

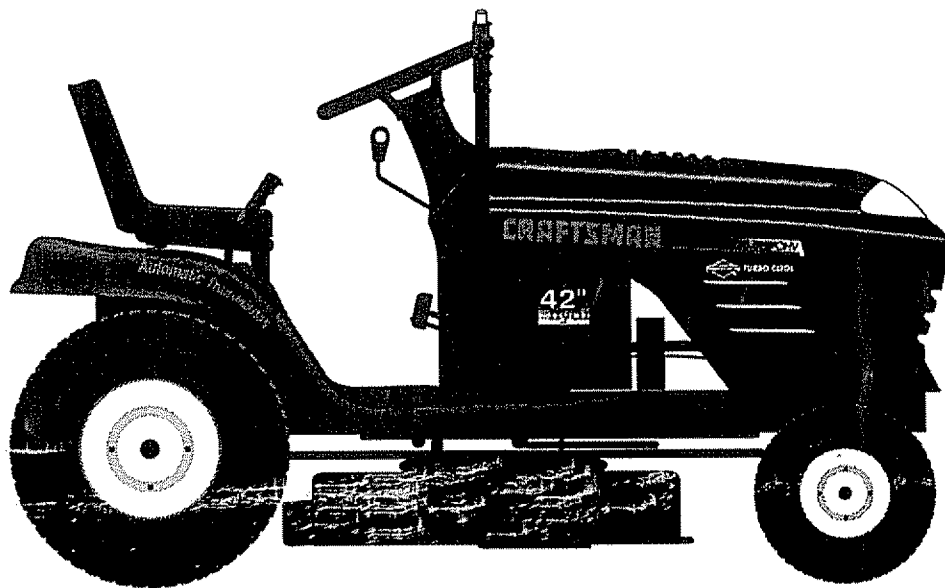
SEARS

CRAFTSMAN®

MODEL NUMBER 917.259830 OWNER'S MANUAL

EZ³

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



This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

For answers to your questions about this product, Call:

1-800-659-5917
Sears Craftsman Help Line
5 am - 5 pm, Mon - Sat

CAUTION: Read and follow all safety rules and instructions before operating this equipment.
FOR CONSUMER ASSISTANCE HOT LINE, CALL THIS TOLL FREE NUMBER: 1-800-659-5917

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.



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.

WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

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

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

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

| | |
|--|------------|
| MODEL NUMBER | 917.259830 |
| SERIAL NUMBER | _____ |
| DATE OF PURCHASE | _____ |
| THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT. | |
| YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE. | |

PRODUCT SPECIFICATIONS

| | |
|-----------------------------|---|
| HORSEPOWER: | 15.5 |
| GASOLINE CAPACITY AND TYPE: | 1.25 GALLONS UNLEADED REGULAR |
| OIL TYPE (API-SF/SG/SH): | SAE 30 (above 32°F) SAE 5W-30 (below 32°F) |
| OIL CAPACITY: | 3.0 PINTS |
| SPARK PLUG: (GAP: .030") | CHAMPION RJ19LM |
| VALVE CLEARANCE: | INTAKE: .005" - .007" EXHAUST: .009" - .011" |
| GROUND SPEED (MPH): | FORWARD: 0 - 5.5 REVERSE: 0 - 2.4 |
| TIRE PRESSURE: | FRONT: 14 PSI REAR: 10 PSI |
| CHARGING SYSTEM: | 3 AMPS BATTERY 5 AMPS HEADLIGHTS |
| BATTERY: | AMP/HR: 25 MIN. CCA: 190 CASE SIZE: U1R |
| BLADE BOLT TORQUE: | 27-35 FT. LBS. |

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any

unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required law (Section 4442 of the California Public Resource Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center/Department (See REPAIR PARTS section of this manual).

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

IN-HOME WARRANTY SERVICE ON YOUR CRAFTSMAN RIDING EQUIPMENT IS AVAILABLE AT NO-CHARGE FOR 30 DAYS FROM THE DATE OF PURCHASE. PLEASE CONTACT YOUR NEAREST SERVICE CENTER. AFTER 30 DAYS FROM THE DATE OF PURCHASE, WARRANTY SERVICE IS AVAILABLE BY TAKING YOUR CRAFTSMAN RIDING EQUIPMENT TO YOUR NEAREST SEARS SERVICE CENTER. (IN-HOME WARRANTY SERVICE WILL STILL BE AVAILABLE AFTER 30 DAYS FROM THE DATE OF PURCHASE BUT A STANDARD TRIP CHARGE WILL APPLY.) THIS WARRANTY APPLIES ONLY WHILE THIS PRODUCT IS IN THE UNITED STATES.

This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, IL 60179

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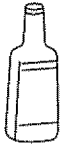

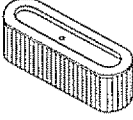
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ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available through most Sears retail outlets and service centers when the tractor was purchased. Most Sears stores can order these items for you when you provide the model number of your tractor.

ENGINE

| SPARK PLUG | GAS CAN | ENGINE OIL | FUEL STABILIZER | AIR FILTER |
|---|---|---|---|--|
|  |  |  |  |  |

MAINTENANCE

| BLADES | BELTS |
|---|---|
|  |  |

PERFORMANCE

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. **Contact your nearest Sears store for the accessories and attachments that are available for your tractor.**

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in. Steel weight tray for increased penetration.

BAGGER lets you collect grass clippings and leaves for a healthier, neater looking lawn. Two Permanex containers hold 30-gallon plastic bags.

BUMPER protects front end of tractor from damage.

CARTS make hauling easy. Variety of sizes available, plus accessories such as side panel kits, tool caddy, cart cover, protective mat and dolly.

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips. 150 lb. capacity weight tray.

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain.

GANG HITCH lets you tow 2 or 3 pull-behind attachments at once, such as sweepers, dethatchers, aerators (not for use with rollers, carts or other heavy attachments).

GAUGE WHEELS on both sides of the mower deck reduce chances of "scalping" on uneven terrain. For mower decks not so equipped.

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting. **HIGH PERFORMANCE REEL-ACTION SPRING TINE DETHATCHER** covers 36-inch wide path and tosses thatch into large hopper. Mounts behind tractor.

MULCHING CLOSE-OUT PLATE KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3-in-1 Convertible mowers. See "MOWER" in the Repair Parts section of this manual.

RAMP TOPS AND FEET let you load and unload tractor from a pickup truck. Use with 2 x 8 or 2 x 10 lumber.

ROLLER for smoother lawn surface. 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum.

SNOW BLADE for snow removal only. 14-inch high, 48-inch wide blade clears 42-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

SNOWTHROWER has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains and wheel weights and/or rear drawbar weight.)

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides and liquid fertilizers.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular deicers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! **Optional accessories** convert unit for dethatching, aerating, hilling... without tools.

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. **Optional accessories include:** tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

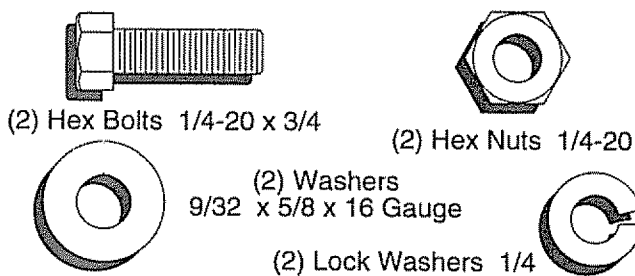
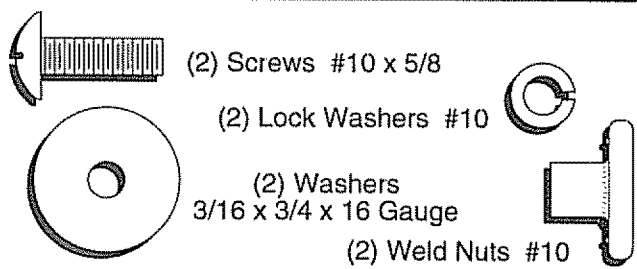
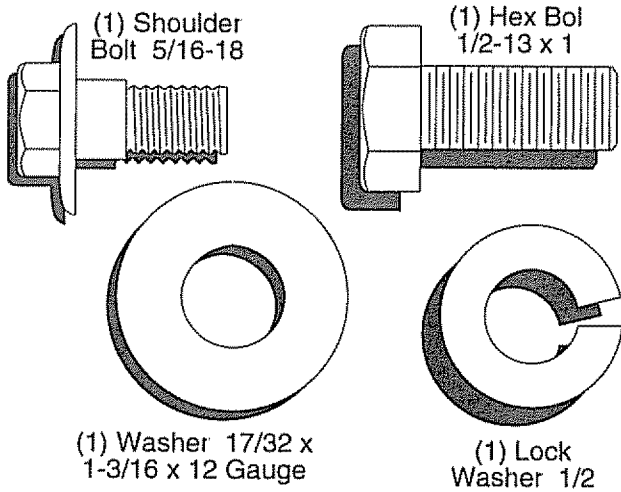
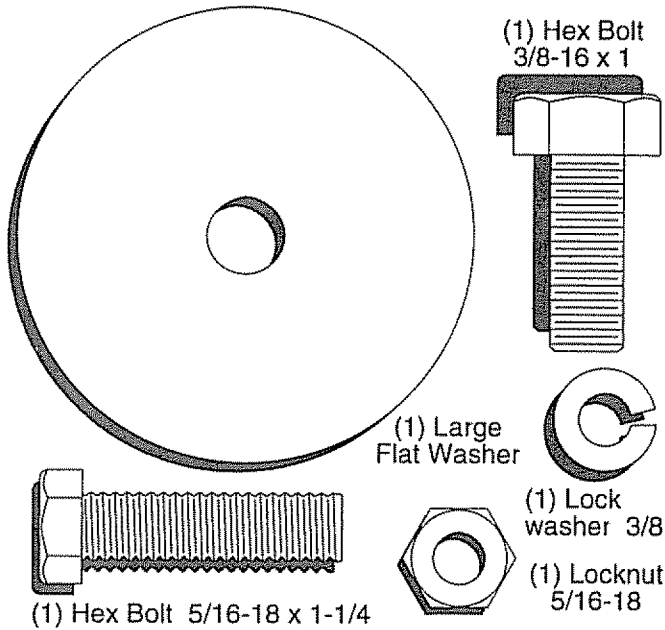
VACS for powerful collection of heavy grass clippings and leaves. **Optional wand attachment** to pick up debris in hard-to-reach places. **VAC/CHIPPER** includes a chipper-shredder.

WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

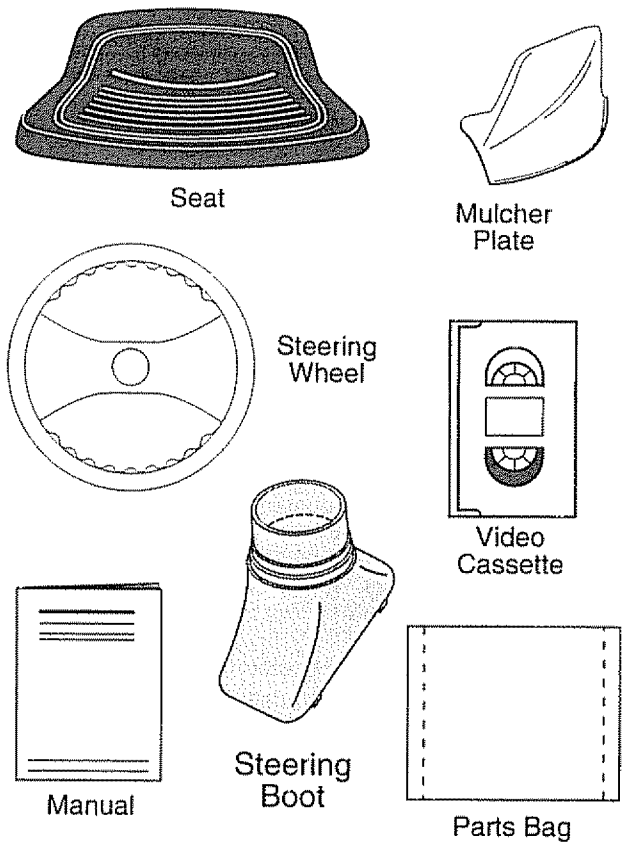
WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

CONTENTS OF HARDWARE PACK

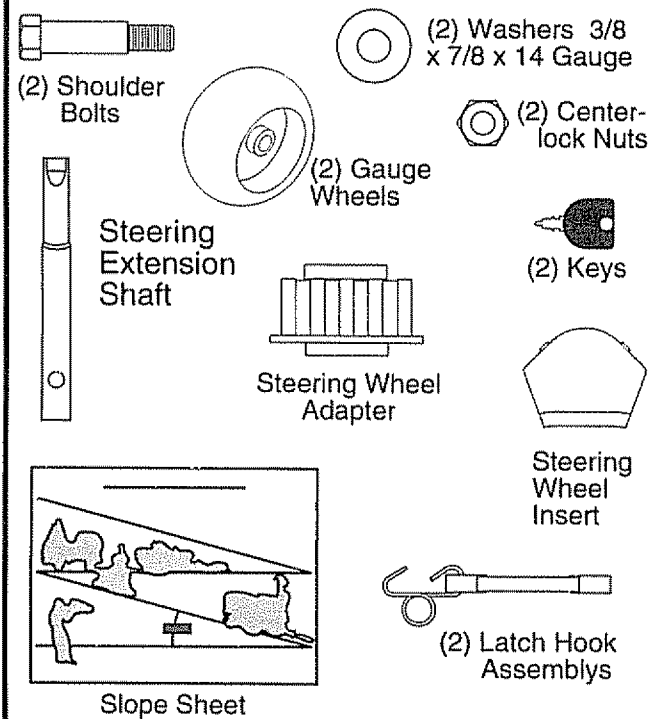
Parts Bag contents shown full size



Parts packed separately in carton



Parts bag contents not shown full size



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (2) 7/16" wrenches
- (1) 1/2" wrench
- (1) 9/16" wrench
- (1) 3/4" Socket w/drive ratchet
- Phillips Screwdriver
- Tire pressure gauge
- Utility knife

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

TO REMOVE TRACTOR FROM CARTON UNPACK CARTON

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

BEFORE ROLLING TRACTOR OFF SKID ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

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

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

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

INSTALL STEERING WHEEL

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

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

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 freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).

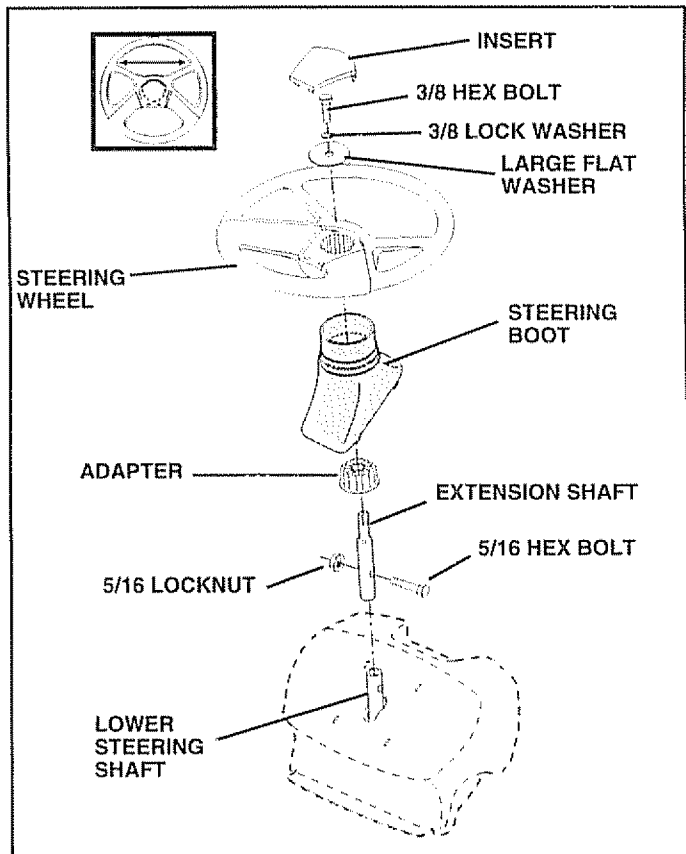


FIG. 1

- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Figs. 2 and 3)



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

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

- Remove cardboard packing from seat pan and lift seat pan to raised position.
- Open battery box door and remove protective plastic.
- 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.

ASSEMBLY

- 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.

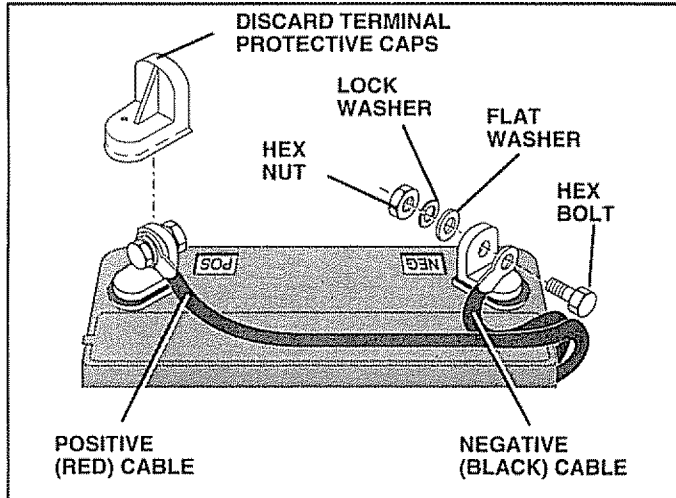


FIG. 2

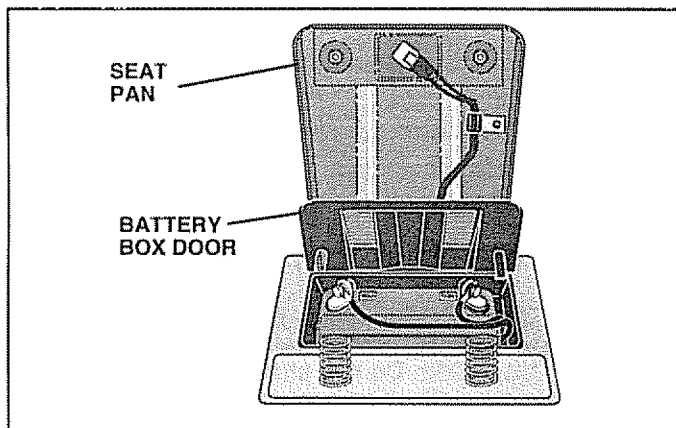


FIG. 3

INSTALL SEAT (See Fig. 4)

Adjust seat before tightening adjustment bolt.

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

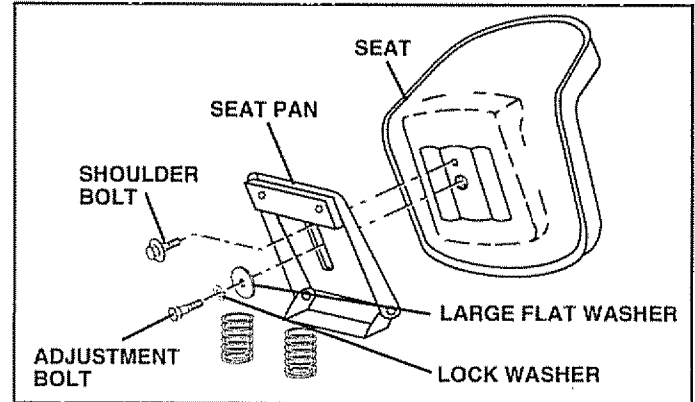


FIG. 4

ASSEMBLE GAUGE WHEELS TO MOWER DECK (See Fig. 5)

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

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

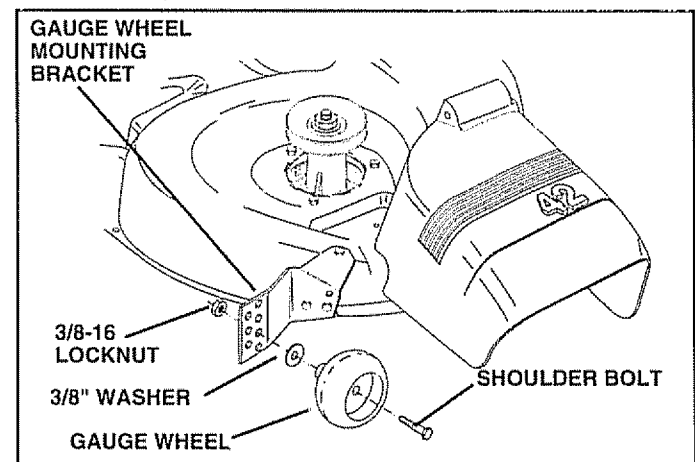


FIG. 5

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 PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

CHECK DECK LEVELNESS

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

ASSEMBLY

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. 6 & 7)

- Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

NOTE: Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

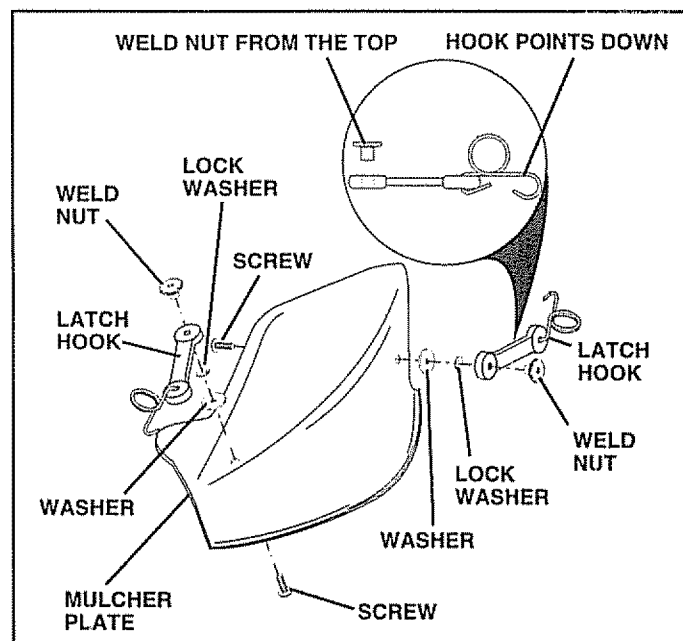
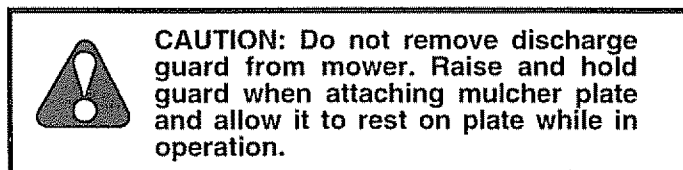


FIG. 6

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.

