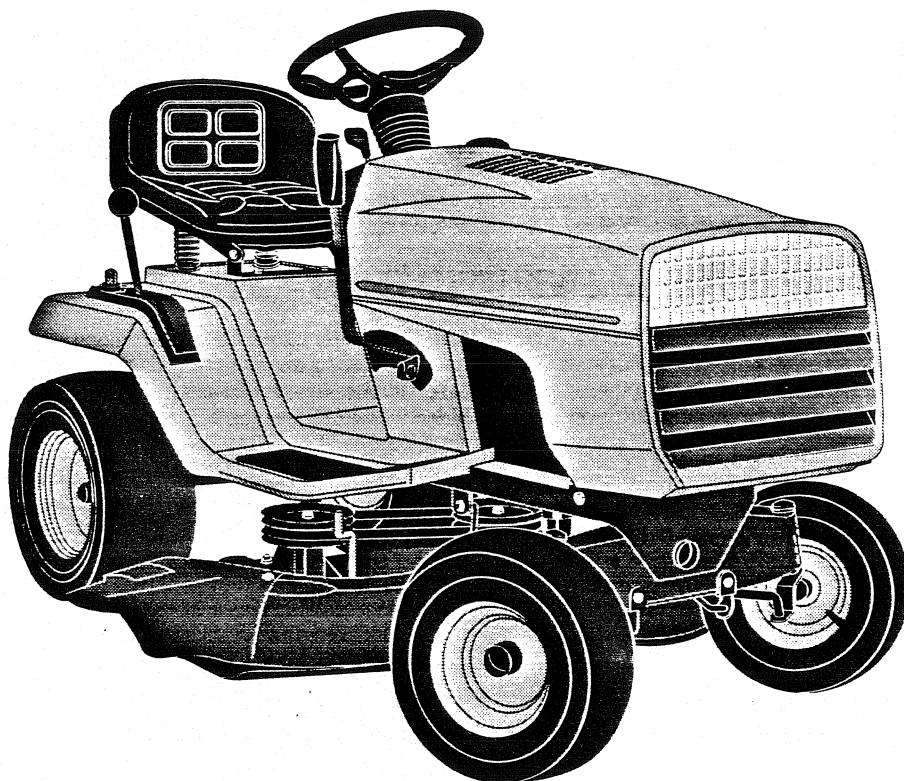




LR12

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.

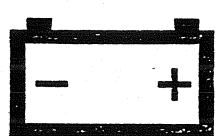
CONGRATULATIONS on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance. <https://truckmanualshub.com/>

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 tractor. Learn and understand their meaning.



BATTERY



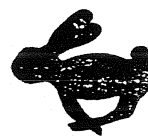
CAUTION



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



CLUTCH



LIGHTS ON



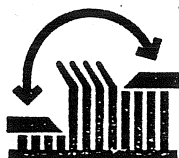
LIGHTS OFF



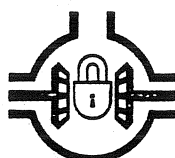
FUEL



CHOKE



MOWER HEIGHT



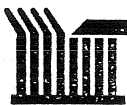
DIFFERENTIAL
LOCK



LOCKED



UNLOCKED



MOWER LIFT



REVERSE



NEUTRAL



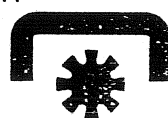
HIGH



LOW



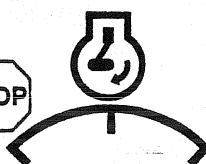
ATTACHMENT
CLUTCH ENGAGED



ATTACHMENT
CLUTCH DISENGAGED



PARKING BRAKE



IGNITION

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

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

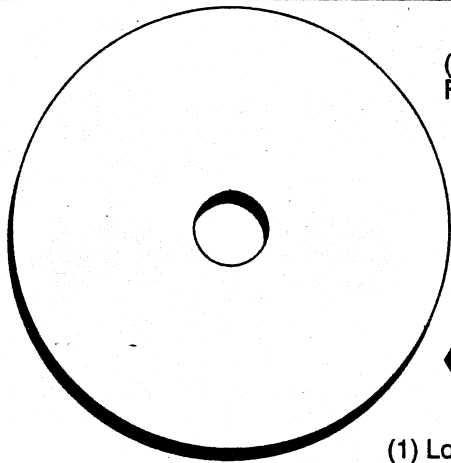
TABLE OF CONTENTS

SAFETY RULES	2
ASSEMBLY	5-7
OPERATION	8-12
CUSTOMER RESPONSIBILITIES	13-15

SERVICE AND ADJUSTMENTS	16-20
STORAGE	21
SCHEMATIC	25
TROUBLE SHOOTING	22-23

CONTENTS OF HARDWARE PACK

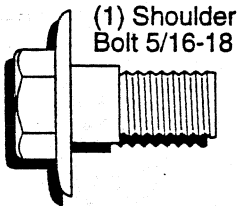
Parts Bag contents shown full size



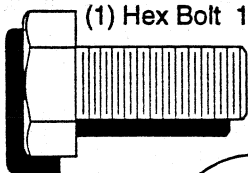
(1) Large Flat Washer



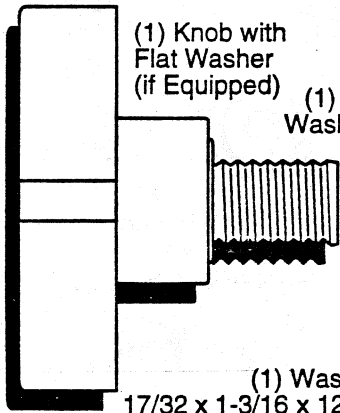
(1) Locknut 3/8-24



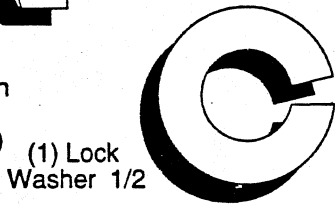
(1) Shoulder Bolt 5/16-18



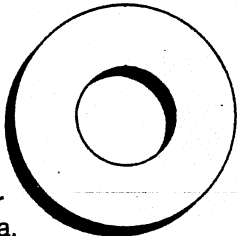
(1) Hex Bolt 1/2-13 x 1



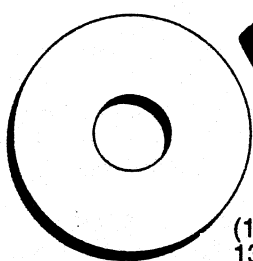
(1) Knob with Flat Washer (if Equipped)



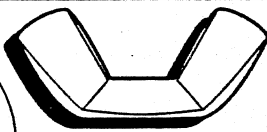
(1) Lock Washer 1/2



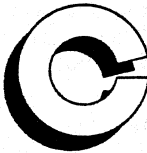
(1) Washer 17/32 x 1-3/16 x 12 Ga.



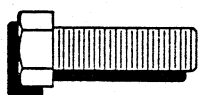
(1) Washer 13/32 x 1-1/4 x 16 Gauge



(1) Wing Nut 3/8



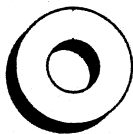
(1) Lock Washer 3/8



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



(2) Hex Nuts 1/4-20

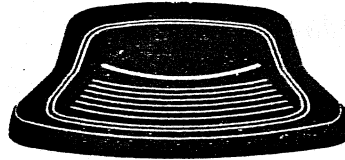


(2) Washer 9/32 x 5/8 x 16 Ga.

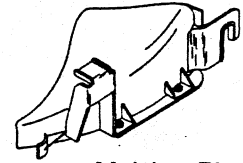
(2) Lock Washers 1/4



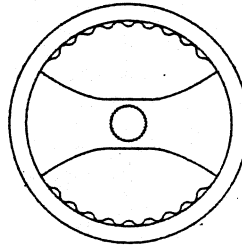
Parts packed separately in carton



Seat



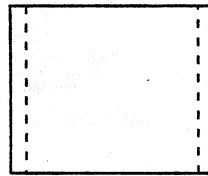
Mulcher Plate



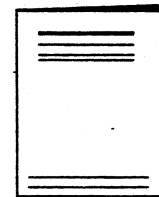
Steering Wheel



Steering Sleeve

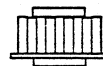


Parts Bag

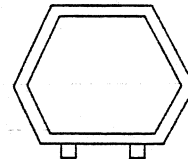


Owner's Manual

Parts bag contents not shown full size



Steering Wheel Adapter



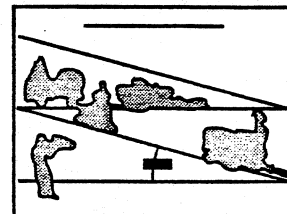
Steering Wheel Insert



Steering Clip



(2) Keys



Slope Sheet

ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- | | |
|--------------------|---------------------|
| (1) 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. 1)

- 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. 2)

- 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.

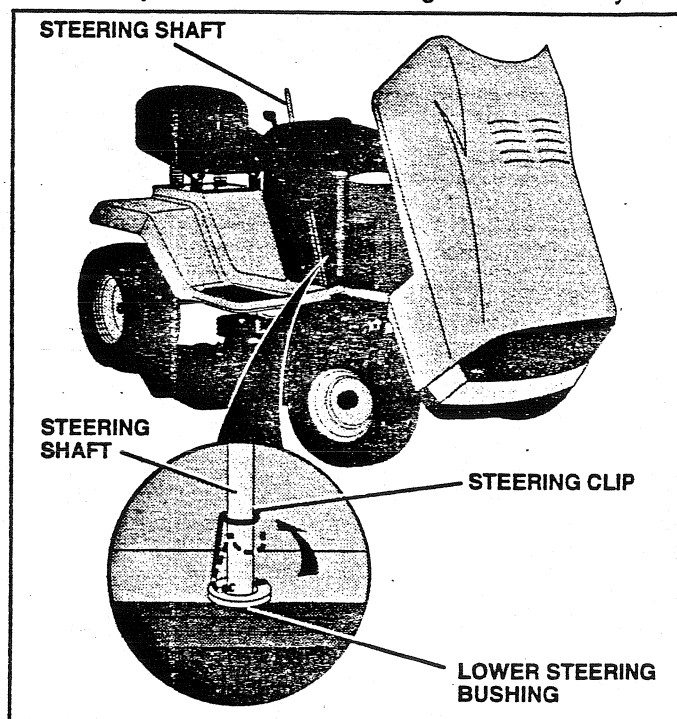


FIG. 1

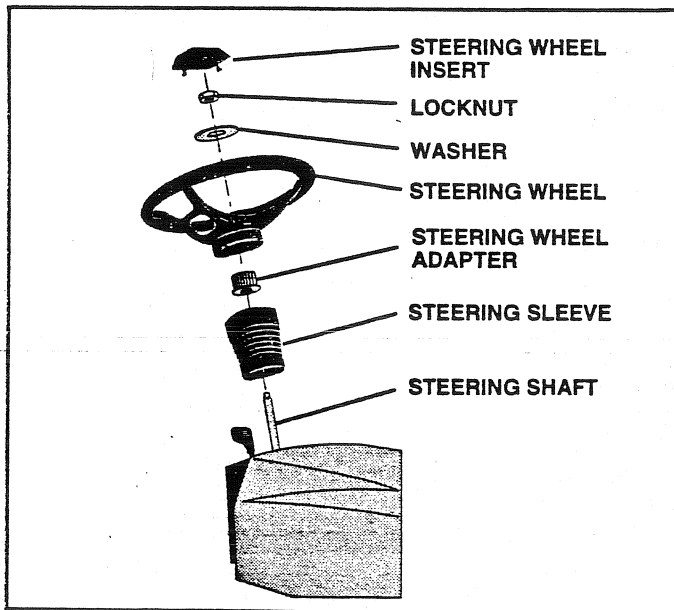


FIG. 2

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

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

CONNECT BATTERY (See Figs. 3 and 4)



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

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

- Remove cardboard packing from seat pan and lift seat pan to raised position.
- Open battery box door.
- Remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close battery box door.

Open battery box door for:

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

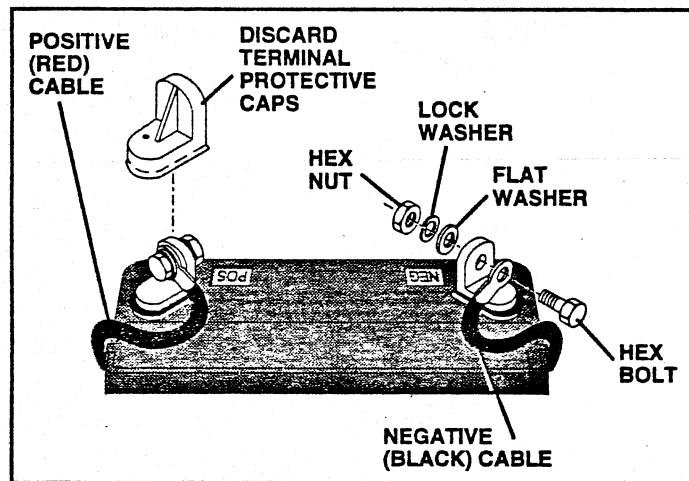


FIG. 3

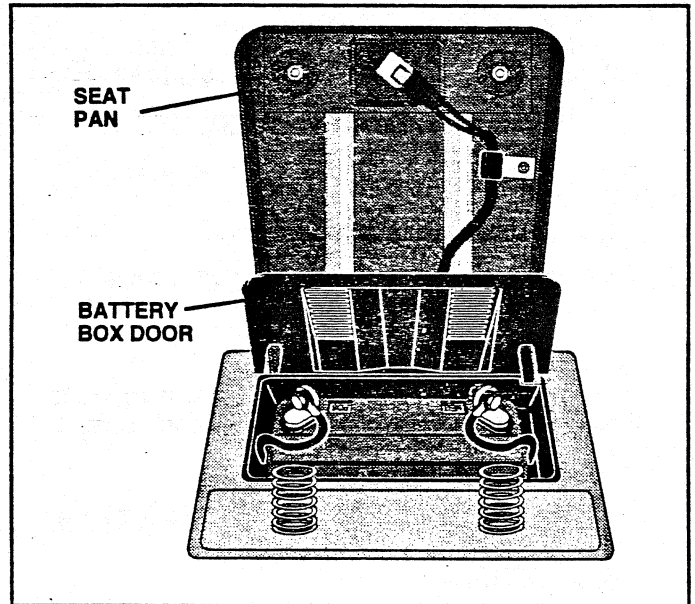


FIG. 4

INSTALL SEAT (See Fig. 5)

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. 8).
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment bolt or knob securely.

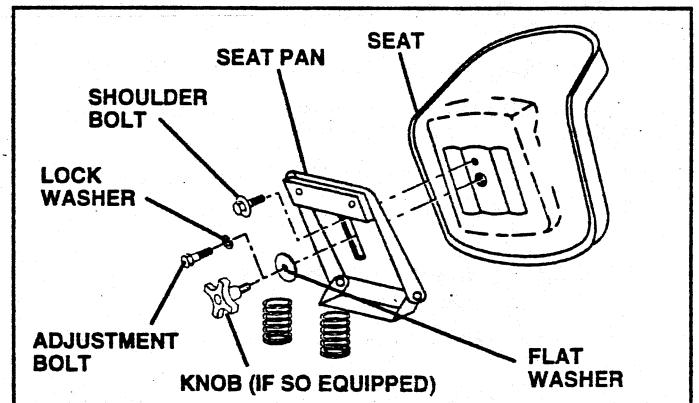


FIG. 5

CHECK TIRE PRESSURE

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

- Reduce tire pressure to 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.

INSTALL MULCHER PLATE (See Figs. 6A and 6B)



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.

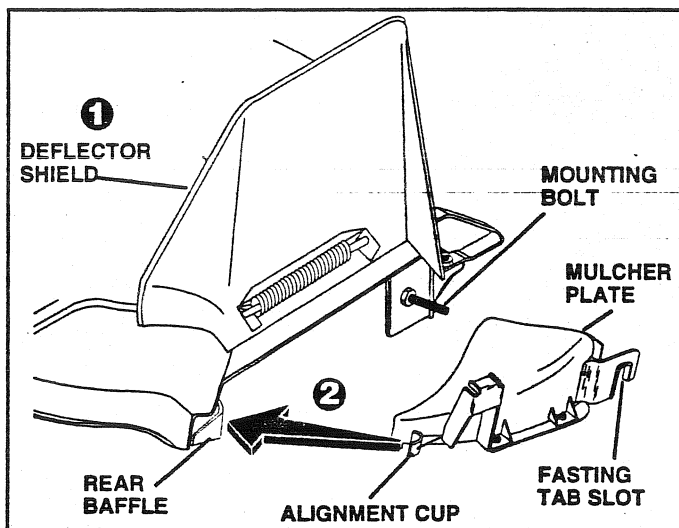


FIG. 6A

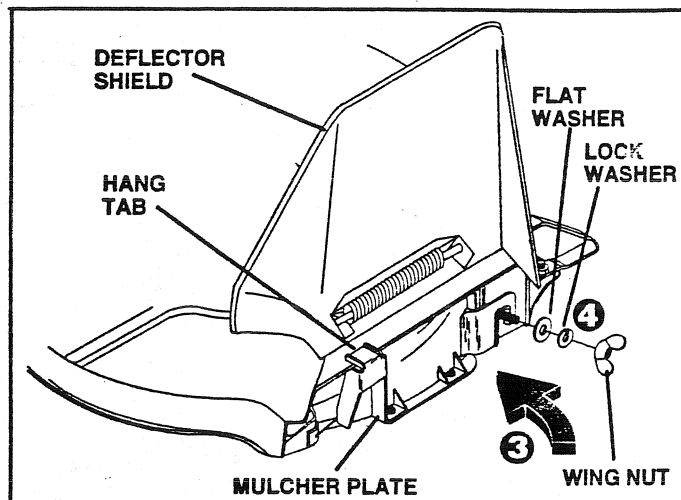


FIG. 6B

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: If discharging or bagging results are unsatisfactory with mulcher blades on mower, remove the mulcher blades and install high performance discharging blades, which are available at an authorized service center/department. (See MOWER in the Repair Parts section of this manual).

