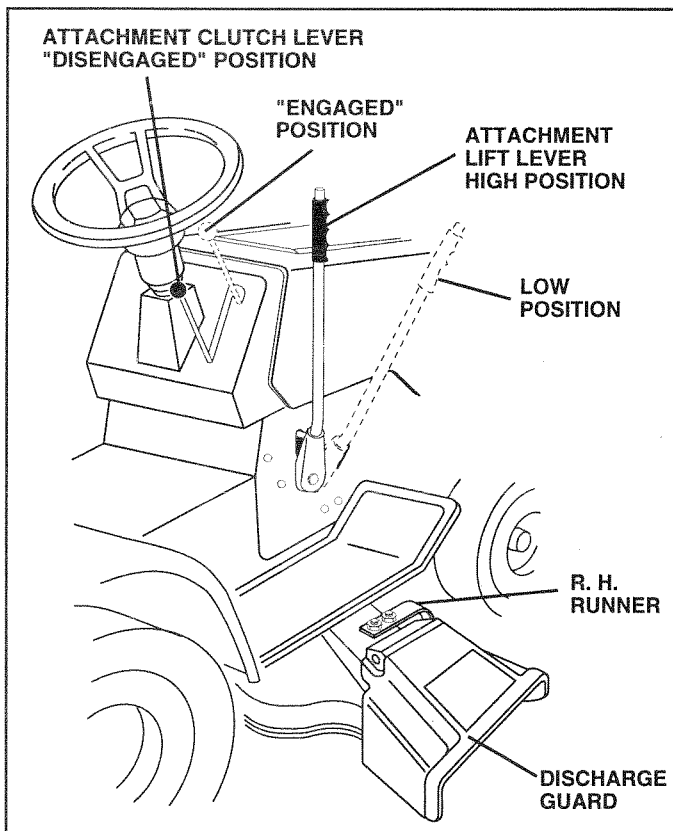


FIG. 8

TO OPERATE ON HILLS



CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- 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 gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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.).

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 14)

- 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.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, 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. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

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. 7)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to choke (N) position for cold engine start. For warm engine start, move throttle control to fast (F) position.
- 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 engine does not start after several attempts, move throttle control to fast (F) position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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.

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.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 8)
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 9).
- 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.

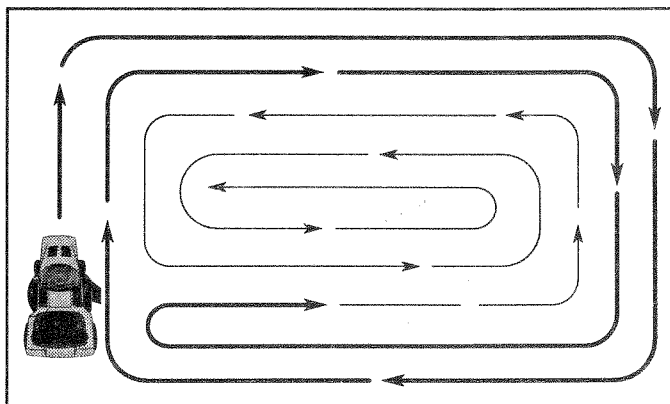


FIG. 9

CUSTOMER RESPONSIBILITIES

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

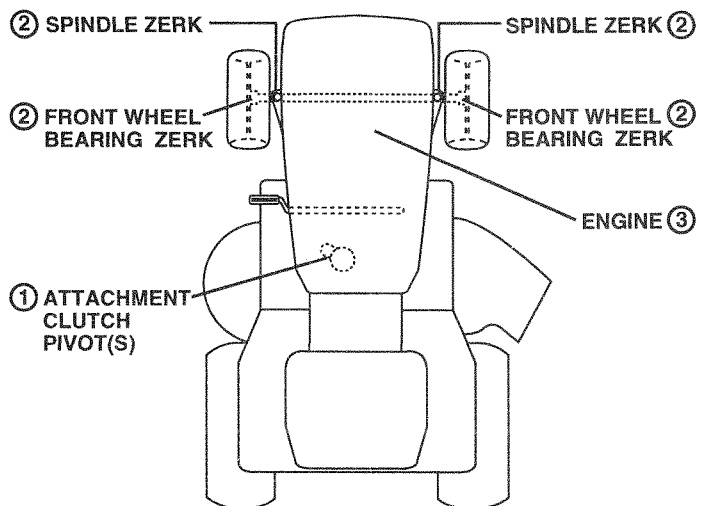
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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 for loose fasteners.

LUBRICATION CHART



- ① SAE 30 OR 10W30 MOTOR OIL
 ② GENERAL PURPOSE GREASE
 ③ REFER TO CUSTOMER RESPONSIBILITIES "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.

CUSTOMER RESPONSIBILITIES

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.

BLADE CARE

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

BLADE REMOVAL (See Fig. 10)

- 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.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

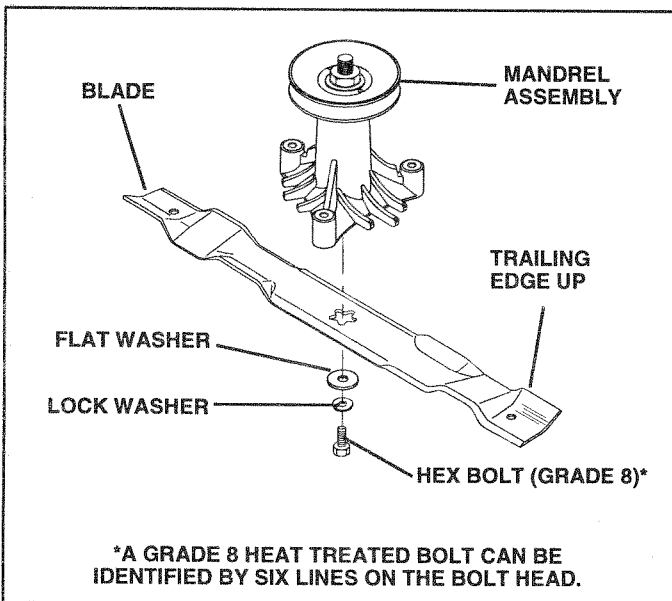


FIG. 10

TO SHARPEN BLADE (See Fig. 11)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

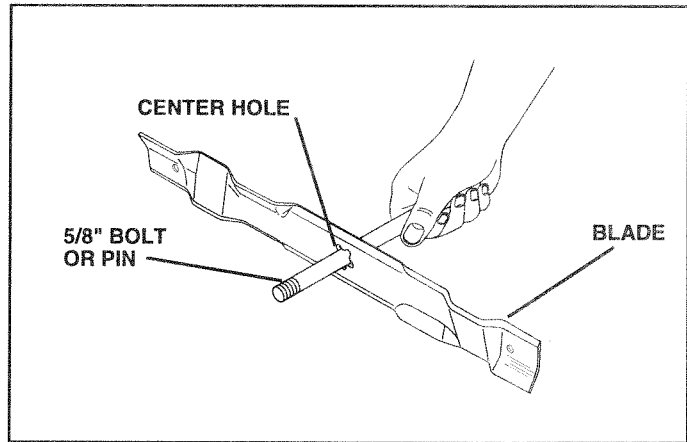


FIG. 11

CUSTOMER RESPONSIBILITIES

BATTERY (See Fig. 12)

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.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

TO CLEAN BATTERY AND TERMINALS

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

- Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- 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 "INSTALL BATTERY" in the Assembly section of this manual).

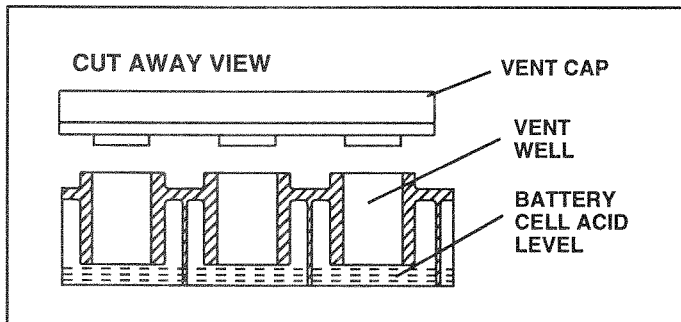


FIG. 12

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

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

ENGINE

LUBRICATION

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

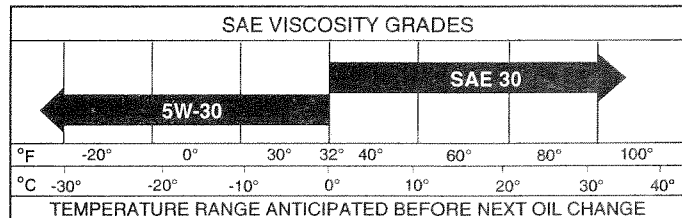


FIG. 13

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 the first two hours of operation and every 25 hours thereafter 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.

TO CHANGE ENGINE OIL (See Figs. 13 and 14)

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

- 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" on page 3 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.

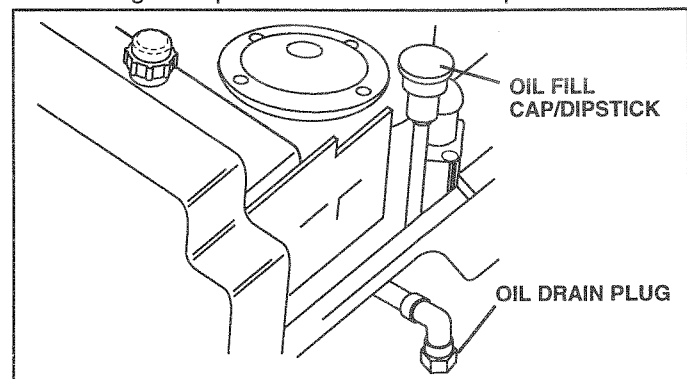


FIG. 14

CUSTOMER RESPONSIBILITIES

AIR FILTER (See Fig. 15)

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.
- 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.

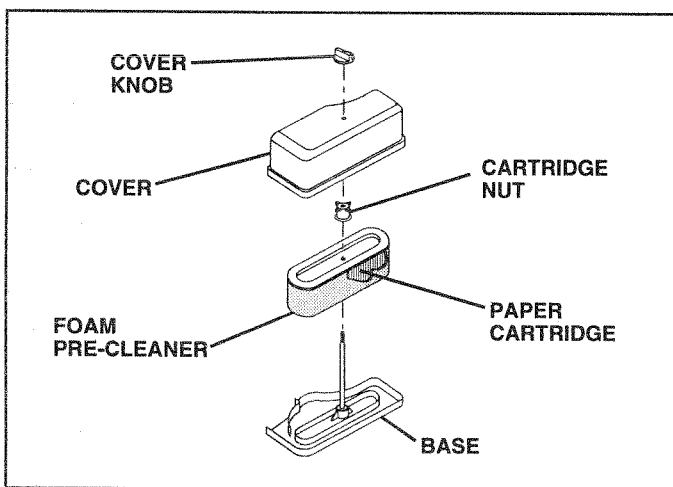


FIG. 15

CLEAN AIR SCREEN (See Fig. 16)

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. 16)

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

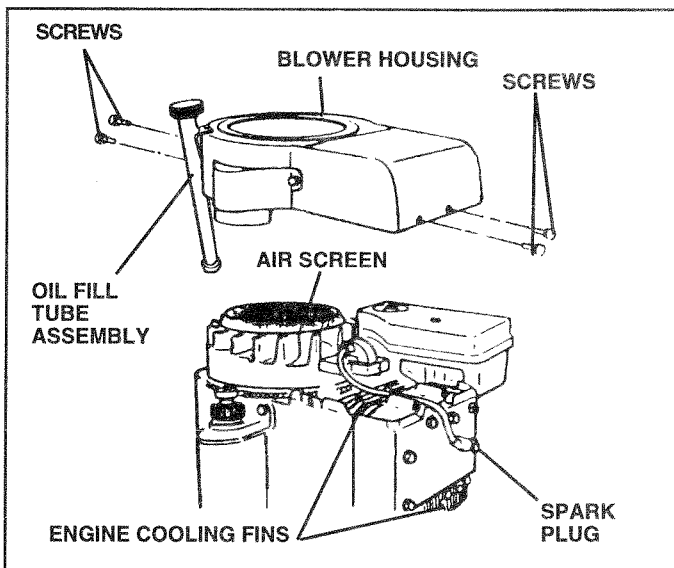


FIG. 16

CUSTOMER RESPONSIBILITIES

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 operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 17)

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.

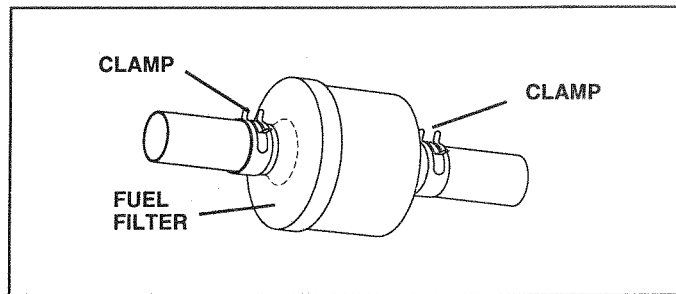


FIG. 17

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 gearshift 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.

TO REMOVE MOWER (See Fig. 18)

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

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- 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 IS TO BE MOUNTED TO THE TRACTOR, THE R.H. AND L.H. SUSPENSION ARMS MUST BE REMOVED FROM TRACTOR.

TO INSTALL MOWER (See Fig. 18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.

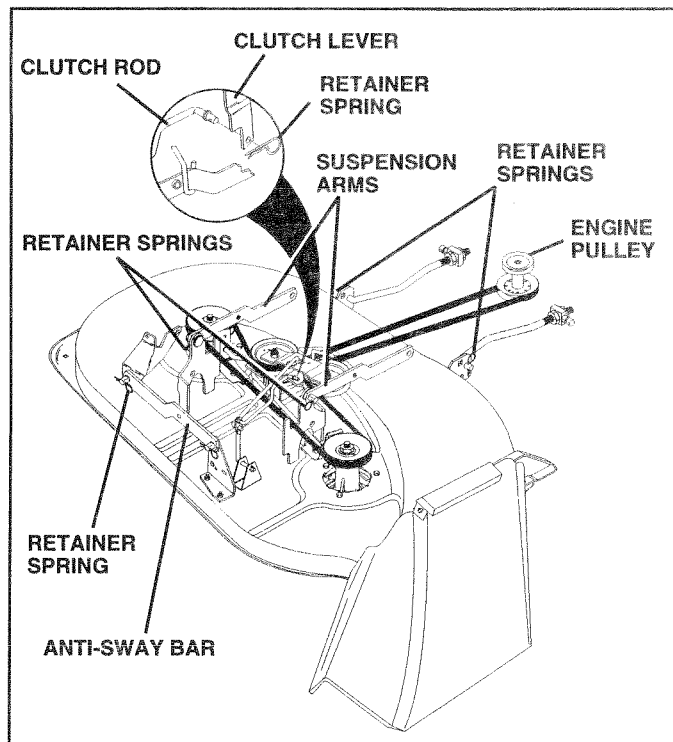


FIG. 18

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" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

- 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: Three full turns of adjustment nut will change mower height about 1/8".

