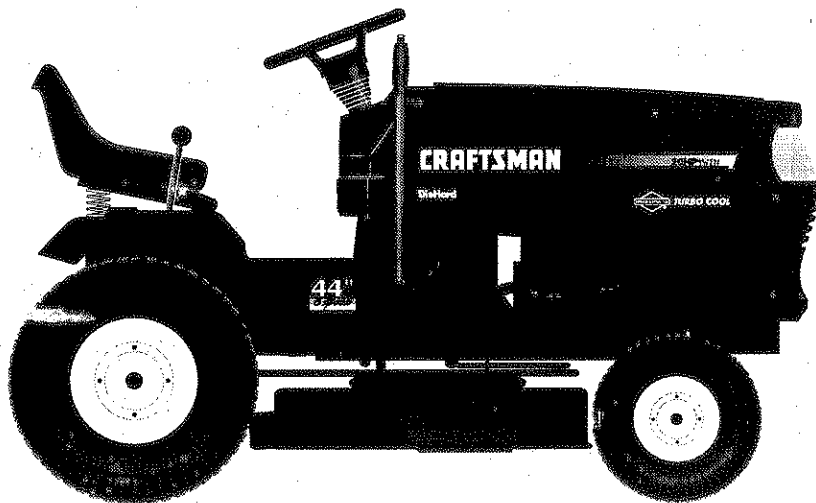


SEARS

CRAFTSMAN[®]

MODEL NUMBER 917.251470 OWNER'S MANUAL

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



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 dismantling.
- 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 | 917.251470 |
| SERIAL NUMBER | _____ |
| DATE OF PURCHASE | _____ |
| THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT. | |
| YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE. | |

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

PRODUCT SPECIFICATIONS

| | |
|-----------------------------|--|
| HORSEPOWER: | 20.0 |
| GASOLINE CAPACITY AND TYPE: | 5 QUARTS UNLEADED REGULAR |
| OIL TYPE (API-SF/SG): | SAE 30 (above 32°F) SAE 5W-30 (below 32°F) |
| OIL CAPACITY: | 3.0 PINTS |
| SPARK PLUG: (GAP: .030") | CHAMPION RJ19LM |
| VALVE CLEARANCE: | INTAKE: .004" - .006" EXHAUST: .007" - .009" |
| GROUND SPEED (MPH): | FORWARD: 1st 1.1 2nd 1.4 3rd 2.3 4th 3.5 5th 4.4 6th 5.7 REVERSE: 1.7 |
| TIRE PRESSURE: | FRONT: 14 PSI REAR: 10 PSI |
| CHARGING SYSTEM: | 3 AMPS BATTERY 5 AMPS HEADLIGHTS |
| BATTERY: | AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R |
| BLADE BOLT TORQUE: | 30-35 FT. LBS. |

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

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

- Replaceable 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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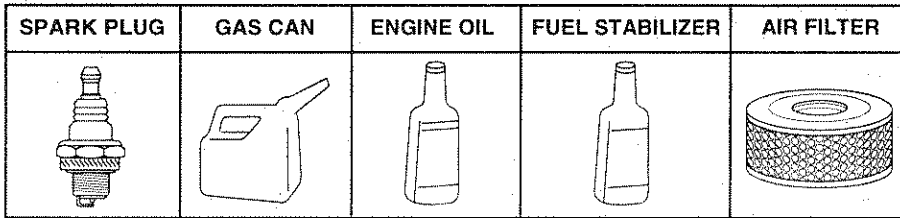
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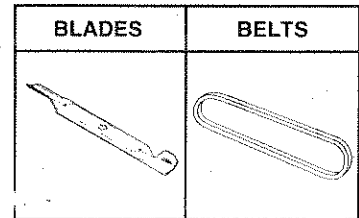
ACCESSORIES AND ATTACHMENTS

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



MAINTENANCE



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.

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.

DISC HARROW has 2 gangs of 4 steel blades that angle from 10 to 20 degrees, 40 inches wide. Can hook 2 units in tandem. (Requires sleeve hitch.)

DOZER BLADE removes snow; grades dirt, sand and gravel. 48 inches wide, 17 inches high, clears 44-inch path when angled. Master lift control lever for operator ease. Spring trip for snow removal on uneven pavement; built-in float for blade to follow ground contour. Reversible, replaceable scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

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).

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.

PLOW turns soil 6 inches deep, cuts 10-inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy steel landside for straight furrowing. (Requires sleeve hitch.)

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

REAR GRADER BLADE is 42 inches wide and operated from driver's seat. Reversible steel blade can be angled at 30 degrees for grading. Reverses for pushing snow backwards. (Requires sleeve hitch.)

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.

SLEEVE CULTIVATOR is 43 inches wide. Prepares ground for seeding, helps weed control. Steel frame holds 5 adjustable sweeps. Adjusts vertically, horizontally. (Requires sleeve hitch.) **Optional accessory:** steel furrow opener for wider openings for potatoes, corn, and other deep-seeded crops.

SLEEVE HITCH for use with master lift system. Single pin couples/uncouples.

SNOWTHROWER has 42-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 de-icers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER has 8 hp engine to prepare seed beds, cultivate, and compost garden residue. Chain-drive transmission. Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path. (Requires sleeve hitch.) Or use 5 hp tow-behind **TILLER** with 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** for 5 hp tiller 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.

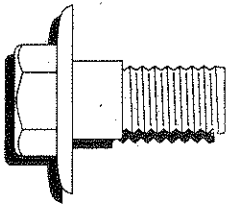
VACS for powerful collection of heavy grass clippings and leaves. **Optional wand attachment** to pick up debris in hard-to-reach places. **VAC/CHIPPER** includes a chipper-shredder.

WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

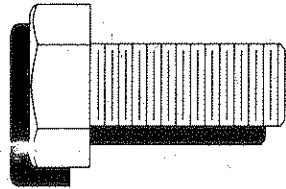
WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

CONTENTS OF HARDWARE PACK

Parts Bag contents shown full size

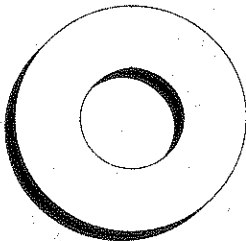
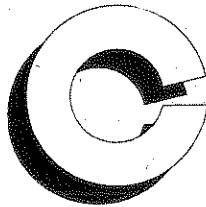


(1) Shoulder Bolt 5/16-18

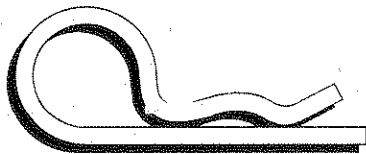


(1) Hex Bolt 1/2-13 x 1

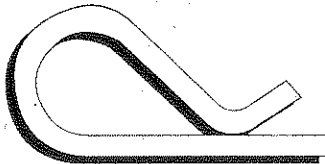
(1) Lock Washer 1/2



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



(3) Retainer Springs (double loop)



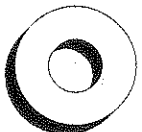
(4) Retainer Springs (single loop)



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



(2) Hex Nuts 1/4-20

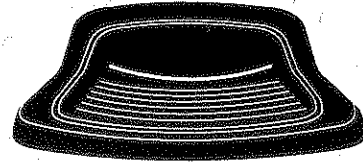


(2) Lock Washers 1/4

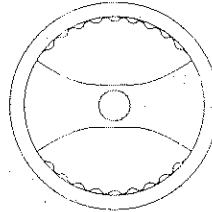


(2) Washers 9/32 x 5/8 x 16 Gauge

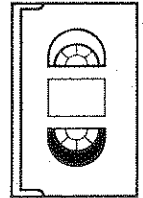
Parts packed separately in carton



Seat



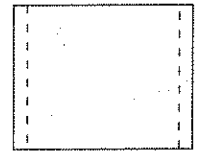
Steering Wheel



Video Cassette

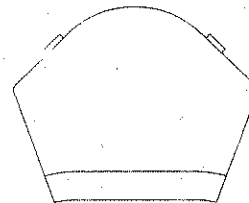


Manual

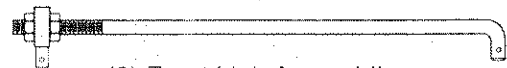


Parts Bag

Parts bag contents not shown full size



Steering Wheel Insert



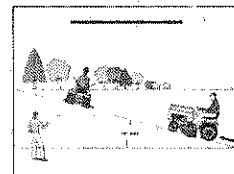
(2) Front Link Assemblies



Steering Sleeve



(2) Keys



Slope Sheet

ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (2) 7/16" wrenches Utility knife
- (1) 1/2" wrench Tire pressure gauge

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)

- Remove locknut and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto adapter.
- Secure steering wheel to steering shaft with locknut and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

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

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

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

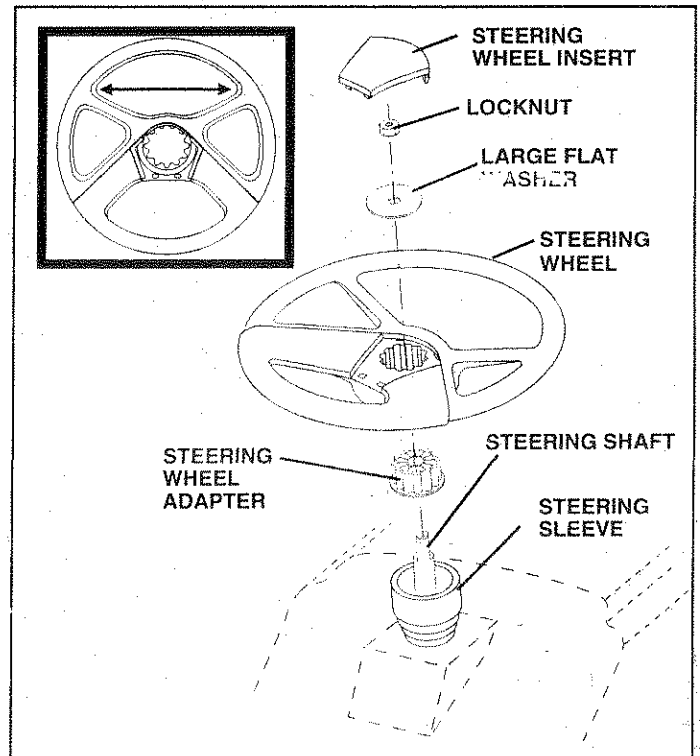


FIG. 1

CONNECT BATTERY (See Fig. 2)



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

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

- Lift hood to raised position.
- Open terminal access doors, 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 (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close terminal access doors.

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).

ASSEMBLY

- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

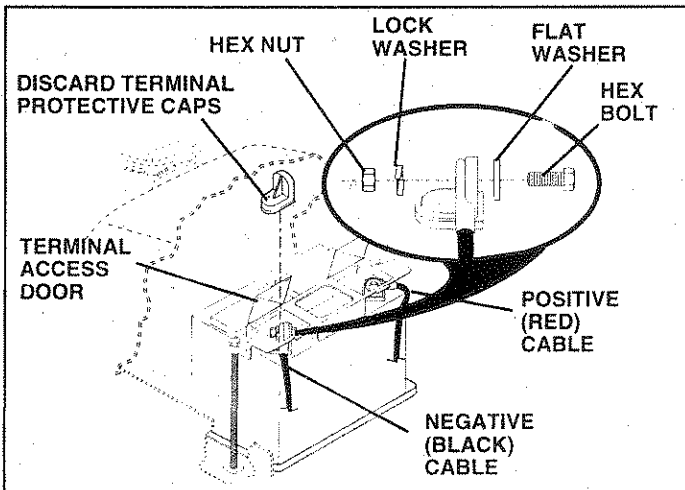


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment bolt.

