

LRH125

Owner's Manual



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.

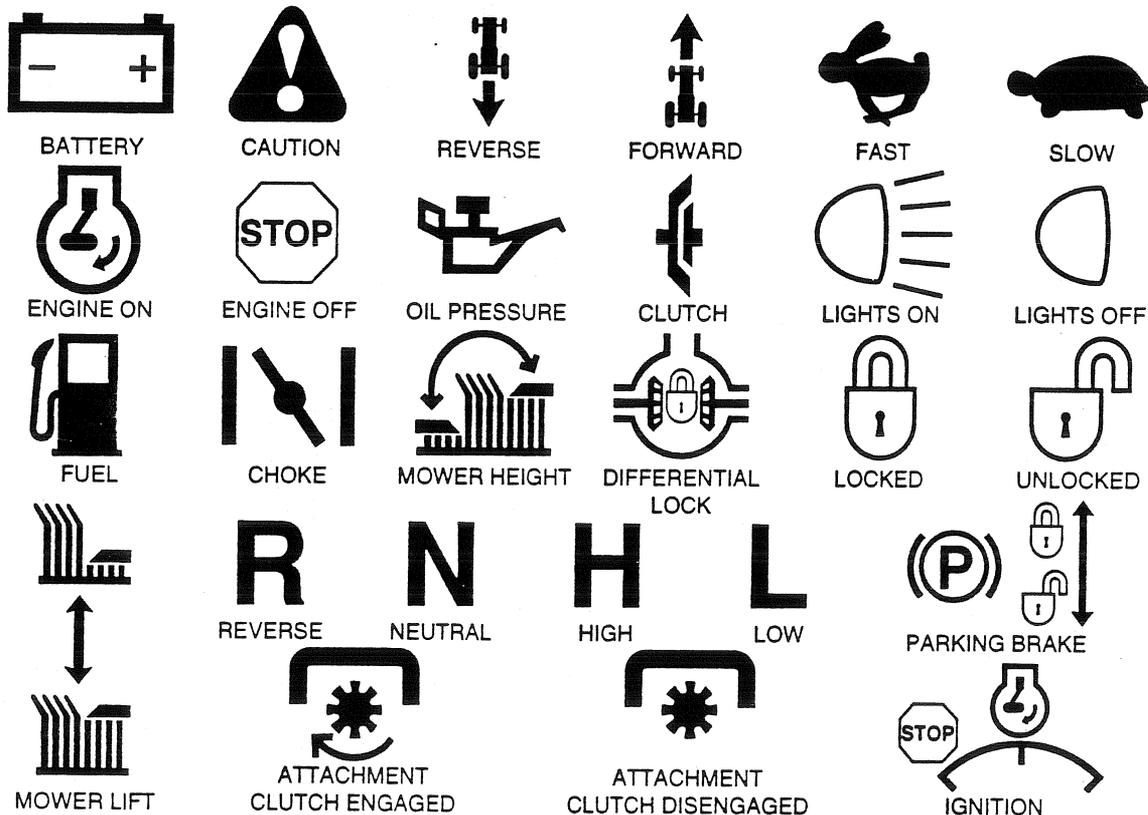
CONGRATULATIONS on your purchase of a new Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service facility. 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".

INTERNATIONAL SYMBOLS

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



NOTE: The illustrations shown in this manual are to aid in the assembly and operation of your tractor. They may or may not show the actual model you have purchased.

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.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest authorized service facility.

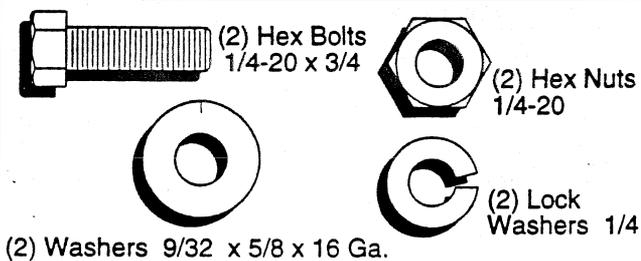
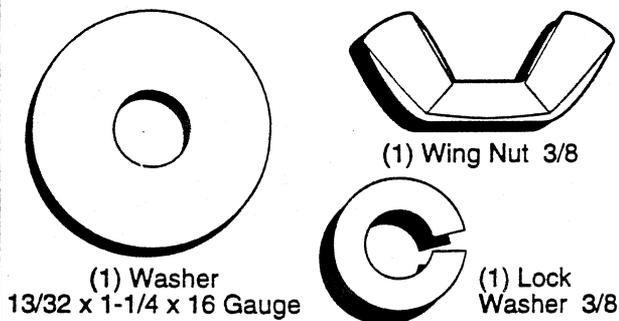
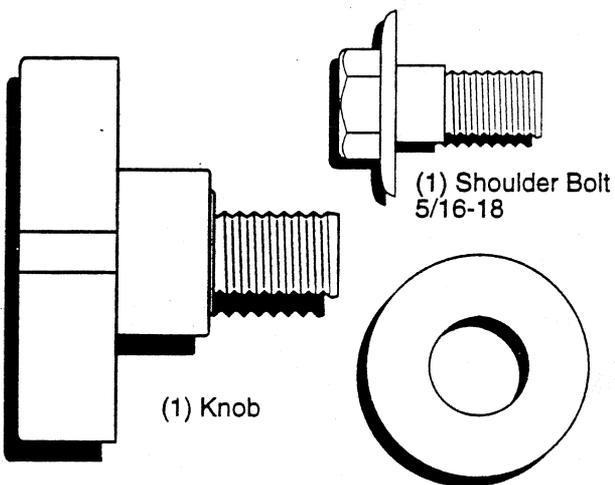
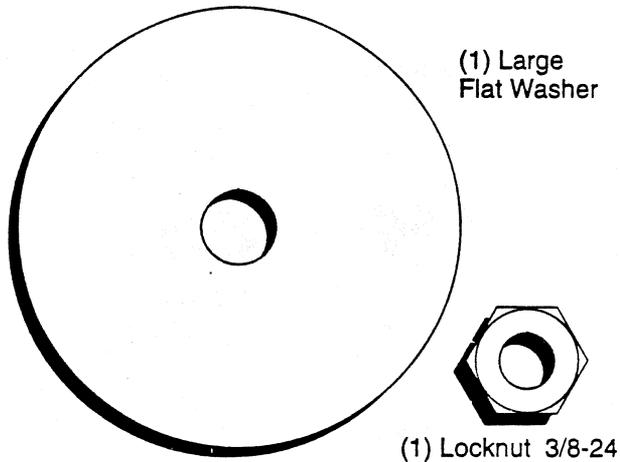
TABLE OF CONTENTS

SAFETY RULES	2
ASSEMBLY	5-8
OPERATION	9-13
CUSTOMER RESPONSIBILITIES	14-16
SERVICE AND ADJUSTMENTS	17-21

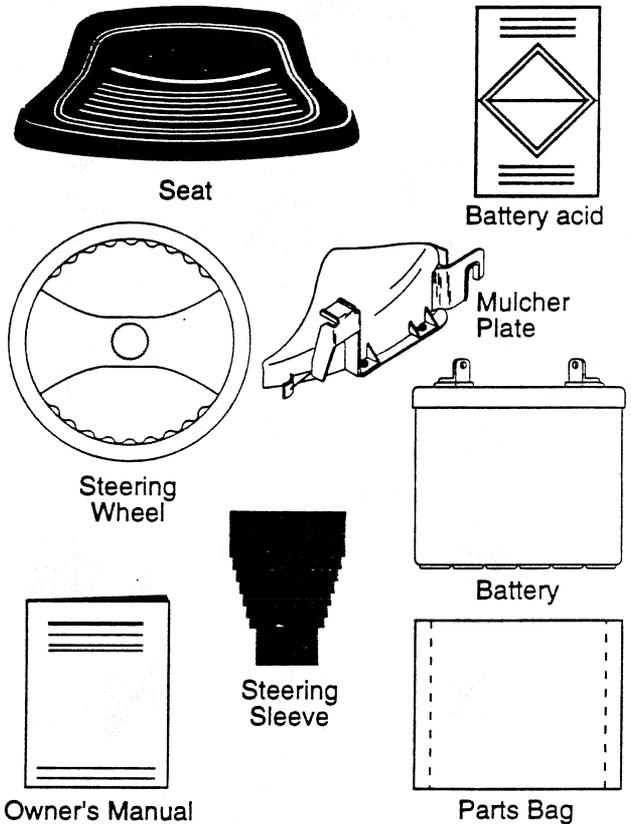
STORAGE	22
SCHEMATIC	23
TROUBLE SHOOTING	24-25
REPAIR PARTS	26-44
SLOPE SHEET	46
WARRANTY	47

CONTENTS OF HARDWARE PACK

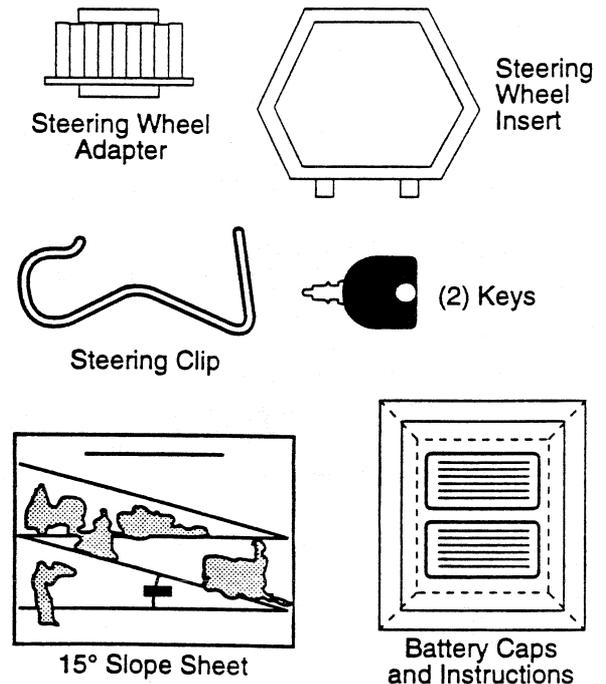
Parts Bag contents shown full size



Parts packed separately in carton



Parts bag contents not shown full size



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

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

When right and left hand are 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 4).
- 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

POSITION STEERING SHAFT (See Fig. 1A) -

- Lift hood.
- Pull steering shaft up to engage gears.
- Push steering clip through hole on steering shaft at 45° (hole is located under dash and above lower steering bushing).
- Push steering clip onto steering shaft until steering clip snaps into place.

INSTALL STEERING WHEEL (See Fig. 1B) -

- Slide the steering sleeve over the steering shaft (Bottom of sleeve goes over ring on dash).
- 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.

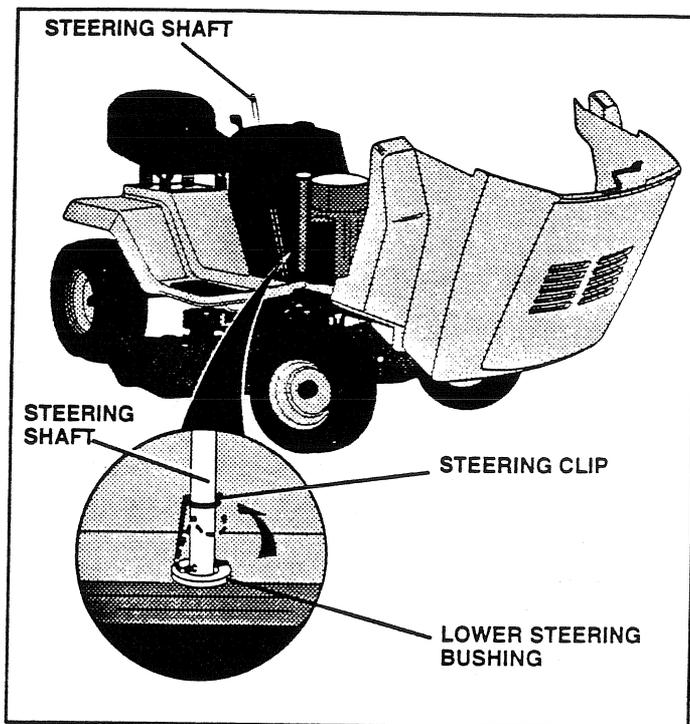


FIG. 1A

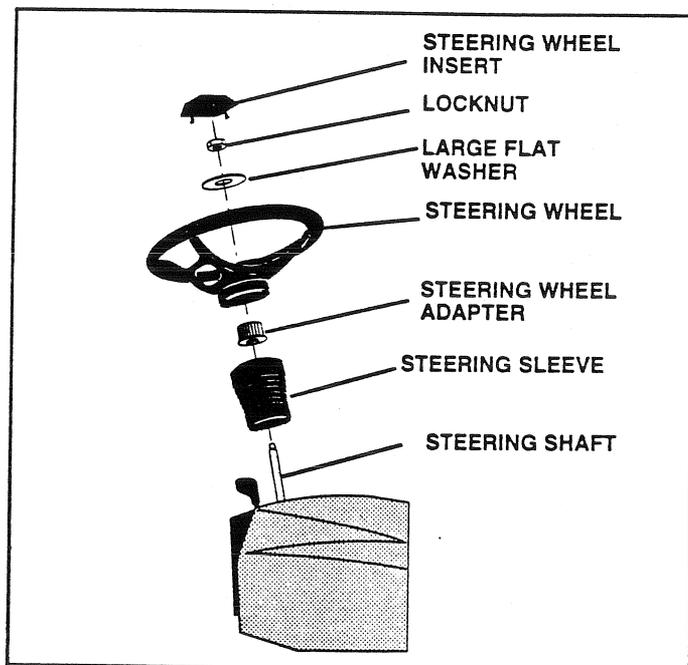


FIG. 1B

TO ROLL TRACTOR OFF SKID (See Fig. 7)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

ASSEMBLY

HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Fig. 2)



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.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- 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.

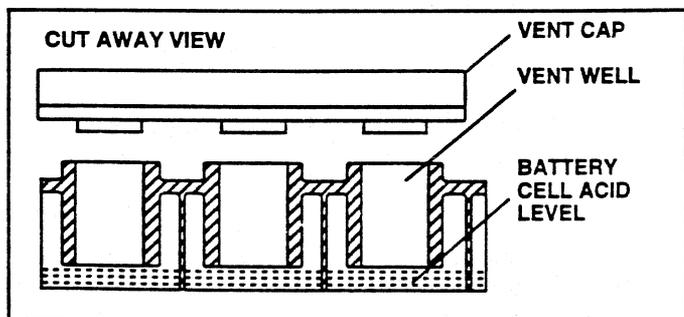


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt or optional knob.

- Remove cardboard packing on seat pan.
- Place seat on pan and assemble shoulder bolt.
- Assemble loosely adjustment bolt, lock washer and flat washer (or knob, if so equipped). 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 (See Fig. 7).
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt or knob securely.

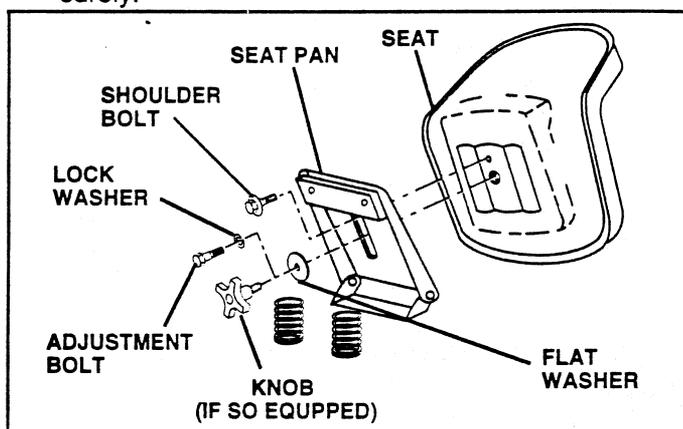


FIG. 3

CHECK TIRE PRESSURE

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

- Reduce tire pressure to 14 PSI in front tires and 12 PSI in rear tires.

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. 4A and 4B)



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 drain tube is attached to bottom of battery box and tube passes through hole in chassis for proper drainage.
- Lower battery into battery box with battery terminals toward front of tractor.
- First connect RED battery cable and RED fused ignition wire to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery 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.

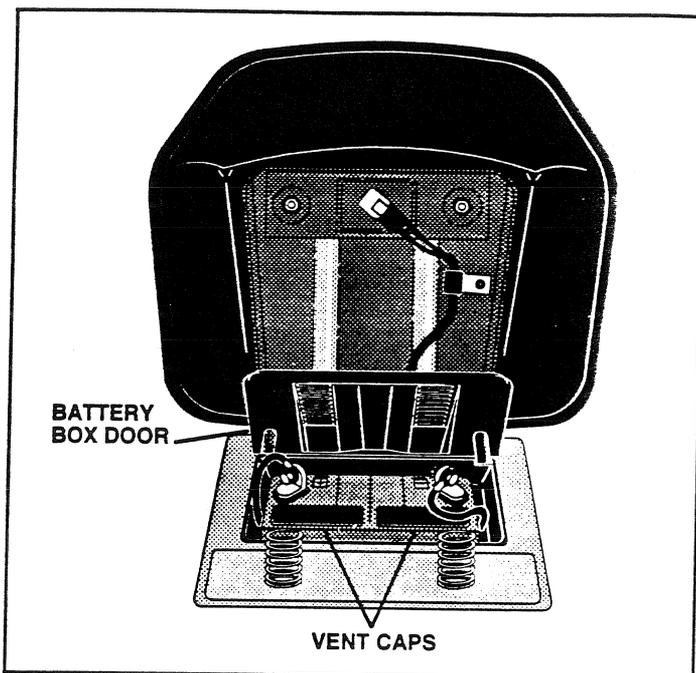


FIG. 4B

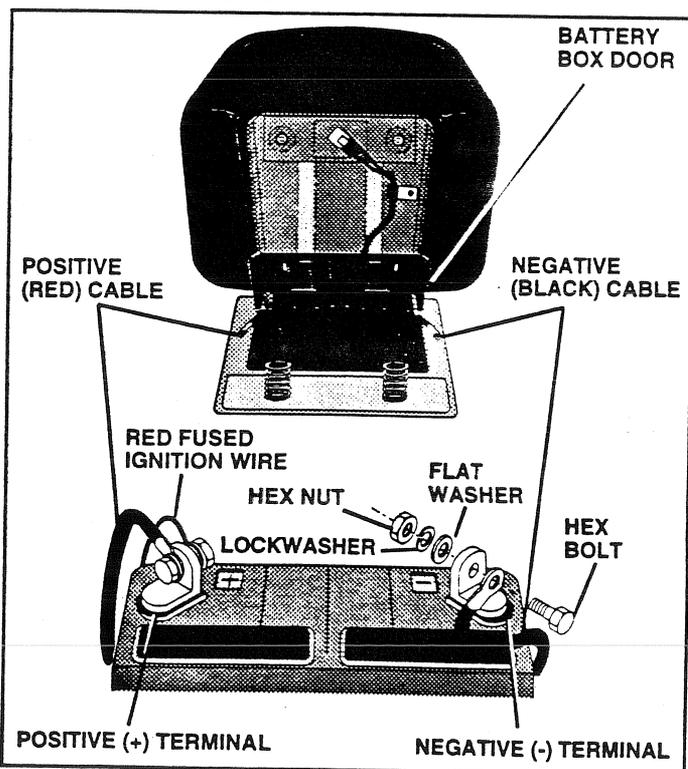


FIG. 4A

ASSEMBLY

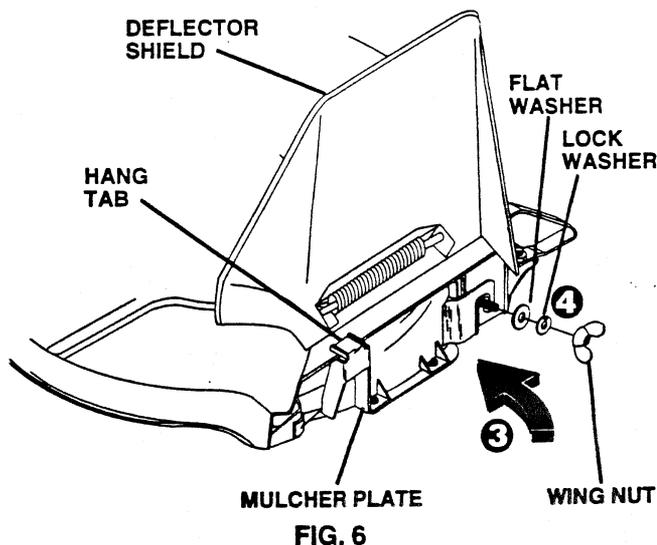
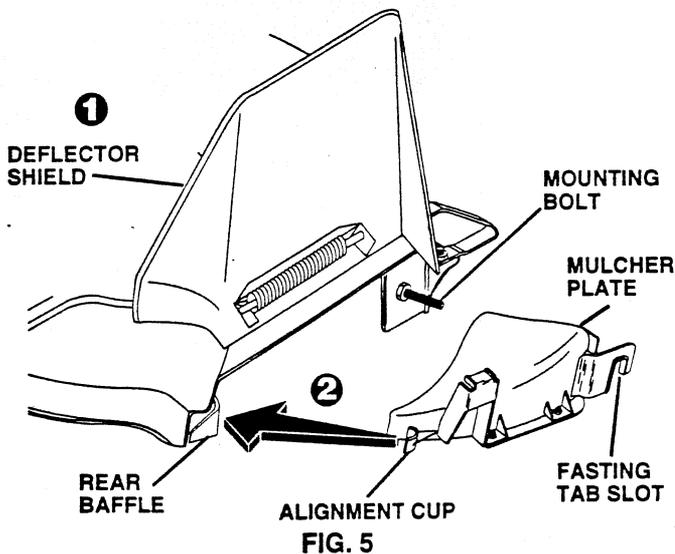
INSTALL MULCHER PLATE

(See Figs. 5 & 6)



CAUTION: Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation.