- Recheck measurements after adjusting.

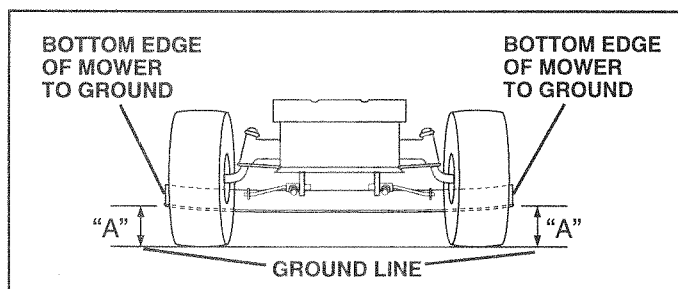


FIG. 19

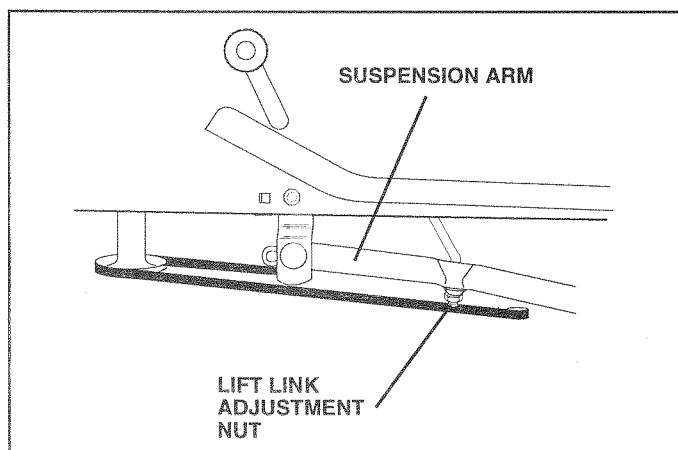


FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

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 1/4" to 3/4" 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 1/4" to 3/4" 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 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

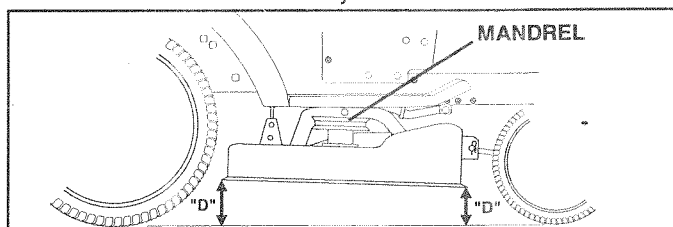


FIG. 21

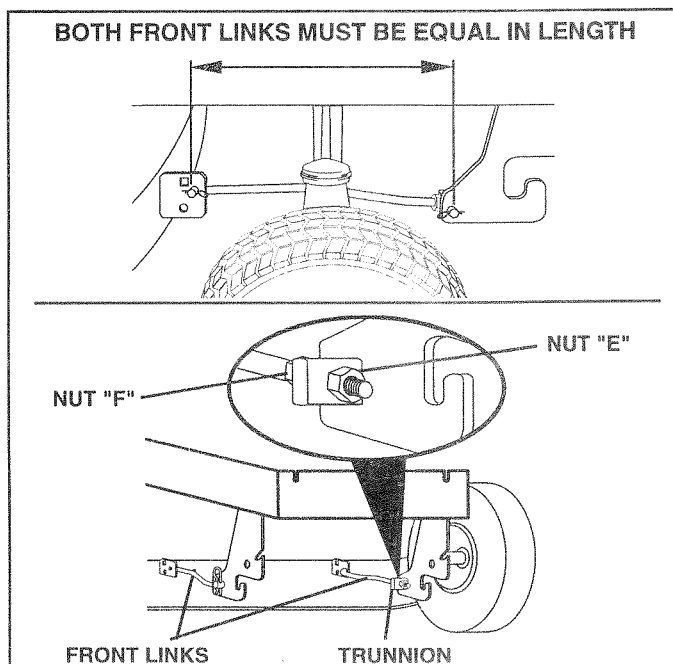


FIG. 22

SERVICE AND ADJUSTMENTS

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.

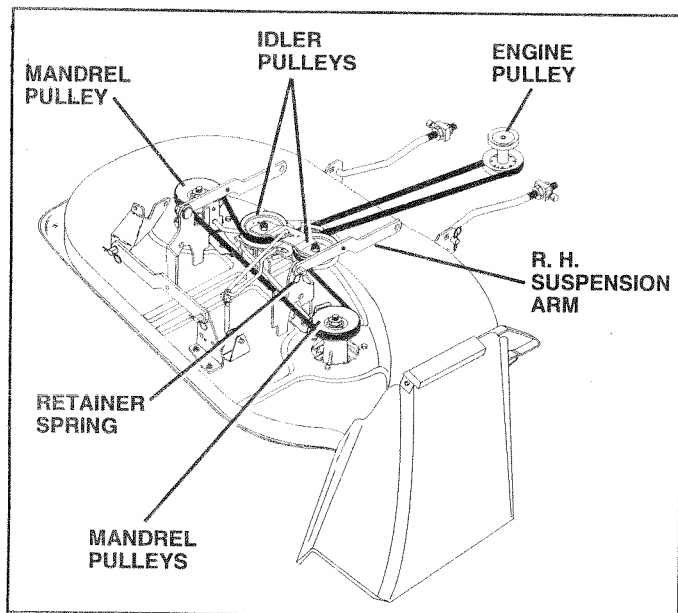


FIG. 23

TO ADJUST BRAKE (See Fig. 24)

Your tractor is equipped with an adjustable brake system which is mounted on the right 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 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- 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.

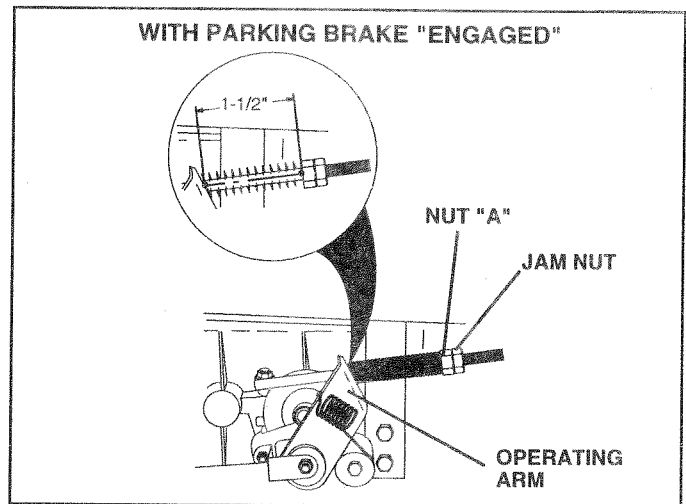


FIG. 24

SERVICE AND ADJUSTMENTS

TO REPLACE MOTION DRIVE BELT (See Fig. 25)

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.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.

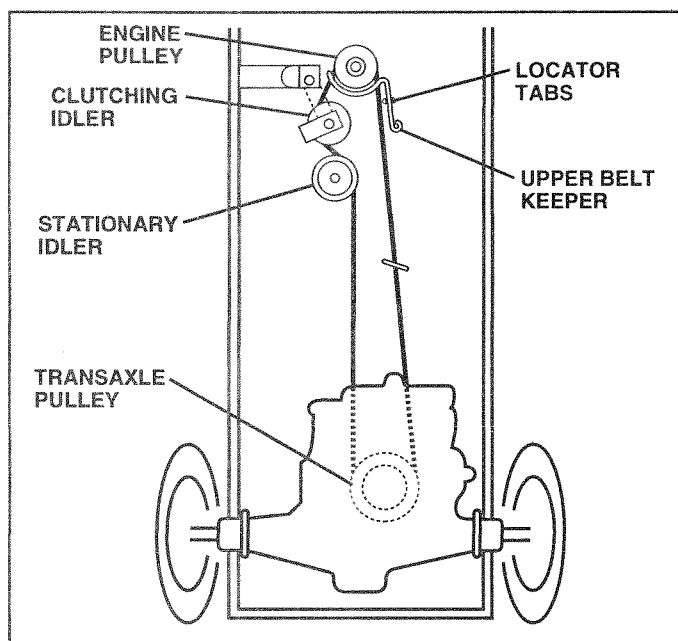


FIG. 25

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/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 26)

- 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.

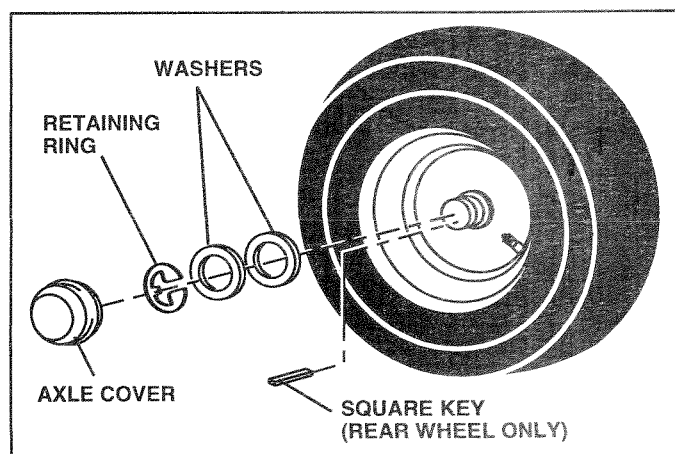


FIG. 26

SERVICE AND ADJUSTMENTS

TO START ENGINE WITH A WEAK BATTERY (See Fig. 27)



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.

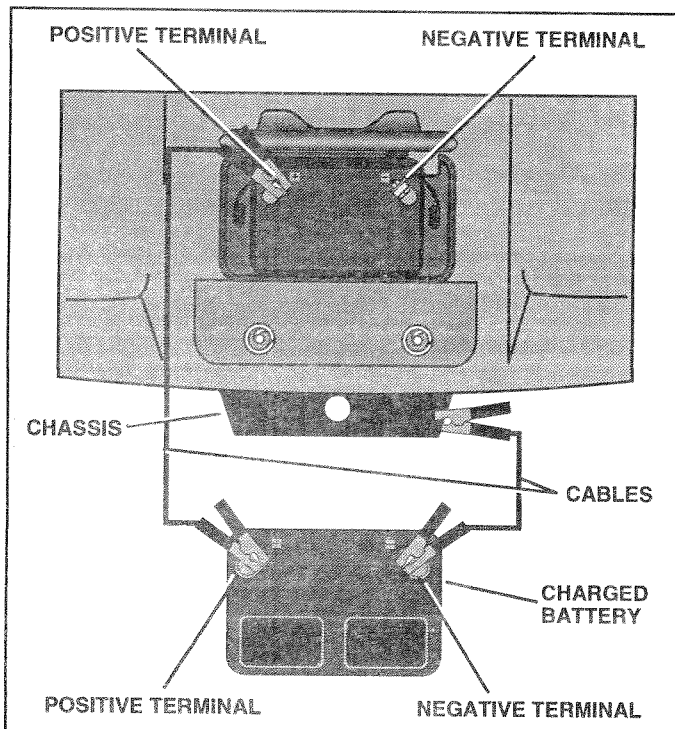


FIG. 27

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 the Repair Parts section of this manual.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 28)

- 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.

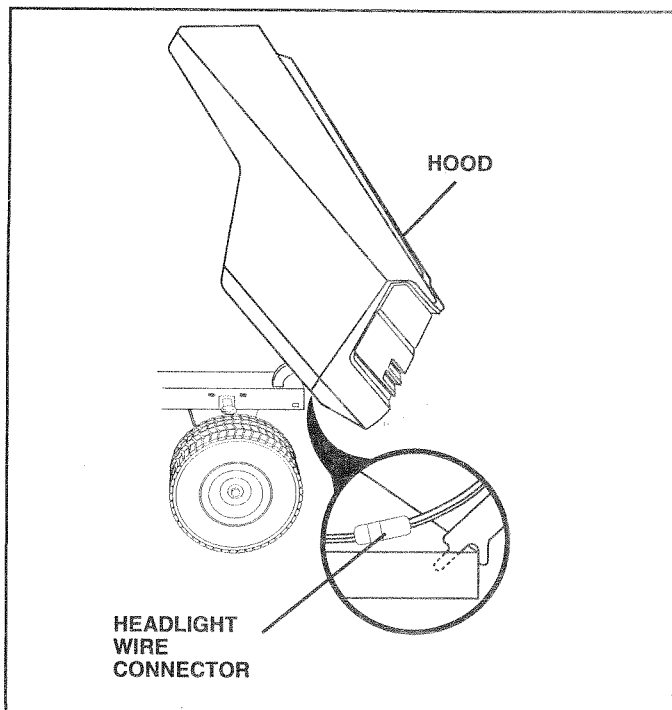


FIG. 28

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 29)

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.

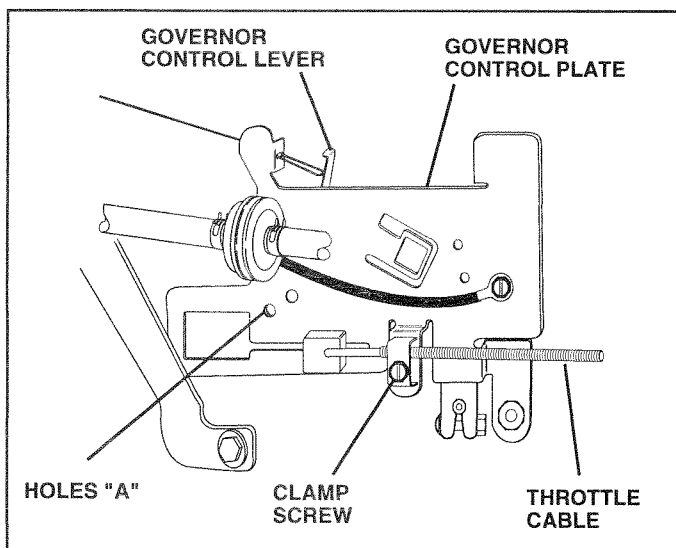


FIG. 29

TO ADJUST CARBURETOR (See Fig. 30)

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** (counterclockwise) 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).
- With engine off turn idle mixture valve **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1 full turn.

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 **in** (clockwise) until engine begins to die and then turn **out** (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.