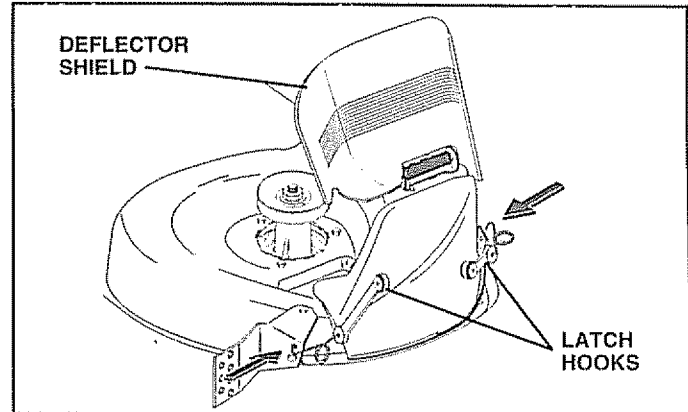


FIG. 7

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

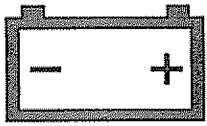
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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

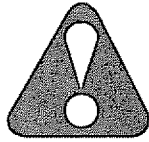
- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.
- ✓ It is important to purge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

OPERATION

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



BATTERY



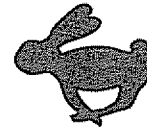
CAUTION OR WARNING



REVERSE



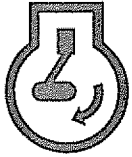
FORWARD



FAST



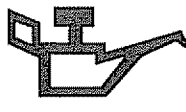
SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



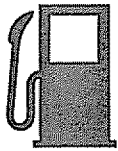
CLUTCH



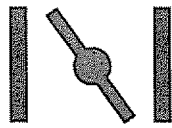
LIGHTS ON



OVER TEMP LIGHT



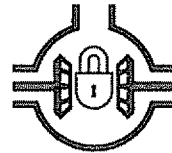
FUEL



CHOKE



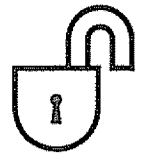
MOWER HEIGHT



DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT

R

REVERSE

N

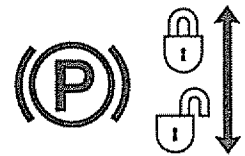
NEUTRAL

H

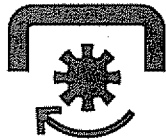
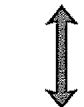
HIGH

L

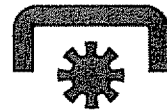
LOW



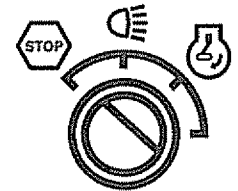
PARKING BRAKE



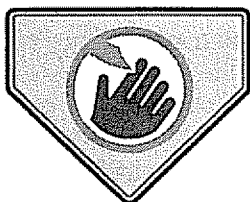
ATTACHMENT CLUTCH ENGAGED



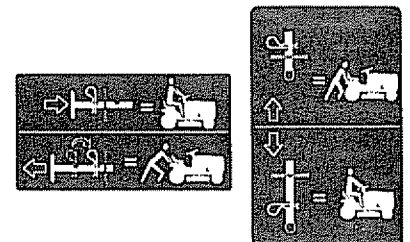
ATTACHMENT CLUTCH DISENGAGED



IGNITION



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL (Hydro Models only)

OPERATION

KNOW YOUR TRACTOR

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

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

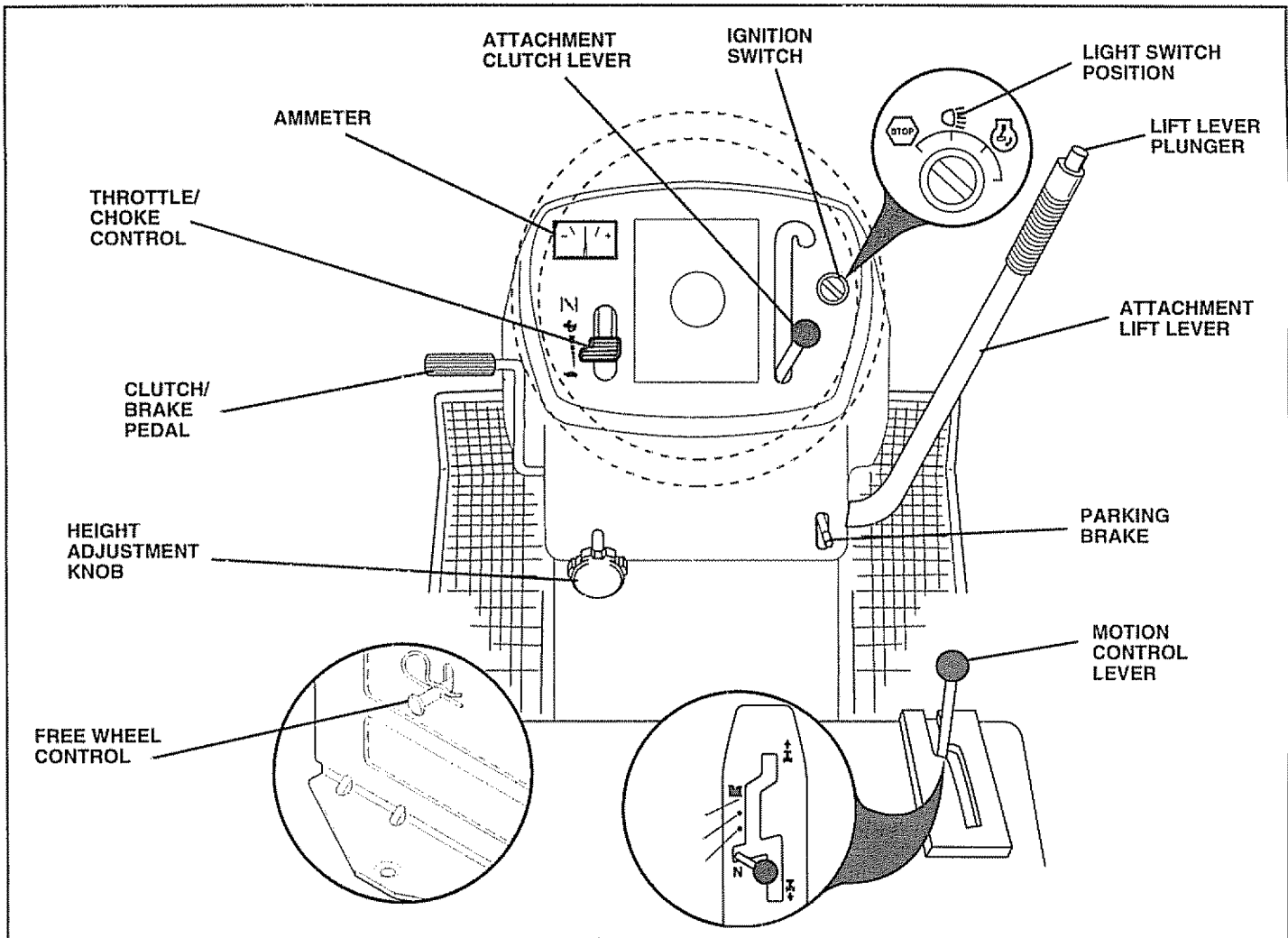


FIG. 8

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

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

LIGHT SWITCH: Turns the headlights on and off.

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

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

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

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

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

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

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

AMMETER: Indicates battery charging (+) or discharging (-).

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. 9)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

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

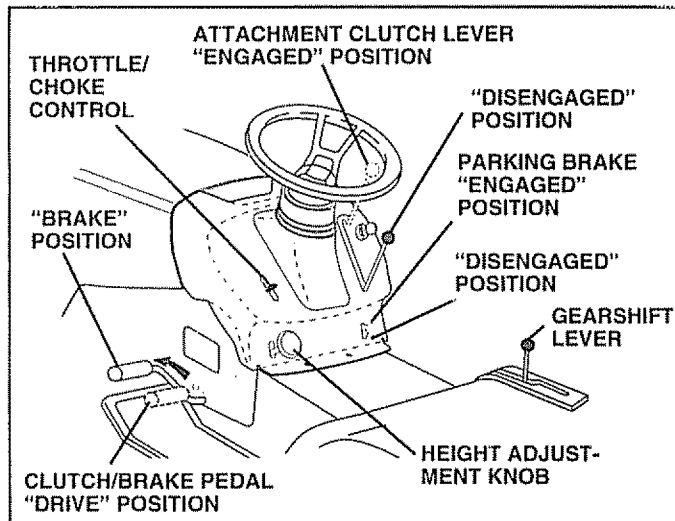


FIG. 9

STOPPING (See Fig. 9)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

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

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

ENGINE -

- Move throttle control to slow position.

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

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

NOTE: Under certain conditions when 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 Fig. 9)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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

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

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

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

OPERATION

TO OPERATE MOWER (See Fig. 10)

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

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



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

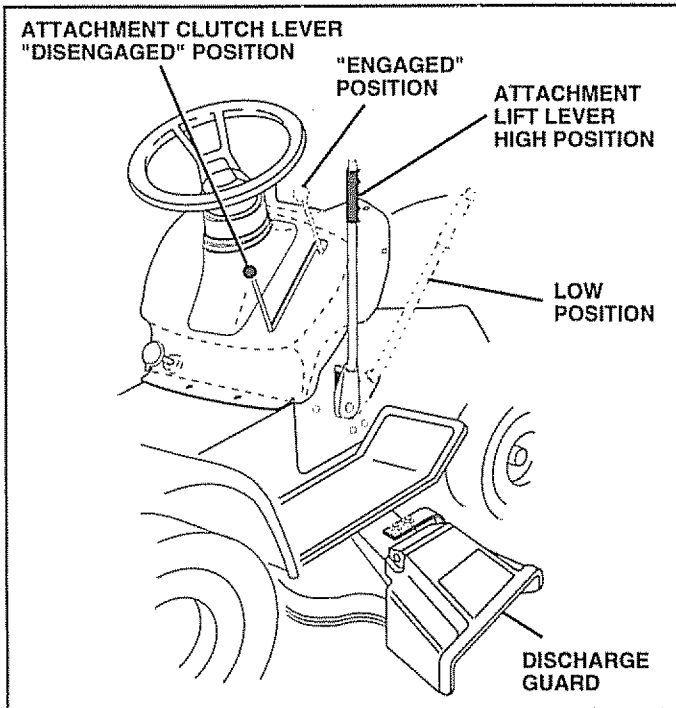


FIG. 10

TO OPERATE ON HILLS



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

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

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

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

TO TRANSPORT (See Figs. 8 and 11)

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

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

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

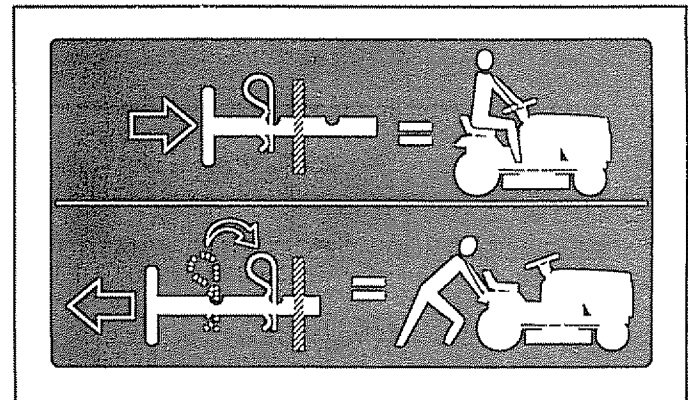


FIG. 11

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 17)

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

OPERATION

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline 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. 9)

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

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

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

HYDROSTATIC TRANSMISSION WARM UP

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

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

PURGE TRANSMISSION



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

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

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

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

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

- Move motion control lever to neutral (N) position. Shut-off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).

OPERATION

- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and now ready for normal operation.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- 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.

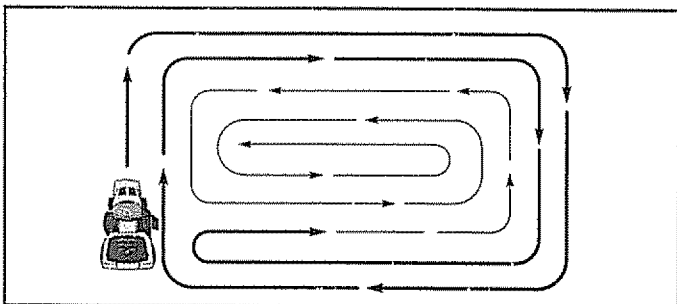


FIG. 12

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

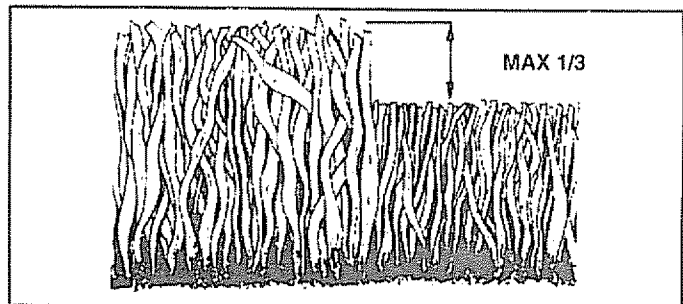


FIG. 13

CUSTOMER RESPONSIBILITIES

| MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE | | SERVICE DATES | | | | | | | | | | | | | | | | |
|---|-------------------------------------|-----------------|---------------|----------------|--------------------|-----------------|----------------|----------------|------------------|---|---|--|--|--|--|--|--|--|
| | | BEFORE EACH USE | EVERY 8 HOURS | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY SEASON | BEFORE STORAGE | | | | | | | | | | |
| TRACTOR | Check Brake Operation | ✓ | ✓ | | | | | | | | | | | | | | | |
| | Check Tire Pressure | ✓ | ✓ | | | | | | | | | | | | | | | |
| | Check 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.

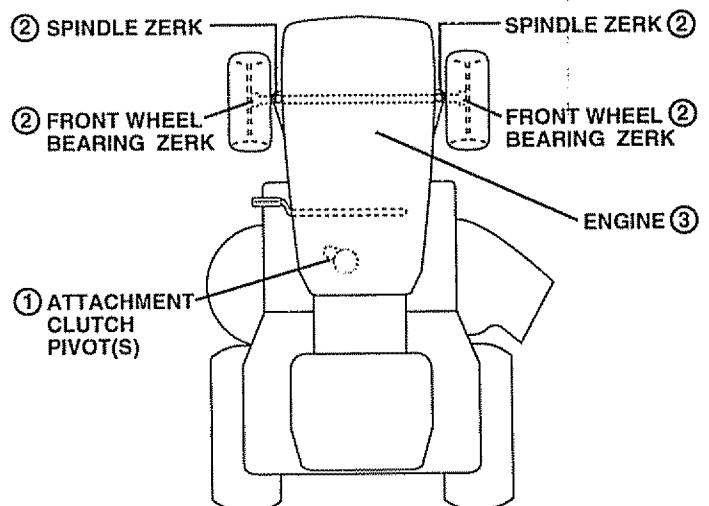
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

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

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.

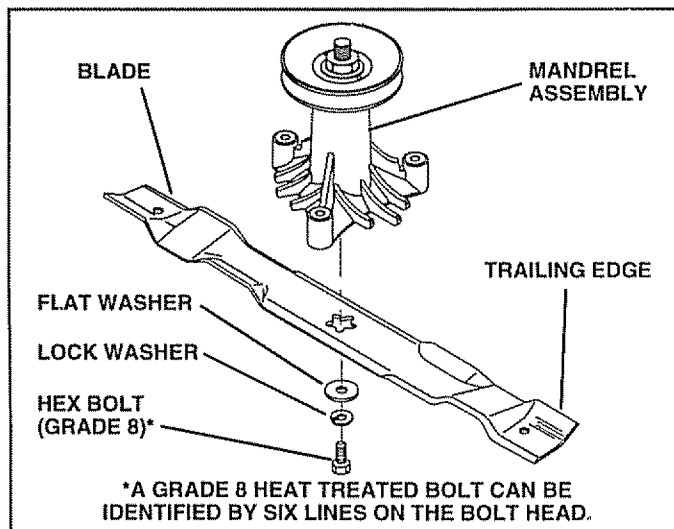


FIG. 14

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.

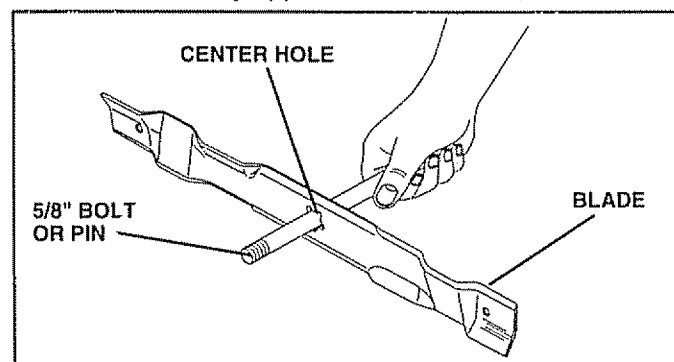


FIG. 15

CUSTOMER RESPONSIBILITIES

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).

V-BELTS

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

TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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

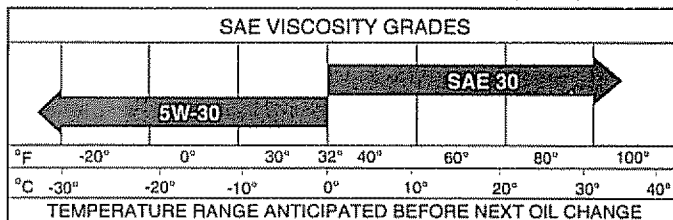


FIG. 16

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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

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

TO CHANGE ENGINE OIL (See Figs. 16 and 17)

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.

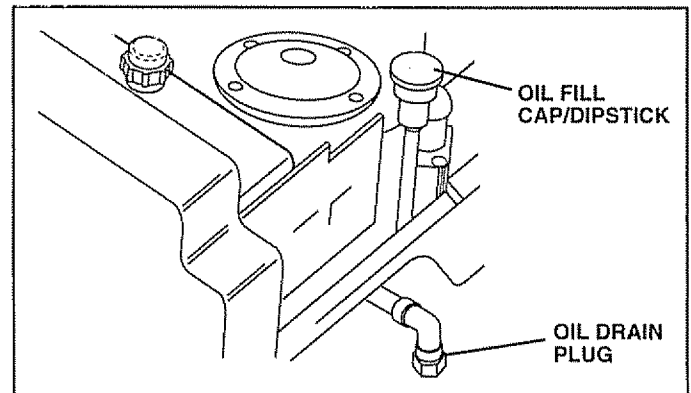


FIG. 17

CUSTOMER RESPONSIBILITIES

AIR FILTER (See Fig. 18)

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

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

TO SERVICE CARTRIDGE

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

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

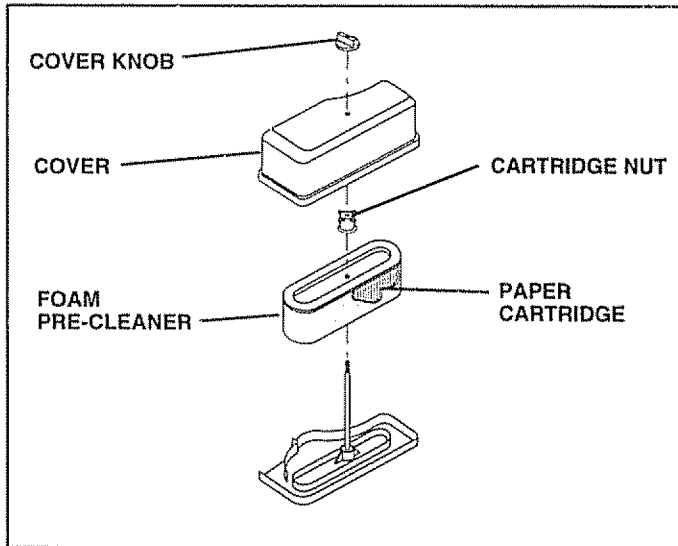


FIG. 18

CLEAN AIR SCREEN (See Fig. 19)

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

ENGINE COOLING FINS (See Fig. 19)

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

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

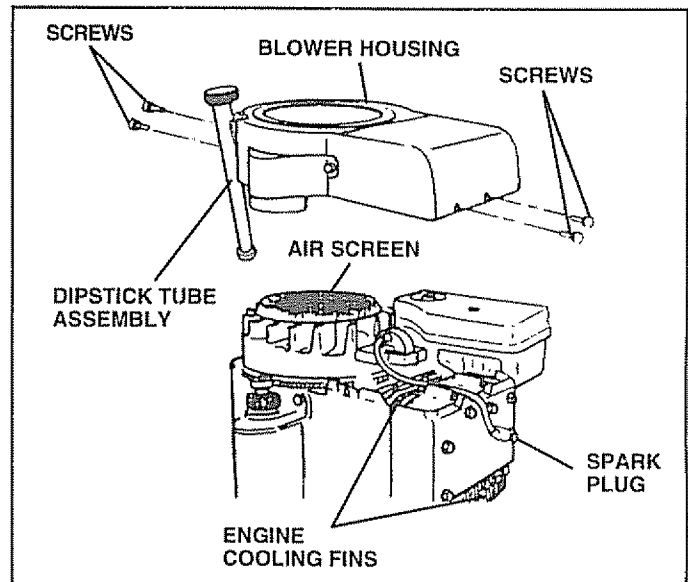


FIG. 19

CUSTOMER RESPONSIBILITIES

MUFFLER

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

SPARK PLUGS

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

IN-LINE FUEL FILTER (See Fig. 20)

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

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

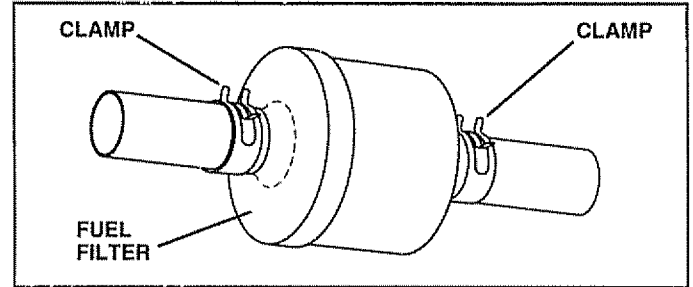


FIG. 20

CLEANING

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

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

SERVICE AND ADJUSTMENTS



CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Fig. 21)

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

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

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

TO INSTALL MOWER (See Fig. 21)

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

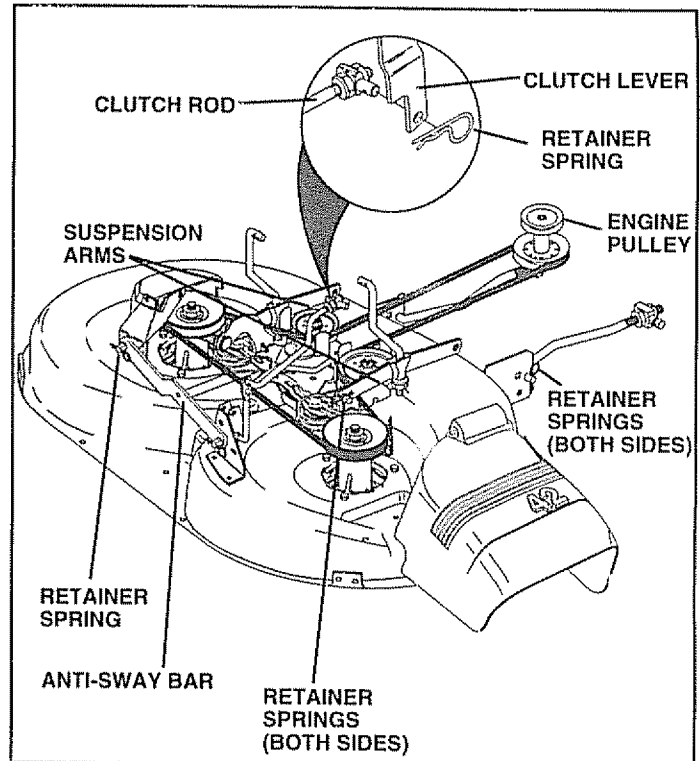


FIG. 21

SERVICE AND ADJUSTMENTS

TO LEVEL MOWER HOUSING

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

SIDE-TO-SIDE ADJUSTMENT (See Figs. 22 and 23)

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

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

- Recheck measurements after adjusting.