- ❶ Raise and hold deflector shield in the upright position.
- ❷ Position alignment cup over rear baffle.
- ❸ Pivot mulcher plate forward and hook on mounting bolt. Be sure hang tab hooks top of deck opening.
- ❹ Assemble flat washer, lock washer and wing nut to mounting bolt and tighten securely.



TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

✓ 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

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.

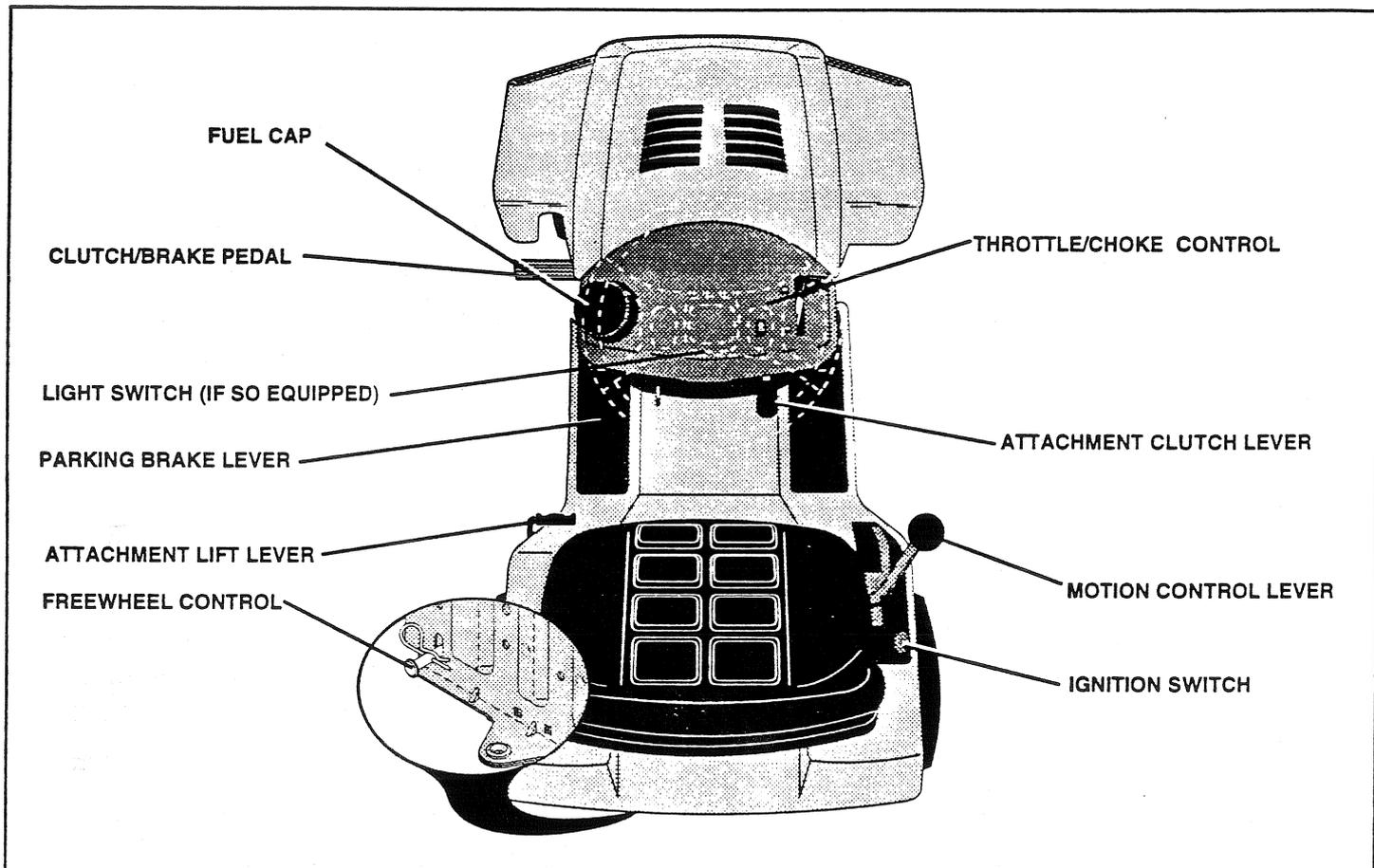


FIG. 7

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

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

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

LIGHT SWITCH: (If so equipped) Turns headlights on or off.

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

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

ATTACHMENT LIFT LEVER: Used to raise and lower the mower deck.

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

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 for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 8A)

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.

STOPPING (See Figs. 8A and 8B)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

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

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

ENGINE -

- Move throttle control to slow (🐢) position.

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

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

NOTE: Under certain conditions when unit 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.

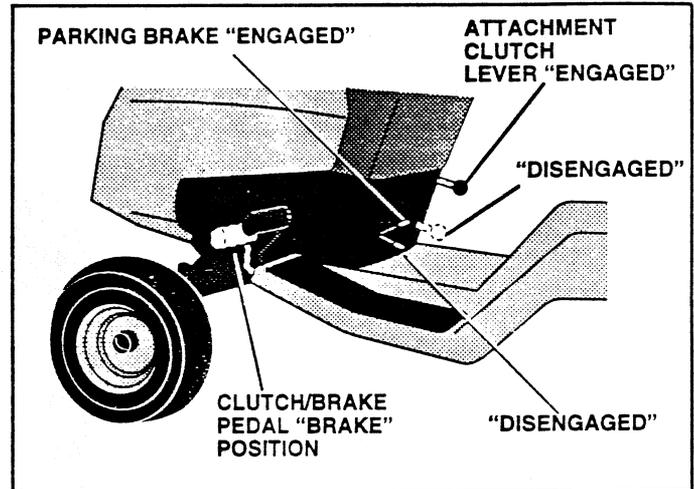


FIG. 8A

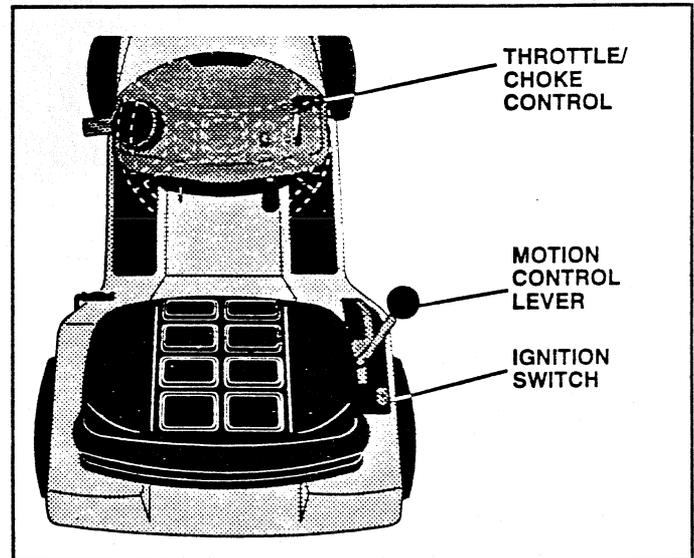


FIG. 8B

TO MOVE FORWARD AND BACKWARD (See Fig. 9)

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

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



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. 8B)

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.

OPERATION

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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

- Grasp lift lever as shown, lift away from fender and move forward or back to desired position.

The cutting height range is approximately 1-1/2" to 3-5/8". 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 type 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.

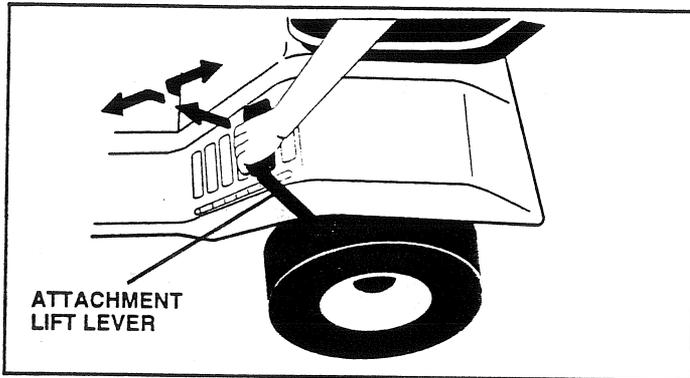


FIG. 9

TO OPERATE MOWER (See Figs. 9 and 10)

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.

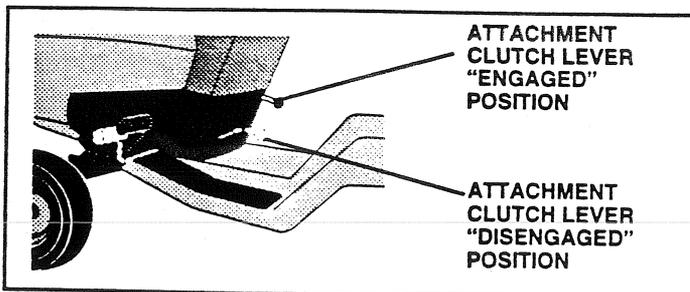


FIG. 10

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 motion control lever to neutral (N) position.

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

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

TO TRANSPORT (See Fig. 11)

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control knob out and hold in position by inserting retainer spring into forward hole of control rod.
- Do not push or tow tractor at more than two (2) MPH.
- To re-engage transmission, reverse above retainer spring and control rod procedure.

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

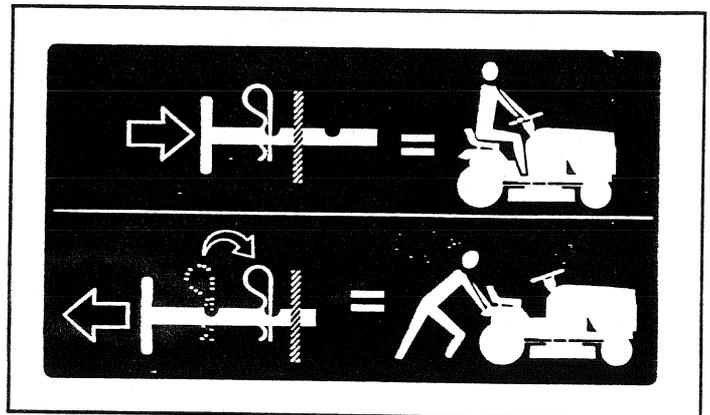


FIG. 11

OPERATION

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

- 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 dipstick and wipe clean, replace 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 engine manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

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 motion control 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, slowly move throttle control lever to desired running speed.

- Allow engine to warm up for a few minutes before engaging drive or attachments.

IMPORTANT: COLD STARTING FOR HYDRO (BELOW 40°F) - AFTER STARTING ENGINE AND BEFORE DRIVING, LET TRANSMISSION WARM UP FOR ONE (1) MINUTE BY PLACING MOTION CONTROL LEVER IN NEUTRAL (N) POSITION AND RELEASING CLUTCH/ BRAKE PEDAL.

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

PURGE TRANSMISSION

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

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

- Park tractor safely on a level surface so it will not roll in any direction. Parking brake must be disengaged for the following procedure.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of this manual).
- Start engine and move throttle control to slow (S) position. Be sure parking brake is not engaged.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.
- Move motion control lever to neutral (N) position.
- Stop tractor by turning ignition key to "OFF" position.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of this manual).
- Start engine and move throttle control to slow (S) position.
- Drive tractor forward for approximately five feet then backwards for five (5) feet. Repeat this driving procedure three (3) times.
- Your tractor is now ready for normal operation.

OPERATION

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- 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. 12).
- 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.

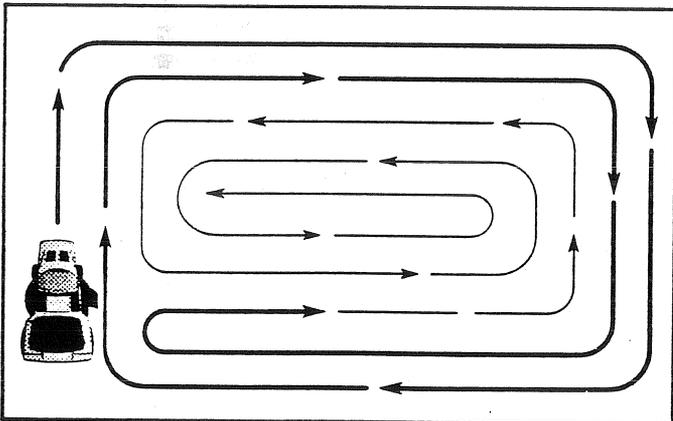


FIG. 12

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. X2). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

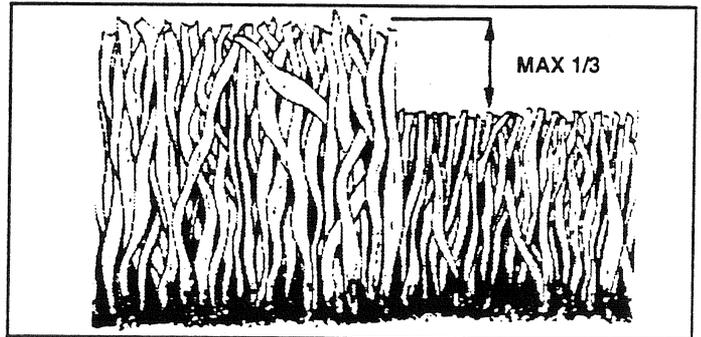


FIG. 13

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

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	✓						✓					
	Sharpen/Replace Mower Blades				✓ ₄								
	Lubrication Chart				✓			✓					
	Check Battery Level/Recharge				✓								
	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.

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.

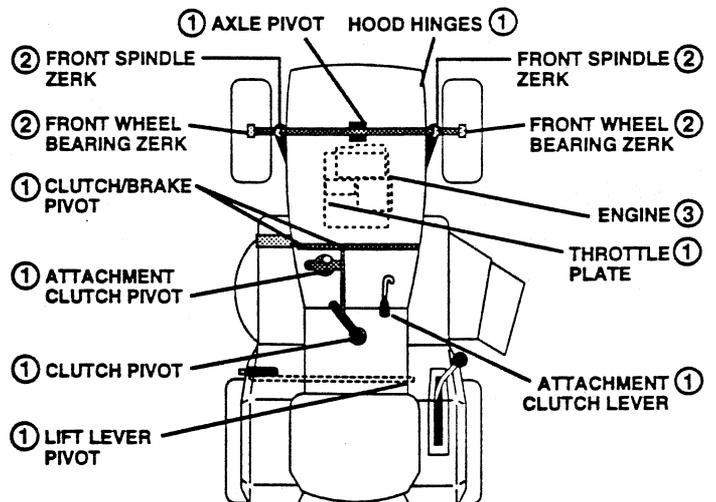
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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 API - SG
- 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 the brake must be adjusted. (See "TO ADJUST BRAKE" in Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires - 14 PSI in front tires and 12 PSI in rear tires.
- 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. 14)

- 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.

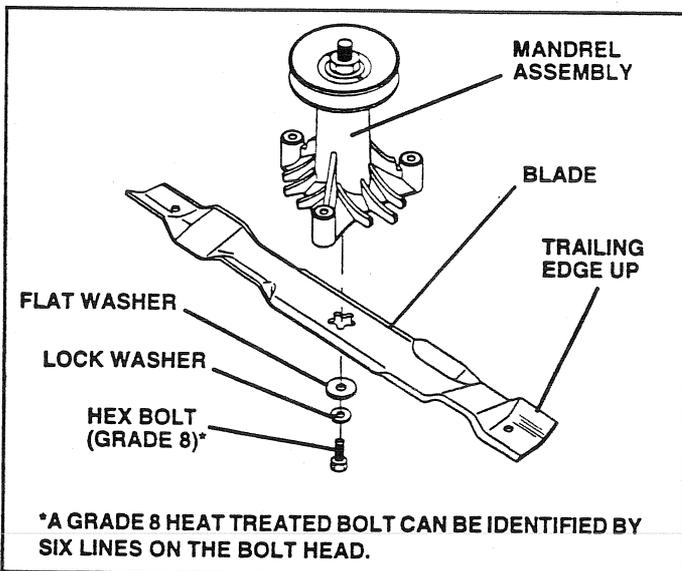


FIG. 14

TO SHARPEN BLADE (See Fig. 15)

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.

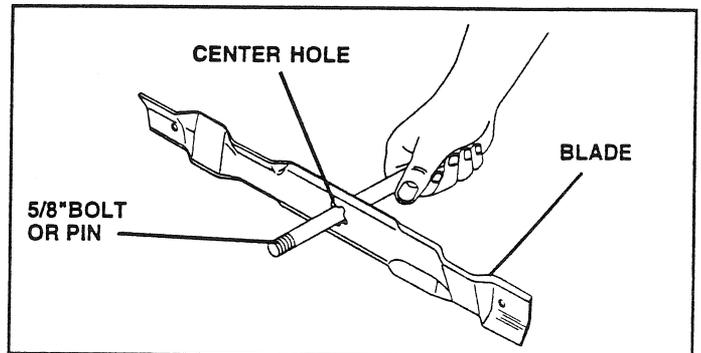


FIG. 15

BATTERY (See Fig. 16)

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.

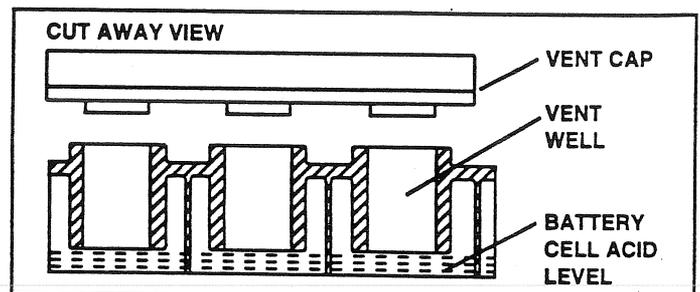


FIG. 16

CUSTOMER RESPONSIBILITIES

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).