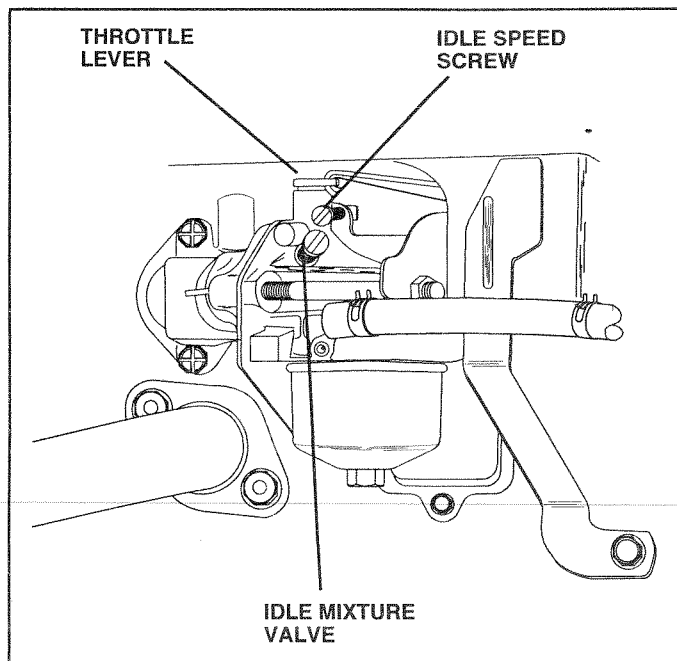


FIG. 30

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.
- Be sure battery drain tube is securely attached.
- 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).

CYLINDERS

- 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

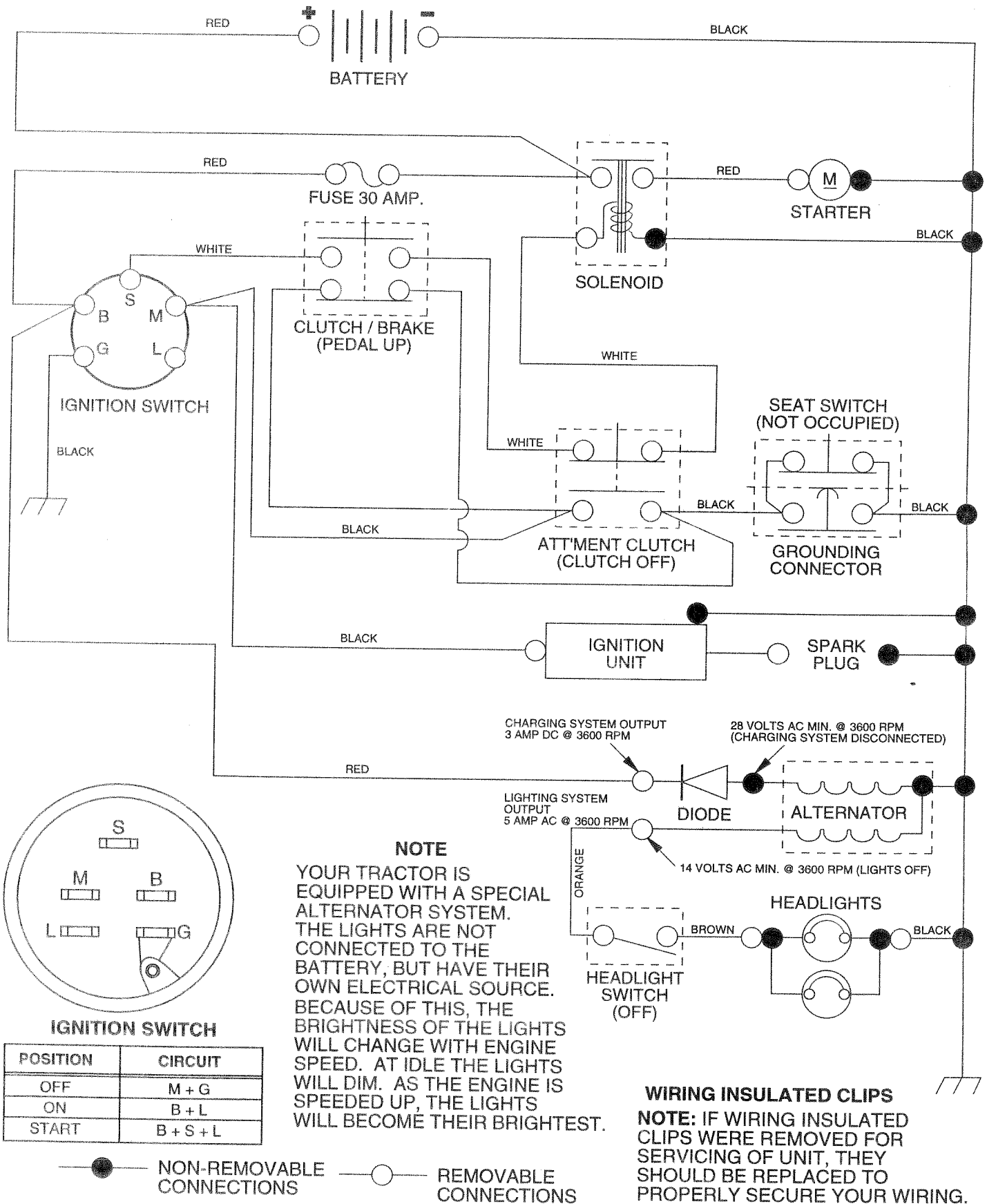
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service center/department. 10. Contact an authorized service center/department.
Hard to start	1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.	1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. Contact an authorized service center/department. 8. Contact an authorized service center/department.
Engine will not turn over	1. Clutch/brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center/department.
Engine clicks but will not start	1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter.	1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	1. Set in "Higher Cut" position/reduce speed. 2. Adjust throttle control. 3. Clean underside of mower housing. 4. Clean/replace air filter. 5. Check oil level/change oil. 6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Drain fuel tank and refill with fresh gasoline. 9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/fins. 12. Clean/replace muffler. 13. Check all wiring. 14. Contact an authorized service center/department. 15. Contact an authorized service center/department.
Excessive vibration	1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s).	1. Replace blade. Tighten blade bolt. 2. Replace blade mandrel. 3. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel. 5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel. 5. Clean around mandrels to open vent holes.
Mower blades will not rotate	1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel.	1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.
Poor grass discharge	1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn. 9. Blades improperly installed. 10. Improper blades used. 11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual. 11. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Engine "backfires" when turning engine "OFF"	1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR - - MODEL NUMBER 944.605021

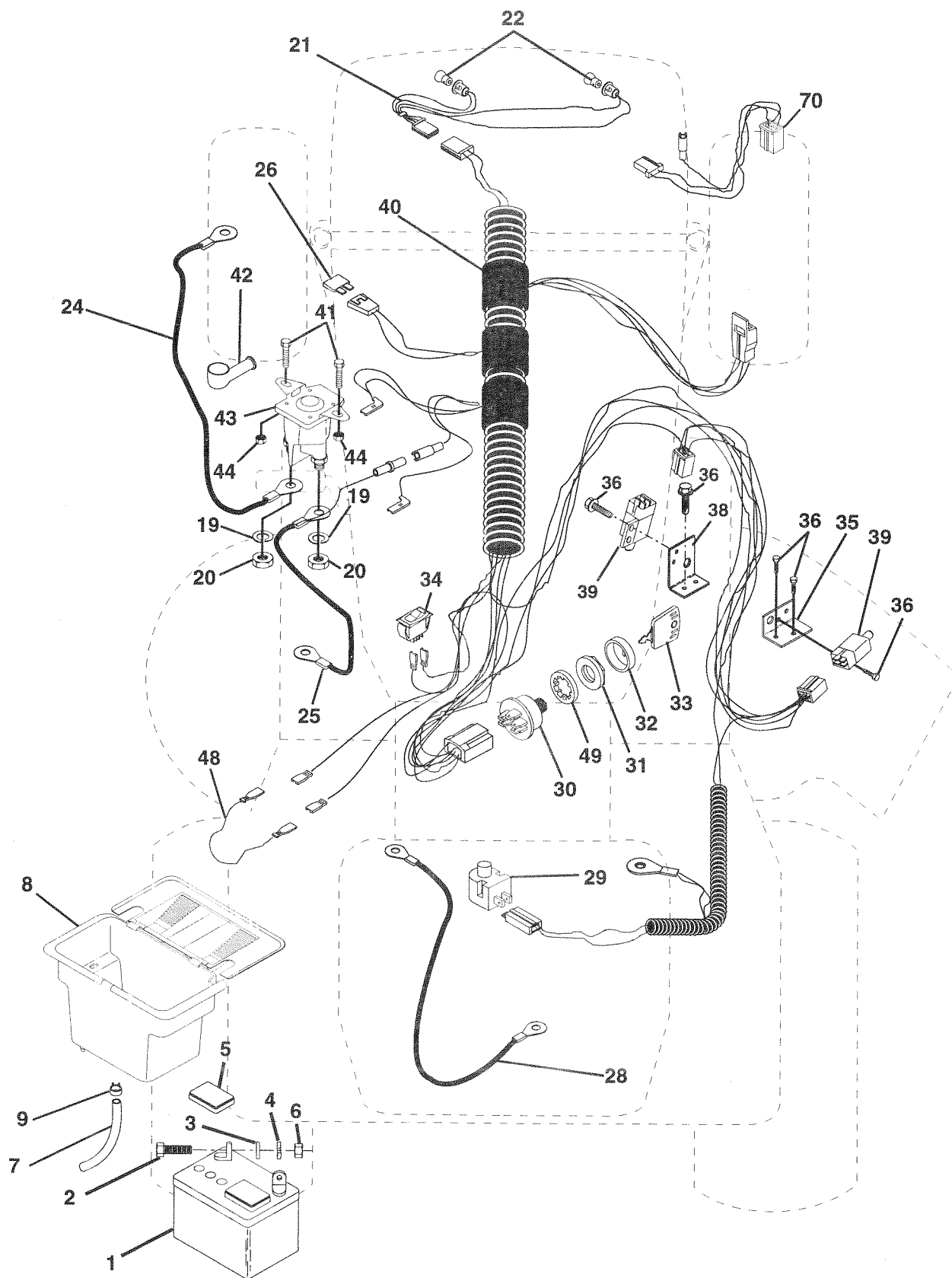
SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

ELECTRICAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

ELECTRICAL

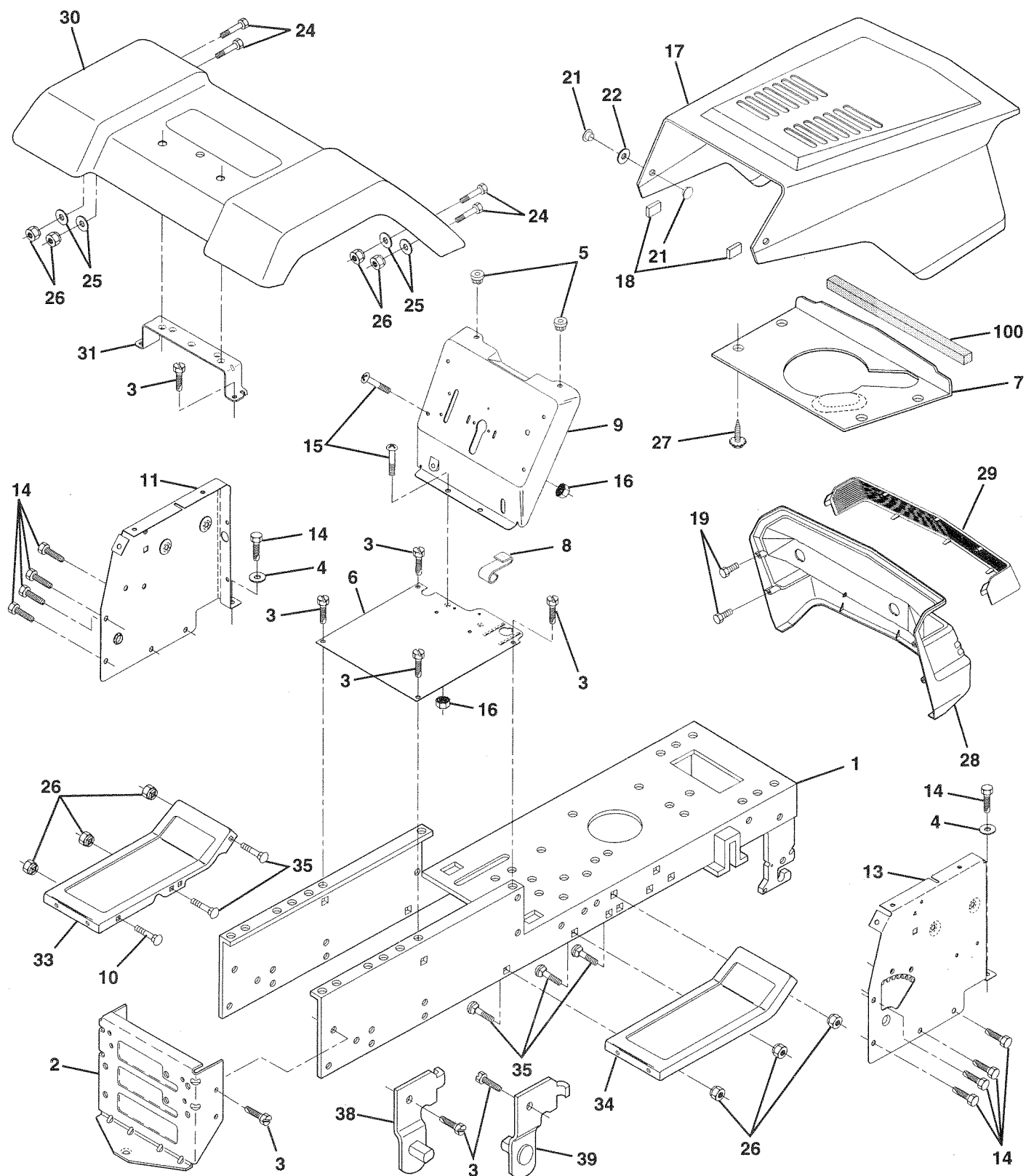
KEY NO.	PART NO.	DESCRIPTION
1	121265X	Battery 12 Volt 25 Amp
2	74760412	Bolt Hex Hd 1/4-20unc X 3/4
3	19091016	Washer 9/32 X 5/8 X 16 Ga
4	10040400	Washer Lock Hvy Helical 1/4
5	121264X	Caps Battery 20/25/30 AMP
6	73220400	Nut Fin Hex 1/4-20 Unc
7	109238X	Tube Plastic 12"
8	144940	Case Battery
9	109596X	Clamp Hose Olive
19	10090400	Washer Lock 1/4
20	73350400	Nut Jam Hex 1/4-20 Unc
21	136850	Harness Asm Light W/4152J
22	4152J	Bulb Light #1156
24	4799J	Cable Battery 6 Ga 11" red
25	132202	Cable Battery 6 Ga 44" red w/16 Wire
26	108824X	Fuse 30 AMP Auto Green
28	4207J	Cable Ground 6 Ga 12" black
29	121305X	Switch Plunger Nc Gray
30	144921	Switch Ign 3
31	140400	Nut Ignition
32	141226	Cover Sw Ignition
33	140403	Key Ign
34	110712X	Switch Light Blk Blk Red
35	108236X	Bracket Switch Clutch
36	17021008	Screw Tap Hex #10-24unc X 1/2
38	140336	Bracket Switch Interlock
39	109553X	Switch Intlk Clutch Gry 4 Term
40	146057	Harness Ign
41	71110408	Bolt Blk Fin Hex 1/4-20 x 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
44	73640400	Nut Keps Hex 1/4-20 Unc
49	11151000	Washer Lock Internal Tooth 5/8
70	140413	Harness Eng B&S/Tec Dual
48	140844	Adapter Ammeter Rectangular