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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.

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL & SAFETY RULES BEFORE OPERATING YOUR TRACTOR.

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

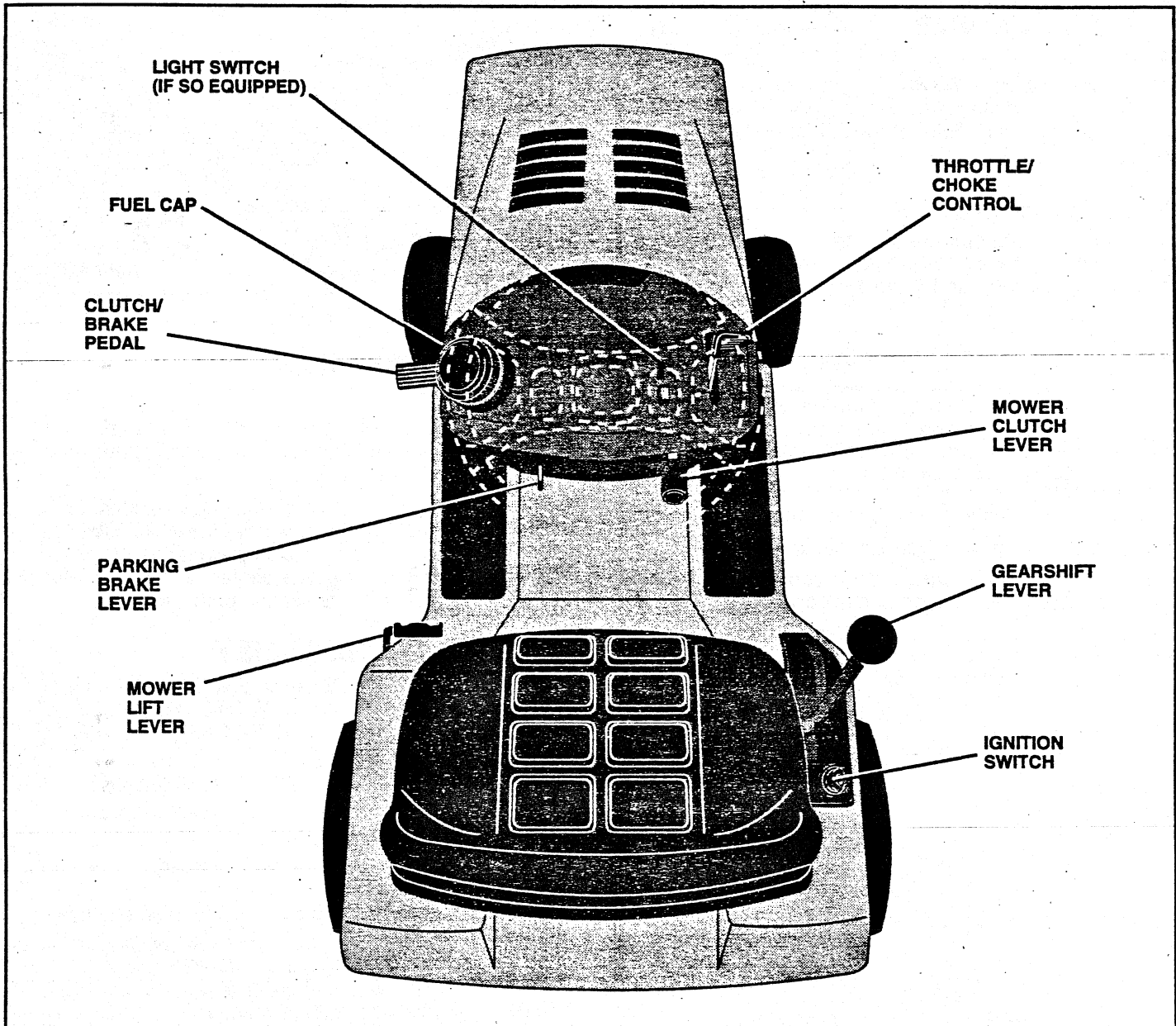


FIG. 7

Your tractor conforms 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.

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

GEARSHIFT LEVER: Selects the speed and direction of tractor.

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

MOWER CLUTCH LEVER: Used to engage the mower blades.

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

OPERATION



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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 8)

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. 8 and 9)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

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

ENGINE -

- Move throttle control to slow (🚗) position.

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

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

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



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

to use throttle control (See Fig. 9)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Figs. 8 and 9)

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

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

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

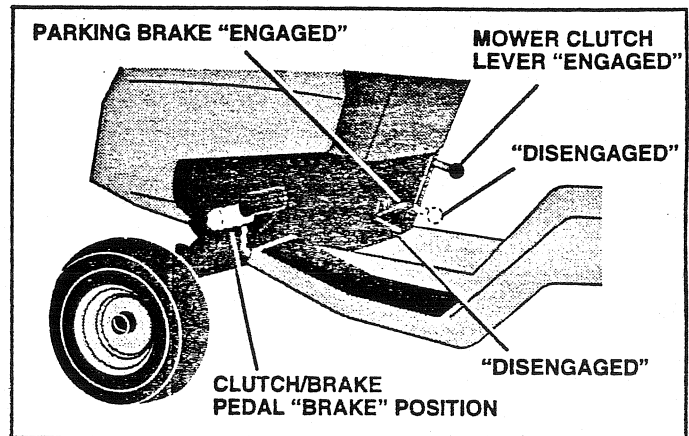


FIG. 8

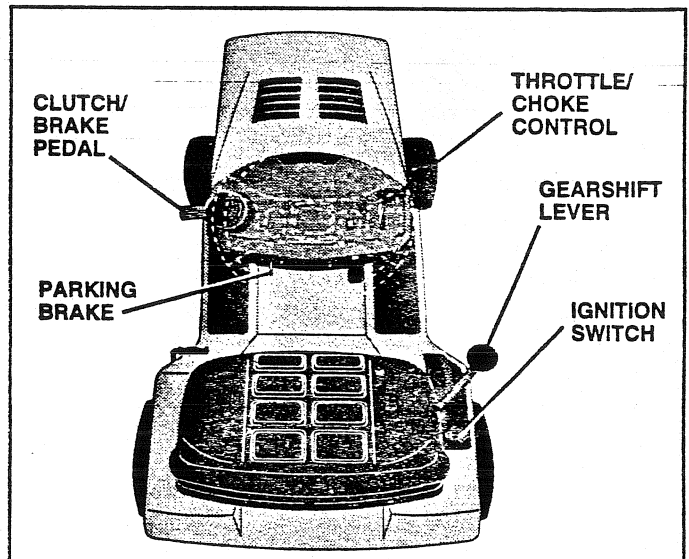


FIG. 9

TO USE THROTTLE CONTROL (See Fig. 9)

Always operate engine at full throttle.

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 10)

The position of the mower 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.

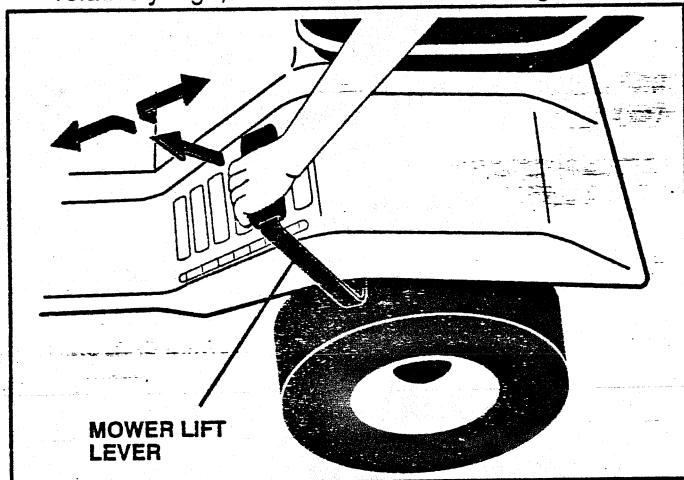


FIG. 10

TO OPERATE MOWER (See Figs. 10 and 11)

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.

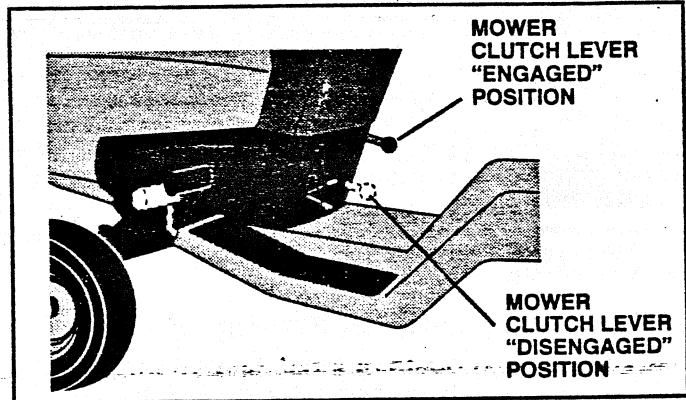


FIG. 11

TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

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

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



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

OPERATION

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 9)

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

ADD GASOLINE

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

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

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



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

TO START ENGINE (See Fig. 7)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control lever to choke (| \ |) position for cold engine start. For warm engine start, move throttle control to fast (↻) 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 (↻) position, wait a few minutes and try again.
- When engine starts, move throttle control to desired position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

MOWING TIPS

- 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 tractor. 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.

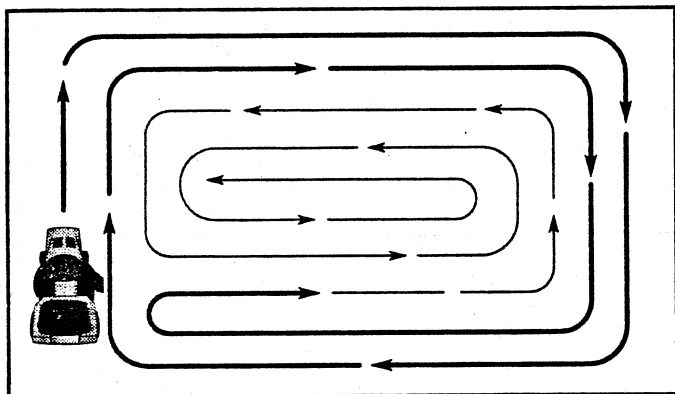


FIG. 12

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. 13). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

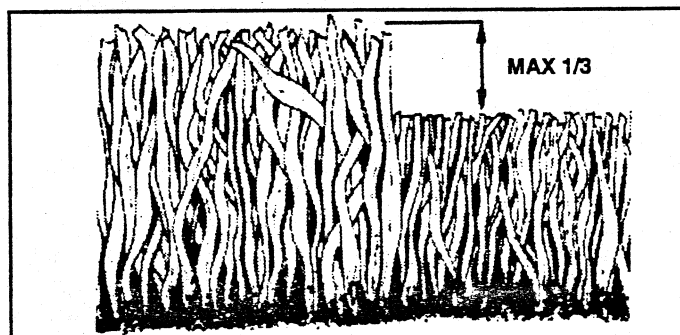


FIG. 13

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

- 1 - Change more often when operating under a heavy load or in high ambient temperatures.
 2 - Service more often when operating in dirty or dusty conditions.
 3 - If equipped with oil filter, change oil every 50 hours.
 4 - Replace blades more often when mowing in sandy soil.

- 5 - If equipped with adjustable system.
 6 - Not required if equipped with maintenance-free battery.
 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum.
 Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

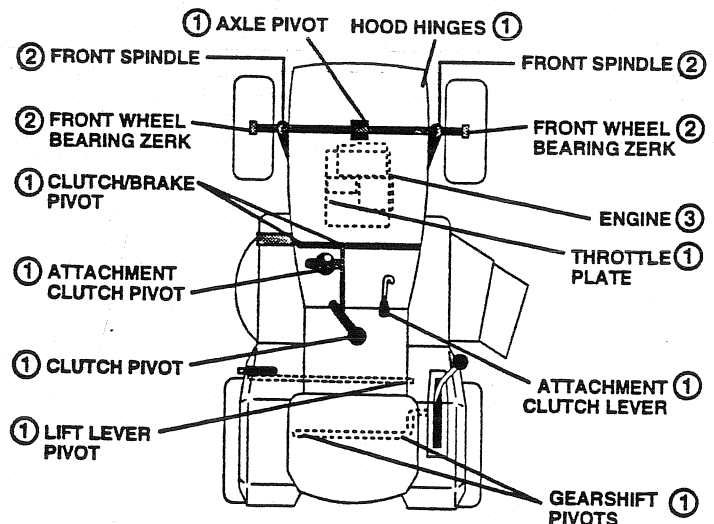
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.

LUBRICATION CHART



① SAE 30 OR 10W30 MOTOR OIL

② GENERAL PURPOSE GREASE

③ REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

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

CUSTOMER RESPONSIBILITIES

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires - 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.

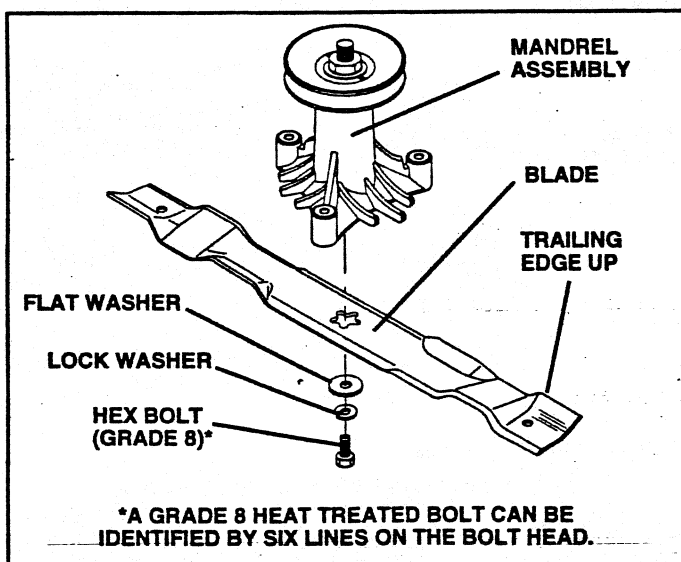


FIG. 14

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.

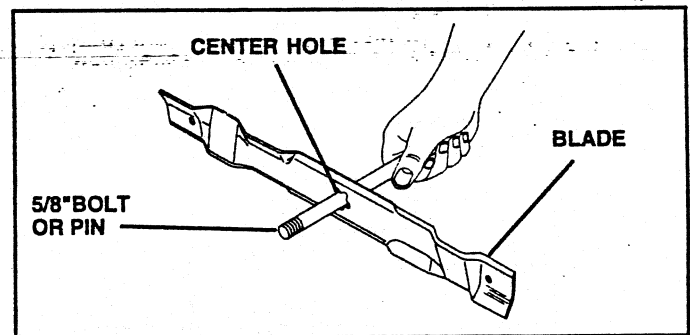


FIG. 15

BATTERY

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

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

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.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "CONNECT BATTERY" in the Assembly section of this manual).

CUSTOMER RESPONSIBILITIES

V- BELTS

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

TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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 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 of operation 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. See engine manual.

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

NOTE: Do not attempt to clean or oil the paper cartridge.

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 operation, whichever comes first. Gap should be set at .030 inch.

IN-LINE FUEL FILTER (See Fig. 16)

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

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

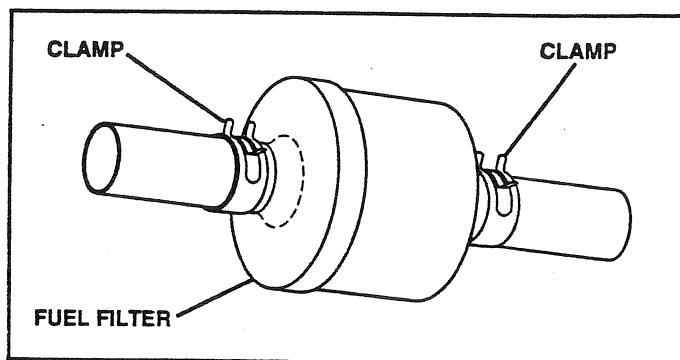


FIG. 16

CLEANING

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

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

SERVICE AND ADJUSTMENTS



CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Figs. 17 and 18)

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. 17 and 18)

- 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.
- Install mower deck in reverse order of removal instructions.