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

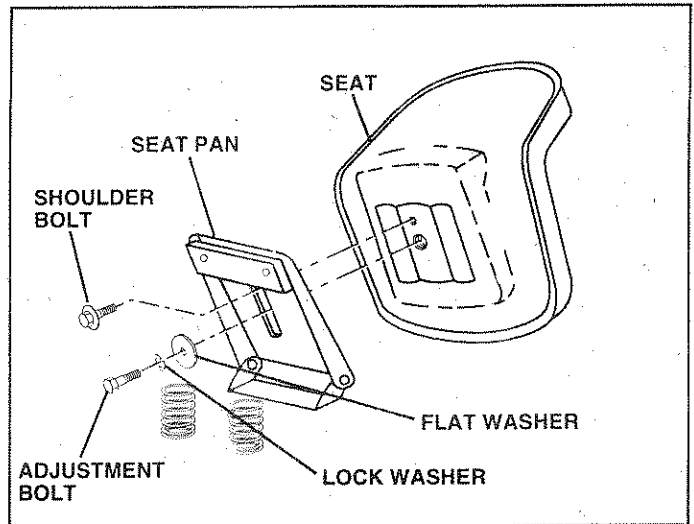


FIG. 3

CHECK TIRE PRESSURE

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

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

CHECK BRAKE SYSTEM

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

ASSEMBLY

INSTALL MOWER AND DRIVE BELT (See Figs. 4 and 5)

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

- Cut and remove ties securing anti-sway bar and belts. Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with discharge guard to right side of tractor.

IMPORTANT: CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES. INSTALL BELT INTO ENGINE PULLEY GROOVE.

- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in R.H. front suspension bracket and retain with single loop retainer spring as shown.
- Slide right side of mower back and install link in top hole of R.H. front mower bracket. Retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.

- Place the suspension arms on outward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Install clutch rod in clutch lever. Secure with retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.

CHECK MOWER LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

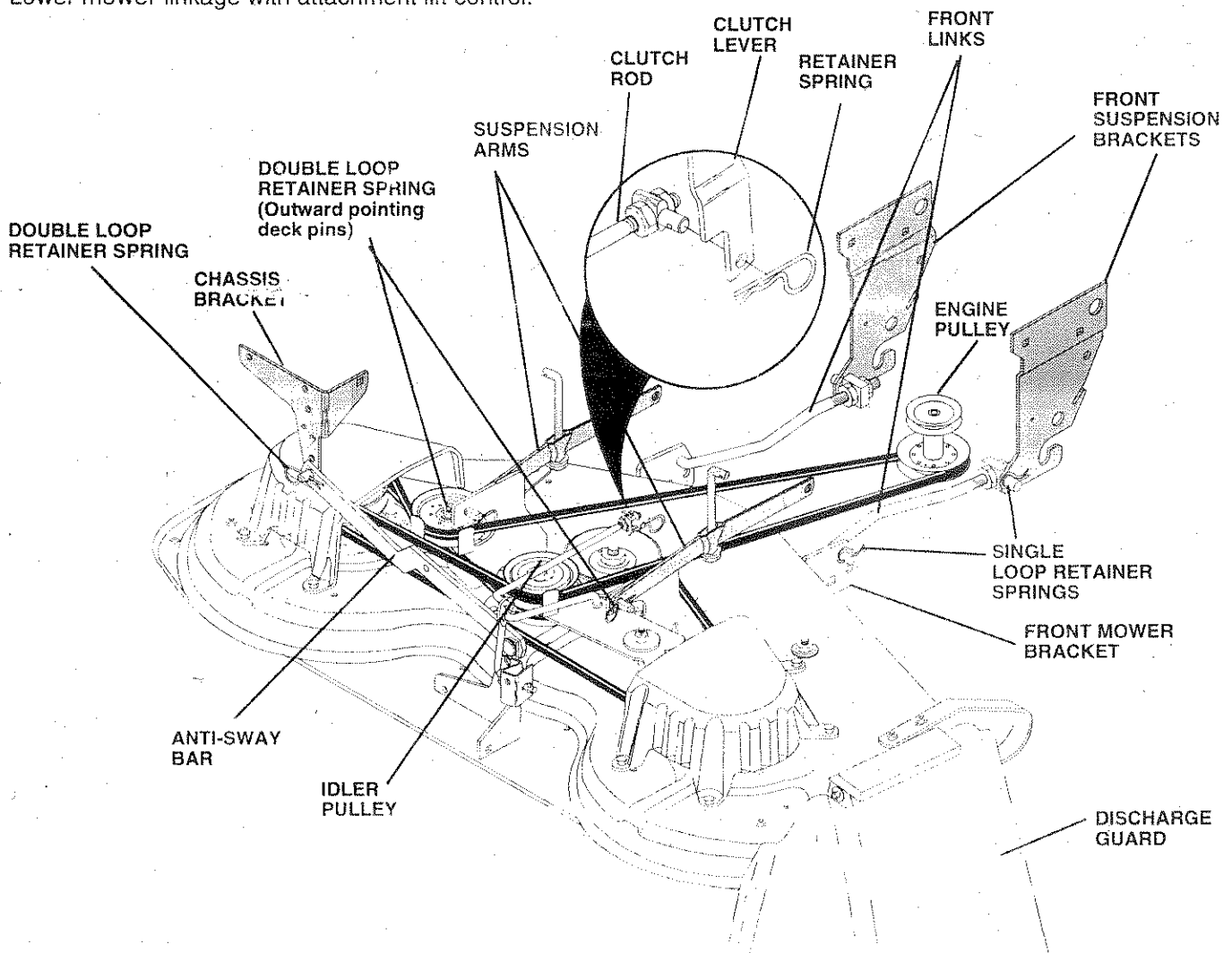


FIG. 4

ASSEMBLY

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



CLUTCH



LIGHTS ON



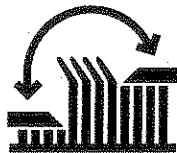
LIGHTS OFF



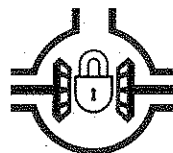
FUEL



CHOKE



MOWER HEIGHT



DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT

R

REVERSE

N

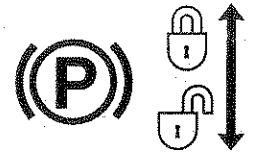
NEUTRAL

H

HIGH

L

LOW



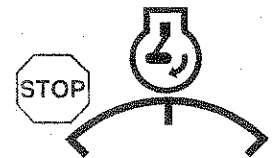
PARKING BRAKE



ATTACHMENT CLUTCH ENGAGED



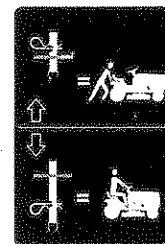
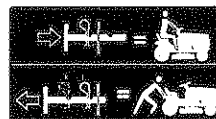
ATTACHMENT CLUTCH DISENGAGED



IGNITION



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL
(Hydro Models only)

OPERATION

KNOW YOUR TRACTOR

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

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

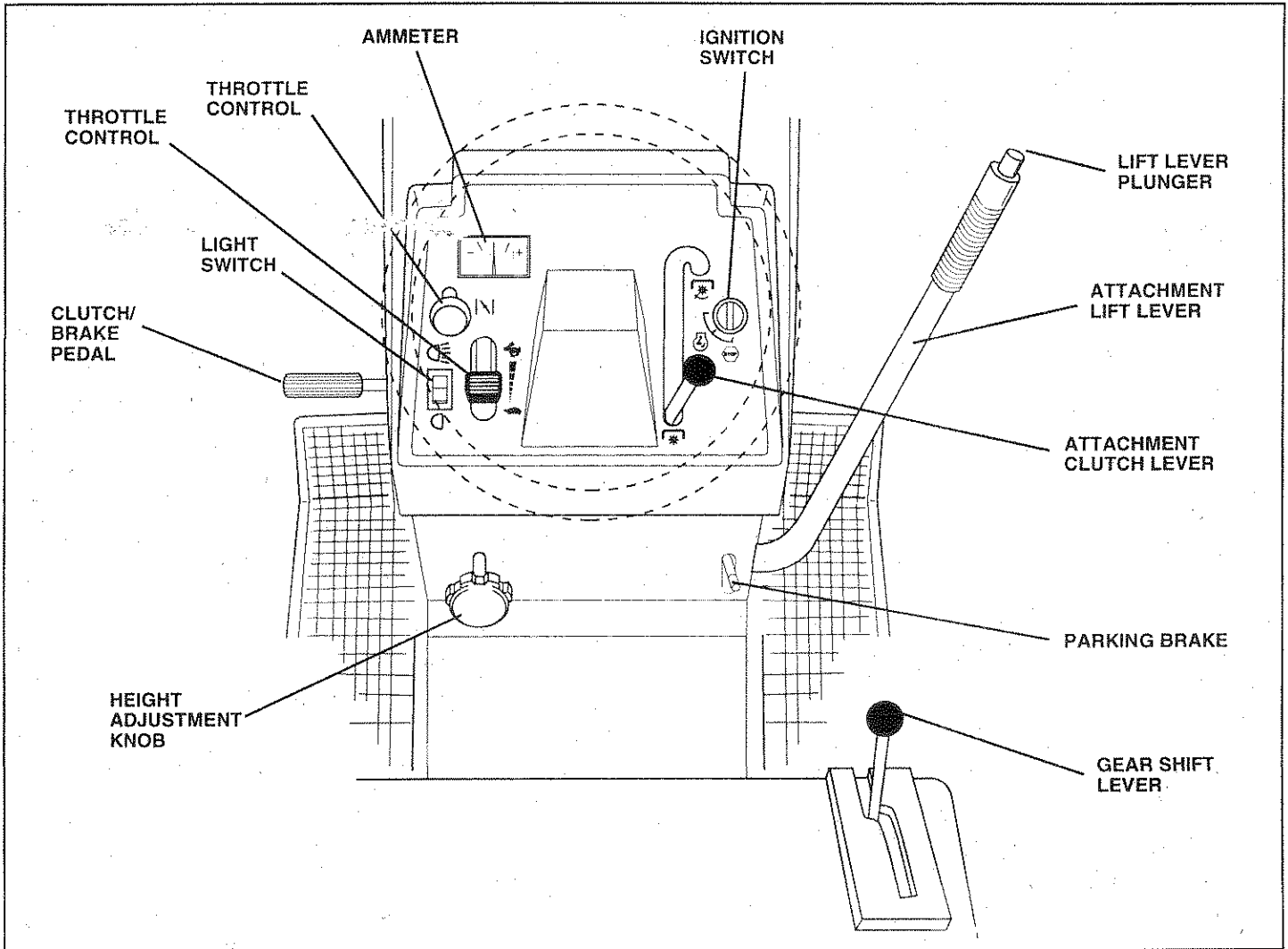


FIG. 5

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 CONTROL: Used to control 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.

CHOKE CONTROL - Used when starting a cold engine.

GEAR SHIFT LEVER - Selects the speed and direction of the 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. 6)

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.