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

CHASSIS AND ENCLOSURES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

CHASSIS AND ENCLOSURES

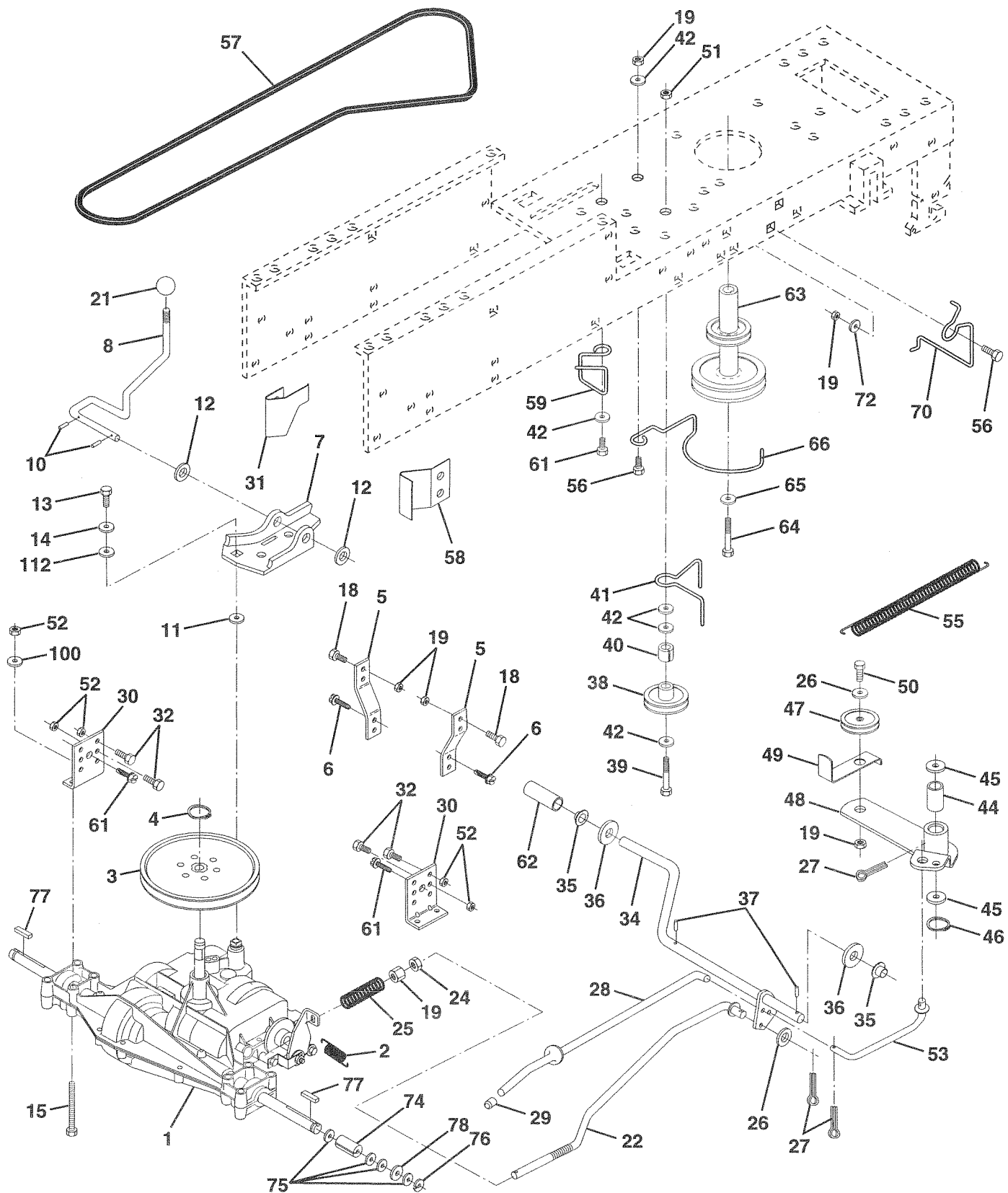
KEY NO.	PART NO.	DESCRIPTION
1	145501	Chassis Weldment 11ga
2	140356	Drawbar Stretch
3	17490612	Screw Thdrol 3/8-16x3/4 Ty-tt
4	19131216	Washer 13/32 x 3/4 x 16 Ga.
5	146077	Bumper Snap In
6	145208x015	Saddle Silkscr 5Spd
7	124027X	Shield Heat Hood Lt
8	126471X	Clip Insulator .406 Mtg Hole
9	146757X013	Dash Silkscreened
10	72140608	Bolt Carriage 3/8 - 16 x 1
11	146956	Panel Pnt Dash Lh
13	146961X012	Panel Dash Rh
14	17490608	Screw Thdrol 3/8-16x1/2 Ty-tt
15	74180512	Screw Mach Trhd 5/16-18uncx3/4
16	STD541431	Nut
17	131445X417	Hood Asm Pnt Weld Sil Powder
18	126938X	Bumper Hood
19	17521312	Screw
21	122933X	Rivet Ratchet Nylon
22	124479X	Washer Nylon Blk 28x 75x 19
24	STD523710	Bolt
25	19131312	Washer 13/32 X 13/16 X 12 Ga
26	STD541437	Nut
27	17030814	Screw Lock Spider #8 x 7/8
28	140135	Grille Grey
29	124029X	Lens Headlight Bar Clear
30	109872X417	Fender Pnt
31	136619	Bracket Pnt Fender
33	145244X417	Footrest Pnt Lh Perf (silver)
34	145243X417	Footrest Pnt Rh Perf (silver)
35	STD533707	Bolt
38	139886	Bracket, Asm Pivot, L.H., Mower, Rear
39	139887	Bracket, Asm Pivot, R.H., Mower, Rear
100	105037X	Strip Foam 18"
--	5479J	Plug Button Blk 359 Dia

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

DRIVE

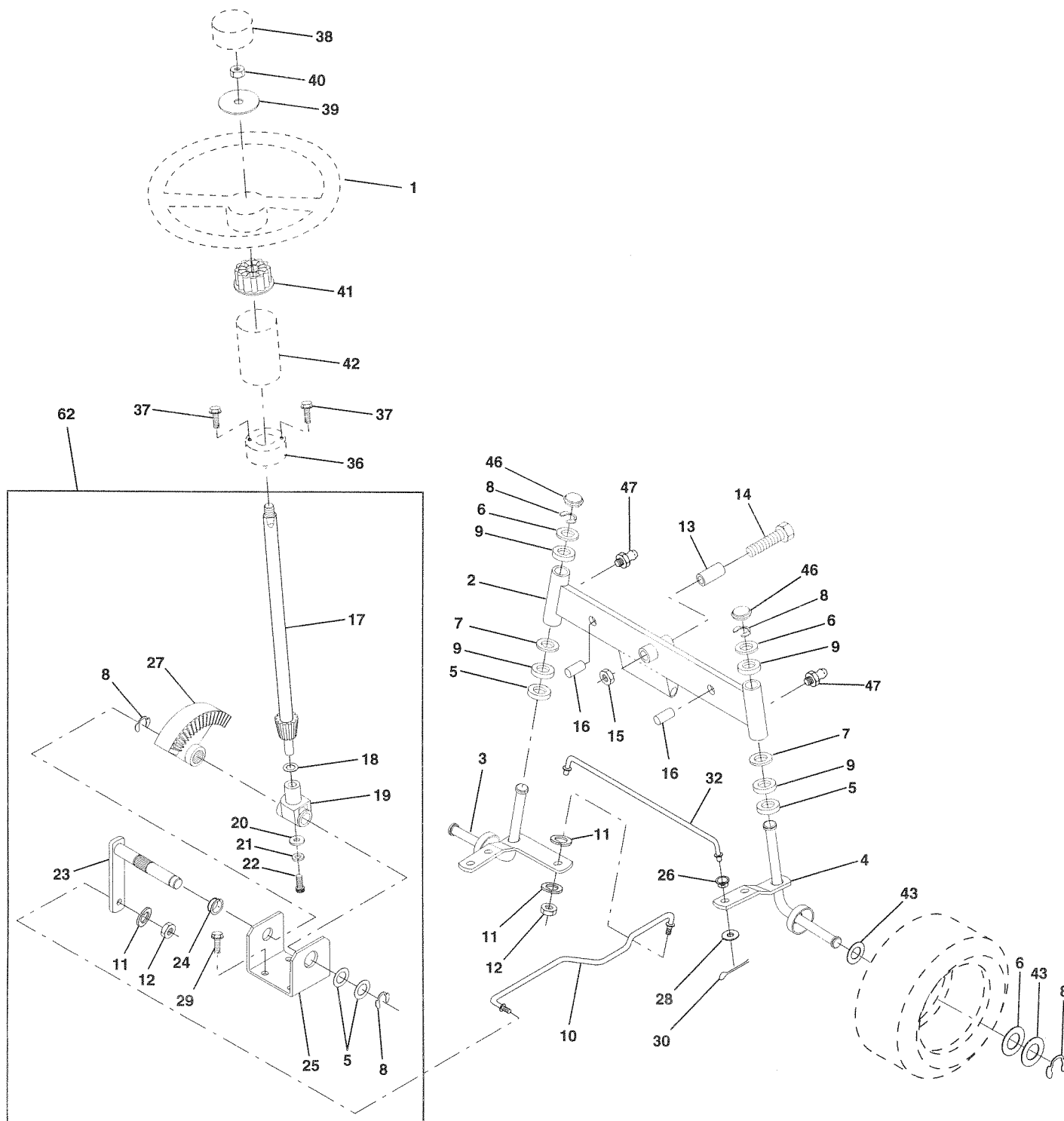
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	142602	Transaxle 5sp Model No. 4360-78	42	19131312	Washer 13/32 X 13/16 X 12 Ga
2	146682	Spring Extension Brake	44	105706X	Bearing Nyl 503 X 628 X 1 25
3	123666X	Pulley Transaxle 18" tires	45	110812X	Washer Hardened
4	12000028	Ring Retainer # 5100-62	46	12000039	Ring Klip #t5304-50
5	121520X	Strap Torque Rh Pnt Blk	47	127783	Pulley Idler V Groove Plastic
6	17490512	Screw Thdrol 5/16-18 X 3/4 Tyt	48	123789X	Bellcrank Asm
7	130802	Plate Pnt Rod Shift T/a (blk)	49	123205X	Retainer Belt Style Spring
8	131679	Rod Shifter Black(dana)	50	STD523715	Bolt
10	STD561210	Pin	51	STD541437	Nut
11	105701X	Washer Plate Shf 388 Sq H	52	STD541431	Nut
13	74550412	Bolt 1/4-28 Unf Gr. 8 w/Patch	53	105710X	Link Clutch 7 66
12	19151216	Washer 15/32 X 3/4 X 16ga	55	105709X	Spring Return Clutch 6 75
14	STD551125	Washer	56	STD523712	Bolt Hex 3/8-16 x 1-1/4
15	74780544	Bolt	57	130801	V-belt Ground Drive 95 25
18	STD523710	Bolt	58	127274X	Keeper Belt Rh Lt Pnt/zinc 16g
19	STD541437	Nut	59	140312	Keeper Belt Chassis Span Ctr.
21	106933X	Knob Rd 1/2-13 Plstc Thds Blk	61	17490612	Screw Thdrol 3/8-16x3/4 Ty-tt
22	130804	Rod Brake Lt	62	8883R	Cover Pedal Blk Round
24	STD541237	Nut	63	140186	Pulley Engine
25	106888X	Spring Rod Brake 2 00 Zinc	64	71170764	Bolt, Hex 7/16-20 x 4 Grade 5
26	STD551037	Washer	65	10040700	Washer, Lock, Heavy Helical Spring 7/16
27	STD561210	Pin	66	129921	Keeper Belt Engine Lh Lt
28	145204	Rod Brake Parking Lt/YT	70	134683	Guide Belt Dr Mower Rh
29	124236X	Cap Parking Brake Red	72	19132012	Washer 13/32 X 1-1/4 X 12 Ga
30	130807	Bracket Transmission	74	109502X	Spacer Split 80 X 94
31	127275X	Keeper Belt Lh Lt 14 Ga	75	121749X	Washer 25/32 X 1 1/4 X 16 Ga
32	STD523107	Bolt	76	STD581075	E Ring
34	149001	Shaft Asm Pedal Foot	77	123583X	Key Square 2 0 X 1845/ 1865
35	120183X	Bearing Nylon Blk 629 Id	78	121748X	Washer 25/32 X 1 5/8 X 16ga
36	STD551062	Washer	100	19111216	Washer 11/32 x 3/4 x 16 Ga.
37	STD571810	Roll Pin	112	19091210	Washer 9/32 X 3/4 X 10 Ga
38	123674X	Pulley Idler Flat			
39	STD523727	Bolt			
40	4470J	Spacer Split 395 X 59 Bzp			
41	109070X	Keeper Belt Retainer			