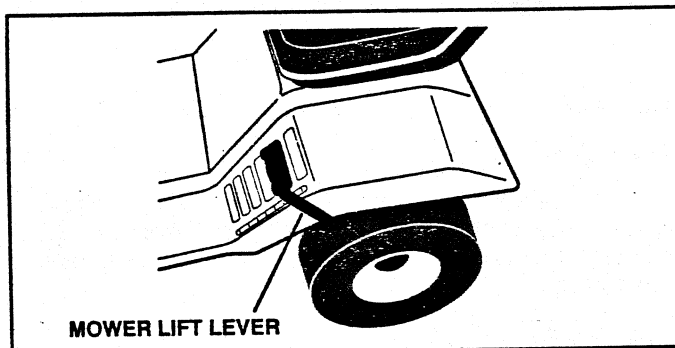


FIG. 17

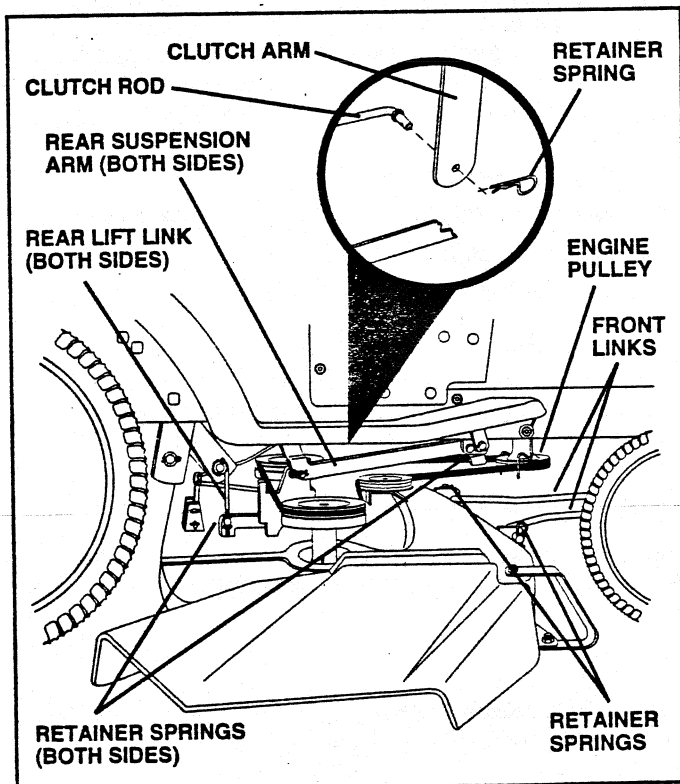


FIG. 18

SERVICE AND ADJUSTMENTS

TO LEVEL MOWER HOUSING

(See Figs 19 & 20)

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.

You will need three (3) 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.
- Loosen nuts "G" and "H" so that the adjustment plates can move freely.
- Raise mower with attachment lift control to allow the two (2) 3-1/2" 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 level on all 3-1/2" thick blocks. Retighten nut "C". Retighten nuts "G" and "H".
- Raise mower with attachment lift control and remove blocks from under mower.

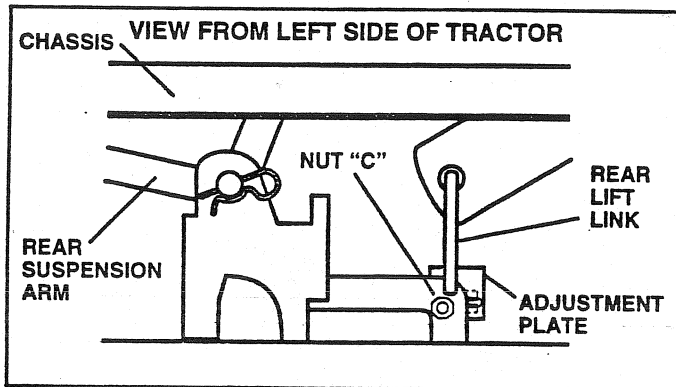
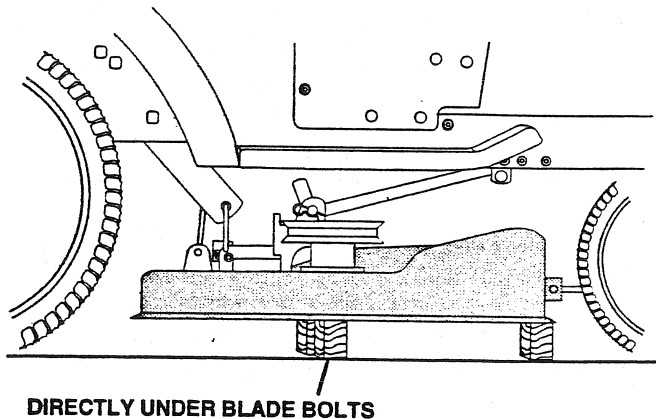


FIG. 19

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



VIEW FROM FRONT OF TRACTOR

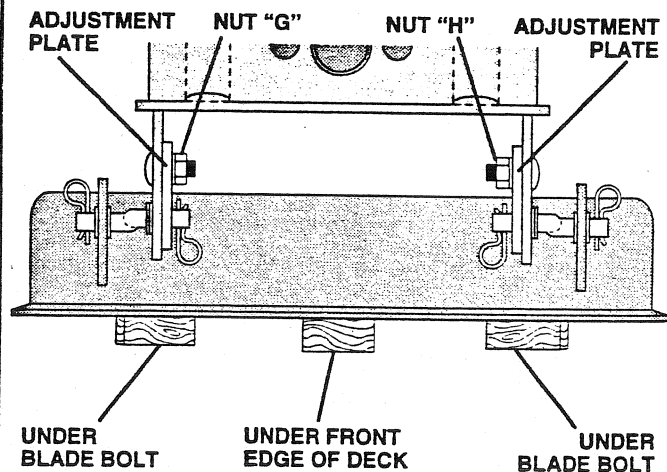


FIG. 20

SERVICE AND ADJUSTMENTS

TO ADJUST BRAKE (See Fig. 21)

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

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

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-5/8", loosen jam nut and turn nut "A" until distance becomes 1-5/8". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/departement.

WITH PARKING BRAKE "ENGAGED"

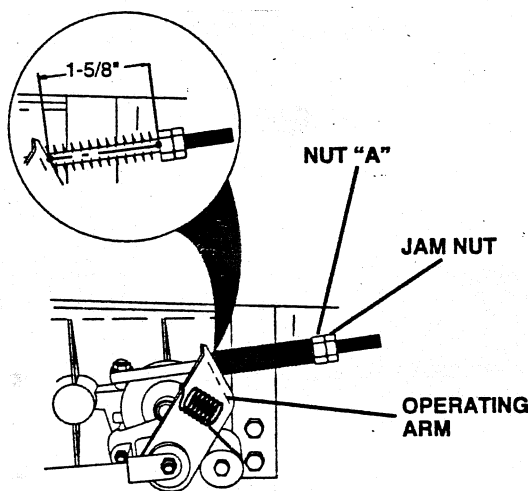


FIG. 21

TO REPLACE MOTION DRIVE BELT (See Fig. 22)

The tractor drive belt may be replaced without tools. Park the tractor on level area. Engage parking brake. For assistance, there is a belt installation guide decal on bottom of left footrest.

- Engage parking brake.
- Lower mower lift lever to "lowest" position.
- Turn front wheels fully to left or right.
- Disconnect mower drive belt at engine pulley.
- Disconnect motion drive belt at clutching idler.
- Disconnect motion drive belt at transaxle. Push above transaxle pulley.

- Disconnect motion drive belt at chassis belt keeper.
- Disconnect motion drive belt at engine pulley. Thread belt below mower drive sheave and through engine belt keeper and engine pulley.
- Remove belt.
- Install new belt by reversing above procedure.
- Make sure that belt is inside all belt keepers.

IMPORTANT: REPLACE ONLY WITH BELT SPECIFIED BY ORIGINAL EQUIPMENT MANUFACTURER.

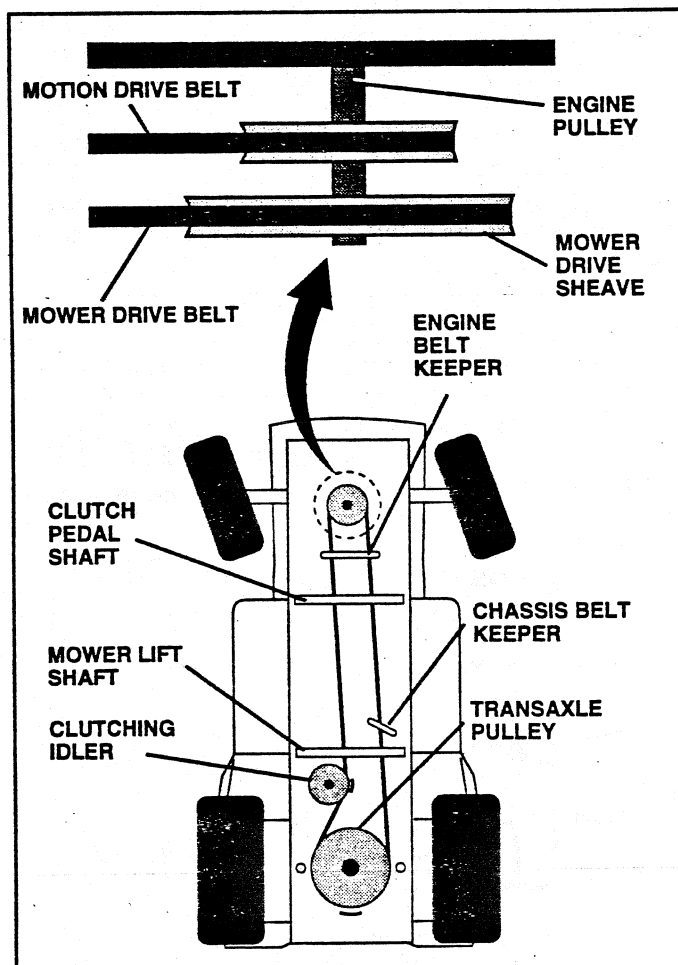


FIG. 22

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

SERVICE AND ADJUSTMENTS

TO REMOVE WHEEL FOR REPAIRS (See Fig. 23)

- 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.

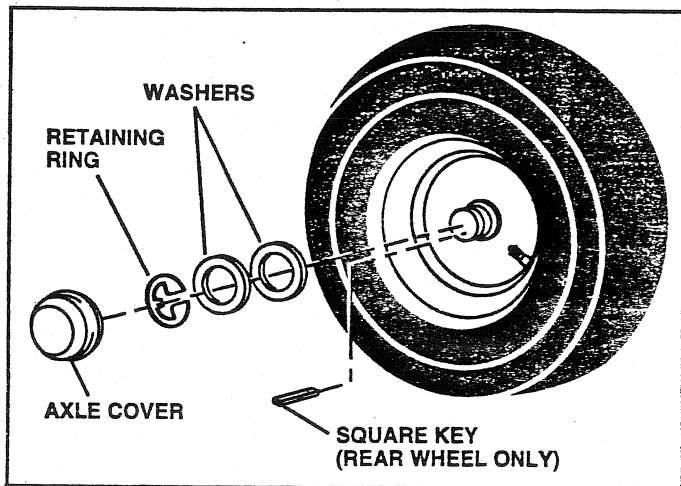


FIG. 23

TO START ENGINE WITH A WEAK BATTERY (See Fig. 24)



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 a 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.

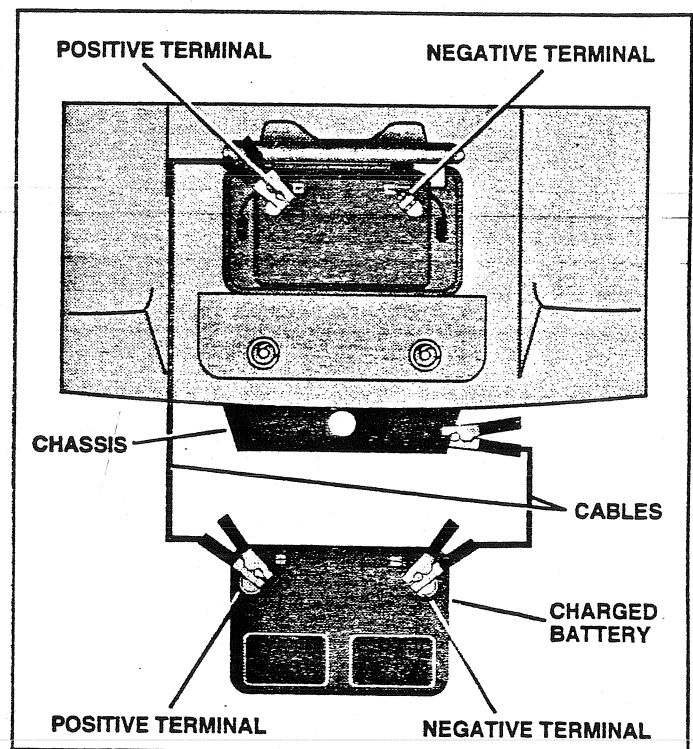


FIG. 24

SERVICE AND ADJUSTMENTS

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

TO REMOVE HOOD (See Fig. 25)

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

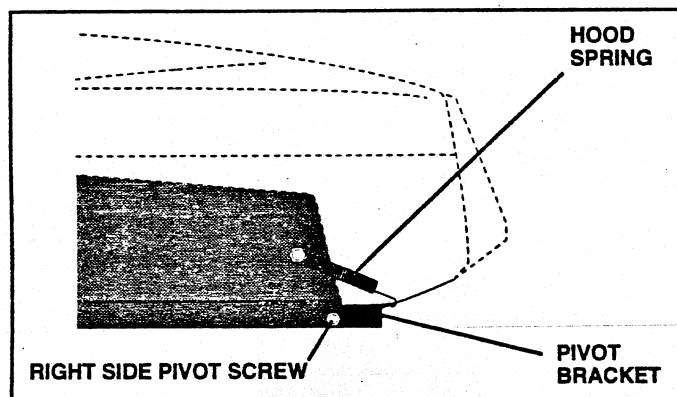


FIG. 25

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, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

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



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

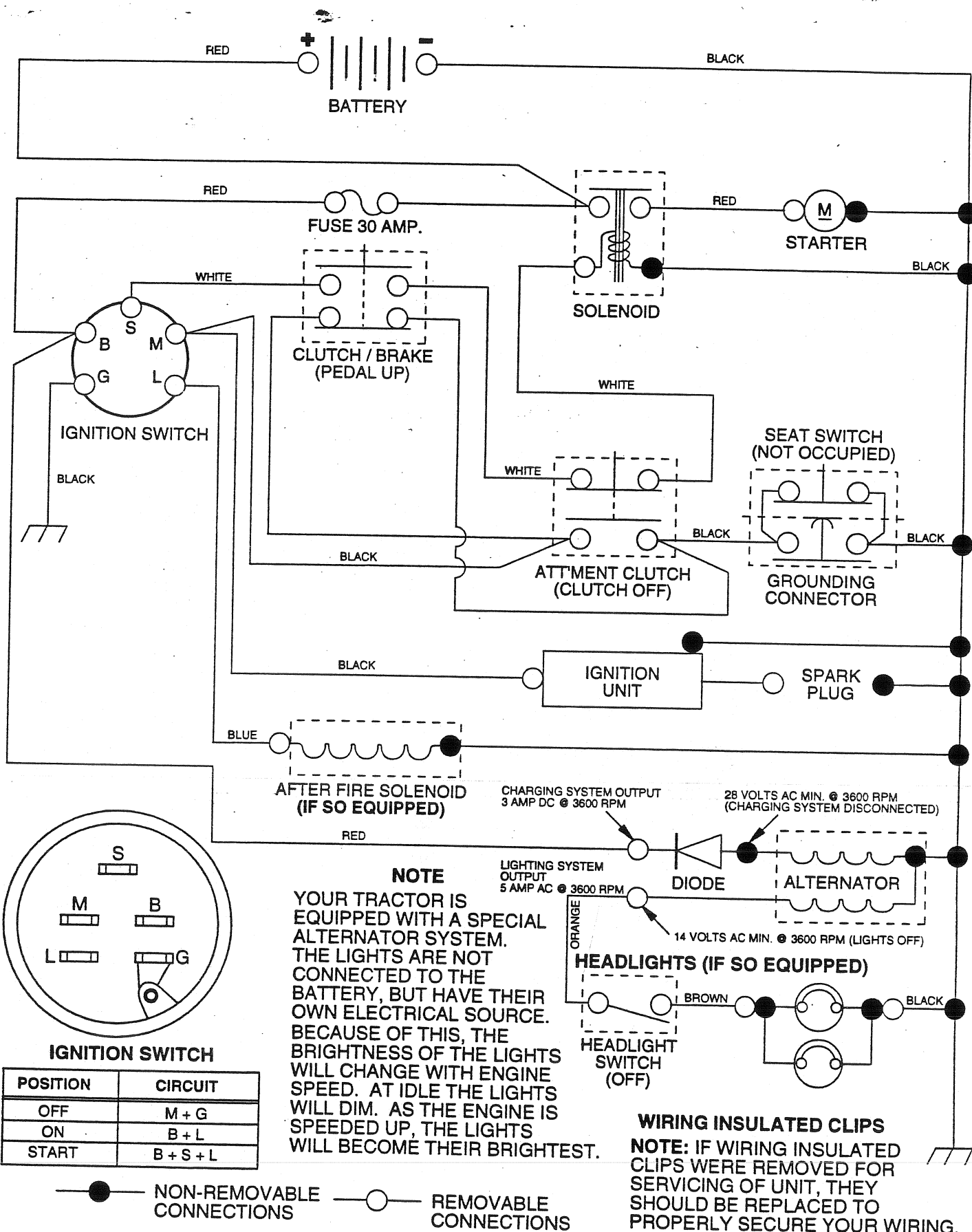
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank.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