V- BELTS

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

TRANSAXLE COOLING

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

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

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

TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

Change the oil after the first two hours of operation and every 25 hours of operation thereafter or at least once a year if the tractor is not used for 25 hours of operation in one year. See engine manual.

AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Remove cartridge every 25 hours and tap gently to clean. Replace paper cartridge once a year or after every 100 hours of operation, more often if used in very dusty, dirty conditions.

- Remove knobs and cover.
- Remove cartridge nut and clean or replace cartridge.
- Reassemble and tighten securely.

NOTE: Do not attempt to oil the paper cartridge. See engine manual.

CLEAN AIR SCREEN

The engine 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. See engine manual.

ENGINE COOLING FINS

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

MUFFLER

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

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of use, whichever occurs first. Gap should be set at .030 inch.

IN-LINE FUEL FILTER (See Fig. 17)

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.

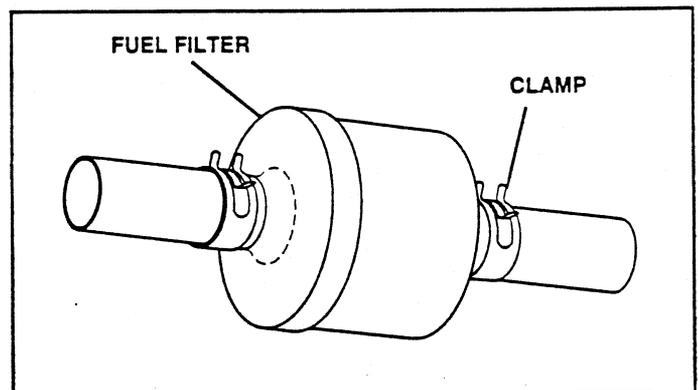


FIG. 17

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 unit unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS



CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Figs. 18 and 19)

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

- Park tractor on a level surface and engage parking brake.
- Be sure that mower clutch lever is in "DISENGAGED" position.
- Move attachment lift lever down to lowest cutting position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch arm by removing retainer spring.
- Disconnect rear suspension arms from chassis by removing retainer springs.
- Disconnect front links from mower deck by removing retainer springs.
- Disconnect rear lift links from mower deck by removing retainer springs.



CAUTION: When rear lift links are removed, the lift arms will be pulled up to the frame by the counterbalance spring. Keep hands free when removing rear lift links from lift arms.

- Raise mower lift lever to highest position.
- Slide mower deck out on right side of tractor.

TO INSTALL MOWER (See Figs. 18 and 19)

- Move attachment lift lever up to its highest position.
- Slide mower deck under tractor with discharge guard to right side of tractor.
- Move attachment lift lever forward to its lowest position.

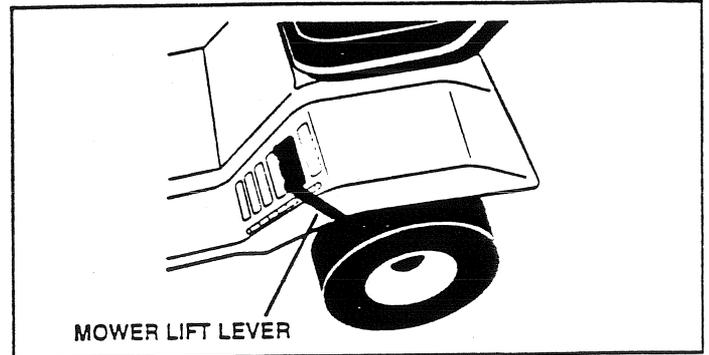


FIG. 18

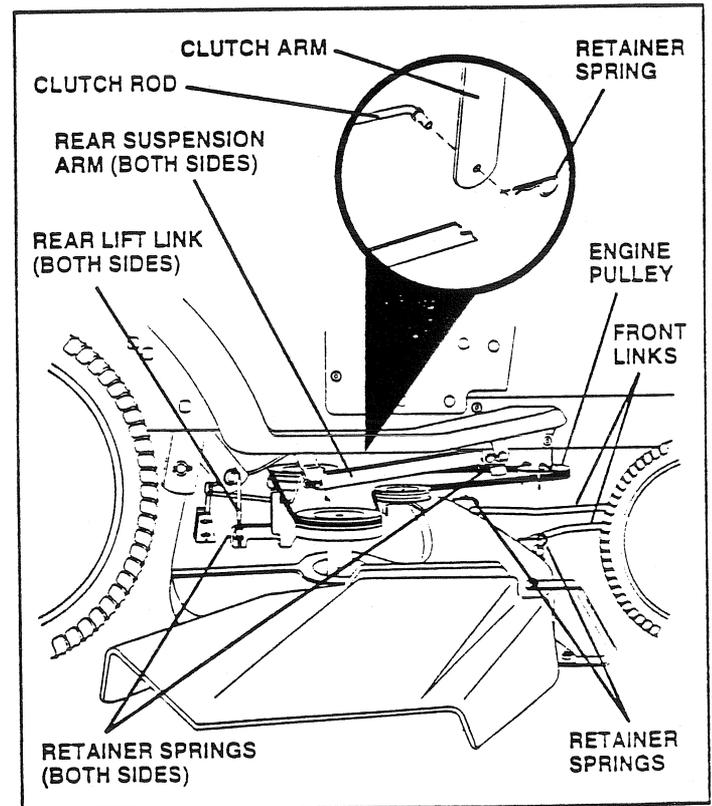


FIG. 19

SERVICE AND ADJUSTMENTS

TO LEVEL MOWER HOUSING

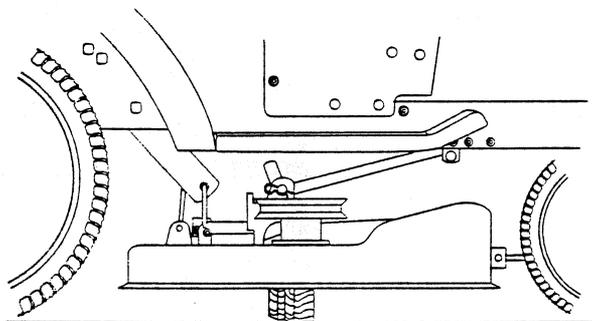
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3). If tires are over or under inflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 20 and 21) -

You will need two (2) standard 2 x 4 short pieces of wood to make the following adjustment. Similar blocks measuring 3-1/2" thick may also be used.

- Loosen nut "C" so that the adjustment plate can move up and down freely.
- Raise mower with attachment lift control to allow the two (2) 3-1/2" thick blocks to be placed directly under each mandrel.
- Lower mower deck until the blade bolt heads rest on the blocks.
- Be sure the mower deck rests level on both 3-1/2" thick blocks. Retighten nut "C".
- Raise mower with attachment lift control and remove blocks from under mower.

PLACE TWO (2) 3-1/2" THICK BLOCKS DIRECTLY UNDER MANDRELS AS SHOWN (Use wood 2 x 4's or equivalent)



DIRECTLY UNDER BLADE BOLTS

FIG. 20

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23) -

IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so 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 "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

You will need three (3) standard 2 x 4 short pieces of wood to make the following adjustment. Similar blocks measuring 1-1/2" thick may also be used.

- Loosen nuts "G" and "H" so that the adjustment plates can move freely.
- Raise mower with attachment lift control to allow the two (2) 1-1/2" thick blocks to be placed directly under each mandrel.
- Place the remaining block under the front edge of the mower deck, centered between the mandrels.
- Lower mower deck until the blade bolt heads rest on the blocks.
- Be sure the mower deck rests on all 1-1/2" thick blocks. Retighten nuts "G" and "H".
- Raise mower with attachment lift control and remove blocks from under mower.

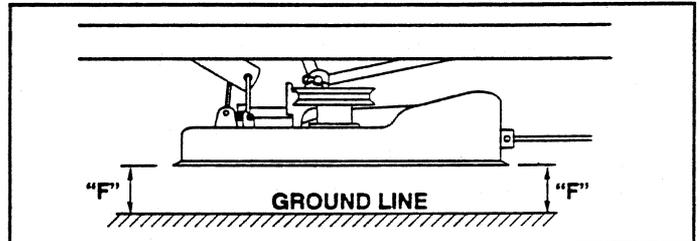


FIG. 22

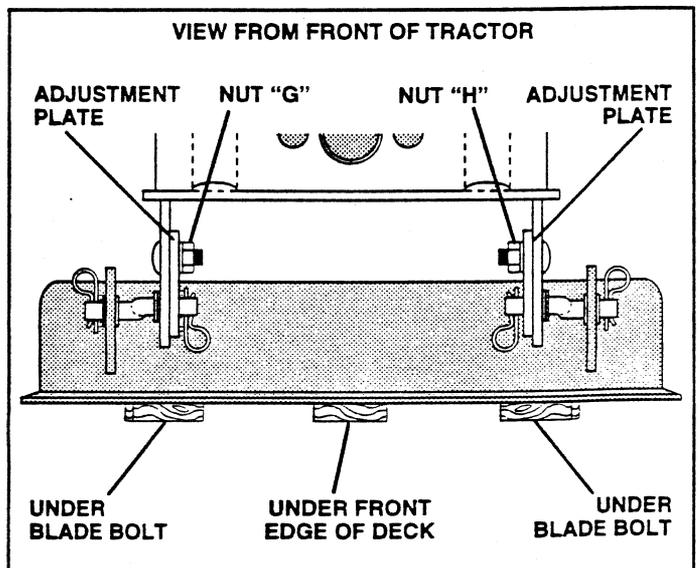


FIG. 23

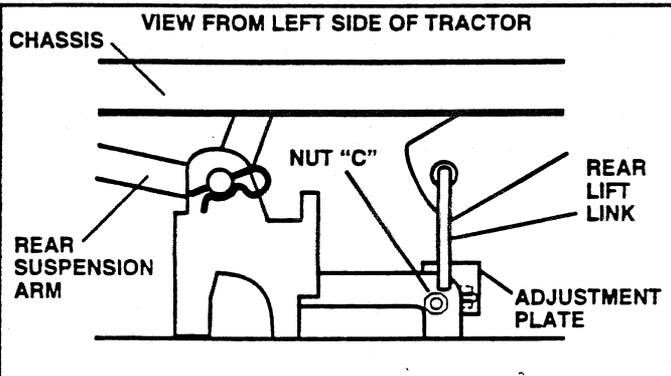


FIG. 21

SERVICE AND ADJUSTMENTS

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 unit 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 1-5/8", loosen jam nut and turn nut "A" until distance becomes 1-5/8". Retighten jam nut against nut "A".
- Road test unit 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.

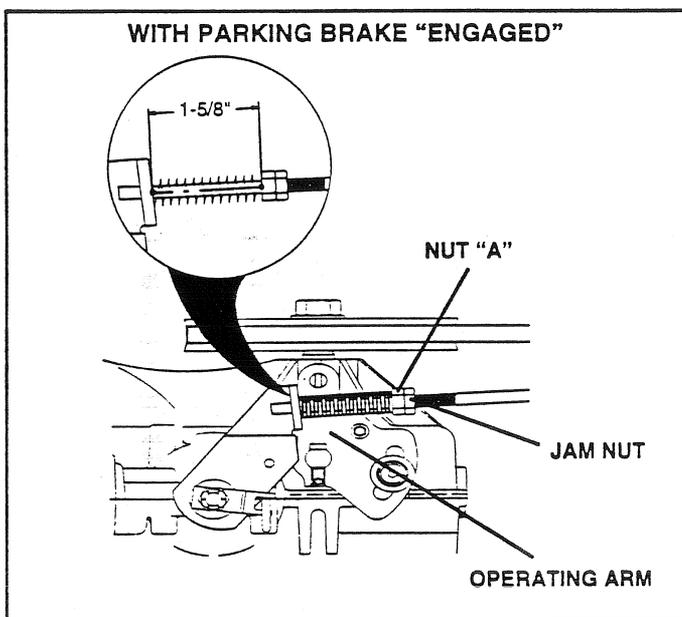


FIG. 24

TO REPLACE MOTION DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake.

- Engage parking brake.
- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Turn front wheels fully to left or right.
- Remove belt from stationary and clutching idlers.
- Remove belt downwards from motion drive sheave of engine pulley to create slack in belt.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Remove belt from frame belt keeper.
- Pull belt toward front of tractor and remove downwards from around mower drive sheave by deflecting belt keepers.
- Install new belt by reversing above procedure.
- Make sure that belt is inside all belt keepers.

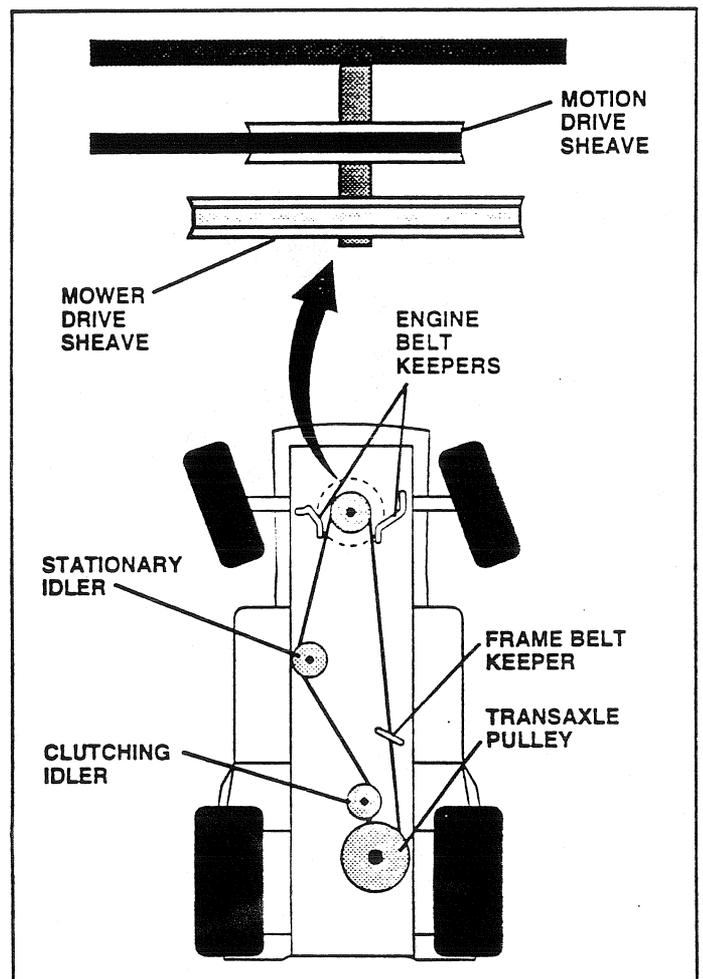


FIG. 25

SERVICE AND ADJUSTMENTS

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 unit. 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.

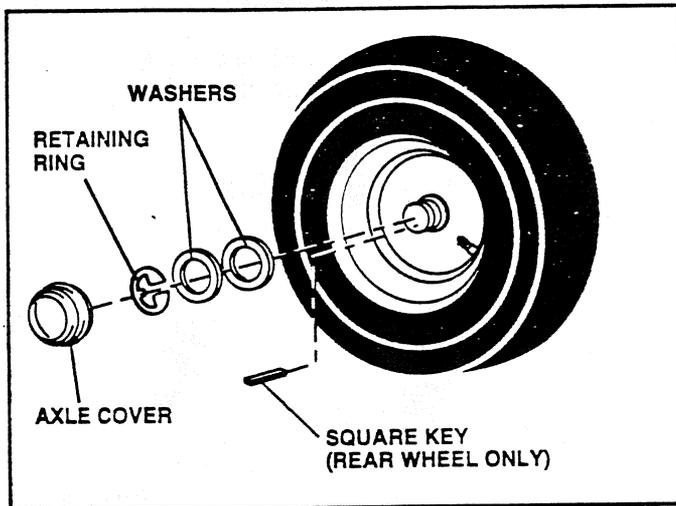


FIG. 26

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 GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED 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.

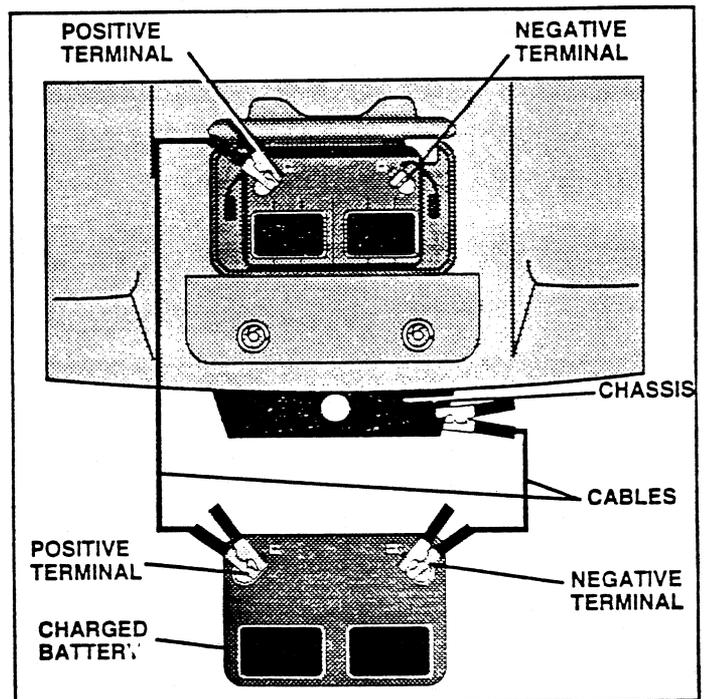


FIG. 27

TO REPLACE HEADLIGHT BULB (if so equipped)

- 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.

SERVICE AND ADJUSTMENTS

INTERLOCKS AND RELAYS

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

- Check wiring.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located next to the battery box, accessible from left rear wheel area.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig 28)

- With hood closed, remove hood spring pivot bracket.
- Remove left side and right side pivot screws.
- Lift hood off tractor.
- To reassemble hood, reverse above procedure.

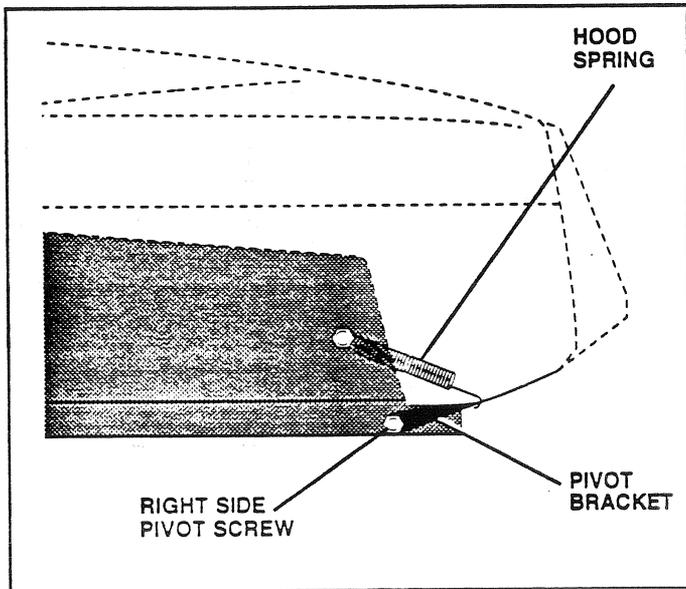


FIG. 28

ENGINE

TO ADJUST CARBURETOR

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, see engine manual.

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.