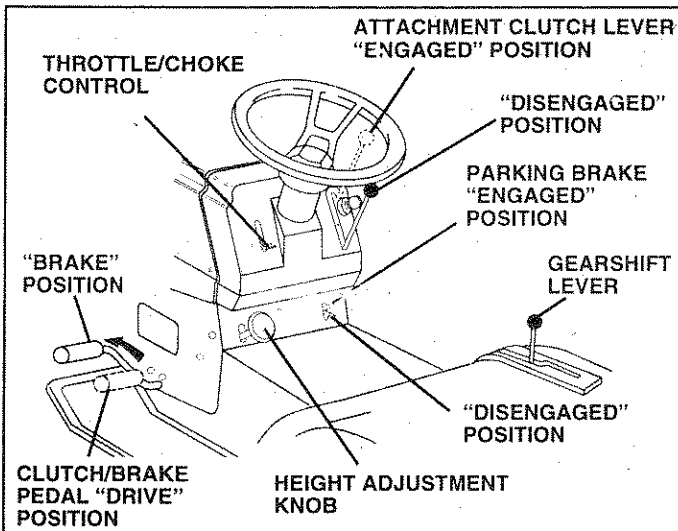


FIG.6

STOPPING (See Fig. 6)

MOWER BLADES -

- Move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

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

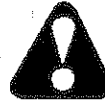
ENGINE -

- Move throttle control to slow (🐢) position.

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

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

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



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

TO USE THROTTLE CONTROL (See Fig. 6)

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 USE CHOKE CONTROL (See Fig. 6)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

- To engage choke control, pull knob out. Slowly push knob in to disengage.

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

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

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The 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. 7)

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.

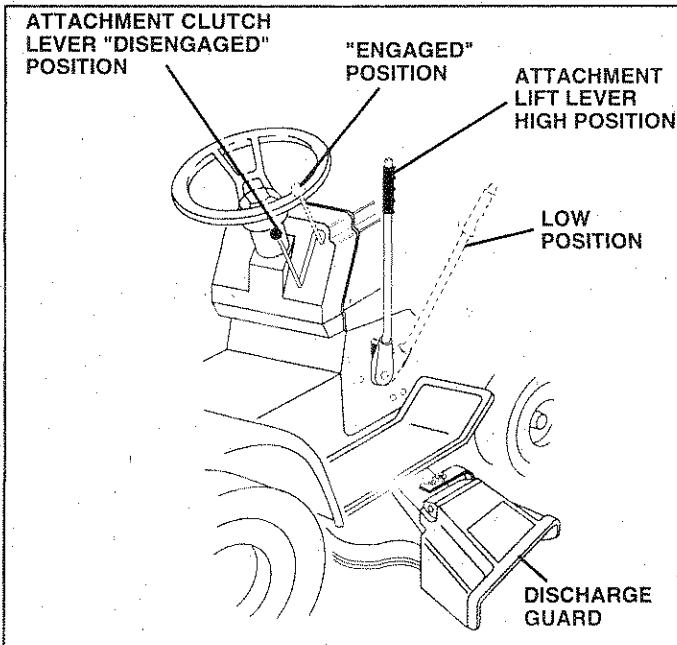


FIG. 7

TO OPERATE ON HILLS



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

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

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

TO TRANSPORT

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

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL (See Fig. 12)

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

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.

OPERATION

TO START ENGINE (See Fig. 7)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to choke (| \ |) position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between fast (↶) and slow (↷) positions.
- Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to fast (↶) position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to fast (↶) position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 8).
- 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.

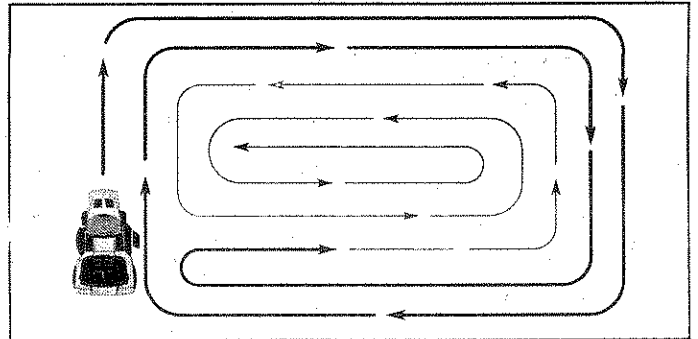


FIG. 8

CUSTOMER RESPONSIBILITIES

| MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE | | SERVICE DATES | | | | | | |
|---|-------------------------------------|-----------------|---------------|--------------------|----------------|------------------|-----------------|----------------|
| | | BEFORE EACH USE | FIRST 2 HOURS | EVERY 8 HOURS | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | 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.

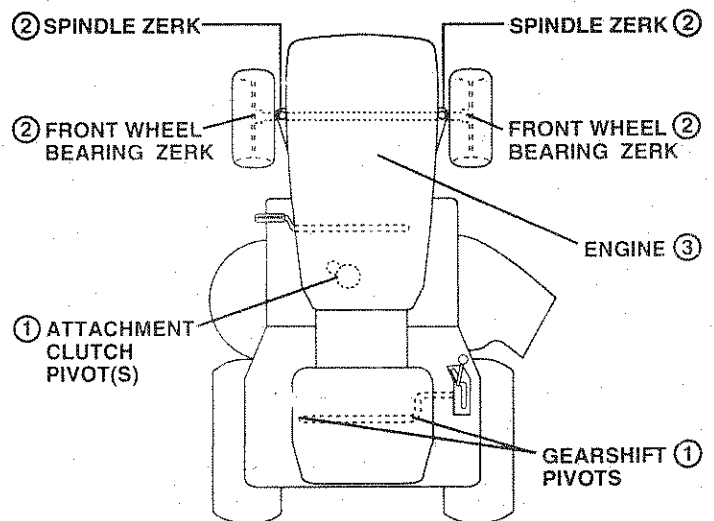
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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.

BLADE CARE

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

BLADE REMOVAL (See Fig. 9)

- 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.

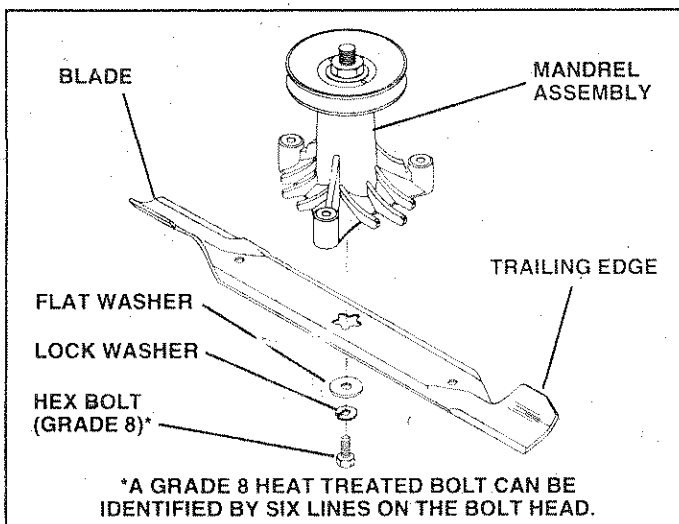


FIG. 9

TO SHARPEN BLADE (See Fig. 10)

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.

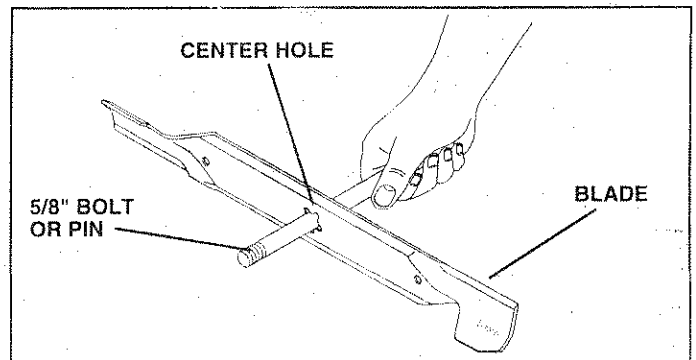


FIG. 10

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.

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

CUSTOMER RESPONSIBILITIES

V-BELTS

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

TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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

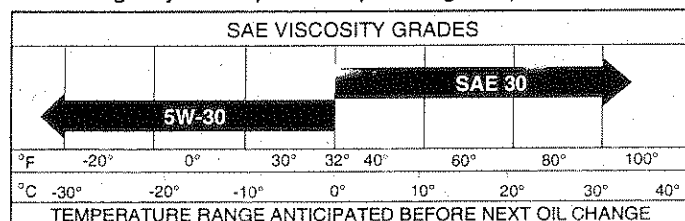


FIG. 11

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

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

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

TO CHANGE ENGINE OIL (See Fig. 11 and 12)

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

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

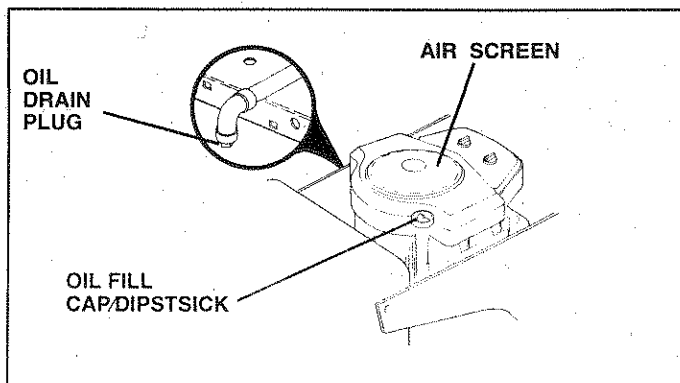


FIG. 12

CLEAN AIR SCREEN (See Fig. 12)

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.

AIR FILTER (See Fig. 13)

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

CUSTOMER RESPONSIBILITIES

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.

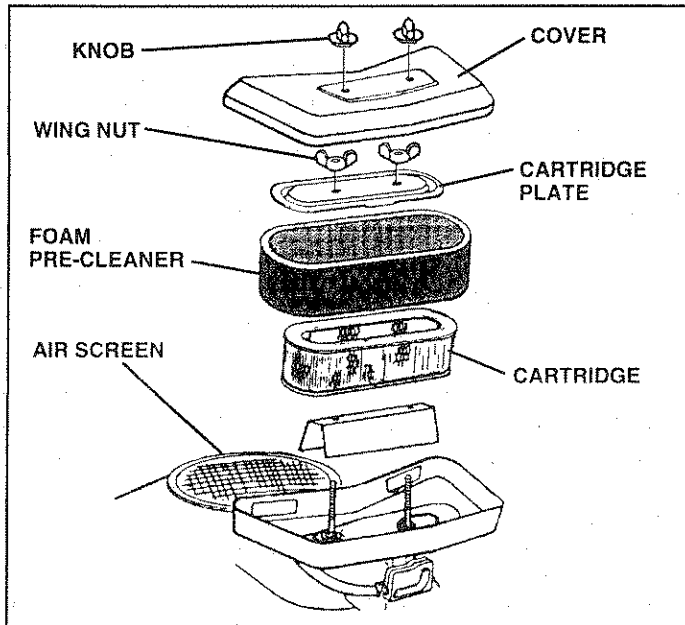


FIG. 13

ENGINE COOLING FINS (See Fig. 14)

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).

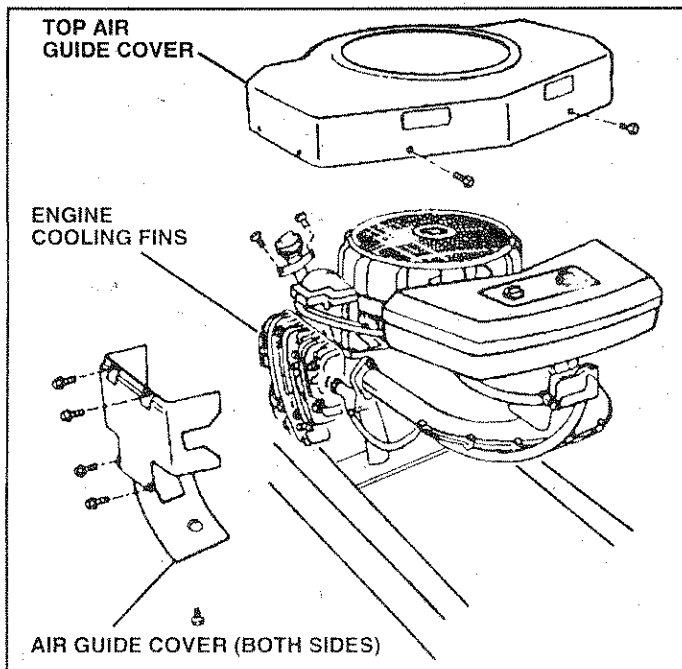


FIG. 14

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. 15)

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.