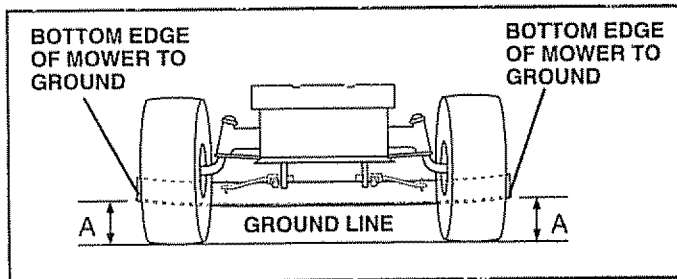


FIG. 22

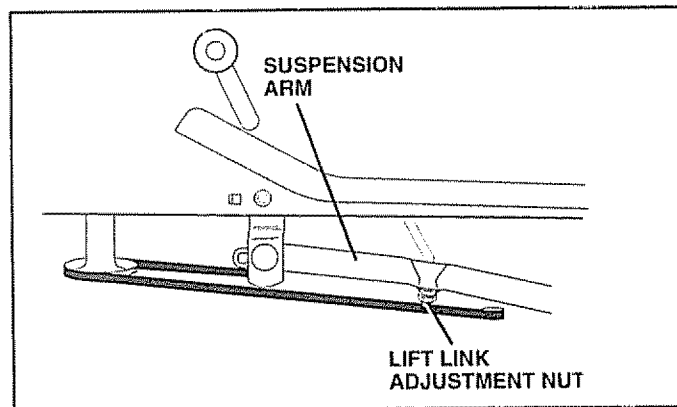


FIG. 23

FRONT-TO-BACK ADJUSTMENT (See Figs. 24 and 25)

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

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

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

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

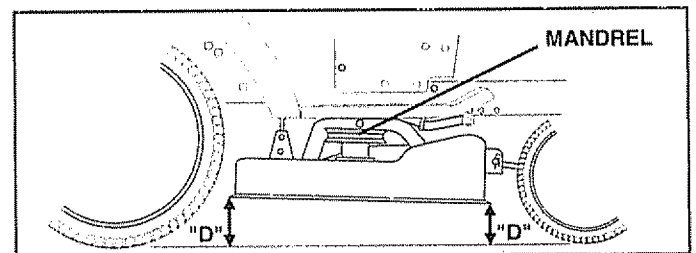


FIG. 24

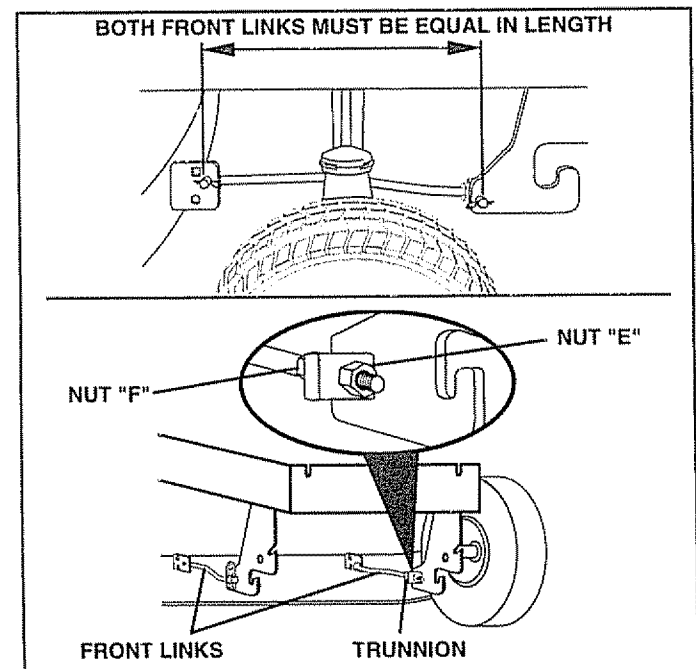


FIG. 25

SERVICE AND ADJUSTMENTS

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 26)

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

BELT REMOVAL -

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

BELT INSTALLATION -

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

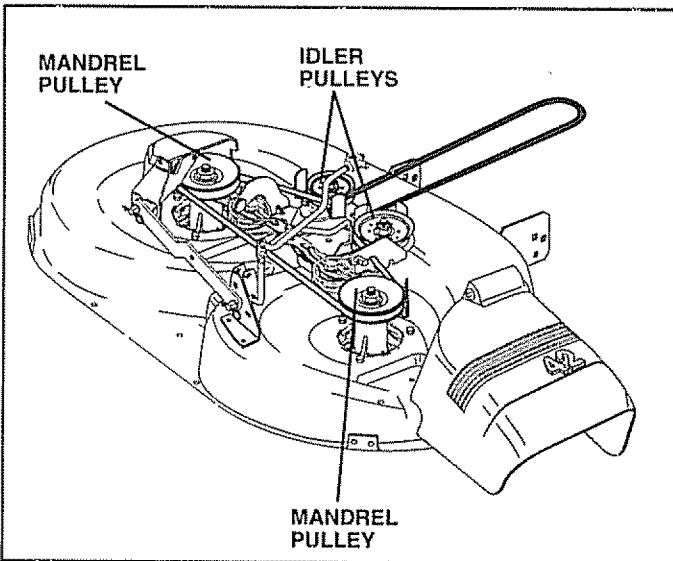


FIG. 26

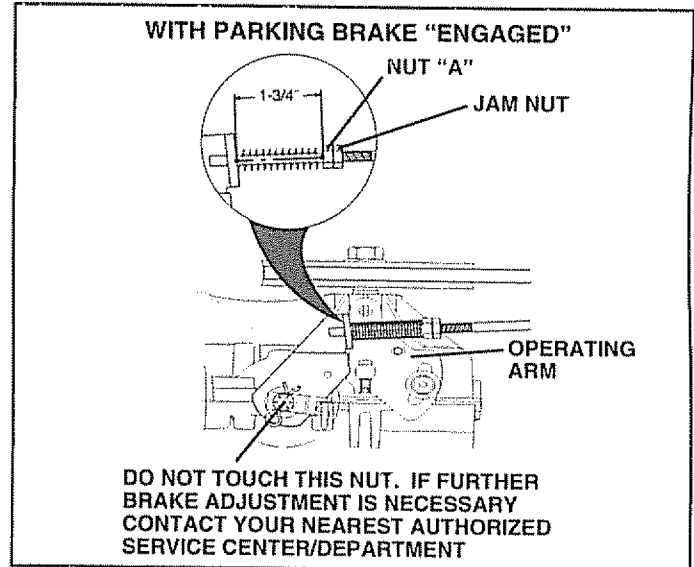


FIG. 27

TO REPLACE MOTION DRIVE BELT (See Fig. 28)

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

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

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

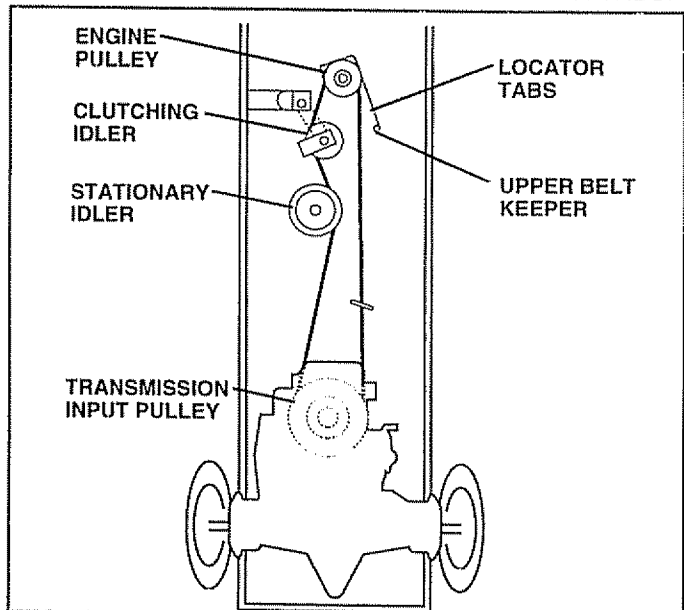


FIG. 28

TO ADJUST BRAKE (See Fig. 27)

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

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

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

SERVICE AND ADJUSTMENTS

TO ADJUST MOTION CONTROL LEVER (See Fig. 29)

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

If for any reason the motion control lever will not hold its position while at a selected speed, it may be adjusted at the friction pack located on the right side of transmission.

- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position, and engage parking brake.
- Adjust motion control lever by tightening adjustment locknut one half (1/2) turn.

NOTE: If for any reason the effort to move the motion control lever becomes too excessive, reverse the above adjustment procedure by loosening locknut 1/4 to 1/2 turn.

Road test tractor after adjustment and repeat procedure if necessary.

TRANSMISSION REMOVAL/REPLACEMENT

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

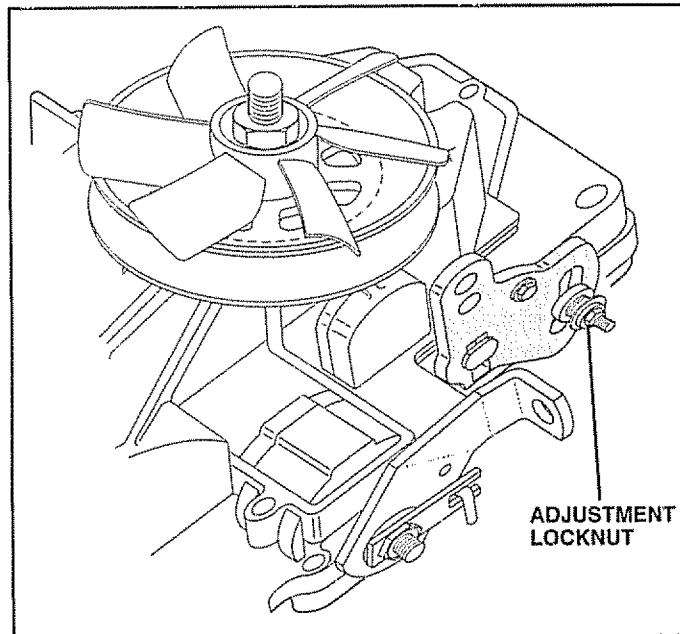


FIG. 29

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS (See Fig. 30)

- 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.

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

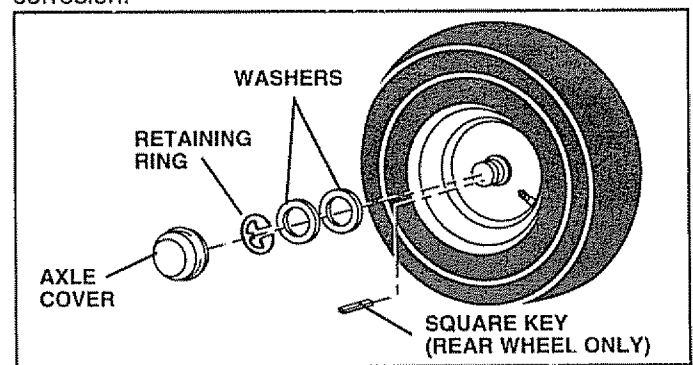


FIG. 30

TO START ENGINE WITH A WEAK BATTERY (See Fig. 31)



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

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

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

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

SERVICE AND ADJUSTMENTS

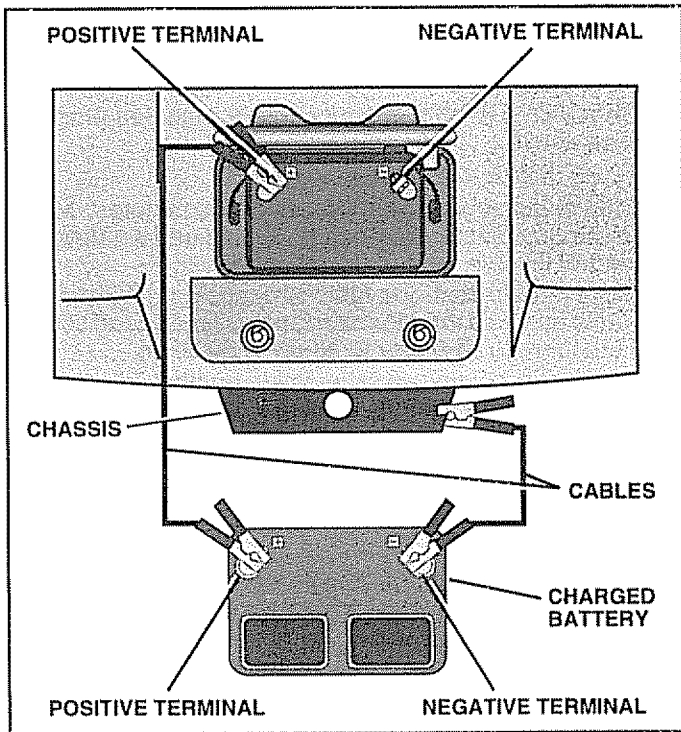


FIG. 31

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 32)

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

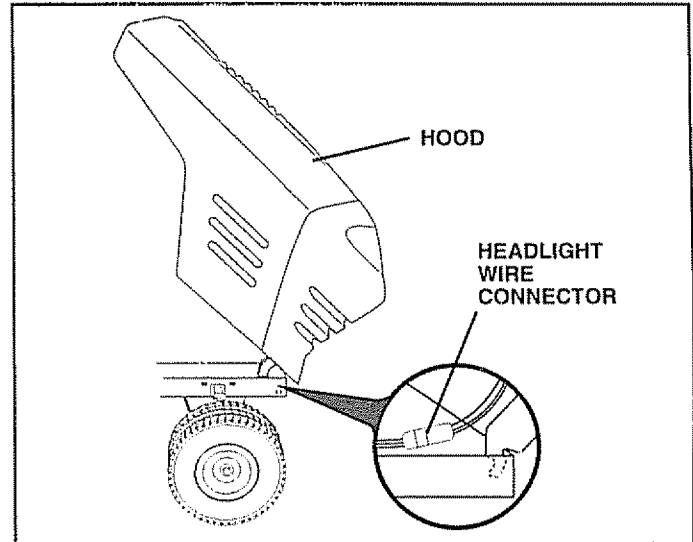


FIG. 32

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 33)

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

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

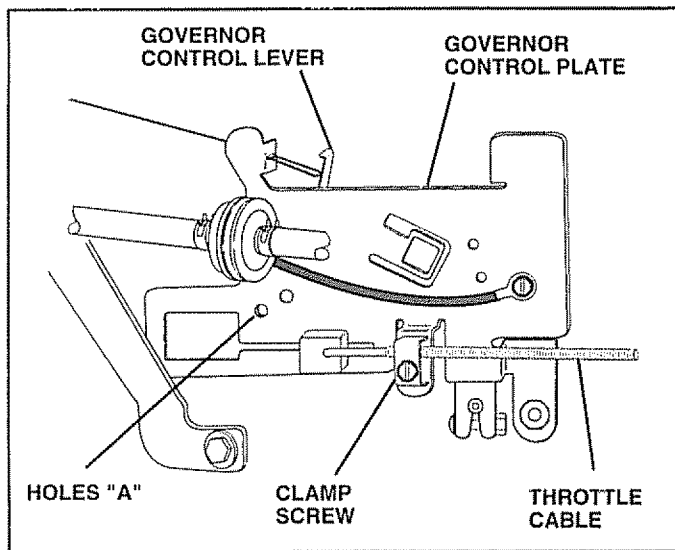


FIG. 33

TO ADJUST CARBURETOR (See Fig. 34)