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

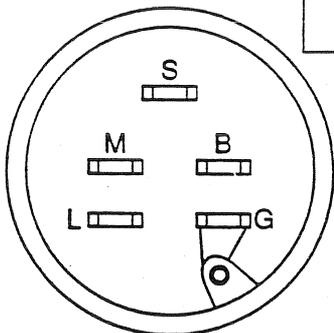
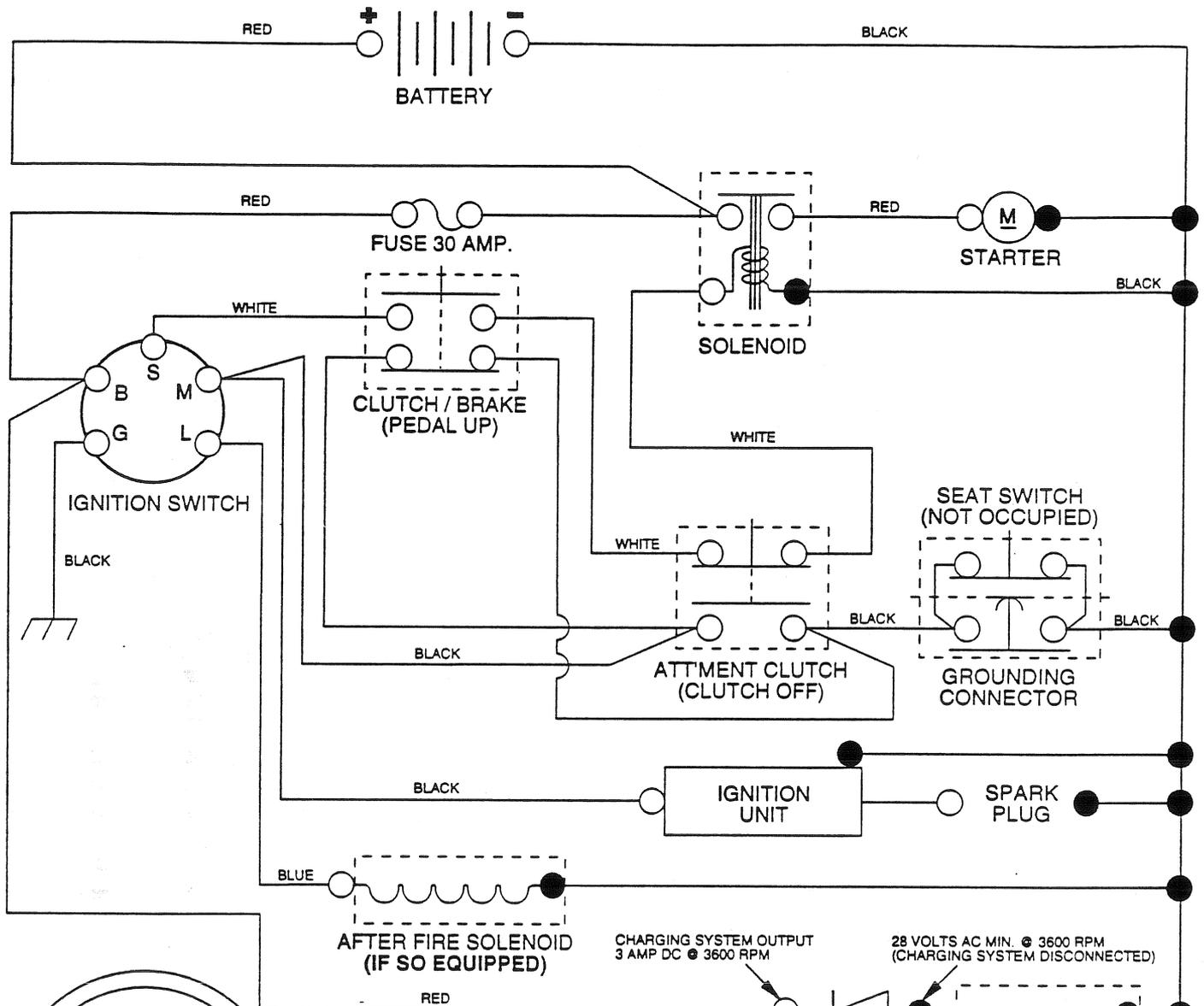
- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

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.

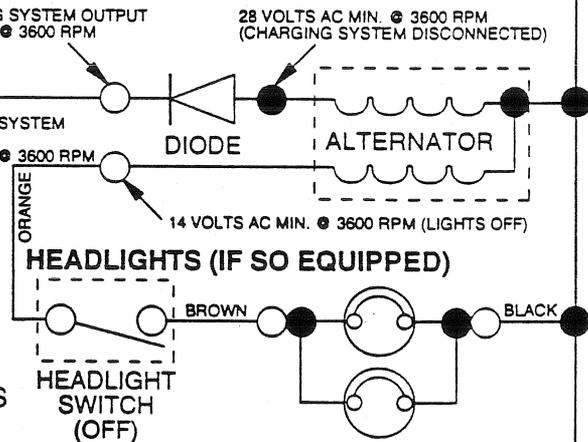
SCHEMATIC



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

NOTE
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



WIRING INSULATED CLIPS

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



TROUBLESHOOTING POINTS

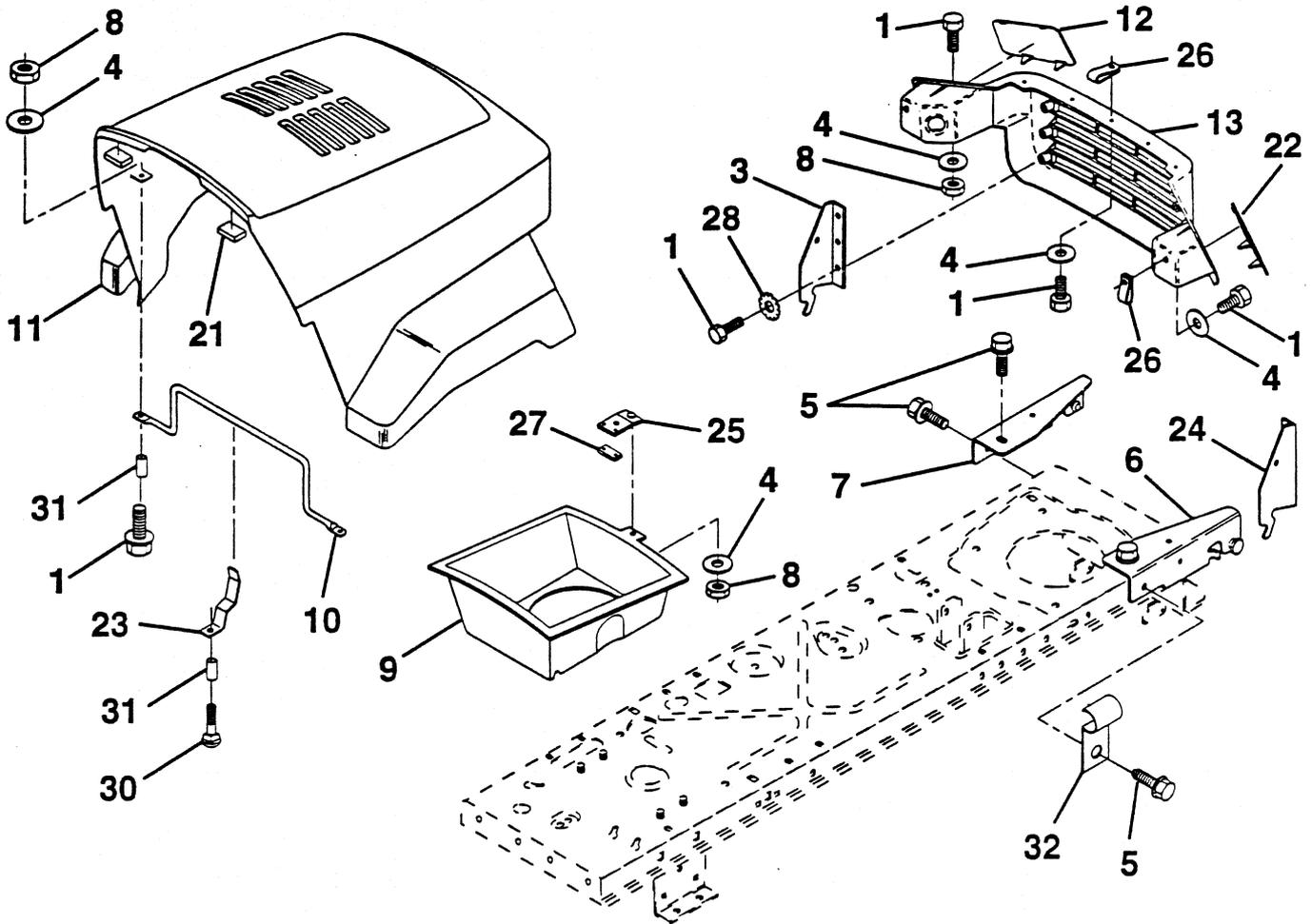
PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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). 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s). 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Faulty operator-safety presence control system. 	<ol style="list-style-type: none"> 1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department.
Poor cut - uneven	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.
Poor grass discharge	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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)	<ol style="list-style-type: none"> 1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Loss of drive	<ol style="list-style-type: none"> 1. Freewheel control in "disengaged" position. 2. Motion drive belt worn, damaged, or broken. 	<ol style="list-style-type: none"> 1. Place freewheel control in "engaged" position. 2. Replace motion drive belt.
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	<ol style="list-style-type: none"> 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
HOOD



KEY NO.	PART NO.	DESCRIPTION
1	874780410	Bolt Fin Hex 1/4-20 x 5/8
3	532128445	Bracket Pivot Hood LH
4	819091016	Washer Flat 1/4
5	817490512	Screw Thdrol 5/16-18 x 3/4
6	532140050	Bracket Asm. Pivot Hood RH
7	532140051	Bracket Asm. Pivot Hood LH
8	873220400	Nut Fin Hex 1/4-20
9	532123840	Duct Air Hood
10	532130850	Brace Hood
11	532140142	Hood
12	532130986	Lens LH

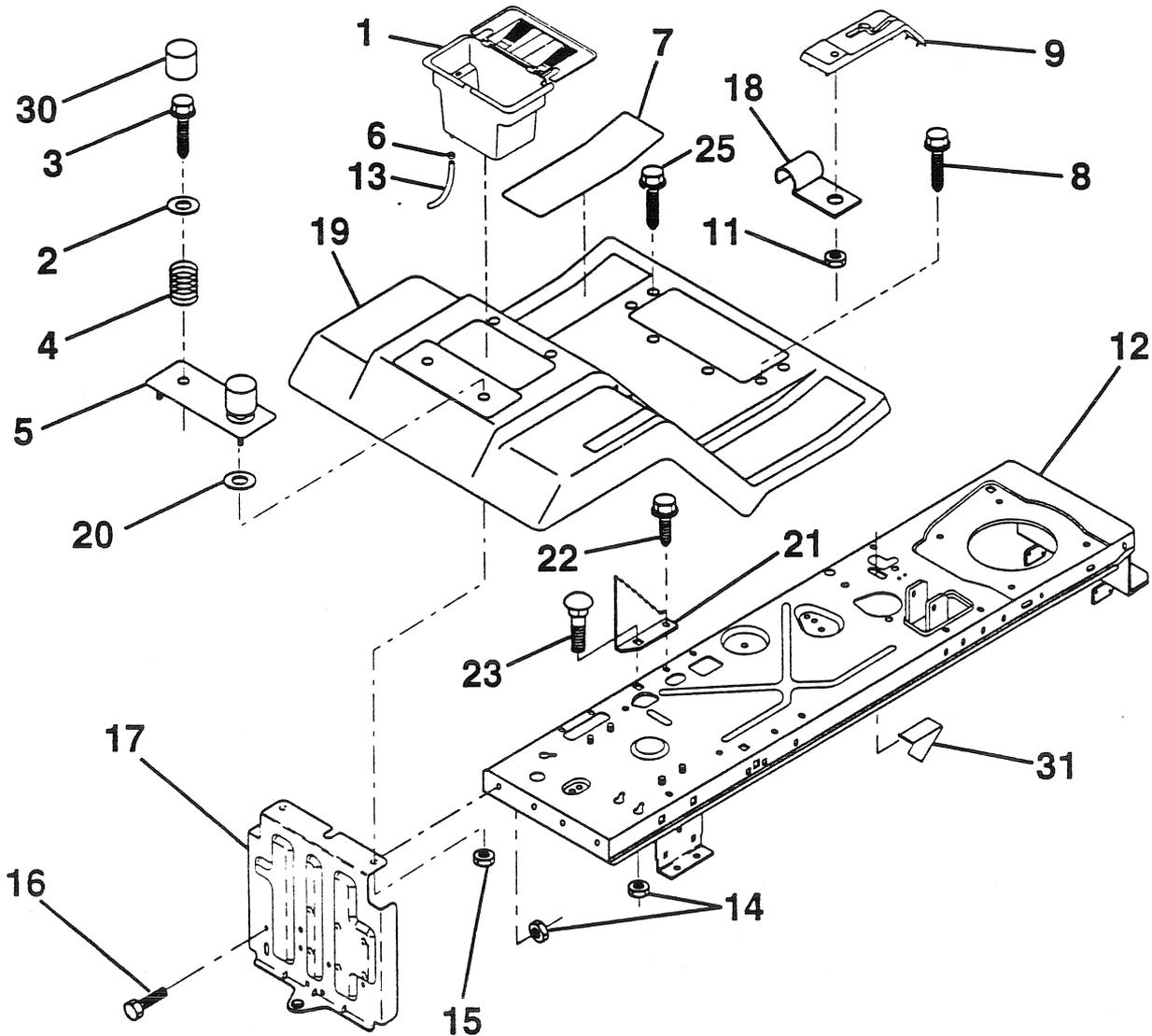
KEY NO.	PART NO.	DESCRIPTION
13	532130984	Grille
21	532126938	Bumper Hood
22	532130985	Lens RH
23	532139969	Latch Hood
24	532142873	Bracket Pivot Hood RH
25	532138740	Clip Asm. Duct Air
26	532052921	Clip Tinnerman
27	532131028	Clip Tinnerman
28	811050400	Washer Lock Ext Tooth
30	874780424	Bolt Hex Fin 1/4 - 20 UNC x 1-1/2
31	532138748	Spacer
32	532124996	Clip Line Fuel

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
FENDER/CHASSIS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532129965	Case Asm. Battery	15	873510401	Nut Keps Hex 1/4-20
2	819132012	Washer 13/32 x 1-1/4 x 12 Ga.	16	874760512	Bolt Hex Hd. 5/16-18 x 3/4
3	817490612	Screw Thdrol. 3/8-16 x 3/4	17	532140782	Drawbar Asm.
4	532124181	Spring seat	18	532126470	Clip Insulated
5	532125142	Plate Asm. Pnt Battery Fender	19	532141366	Fend/Foot Asm. Pnt Shf. Fnd.
6	532109596	Clamp Hose Olive	20	819091413	Washer 9/32 x 7/8 x 13 Ga.
7	532126700	Pad Footrest Rubber Deluxe	21	532140297	Bracket Stop Depth
8	817490512	Screw Thdrol. 5/16-18 x 3/4	22	817490508	Screw Thdrol 5/16-18 x 1/2
9	532140919	Console Shf. 6sp W/Ign.	23	872110506	Bolt Rdhdsqnk. 5/16-18 x 3/4
11	532124346	Nut Self Thd. Wsh-Hd 1/4	25	817490516	Scr-Hex Wsh Rol 5/16-18 x 1
12	532140784	Chassis Asm. Weldment	30	532124238	Cap Spring
13	532109238	Tube Plastic	31	532141736	Switch Actuator
14	873800500	Nut Crownlock 5/16-18			

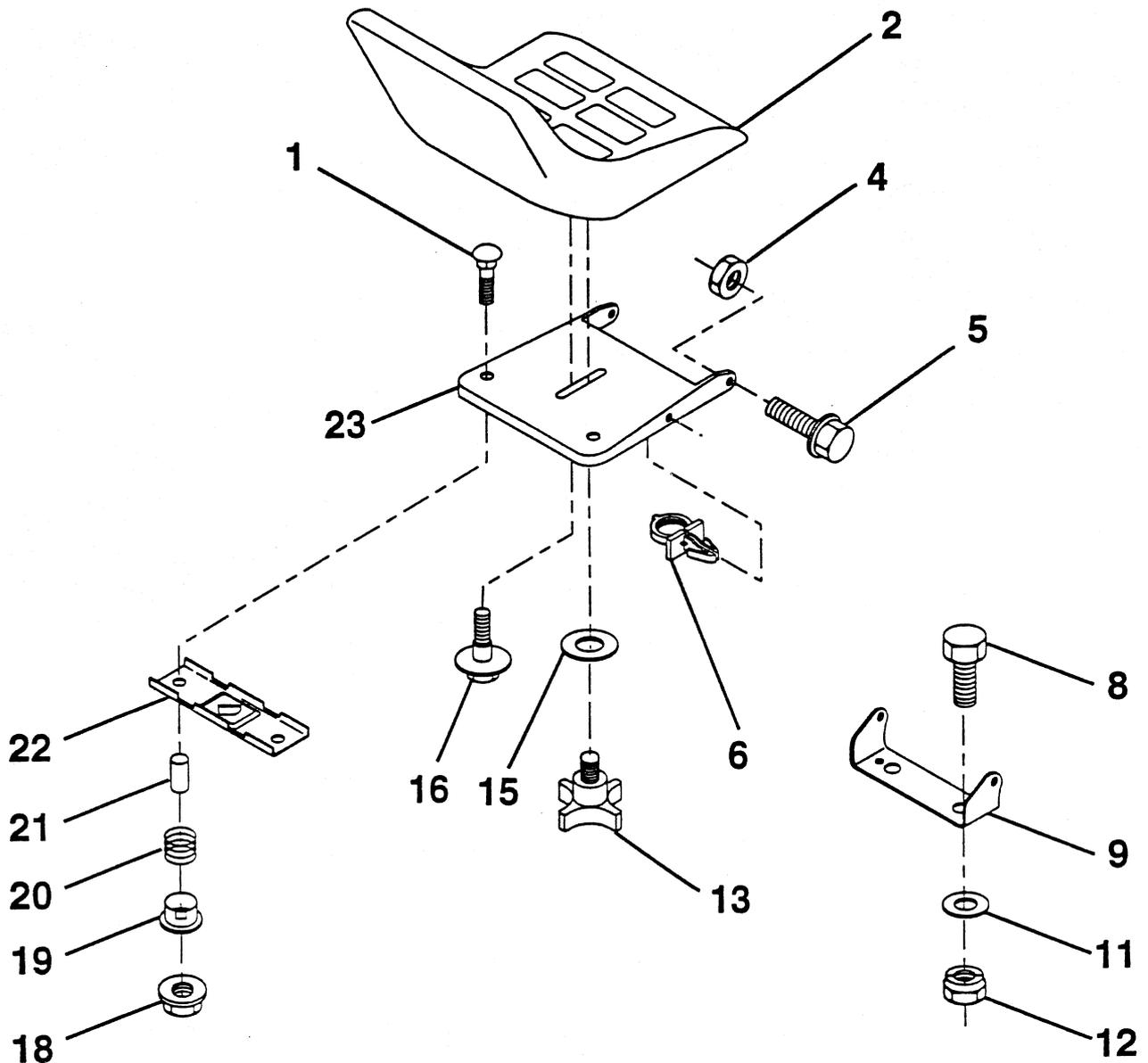
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

SEAT



KEY NO.	PART NO.	DESCRIPTION
1	872050411	Bolt, Carriage 1/4-20 x 1-3/8
2	532127398	Seat
4	873800500	Nut, Hex, Lock w/wsh 5/16-18
5	532139888	Bolt, Shoulder 5/16-18 UNC
6	532140407	Clip, Insulated
8	874760616	Bolt, Hex, Fin. 3/8-16 UNC x 1
9	532140551	Bracket, Pivot, Seat
11	819133210	Washer 12/32 x 2 x 10 Gauge
12	873800600	Nut, Hex, Lock Hex w/wsh 3/8-16
13	532120068	Knob, Seat