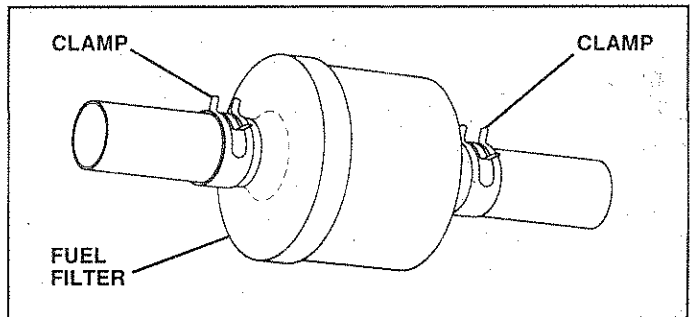


FIG. 15

CLEANING

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

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

SERVICE AND ADJUSTMENTS



CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TO REMOVE MOWER (See Fig. 16)

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt from engine pulley.
- Slide mower out from under right side of tractor.

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

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

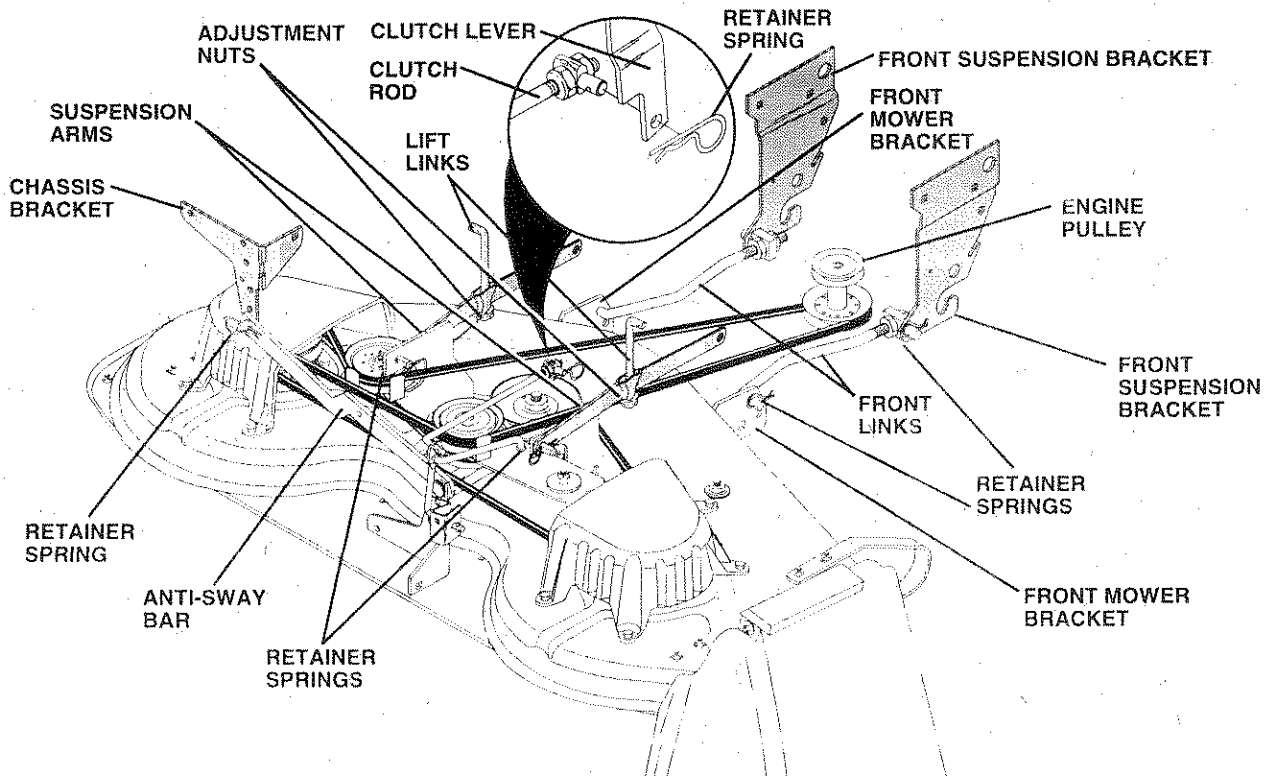


FIG. 16

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. 16 and 17)

- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- 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 3/16".

- Recheck measurements after adjusting.

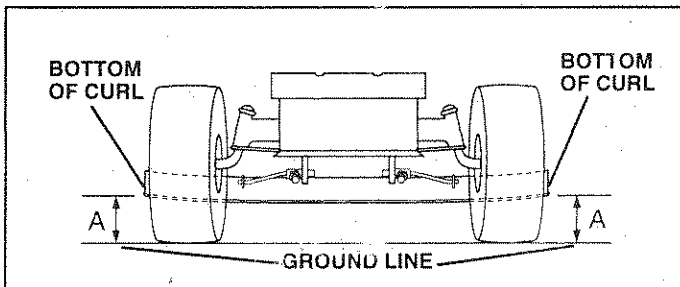


FIG. 17

FRONT-TO-BACK ADJUSTMENT (See Figs. 18 and 19) -

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 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 "F" directly in front of 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.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.
- To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

NOTE: Each full turn of nut "G" will change dim. "F" by approximately 3/8".

- Recheck side-to-side adjustment.

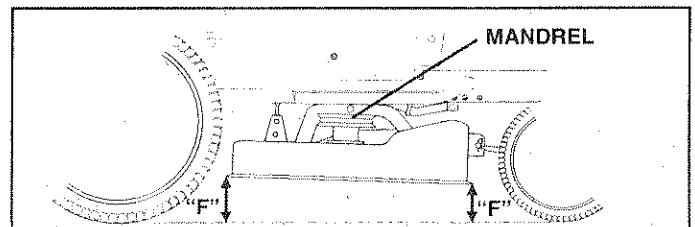


FIG. 18

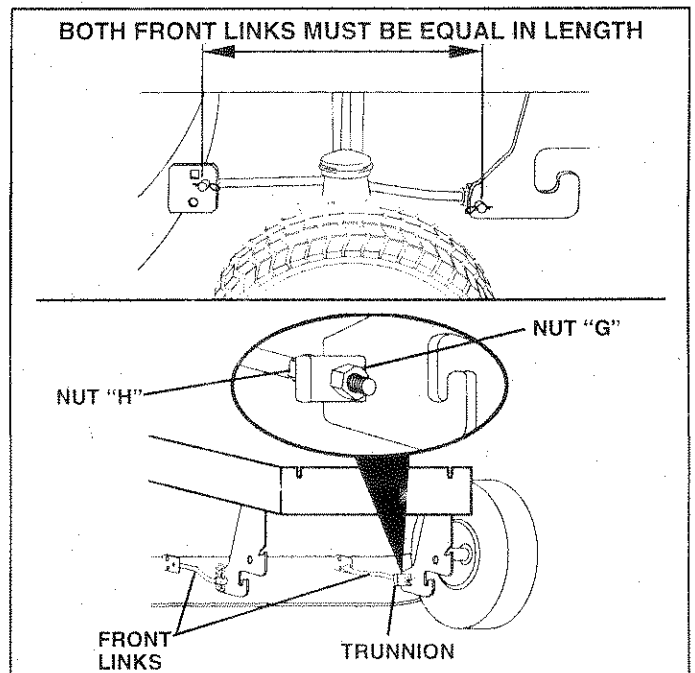


FIG. 19

SERVICE AND ADJUSTMENTS

TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 20) -

- Park tractor on a level surface. Engage parking brake. Disengage attachment clutch control.
- Remove four screws from L.H. mandrel cover and remove cover.
- Roll belt over the top of L.H. mandrel pulley.
- Remove belt from engine pulley.
- Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.

MOWER DRIVE BELT INSTALLATION (See Fig. 20) -

- Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
- Install new belt onto engine pulley.
- Roll belt into upper groove of L.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.
- Reassemble L.H. mandrel cover.

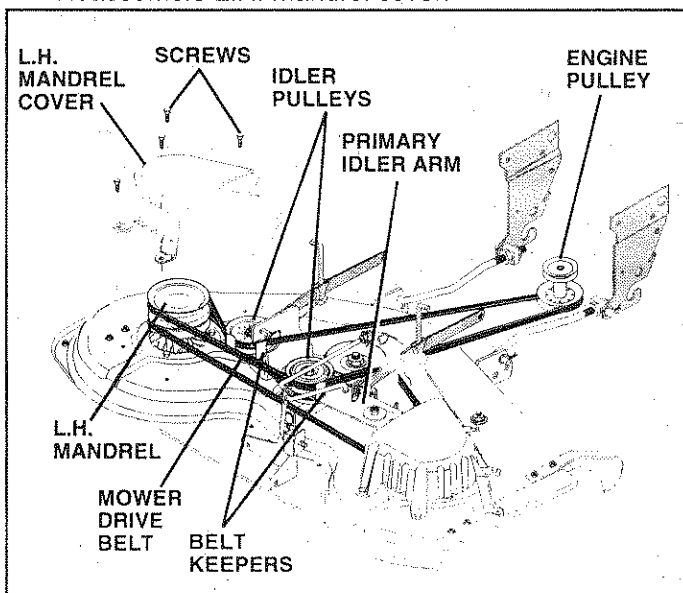


FIG. 20

TO ADJUST BRAKE (See Fig. 21)

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

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

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". 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.

WITH PARKING BRAKE "ENGAGED"

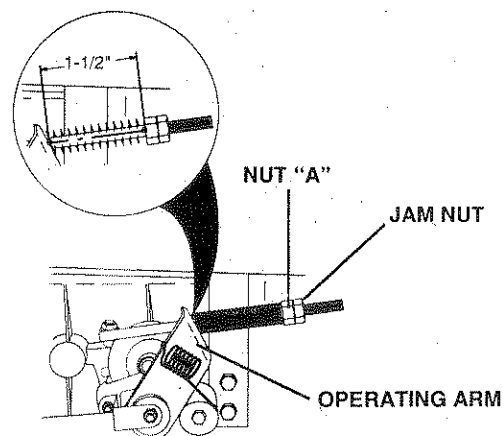


FIG. 21

TO REPLACE MOTION DRIVE BELT (See Fig. 22)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

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

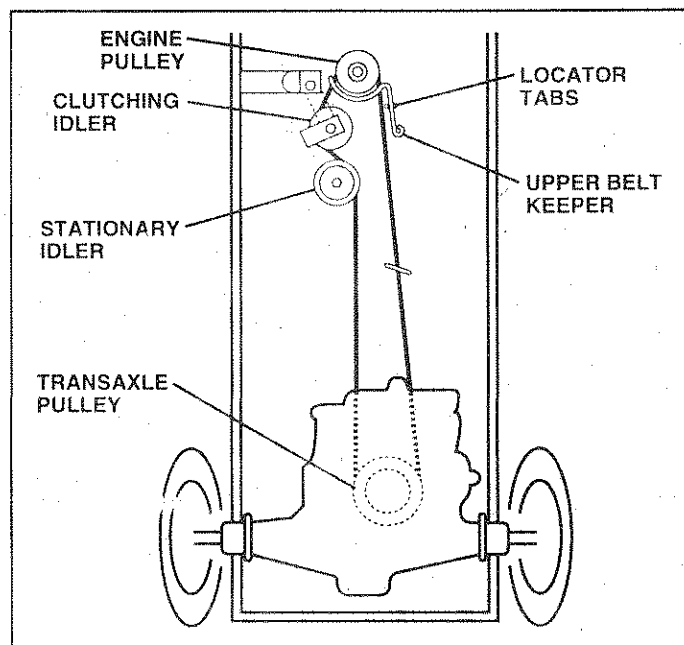


FIG. 22

SERVICE AND ADJUSTMENTS

TRANSAXLE SHIFTER LINKAGE AND ADJUSTMENT (See Figs. 23 and 24)

The transaxle should be in neutral when the gear shift lever is in the neutral (N) (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- Make sure transaxle is in neutral (N).
- Loosen two locknuts on tie rod.
- Turn center rod until gearshift lever falls into neutral lock gate on fender console.
- Tighten locknuts securely.