TROUBLESHOOTING POINTS

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

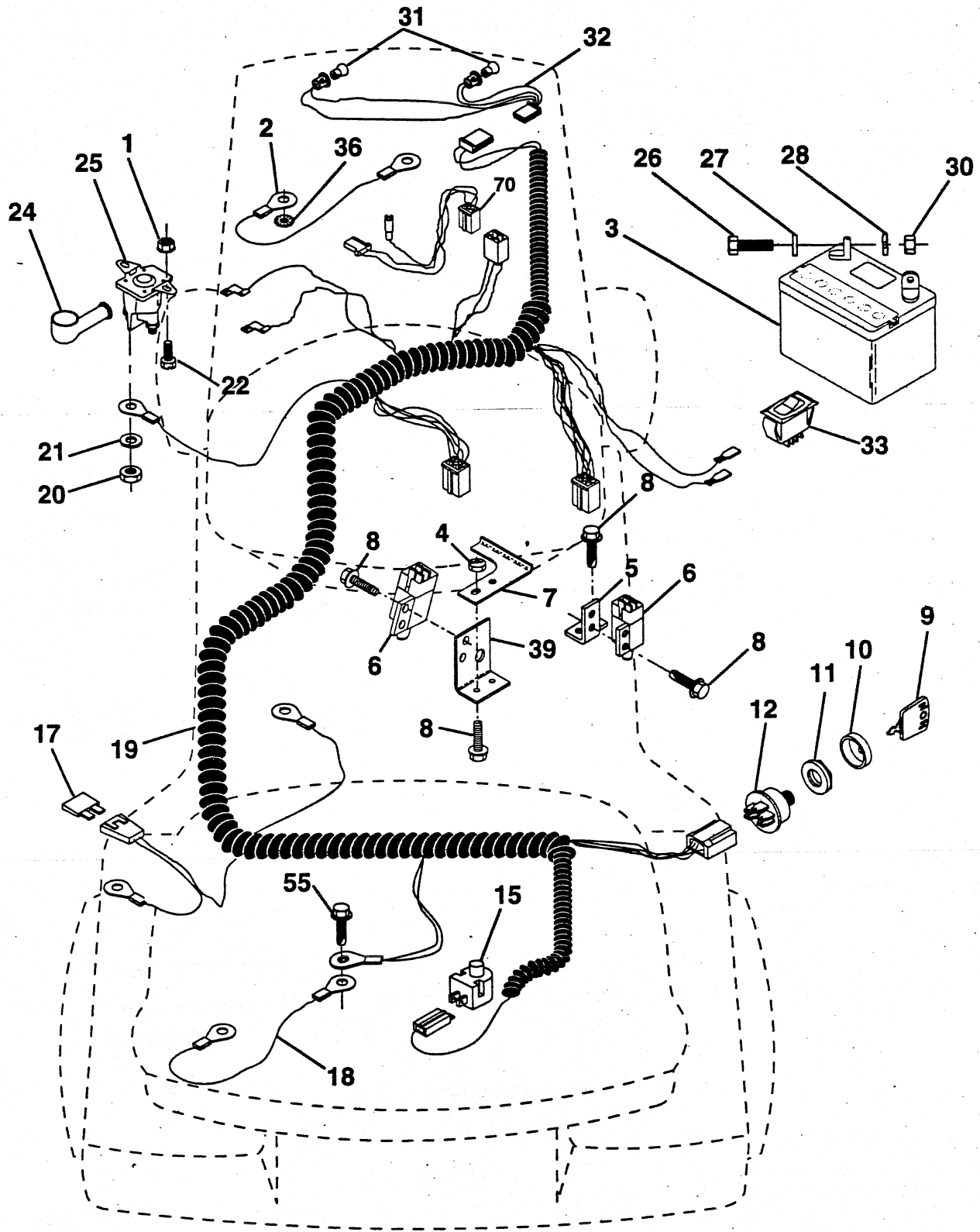
TRACTOR - MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

SCHEMATIC



REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01
ELECTRICAL



REPAIR PARTS

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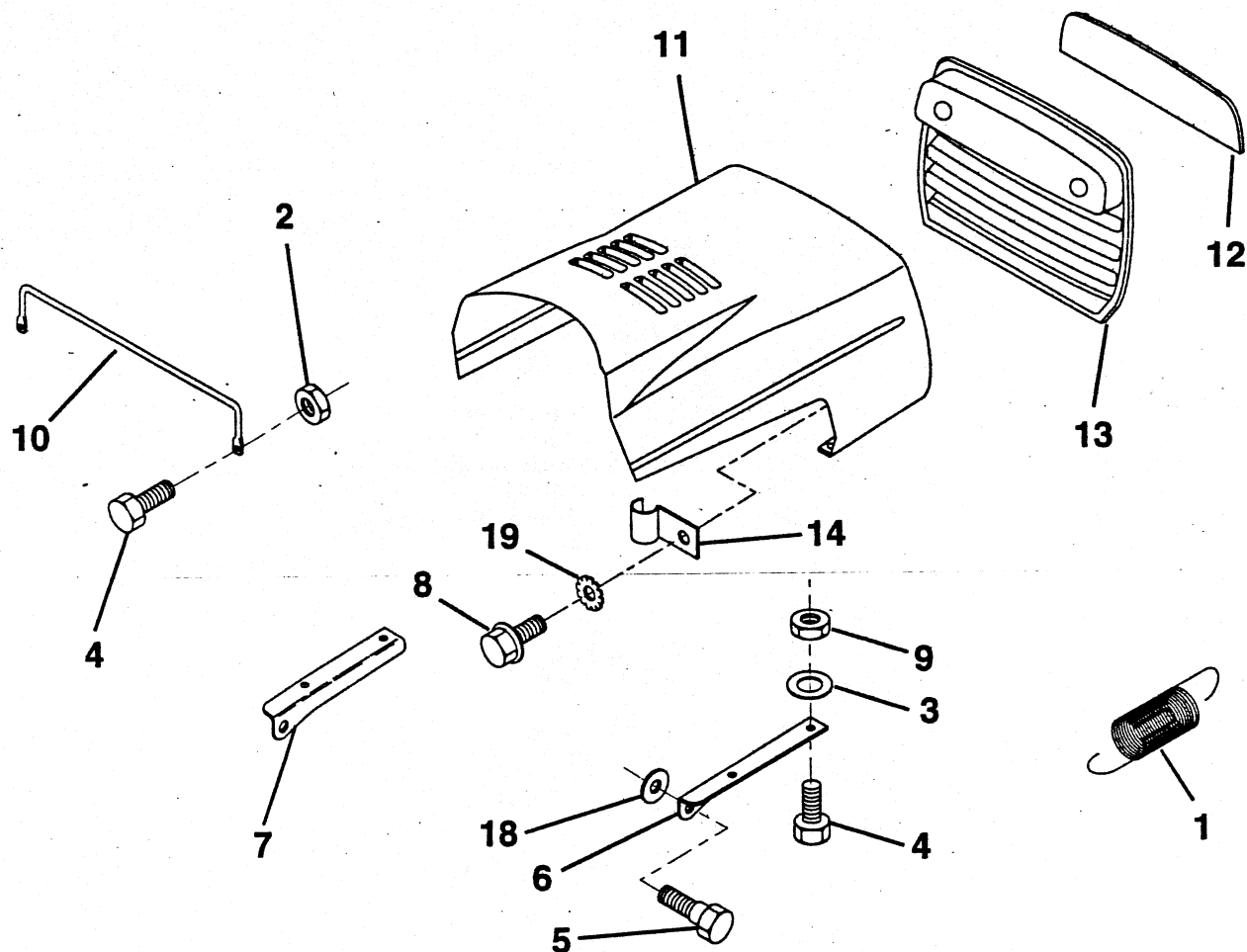
ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	873640400	Nut, Hex, Keps 1/4-20
2	532108423	Assembly, Cable
3	532144924	Battery
4	532069180	Nut, Lock #10-24 Unc
5	532108236	Bracket, Switch
6	532109553	Switch, Interlock, 4 Terminal
7	532146374	Keeper, Actuator
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	532144921	Switch, Ignition
15	532121305	Switch, Plunger
17	532108824	Fuse
18	532128353	Assembly, Cable
19	532146064	Harness, Ignition
20	873350400	Nut, Hex, Jam 1/4-20
21	810090400	Washer, Lock 1/4
22	871110408	Bolt, Hex, Fin. 1/4-20 UNC x 1/2 Grade 5
24	532131563	Cover, Terminal
25	532145673	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
30	873220400	Nut, Hex, Fin. 1/4-20 UNC
31	532004152	Bulb, Light
32	532136850	Harness, Headlight
33	532110712	Switch, Light
36	811150400	Washer, Lock, Internal Tooth 1/4
39	532141735	Bracket, Switch Clutch
55	817490508	Screw, Thdrol 5/16-28 x 1/2
70	532140413	Harness Engine

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

HOOD



KEY NO.	PART NO.	DESCRIPTION
1	532124657	Spring, Ext
2	873680400	Nut, Keps
3	819091416	Washer 9/32 x 7/8 x 16 Ga
4	874780412	Bolt, Fin Hex 1/4-20 x .75
5	532139888	Bolt, Shoulder 5/16-18
6	532122549	Bracket Hood RH
7	532122548	Bracket Hood LH
8	817521312	Screw, Sltd Hex Hd w/PI Washer
9	873800400	Nut, Lock w/Insert 1/4-20

KEY NO.	PART NO.	DESCRIPTION
10	532123693	Brace, Hood
11	532140463	Hood
12	532122035	Lens, Headlight Bar
13	532127029	Grille
14	532124996	Clip, Line Fuel
18	819111116	Washer 11/32 x 11/16 x 16 Ga
19	811030400	Washer Lock 1/4 Ext/Int Tooth

NOTE: All component dimensions given in U.S. inches
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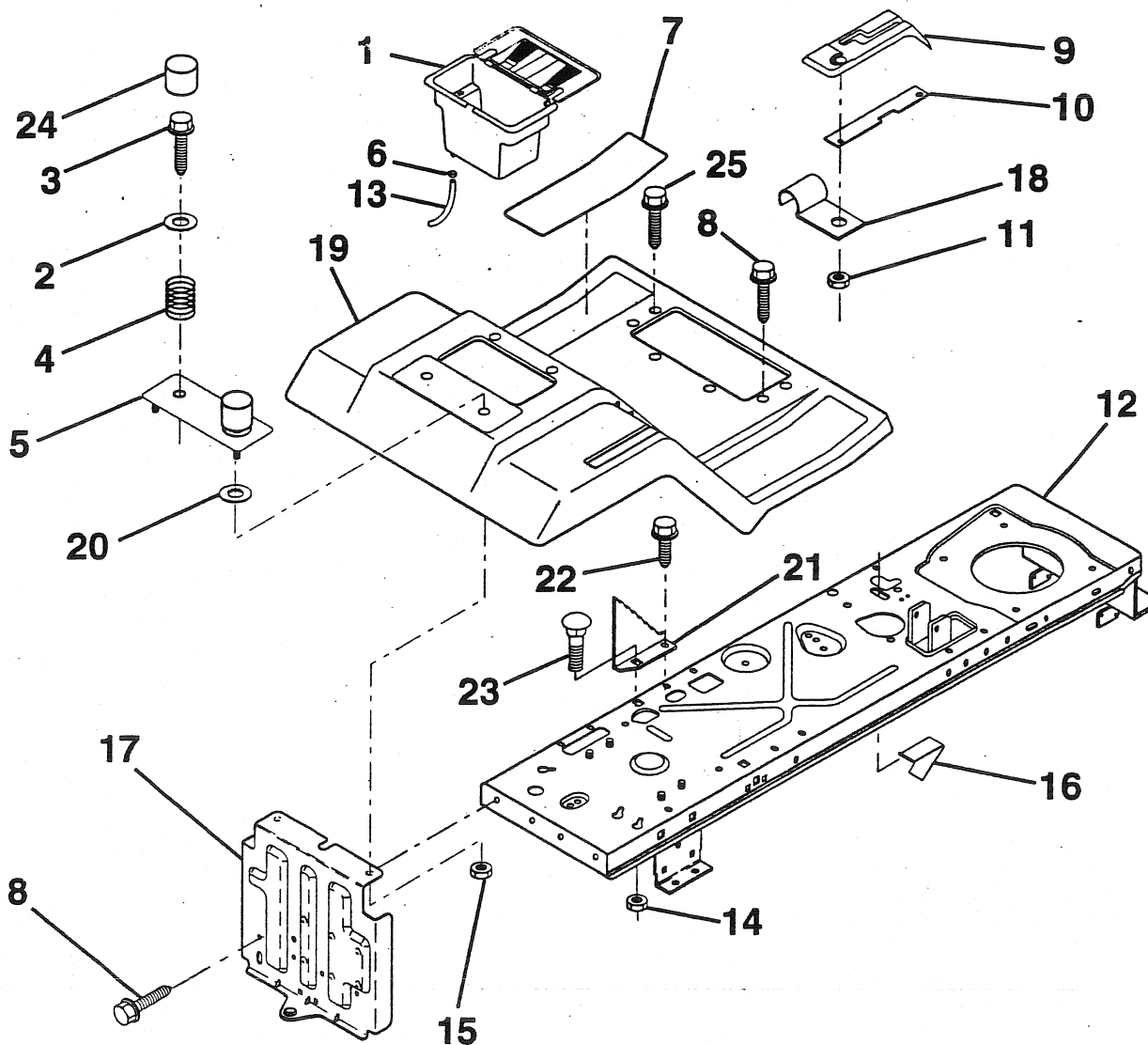
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REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

FENDER/CHASSIS



KEY NO.	PART NO.	DESCRIPTION
1	532144940	Case Asm. Battery
2	819132012	Washer 13/32 x 1-1/4 x 12 Ga.
3	817490612	Screw Thdrol. 3/8-16 x 3/4
4	532124181	Spring seat
5	532125142	Plate Asm. Pnt Battery Fender
6	532109596	Clamp Hose Olive
7	532126700	Pad Footrest Rubber Deluxe
8	817490512	Screw Thdrol. 5/16-18 x 3/4
9	532126995	Console Shf. 6sp W/lgn.
10	532139783	Plate Lock Shift
11	532124346	Nut Self Thd. Wsh-Hd 1/4
12	532145190	Chassis Asm. Weldment
13	532109238	Tube Plastic
14	873680500	Nut Crownlock 5/16-18

KEY NO.	PART NO.	DESCRIPTION
15	873640400	Nut Keps Blk Hex 1/4-20
16	532141736	Switch Actuator
17	532140782	Drawbar Asm.
18	532126470	Clip Insulated
19	532141366	Fend/Foot Asm. Pnt Shf. Fnd.
20	819091413	Washer 9/32 x 7/8 x 13 Ga.
21	532140297	Bracket Stop Depth
22	817490508	Screw Thdrol 5/16-18 x 1/2
23	872110506	Bolt Rd hd sqnk. 5/16-18 x 3/4
24	532124238	Cap Spring Seat
25	817190516	Scr-Hex S.T. 5/16-18 x 1

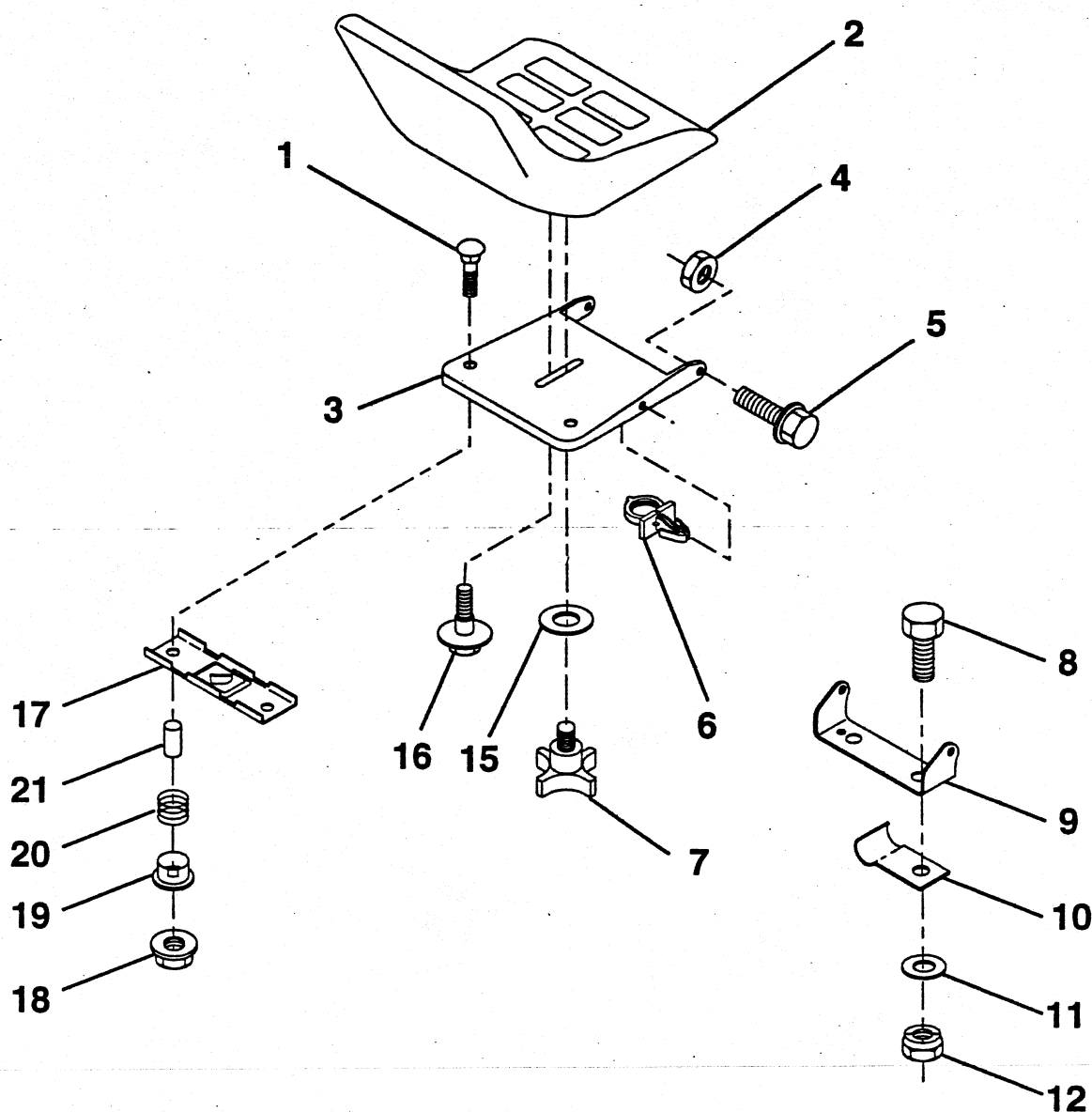
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