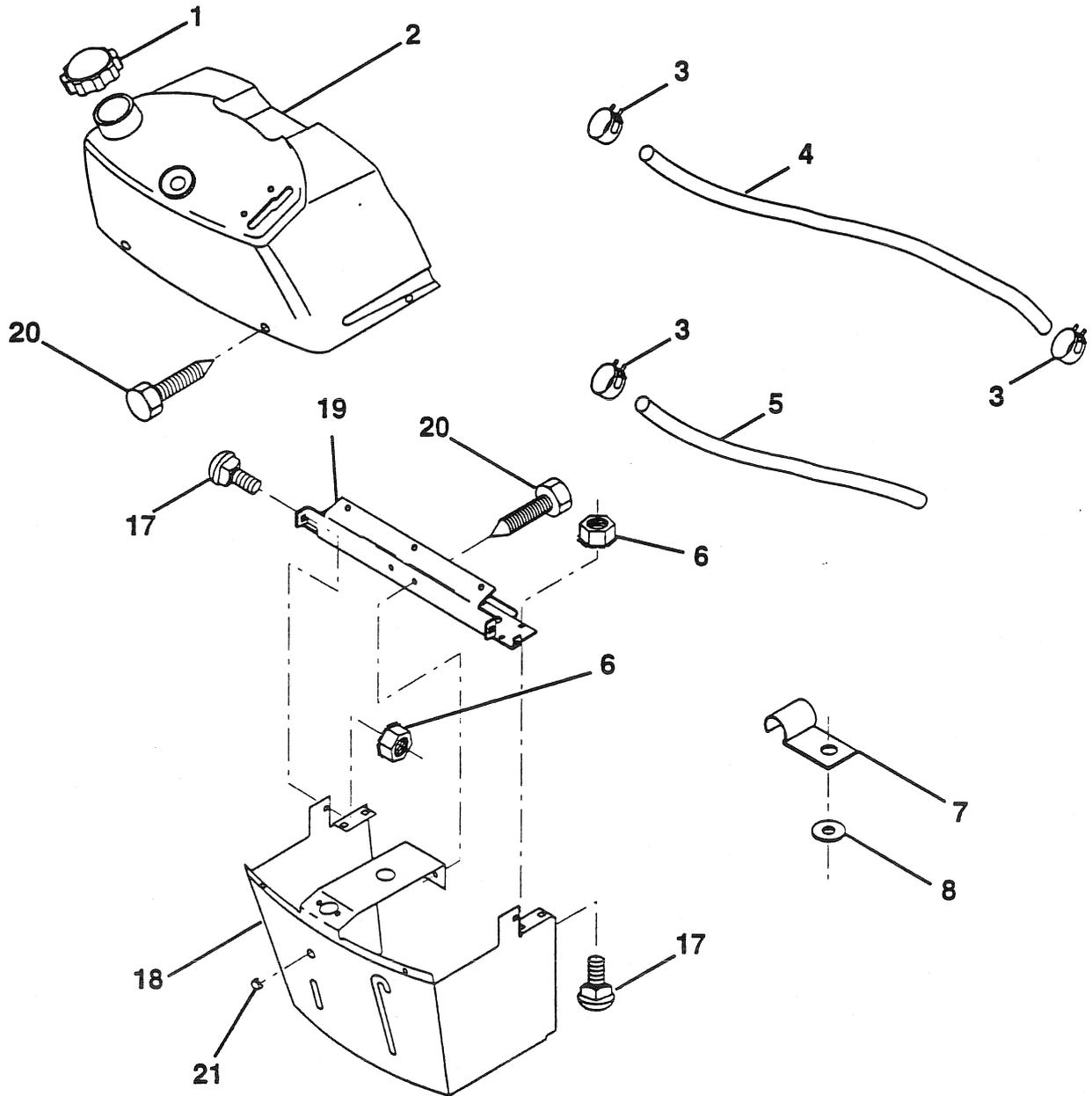
KEY NO.	PART NO.	DESCRIPTION
15	819171912	Washer 17/32 x 1-3/16 x 12 Gauge
16	532127018	Bolt, Shoulder
18	532123976	Nut, Hex, Large, Flange Lock
19	532121248	Bushing, Snap
20	532121250	Spring, Compression
21	532134300	Spacer, Split, Large .28 Id. x .96
22	532121246	Bracket, Switch Mounting
23	532140552	Pan, Seat

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
DASH



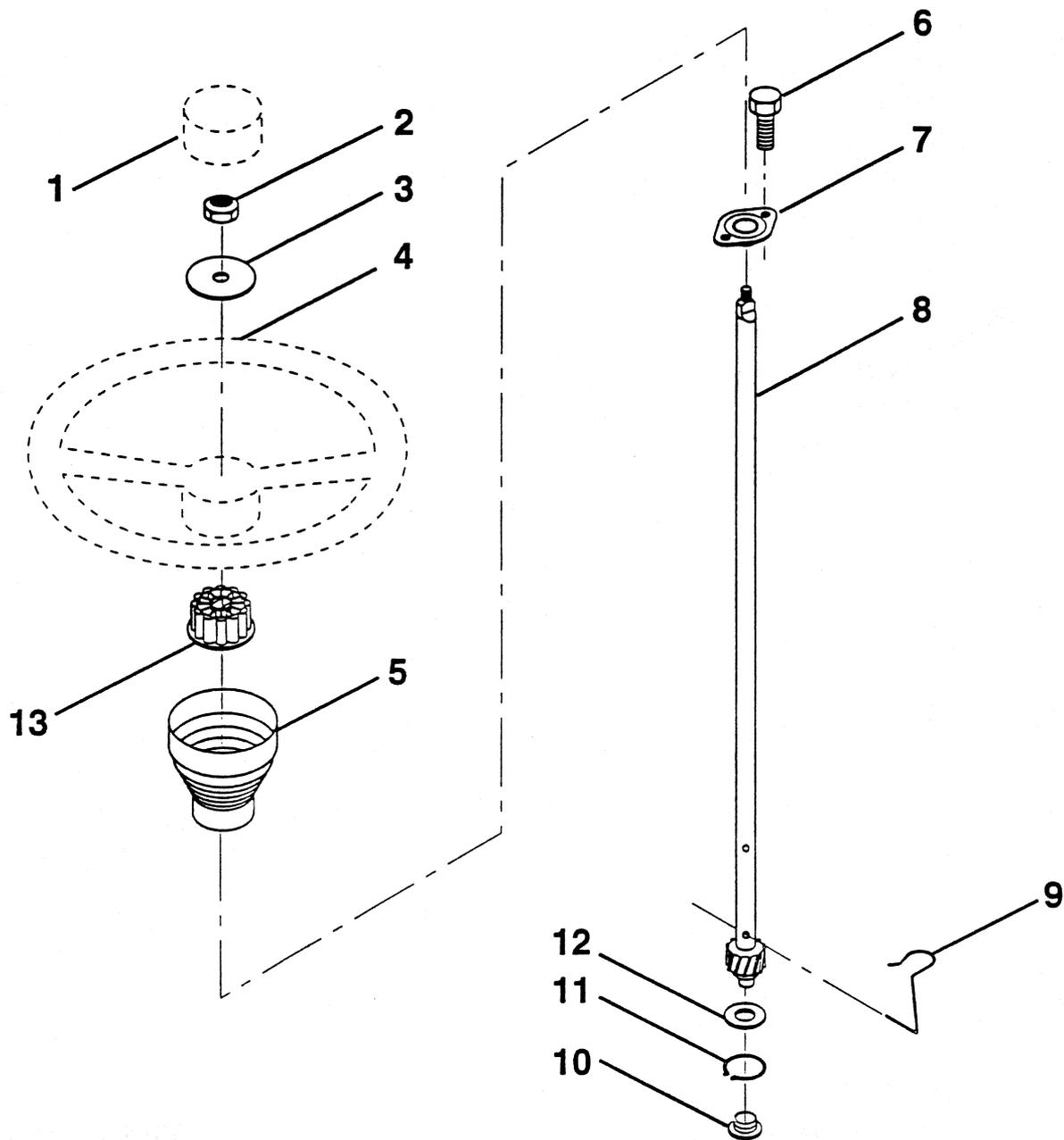
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532142187	Cap, Fuel Tank	8	819091216	Washer 9/32 x 3/4 x 16 Gauge
2	532138395	Assembly, Dash & Fuel Tank	17	872110404	Bolt, Carriage 1/4-20 x 1/2 Grade 5
3	532123487	Clamp, Hose	18	532131886	Support Assembly, Dash
4	532008544	Line, Fuel	19	532134744	Brace, Cross
5	532008548	Line, Fuel	20	817060408	Screw, Self-Tapping 1/4-20 x 1/2
6	873510400	Nut, Hex, Keps 1/4-20	21	532134014	Plug, Dome, Black
7	532124996	Clip, Fuel Line			

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
STEERING WHEEL



KEY NO.	PART NO.	DESCRIPTION
1	532124416	Insert, Steering Wheel
2	532124701	Locknut 3/8-24 UNF
3	819133808	Washer 12/32 x 2-3/8 x 8 Gauge
4	532124415	Steering Wheel
5	532127396	Sleeve, Steering
6	817431008	Screw, Hex Head #10-16 x 1/2

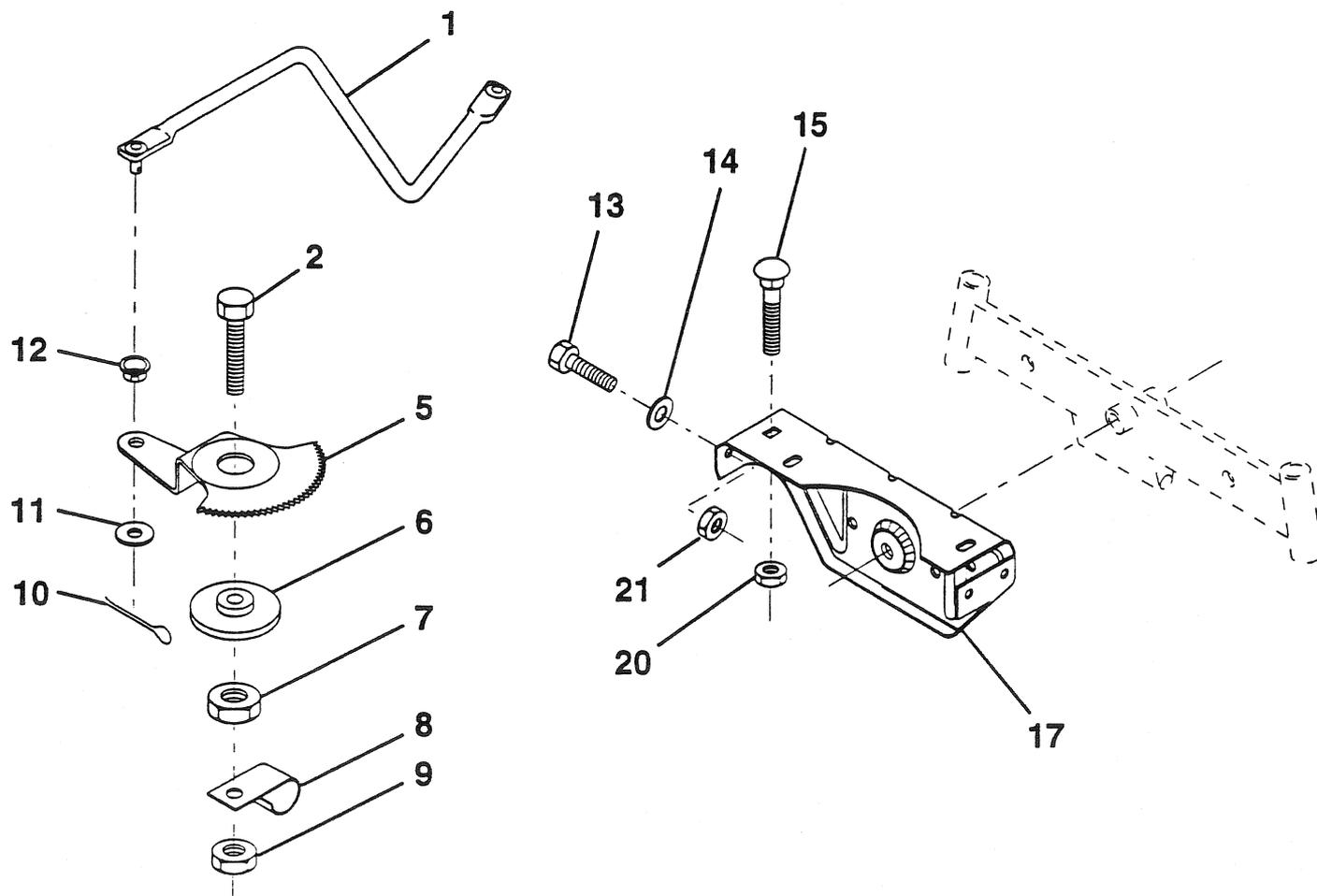
KEY NO.	PART NO.	DESCRIPTION
7	532102803	Bushing, Steering
8	532123651	Shaft, Steering
9	532124210	Clip, Steering
10	532123438	Bushing, Lower, Steering
11	812000045	Ring, Retaining
12	819211616	Washer 21/32 x 1 x 16 Gauge
13	532104820	Adaptor, Steering Wheel

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
SECTOR GEAR / AXLE SUPPORT



KEY NO.	PART NO.	DESCRIPTION
1	532132566	Link, Drag
2	874780828	Bolt, Hex, Fin. 1/2-13 x 1-3/4
5	532121926	Gear, Sector
6	532121927	Bushing
7	873030800	Nut, Heavy Hex, Top Lock 1/2-13 UNC
8	532126472	Clip, Insulated
9	873680800	Nut, Crownlock 3/8-16
10	876020412	Pin, Cotter 1/8 x 3/4
11	819131316	Washer 13/32 x 13/16 x 16 Gauge

KEY NO.	PART NO.	DESCRIPTION
12	532126847	Bushing
13	874760512	Bolt, Hex Head 5/16-18 UNC x 1
14	819111416	Washer 11/32 x 7/8 x 16 Gauge
15	872110606	Bolt, Carriage 3/8-16 UNC x 3/4
17	532137096	Support, Front Axle
20	873800600	Nut, Hex, Lock Hex w/wsh 3/8-16
21	873800500	Nut, Hex, Lock Hx w/Ins 5/16-18

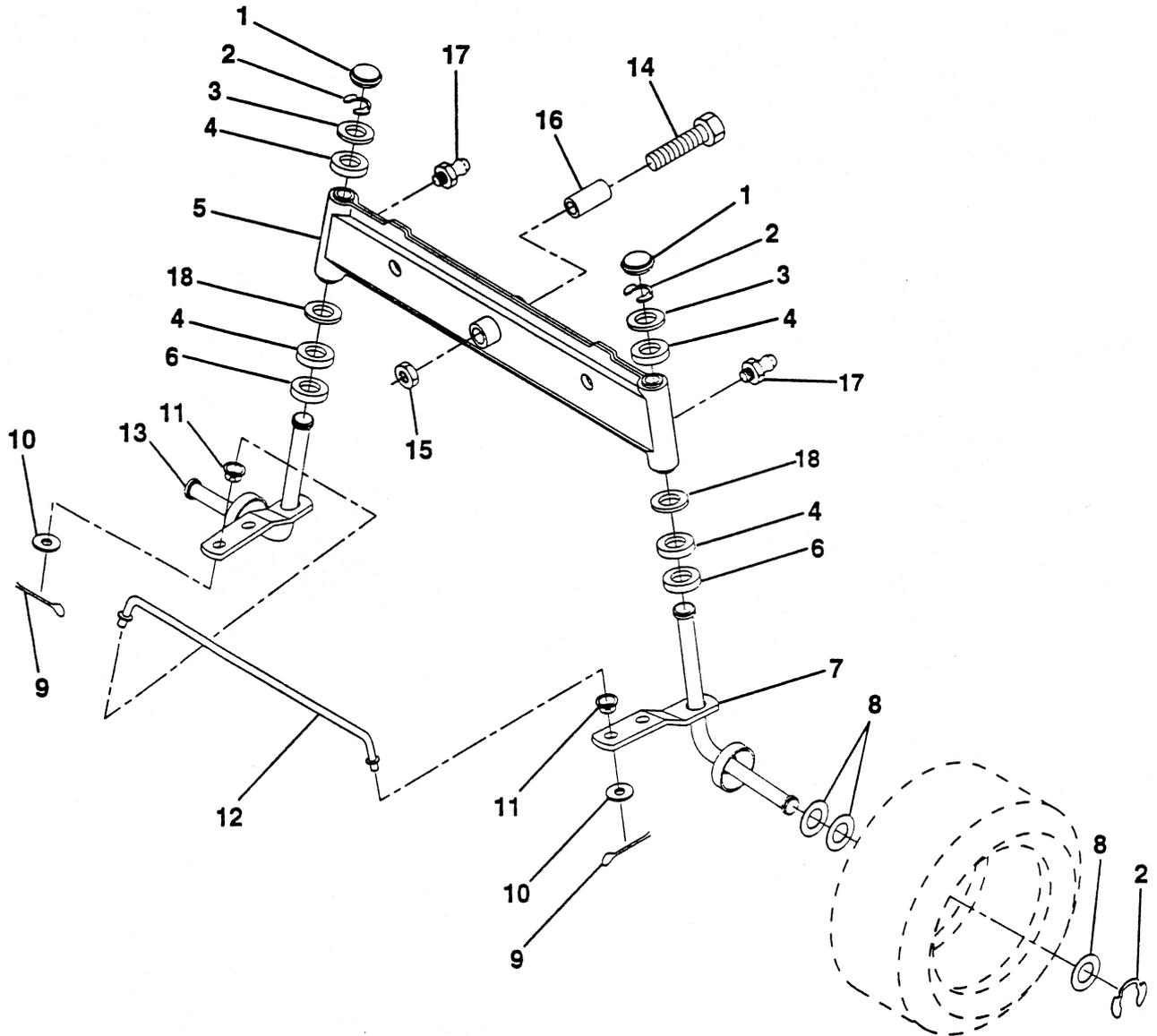
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

FRONT AXLE



KEY NO.	PART NO.	DESCRIPTION
1	532121232	Cap, Spindle
2	812000029	Ring, Clip
3	532121748	Washer 25/32 x 1-5/8 x 16 Gauge
4	532124937	Bearing
5	532142033	Axle, Front
6	532124931	Bearing, Thrust
7	532137062	Spindle Assembly, R.H.
8	532121749	Washer 25/32 x 1-1/4 x 16 Gauge
9	876020412	Pin, Cotter 1/8 x 3/4
10	819131316	Washer 13/32 x 13/16 x 16 Gauge

KEY NO.	PART NO.	DESCRIPTION
11	532126847	Bushing
12	532130465	Tie Rod
13	532137061	Spindle Assembly, L.H.
14	874011056	Bolt Hex 5/8-11 Unc x 3-1/2
15	873901000	Nut Lock Flange 5/8-11 Unc
16	532110438	Spacer Bearing
17	532124836	Fitting Grease
18	819272016	Washer 27/32 x 1-1/4 x 16 Ga.