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

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

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

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

PRELIMINARY SETTING -

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

FINAL SETTING -

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

ACCELERATION TEST -

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

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

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

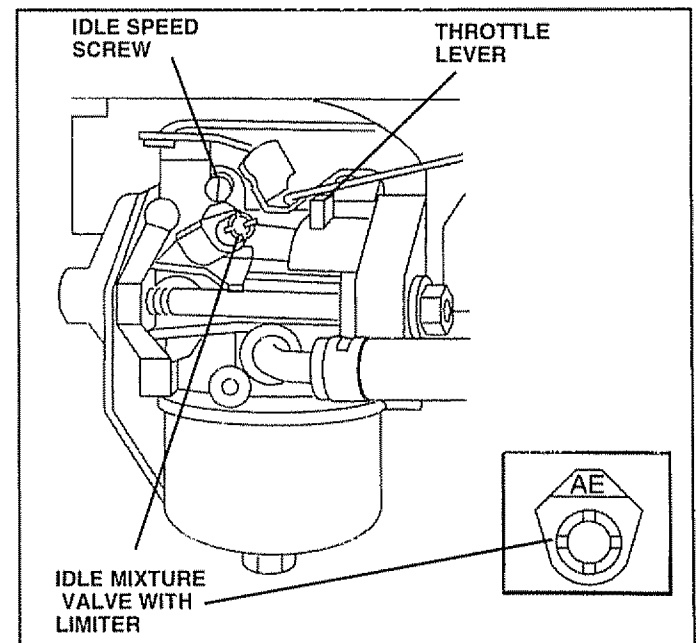


FIG. 34

STORAGE

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



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

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

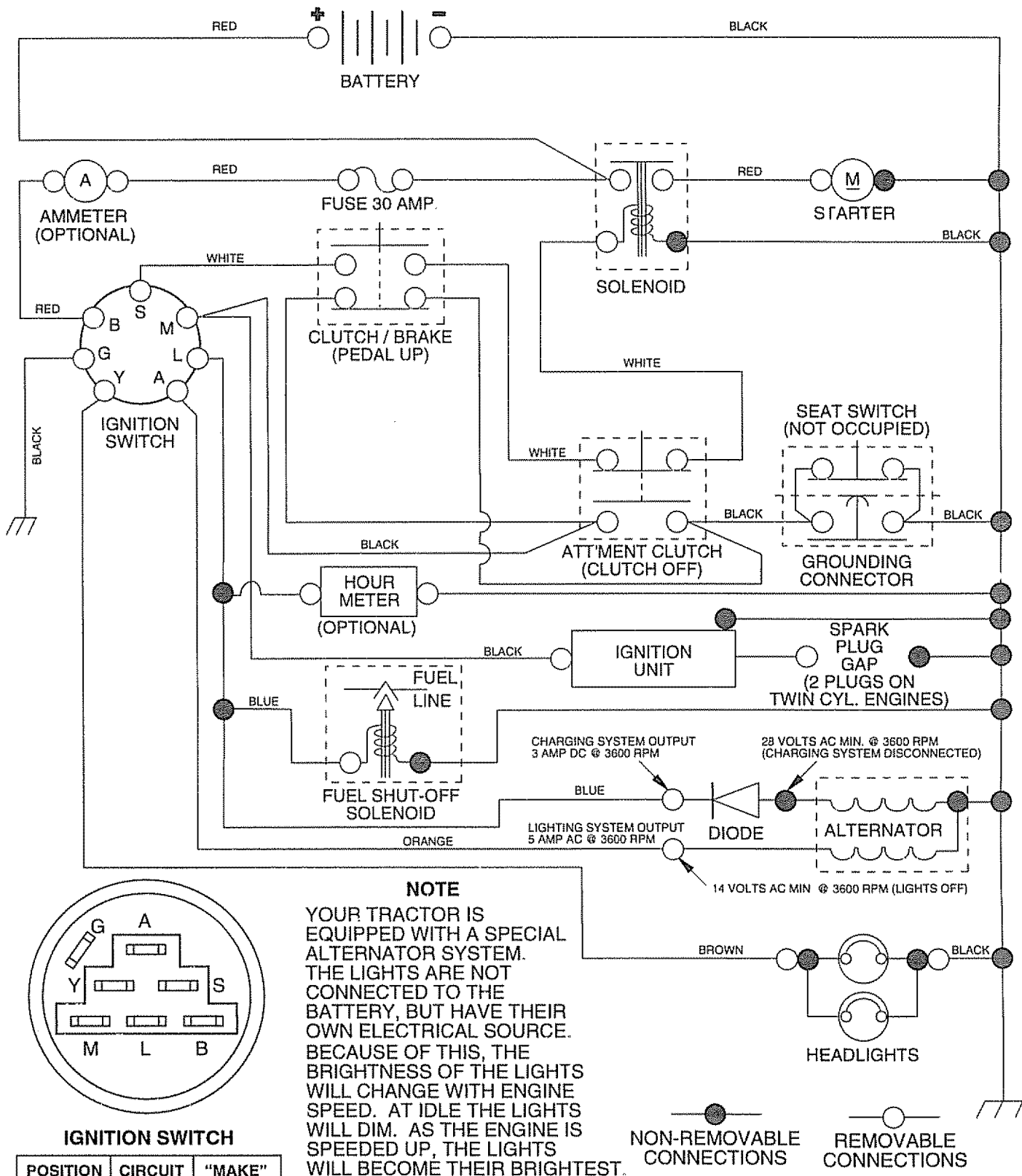
TROUBLESHOOTING POINTS

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

SERVICE NOTES

TRACTOR - - MODEL NUMBER 917.259830

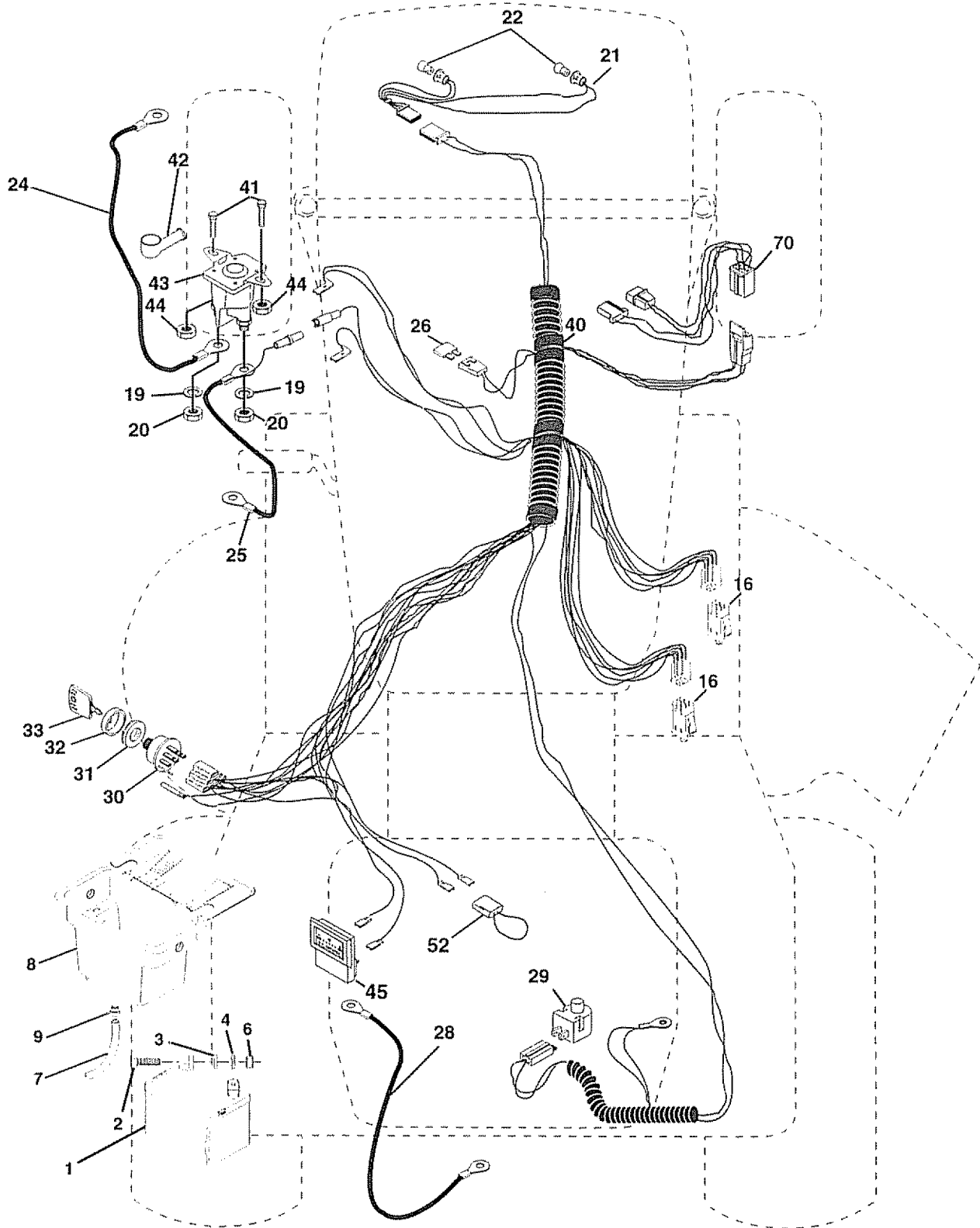
SCHEMATIC



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.259830

ELECTRICAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

ELECTRICAL

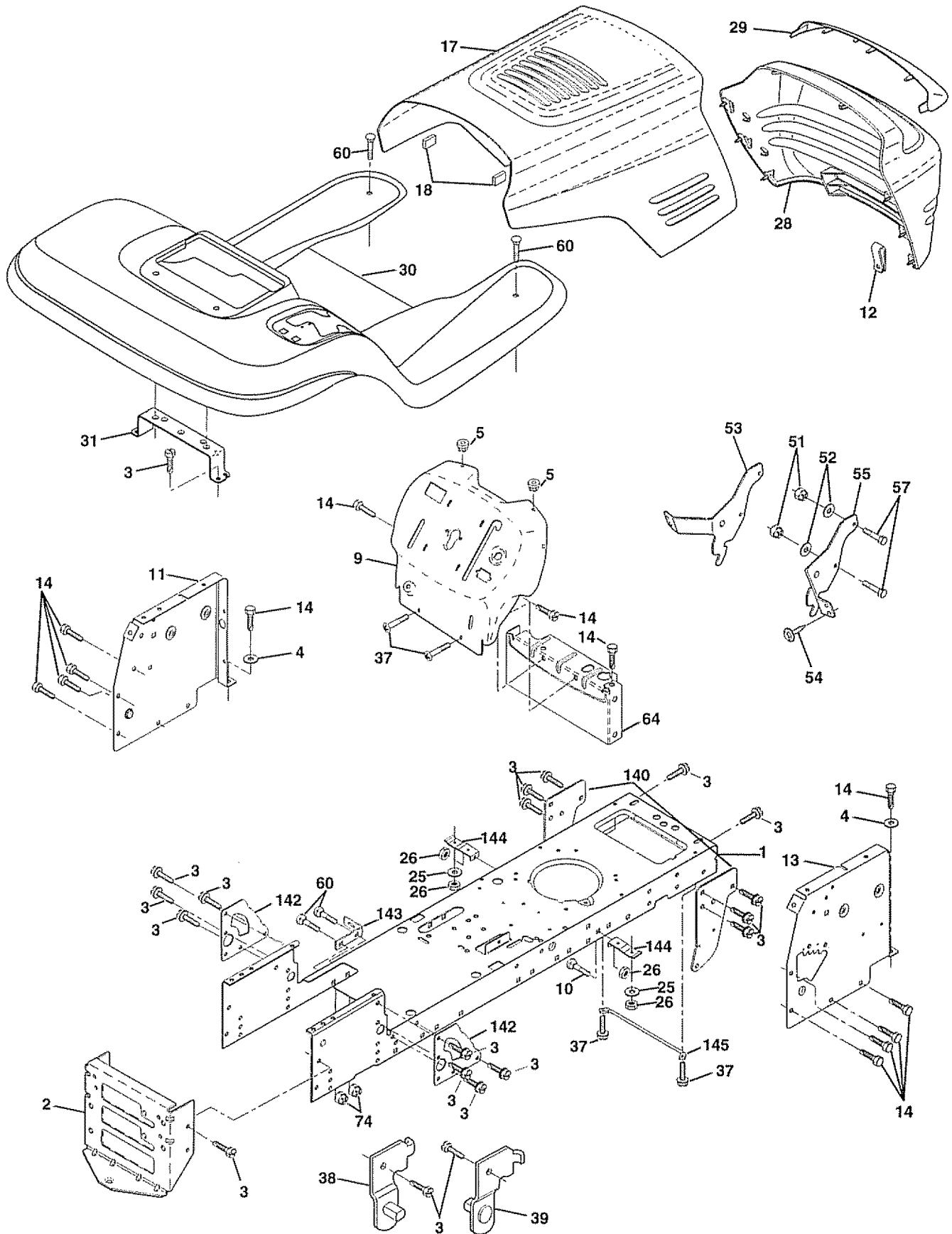
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|--|
| 1 | 144925 | Battery 12 Volt 25 Amp |
| 2 | 74760412 | Bolt, Hex Head 1/4-20 unc x 3/4 |
| 3 | STD551025 | Washer |
| 4 | STD551125 | Washer |
| 6 | STD541025 | Nut |
| 7 | 109238X | Tube, Plastic, 12" |
| 8 | 156417 | Case, Battery Mech Hinge |
| 9 | 109596X | Clamp, Hose |
| 16 | 153664 | Switch, Interlock Push-In |
| 19 | STD551125 | Washer, Lock |
| 20 | 73350400 | Nut, Hex, Jam 1/4-20 UNC |
| 21 | 147430 | Harness, Light Socket (Includes 4152J) |
| 22 | 4152J | Bulb, Light |
| 24 | 4799J | Cable, Battery, 6 Gauge, Red, 11" |
| 25 | 146147 | Cable, Battery, 6 Gauge, Red, W/16 Wire |
| 26 | 108824X | Fuse, 30 Amp |
| 28 | 4207J | Cable, Ground, 6 Gauge, Black, 12" |
| 29 | 121305X | Switch, Plunger |
| 30 | 140301 | Switch, Ignition |
| 31 | 124211X | Nut, Ignition |
| 32 | 141226 | Cover, Key Switch |
| 33 | 109310X | Key, Ignition |
| 40 | 156442 | Harness, Ignition |
| 41 | 71110408 | Bolt, Hex Head, Fin. 1/4-20 x 1/2 |
| 42 | 131563 | Cover, Terminal, Red |
| 43 | 145673 | Solenoid |
| 44 | 73640400 | Nut Keps Blk Hex 1/4-20 UNC |
| 45 | 121433X | Ammeter Rectangular 6 Amp |
| 52 | 141940 | Protection Wire Loop |
| 70 | 140422 | Harness Engine B&S |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

CHASSIS AND ENCLOSURES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

CHASSIS AND ENCLOSURES

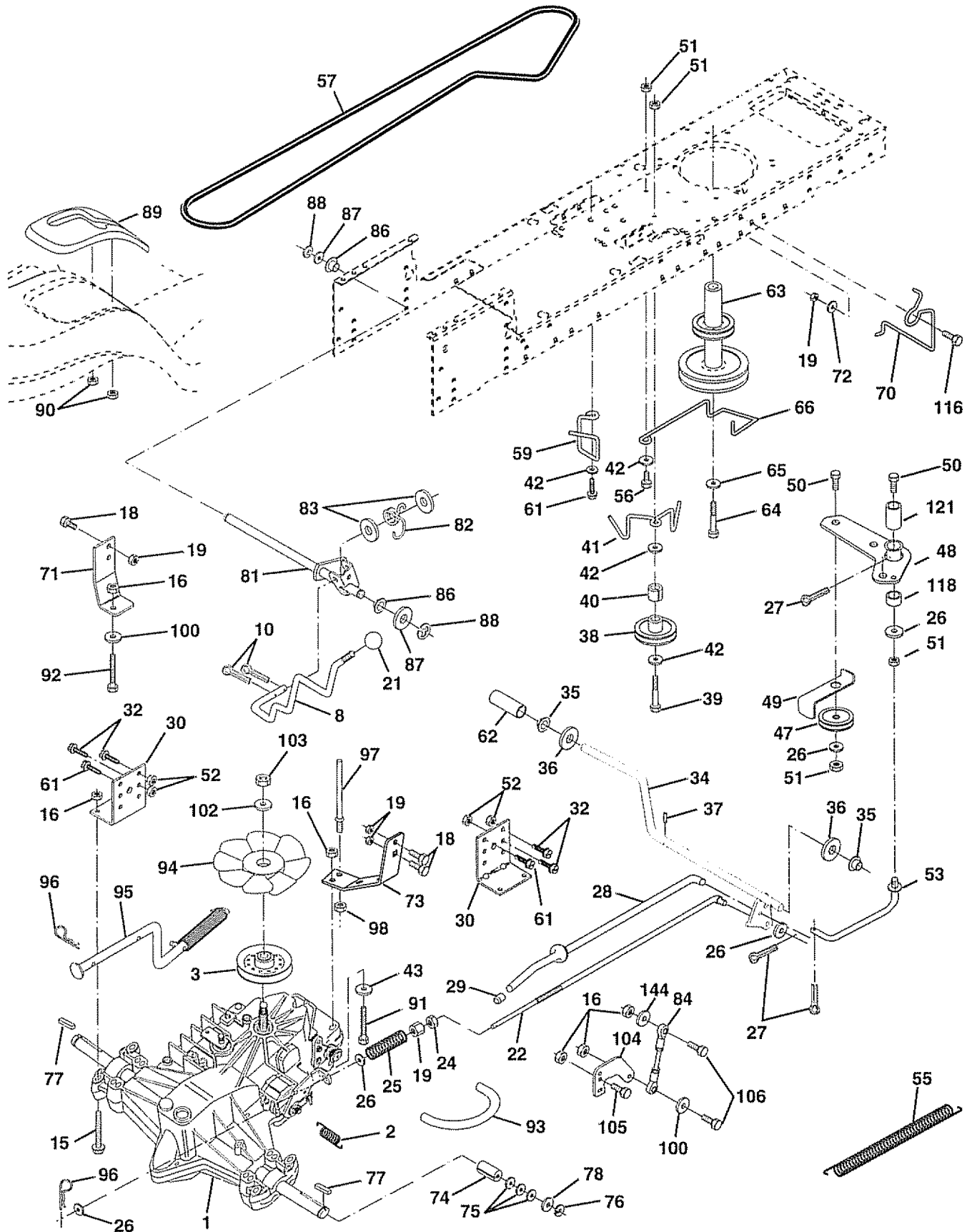
| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|---------------------------------|
| 1 | 159527 | Chassis Assembly |
| 2 | 140356 | Drawbar |
| 3 | 17490612 | Screw, Thd. Roll. 3/8-16 x 3/4 |
| 4 | STD551025 | Washer 13/32 x 3/4 x 16 Gauge |
| 5 | 155272 | Bumper Hood/Dash |
| 9 | 150156X011 | Dash |
| 10 | STD533710 | Bolt, Carriage 3/8-16 x 1 |
| 11 | 155927 | Panel, Dash, L.H. |
| 12 | 145660 | Clip Tinnerman Grille P/L |
| 13 | 155936 | Panel, Dash, R.H. |
| 14 | 17490608 | Screw Thdrol 3/8-16 x 1/2 |
| 17 | 144983X558 | Hood Assembly |
| 18 | 126938X | Bumper Hood |
| 25 | 19131312 | Washer 13/32 x 13/16 x 12 Gauge |
| 26 | STD541437 | Nut |
| 28 | 145198X558 | Grille w/Clips MS-558 |
| 29 | 155217 | Lens, Grille |
| 30 | 151287X558 | Fend/Ftrest Pnt STLT N HLD 558 |
| 31 | 139976 | Bracket, Fender Support |
| 37 | 17490508 | Screw Thdrol 5/16-18 x 1/2 Tyt |
| 38 | 139886 | Pivot Bracket Assembly, L.H. |
| 39 | 139887 | Pivot Bracket Assembly, R.H. |
| 51 | 73800400 | Nut Lock w/Insert 1/4-20 UNC |
| 52 | 19091416 | Washer 9/32 x 7/8 x 16 Ga. |
| 53 | 145201 | Bracket Grille Pickoff LH |
| 54 | 161464 | Screw Hex wshd 8-18 x 7/8 |
| 55 | 145202 | Bracket Grille Pickoff RH |
| 57 | STD522507 | Bolt, Fin Hex 1/4-20 UNC x .75 |
| 60 | STD533707 | Bolt Rdhd Sqnk 3/8-16 UNC x 3/4 |
| 64 | 154798 | Dash Lower STLT |
| 74 | STD541437 | Nut Crownlock 3/8-16 UNC |
| 122 | 157301 | Bracket Shift Stlt |
| 123 | 152927 | Screw |
| 140 | 158418 | Bracket Suspension Front |
| 142 | 156095 | Plate Reinforcement STLT |
| 143 | 154966 | Bracket Swaybar Chassis |
| 144 | 154207 | Bracket Pnt Footrest STLT |
| 140 | 158418 | Bracket Suspension Front |
| 145 | 156524 | Rod Pivot Chassis/Hood |
| -- | 5479J | Plug, Button |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