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

STEERING ASSEMBLY



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

STEERING ASSEMBLY

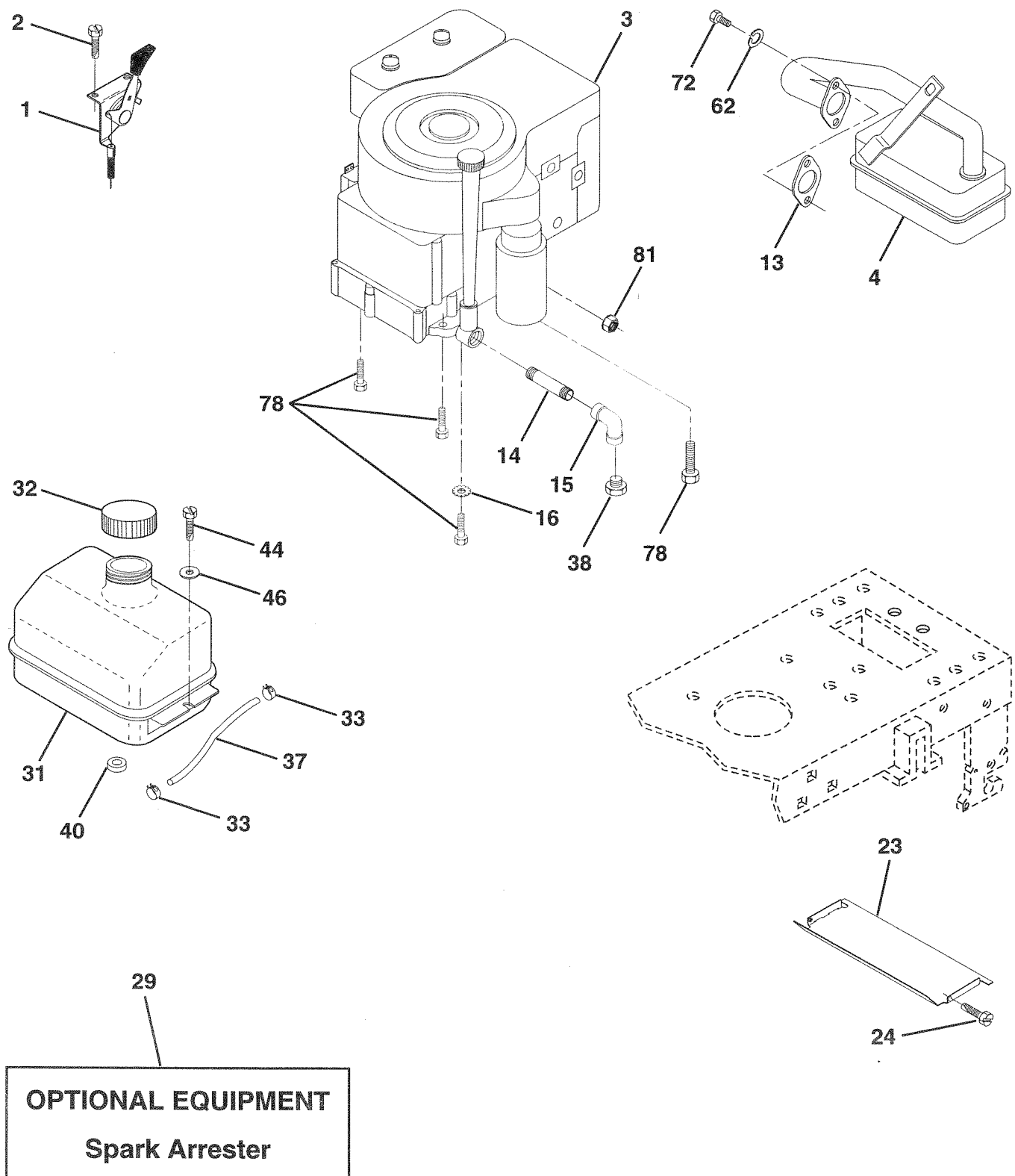
KEY NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering
2	142033	Axle Asm Front
3	135227	Spindle Asm Lh
4	135228	Spindle Asm Rh
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 X 1 5/8 X 16ga
7	19272016	Washer 27/32 X 1 1/4 X 16 Ga
8	12000029	Ring Klip #t5304-75
9	3366R	Bearing Col Strg Blk
10	130468	Link Drag Sol Ball Jt 20 064
11	STD551137	Lockwasher
12	73610600	Nut Fin Hex 3/8-24 Unf
13	110438X	Spacer Bearing Axle Front
14	74011056	Bolt Hex 5/8-11 Unc X 3-1/2
15	73901000	Locknut, Flange 5/8 - 11 UNC
16	132624	Pin Axle 5/8 X 1 55/1 54 Lg
17	132614	Shaft Asm Strg 5/8 X 15 19 Lt
18	57079	Washer Thrust 515x 750x 033
19	124035X	Support Shaft
20	126684X	Washer Shim 1/4 X 5/8 X .062
21	STD551125	Washer
22	71070410	Screw Hex Socket 1/4-20 X 5/8
23	127501	Shaft Asm Pittman
24	109816X	Nyliner Snap In
25	124036X	Bracket Steering
26	126847X	Bushing Link, Drag, Blk, Lr
27	136874	Gear Sector
28	19131416	Washer 13/32 X 7/8 X 16ga
29	17490612	Screw Thdrol 3/8-16x3/4 Ty-tt
30	STD561210	Pin
32	130465	Rod Tie Wire Form 19 75 Mech
36	132196	Bushing Strg 5/8 Id Dash
37	STD611005	Screw
38	139769	Insert Cap Strg Wheel AYP/Kelch Blk
39	19133808	Washer 13/32 X 2-3/8 X 8 Ga
40	STD541537	Gripco Nut
41	104820X	Adaptor Wheel Strg 640/ 635id
42	124417X	Boot Shaft Steering
43	121749X	Washer 25/32 X 1 1/4 X 16 Ga
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
62	149684	Kit Steering Assembly

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

ENGINE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

ENGINE

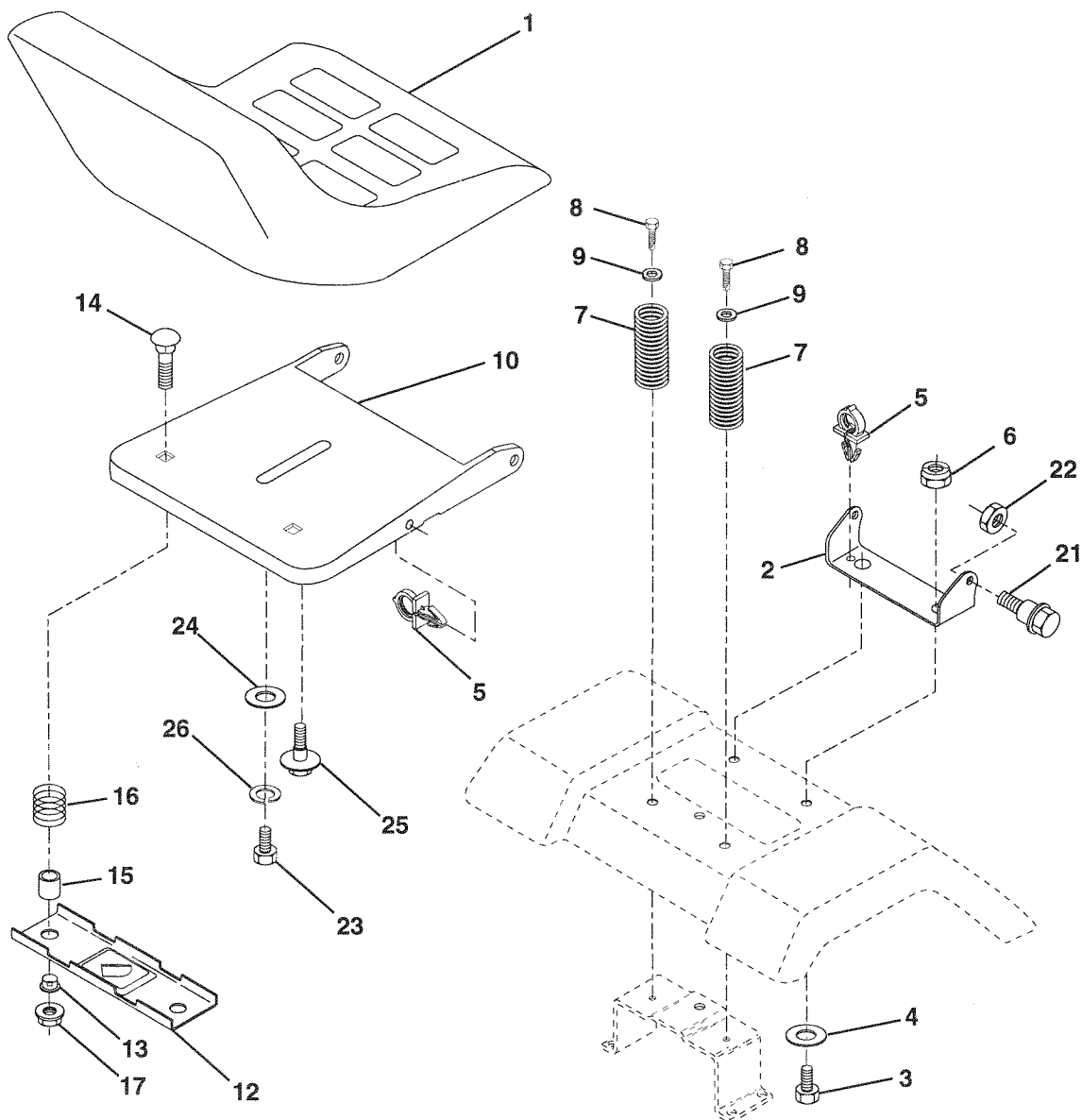
KEY NO.	PART NO.	DESCRIPTION
1	132759	Control Throt Rh Blk Pdl 15 10
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	145300	Engine B&S 12.5 Hp IC Dual 1V Model No. 289707 Type No. 0168-01
4	137348	Muffler Lt B&S 12/12.5 Hp
13	272293	Gasket 1 313 Id Tin Plate
14	13280324	Nipple Pipe 3/8 Npt X 3"
15	13200300	Elbow Std 90 Degree 3/8-18 Npt
16	STD551237	Washer
23	128953X	Shield Pnt Heat Browning Grass
24	STD601005	Screw
27	-----	Scre, self-tapping #10-24 x 1/2 Type TT-B (Order From Engine Manufacturer)
29	137180	Arrestor Spark
31	109202X	Tank Fuel 1 25 Fr
32	123549X	Cap Asm Fuel W/sym Vented
33	123487X	Clamp Hose Blk
37	137040	Line Fuel 20"
38	-----	Plug Oil Drain (Order From Engine Manufacturer)
40	124028X	Bushing Snap Nyl Blk Fuel Line
44	17490412	Screw Hexwsh Thdrol 1/4-20x3/4
46	19091416	Washer 9/32 X 7/8 X 16ga
62	STD551131	Lockwasher
72	71070512	Screw Hexhd Cap 5/16-18x3/4
78	17490620	Screw Thdrol 3/8-16x1-1/4 Tytt
81	128861	Nut Keps Hex 1/4-20 Starter Nut

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	127437	Seat V350 Blk/red Craftsman
2	140551	Bracket Pnt Pivot Seat
3	STD523710	Bolt
4	19131610	Washer 13/32 X 1 X 10 Ga
5	145006	Clip Push-In
6	STD541437	Nut
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	140552	Pan Pnt Seat (blk)
12	121246X	Bracket Pnt Mounting Switch
13	121248X	Bushing Snap Blk Nyl 50 Id

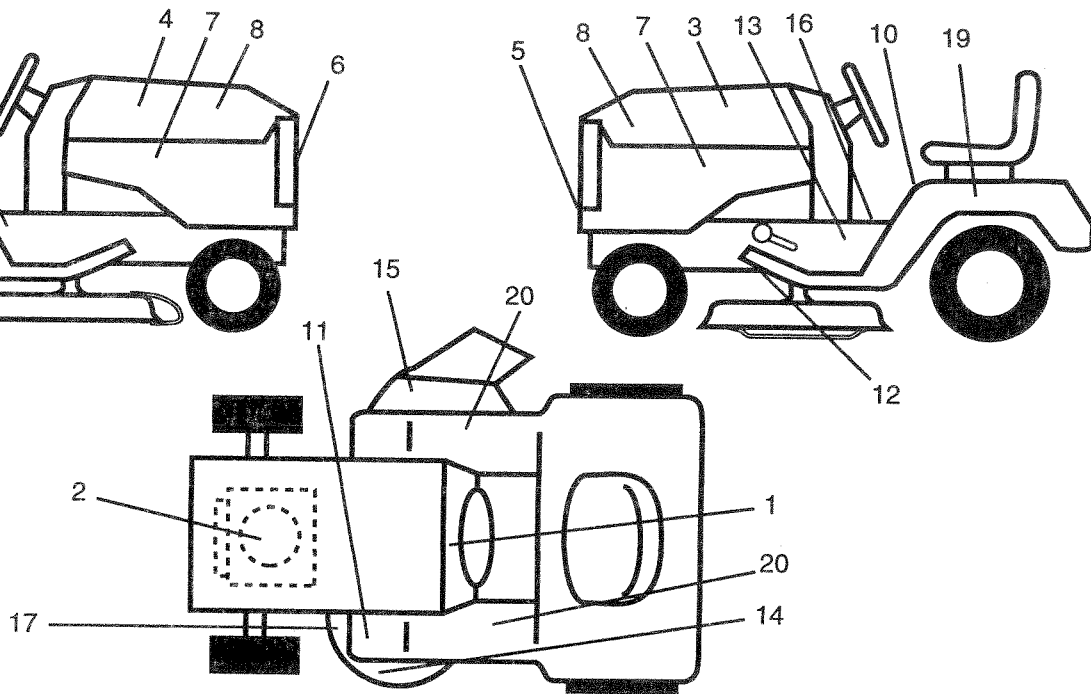
KEY NO.	PART NO.	DESCRIPTION
14	72050411	Bolt Rdhd Sht Nk 1/4-20x1-3/8
15	134300	Spacer Split 28 X 96 Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
21	139888	Bolt Shoulder 5/16-18 Unc Blkz
22	STD541431	Nut
23	74780814	Bolt Fin Hex 1/2-13 X 7/8 Gr 5
24	19171912	Washer 17/32 X 1-3/16 X 12 Ga
25	127018X	Bolt Shoulder 5/16-18 X 62
26	STD551150	Lockwasher

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

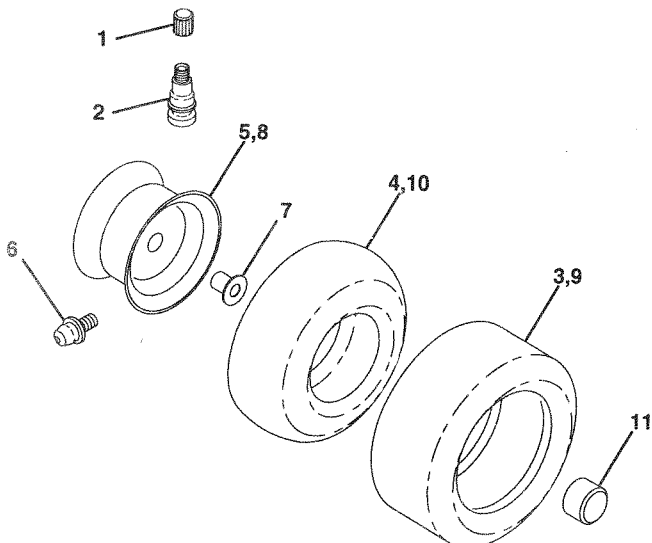
DECALS



KEY NO.	PART NO.	DESCRIPTION
1	138956	Decal Oper Instruction Eng/fr
2	272936	Decal Eng 12.5 Hp B&S IC Crafts
3	140561	Decal Hood Slope Lh Craftsman
4	140560	Decal Hood Slope Rh Craftsman
5	128261	Decal Grille Lt4000 Craftsman
6	131265	Decal Lightbox Grille
7	142249	Decal Panel Side l/c B&S Blk
8	142252	Decal Ins. Hood 12.5 Hp Black
9	125880X	Decal Fender Craftsman Red
10	133795	Decal Caution English/french
11	101892X	Decal Clutch/brake Eng/fr

KEY NO.	PART NO.	DESCRIPTION
12	146832	Decal V-belt Dr Sch Tractor E
13	105809X	Decal Chassis 5sp 38"
14	133179	Decal Mower QC System
15	137259	Decal Warning Multi-Language
16	140837	Decal Brake Parking Saddle
17	136832	Decal V-Belt Drive Sch.
19	121549X	Decal Battery Caution
20	145245	Pad Footrest Rbr Sq Craftsman
--	138311	Decal Handle Lft Height Adj (Lift Handle)
--	150251	Manual Owner's English
--	150252	Manual Owner's French