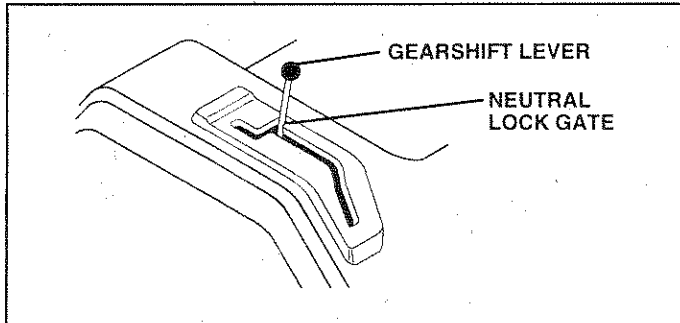


FIG. 23

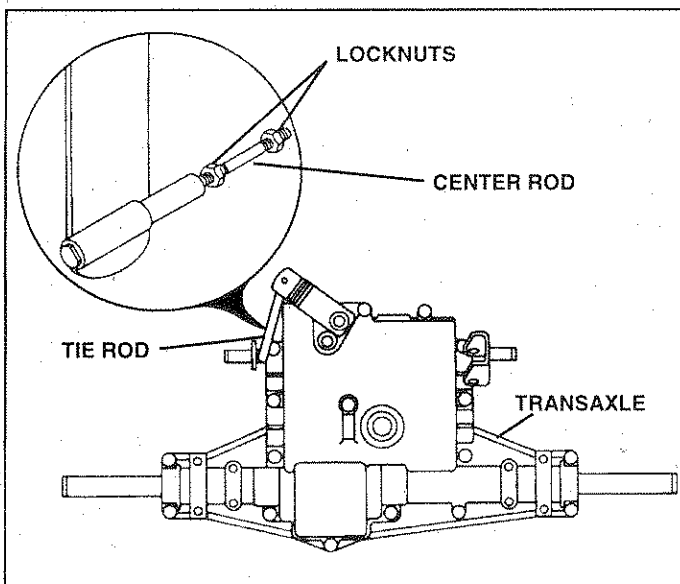


FIG. 24

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. 25)

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

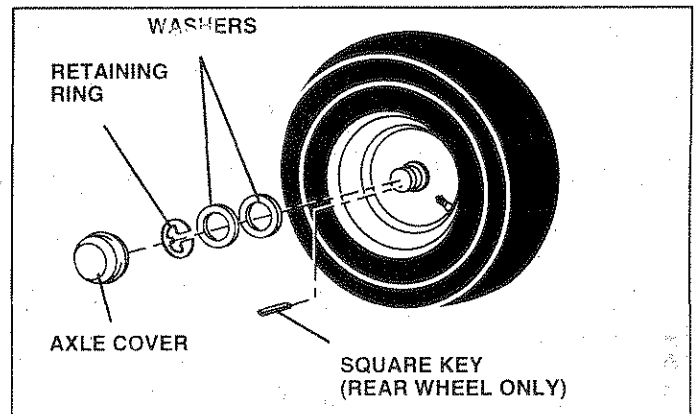


FIG. 25

TO START ENGINE WITH A WEAK BATTERY (See Fig. 26)



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

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

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

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

SERVICE AND ADJUSTMENTS

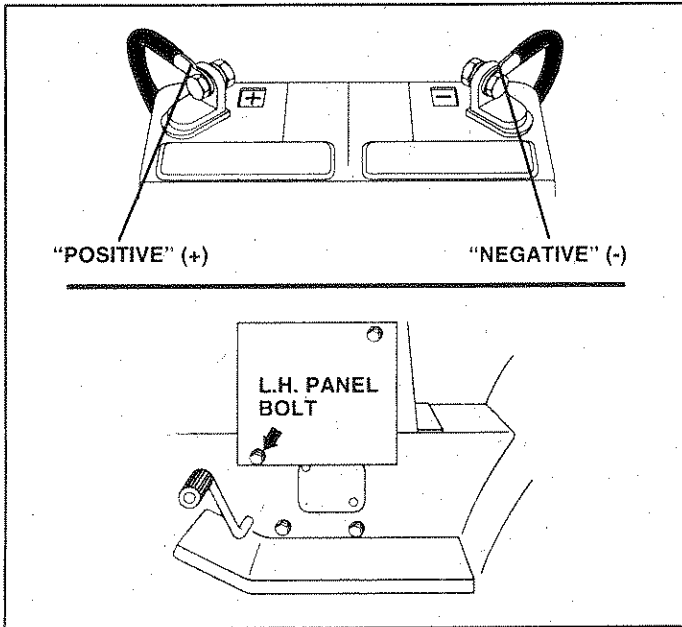


FIG. 26

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 27)

- 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.

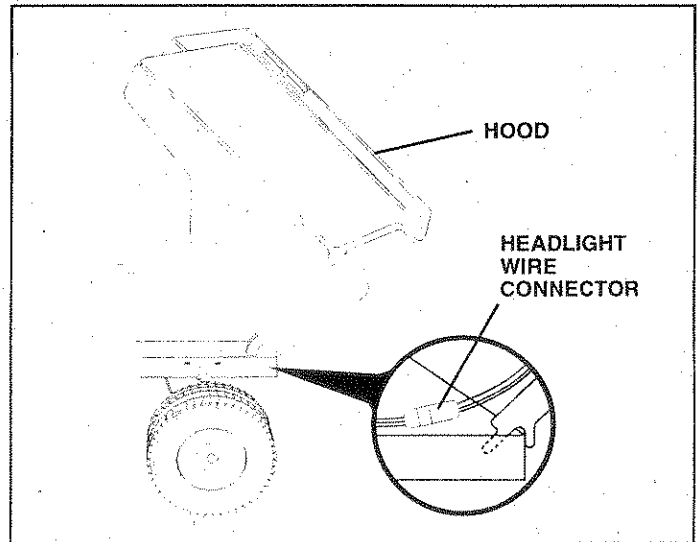


FIG. 27

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 28)

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 to fast (←) position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

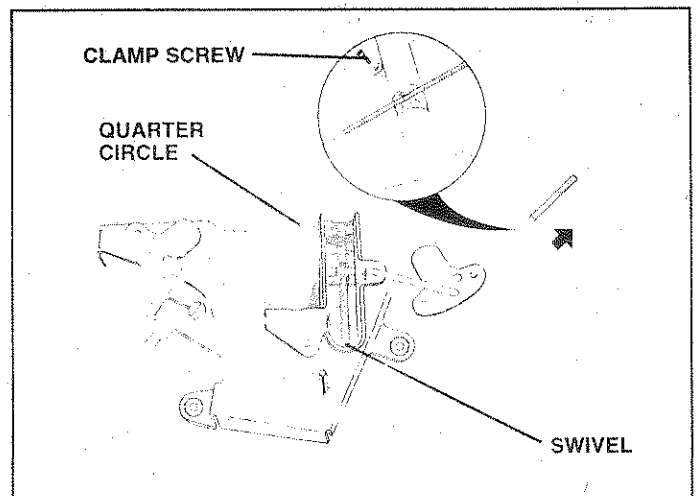


FIG. 28

TO ADJUST CHOKE CONTROL (See Fig. 29)

The choke 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:

SERVICE AND ADJUSTMENTS

- With engine not running, move choke control (located on dash panel) to full choke (N) position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

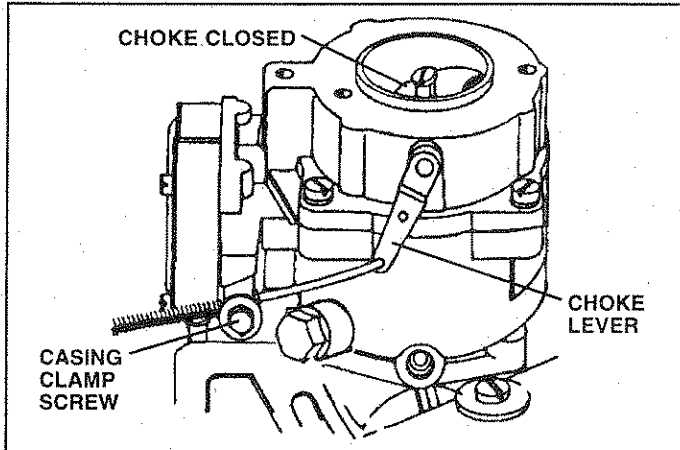


FIG. 29

TO ADJUST CARBURETOR (See Figs. 30 & 31)

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 the mixture screw **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 to 1-1/2 turns.

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.
- With throttle control lever in slow (S) position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.

- While still holding throttle lever against idle speed screw, turn idle mixture screw **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