DRIVE

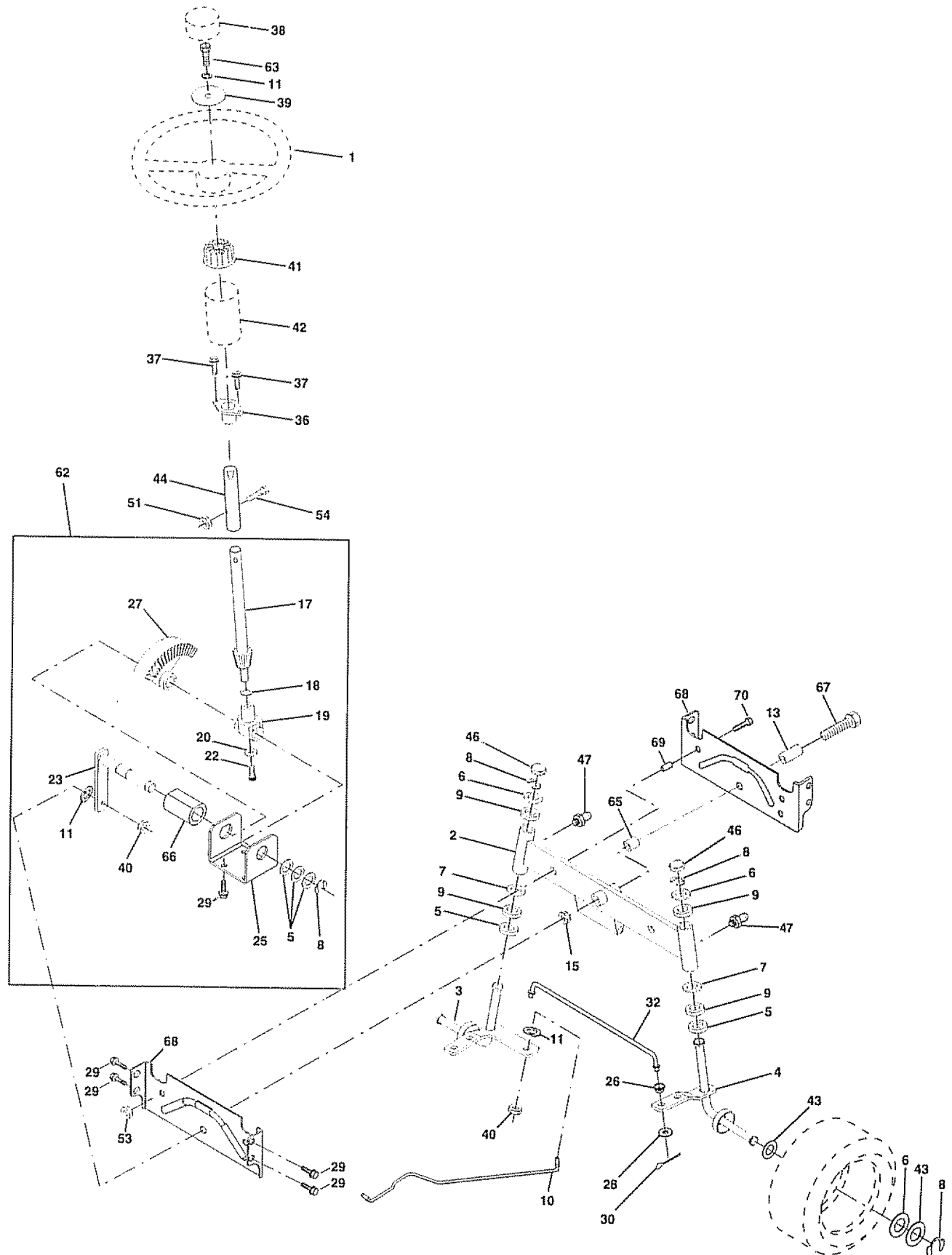
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-----------------------------------|---------|-----------|-----------------------------------|
| 1 | 150071 | Transaxle Assembly | 63 | 140186 | Pulley, Engine |
| 2 | 142431 | Spring, Return, Brake | 64 | 71170764 | Bolt 7/16-20 X 4 Gr. 5 |
| 3 | 143995 | Pulley, Transaxle | 65 | STD551143 | Washer Lock Hvy Hlcl Spr 7/16 |
| 8 | 154792 | Rod Shift Fender | 66 | 154778 | Keeper Belt Engine |
| 10 | STD561210 | Pin Cotter 1/8 x 1 CAD | 70 | 134683 | Keeper Belt Engine |
| 15 | 74490544 | Bolt Hex Flghd 5/16-18 Gr. 5 | 71 | 140158 | Strap Torque Lh Hydro 18/20" T |
| 16 | STD541431 | Nut Lock Hex W/Ins. 5/16-18 Unc | 72 | 19132012 | Washer 13/32 x 1-1/4 x 12 Gauge |
| 18 | STD523710 | Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 | 73 | 156347 | Strap Torque Rh Hydro |
| 19 | STD541437 | Nut Lock Hex W/Wsh 3/8-16 Unc | 74 | 121199X | Spacer, Split |
| 21 | 130564 | Knob, Deluxe 1/2-13 | 75 | 121749X | Washer 25/32 x 1-1/4 x 16 Gauge |
| 22 | 145627 | Rod, Brake Hydro | 76 | STD581075 | E-Ring |
| 24 | STD541237 | Nut, Hex Jam 3/8-16 Unc | 77 | 123583X | Key, Square |
| 25 | 106888X | Spring, Brake Rod | 78 | 121748X | Washer 25/32 x 1-5/8 x 16 Gauge |
| 26 | STD551037 | Washer | 81 | 156046 | Shaft Asm. Cross Hydro 20" Tires |
| 27 | STD561210 | Pin Cotter 1/8 x 3/4 CAD | 82 | 123782X | Spring Torsion T/A |
| 28 | 145204 | Rod, Parking Brake | 83 | 19171216 | Washer 17/32 x 3/4 x 16 Ga. |
| 29 | 124236X | Cap, Parking Brake | 84 | 140548 | Rod, Tie Hydro 20" Tires |
| 30 | 130807 | Bracket, Transaxle | 86 | 71208 | Bushing Rod Strig. 629/632 ID |
| 32 | STD523107 | Bolt Hex Hd 5/16-18 Unc x 3/4 | 87 | 19212016 | Washer 21/32 x 1-1/4 x 16 Ga. |
| 34 | 155071 | Shaft, Foot Pedal | 88 | 12000008 | Ring Klip #5304-62 |
| 35 | 120183X | Bearing, Nylon | 89 | 158388 | Console, Shift |
| 36 | STD551062 | Washer | 90 | 124346X | Nut Self-Thd Wsh Hd 1/4 Zinc |
| 37 | STD571810 | Pin, Roll | 91 | 74780536 | Bolt Fin Hex 5/16-18 x 2-1/4 |
| 38 | 123674X | Pulley, Idler, Flat | 92 | 74780524 | Bolt Fin Hex 5/6-18 Unc x 1-1/2 |
| 39 | STD523727 | Bolt | 93 | 142564 | Line Fuel Hydro 4" |
| 40 | 4470J | Spacer, Split | 94 | 140462 | Fan, Hydro 7" |
| 41 | 154777 | Keeper, Belt Retainer | 95 | 144643 | Control Bypass Hydro 20" Tires |
| 42 | 19131312 | Washer 13/32 x 13/16 x 12 Gauge | 96 | STD624003 | Retainer Spring 1" Zinc/Cad |
| 47 | 127783 | Pulley, Idler, V-Groove | 97 | 140469 | Keeper Bolt Rh Hydro 0750. 18/20" |
| 48 | 154604 | Bellcrank Assembly Clutch | 98 | 73510600 | Nut Keps Hex 3/8-16 Unc |
| 49 | 123205X | Retainer, Belt | 100 | 19111216 | Washer 11/32 x 3/4 x 16 Ga. |
| 50 | STD523715 | Bolt | 102 | 141322 | Washer Bellville .501D x 1.50D |
| 51 | STD541437 | Nut Crownlock 3/8-16 UNC | 103 | 73940800 | Nut Hex Jam Toplock 1/4-20 Unf |
| 52 | STD541431 | Nut, Crownlock 5/16-18 Unc | 104 | 140156 | Arm, Control Hydro |
| 53 | 105710X | Link, Clutch | 105 | 71070516 | Screw Cap Hex 5/16 x 18 x 1 |
| 55 | 105709X | Spring, Return, Clutch | 106 | 74780520 | Bolt Fin Hex 5/16-18 Unc x 1-1/4 |
| 56 | STD523712 | Bolt Hex 3/8-16 x 1-1/4 | 116 | 72110610 | Bolt Rdhd Sqnk 3/8-16 x 1.25 |
| 57 | 140294 | V-Belt, Ground Drive | 118 | 154774 | Spacer Bellcrank |
| 59 | 140312 | Keeper, Center Span | 121 | 154419 | Nyliner Clutching STL |
| 61 | 17490612 | Screw Thdrol. 3/8-16 x 3/4 Ty. TT | | | |
| 62 | 8883R | Cover, Pedal | | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

STEERING ASSEMBLY



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

STEERING ASSEMBLY

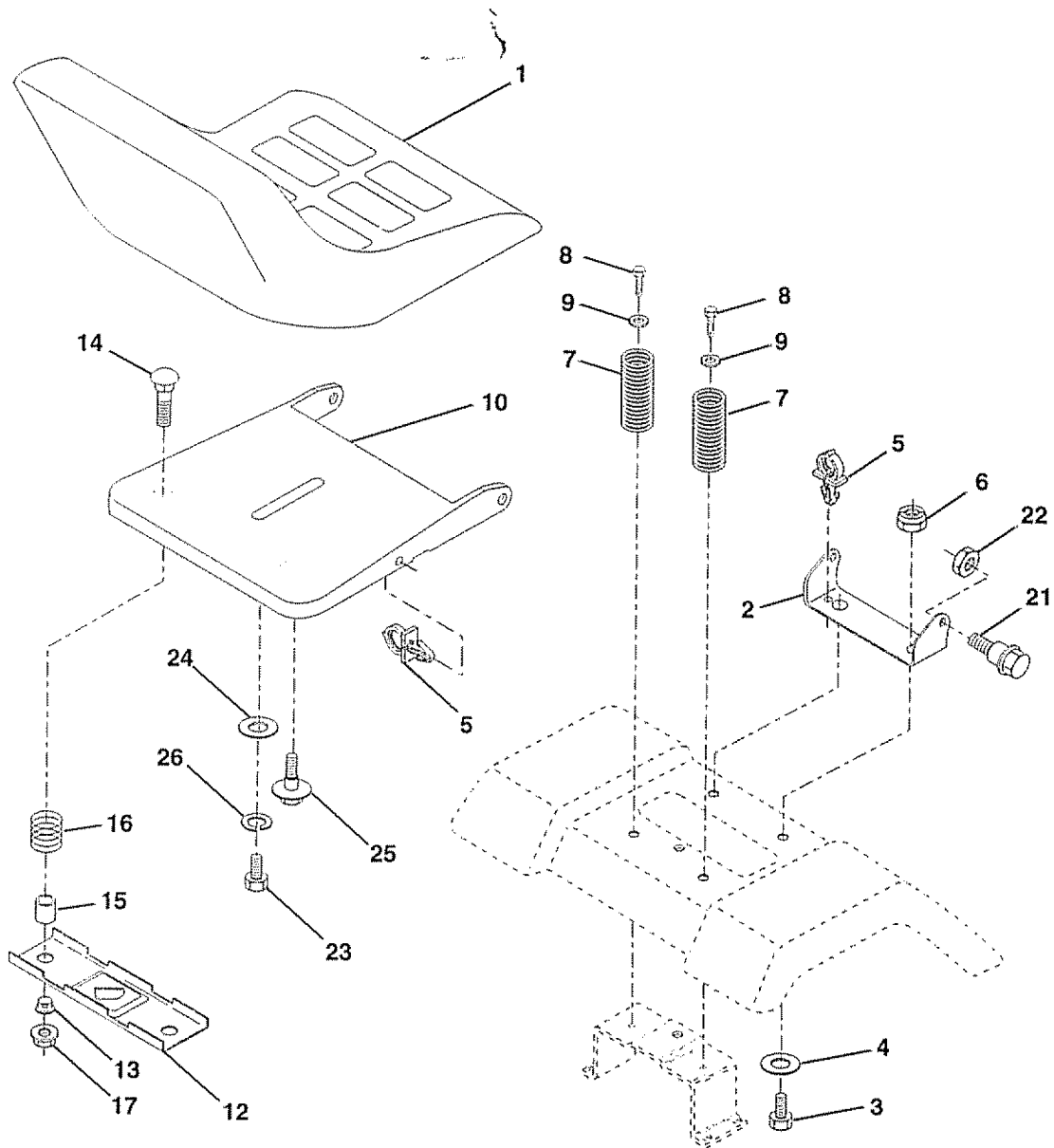
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-----------------------------------|
| 1 | 139768 | Steering Wheel |
| 2 | 154427 | Axle Assembly STMP Dropped STL |
| 3 | 156483 | Spindle Assembly, L.H. |
| 4 | 157473 | Spindle Assembly, R.H. |
| 5 | 6266H | Bearing, Race, Thrust, Hardened |
| 6 | 121748X | Washer 25/32 x 1-5/8 x 16 Gauge |
| 7 | 19272016 | Washer 27/32 x 1-1/4 x 16 Gauge |
| 8 | 12000029 | Ring, Klip |
| 9 | 3366R | Bearing, Steering Column |
| 10 | 156438 | Draglink Extended Stamped |
| 11 | STD551137 | Washer, Lock |
| 13 | 154779 | Bearing Axle STL/GT |
| 15 | 73901000 | Nut, Lock, Flange 5/8-11 UNC |
| 17 | 156546 | Shaft Assembly, Steering |
| 18 | 57079 | Washer, Thrust .515 x .750 x .033 |
| 19 | 124035X | Support, Shaft |
| 20 | 126684X | Washer, Shim 1/4 x 5/8 x .062 |
| 22 | 71200410 | Screw, Hex Socket 1/4-20 x 5/8 |
| 23 | 127501 | Pittman Shaft Assembly |
| 25 | 154406 | Bracket, Steering |
| 26 | 126847X | Bushing, Link, Drag |
| 27 | 136874 | Gear, Sector |
| 28 | 19131416 | Washer 13/32 x 7/8 x 16 Gauge |
| 29 | 17490612 | Screw, Thd., Roll. 3/8-16 x 3/4 |
| 30 | STD561210 | Pin |
| 32 | 130465 | Rod, Tie |
| 36 | 155099 | Bushing, Steering |
| 37 | 152927 | Screw |
| 38 | 139769 | Insert, Steering Wheel |
| 39 | 19133808 | Washer 13/32 x 2-3/8 x 8 Gauge |
| 40 | STD541537 | Gripco Nut |
| 41 | 100711L | Adaptor, Steering Wheel |
| 42 | 145054 | Boot, Steering Shaft |
| 43 | 121749X | Washer 25/32 x 1-1/4 x 16 Gauge |
| 44 | 153720 | Extension Shaft Steering LR.LT |
| 46 | 121232X | Cap, Spindle |
| 47 | 6855M | Fitting, Grease |
| 51 | STD541431 | Nut Lock Hex w/Ins. 5/16-18 UNC |
| 54 | 74780520 | Bolt Fin Hex 5/16-18 UNC x 1-1/4 |
| 62 | 156594 | Kit Steering Asm Service |
| 63 | STD523710 | Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5 |
| 65 | 154780 | Spacer Axle |
| 66 | 154404 | Bearing Arm Pittman |
| 67 | 74781044 | Bolt, Fin Hex 5/8-11 UNC x 2-3/4 |
| 68 | 154429 | Axle, Brace |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

SEAT ASSEMBLY



| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-------------------------------|
| 1 | 140123 | Seat |
| 2 | 140551 | Bracket, Pivot, Seat |
| 3 | STD523710 | Bolt |
| 4 | 19131610 | Washer 13/32 x 1 x 10 Gauge |
| 5 | 145006 | Clip, Push-In Hinged |
| 6 | STD541437 | Nut |
| 7 | 124181X | Spring, Seat |
| 8 | 17490616 | Screw, Thd., Roll. 3/8-16 x 1 |
| 9 | 19131614 | Washer 13/32 x 1 x 14 Gauge |
| 10 | 155925 | Pan, Seat Emboss QCK Conn. |
| 12 | 121246X | Bracket, Switch Mounting |
| 13 | 121248X | Bushing, Snap |
| 14 | 72050412 | Bolt, Carriage 1/4-20 x 1-1/2 |

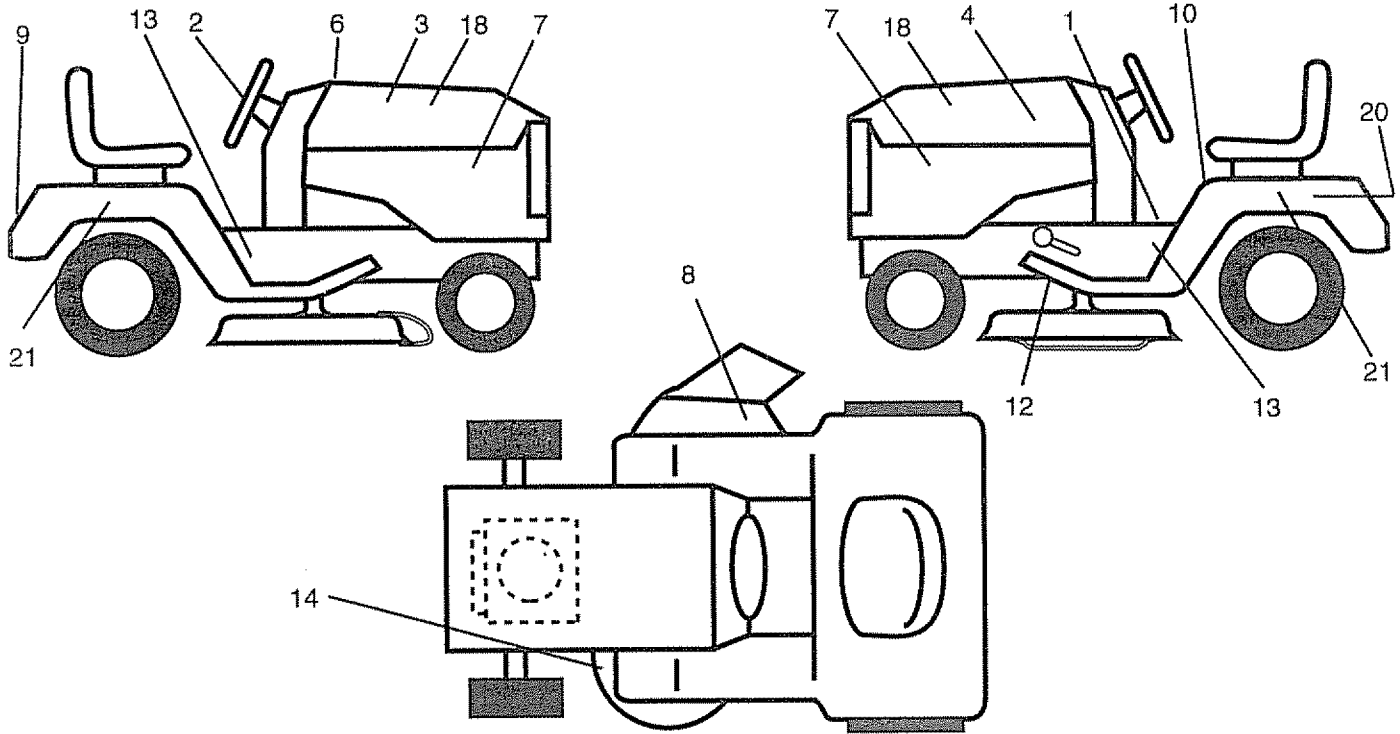
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|
| 15 | 134300 | Spacer, Split .28 x .88 |
| 16 | 121250X | Spring |
| 17 | 129976X | Locknut, Flange 1/4 Grade 5 |
| 21 | 153236 | Bolt, Shoulder 5/16-18 UNC |
| 22 | STD541431 | Nut |
| 23 | 74780814 | Bolt, Hex Head, Fin. 1/2-13 x 7/8 Grade 5 |
| 24 | 19171912 | Washer 7/32 x 1-3/16 x 12 Gauge |
| 25 | 127018X | Bolt, Shoulder 5/16-18 x .62 |
| 26 | STD551150 | Washer, Lock |

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REPAIR PARTS

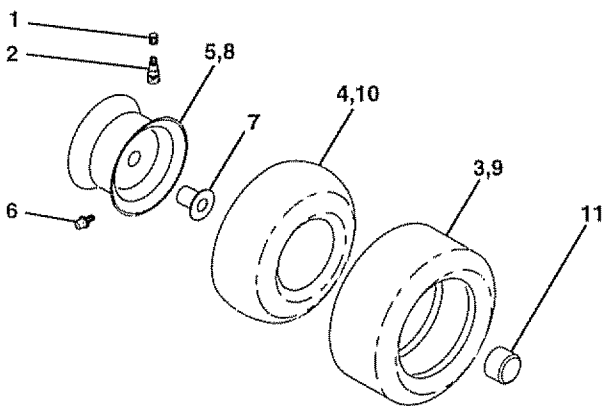
TRACTOR -- MODEL NUMBER 917.259830

DECALS



| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|-------------------------------|---------|----------|---------------------------------|
| 1 | 156811 | Decal, Oper. Instr. | 13 | 147138 | Decal, Chassis, 6 Speed/42" |
| 2 | 150333 | Decal, Cap Cnsmr Help Line | 14 | 160396 | Decal, V-Belt Schematic |
| 3 | 160280 | Decal, Hood, R.H. | 18 | 151708 | Decal, Ins. Hood |
| 4 | 160281 | Decal, Hood, L.H. | 20 | 149516 | Decal, Battery Dngr/Psn Eng |
| 6 | 133644 | Decal, Customer Maintenance | 21 | 156810 | Decal, Fender Auto |
| 7 | 150927 | Decal, Side Panel | -- | 138311 | Decal, Lift Handle |
| 8 | 156787 | Decal, Deck Mower EZ3 | -- | 142341 | Decal, Drawbar Cntrl Mvt Hyd LT |
| 9 | 146709 | Decal, Fender, Craftsman | -- | 154515 | Pad Footrest LH STLT |
| 10 | 156439 | Decal, Fender Danger | -- | 154516 | Pad Footrest RH STLT |
| 12 | 146046 | Decal, V-Belt Drive Schematic | -- | 162199 | Owner's Manual, English |
| | | | -- | 162200 | Owner's Manual, Spanish |

WHEELS & TIRES



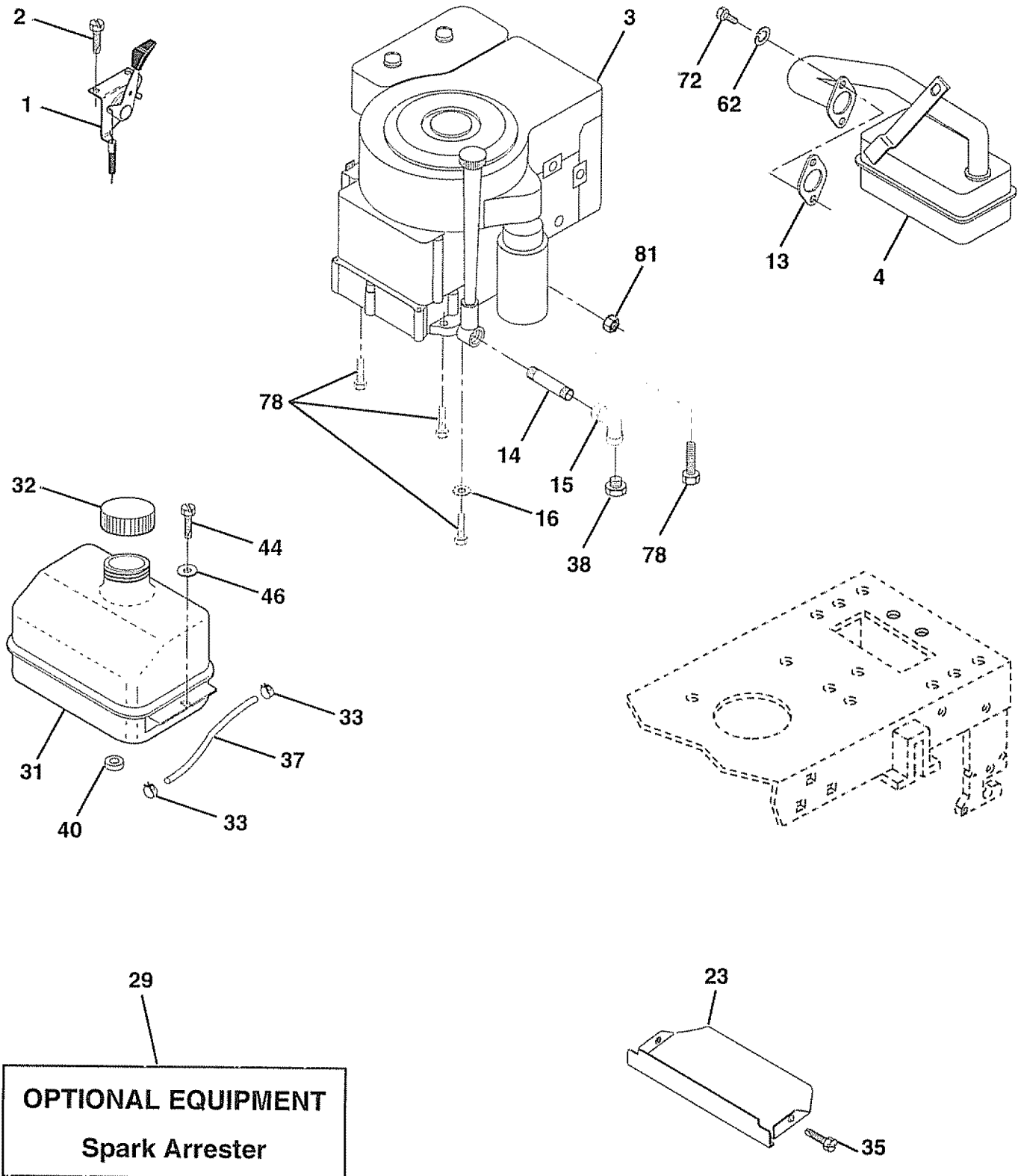
| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|---|
| 1 | 59192 | Valve Cap, Tire |
| 2 | 65139 | Stem, Valve |
| 3 | 106222X | Tire, Front |
| 4 | 59904 | Tube, Front Tire (Not Provided, Service Item Only) |
| 5 | 106732X427 | Rim, Front |
| 6 | 278H | Fitting, Grease (Front Wheel Only) |
| 7 | 9040H | Bearing, Flange (Front Wheel Only) |
| 8 | 106108X427 | Rim, Rear |
| 9 | 138468 | Tire, Rear |
| 10 | 7152J | Tube, Rear Tire (Not Provided, Service Item Only) |
| 11 | 104757X | Cap, Axle |
| -- | 144334 | Sealant, Tire 10 oz. |