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REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

SEAT



KEY NO.	PART NO.	DESCRIPTION
1	872050411	Bolt, Carriage 1/4-20 x 1-3/8
2	532134647	Seat
3	532140552	Pan, Seat
4	873800500	Nut, Hex, Crownlock 5/16-18
5	532139888	Bolt, Shoulder 5/16-18 UNC
6	532145006	Clip, Insulated
7	532120068	Knob, Seat
8	874760616	Bolt, Hex, Fin. 3/8-16
9	532140551	Bracket, Pivot, Seat
11	819133210	Washer 12/32 x 2 x 10 Gauge

KEY NO.	PART NO.	DESCRIPTION
12	873800600	Nut, Hex, Crownlock 3/8-16 UNC
15	819171912	Washer 17/32 x 1-3/16 x 12 Gauge
16	532127018	Bolt, Shoulder
17	532121246	Bracket, Switch Mounting
18	532123976	Nut, Hex, Large, Flange Lock
19	532121248	Bushing, Snap
20	532121250	Spring, Compression
21	532134300	Spacer, Split, Large .28 Id. x .96

NOTE: All component dimensions given in U.S. inches
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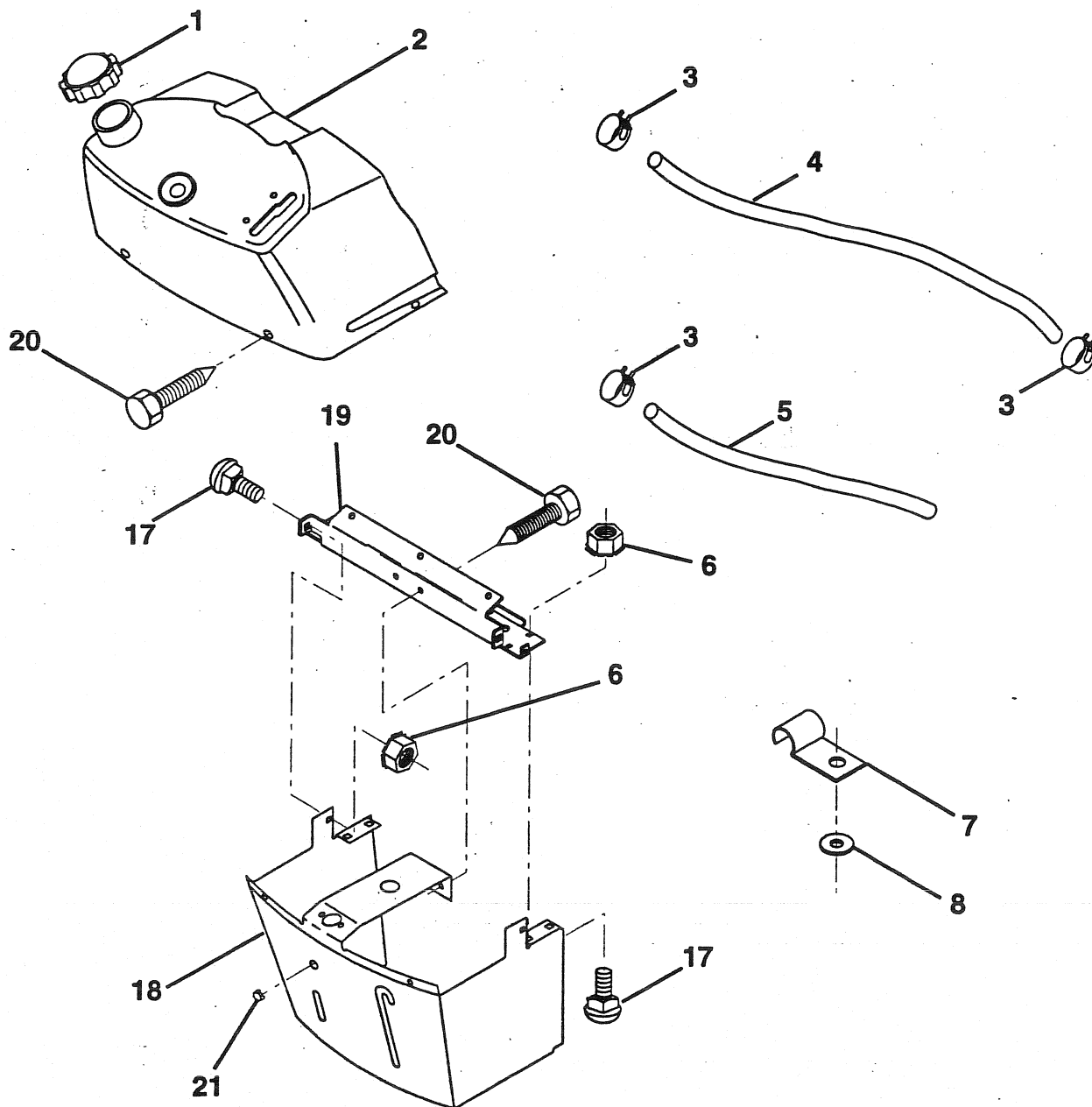
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REPAIR PARTS

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DASH



KEY NO.	PART NO.	DESCRIPTION
1	532141523	Cap, Fuel Tank
2	532138392	Assembly, Dash & Fuel Tank
3	532123487	Clamp, Hose
4	532008544	Line, Fuel
5	532008548	Line, Fuel
6	873640400	Nut, Hex, Keps 1/4-20
7	532124996	Clip, Fuel Line
8	819091216	Washer, 9/32 x 3/4 x 16 Gauge

KEY NO.	PART NO.	DESCRIPTION
17	872110404	Bolt, Carriage 1/4-20 x 1/2 Grade 5
18	532131886	Support Assembly, Dash
19	532134744	Brace, Cross
20	817060408	Screw, Self-Tapping 1/4-20 x 1/2
21	532134014	Plug, Dome, Black

NOTE: All component dimensions given in U.S. inches
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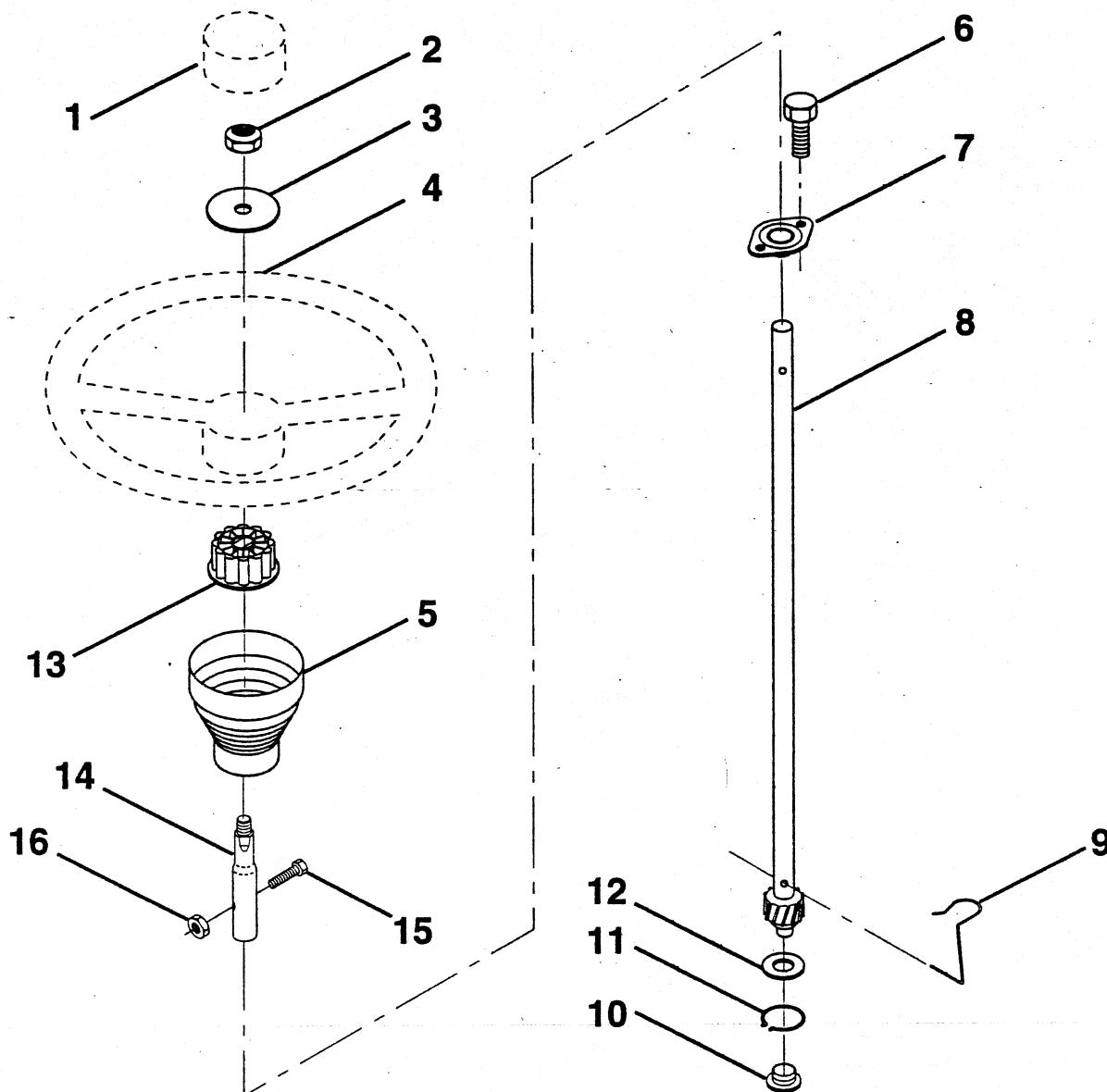
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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

STEERING WHEEL



KEY NO.	PART NO.	DESCRIPTION
1	532126805	Insert, Steering Wheel
2	532124701	Locknut 3/8-24 UNF
3	819133808	Washer 12/32 x 2-3/8 x 8 Gauge
4	532121472	Steering Wheel
5	532121897	Sleeve, Steering
6	817431008	Screw, Hex Head #10-16 x 1/2
7	532102803	Bushing, Steering
8	532147391	Shaft, Steering
9	532124210	Clip, Steering

KEY NO.	PART NO.	DESCRIPTION
10	532123438	Bushing, Lower, Steering
11	812000045	Ring, Retaining
12	819211616	Washer 21/32 x 1 x 16 Gauge
13	532104820	Adaptor, Steering Wheel
14	532147392	Extension Shaft Steering
15	874780520	Bolt Fin Hex 5/16-18 Unc x 1-1/4
16	873800500	Nut, Lock Hex w/Ins 5/16-18 Unc

NOTE: All component dimensions given in U.S. inches
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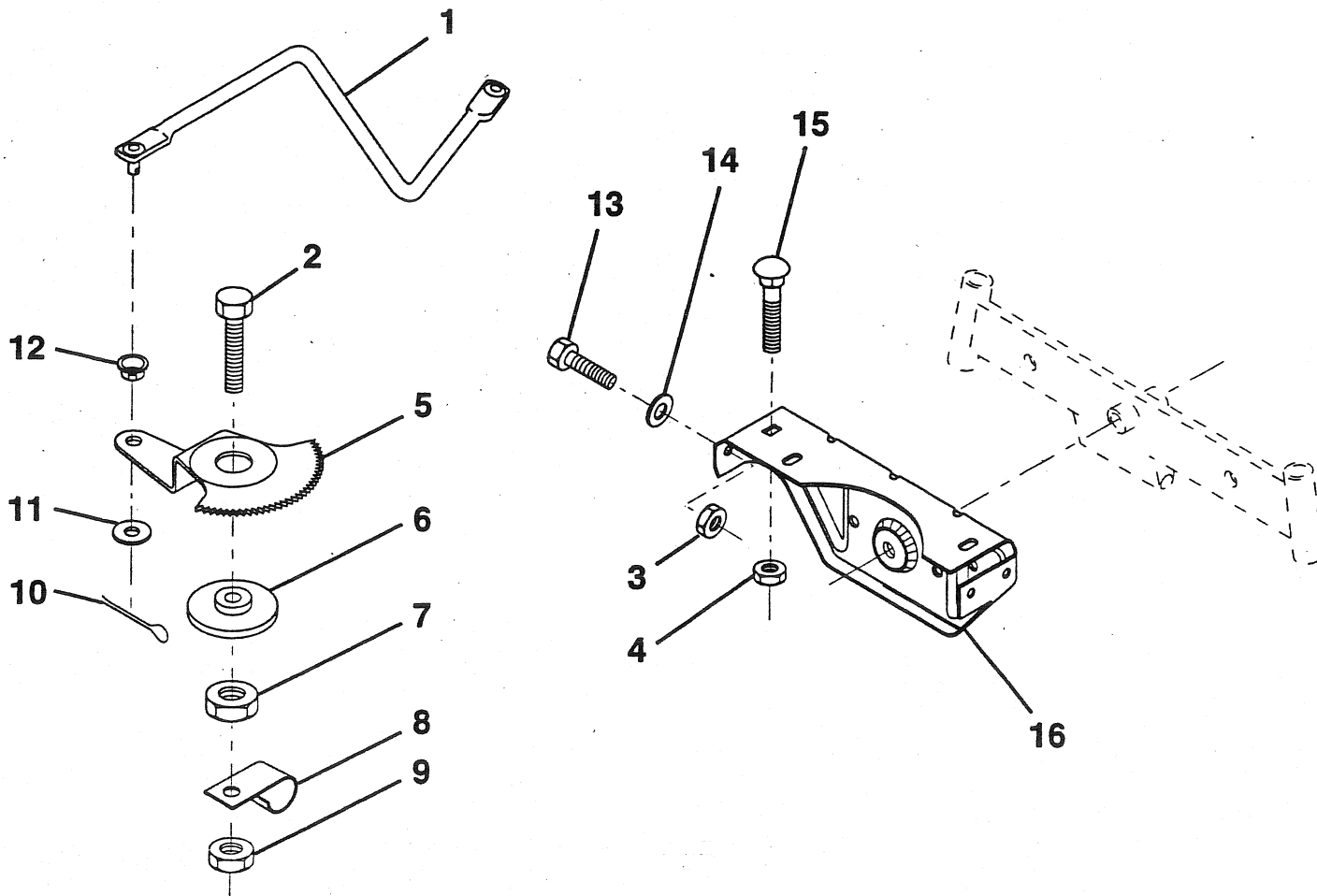
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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

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
3	873680500	Nut, Hex, Crownlock 5/16-18
4	873680600	Nut, Crownlock 3/8-16
5	532121926	Gear, Sector
6	532121927	Bushing
7	873030800	Nut, Hvy Hex, Top Lock 1/2-13 UNC
8	532126472	Clip, Insulated
9	873680800	Nut, Crownlock 3/8-16

KEY NO.	PART NO.	DESCRIPTION
10	876020412	Pin, Cotter 1/8 x 3/4
11	819131316	Washer 13/32 x 13/16 x 16 Gauge
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
16	532137096	Support, Front Axle

NOTE: All component dimensions given in U.S. inches
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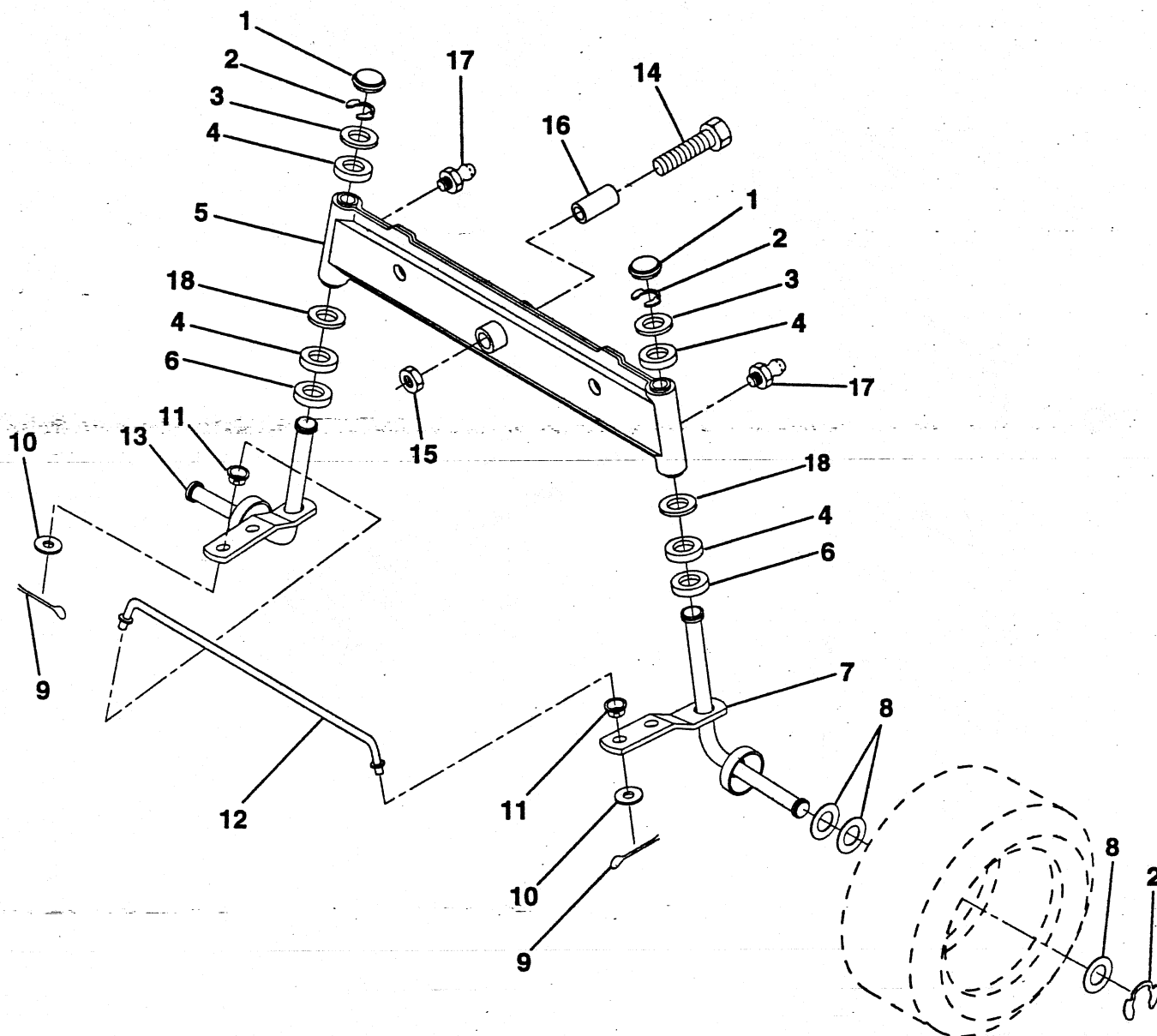
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REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

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.