ACCELERATION TEST -

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

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

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

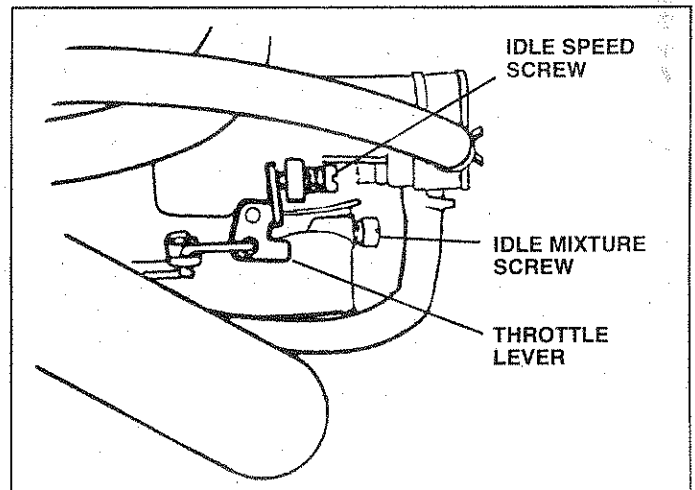


FIG. 30

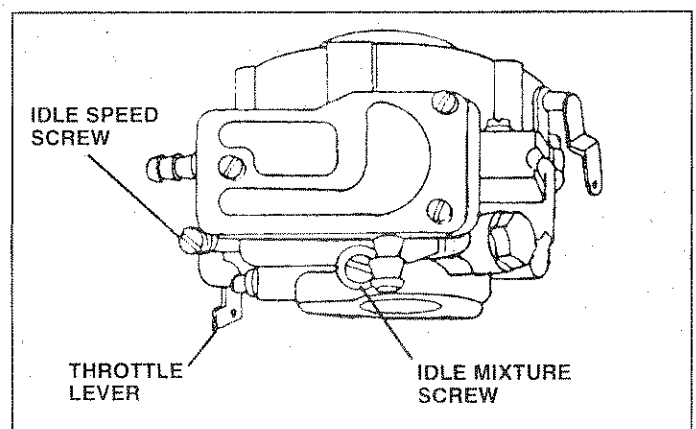


FIG. 31

STORAGE

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



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

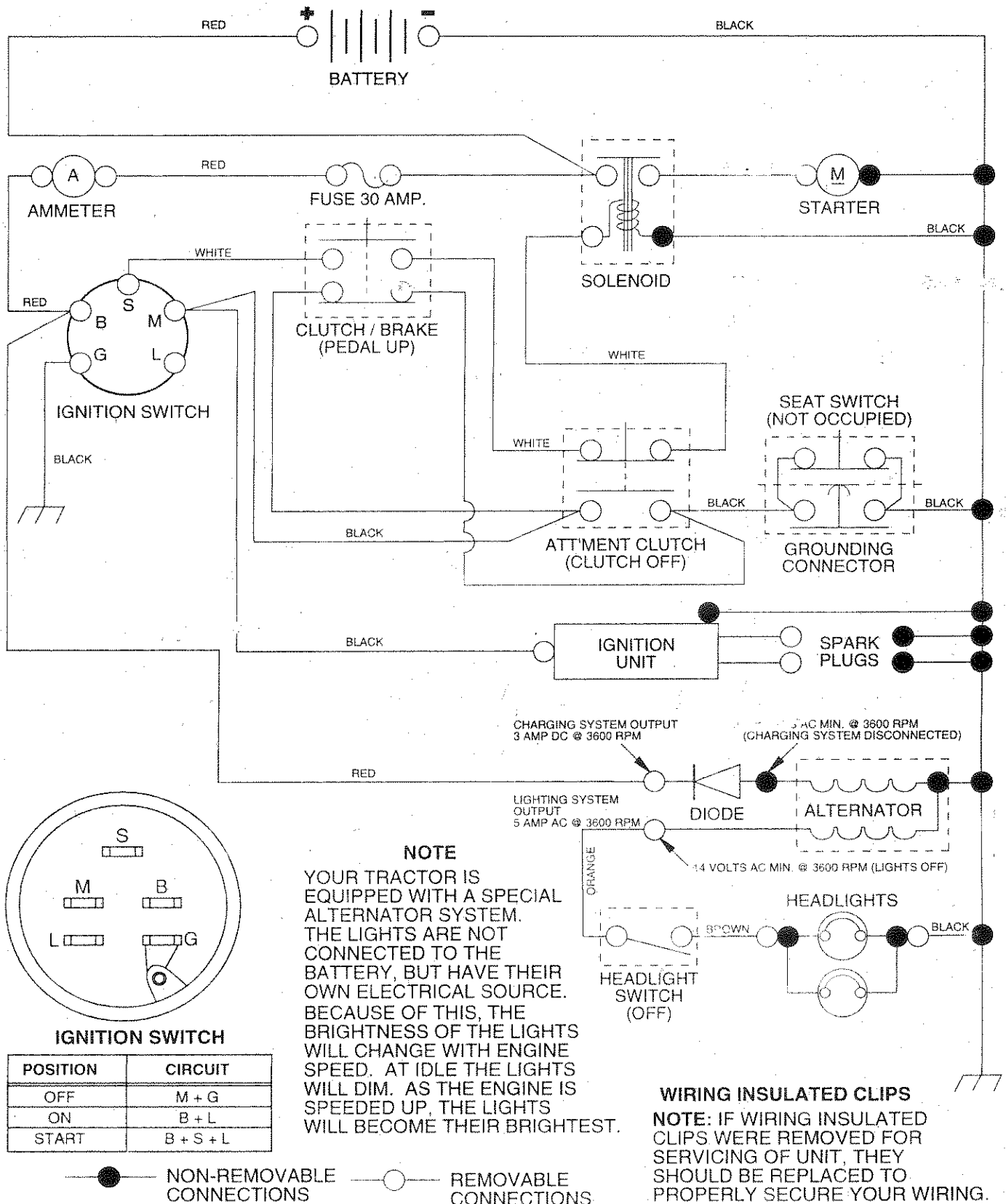
| PROBLEM | CAUSE | CORRECTION |
|---|---|--|
| Will not start | <ol style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment.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

TROUBLESHOOTING POINTS

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

TRACTOR -- MODEL NUMBER 917.251470

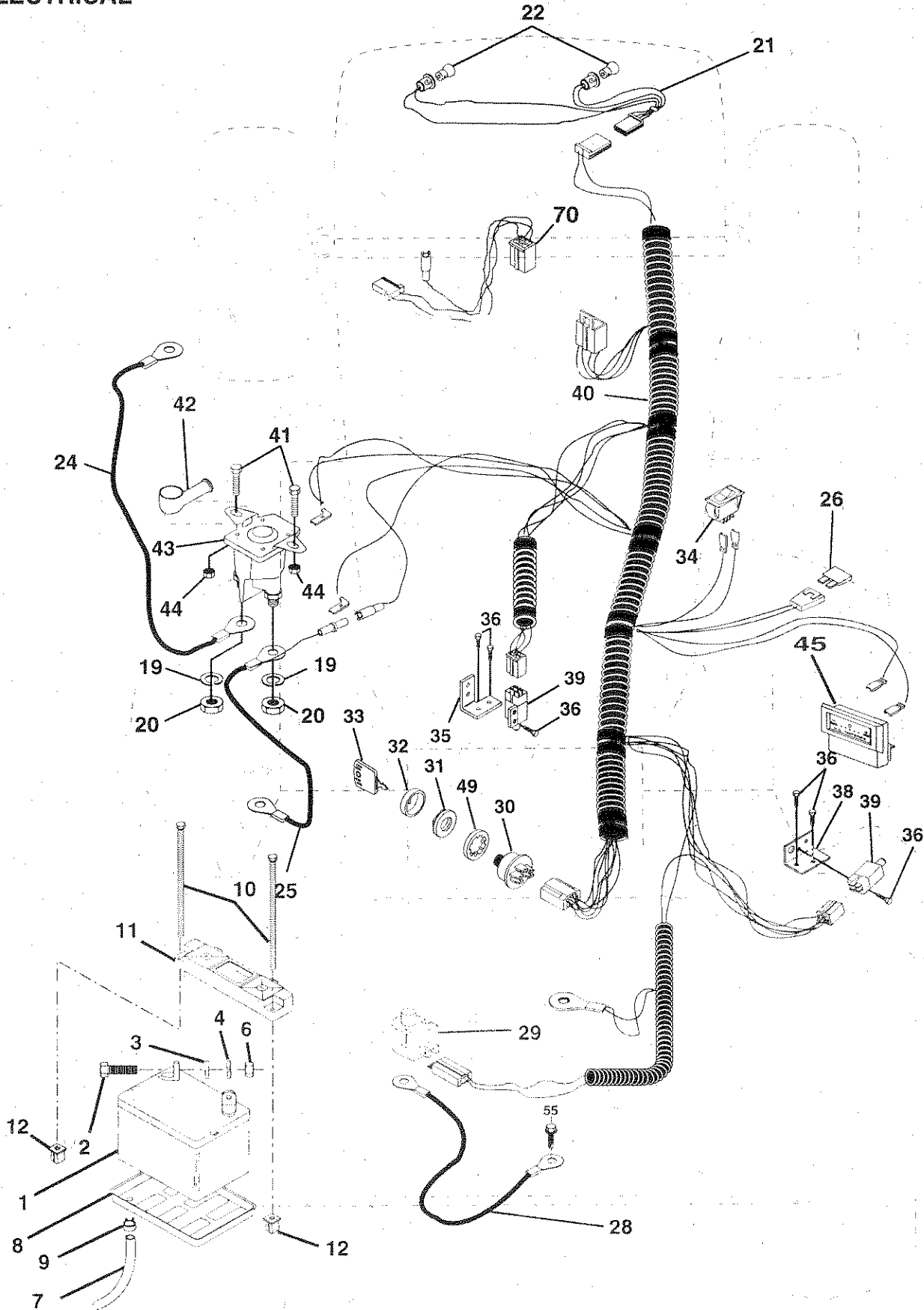
SCHEMATIC



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ELECTRICAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ELECTRICAL

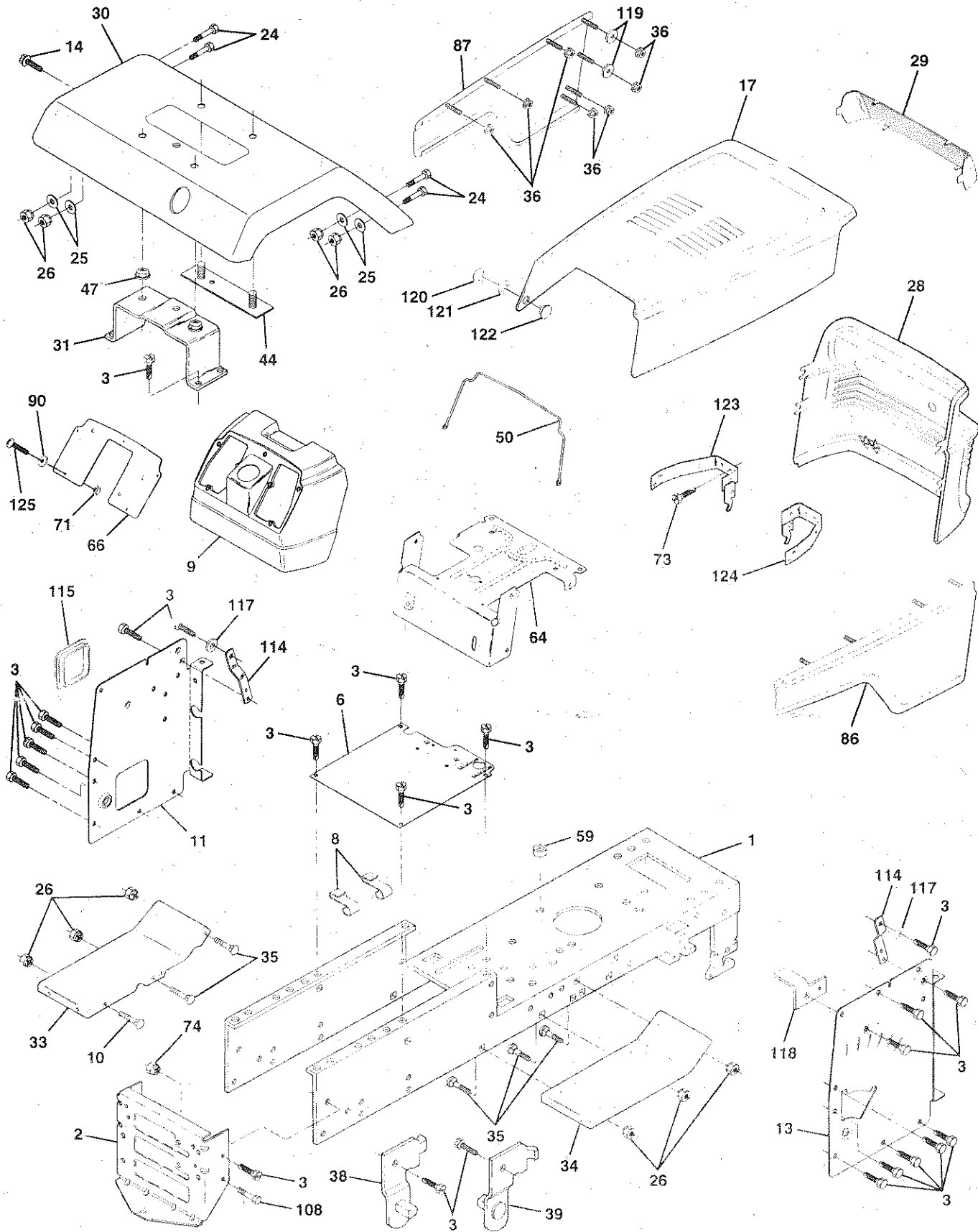
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-------------------|--------------------------------------|
| 1 | 146140 | Battery 12 Volt 30 amp |
| 2 | 74760412 | Bolt Hex Hd 1/4-20unc X 3/4 |
| 3 | STD551025 | Washer 9/32 X 5/8 X 16 Ga |
| 4 | STD551125 | Washer Lock Hvy Helical 1/4 |
| 6 | STD541025 | Nut Fin Hex 1/4-20 Unc |
| 7 | 7697J | Tube Plastic 46" |
| 8 | 7603J | Tray Battery 7 80 X 5 25 Blk |
| 9 | 109596X | Clamp Hose Olive |
| 10 | 145411 | Bolt RdHd Sqnk 1/4-20 x 7-1/2 145211 |
| 11 | 145209 | Guard Terminal Blk |
| 12 | 145769 | Nut Push Nylon 1/4 Battery |
| 19 | STD551125 | Washer Lock 1/4 |
| 20 | 73350400 | Nut Jam Hex 1/4-20 Unc |
| 21 | 136850 | Harness Asm Light W/4152j |
| 22 | 4152J | Bulb Light #1156 |
| 24 | 4799J | Cable Ground 6 Ga black |
| 25 | 146148 | Cable Battery 6 Ga 22" red |
| 26 | 108824X | Fuse 30 AMP Auto Green |
| 28 | 145491 | Cable Battery 6 Ga 21" black |
| 29 | 121305X | Switch Plunger |
| 30 | 144921 | Switch Ign 3 pos |
| 31 | 140400 | Nut Ignition |
| 32 | 141226 | Cover Sw Key Blk 1 25 Text SLT |
| 33 | 140403 | Key Ign Molded Craftsman Delta |
| 34 | 110712X | Switch Light Blk Blk Red |
| 35 | 108236X | Bracket Switch Clutch |
| 36 | STD601005 | Screw Tap Hex #10-24unc X 1/2 |
| 38 | 140336 | Bracket Switch Interlock |
| 39 | 109553X | Switch Intlk Clutch Red 4 Term |
| 40 | 145489 | Harness Ign B&S Dash HI Amm |
| 41 | 71110408 | Bolt Fin Hex 1/4-20uncx1/2 Gr5 |
| 42 | 131563 | Cover Terminal Red |
| 43 | 145673 | Solenoid |
| 44 | 73640400 | Nut Keps Hex 1/4-20 Unc |
| 45 | 121433X | Ammeter Rectangular |
| 49 | 153249 | Washer Pinned Delta |
| 55 | 17490508 | Screw Endrol 5/16-18 x 1/2 Tyt |
| 70 | 140413 | Harness Engine B&S |