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1 inch = 25.4 mm

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

ENGINE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

ENGINE

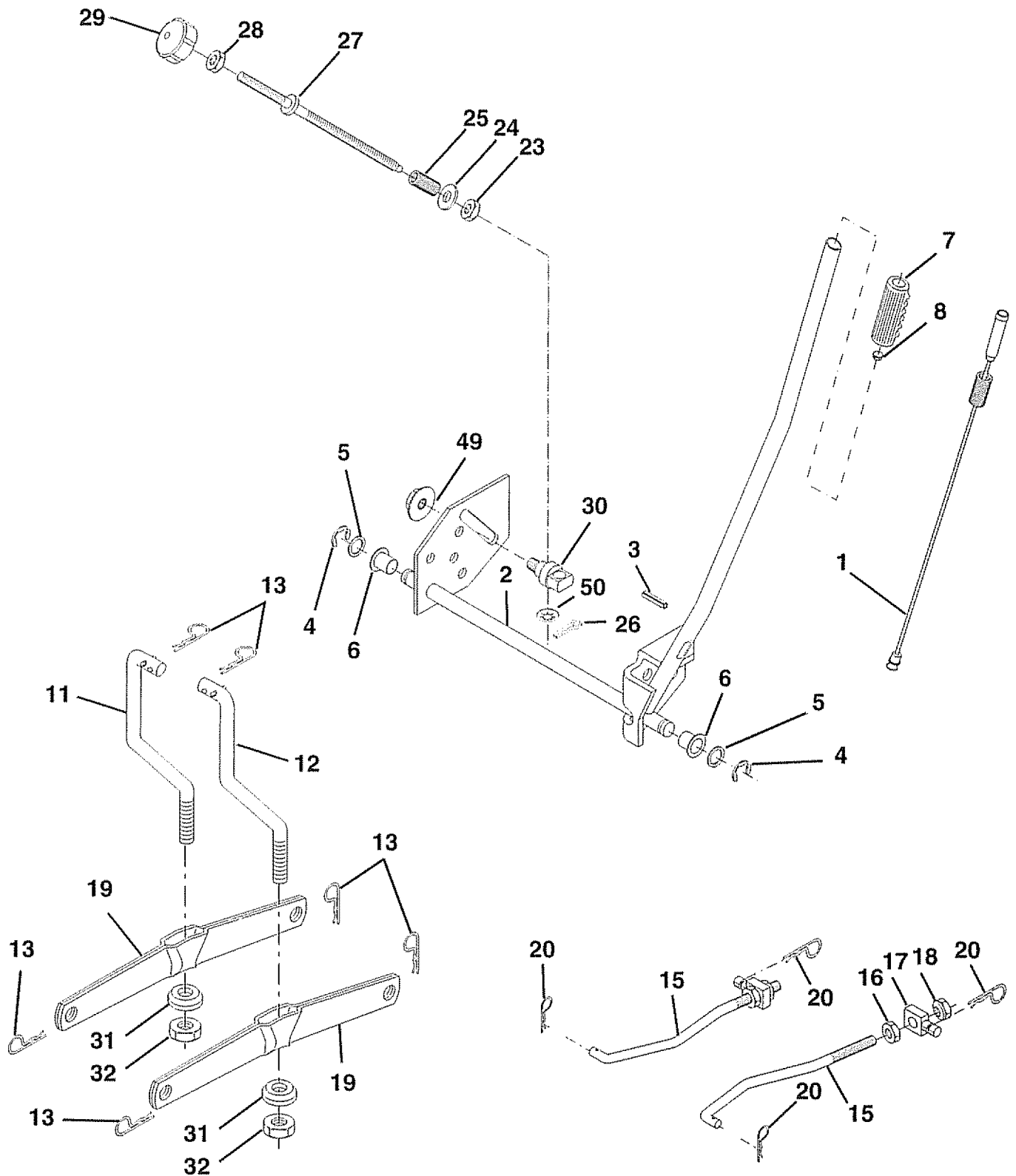
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|
| 1 | 150600 | Control, Throttle |
| 2 | 17720410 | Screw, Hex Head, Thread Cutting 1/4-20 x 5/8 |
| 3 | ----- | Engine (See Breakdown) Briggs Model 28N707-1173-E1 |
| 4 | 137352 | Muffler |
| 13 | 272293 | Gasket, Exhaust |
| 14 | 13280324 | Nipple, Pipe 3/8 NPT x 3 |
| 15 | 13200300 | Elbow, Standard 90°, 3/8-18 NPT |
| 16 | STD551237 | Washer |
| 23 | 159880 | Shield, BRN/DBR Guard |
| 29 | 137180 | Arrestor, Spark |
| 31 | 109202X | Tank, Fuel |
| 32 | 123549X | Cap Assembly, Fuel Tank, Vented |
| 33 | 123487X | Clamp, Hose |
| 35 | 17490512 | Screw Thdrol 5/16-18 x 3-4 Tyl |
| 37 | 137040 | Line, Fuel |
| 38 | ----- | Plug, Oil Drain (Order From Engine Manufacturer) |
| 40 | 124028X | Bushing, Snap, Fuel Line |
| 44 | 17490412 | Screw, Hex Washer Head, Thd., Roll. 1/4-20 x 3/4 |
| 46 | 19091416 | Washer 9/32 x 7/8 x 16 Gauge |
| 62 | STD551131 | Washer, Lock |
| 72 | 71070512 | Screw, Hex Cap Head 5/16-18 x 3/4 |
| 78 | 17490620 | Screw, Thd., Roll. 3/8-16 x 1-1/4 |
| 81 | 128861 | Nut Flange 1/4-20 Starter Nut |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259531

MOWER LIFT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259531

MOWER LIFT

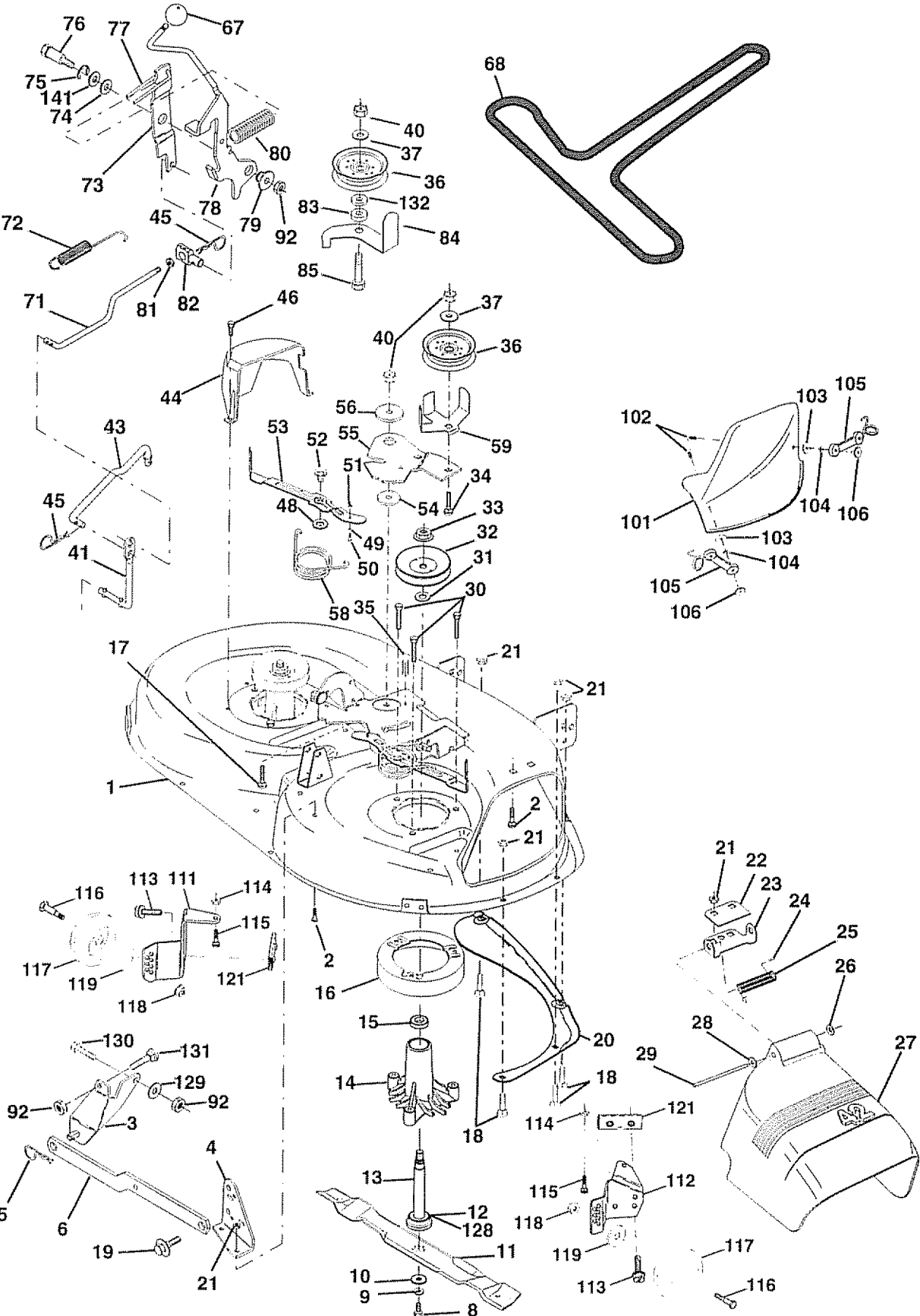
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|--|
| 1 | 159460 | Wire Asm Inner/Sprg w/Plngr Lt |
| 2 | 159471 | Shaft Assembly, Lift |
| 3 | 105767X | Pin, Groove |
| 4 | 12000002 | E-Ring |
| 5 | 19211621 | Washer 21/32 x 1 x 21 Gauge |
| 6 | 120183X | Bearing, Nylon |
| 7 | 125631X | Grip, Handle, Fluted |
| 8 | 122365X | Button, Plunger, Red |
| 11 | 139865 | Link, Lift, L.H. |
| 12 | 139866 | Link, Lift, R.H. |
| 13 | STD624008 | Retainer Spring |
| 15 | 127218 | Link, Front |
| 16 | 73350800 | Nut, Hex, Jam 1/2-13 UNC |
| 17 | 130171 | Trunnion |
| 18 | 73800800 | Locknut, Hex, with Washer Insert 1/2-13 UNC |
| 19 | 139868 | Arm, Suspension, Rear |
| 20 | STD624008 | Retainer Spring |
| 23 | 110807X | Nut, Special |
| 24 | 19131016 | Washer 13/32 x 5/8 x 16 Gauge |
| 25 | 2876H | Spring |
| 26 | STD560907 | Pin, Cotter 3/32 x 1/2 |
| 27 | 126971X | Rod, Adjust, Lift |
| 28 | 73350600 | Nut, Hex, Jam 3/8-16 UNC |
| 29 | 138057 | Knob, Infinite Height Adjustment |
| 30 | 150233 | Trunnion, Inf Height |
| 31 | 140302 | Bearing, Pvt, Lift Spherical |
| 32 | 73540600 | Nut, Crownlock 3/8-24 |
| 49 | 145212 | Nut Hex Flange Lock |
| 50 | 110452X | Nut Push Phos & Oil |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

MOWER DECK



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

MOWER DECK

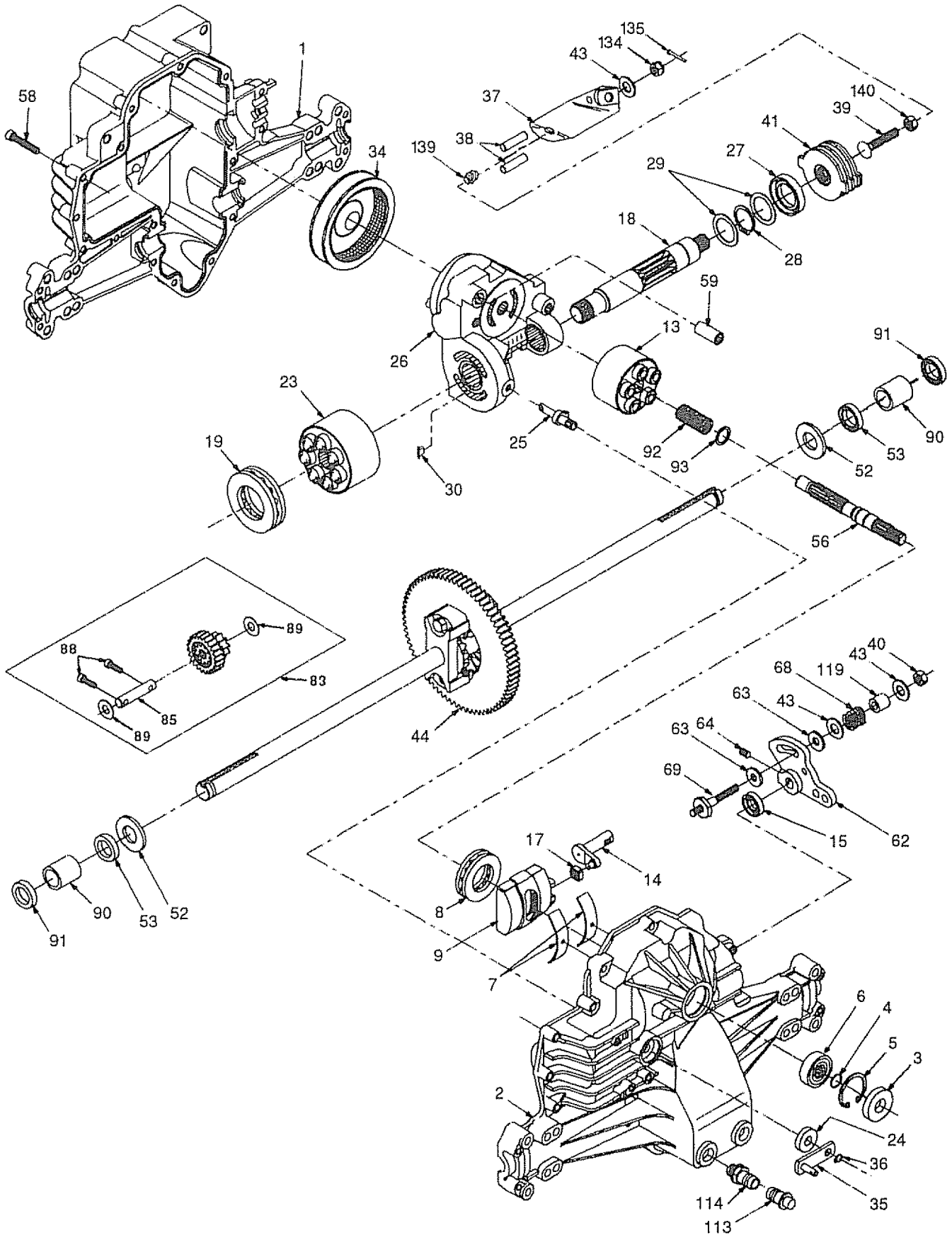
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|---|---------|-----------|---|
| 1 | 144393 | Mower Housing | 56 | 122052X | Spacer, Retainer |
| 2 | STD533107 | Bolt | 58 | 140086 | Spring, Torsion Brakes |
| 3 | 138017 | Bracket Assembly, Sway Bar, Front | 59 | 141043 | Guard, TUV Idler |
| 4 | 138440 | Bracket Assembly, Sway Bar | 67 | 149846 | Knob Custom Oval |
| 5 | STD624008 | Retainer Spring | 68 | 144200 | V-Belt |
| 6 | 130832 | Arm, Suspension, Rear | 71 | 142427 | Rod, Clutch, Primary, with Nibs |
| 8 | 850857 | Bolt, Hex 3/8-24 x 1.25 Grade 8 | 72 | 131870 | Spring, Return |
| 9 | STD551137 | Washer, Lock | 73 | 127847 | Arm, Clutch, Secondary |
| 10 | 140296 | Washer, Hardened | 74 | 121748X | Washer 25/32 x 1-5/8 x 16 Gauge |
| 11 | 134149 | Blade, Mulching | 75 | 12000029 | Ring, Klip |
| 12 | 129895 | Bearing, Ball | 76 | 128903 | Bolt, Shoulder 3/8-16 UNC x 1.44 |
| 13 | 137645 | Shaft Assembly, Mandrel, Vented (Includes Key Number 6), | 77 | 127845 | Keeper, Spring |
| 14 | 128774 | Housing, Mandrel, Vented | 78 | 154809 | Lever Asm. Clutch Pri Plm STLT |
| 15 | 110485X | Bearing, Ball, Mandrel | 79 | 127498 | Bushing, Large, Brass |
| 16 | 140329 | Stripper, Vented Mower Deck | 80 | 153701 | Spring, Mower Clutch |
| 17 | 72110610 | Bolt, Carriage 3/8-16 x 1-1/4 | 81 | 73350600 | Nut, Hex Jam 3/8-16 Unc |
| 18 | STD533106 | Bolt, Carriage 5/16-18 x 5/8 | 82 | 142028 | Trunnion, Adj. |
| 19 | 132827 | Bolt, Shoulder | 83 | 120958X | Washer Sintered |
| 20 | 136888 | Baffle, Vortex | 84 | 156084 | Keeper Belt Idler |
| 21 | STD541431 | Nut Crownlock 5/16-18 UNC | 85 | 72140618 | Bolt RdHd Sq 3/8-16 x 2-1/4 |
| 22 | 134753 | Stiffener Bracket | 92 | STD541437 | Nut |
| 23 | 131267 | Bracket, Deflector | 101 | 136420 | Mulcher Cover |
| 24 | 105304X | Cap, Sleeve | 102 | 71161010 | Screw |
| 25 | 123713X | Spring, Torsion, Deflector | 103 | 19061216 | Washer #10 |
| 26 | 110452X | Nut, Push | 104 | STD551110 | Washer, Lock |
| 27 | 130968 | Shield, Deflector | 105 | 160793 | Latch Assembly, Bagger |
| 28 | 19111016 | Washer 11/32 x 5/8 x 16 Gauge | 106 | 2029J | Nut, Weld |
| 29 | 131491 | Rod, Hinge | 111 | 155197 | Bracket, Gauge, Wheel L.H. |
| 30 | 157722 | Screw Thdrol Washer Head | 112 | 155198 | Bracket, Gauge, Wheel R.H. |
| 31 | 129963 | Washer, Spacer | 113 | 17490512 | Screw Thdrol 5/16-18 x 3/4 |
| 32 | 153535 | Pulley, Mandrel | 114 | 73510500 | Nut, Hex, Keps 5/16-18 UNC |
| 33 | 137266 | Nut, Toplock, Flanged | 115 | 72110504 | Bolt, Carriage 5/16 UNC x 1/2 |
| 34 | STD533717 | Bolt | 116 | 137644 | Bolt, Shoulder |
| 35 | 133835 | Fastner, Christmas Tree | 117 | 133957 | Wheel, Gauge |
| 36 | 131494 | Pulley, Idler, Flat | 118 | 73930600 | Nut, Centerlock 3/8-16 |
| 37 | STD551037 | Washer 13/32 x 13/16 x 16 Gauge | 119 | 19121414 | Washer 3/8 x 7/8 x 14 Gauge |
| 40 | STD541437 | Nut Crownlock 3/8-16 UNC | 121 | 143723 | Bracket |
| 41 | 133551 | Rod, Pivot, with Nibs | 128 | 153390 | Washer Felt |
| 43 | 140083 | Rod, Clutch, Secondary, with Nibs | 129 | 19131312 | Washer 13/32 x 13/16 x 12 Ga. |
| 44 | 140088 | Guard, Mandrel, L.H. | 130 | STD523710 | Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5 |
| 45 | STD624003 | Retainer | 131 | STD533710 | Bolt, RDHD SQNK 3/8-16 UNC x 1 |
| 46 | 137729 | Screw, Thd. Roll 1/4-20 x 5/8 | 132 | 19132203 | Spacer Washer 13/32 I.D. x 1-3/8 O.D. x 1/4 |
| 48 | 133944 | Washer, Hardened | 141 | 6266H | Washer Thrust .75 x 1.230 |
| 49 | 155066 | Roller Assembly, Cam Follower | -- | 130794 | Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32) |
| 50 | 131340 | Bolt, Shoulder #10-24 Grade 5 | -- | 145411 | Mower Deck, Complete (Standard Deck, Order Separately Mulcher Plate and Gauge Wheel Components, Key Nos. 101-106 and 111-121) |
| 51 | STD541410 | Locknut | | | |
| 52 | 139888 | Bolt, Shoulder 5/16-18 UNC | | | |
| 53 | 131845X900 | Arm Assembly, Pad, Brake | | | |
| 54 | 133943 | Washer, Hardened | | | |
| 55 | 155046 | Arm, Idler | | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