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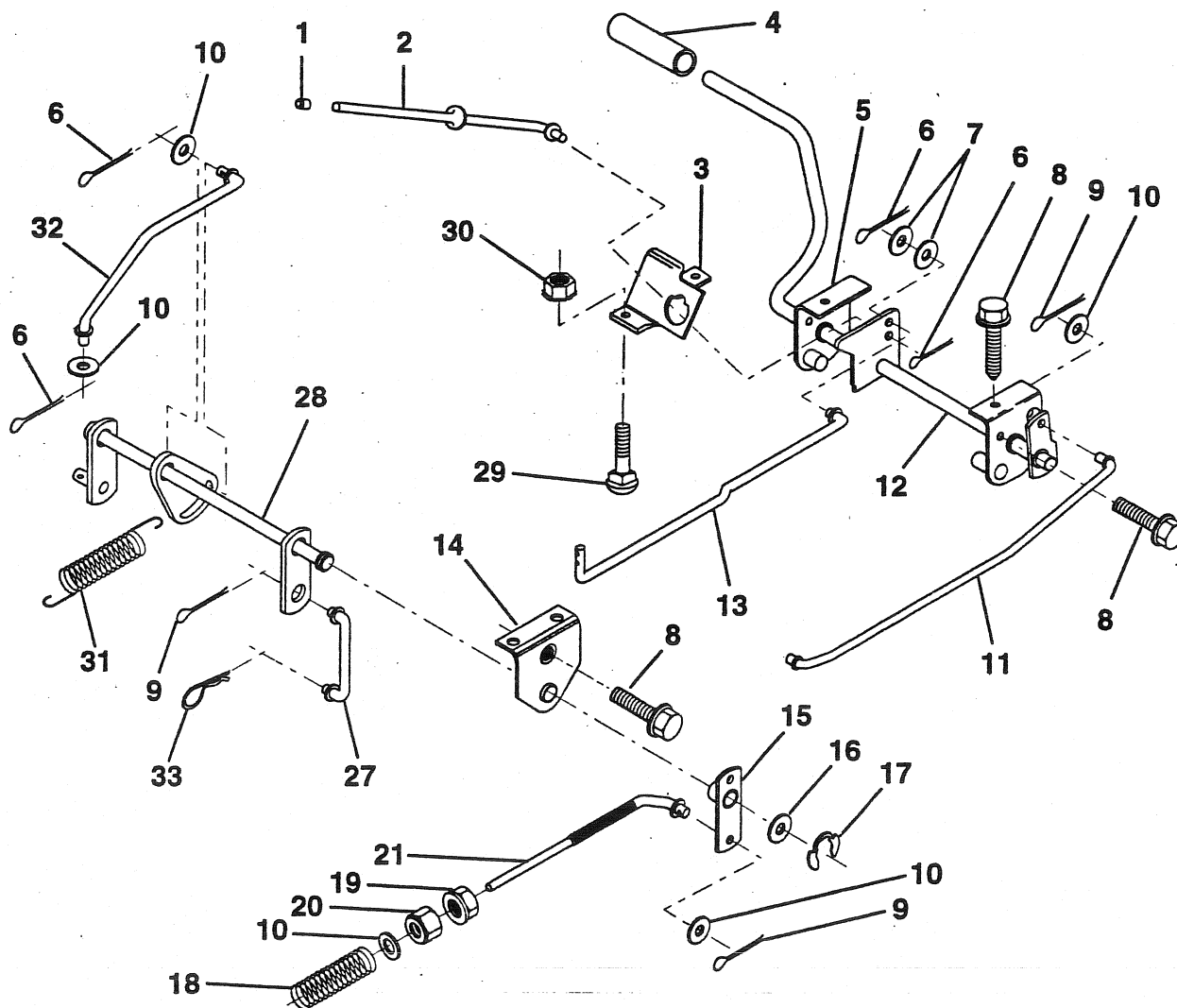
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REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

BRAKE / REAR MOWER LIFT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	532071673	Cap, Plunger
2	532123436	Rod, Parking Brake
3	532123437	Bracket, Parking Brake
4	532008883	Cover, Pedal
5	532132205	Bracket, Clutch/Brake Pedal, L.H.
6	876020312	Pin, Cotter 3/32 x 3/4
7	819131016	Washer 13/32 x 5/8 x 16 Gauge
8	817490508	Screw, Hex Head, Thd., Roll. 5/16-18 x 1/2
9	876020412	Pin, Cotter 1/8 x 3/4
10	819131316	Washer 13/32 x 13/16 x 16 Gauge
11	532123543	Rod, Brake, Front
12	532139934	Assembly, Clutch/Brake Pedal
13	532123394	Rod, Clutch
14	532121978	Bracket, Lift Shaft
15	532133332	Assembly, Brake, Pivot, Arm

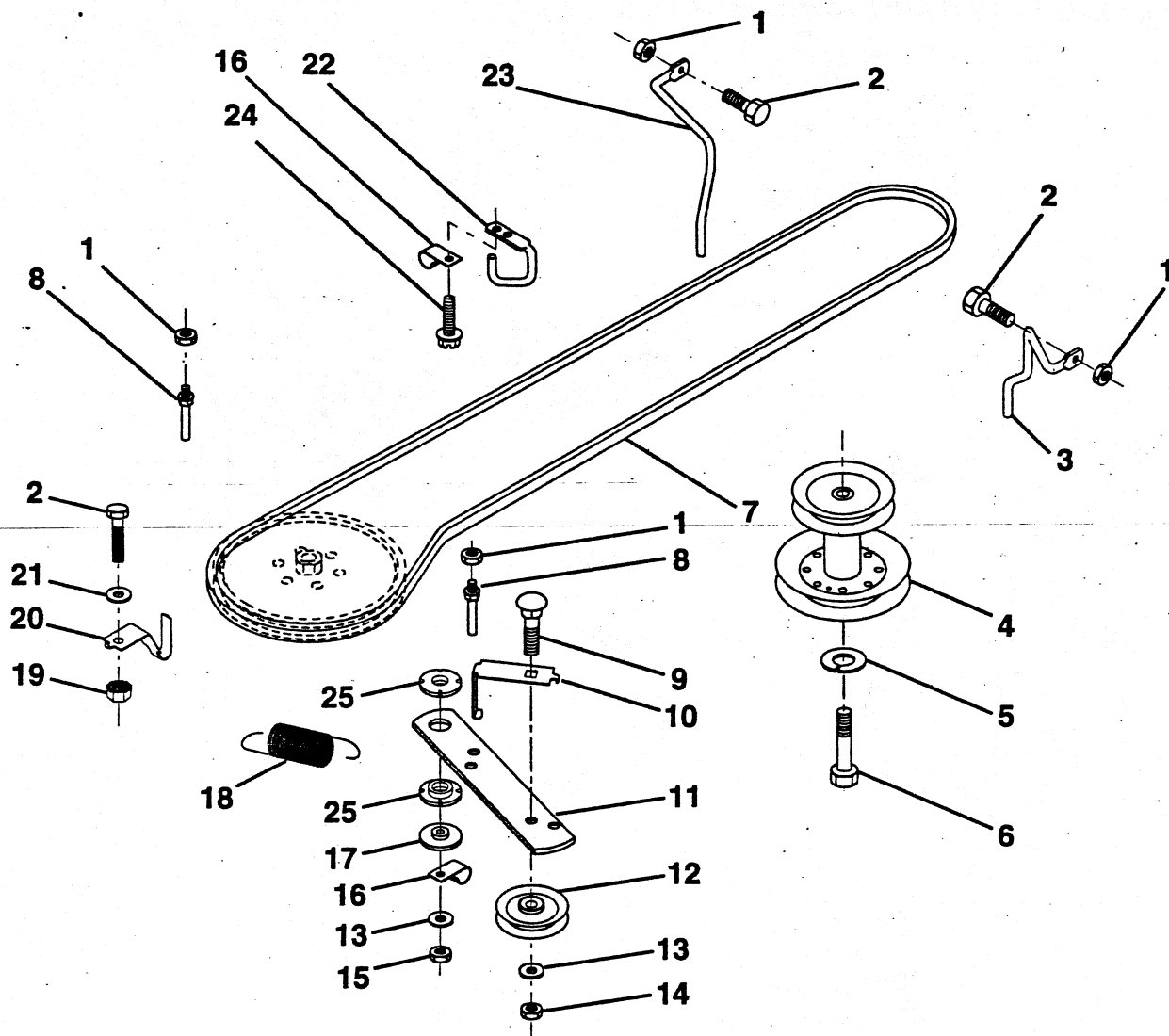
KEY NO.	PART NO.	DESCRIPTION
16	819251816	Washer 25/32 x 1-1/8 x 16 Gauge
17	812000034	Ring, Klip
18	532151332	Spring, Brake Rod
19	873350600	Nut, Hex, Jam 3/8-16 UNC
20	873800600	Nut, Lock Hex w/Ins 3/8-16 Unc
21	532131460	Rod, Brake, Rear
27	532136780	Link, Lift, Rear
28	532140777	Assembly, Rear Mower Lift
29	872110506	Bolt, Rd Hd Sqnk 5/16-18 UNC
30	873510500	Nut, Hex, Keps 5/16-16 UNC
31	532133095	Spring, Counterbalance
32	532133721	Link, Lift Lever
33	532127670	Retainer Spring

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HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01
GROUND DRIVE



KEY NO.	PART NO.	DESCRIPTION
1	873680500	Nut, Crownlock 5/16-18
2	874760512	Bolt, Hex Head 5/16-18 UNC x 3/4
3	532141341	Keeper, Mower Drive, R.H.
4	532138029	Pulley, Engine
5	810040700	Washer, Lock 7/16
6	871170744	Bolt, Hex Hd. 7/16-20 UNF Grade 5
7	532124525	Traction, V-Belt Drive
8	532123405	Keeper, T/A, Ground Drive Belt
9	872140612	Bolt, Carriage 3/8-16 UNC x 1-1/2
10	532123396	Keeper, Ground Drive Belt Idler
11	532150926	Arm, Ground Drive Clutch
12	532123674	Idler, Flat
13	819131316	Washer 13/32 x 13/16 x 16 Gauge
14	873930600	Nut, Hex, Centerlock 3/8-16 UNC

KEY NO.	PART NO.	DESCRIPTION
15	873680600	Nut, Hex, Crownlock 3/8-16 UNC
17	532150932	Spacer, Retainer
18	532131459	Spring, Extension
19	873510500	Nut, Hex, Keps 5/16-18 UNC
20	532139919	Keeper, T/A, Ground Drive Belt
21	819111016	Washer 11/32 x 5/8 x 16 Gauge
22	532123404	Keeper, Frame Ground Drive Belt
23	532146792	Keeper, Belt LH
24	817720408	Screw, THD Cut
25	532150935	Bushing Nylon
35	532126472	Clip Insulated

NOTE: All component dimensions given in U.S. inches
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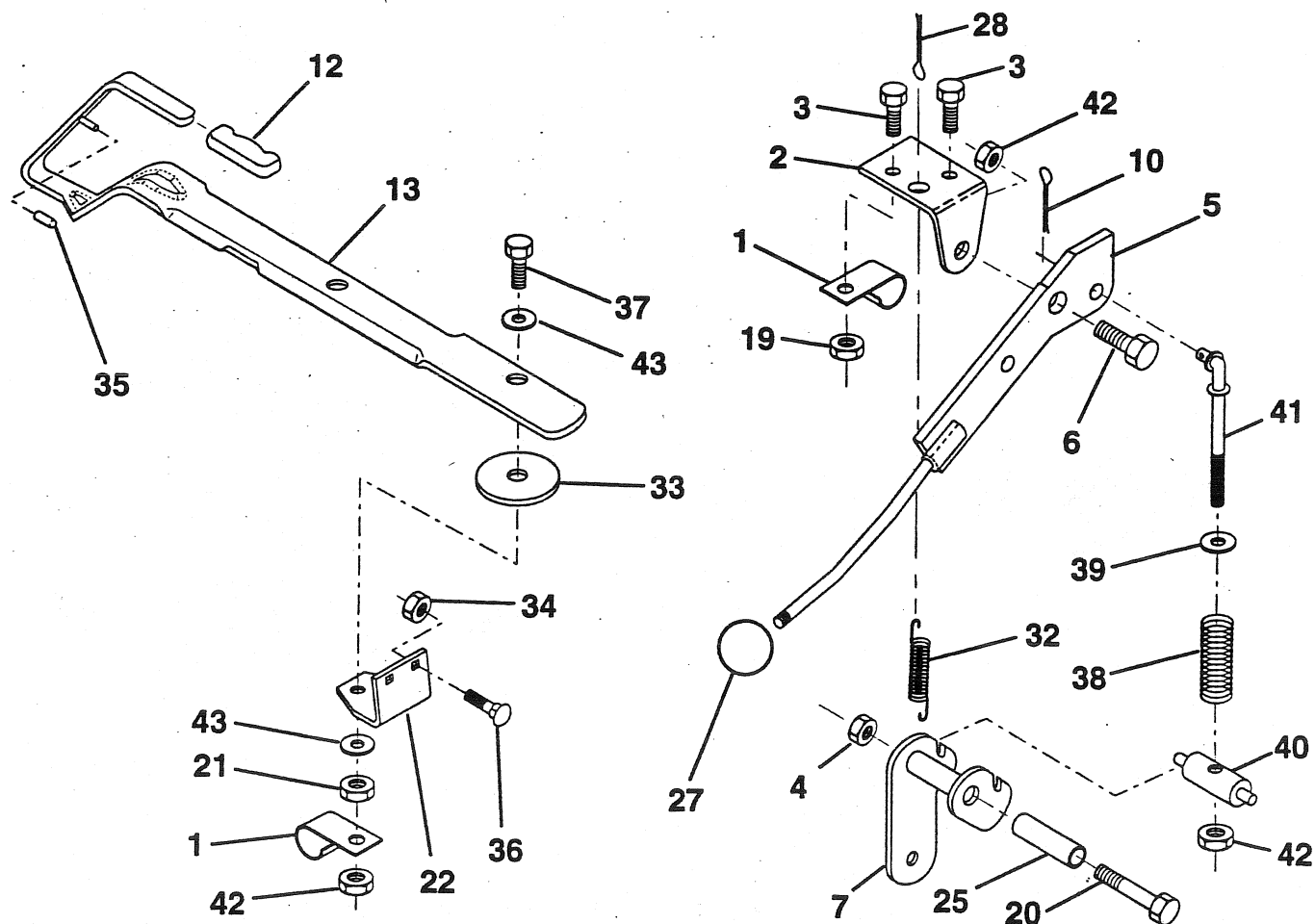
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REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

MOWER LIFT LEVER



KEY NO.	PART NO.	DESCRIPTION
1	532126470	Clip, Insulated
2	532122018	Bracket, Mower Clutch
3	871110408	Bolt, Hex Hd, Fin. 1/4-20 UNC x 1/2 Gr. 5
4	873680600	Nut, Crownlock 3/8-16
5	532145187	Assembly, Clutch Lever
6	532106451	Bolt, Shoulder
7	532141435	Assembly, Mower Clutch Arm
10	876020412	Pin, Cotter 1/8 x 3/4
12	532122027	Handle, Lift Lever
13	532136658	Assembly, Lift Handle
19	873680400	Nut, Crownlock 1/4-20
20	874760644	Bolt, Hex Hd, Fin. 3/8-16 UNC x 2-3/4
21	873930600	Nut, Centerlock
22	532132561	Bracket, Lift Lever
25	532121933	Tube, Spacer