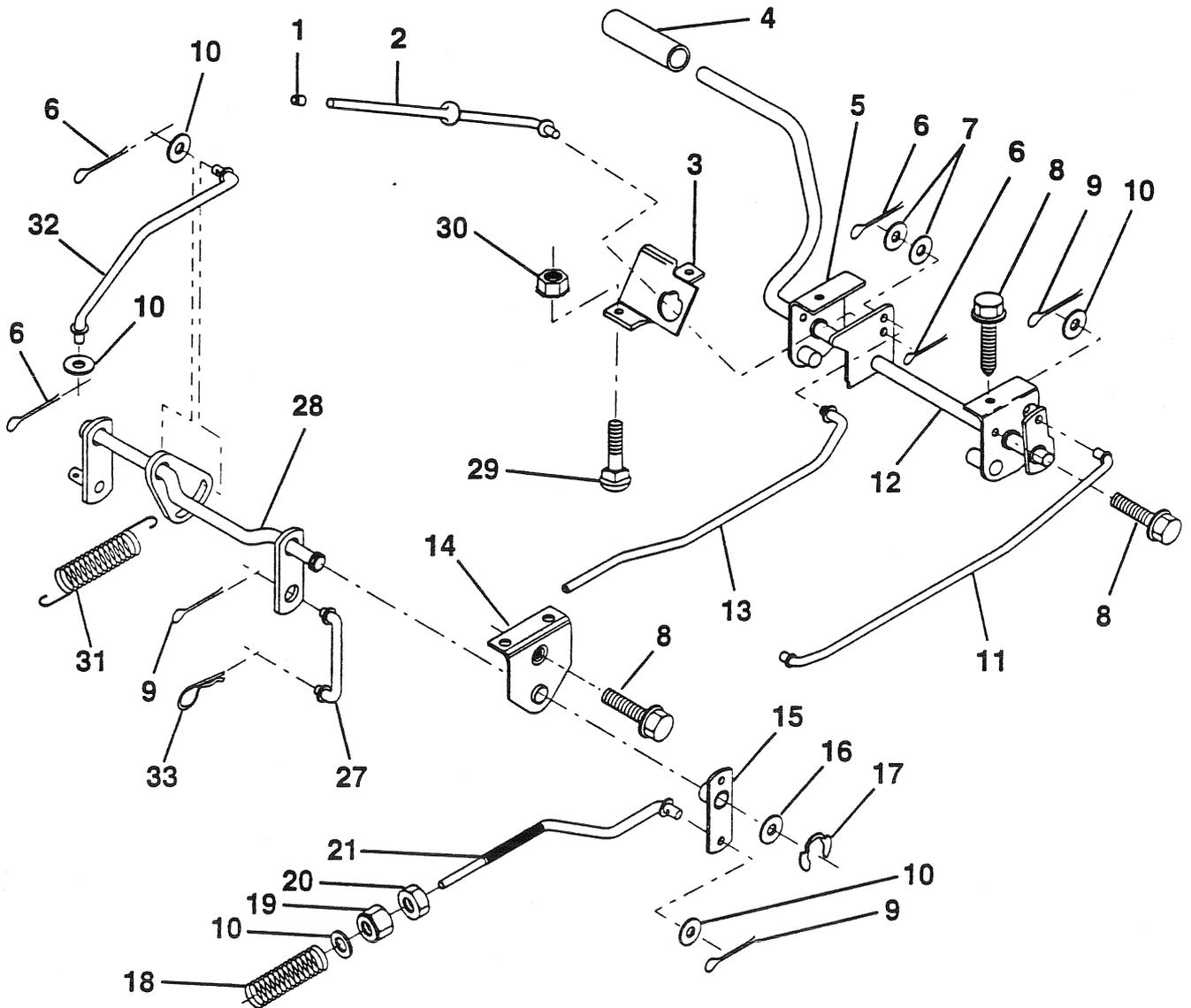
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

BRAKE / REAR MOWER LIFT ASSEMBLY



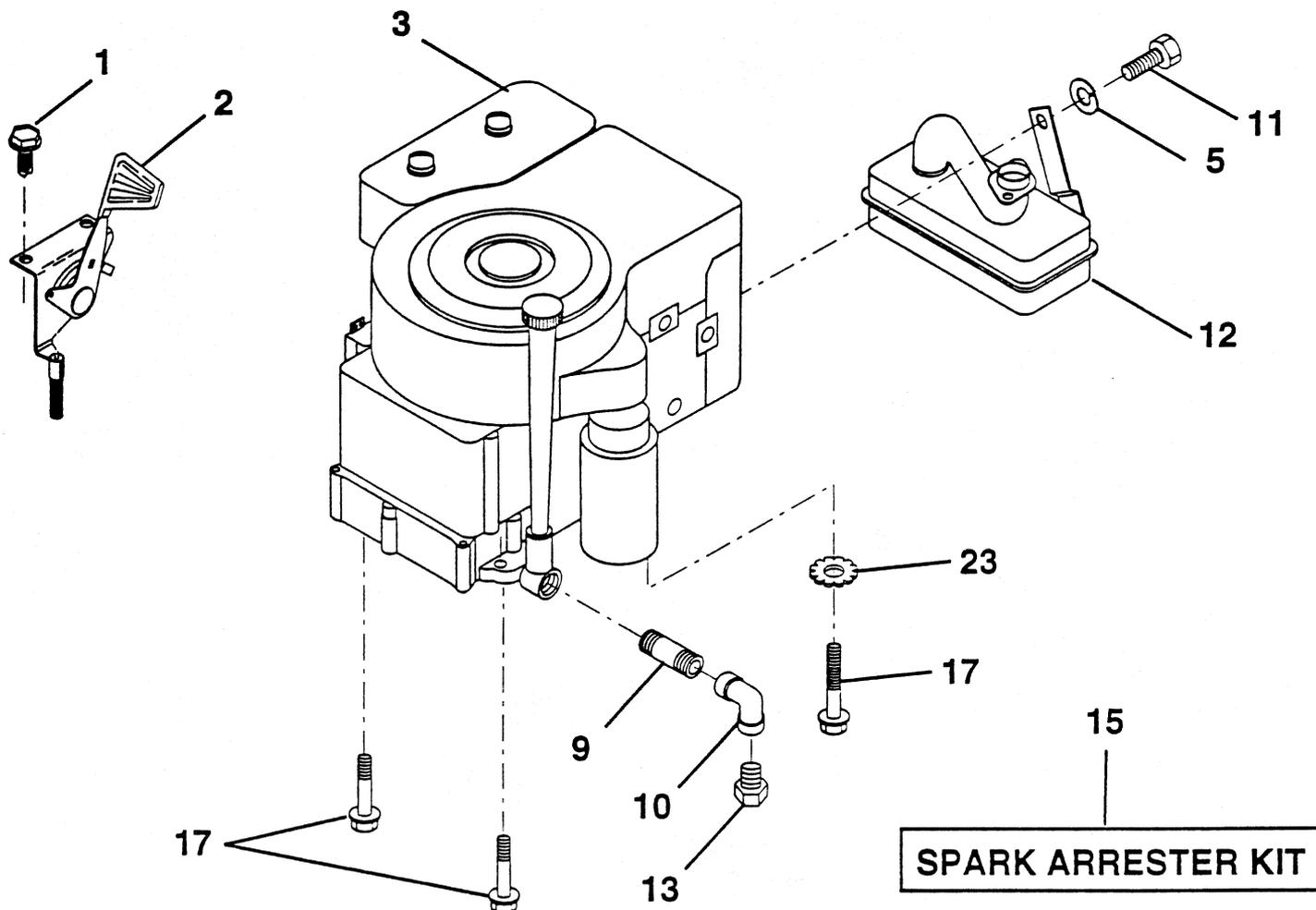
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532071673	Cap, Plunger	15	532123641	Assembly, Brake, Pivot, Arm
2	532123436	Rod, Parking Brake	16	819251816	Washer 25/32 x 1-1/8 x 16 Gauge
3	532123437	Bracket, Parking Brake	17	812000034	Ring, Klip
4	532008156	Cover, Pedal	18	532106888	Spring, Brake Rod
5	532132205	Bracket, Clutch/Brake Pedal, L.H.	19	873350600	Nut, Hex, Jam 3/8-16 UNC
6	876020312	Pin, Cotter 3/32 x 3/4	20	873800600	Locknut, Hex, w/Wsh Ins 3/8-16 UNC
7	819131016	Washer 13/32 x 5/8 x 16 Gauge	21	532140766	Rod, Brake, Rear
8	817490508	Screw, Hex Head, Thd., Roll. 5/16-18 x 1/2	27	532136780	Link, Lift, Rear
9	876020412	Pin, Cotter 1/8 x 3/4	28	532140777	Assembly, Rear Mower Lift
10	819131316	Washer 13/32 x 13/16 x 16 Gauge	29	872110506	Bolt, Carriage 5/16-18 UNC x 3/4
11	532123543	Rod, Brake, Front	30	873510500	Nut, Hex, Keps 5/16-16 UNC
12	532139934	Assembly, Clutch/Brake Pedal	31	532133095	Spring, Counterbalance
13	532123394	Rod, Clutch	32	532133721	Link, Lift Lever
14	532121978	Bracket, Lift Shaft	33	532124670	Retainer Spring

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
ENGINE



KEY NO.	PART NO.	DESCRIPTION
1	817060408	Screw, Hex Head, Thread Cutting 1/4-20 x 1/2
2	532132752	Control, Throttle
3	---	Engine, Kohler, 12.5 HP, Model #PS1454
4	871070512	Screw, Hex Cap Hd. 5/16-18 x 3/4
5	810040500	Washer, Lock, Heavy Helical Spring 5/16
6	532125593	Gasket, Exhaust
9	813280328	Nipple Pipe
10	813200300	Elbow
11	874760508	Bolt, Hex, Fin. 5/16 - 18 x 1/2

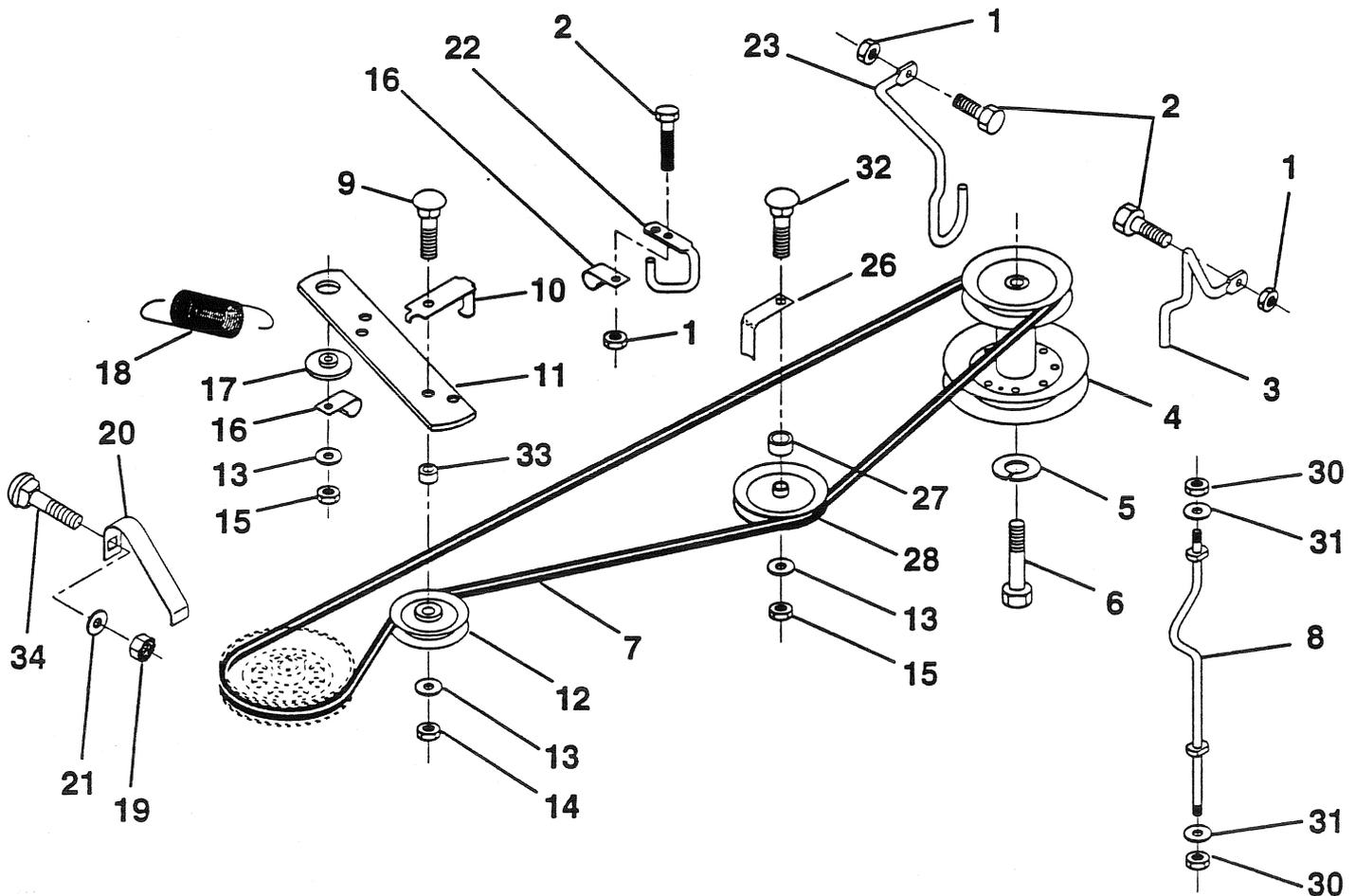
KEY NO.	PART NO.	DESCRIPTION
12	532138149	Muffler
13	----	Oil Drain Plug (Order From Eng Mfg)
15	532137180	Arrester, Spark (Optional Equipment)
17	532125398	Bolt Hex
18	532126636	Keeper, Ground Drive Belt
20	873510600	Nut, Hex, Keps 3/8-16
21	532124996	Clip, Fuel Line
23	811050600	Washer Lock Ext. Tooth 3/8

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
GROUND DRIVE



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	873800500	Nut, Lock Hx w/Ins 5/16-18	16	532126472	Clip Insulator
2	874760512	Bolt, Hex Head 5/16-18 x 3/4	17	532122052	Spacer, Retainer
3	532140917	Keeper, Belt RH Front	18	532131459	Spring, Extension
4	532138029	Pulley, Engine	19	873800500	Nut
5	810040700	Washer, Lock 7/16	20	532140909	Keeper, Belt LH
6	532138887	Bolt, Hex Fin M10 x 1.5 x 75mm	21	819111116	Washer
7	532140910	V-Belt	22	532123404	Keeper Frame Ground Drive Belt
8	532140785	Keeper, Belt RH	23	532142240	Keeper, Belt LH Front
9	872140618	Bolt, RDHD SQ 3/8-16 x 2-1/4	26	532140913	Keeper, Belt
10	532140780	Keeper, Belt, Idler Pulley	27	532140914	Spacer
11	532140911	Arm, Idler	28	532139123	Pulley, V-Idler
12	532123674	Idler, Flat	30	873800500	Nut
13	819131316	Washer 13/32 x 13/16 x 16 Gauge	31	819111216	Washer
14	873930600	Nut, Centerlock 3/8-16	32	872110620	Carriage Bolt
15	873800600	Nut, Hex, Lock Hex w/wsh 3/8-16	33	532000160	Spacer
			34	87211060	Carriage Bolt

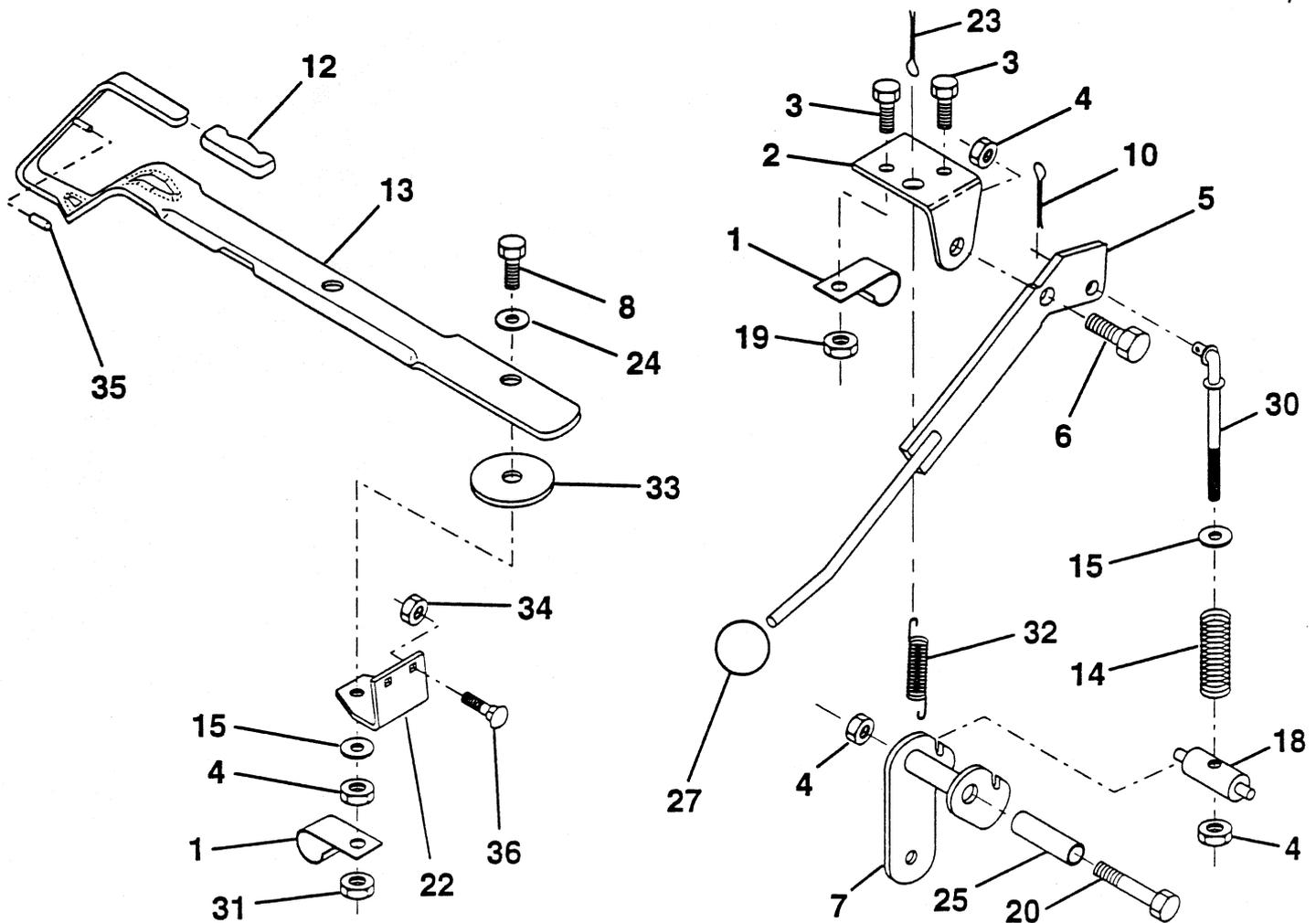
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

MOWER LIFT LEVER



KEY NO.	PART NO.	DESCRIPTION
1	532126470	Clip, Insulated
2	532122018	Bracket, Mower Clutch
3	874780408	Bolt, Hex Head, Fin. 1/4-20 UNC x 1/2 Grade 5
4	873930600	Nut, Centerlock
5	532132552	Assembly, Clutch Lever
6	532106451	Bolt, Shoulder
7	532141435	Assembly, Mower Clutch Arm
8	874930624	Bolt, Hex Head 3/8-16 UNC x 1-1/2
10	876020412	Pin, Cotter 1/8 x 3/4
12	532122027	Handle, Lift Lever
13	532136658	Assembly, Lift Handle
14	532133939	Spring, Compression
15	819131616	Washer 13/32 x 1 x 11 Gauge
18	532135107	Trunnion, Threaded 3/8-16
19	873680400	Nut, Crownlock 1/4-20