HYDRO GEAR TRANSAXLE - MODEL NUMBER 310-0650



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

HYDRO GEAR TRANSAXLE - MODEL NUMBER 310-0650

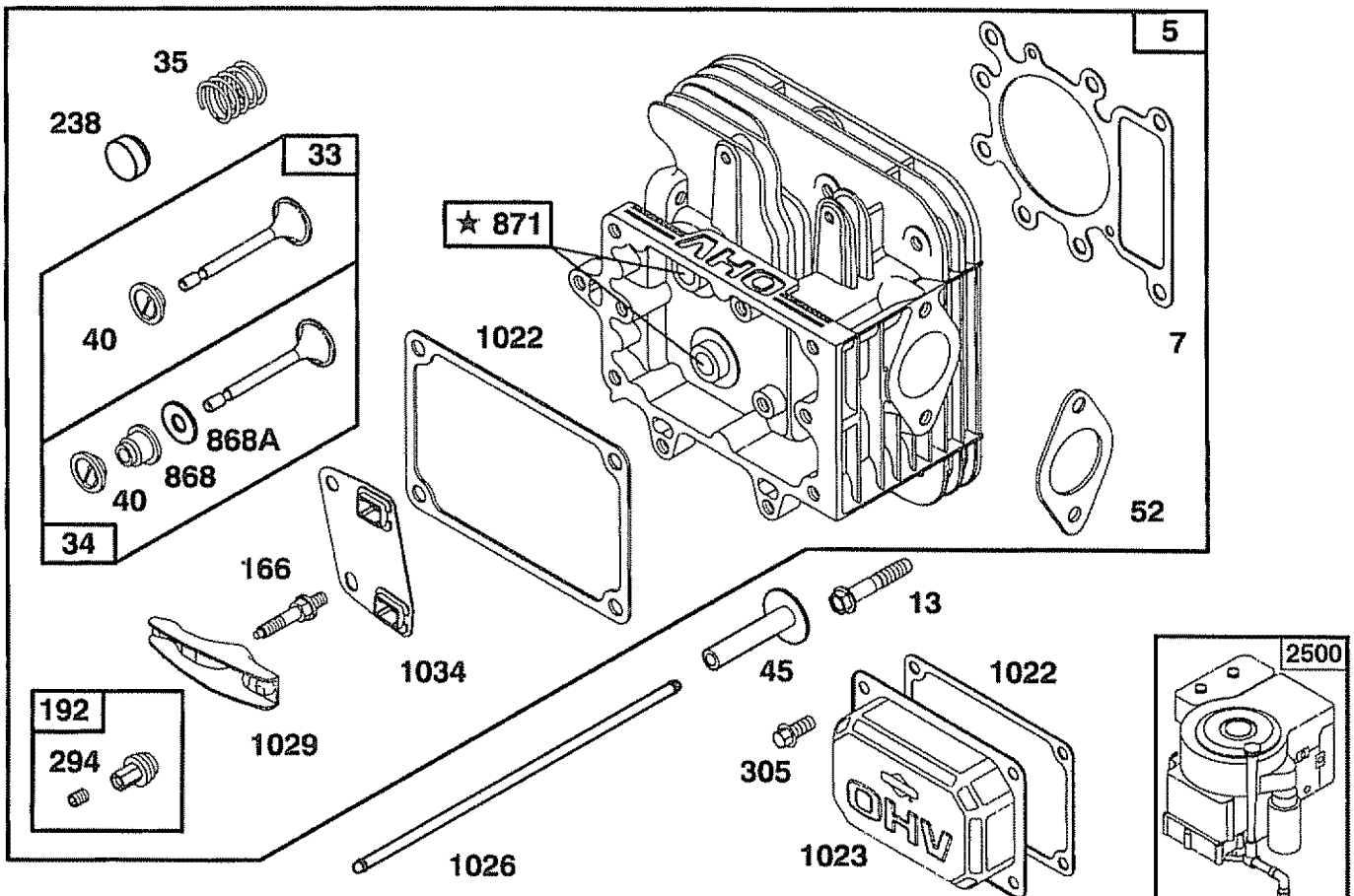
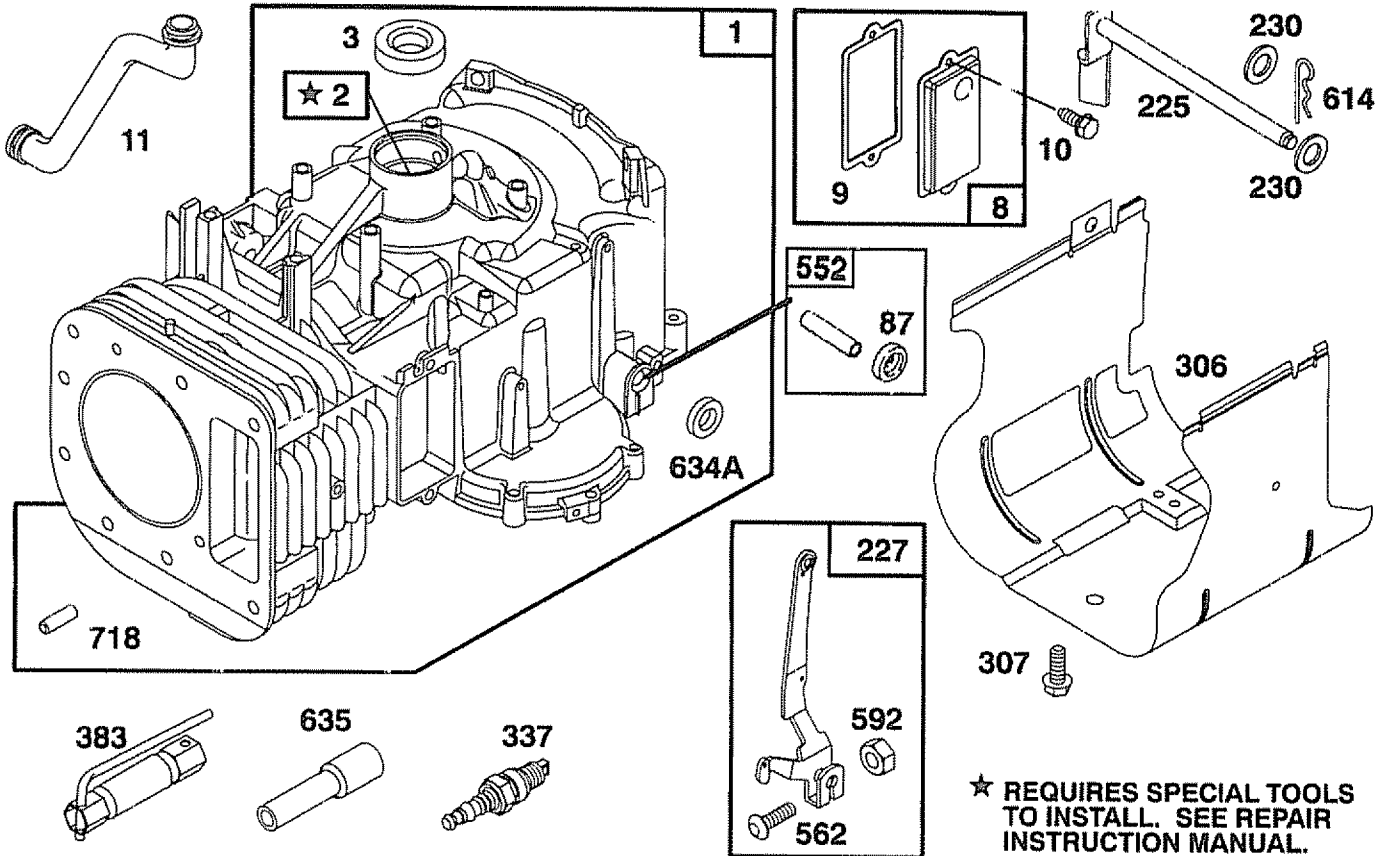
| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|---------------------|------------------------------|---------------------|---------------------------|
| 1 142930 | Housing, Lower | 43 142884 | Washer 7/16 x 7/8 x .060 |
| 2 142931 | Assembly, Upper Housing | 44 150829 | Differential Assembly |
| 3 142932 | Seal, Lip | 52 142991 | Washer 3/4 x 1.5 x .13 |
| 4 142928 | Ring, Wire Retaining | 53 142961 | Seal .75 x 1.25 x .250 |
| 5 142933 | Ring, Retaining | 56 142963 | Shaft, Input |
| 6 142934 | Bearing, Shaft Ball | 58 142964 | Bolt 1/4-20 x 1.38 |
| 7 142935 | Bearing, Cradle | 59 142965 | Pin .5 OD x .43 ID x .750 |
| 8 150771 | Bearing, Thrust 30 x 52 x 13 | 62 142966 | Arm, Control |
| 9 142937 | Swashplate, Variable | 63 142967 | Puck, Dampener |
| 13 142938 | Block, Cylinder Assembly | 64 142920 | Set Screw |
| 14 142939 | Arm, Trunnion | 68 142969 | Spring |
| 15 142940 | Seal, Lip | 69 144610 | Stud 5/16-24 |
| 17 142941 | Guide, Slot | 83 142971 | Jackshaft Assembly |
| 18 150772 | Shaft, Motor | 85 150806 | Jackshaft |
| 19 150773 | Bearing, Thrust 42 x 68 x 16 | 88 142973 | Screw, Cap |
| 23 142944 | Block, Cylinder Assembly | 89 142974 | Washer 7/16 x 1 x 1/2 |
| 24 142945 | Seal, Lip 10 x 25 x 7 | 90 142975 | Sleeve Bearing |
| 25 142946 | Actuator, Bypass | 91 142976 | Seal, Wiper |
| 26 150774 | Center Section Assembly Kit | 92 142977 | Spring, Block |
| 27 142948 | Seal, Lip 26 x 42 x 8 | 93 142978 | Washer, Block Thrust |
| 28 142949 | Ring, Retaining | 113 142917 | Cap, Vent Assembly |
| 29 142950 | Washer 26 x 35 x 1 | 114 142918 | Fitting, O-Ring Assembly |
| 30 150787 | Plate, Bypass | 119 142980 | Spacer |
| 34 142951 | Oil Filter Element | 134 144607 | Nut, Castle 5/16-24 |
| 35 142952 | Arm, Bypass | 135 144608 | Pin, Cotter |
| 36 142953 | Ring, Retaining | 139 150775 | Spring, Compression |
| 37 142954 | Arm, Actuating | 140 150776 | Nut, Hex 5/16-24 |
| 38 142955 | Pin, Actuating | | |
| 39 150777 | Bolt 5/16-24 x 1-3/4 | | |
| 40 150778 | Locknut, Hex 5/16-24 UNJC | | |
| 41 142958 | Brake Rotor/Stator Kit | | |

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.259830

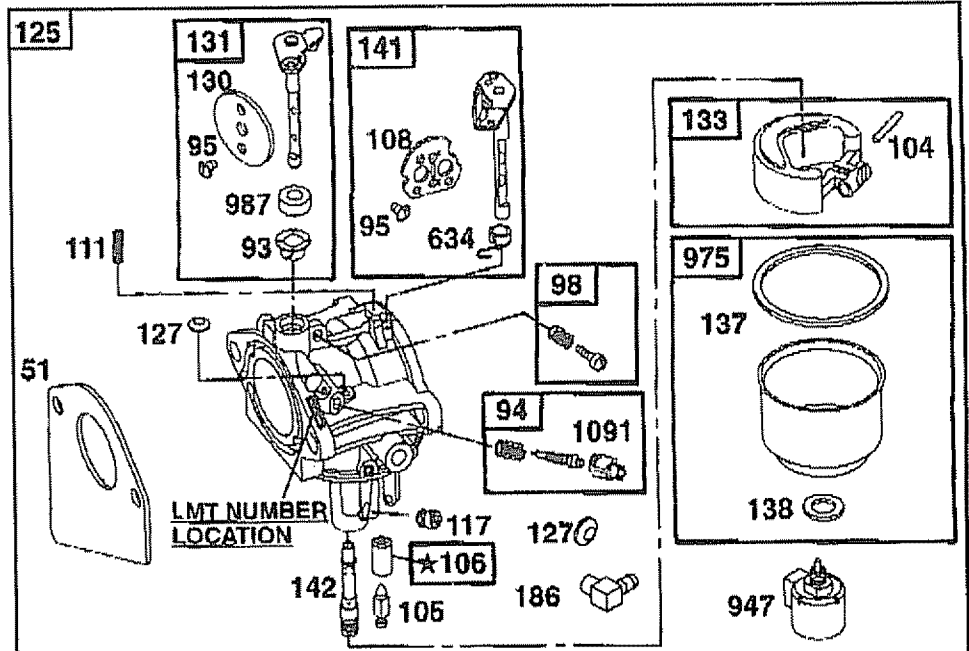
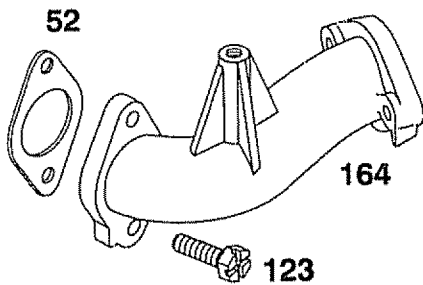
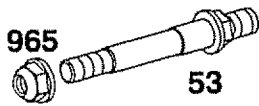
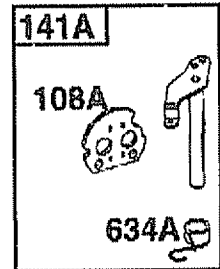
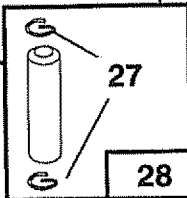
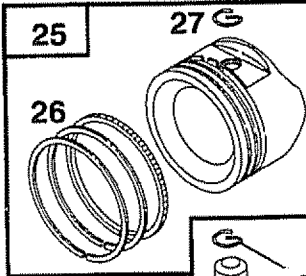
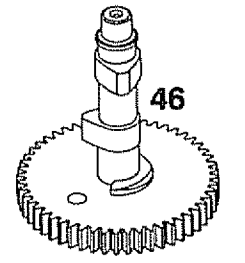
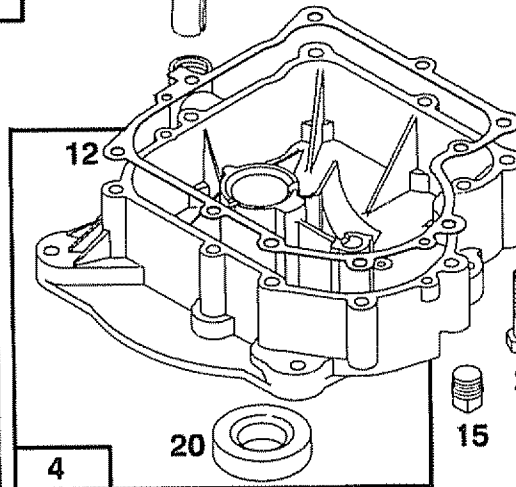
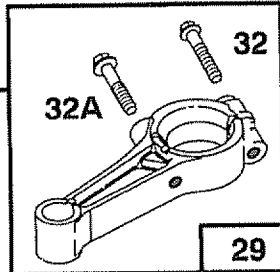
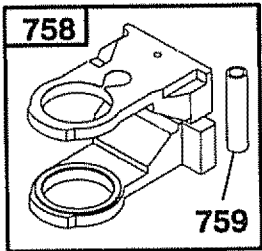
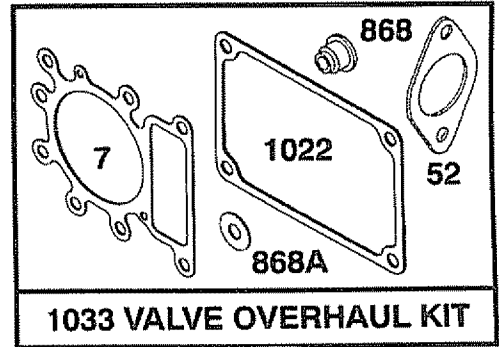
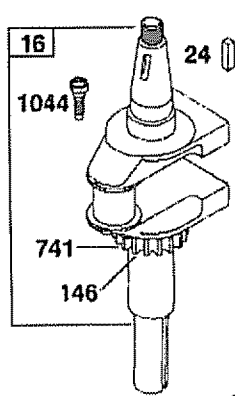
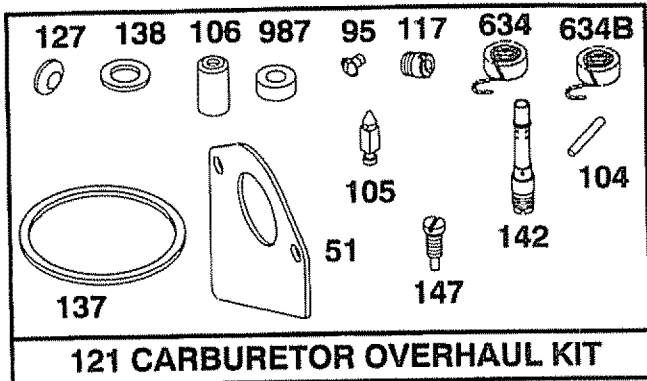
BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1

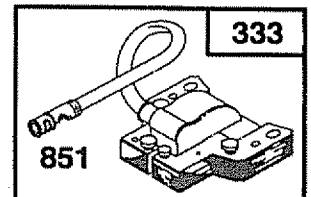
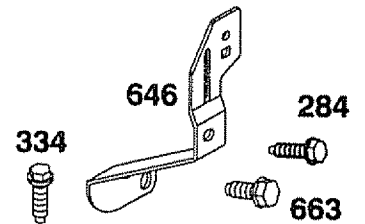
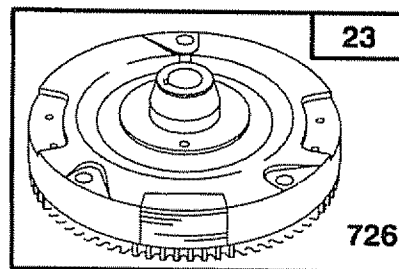
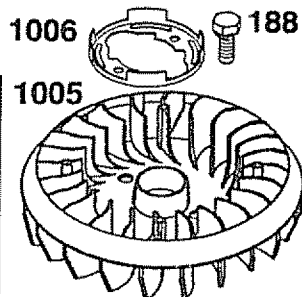
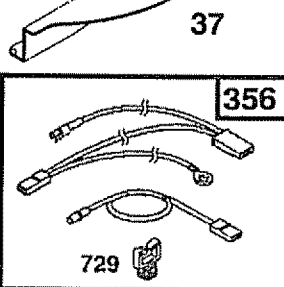
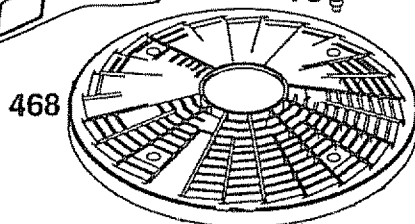
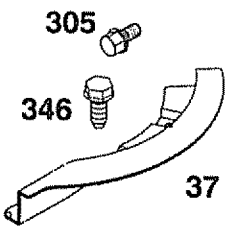
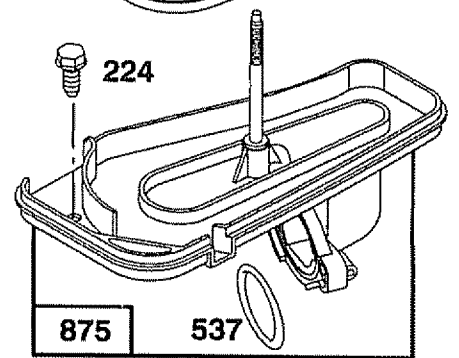
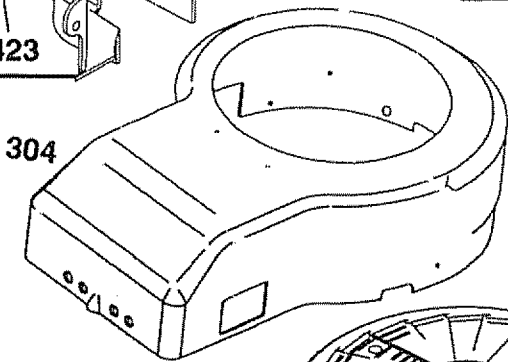
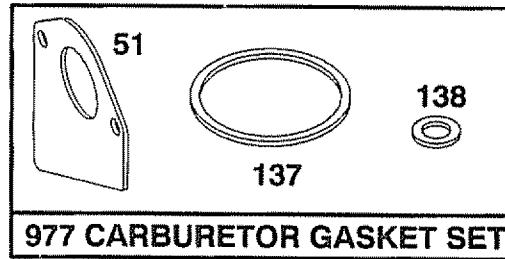
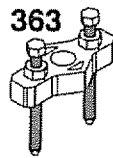
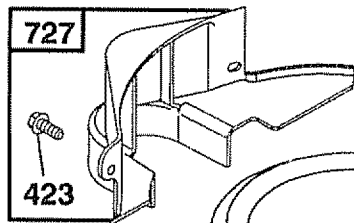
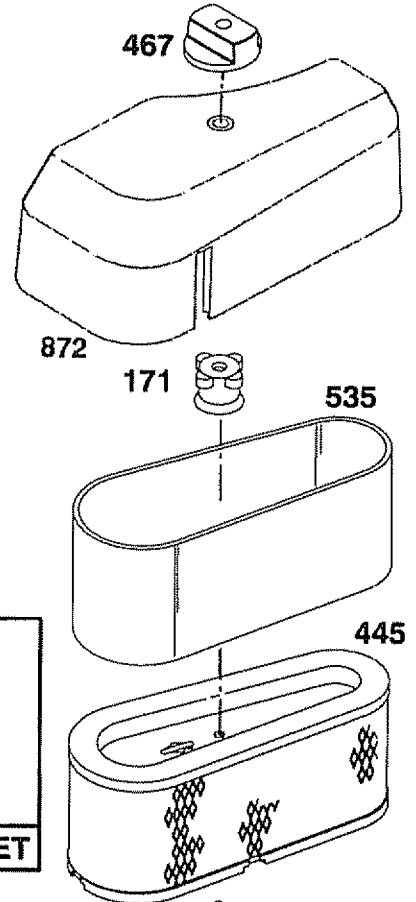
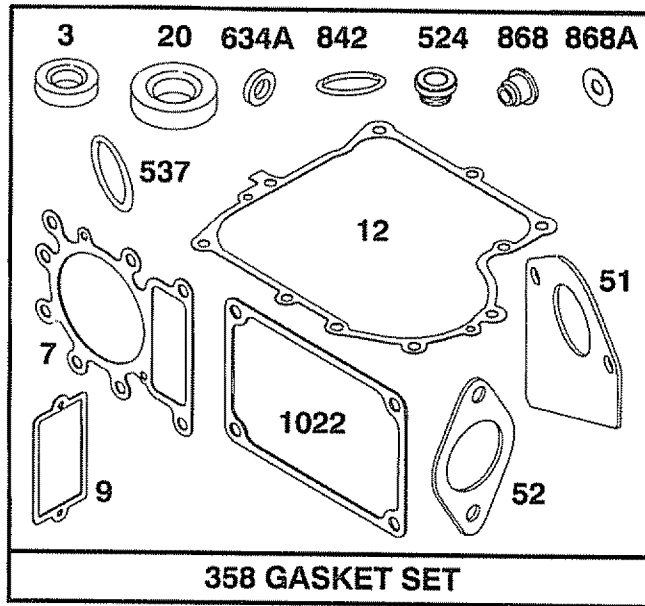
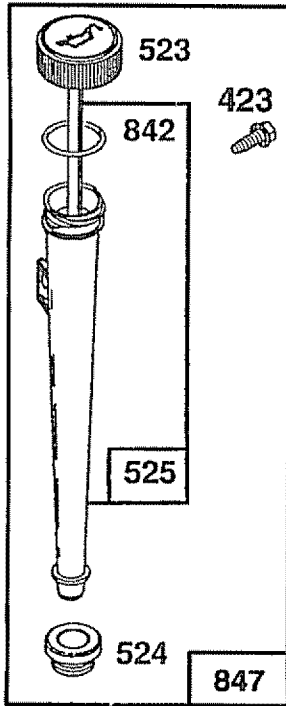