KEY NO.	PART NO.	DESCRIPTION
27	532121466	Knob
28	876020312	Pin, Cotter 3/32 x 3/4
32	532133435	Spring, Extension, Return
33	532062333	Washer .390 x 1.437 x .074
34	873800500	Nut, Crownlock 5/16-18
35	532133603	Cap, Vinyl, Red
36	872140506	Bolt, Carriage 5/16-18 x 3/4
37	874930624	Bolt, Hex Head 3/8-16 UNC x 1-1/2
38	532133939	Spring, Compression
39	819131616	Washer 13/32 x 1 x 11 Gauge
40	532135107	Trunnion, Threaded 3/8-16
41	532135039	Rod, Tension, Clutch
42	873800600	Nut, Crownlock 3/8-16 UNC
43	532007672	Washer 25/64 x 1-1/4 x 12 Gauge

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

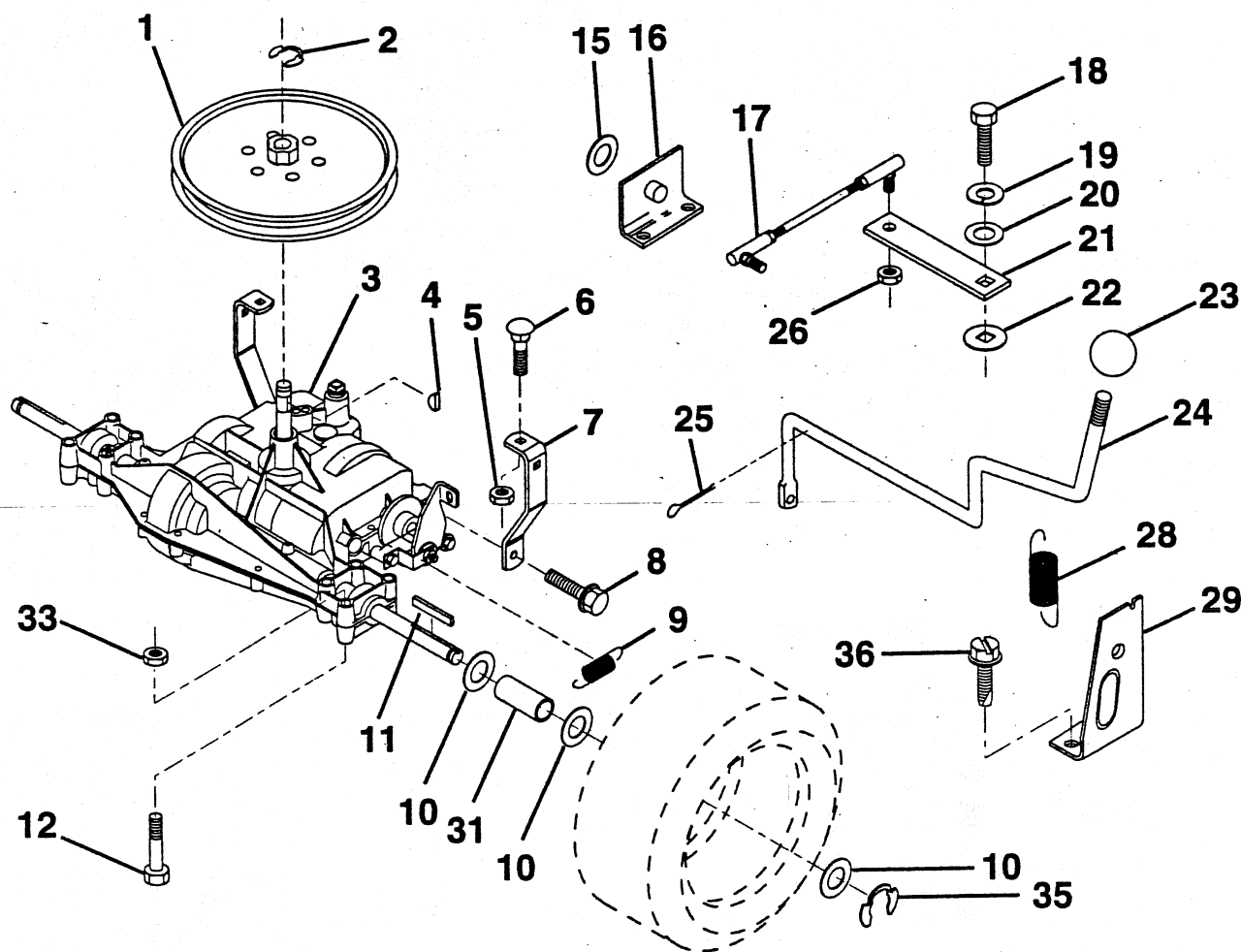
HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

TRANSAXLE



KEY NO.	PART NO.	DESCRIPTION
1	532123385	Pulley
2	812000028	Ring, Retainer
3	532142603	Transaxle, Dana Model No. 4360-79
4	532125096	Key, Woodruff #9
5	873680500	Nut, Crownlock 5/16-18
6	872140506	Bolt, Carriage 5/16-18 UNC x 3/4
7	532123378	Strap, Torque
8	817490512	Screw 5/16-18 x 3/4
9	532146682	Spring, Brake
10	532121749	Washer 25/32 x 1-1/4 x 16 Gauge
11	532123583	Key, Square
12	874760644	Bolt, Hex, Fin. 3/8-16 Unc x 2-3/4
15	819171616	Washer 17/32 x 1 x 16 Gauge
16	532124600	Support Handle Shift, LH
17	532123632	Link, Shift
18	874550412	Bolt, Hex, Fin. 1/4-28 UNF x 3/4 Gr. 8
19	810040400	Washer, Lock 1/4

KEY NO.	PART NO.	DESCRIPTION
20	819091210	Washer 9/32 x 3/4 x 10 Gauge
21	532123539	Arm, Shift
22	532105701	Washer, Shift Plate
23	532121274	Knob, Duckhead
24	532128215	Rod Assembly, Shift
25	876020416	Pin, Cotter 1/8 x 1
26	873810500	Locknut 5/16-24 UNF
28	532128085	Extension, Spring
29	532128084	Support Handle Shift, RH
31	532109502	Spacer Split
33	873680600	Nut Crownlock 3/8-16 Unc
35	812000001	E-Ring
36	817720408	Screw Thd. cut 1/4-20 x 1/2

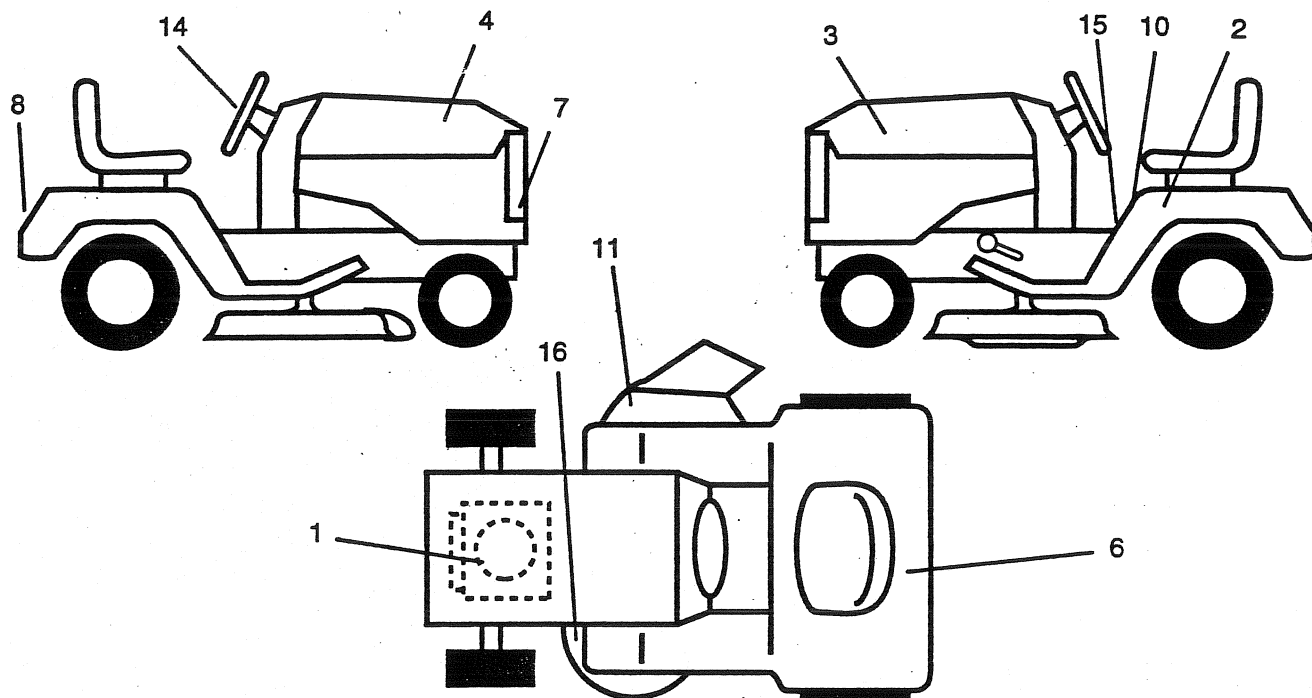
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HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

DECALS



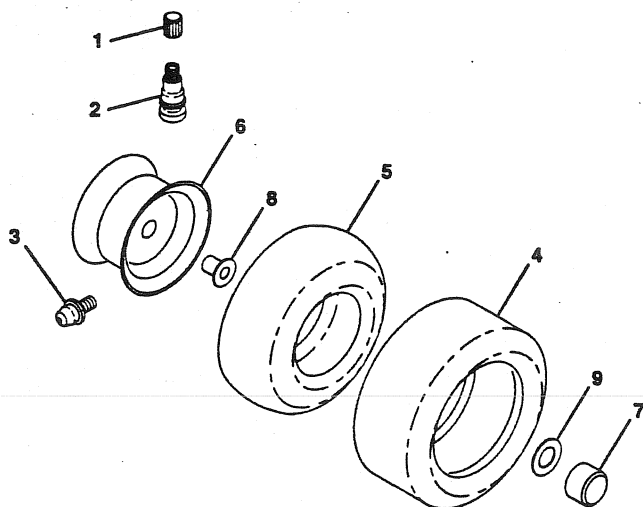
KEY NO.	PART NO.	DESCRIPTION
1	532272440	Decal, Engine, HP
2	532135073	Decal, Indicator
3	532151243	Decal, Hood, L.H.
4	532151242	Decal, Hood, R.H.
6	532145005	Decal, Caution Battery
7	532126860	Decal, Lightbox
8	532150617	Decal, Logo, Fender
10	532133795	Decal, Fender, Caution
11	532137259	Decal, Warning, Multi-Language

KEY NO.	PART NO.	DESCRIPTION
14	532143972	Decal, Insert Steering
15	532138269	Decal, Instruction, Operating
16	532136832	Decal, V-Belt Schematic
--	532150977	Manual, Owner's(English)
--	532150978	Manual, Owner's(French)

Available accessories not included with tractor:

--	CR 38	Grass Catcher
--	MK380	Mulch Kit
--	MP38	Mulch Plate

WHEELS & TIRES

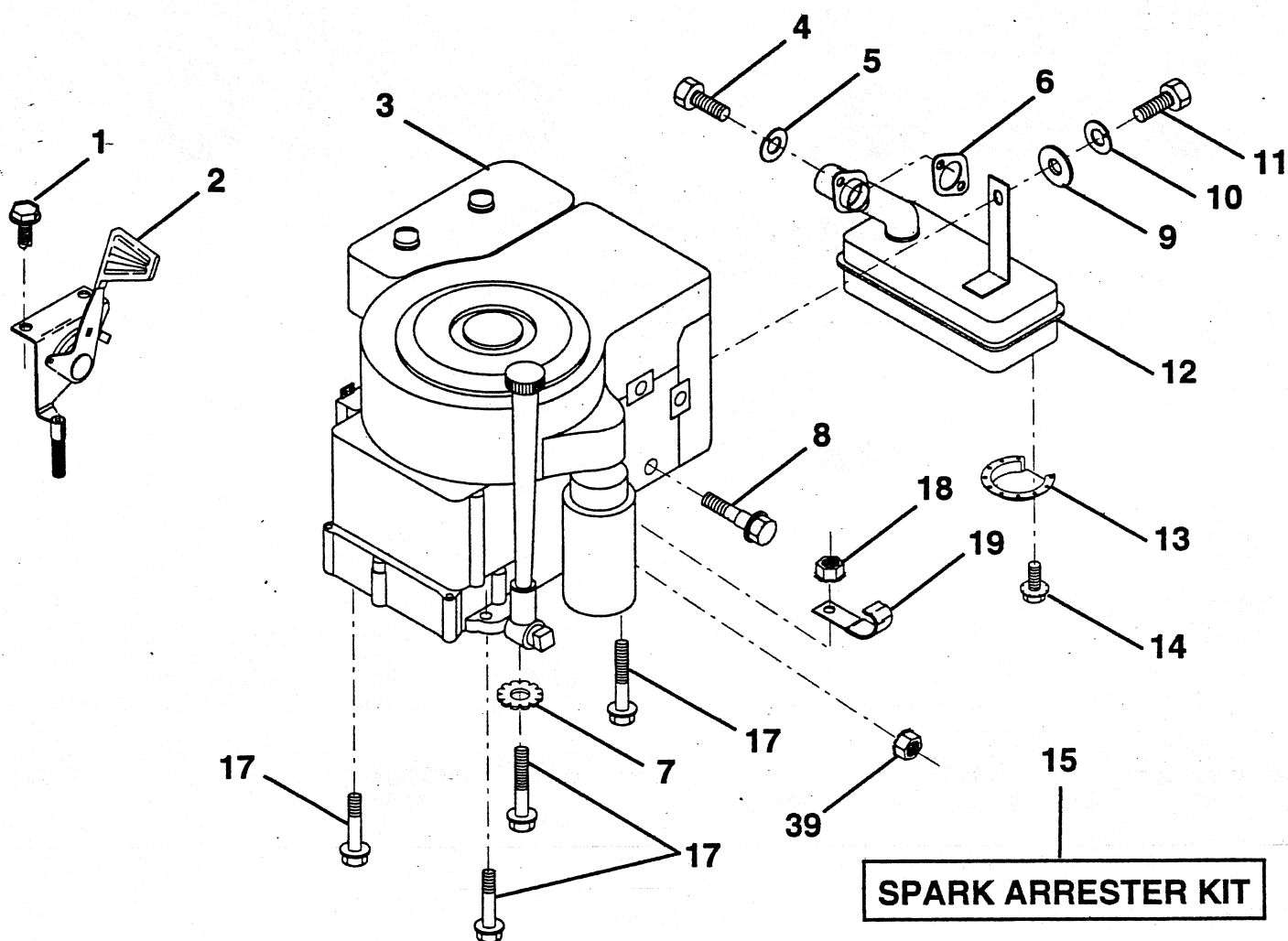


KEY NO.	PART NO.	DESCRIPTION
1	532059192	Cap, Valve Stem
2	532065139	Stem, Valve
3	532124957	Fitting, Grease (Front Wheels Only)
4	532137422	Tire, Front
	532132703	Tire, Rear
5	532059904	Tube, Front Tire
		(Optional - Service Item Only)
	532008134	Tube, Rear Tire
		(Optional - Service Item Only)
6	532142039	Rim, Front
	532141652	Rim, Rear
7	532104757	Cap, Hub Axle
8	532124959	Bearing Flange
9	532121748	Washer 25/32 x 1-5/8 x 16 Gauge
--	532144334	Sealant, Tire (10 oz. Tube)

NOTE: All component dimensions given in U.S. inches
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ENGINE



REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

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, Briggs & Stratton, 12 HP, Model #282707-0170-01
4	871070512	Screw, Hex Cap Hd. 5/16-18 x 3/4
5	810040500	Washer, Lock, Heavy Helical Spring 5/16
6	532272293	Gasket, Exhaust
7	811050600	Washer, Lock Ext. Tooth 3/8
8	532121094	Bolt, Shoulder 5/16
9	819101216	Washer 5/16 x 3/4 x 16 Gauge
10	810040400	Washer, Lock, Heavy Helical Spring 1/4
11	-----	Bolt, Hex, Fin. (Order from Engine Manufacturer)
12	532137437	Muffler
13	532101326	Deflector, Muffler
14	817030808	Screw, Spider lock Hex Hd 8 x 1/2
15	532137180	Arrester, Spark (Optional Equipment)
17	817490624	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 1-1/2
18	873510600	Nut, Hex, Keps 3/8-16
19	532124996	Clip, Fuel Line
39	532128861	Nut, Flange 1/4-20