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

CHASSIS



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

CHASSIS

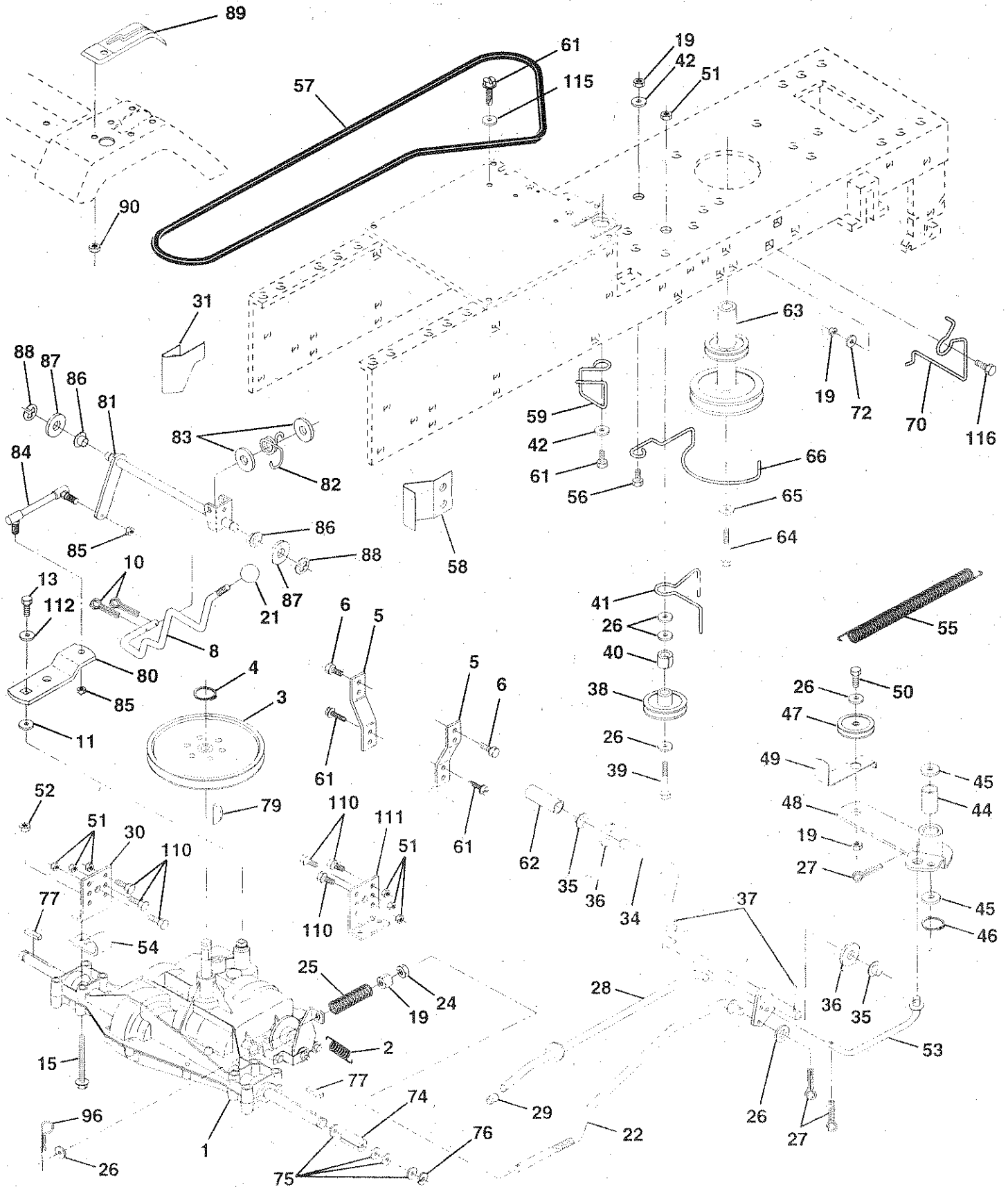
| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|--|
| 1 | 145501 | Chassis Weldment |
| 2 | 140356 | Draw Bar |
| 3 | 17490612 | Screw Thdrol. 3/8-16 x 3/4 Ty-tt |
| 6 | 145206 | Saddle |
| 8 | 126471X | Clip Insulated |
| 9 | 145203 | Dashboard |
| 10 | STD533710 | Bolt Carriage 3/8-16 x 1 |
| 11 | 145222 | Panel Dashboard LH |
| 13 | 145221 | Panel Dashboard RH |
| 14 | 17490608 | Screw Thdrol 3/8-16 x 1/2 |
| 17 | 136673X574 | Hood Asm Pnt Srs YTGT Ms 574 |
| 24 | STD523710 | Bolt Hex 3/8-16 x 1 Gr. 5 |
| 25 | 19131312 | Washer 13/32 x 13/16 x 12 Ga |
| 26 | STD541437 | Nut Lock Hex W/Washer 3/8-16 UNC |
| 28 | 136373X428 | Grille YTGT 1-Pc |
| 29 | 136374 | Lens Grille Bar |
| 30 | 140002X574 | Fender |
| 31 | 137113 | Bracket Fender |
| 33 | 145244X574 | Footrest LH |
| 34 | 145243X574 | Footrest RH |
| 35 | STD533707 | Bolt Carriage 3/8-16 x 3/4 |
| 36 | 108067X | Nut Pal |
| 38 | 139886 | Bracket Assy Pivot LH |
| 39 | 139887 | Bracket Assy Pivot RH |
| 44 | 140675 | Strip Asm Fender |
| 45 | 132257 | Bezel HeadLight |
| 47 | 105531X | Nut Push |
| 50 | 137304 | Rod Support Hood 1-Pc Zinc |
| 59 | 110436X | Bushing Snap Split |
| 64 | 150272 | Dash Lower |
| 65 | 74760532 | Bolt Hex 5/16-18 x 2 Gr. 2 |
| 66 | 140942X013 | Plate |
| 71 | 73640400 | Nut Keps Blk Hex 1/4-20 UNC |
| 73 | 17580408 | Screw Tap Tite 1/4-20 X 1/2 |
| 74 | STD541437 | Nut Crownlock 3/8-16 UNC |
| 86 | 136670X574 | Assy Panel Side RH |
| 87 | 136671X574 | Assy Panel Side LH |
| 90 | STD551025 | Washer 9/32 x 3/4 x 16 Ga. |
| 108 | STD523707 | Bolt Fin Hex 3/8-16 x 3/4 |
| 115 | 121794X | Cover Access |
| 114 | 145349 | Bracket Support Dashboard |
| 117 | 144283 | Washer Serrated |
| 118 | 145595 | Bracket Clutch Mower |
| 119 | 19092016 | Washer 9/32 X 1-1/4 X 16 Ga. |
| 120 | 137271 | Rivet Ratchet Female |
| 121 | 137269 | Washer Nylon |
| 122 | 137270 | Rivet Ratchet Male |
| 123 | 136814 | Bracket LH |
| 124 | 136813 | Bracket RH |
| 125 | 74180412 | Screw Machine Thrd 1/4-20 UNC x 3/4 |