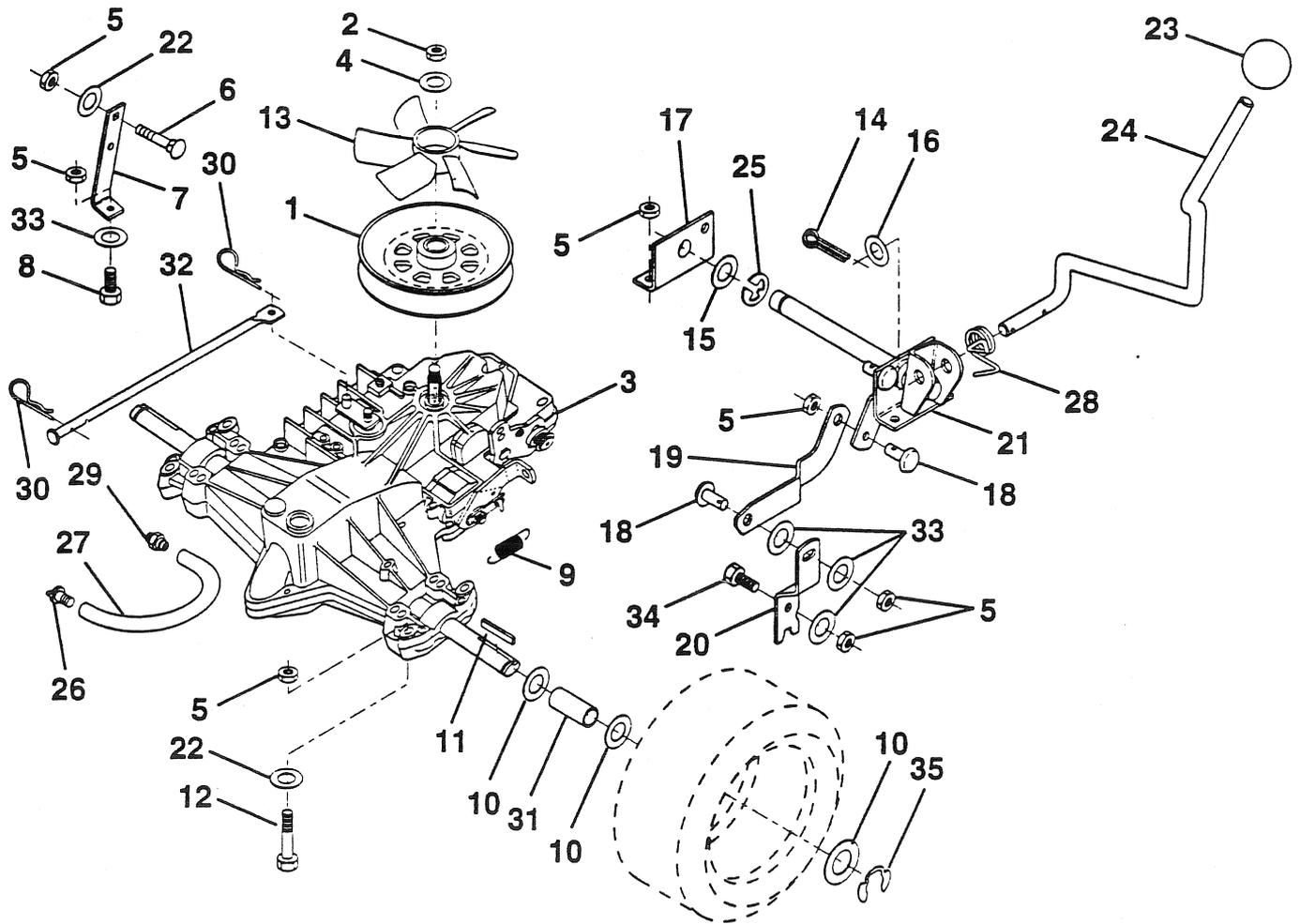
KEY NO.	PART NO.	DESCRIPTION
20	874760644	Bolt, Hex Head, Fin. 3/8-16 UNC x 2-3/4
22	532132561	Bracket, Lift Lever
23	876020312	Pin, Cotter 3/32 x 3/4
24	532007672	Washer 25/64 x 1-1/4 x 12 Gauge
25	532121933	Tube, Spacer
27	532121466	Knob
30	532135039	Rod, Tension, Clutch
31	873800600	Nut Lock Hex w/wsh 3/8 - 16
32	532133435	Spring, Extension, Return
33	532062333	Washer .390 x 1.437 x .074
34	873800500	Nut, Lock Hx w/Ins 5/16-18
35	532133603	Cap, Vinyl, Red
36	872140506	Bolt, Carriage 5/16-18 x 3/4

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
TRANSAXLE



KEY NO.	PART NO.	DESCRIPTION
1	532140779	Pulley
2	532009204	Nut
3	532140607	Transaxle, Hydro 0310-0500
4	819171912	Washer
5	873800500	Nut
6	872140506	Bolt, Carriage
7	532140774	Strap, Torque
8	874760524	Bolt
9	532110422	Spring Brake
10	532121749	Washer 25/32 x 1-1/4 x 16 Gauge
11	532123583	Key, Square
12	874760540	Bolt, Hex Head
13	532140778	Fan, Transaxle, Hydro
14	871620416	Pin, Cotter
15	819212010	Washer
16	819171216	Washer
17	532140763	Support, Shift Handle

KEY NO.	PART NO.	DESCRIPTION
18	532140769	Pivot Pin
19	532140767	Link, Shift
20	532140773	Lever, Shift
21	532140764	Pivot Shaft Assembly
22	819111116	Washer
23	532140845	Knob, Shifter
24	532140765	Rod, Shifter
25	812000002	E-Ring
26	-----	Cap, Vent Hose
27	532142564	Hose, Vent
28	532140772	Spring, Torsion
29	-----	Nipple, Vent Hose
30	532124788	Retainer Spring
31	532121199	Spacer
32	532140912	Actuator, Bypass, Hydro
33	819111216	Washer
34	872110506	Bolt RDHD 5/16 - 18 x 3/4
35	812000001	E-Ring

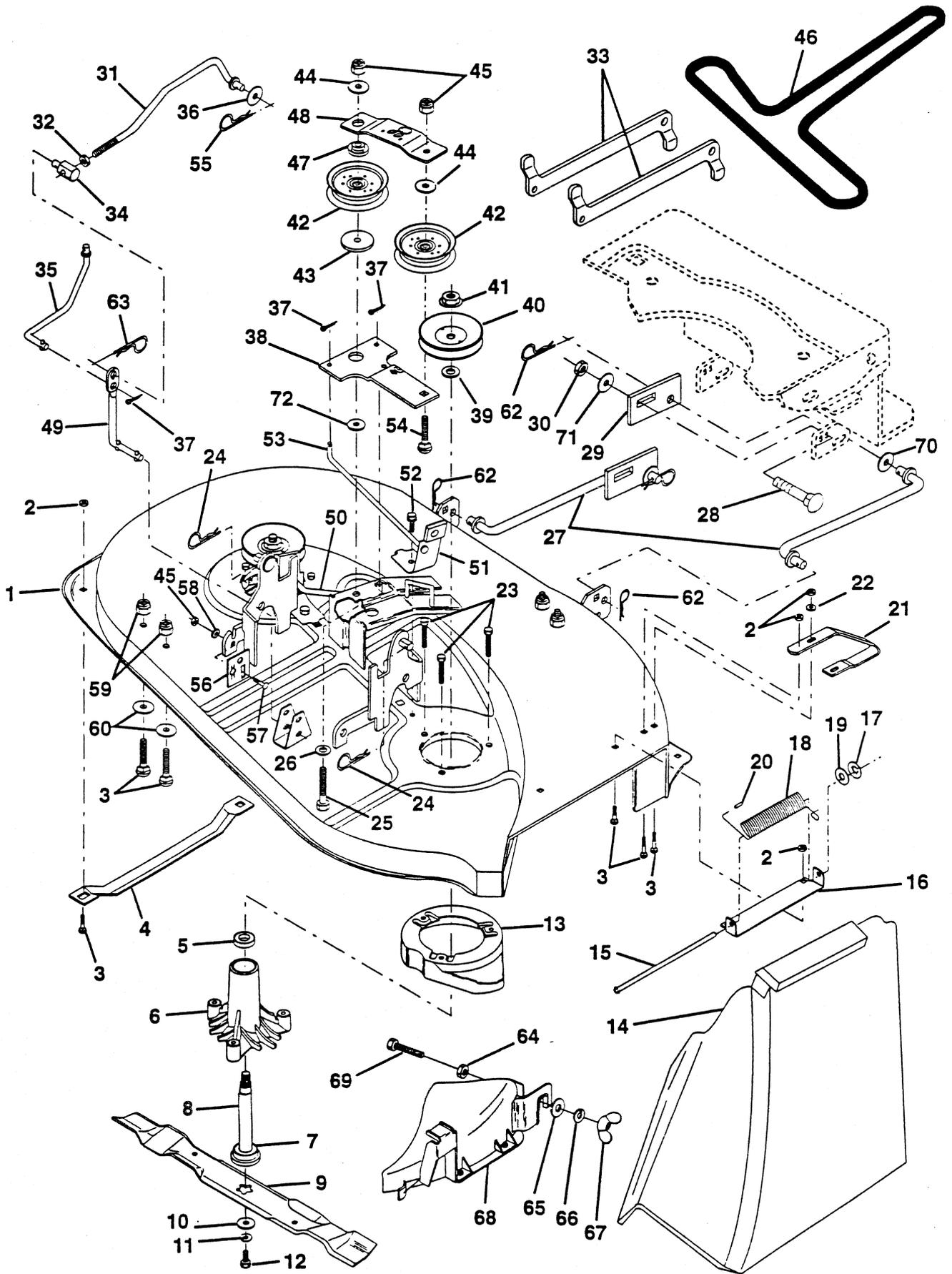
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

MOWER DECK



REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

MOWER DECK

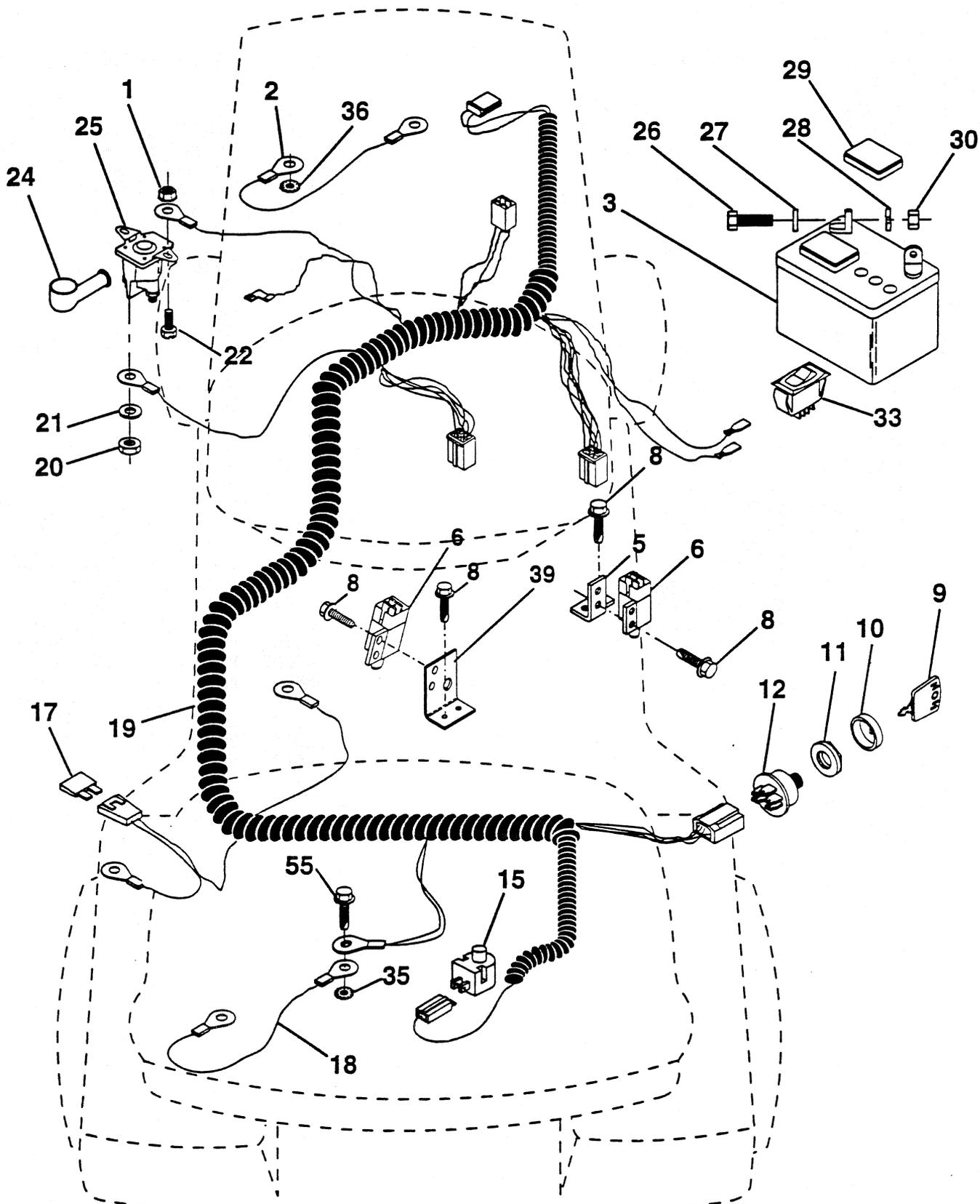
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532142830	Mower Deck Assembly	40	532129206	Pulley, Mandrel
2	873800500	Nut, Lock Hx w/Ins 5/16-18	41	532137266	Nut, Flangelock 9/16
3	872140506	Bolt, Carriage 5/16-18 x 3/4	42	532121316	Pulley, Flat Idler
4	532125074	Runner, L.H.	43	532122052	Spacer, Retainer
5	532110485	Bearing	44	819131612	Washer 13/32 x 1 x 12 Gauge
6	532128774	Housing, Mandrel	45	873680600	Nut, Crownlock 3/8-16
7	532129895	Bearing	46	532131290	Belt
8	532137645	Shaft and Bearing Assembly, Mandrel (Includes Key Number 7)	47	532133502	Spacer, Idler Arm
9	532134148	Blade	48	532133503	Stiffener, Idler Arm
10	532140296	Washer, Hardened	49	532133551	Rod, Pivot
11	810030600	Washer, Lock 3/8	50	532131289	Rod, Brake, L.H.
12	532850857	Bolt, Hex 3/8-24 x 1-1/4 Grade 8	51	532130840	Brake Assembly
13	532136929	Stripper, Mower, Vented	52	817490512	Screw, Hex Washer Head, Thd., Roll. 5/16-18 x 3/4
14	532106736	Shield, Deflector	53	532131288	Rod, Brake, R.H.
15	532106735	Rod, Hinge	54	872110614	Bolt, Carriage 3/8-16 x 1-3/4 Grade 5
16	532137607	Bracket Assembly, Deflector	55	532124961	Spring, Retainer
17	532110452	Pushnut	56	532136782	Adjustment Plate, Rear Link, L.H.
18	532123713	Spring, Deflector	57	872140608	Bolt, Carriage 3/8-16 x 1
19	819111016	Washer 11/32 x 5/8 x 16 Gauge	58	819131212	Washer 13/32 x 3/4 x 12 Gauge
20	532105304	Cap, Sleeve	59	873800500	Locknut, Hex, with Washer Insert 5/16-18
21	532128772	Runner, R.H.	60	819111112	Washer 11/32 x 11/16 x 12 Gauge
22	819111216	Washer 11/32 x 3/4 x 16 Gauge	62	532124660	Retainer Spring
23	817580520	Bolt 5/16-18 x 1.25	63	532124788	Retainer Spring
24	532124670	Retainer, Spring	64	873930600	Nut, Centerlock 3/8 - 16
25	874760620	Bolt, Fin Hex 3/8-16 x 1-1/4	65	819132016	Washer 13/32 x 1-1/4 x 16 Ga.
26	819131612	Washer 13/32 x 1 x 12 Gauge	66	8100040600	Washer Lock 3/8
27	532139756	Link Assembly, Front	67	532135651	Nut Wing
28	872140608	Bolt RDHD SQNK 3/8 - 16 x 1	68	532132803	Cover Asm Mulching
29	532139757	Plate Slide Link	69	874930620	Bolt 3/8 - 16 x 1-1/4
30	873800600	Nut, Lock Hex w/washer 3/8 - 16	70	819162016	Washer 1/2 x 1-1/4 x 16 Ga.
31	532140915	Clutch Rod, Primary	71	819131610	Washer Flat 13/32 x 1 x 10 Ga.
32	873350600	Nut, Hex, Jam 3/8-16	72	532133943	Washer Hardened
33	532132559	Arm, Suspension, Rear	--	532130794	Mandrel Assembly (Includes Key Numbers 5-8, 10-12, 39 and 41)
34	532133604	Trunnion 3/8-16	--	532141877	Mower Deck, Complete (Std. Deck Order Mulcher Plate Components Separately Key Nos. 64-69)
35	532132554	Clutch Rod, Secondary			
36	819131316	Washer 13/32 x 13/16 x 16 Gauge			
37	876020312	Pin, Cotter 3/32 x 3/4			
38	532133840	Idler Arm			
39	532129963	Washer .150 Thick			