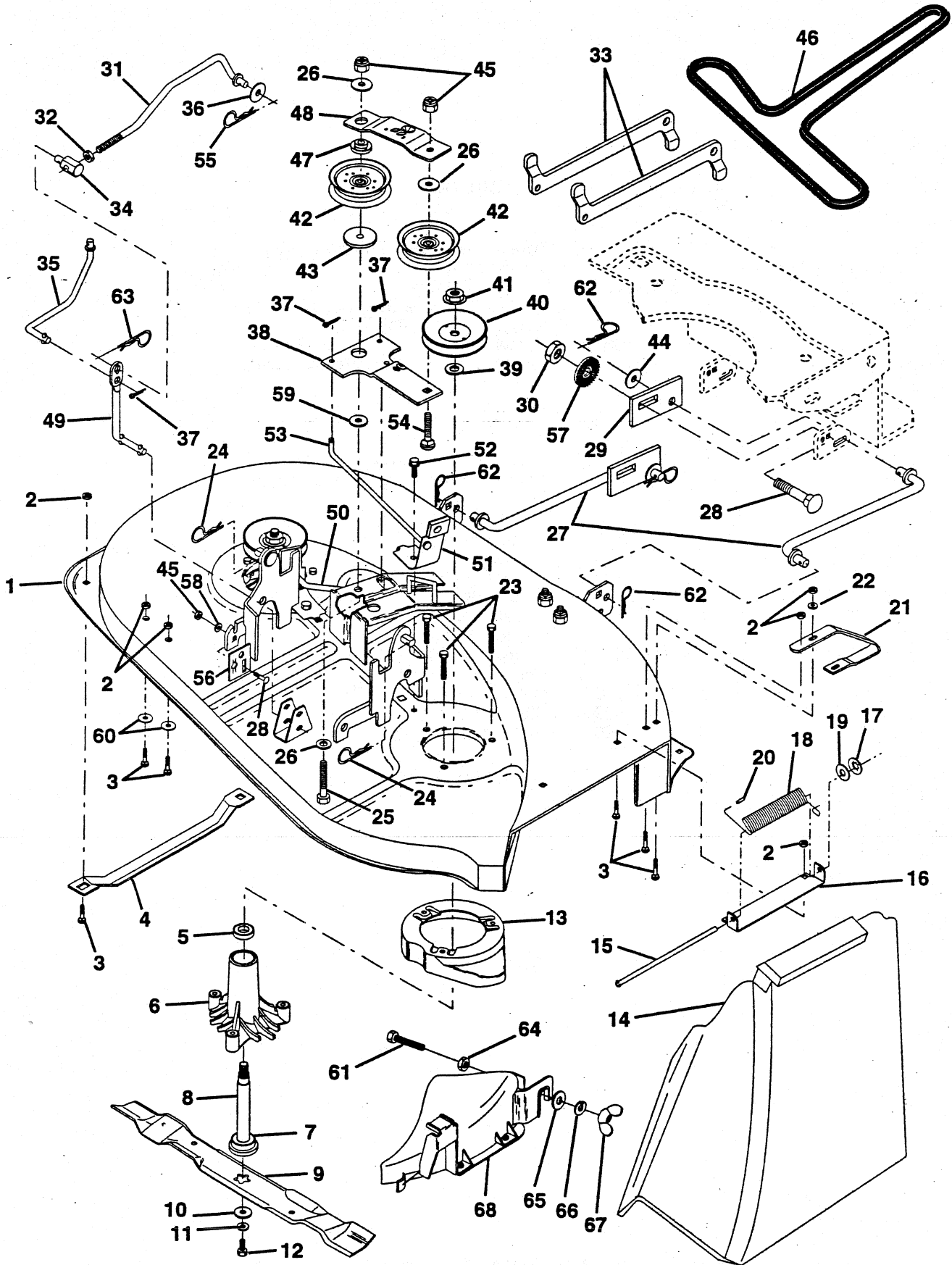
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01
MOWER DECK



REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

MOWER DECK

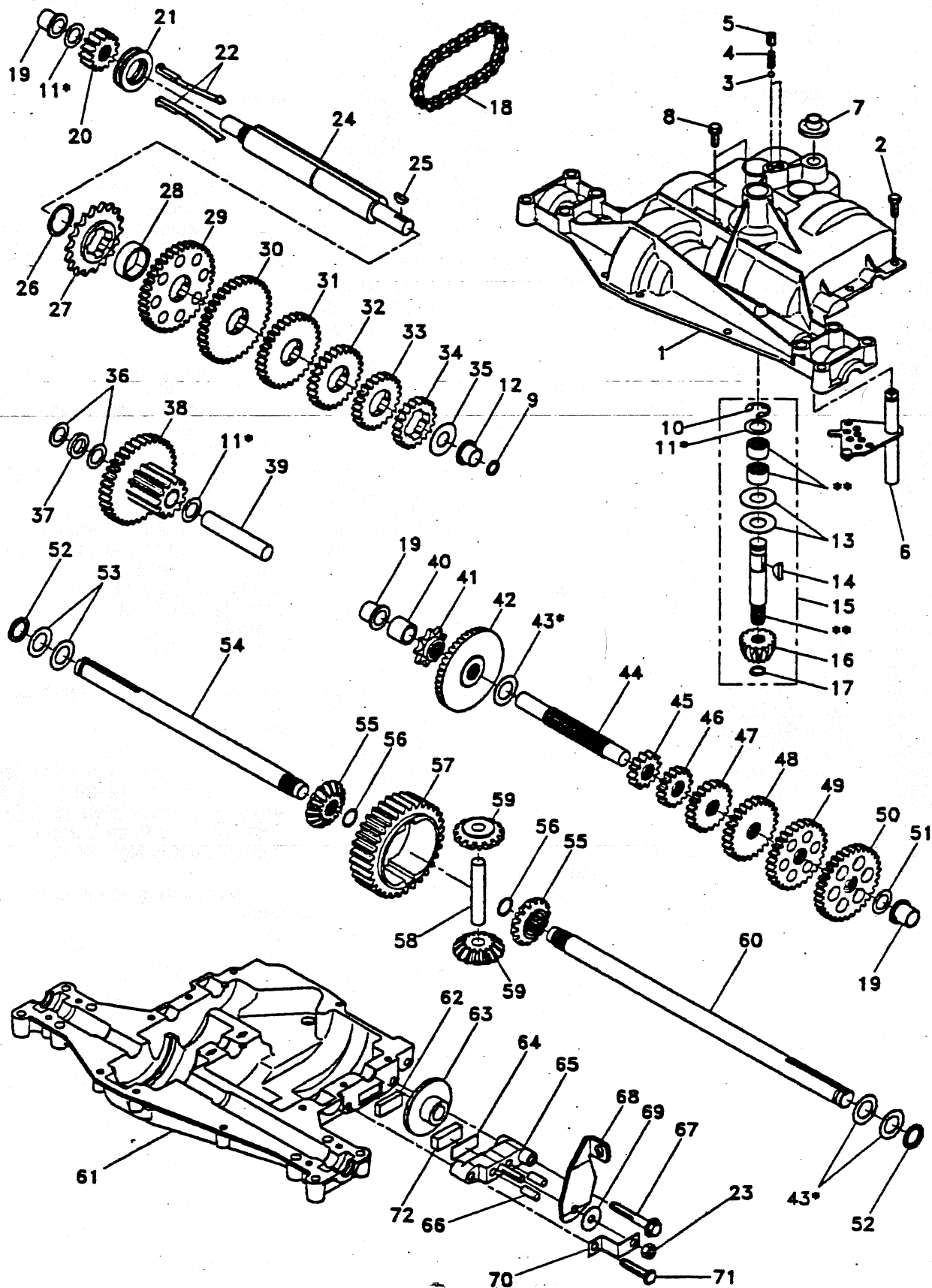
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532142830	Mower Deck Assembly	39	532129963	Washer .150 Thick
2	873680500	Nut, Lock Hx w/Ins 5/16-18	40	532129206	Pulley, Mandrel
3	872140506	Bolt, Carriage 5/16-18 x 3/4	41	532137266	Nut, Flangelock 9/16
4	532125074	Runner, L.H.	42	532121316	Pulley, Flat Idler
5	532110485	Bearing	43	532122052	Spacer, Retainer
6	532128774	Housing, Mandrel	44	819162016	Washer 1/2 x 1-1/4 x 16 Ga.
7	532129895	Bearing	45	873680600	Nut, Crownlock 3/8-16
8	532137645	Shaft and Bearing Assembly, Mandrel (Includes Key Number 7)	46	532144200	Belt
9	532134148	Blade	47	532133502	Spacer, Idler Arm
10	532140296	Washer, Hardened	48	532133503	Stiffener, Idler Arm
11	810030600	Washer, Lock 3/8	49	532133551	Rod, Pivot
12	532850857	Bolt, Hex 3/8-24 x 1-1/4 Grade 8	50	532131289	Rod, Brake, L.H.
13	532140329	Stripper, Mower, Vented	51	532130840	Brake Assembly
14	532106736	Shield, Deflector	52	817490512	Screw, Hex Wsh Hd, Thdrol. 5/16-18 x 3/4
15	532106735	Rod, Hinge	53	532131288	Rod, Brake, R.H.
16	532137607	Bracket Assembly, Deflector	54	872110614	Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5
17	532110452	Pushnut	55	532124961	Spring, Retainer
18	532123713	Spring, Deflector	56	532136782	Adjustment Plate, Rear Link, L.H.
19	819111016	Washer 11/32 x 5/8 x 16 Gauge	57	532144283	Washer 13/32 x 1 Serrated
20	532105304	Cap, Sleeve	58	819131212	Washer 13/32 x 3/4 x 12 Gauge
21	532128772	Runner, R.H.	59	532133943	Washer Hardened
22	819111216	Washer 11/32 x 3/4 x 16 Gauge	60	819111112	Washer 11/32 x 11/16 x 12 Gauge
23	532138776	Bolt 5/16-18 x 1.25	61	874930620	Bolt 3/8-16 x 1-1/4
24	532124670	Retainer, Spring	62	532124660	Retainer Spring
25	874600636	Bolt, Hex 3/8-16 x 2-1/4	63	532124788	Retainer Spring
26	819131612	Washer 13/32 x 1 x 12 Gauge	64	873930600	Nut, Centerlock 3/8-16
27	532139756	Link Assembly, Front	65	819132016	Washer 13/32 x 1-1/4 x 16 Ga.
28	872140608	Bolt, Carriage 3/8-16 x 1	66	810040600	Washer Lock 3/8
29	532139757	Plate Slide Link	67	532135651	Nut Wing
30	873800600	Nut, Lock Hex w/washer 3/8-16	68	532132803	Cover Asm Mulching
31	532140915	Clutch Rod, Primary	--	532130794	Mandrel Assembly (Includes Key Numbers 5-8, 10-12, 39 and 41)
32	873350600	Nut, Hex, Jam 3/8-16	--	532144975	Mower Deck, Complete (Std. Deck Order Mulcher Plate Components Separately Key Nos. 64-69)
33	532132559	Arm, Suspension, Rear			
34	532133604	Trunnion 3/8-16			
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			

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

HARDWARE SHOWN LARGER FOR EASIER IDENTIFICATION

REPAIR PARTS

TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01
TRANSAXLE DANA, MODEL NO. 4360-79



REPAIR PARTS

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TRACTOR-MODEL NO. LR12 (HC12R38D), PRODUCT NO. 954 00 27-01

TRANSAXLE DANA, MODEL NO. 4360-79

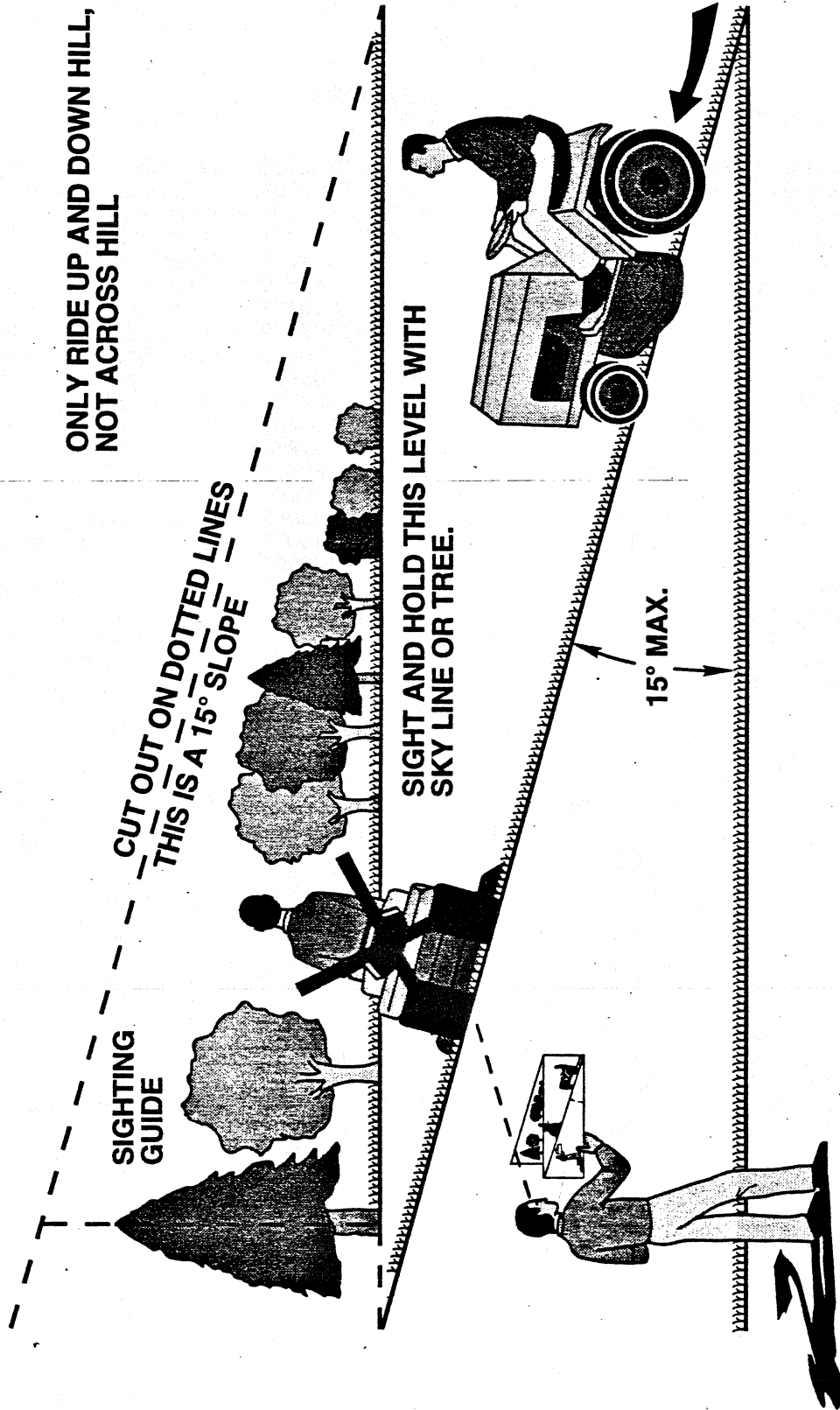
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 532142671	Housing, Upper	41 532105928	Sprocket, 9 Teeth (Reverse)
2 532002274	Screw, Self-Tapping, Large 1/4-20 x .734	42 532110084	Gear, Bevel, 42 Teeth
3 532134400	Ball, Detent	43 532134394	* Assembly, Kit, Shim .750 Shaft
4 532105904	Spring, Detent	44 532120473	Shaft, Drive
5 532105905	Screw, Set	45 532142678	Gear, Spur, 12 Teeth (1-)
6 532138235	Kit, Shifter Assembly	46 532142679	Gear, Spur, 15 Teeth (2-)
7 532134399	Boot, Shifter	47 532120407	Gear, Spur, 20 Teeth (3-)
8 532134791	Screw, Self-Tapping, with Sealer	48 532106589	Gear, Spur, 25 Teeth (4-)
9 532138241	Square Ring	49 532120408	Gear, Spur, 28 Teeth (5-)
10 532142672	Ring, Retaining	50 532105937	Gear, Spur, 31 Teeth (6-)
11 532134793	* Assembly, Kit, Shim .625 Shaft	51 532002226	Washer, Plain .632 x 1.00 x .060
12 532142673	Bearing, Flange	52 532134401	Washer, Neoprene
13 532120415	Washer, Plain .632 x 1.38 x .046	53 532002264	Washer, Plain .758 x 1.25 x .031
14 532142674	Key, Woodruff, #9	54 532120474	Axle, L.H.
15 532138234	Assembly, Kit, Input Shaft	55 532110081	Gear, Miter, 15 Teeth
16 532110078	Pinion, Bevel, 14 Teeth	56 532105941	Ring, Retaining
17 532105909	Ring, Retaining	57 532110071	Gear, Spur, 32 Teeth
18 532105910	Chain, 24 Pitches	58 532120952	Shaft, Cross
19 532105911	Bearing, Flange	59 532110082	Gear, Miter, 15 Teeth
20 532142675	Gear, Spur, 14 Teeth	60 532123908	Axle, R.H.
21 532138246	Collar, Clutch	61 532142680	Housing, Lower
22 532138236	Assembly, Kit, Clutch Keys	62 532120961	Puck, Friction
23 873810500	Locknut 5/16-24	63 532007294	Disc, Brake
24 532142676	Shaft, Intermediate	64 532108989	Spacer
25 532002244	Key, Woodruff, #61	65 532120953	Jaw, Brake
26 532105916	Ring, Retaining	66 532120954	Pin, Dowel
27 532120470	Sprocket, 18 Teeth (Reverse)	67 532134799	Screw, Self-Tapping, Large 5/16-18 x 2.25
28 532110070	Spacer	68 532138244	Lever, Actuating
29 532142677	Gear, Spur, 37 Teeth (1-)	69 532108996	Washer, Plain .321 x 1.00 x .055
30 532142681	Gear, Spur, 35 Teeth (2-)	70 532120956	Bracket, Anti-Rotation
31 532120405	Gear, Spur, 30 Teeth (3-)	71 532106596	Screw, Self-Tapping, Large 5/16-18 x 1.44
32 532108980	Gear, Spur, 25 Teeth (4-)	72 532120951	Puck, Friction
33 532120406	Gear, Spur, 22 Teeth (5-)	73 532120416	Grease
34 532134796	Gear, Spur, 19 Teeth (6-)		
35 532105925	Washer, Plain .640 x 1.37 x .061		
36 532002232	Washer, Plain .632 x 1.00 x .026		
37 532108978	Spacer .630 x 1.00 x .169		
38 532110079	Assembly, Gear, Combination of 12 Teeth and 35 Teeth		
39 532124639	Shaft, Idler		
40 532120472	Spacer .635 x .875 x .755		

* Use in combinations to maintain proper clearances

** Order Key No. 15

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

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 tines).
- (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, Foote, and Tecumseh-Peetless 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