WHEELS & TIRES



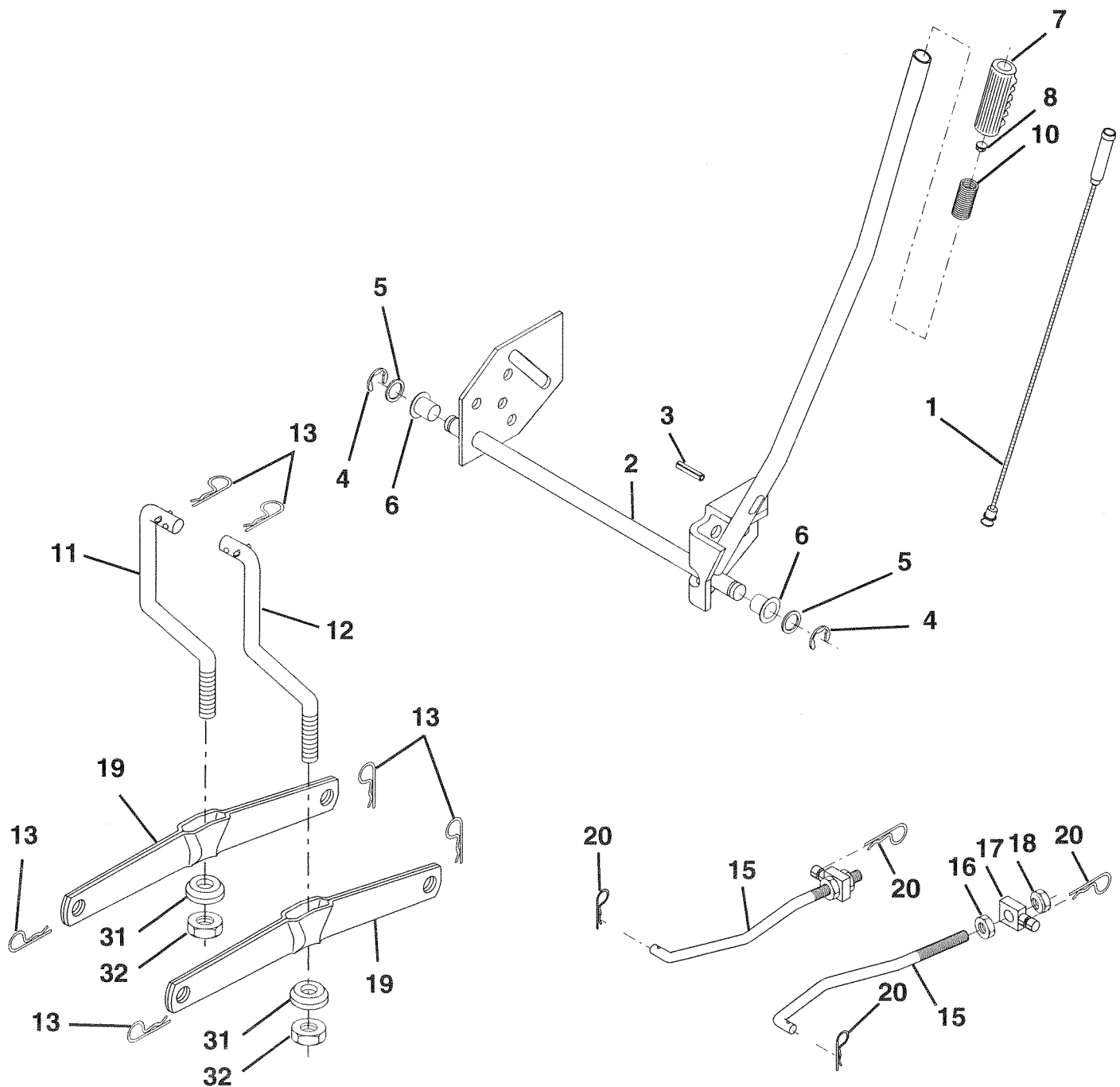
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Front (Service Item Only)
5	106732X417	Rim Asm 6" front Silver Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel Only)
8	106108X417	Rim Asm 8" rear Silver Service
9	124635X	Tire R Ts 18x8 5-8 S Service
10	7152J	Tube Rear (Service Item Only)
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 944.605021

LIFT LEVER



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

LIFT LEVER

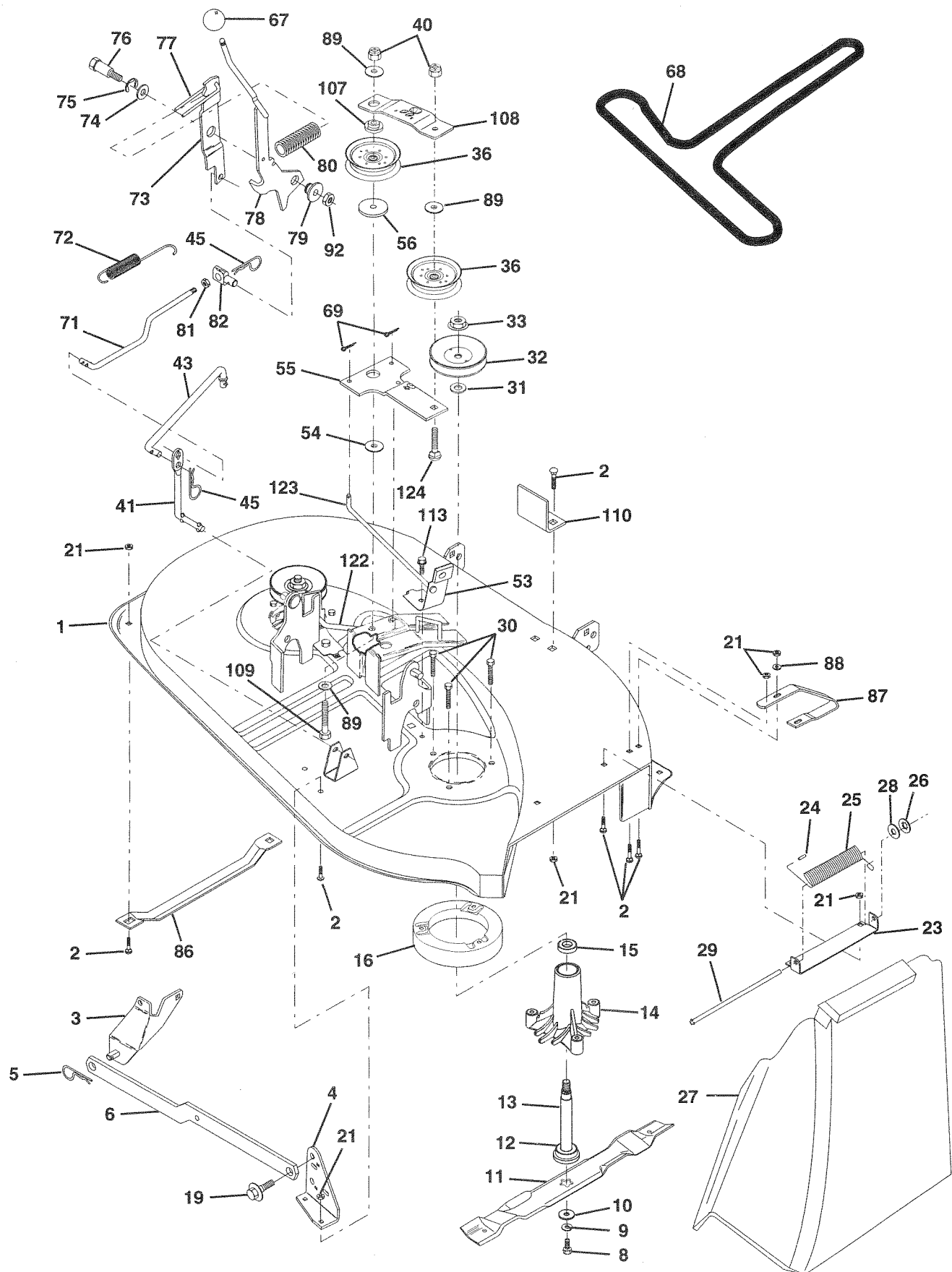
KEY NO.	PART NO.	DESCRIPTION
1	136973	Wire Asm Inner w/Plunger
2	122507X	Shaft Asm Lift
3	105767X	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylon
7	125631X	Grip Handle Fluted
8	122365X	Button Plunger Red
10	122512X	Spring Cprsn
11	139865	Link Lift Lh
12	139866	Link Lift Rh
13	4939M	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2 - 13 Unc
17	130171	Trunnion Blk Zinc
18	73800800	Nut Lock w/Wsh 1/2 - 13 Unc
19	139868	Arm Suspension Rear
20	3146R	Retainer Spring
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut, Crownlock 3/8-24

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 944.605021

MOWER



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

MOWER

KEY NO.	PART NO.	DESCRIPTION
1	142829	Mower Asm 38" welded
2	72140506	Bolt Rdhd Sqnk 5/16-18unc X3/4
3	138017	Bracket assembly, front
4	138440	Bracket assembly, decl
5	4939M	Retaining spring
6	130832	Arm, suspension rear
8	850857	Bolt 3/8-24x1 25 Gr8 Patched
9	10030600	Washer Lock Hvy 3/8 Unplated
10	140296	Washer Hard Blade Mower Vented
11	134148	Blade Mulching 38"
12	129895	Bearing Ball #6204 (Mandrel)
13	137645	Shaft Asm W/lower Bearing
14	128774	Housing Mandrel Vented (machd)
15	110485X	Bearing Ball Mandrel
16	140329	Stripper MWR
19	132827	Bolt Shoulder
21	73680500	Nut Crownlock 5/16-18 Unc
23	137607	Bracket Deflector Mower
24	105304X	Cap Sleeve 80x 112 Blk Mower
25	123713X	Spring Deflector
26	110452X	Nut Push Phos & Oil
27	106736X	Shield Deflector Mower 38"blk
28	19111016	Washer 11/32 X 5/8 X 16 Ga
29	106735X	Rod Hinge Brt/blk Zinc 9 88 Lg
30	138776	Screw Thdrol Hex Head Zinc Mwr
31	129963	Washer Spacer Mower Vented
32	129206	Pulley Mandrel 38" Single
33	137266	Nut 9/16top Lock Fing Cntr
36	131494	Pulley Idler Flat 3 060
40	73680600	Nut Crownlock 3/8-16 Unc
41	133551	Rod Pivot W/nibs
43	133504	Rod Clutch Secondary W/nibs
45	4497H	Spring Retainer 1" Zinc/cad
53	130840	Brake Asm Mower Vented
54	133943	Washer Hardened
55	133840	Arm Idler 38"

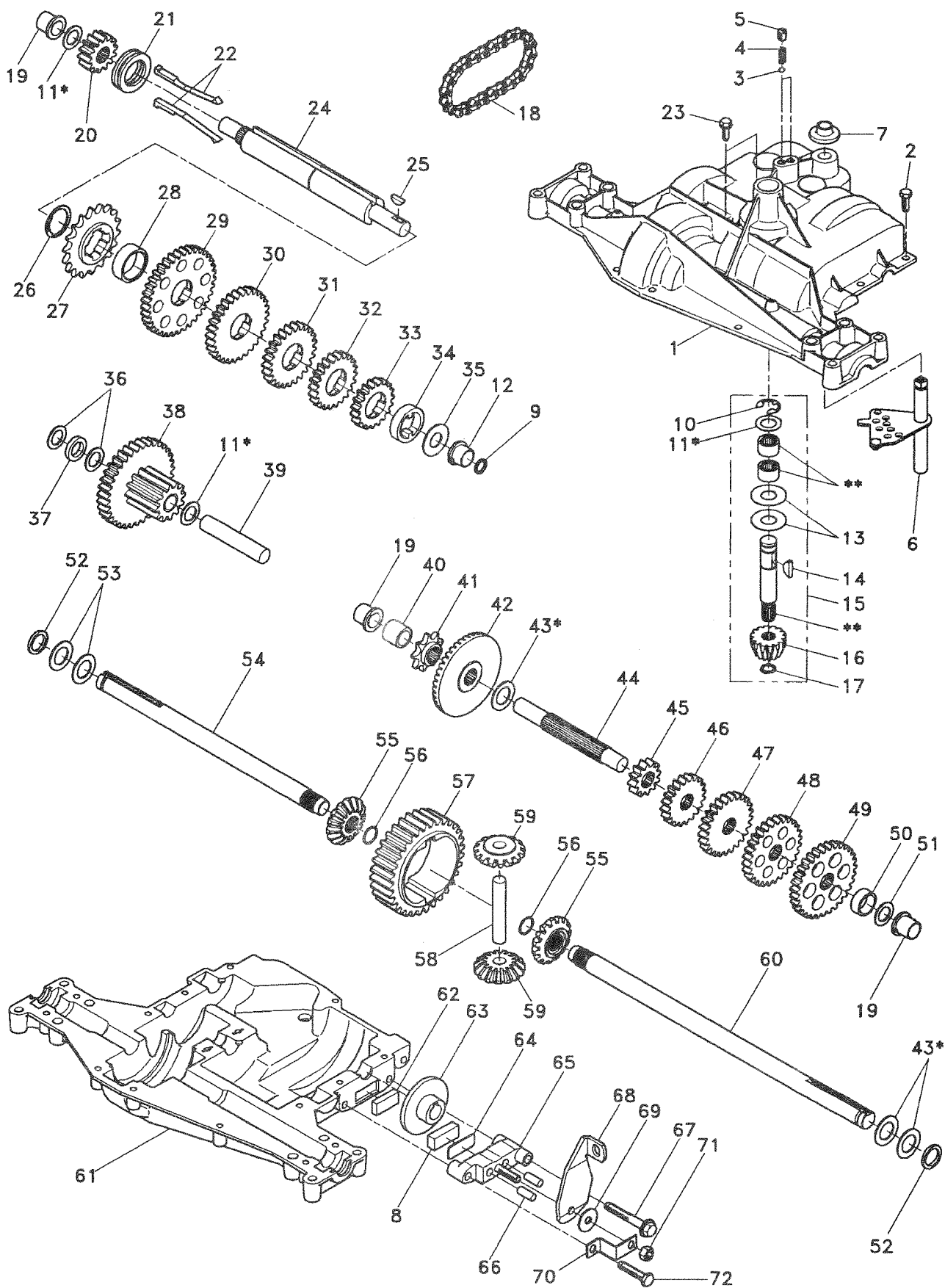
KEY NO.	PART NO.	DESCRIPTION
56	122052X	Spacer Retainer Pm Mower
67	106932X	Knob Rd 3/8-16 Plstc Thds Blk
68	144200	V-Belt Mower "
69	76020312	Pin Cotter 3/32 X 3/4 Cad
71	142427	Rod Clutch Primary 38/42
72	131870	Spring Return
73	127847	Arm Clutch Secondary
74	121748X	Washer 25/32 X 1-5/8 X 16 Ga
75	12000029	Ring Klip #t5304-75
76	128903	Bolt Shoulder 3/8-16 Unc 1 44
77	127845	Keeper Spring 4 000
78	140334	Arm Asm Clutch Primary
79	127498	Bushing 747 Od X 794 Lg Brass
80	128759	Spring Clutch Mower 2 750 Zinc
81	73350600	Nut Hex Jam 3/8-16
82	142028	Trunnion Adj '94
86	7631J	Runner Mower LH 10 00
87	128772	Runner RH 38"
88	19111216	Washer 11/32 X 3/4 X 16 Ga
89	19131612	Washer 13/32 X 1 X 12 Ga
92	73800600	Nut Lock Hex W/Ins. 3/8-16 UNC
107	133502	Spacer Arm Idler Upper Hdn 42"
108	133503	Stiffener Arm Idler Upper 42"
109	74760640	Bolt Hex Fin 3/8-16 x 2-1/2
110	142587	Upstop Deck front
113	17490512	Screw Thdrol 5/16-18 X 3/4 TYT
122	131289	Rod Brake Mandrel LH 4 856
123	131288	Rod Brake Mandrel RH 10 744
124	72110614	Bolt Rdhd 3/8-16uncx1-3/4 Gr5
--	130794	Mandrel Asm Service (Includes Key Nos. 12-15, 8-10, 31 and 33)
--	142820	Deck Serv 38"mech Vent Eng/FR