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
ELECTRICAL



REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

ELECTRICAL

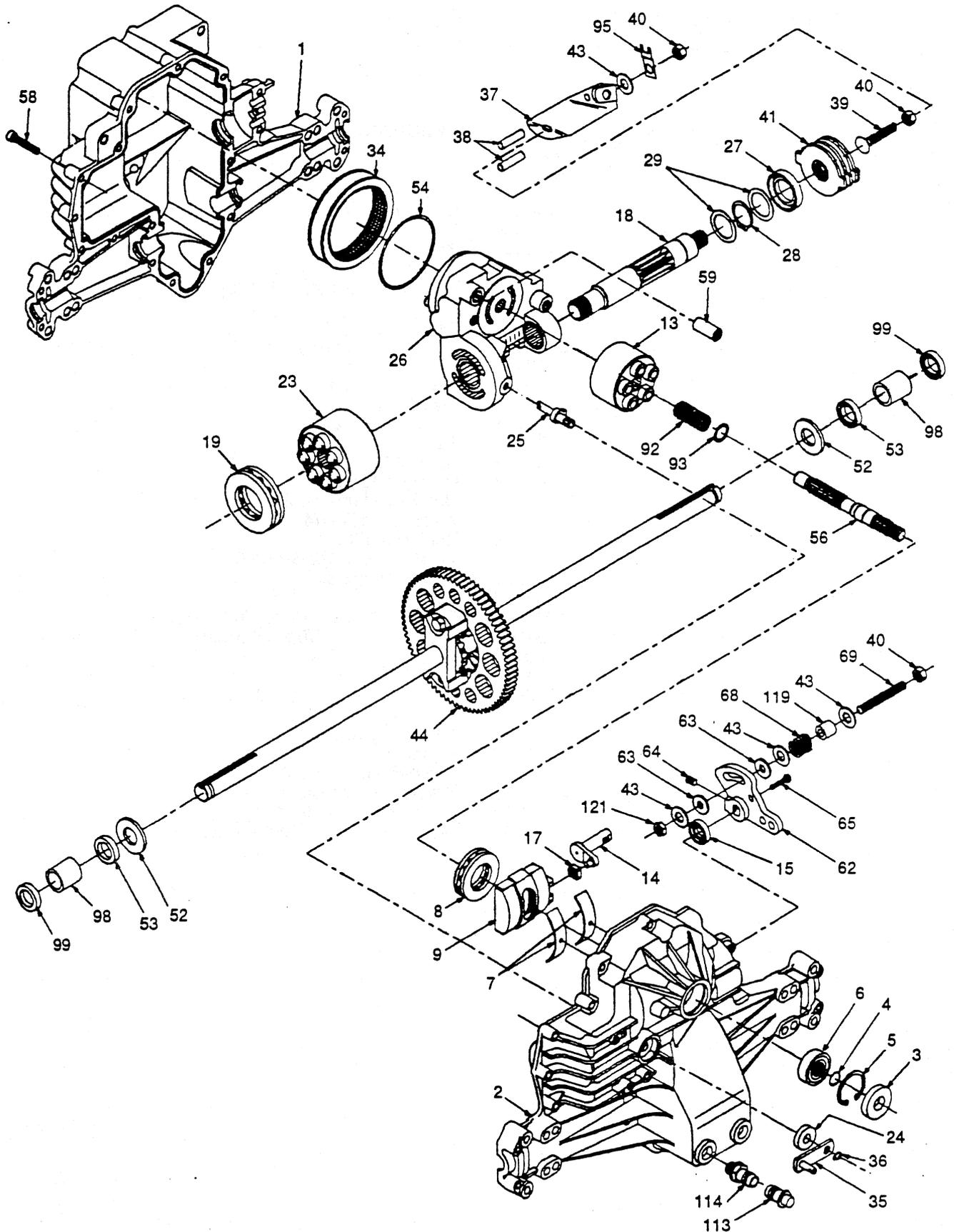
KEY NO.	PART NO.	DESCRIPTION
1	873510400	Nut, Hex, Keps 1/4-20
2	532108423	Assembly, Cable
3	532133909	Battery
5	532108236	Bracket, Switch
6	532109553	Switch, Interlock, 4 Terminal
8	817021008	Screw, Hex Head, Self-Tapping #10-24 x 1/2
9	532140401	Key, Molded
10	532141226	Cover, Ignition Key
11	532140400	Nut, Ignition
12	532140399	Switch, Ignition
14	532124756	Tie, Cable
15	532121305	Switch, Plunger
17	532108824	Fuse
18	532128353	Assembly, Cable
19	532143131	Harness, Ignition
20	873350400	Nut, Hex, Jam 1/4-20
21	810090400	Washer, Lock 1/4
22	874780408	Bolt, Hex, Fin. 1/4-20 UNC x 1/2 Grade 5
24	532131563	Cover, Terminal
25	532138406	Solenoid
26	874760412	Bolt, Hex Head 1/4-20 UNC x 3/4
27	819091016	Washer 9/32 x 5/8 x 16 Gauge
28	810040400	Washer, Lock 1/4
29	532121264	Cap, Battery
30	873220400	Nut, Hex, Fin. 1/4-20 UNC
31	532004152	Bulb, Light
32	532131078	Harness, Headlight
33	532110712	Switch, Light
36	811150400	Washer, Lock, Internal Tooth 1/4
39	532141735	Bracket Switch Clutch
55	817490508	Screw Thdrol 5/16 - 18 x 1/2
56	811050500	Washer Lock Ext. Tooth 5/16

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
TRANSAXLE HYDROGEAR, MODEL NO. 319-0500



REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22
TRANSAXLE HYDROGEAR, MODEL NO. 319-0500

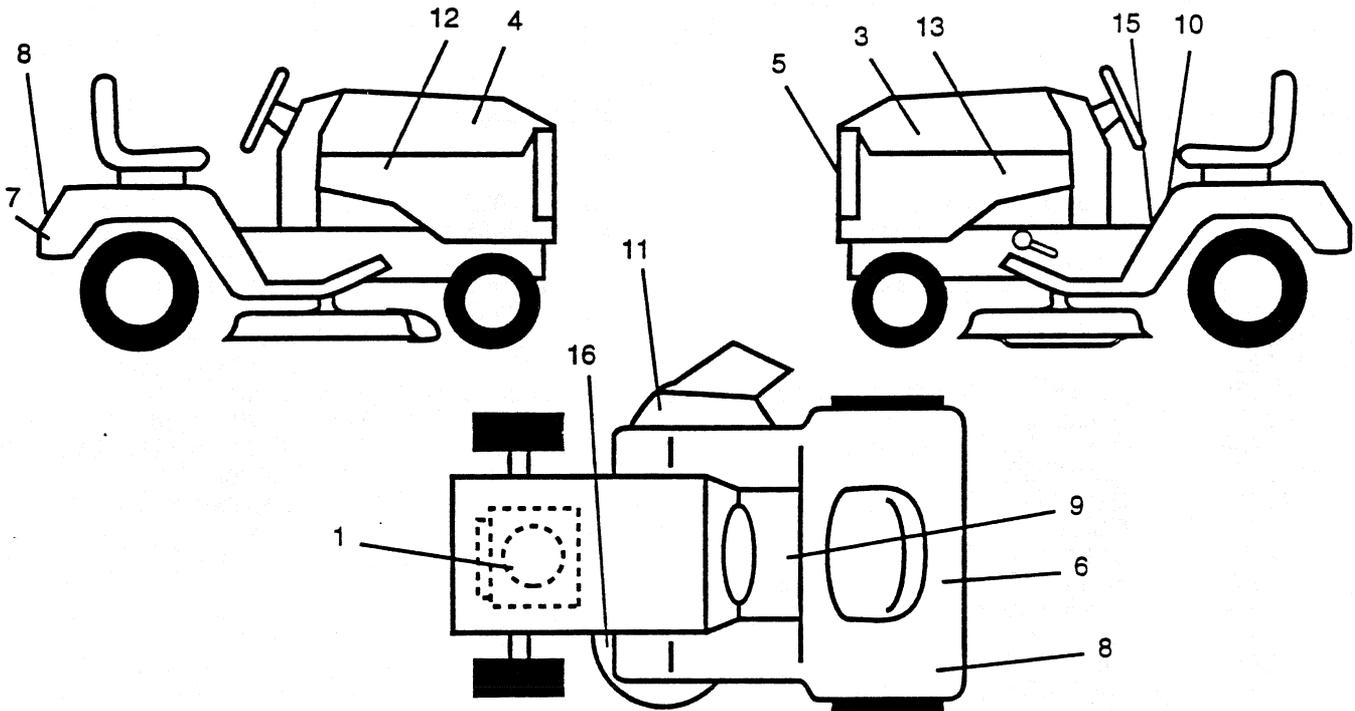
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	142986	Housing, Lower	40	142957	Locknut, Hex 5/16-24 UNJC
2	142987	Assembly, Upper Housing	41	142958	Brake Rotor/Stator Kit
3	142932	Seal, Lip	43	142884	Washer 7/16 x 7/8 x .060
4	142928	Ring, Wire Retaining	44	142990	Differential Assembly
5	142933	Ring, Retaining	52	142991	Washer 3/4 x 1.5 x .13
6	142934	Bearing, Shaft Ball	53	142961	Seal .75 x 1.25 x .250
7	142935	Bearing, Cradle	54	142962	O-Ring .103 x 2.987 ID
8	142936	Bearing, Thrust 30 x 52 x 13	56	142963	Shaft, Input
9	142937	Swashplate, Variable	58	142964	Bolt 1/4-20 x 1.38
13	142938	Block, Cylinder Assembly	59	142965	Pin .5 OD x .43 ID x .750
14	142939	Arm, Trunnion	62	142966	Arm, Control
15	142940	Seal, Lip	63	142967	Puck, Dampener
17	142941	Guide, Slot	64	142920	Set Screw
18	142988	Shaft, Motor	65	142968	Bolt #8-32 x .875
19	142943	Bearing, Thrust 42 x 68 x 16	68	142969	Spring
23	142944	Block, Cylinder Assembly	69	142970	Socket Set Screw
24	142945	Seal, Lip 10 x 25 x 7	92	142977	Spring, Block
25	142946	Actuator, Bypass	93	142978	Washer, Block Thrust
26	142947	Center Section Assembly Kit	95	142979	Strap, Locking
27	142948	Seal, Lip 26 x 42 x 8	98	142993	Sleeve Bearing
28	142949	Ring, Retaining	99	142976	Seal, Wiper
29	142950	Washer 26 x 35 x 1	113	142917	Cap, Vent Assembly
34	142951	Oil Filter Element	114	142918	Fitting, O-Ring Assembly
35	142952	Arm, Bypass	119	142980	Spacer
36	142953	Ring, Retaining	121	142981	Jam Nut 5/16-24
37	142954	Arm, Actuating			
38	142955	Pin, Actuating			
39	142956	Bolt 5/16-24 x 1-3/4			

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

REPAIR PARTS

12.5 HP 38" TRACTOR-MODEL NO. LRH125 (HN125HR38A), PRODUCT NO. 954 00 06-22

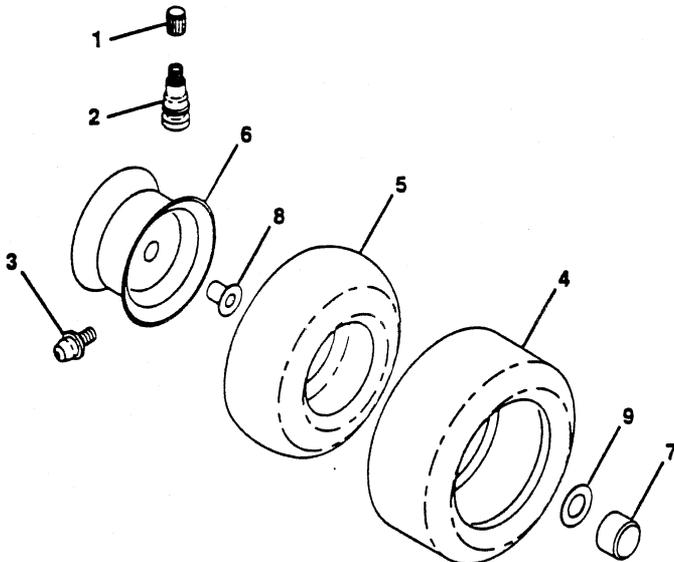
DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532140013	Decal, Engine, HP	10	532133796	Decal, Fender, Caution
3	532140206	Decal, Hood, L.H.	11	532137259	Decal, Warning, Multi-Language
4	532140205	Decal, Hood, R.H.	12	532140848	Decal, Hood, Insert, R.H.
5	532140213	Decal, Logo, Grill	13	532140849	Decal, Hood, Insert, L.H.
6	532121549	Decal, Caution Battery	15	532138269	Decal, Instruction, Operating
7	532141484	Decal, Drawbar	16	532136832	Decal, V-Belt Schematic
8	532131582	Decal, Logo, Fender	--	532141684	Manual, Owner's (Eng.)
9	532142336	Decal, Cold Start	--	532141683	Manual, Owner's (Fre.)

Available accessories not included with tractor:
 -- CER 38 Grass Catcher

WHEELS & TIRES

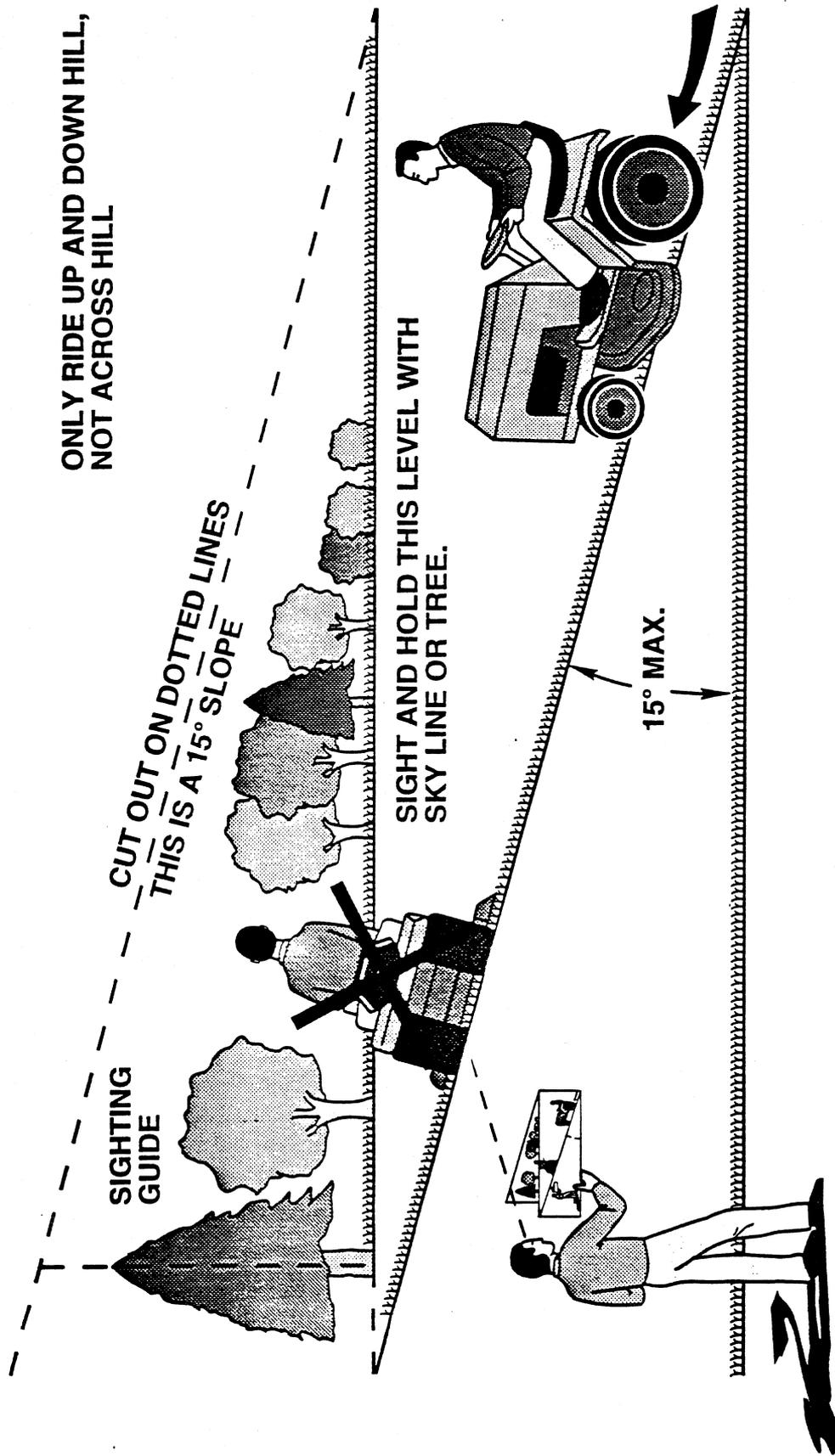


KEY NO.	PART NO.	DESCRIPTION
1	532059192	Cap, Valve Stem
2	532065139	Stem, Valve
3	532124957	Fitting, Grease (Front Wheels Only)
4	532137422	Tire, Front
	532132703	Tire, Rear
5	532059904	Tube, Front Tire
	532008134	Tube, Rear Tire (Optional - Service Item Only)
6	532142537	Rim, Front
	532140453	Rim, Rear
7	532104757	Cap Hub Axle
8	532124959	Bearing Flange
9	532121748	Washer 25/32 x 1-5/8 x 16 Gauge

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

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.



WARRANTY STATEMENT

Effective May 1, 1992

SECTION 1: LIMITED WARRANTY

Husqvarna Forest & Garden Company ("Husqvarna") warrants Husqvarna product to the original purchaser to be free from defective material and workmanship from the date of purchase for the "Warranty Period" here stated dependent upon the type of product use. Warranty period is as follows for products listed:

5 Year Warranty: Plastic walk behind mower decks for noncommercial, noninstitutional or nonincome producing use.

2 Year Warranty: Riding lawn mowers, yard and garden tractors, walk behind mowers, tillers and attachments for noncommercial, noninstitutional or nonincome producing use. Ignition coils or modules on the chain saws, clearing saws and trimmers.

1 Year Warranty: Chain saws, clearing saws, trimmers, blowers and batteries for noncommercial, noninstitutional or nonincome producing use.

90 Day Warranty: Any Husqvarna product used for rental, commercial, professional, or income producing use.

30 Day Warranty: Husqvarna professional bow bars.

30 Day Replacement Part Warranty: Unless otherwise stated, replacement parts are warranted for 30 days from date of purchase.

SECTION 2: HUSQVARNA'S OBLIGATIONS UNDER THE WARRANTY

Husqvarna will remedy defects in material and workmanship during the warranty period by repairing or replacing, at Husqvarna's option, the defective component without charge for parts or labor.

SECTION 3: ITEMS NOT COVERED BY THIS WARRANTY

The following items are not covered by this warranty:

- (1) Normal customer maintenance items (i.e., belts, blades, blade adapters, bulbs, filters, guide bars, lubricants, rewind springs, saw chain, spark plugs, starter ropes and lines).
- (2) Normal wear, normal adjustment, standard hardware or items worn through regular use.
- (3) Natural discoloration of material due to ultraviolet light.
- (4) The replacement or maintenance of worn items.
- (5) Briggs & Stratton, Kawasaki and Kohler engines, including starters, generators, alternators and accessories. These items are covered by the engine manufacturer's warranty as stated with the product information supplied at the time of purchase. All claims for specified engines, starters, generators, alternators and accessories should be sent to the appropriate manufacturer.
- (6) Agri-Fab, Folex, and Tecumseh-Perless drive systems. These items are covered by the drive system manufacturer's warranty as stated with the product information supplied at the time of purchase. All claims for specified drive systems should be sent to the appropriate manufacturer.

SECTION 4: EXCEPTIONS AND LIMITATIONS

This warranty shall be inapplicable to defects resulting from the following:

- (1) Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect storage habits.

- (2) Failure to operate or maintain the unit in accordance with the Owner's/Operator's manual or instruction sheet furnished by Husqvarna.
- (3) Alterations or modifications that affect the unit's performance, operation, safety, durability, change its intended use, or cause failure of compliance with current regulatory standards or applicable federal, state or local laws.
- (4) Use of parts or accessories which are not recommended by Husqvarna Forest & Garden Company.
- (5) Additional damage to parts or components due to continued use occurring after any of the above.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. HUSQVARNA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.

Some states do not allow the exclusion of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SECTION 5: CUSTOMER RESPONSIBILITIES

The customer must exhibit reasonable care, maintenance, operation, storage and general upkeep as written in the maintenance section of the Owner's/Operator's manual. Should an operational problem or failure occur the product should not be used, but delivered as is to an authorized Husqvarna dealer for evaluation. Proof of purchase, as explained in section 6, rests solely with the customer.

SECTION 6: PROCEDURE TO OBTAIN WARRANTY CONSIDERATION

It is the Owner's and Dealer's responsibility to make certain that the Warranty Registration Card is properly filled out and mailed to Husqvarna Forest & Garden Company. This card should be mailed within ten (10) days from the date of purchase in order to validate the warranty and to provide post-sale service.

Proof of purchase must be presented to the authorized Husqvarna dealer in order to obtain warranty service. This receipt must include date purchased, model number, serial number, and complete name and address of the selling dealer.

To obtain the benefit of this warranty, the product believed to be defective must be delivered in a timely manner, within thirty (30) days from date of operational problem or failure, and during the warranty period, to any authorized Husqvarna dealer. The product must be delivered to the dealer, at the owner's expense. An authorized Husqvarna dealer can be normally located through the "Yellow Pages" of the local telephone directory.

HUSQVARNA FOREST & GARDEN CO.

**9006-J PERIMETER WOODS DRIVE
CHARLOTTE, NORTH CAROLINA 28216**

530-0683-91-2-04/21/92

954 00 06-22

Husqvarna
532141684 12.06.93

Printed in U.S.A.