★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

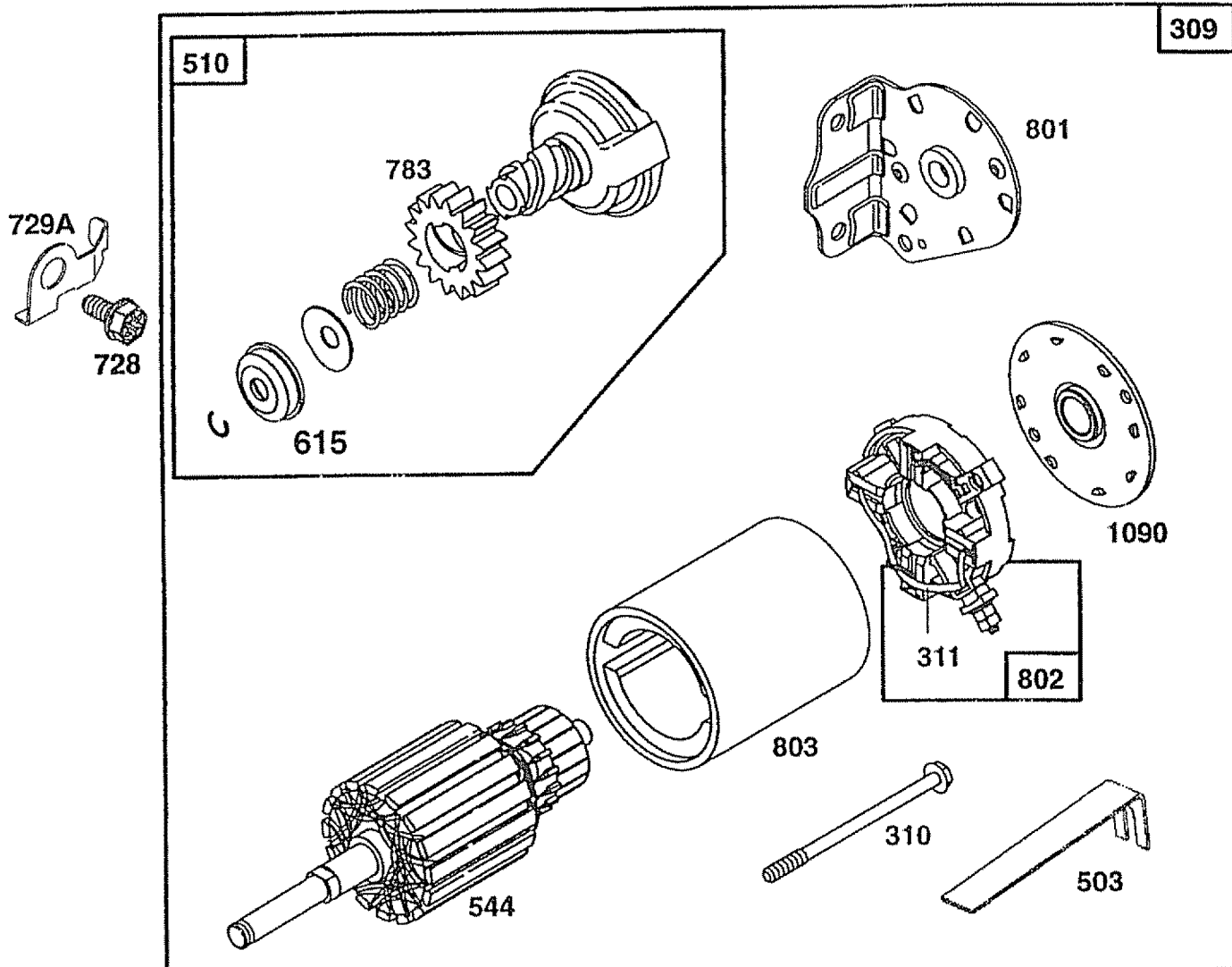
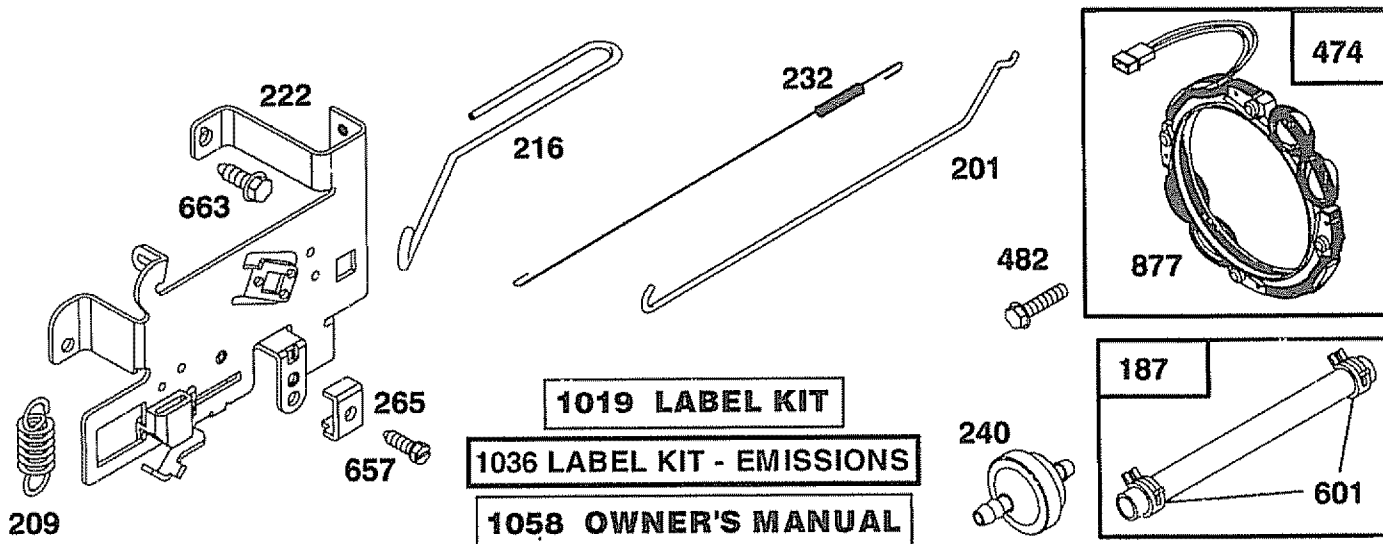
BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1

| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION | |
|------------------|-------------|------------------|-------------|---|
| 1 | 496412 | 95 | 94098 | ** Screw, Throttle |
| 2 | 399265 | 98 | 495800 | Screw, Idle Speed |
| 3 | 391086 | 104 | 231789 | ** Pin, Float Hinge |
| 4 | 494238 | 105 | 231855 | ** Valve Float |
| 5 | 495858 | 106 | 231854 | ** Seat, Inlet Valve |
| 7 | 273280 | 108 | 224558 | Valve, Choke (Lmt 153) |
| 8 | 495735 | 108A | 224540 | Valve, Choke (Lmt 154) |
| 9 | 27803 | 111 | 262715 | Spring Choke (Lmt 155) |
| 10 | 94621 | 117 | 232118 | ** Jet, Needle Valve |
| 11 | 281246 | 121 | 499233 | Carburetor Overhaul Kit |
| 12 | 271916 | 123 | 94913 | Screw, Elbow Mounting |
| | 271997 | 125 | 499153 | Carburetor Assembly |
| | 271996 | 127 | - - - | ** Plug, Welch (Sold in Kit Only) |
| 13 | 94728 | 130 | 224539 | Valve, Throttle |
| 15 | 94239 | 131 | 494379 | Shaft and Lever, Throttle |
| 16 | 498971 | 133 | 494381 | Float, Carburetor |
| | 94196 | 137 | 281165 | **** Gasket, Float Bowl |
| 20 | 291675 | 138 | 281164 | **** Washer, Bowl |
| 22 | 94624 | 141 | 495097 | Choke, Shaft Kit (Choke-A-Matic) |
| 23 | 492326 | 141A | 495931 | Choke, Shaft Kit (Choke-A-Matic) |
| | | 142 | 232117 | ** Nozzle, Carburetor |
| 24 | 222698 | 146 | 94196 | Key, Timing Gear |
| 25 | 495860 | 164 | 214047 | Elbow, Carburetor |
| | 495977 | 166 | 94555 | Stud, Rocker Arm |
| | 495978 | 171 | 281051 | Nut, Air Cleaner Mounting |
| | 495979 | 186 | 493496 | Connector, Hose |
| 26 | 495854 | 187 | 492790 | Line, Fuel (Cut to Suit) |
| | 495852 | 188 | 94627 | Screw, Sems |
| | 495851 | 192 | 492160 | Screw Assembly, Rocker Arm |
| | 495855 | 201 | 262767 | Link, Governor |
| 27 | 263129 | 209 | 260695 | Spring, Governor |
| 28 | 498319 | 216 | 262766 | Link, Choke |
| | 498320 | 219 | 490815 | Gear, Governor |
| 29 | 494504 | 222 | 495611 | Plate, Governor Control |
| | 495490 | 224 | 94905 | Screw, Sems, Air Cleaner |
| | | 225 | 495157 | Crank, Governor |
| 32 | 94695 | 227 | 493935 | Lever Assembly, Governor |
| 32A | 94648 | 230 | 94742 | Washer, Governor Crank |
| 33 | 495856 | 232 | 262785 | Spring, Governor Link |
| 34 | 495857 | 238 | 262836 | Cap, Valve |
| 35 | 262811 | 240 | 394358 | Filter, Fuel (In Fuel Line) |
| 37 | 224502 | 265 | 221535 | Clamp, Casing |
| 40 | 224641 | 284 | 94704 | Screw, Hex Head |
| 45 | 262411 | | | |
| 46 | 496884 | | | |
| 51 | 272465 | | | |
| | | * | | Included in Gasket Set (495993) |
| | | ** | | Included in Carburetor Kit (499233) |
| 52 | 272569 | *** | | Included in both Gasket Set (495993) and Valve Overhaul Kit (495992) |
| 53 | 94637 | **** | | Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (494385) |
| 75 | 225136 | | | |
| 78 | 94832 | | | |
| 87 | 491323 | | | |
| 93 | 281346 | | | |
| 94 | 498030 | | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.259830

BRIGGS & STRATTON ENGINE - MODEL NUMBER 28N707, TYPE NUMBER 1173-E1

| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|------------------|--|------------------|-----------------------------------|
| 294 810068 | Screw, Set | 729A 225170 | Retainer, Wire |
| 304 496280 | Housing, Blower | 741 262932 | Gear, Timing |
| 305 94786 | Screw, Hex, Head, Blower Housing Mounting | 757 213998 | Link, Counterweight |
| 306 225020 | Shield, Cylinder | 758 399891 | Counterweight Assembly |
| 307 94930 | Screw, Cylinder Shield | 759 298909 | Pin, Counterweight |
| 309 497595 | Motor, Starter | 761 94593 | Screw, Counterweight |
| 310 497602 | Bolt, Thru | 783 280104 | Gear, Starter |
| 311 497608 | Brush Set | 801 394856 | Cap, Drive |
| 333 495859 | Armature, Magneto | 802 497605 | Cap, End |
| 334 94731 | Screw, Sems, Armature Mounting | 803 497604 | Housing, Starter |
| 337 491055 | Plug, Spark | 842 270920 | * Seal, Oil Filler Cap |
| 346 93705 | Screw, Hex Head | 847 496415 | Fill Group, Oil |
| 356 497708 | Wire Assembly | 851 224110 | Terminal, Ignition Cable |
| 358 495993 | Gasket Set | 868 494435 | *** Seal Assembly, Valve |
| 363 19203 | Puller, Flywheel | 868A 272610 | *** Gasket, Valve |
| 383 89838 | Wrench, Spark Plug | 871 262835 | Bushing, Guide (Intake & Exhaust) |
| 423 94903 | Screw, Sems | 872 281361 | Cover, Air Cleaner |
| 445 493909 | Cartridge, Air Cleaner | 875 495862 | Body, Air Cleaner |
| 467 493903 | Knob, Air Cleaner | 877 393456 | Diode and Connector Assembly |
| 468 494439 | Screen, Flush Rotating | 947 497672 | Solenoid |
| 474 393474 | Stator, Alternator | 965 94010 | Nut, Hex |
| 482 93621 | Screw, Sems | 975 495933 | Bowl Assembly, Carburetor |
| 503 806000 | Strap, Starter | 977 494385 | Carburetor Gasket Set |
| 510 497606 | Drive, Starter | 987 281166 | ** Seal, Throttle Shaft |
| 523 495230 | Cap and Dipstick, Oil Filler | 1005 281400 | Fan, Flywheel |
| 524 281370 | * Seal, Filler Tube | 1006 224413 | Retainer, Fan |
| 525 496113 | Tube, Oil Filler | 1019 496758 | Label Kit |
| 535 272403 | Element, Filter | 1022 272475 | *** Gasket, Cover |
| 537 281106 | * O-Ring, Air Cleaner | 1023 224552 | Cover, Rocker Arm |
| 544 497603 | Armature, Starter | 1026 494432 | Rod, Push, Intake |
| 552 491986 | Bushing, Governor Crank | 495136 | Rod, Push, Exhaust |
| 562 94907 | Bolt, Carriage | 1029 224554 | Arm, Rocker |
| 592 231978 | Nut, Hex | 1033 495992 | Valve Overhaul Kit |
| 601 93053 | Clamp, Fuel Pipe | 1034 495248 | Guide Assembly, Push Rod |
| 614 93306 | Pin, Cotter | 1036 499364 | Label Kit, Emissions |
| 615 263080 | Retainer | 1044 94673 | Screw, Hex Head |
| 618 262803 | Spring, Choke Return | 1054 270723 | Tie, Cable |
| 634 494453 | * Seal, Spring Assy. | 1058 272623 | Manual, Owner's |
| 634A 494455 | * Seal, Spring Assy. | 1090 497607 | Retainer, Brush |
| 634B 281167 | ** Washer, Throttle Shaft | 1091 281364 | Cap, Limiter |
| 635 280872 | Boot, Spark Plug | 2500 28N707-1026 | Replacement Engine |
| 646 224546 | Brace, Air Cleaner | — — 496050 | Replacement Shortblock |
| 657 94906 | Screw, Sems | | |
| 663 94620 | Screw, Self-Tapping | | |
| 718 230192 | Pin, Dowel | | |
| 726 399676 | Gear, Ring (Includes Mounting Hardware) | | |
| 727 490324 | Cover, Starter | | |
| 728 94951 | Screw, Torx® | | |
| 729 281390 | Clip, Wire | | |

RPM Settings: Low: 1650-1850, High: 3200-3400

* Included in Gasket Set (495993)

** Included in Carburetor Kit (499233)

*** Included in both Gasket Set (495993) and Valve Overhaul Kit (495992)

**** Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (494385)

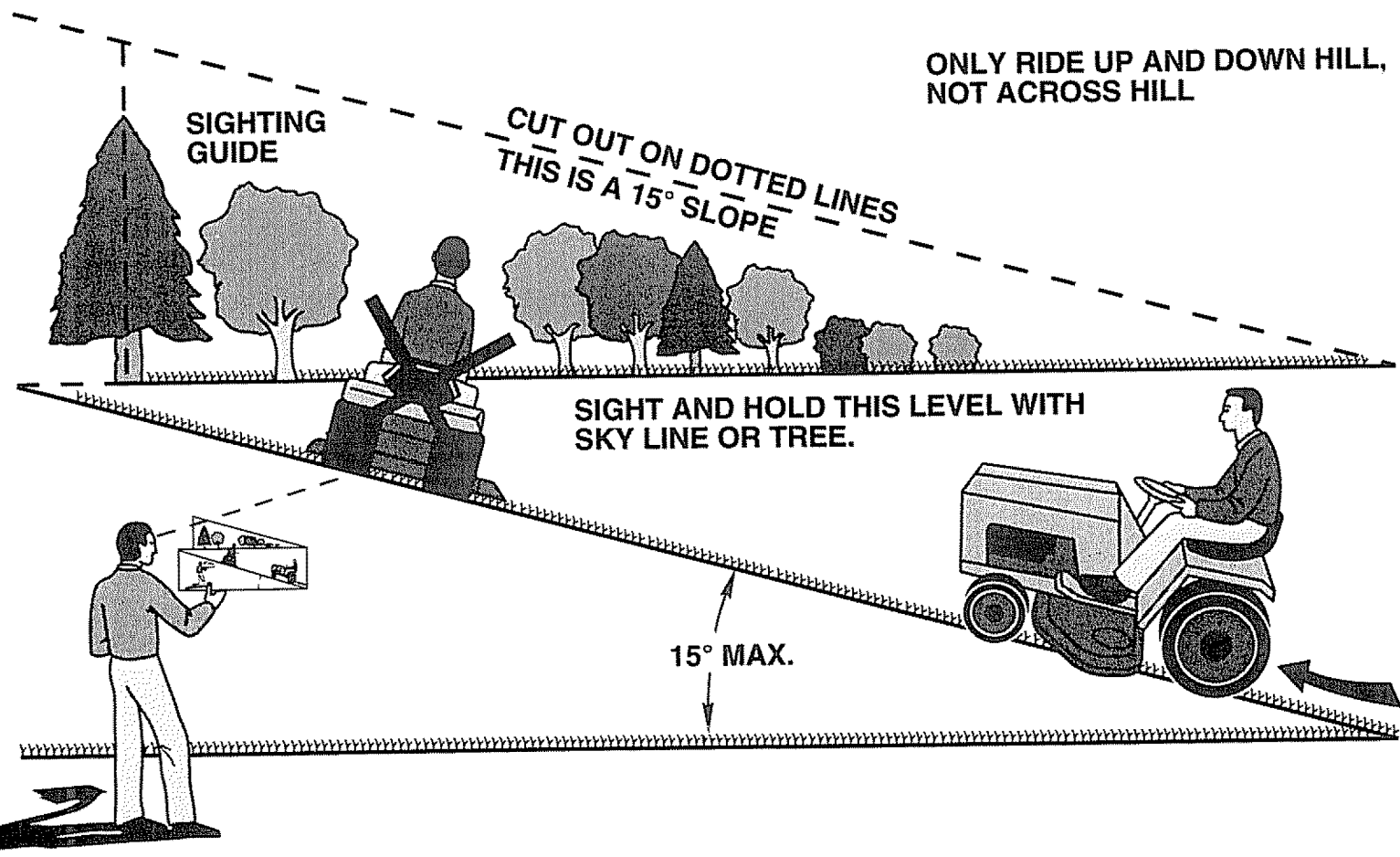
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm


SERVICE NOTES

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

SEARS
OWNER'S
MANUAL

MODEL NO.
917.259830

IF YOU NEED
REPAIR SERVICE
OR PARTS:

FOR REPAIR SERVICE, CALL
THIS TOLL FREE NUMBER:

1-800-4-REPAIR
(1-800-473-7247)

FOR REPLACEMENT PARTS
INFORMATION AND
ORDERING, CALL THIS
TOLL FREE NUMBER:

1-800-FON-PART
(1-800-366-7278)

FOR CONSUMER ASSISTANCE
HOT LINE, CALL THIS
TOLL FREE NUMBER:

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15.5 HP
ELECTRIC START
42" MOWER
AUTOMATIC (HYDROSTATIC)
LAWN TRACTOR

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

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

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

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- **PRODUCT - TRACTOR**
- **MODEL NUMBER - 917.259830**
- **ENGINE MODEL NO. - 28N707, TYPE NO. 1173-E1**
- **PART NUMBER**
- **PART DESCRIPTION**

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.