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

DANA TRANSAXLE - MODEL NUMBER 4360-78



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

DANA TRANSAXLE - MODEL NUMBER 4360-78

KEY PART NO. NO.	DESCRIPTION
1 142671	Housing, Upper
2 2274J	Screw, Self-Tapping, Large 1/4-20 x .734
3 134400	Ball, Detent
4 105904X	Spring, Detent
5 105905X	Screw, Set
6 138235	Kit, Shifter Assembly
7 134399	Boot, Shifter
8 120951X	Puck, Friction
9 143045	Seal, Oil
10 142672	Ring, Retaining
11 134793	* Assembly, Kit, Shim .625 Shaft
12 143051	Bearing, Flange
13 120415X	Washer, Plain .632 x 1.38 x .046
14 142674	Key, Woodruff, #9
15 138234	Assembly, Kit, Input Shaft
16 110078X	Pinion, Bevel, 14 Teeth
17 105909X	Ring, Retaining
18 105910X	Chain, 24 Pitches
19 105911X	Bearing, Flange
20 142675	Gear, Spur, 14 Teeth
21 138246	Collar, Clutch
22 138236	Assembly, Kit, Clutch Keys
23 134791	Screw, Tapping w/Sealer
24 142676	Shaft, Intermediate
25 2244J	Key, Woodruff, #61
26 105916X	Ring, Retaining
27 120470X	Sprocket, 18 Teeth (Reverse)
28 110070X	Spacer
29 142677	Gear, Spur, 37 Teeth (1*)
30 120405X	Gear, Spur, 30 Teeth (2*)
31 108980X	Gear, Spur, 25 Teeth (3*)
32 120406X	Gear, Spur, 22 Teeth (4*)
33 134796	Gear, Spur, 19 Teeth (5*)
34 134797	Spacer 1.133 x 1.50 x .375
35 105925X	Washer, Plain .640 x 1.37 x .061
36 2232J	Washer, Plain .632 x 1.00 x .026
37 108978X	Spacer .630 x 1.00 x .169
38 110079X	Assembly, Gear, Combination of 12 Teeth and 35 Teeth
39 124639X	Shaft, Idler
40 120472X	Spacer .635 x .875 x .755

KEY PART NO. NO.	DESCRIPTION
41 105928X	Sprocket, 9 Teeth (Reverse)
42 110084X	Gear, Bevel, 42 Teeth
43 134394	* Assembly, Kit, Shim .750 Shaft
44 120473X	Shaft, Drive
45 142678	Gear, Spur, 12 Teeth (1*)
46 120407X	Gear, Spur, 20 Teeth (2*)
47 106589X	Gear, Spur, 25 Teeth (3*)
48 120408X	Gear, Spur, 28 Teeth (4*)
49 105937X	Gear, Spur, 31 Teeth (5*)
50 105936X	Spacer .781 x 1.00 x .375
51 2226J	Washer, Plain .632 x 1.00 x .060
52 134401	Washer, Neoprene
53 2264J	Washer, Plain .758 x 1.25 x .031
54 120474X	Axle, L.H.
55 110081X	Gear, Miter, 15 Teeth
56 105941X	Ring, Retaining
57 110071X	Gear, Spur, 32 Teeth
58 120952X	Shaft, Cross
59 110082X	Gear, Miter, 15 Teeth
60 120475X	Axle, R.H.
61 142680	Housing, Lower
62 120961X	Puck, Friction
63 7294J	Disc, Brake
64 108989X	Spacer
65 120953X	Jaw, Brake
66 120954X	Pin, Dowel
67 134799	Screw, Self-Tapping, Large 5/16-18 x 2.25
68 138244	Lever, Actuating
69 108996X	Washer, Plain .321 x 1.00 x .055
70 120956X	Bracket, Anti-Rotation
71 73810500	Locknut 5/16-24
72 106596X	Screw, Self-Tapping, Large 5/16-18 x 1.44
73 120416X	Grease

* Use in combinations to maintain proper clearances

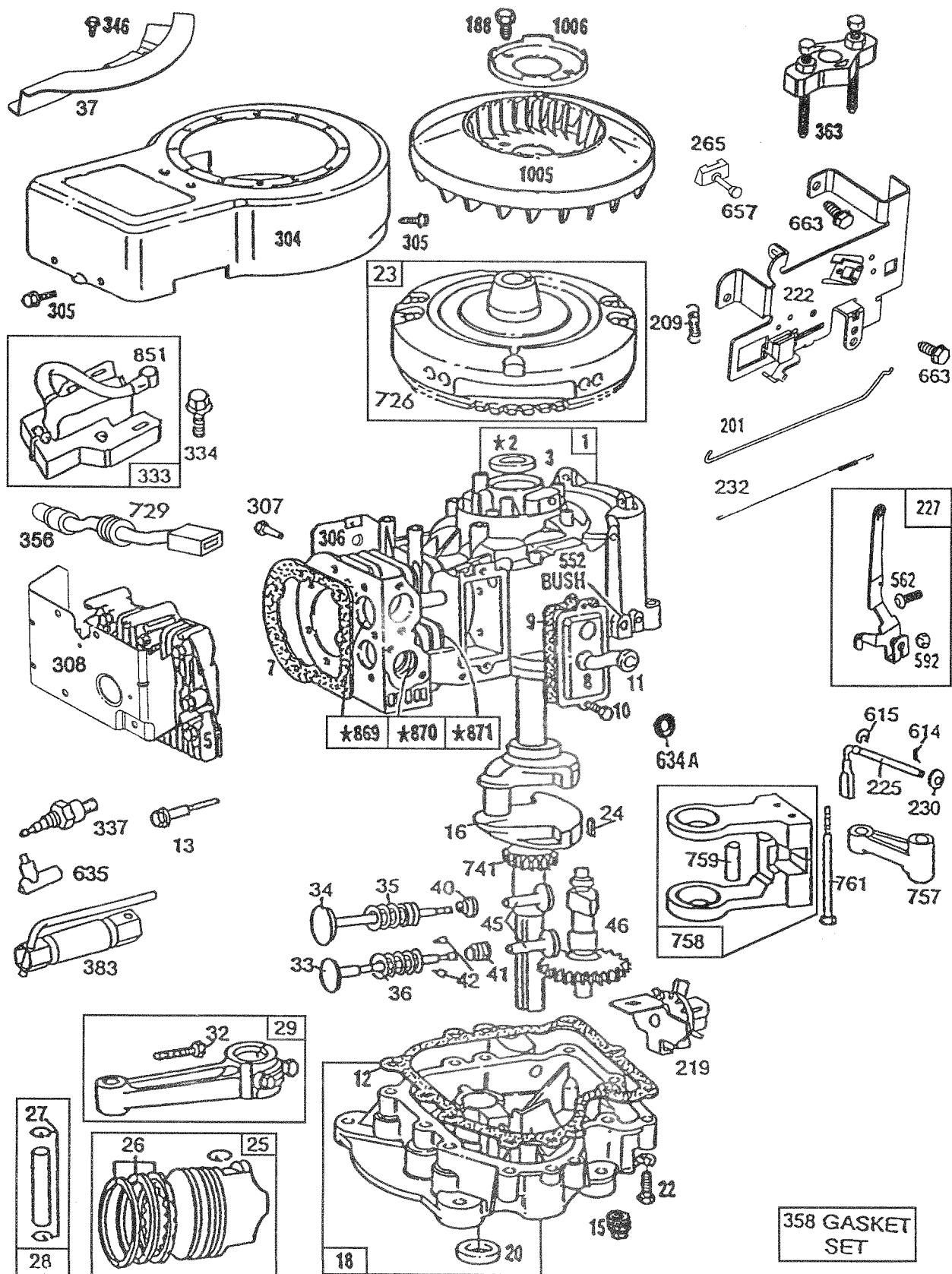
** Order Key No. 15

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

BRIGGS & STRATTON ENGINE - MODEL NUMBER 289707, TYPE NUMBER 0168-01

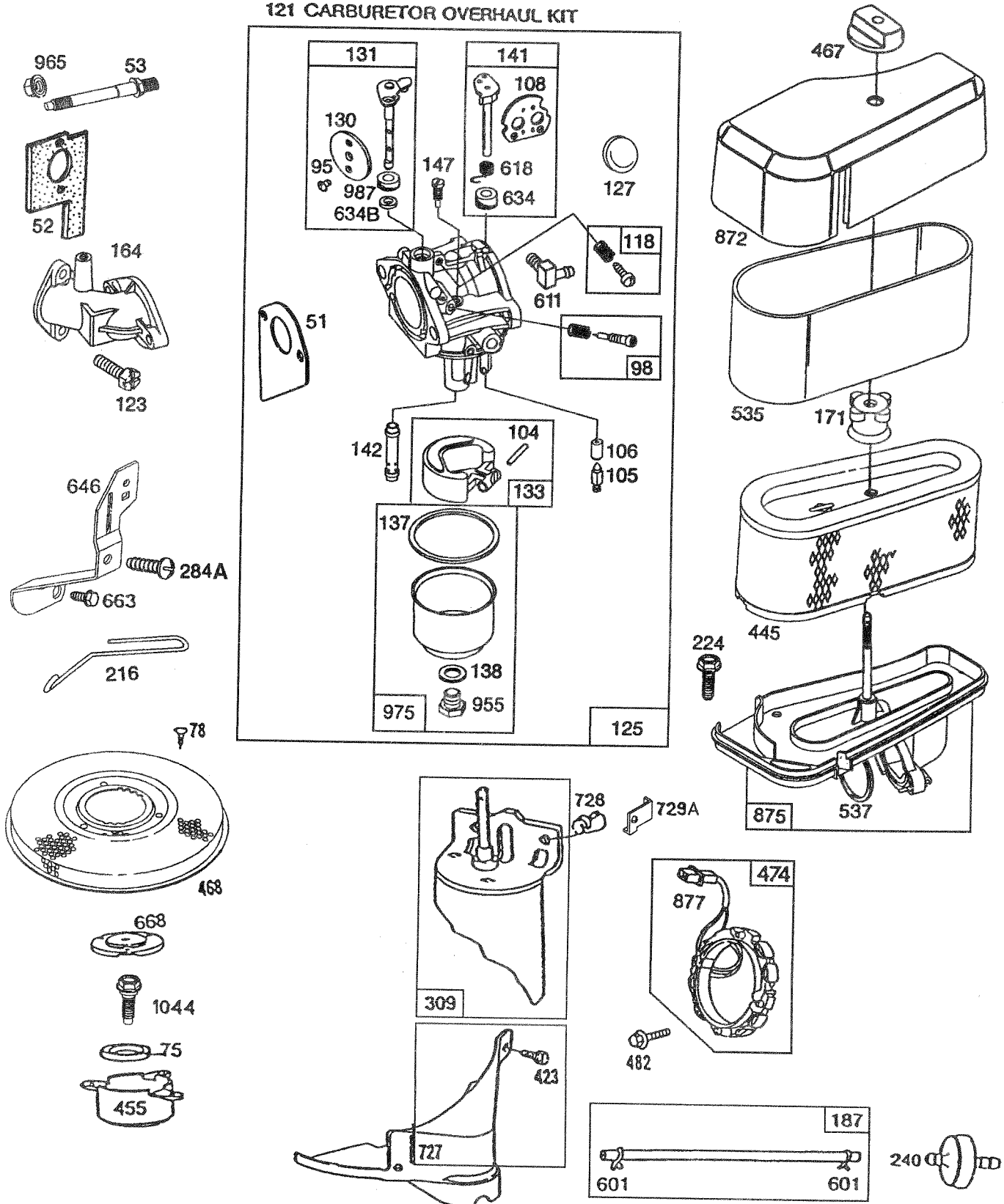


REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

BRIGGS & STRATTON ENGINE - MODEL NUMBER 289707, TYPE NUMBER 0168-01

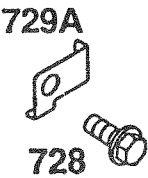
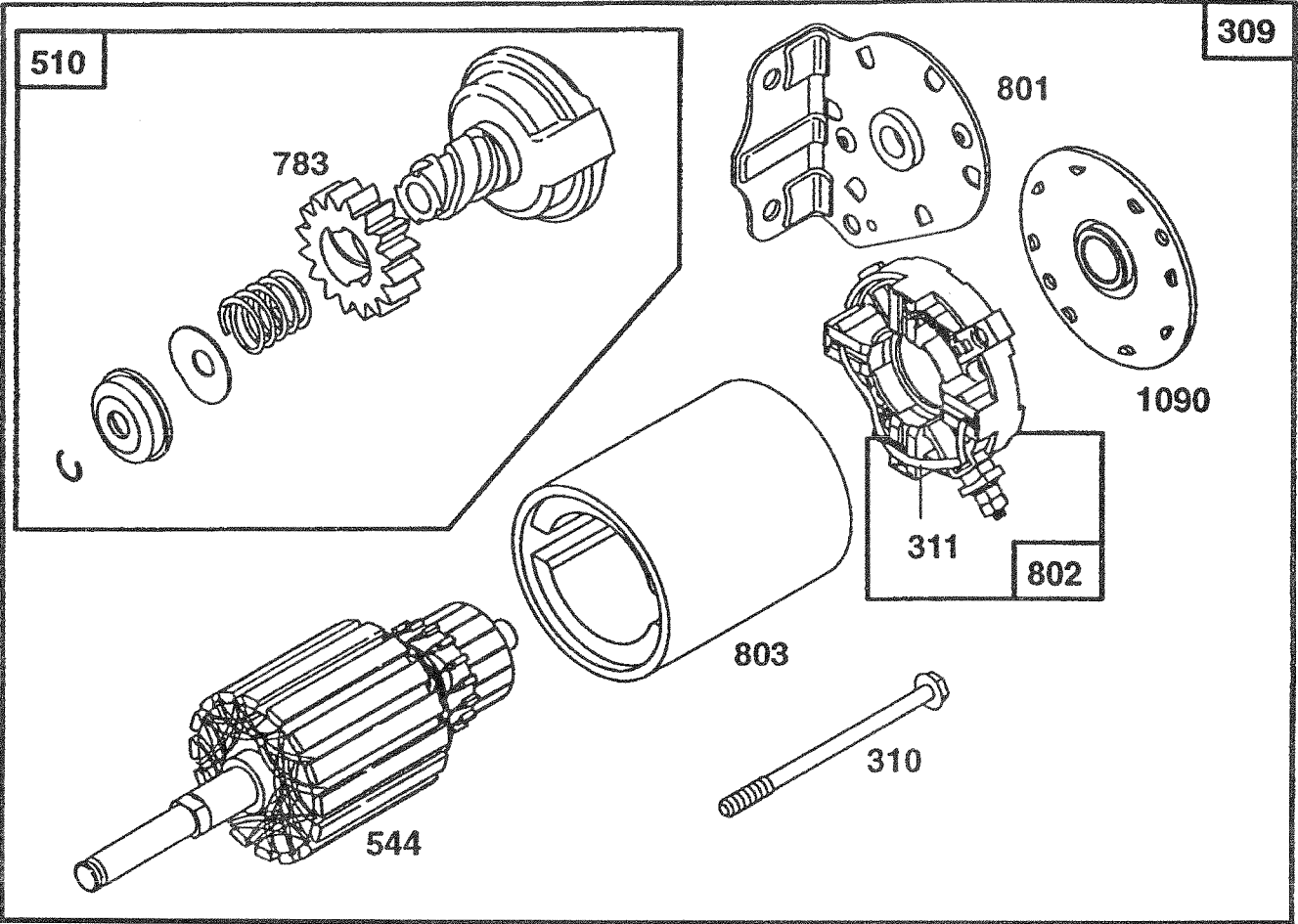
121 CARBURETOR OVERHAUL KIT



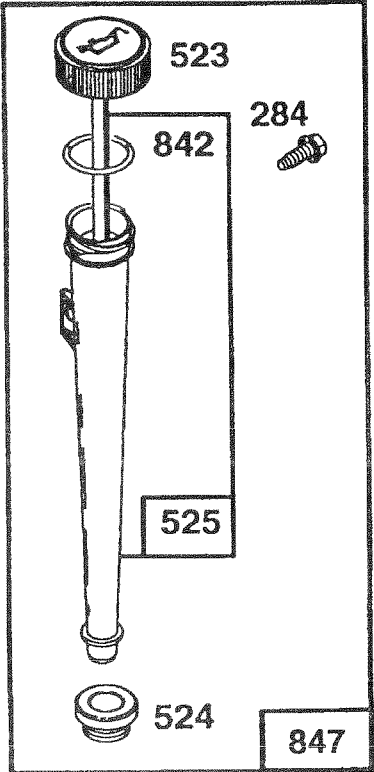
REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

BRIGGS & STRATTON ENGINE - MODEL NUMBER 289707, TYPE NUMBER 0168-01



1058 OWNER'S MANUAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

BRIGGS & STRATTON ENGINE - MODEL NUMBER 289707, TYPE NUMBER 0168-01

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 496413	Cylinder Assembly	52 272554	* Gasket, Carburetor
2 399265	Bearing, Cylinder (Requires Special Tools For Installation)	53 94637	Stud, Carburetor Mounting
3 391086	* Seal, Oil	75 224061	Washer, Spring
5 494240	Head, Cylinder	78 93805	Screw, Sems
7 271866	* Gasket, Cylinder Head	95 94098	** Screw, Throttle
8 391406	Breather Assembly	98 495800	Screw, Idle Speed
9 27803	* Gasket, Valve Cover	104 231789	** Pin, Float Hinge
10 94621	Screw, Sems	105 231855	** Valve Assembly, Inlet Needle
11 280100	Tube, Breather	106 231854	Inlet, Valve Seat
12 271916	* Gasket, Crankcase Cover 1/64"	108 224540	Valve, Choke
271997	* Gasket, Crankcase Cover .005"	118 494383	** Valve, Needle
271996	* Gasket, Crankcase Cover .009"	121 497535	Carburetor Overhaul Kit
13 94622	Screw, Cylinder Head	123 94616	Screw, Elbow Mounting
15 94239	Plug, Oil Drain	125 495706	Carburetor Assembly
16 495162	Crankshaft	127 - - -	** Plug, Welch (Sold in Kit Only)
94196	Key, Timing Gear	130 224539	Valve, Throttle
18 494238	Base, Engine	131 494379	Shaft and Lever, Throttle
20 291675	* Seal, Oil	133 494381	Float, Carburetor
22 94624	Screw, Sems, Base Mounting	137 281165	*** Gasket, Float Bowl
23 492326	Flywheel and Ring Gear Assembly, Magnet	138 281164	*** Washer, Float Bowl Screw
24 222698	Key, Flywheel	141 494380	** Shaft and Lever, Choke
25 394661	Piston Assembly, Standard	142 494537	** Nozzle / Jet, Carburetor
394662	Piston Assembly .010" Oversize	147 497472	** Pilot, Jet
394663	Piston Assembly .020" Oversize	164 213819	Carburetor, Elbow
394664	Piston Assembly .030" Oversize	171 281051	Nut, Air Cleaner Mounting
26 391780	Ring Set, Piston, Standard Size	187 393815	Line, Fuel
392331	Ring Set, Piston, Chrome, Standard	188 93535	Screw, Sems
391781	Ring Set, Piston .010" Oversize	201 262767	Link, Governor
391782	Ring Set, Piston .020" Oversize	209 260871	Spring, Governor
391783	Ring Set, Piston .030" Oversize	216 262766	Link, Choke
27 260924	Lock, Piston Pin	219 490815	Oil Slinger, Governor Gear and Bracket Assembly
28 299691	Pin Assembly, Piston, Standard	222 494887	Plate, Governor Control
391286	Pin Assy., Piston .005" Oversize	224 94513	Screw, Sems, Air Cleaner
29 490348	Rod Assembly, Connecting	225 231058	Crank, Governor
490469	Rod Assembly, Connecting, .020" Undersize Crankpin Bore	227 493935	Lever Assembly, Governor
32 94671	Screw, Connecting Rod	230 94742	Washer, Governor Crank
33 262246	Valve, Exhaust	232 262785	Spring, Governor Link
34 262247	Valve, Intake	240 394358	Filter, Fuel
35 65906	Spring, Intake Valve	265 221535	Clamp, Casing
36 26828	Spring, Exhaust Valve		
37 224502	Guard, Flywheel	*	Included in Gasket Set (494241)
40 221596	Retainer, Intake Valve	**	Included in Carburetor Overhaul Kit (497535)
41 292260	Rotocoil, Exhaust Valve	***	Included in both Carburetor Overhaul Kit (497535) and Carburetor Gasket Set (494385)
42 93630	Retainer, Exhaust Valve Rotocoil		
45 262248	Tappet, Valve		
46 212897	Gear, Cam		
51 272465	*** Gasket, Carburetor (to Elbow)		

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 944.605021

BRIGGS & STRATTON ENGINE - MODEL NUMBER 289707, TYPE NUMBER 0168-01

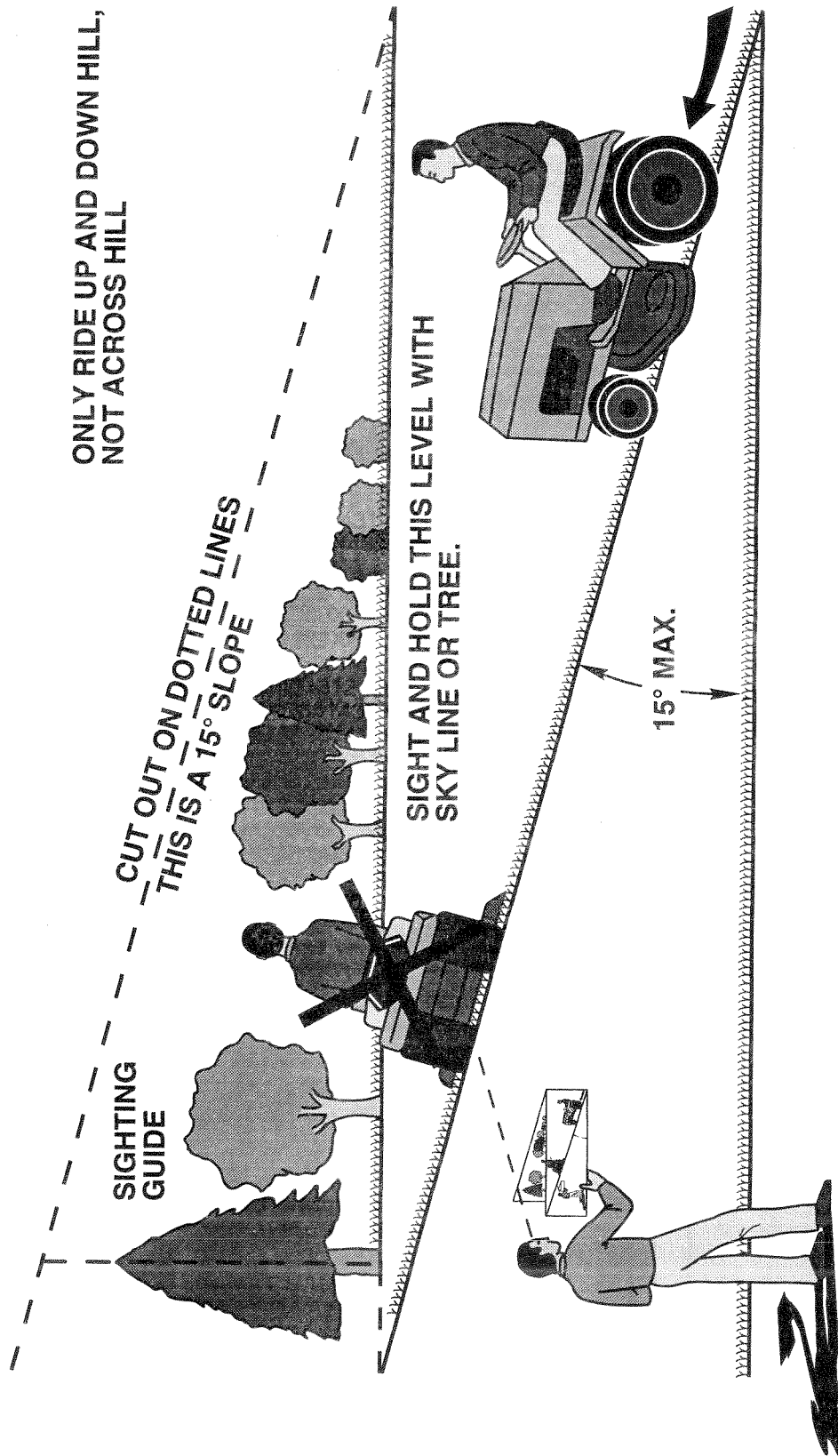
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
284 94073	Screw, Shoulder, Hex Washer Head	726 392134	Gear, Ring (Includes Mounting Parts)
284A 94704	Screw, Hex Head	727 490324	Cover, Starter (Includes Mounting Screws)
304 496319	Housing, Blower	728 94627	Screw, Hex Head
305 94619	Screw, Sems, Blower Housing Mounting	729 281159	Clip, Lead Wire
306 224545	Shield, Cylinder	729A 225170	Retainer Wire
307 94623	Screw, Sems, Cylinder Shield Mounting	741 262135	Gear, Timing
308 491490	Cover, Cylinder Head	757 212359	Link, Counterweight
309 497595	Motor, Starter	758 399891	Counterweight Assembly
310 497602	Bolt, Thru	759 298909	Pin, Counterweight
311 497608	Brush Set	761 93875	Screw, Counterweight
333 492341	Armature, Magneto	783 280104	Gear, Starter
334 93381	Screw, Sems, Armature Mounting	801 394856	Cap, Drive
337 802592	Plug, Spark	802 497605	Cap, End
346 93705	Screw, Hex Head	803 497604	Housing, Starter
356 494328	Wire, Ground	842 270920	Seal, Oil Filler Cap
358 494241	Gasket Set	847 496415	Fill Group, Oil
363 19203	Puller, Flywheel	851 221798	Terminal, Ignition Cable
383 89838	Wrench, Spark Plug	869 261463	Seat, Intake Valve, Standard
423 94073	Screw, Sems	870 213316	Seat, Exhaust Valve, Standard
445 493909	Cartridge, Air Cleaner	871 261961	Guide, Exhaust Valve
455 222561	Cup, Screen Mounting	231218	Guide, Intake Valve
467 493903	Knob, Air Cleaner	872 281104	Cover, Air Cleaner
468 222562	Screen, Flush Rotating	875 494237	Body, Air Cleaner
474 393474	Stator, Alternator	877 393456	Diode and Connector Assembly, Dual Circuit
482 93621	Screw, Sems	955 94642	** Screw, Fuel Bowl
510 497606	Drive, Starter	965 94108	Locknut, Air Cleaner Mounting
523 490327	Cap and Dipstick, Oil Filler	975 494378	Bowl Assembly, Carburetor
524 68838	Seal, Filler Tube	977 494385	Carburetor Gasket Kit
525 496113	Tube, Oil Filler	987 281166	** Seal, Throttle Shaft
535 272403	Element, Air Cleaner	1005 280687	Fan, Flywheel
537 281106	* O-Ring, Air Cleaner	1006 224413	Retainer, Fan
544 497603	Armature, Starter	1019 491255	Label Kit
552 231597	Bushing, Governor Crank	1044 94673	Screw, Hex Head
562 92613	Bolt, Governor Lever	1058 272697	Manual, Owner's
592 231082	Nut, Hex	1090 497607	Retainer, Brush
601 93053	Clamp, Fuel Pipe		
611 494451	Fuel Inlet Tube		RPM Settings: Low Speed: 1550 - 1950 High Speed: 3200 - 3400
614 93306	Cotter, Hair Pin		
615 93307	Retainer, E-Ring		
618 262803	Spring, Choke Return		
634 281168	** Seal, Choke Shaft		* Included in Gasket Set (497535)
634A 491323	* Seal, Governor		** Included in Carburetor Overhaul Kit (495799)
634B 281167	** Washer, Throttle Shaft		*** Included in both Carburetor Overhaul Kit (497535) and Carburetor Gasket Set (494385)
635 66538	Elbow, Spark Plug		
646 224546	Brace, Air Cleaner		
657 93496	Screw, Sems		
663 94620	Screw, Hex Head		
668 280848	Spacer		

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

SERVICE NOTES

SERVICE NOTES

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.
944.605021**

HOW TO ORDER REPAIR PARTS

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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.

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- **MODEL NUMBER - 944.605021**
- **ENGINE MODEL NUMBER - 289707, TYPE NUMBER 0168-01**
- **PART NUMBER**
- **PART DESCRIPTION**

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