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

DRIVE

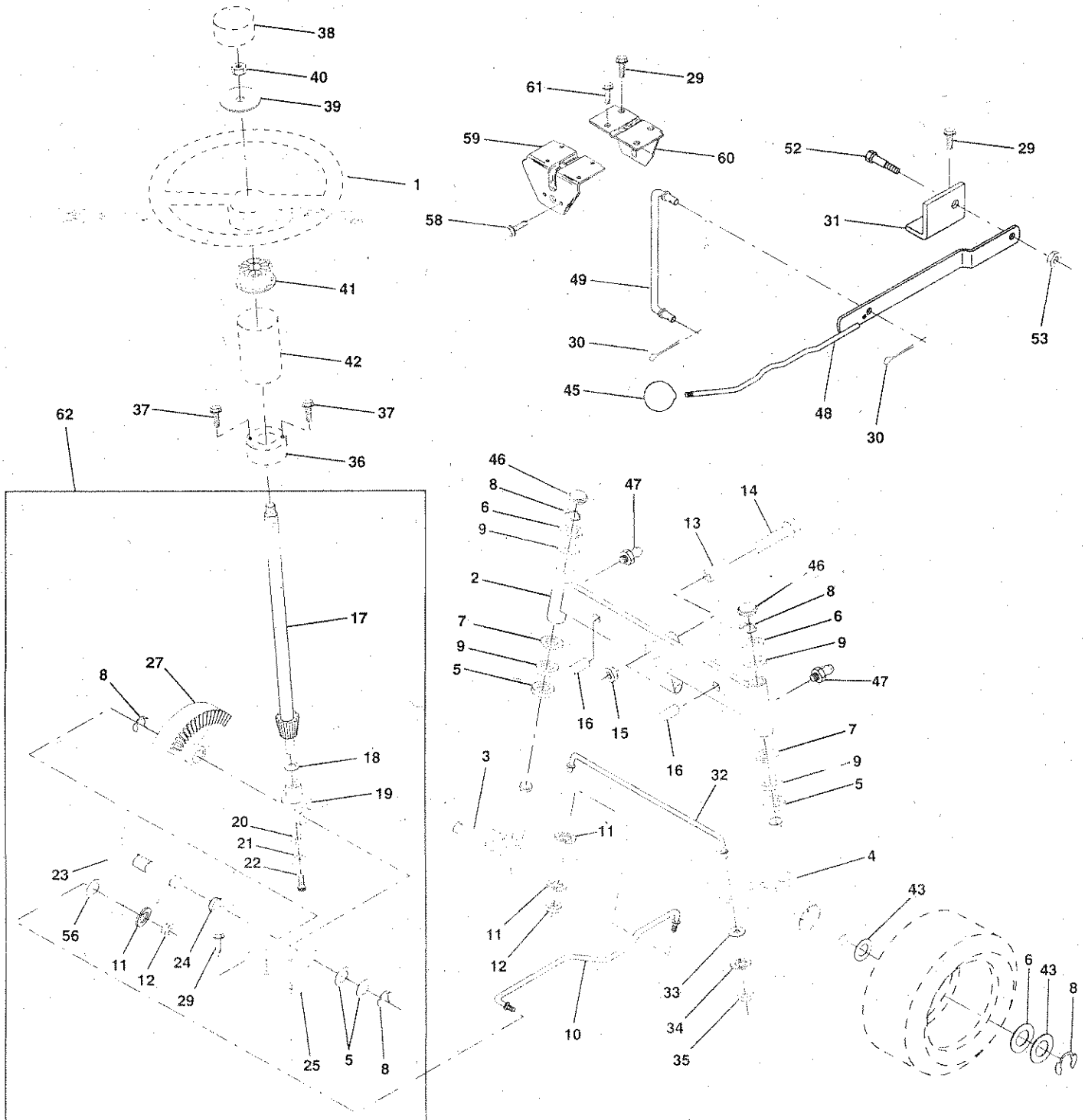
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|---------|-----------|--|
| 1 | 138788 | Transaxle, Peerless, 6 Speed, Model Number 820-016B | 53 | 105710X | Link, Clutch |
| 2 | 110422X | Spring, Brake Return | 54 | 126471X | Clip, Fuel Line |
| 3 | 121327X | Pulley, Transaxle | 55 | 105709X | Spring, Return, Clutch |
| 4 | STD582075 | Ring, Retainer | 56 | STD523712 | Bolt, Fin Hex 3/8-16 UNC x 1-1/4 |
| 5 | 123787X | Strap, Torque | 57 | 123796X | V-Belt, Drive |
| 6 | 17490512 | Screw, Hex Washer Head, Thd., Roll. 5/16-18 x 3/4 | 58 | 123792X | Keeper, Belt, Transaxle, R.H. |
| 8 | 123781X | Rod, Shifter | 59 | 140312 | Keeper, Chassis, Center Span |
| 10 | STD561210 | Pin, Cotter 1/8 x 1 | 61 | 17490612 | Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 1 |
| 11 | 105701X | Washer, Shift Plate | 62 | 8883R | Cover, Foot Pedal |
| 13 | 74550412 | Bolt 1/4-28 UNF Gr. 8 W/Patch | 63 | 140186 | Pulley, Engine |
| 15 | 74490544 | Bolt, Hex Flgnd 5/16-18 Gr. 5 | 64 | 71170764 | Bolt, Hex Head 7/16-20 x 4 Gr. 5 |
| 19 | STD541437 | Locknut 3/8-16 | 65 | STD551143 | Washer, Lock |
| 21 | 106933X | Knob | 66 | 129921 | Keeper, Belt, Engine, L.H. |
| 22 | 145340 | Rod, Brake | 70 | 134683 | Guide, Belt, Mower Drive |
| 24 | STD541237 | Nut, Hex, Jam 3/8-16 UNC | 72 | 19132012 | Washer 13/32 x 1-1/4 x 12 Ga. |
| 25 | 126909X | Spring, Brake Rod | 74 | 108097X | Spacer, Split |
| 26 | STD551037 | Washer 13/32 x 13/16 x 16 Ga. | 75 | 123800X | Washer 1-1/32 x 1-5/8 x 16 |
| 27 | STD561210 | Pin, Cotter 1/8 x 3/4 | 76 | 12000053 | E-Ring |
| 28 | 145204 | Rod, Parking Brake | 77 | 9396E | Key, Square 1/4 x 2 |
| 29 | 124236X | Cap Brake Parking | 79 | STD580025 | Key, Woodruff #9 |
| 30 | 123780X | Bracket, Transaxle, L.H. | 80 | 123794X | Shift Arm |
| 31 | 123791X | Keeper, Belt, Transaxle, L.H. | 81 | 123772X | Shaft Assembly, Shifter |
| 34 | 149001 | Shaft, Foot Pedal | 82 | 123782X | Spring, Torsion |
| 35 | 120183X | Bearing, Nylon | 83 | 19171216 | Washer 17/32 x 3/4 x 16 Ga. |
| 36 | STD551062 | Washer 21/32 x 1 x 16 Gauge | 84 | 123793X | Rod Link Shift Adm. Non/Stretch |
| 37 | STD571810 | Pin, Roll 3/16 x 1 | 85 | 150360 | Nut, Lock Center 1/4-28 Fnthd |
| 38 | 123674X | Idler, Flat | 86 | 71208 | Bushing, Steering Rod |
| 39 | STD523727 | Bolt, Hex Head 3/8-16 x 2-3/4 | 87 | 19212016 | Washer 21/32 x 1-1/4 x 16 Ga. |
| 40 | 4470J | Spacer | 88 | 12000008 | Ring, Klip |
| 41 | 109070X | Keeper, Belt | 89 | 139992 | Console 6sp GTV |
| 42 | 19131312 | Washer 13/32 x 13/16 x 12 Ga. | 90 | 124346X | Nut Self-Thd Wash-Hd 1/4 Zinc |
| 44 | 105706X | Bearing | 96 | STD624003 | Retainer Spring |
| 45 | 110812X | Washer, Hardened | 110 | STD523707 | Bolt, Hex Head 3/8-16 x 3/4 |
| 46 | 12000039 | Ring, Clip | 111 | 123776X | Bracket, Transaxle, RH. |
| 47 | 127783 | Pulley, Idler, V-Groove | 112 | STD551025 | Washer 9/32 x 3/4 x 16 Ga. |
| 48 | 123789X | Bellcrank Asm. Clutch | 115 | 19132203 | Washer 13/32 x 1-3/8 x 3 Ga. |
| 49 | 123205X | Retainer, Belt | 116 | 72110610 | Bolt Rdhd Sq. Neck 3/8-16 x 1-1/4 |
| 50 | STD523715 | Bolt, Hex Head 3/8-16 X 1-1/2 | | | |
| 51 | STD541437 | Nut, Crownlock 3/8-16 | | | |
| 52 | STD541431 | Nut, Crownlock 5/16-18 | | | |

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

STEERING ASSEMBLY



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

STEERING ASSEMBLY

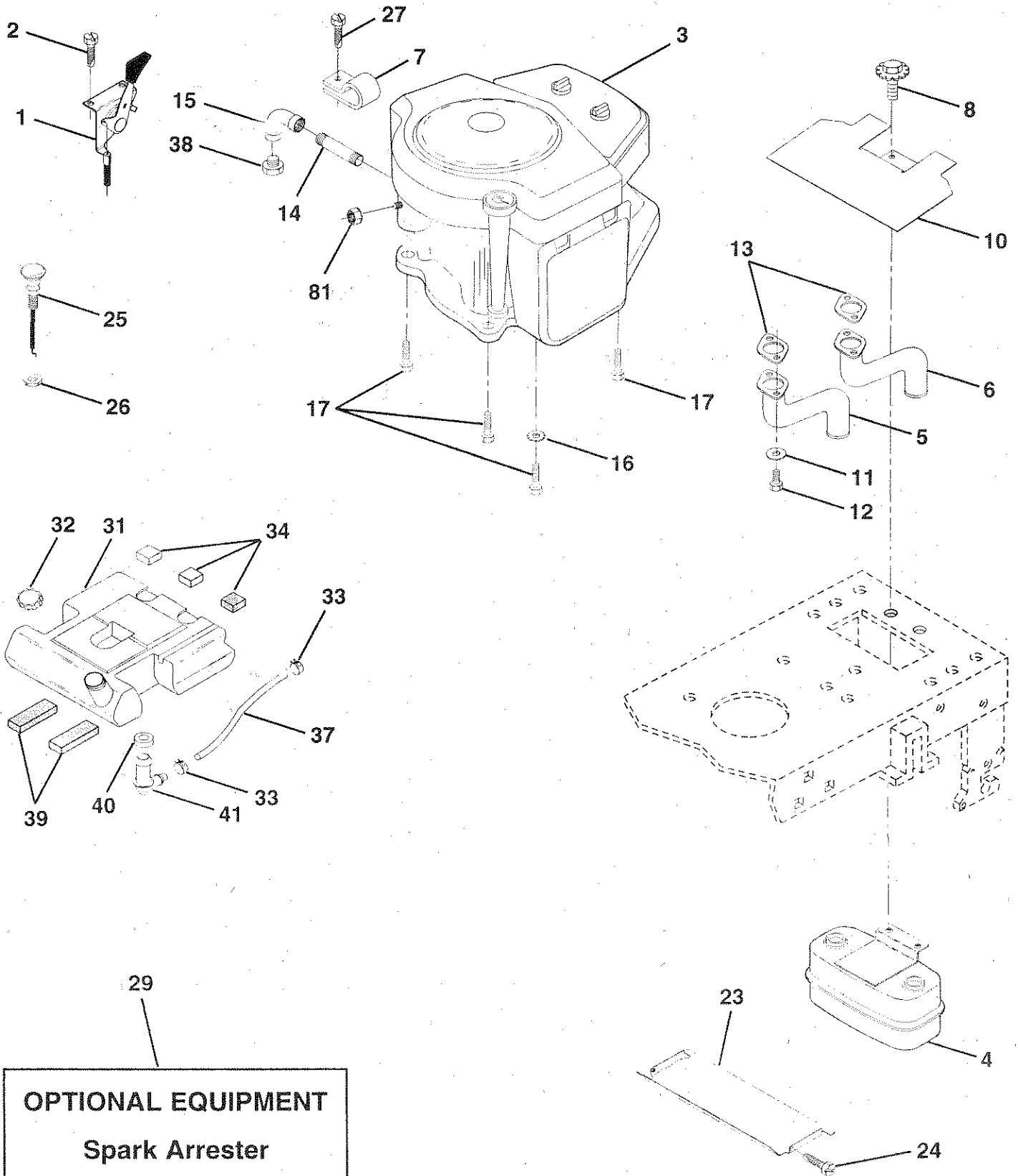
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-------------------------------|---------|-----------|--------------------------------|
| 1 | 139768 | Wheel Steering Ayp/kelch Blk | 31 | 138171 | End St. Pvt Ma Cl Lvr |
| 2 | 142033 | Axle Asm Fr LT | 32 | 139929 | Tie Rod |
| 3 | 135227 | Spindle Asm LH | 33 | 19111216 | Washer 11/32 x 3/4 x 16 Ga. |
| 4 | 135228 | Spindle Asm RH | 34 | STD551131 | Washer Lock Hvy Hlcl Spr 5/16 |
| 5 | 6266H | Bearing Race Thrust Harden | 35 | STD541531 | Locknut 5/16-24 UNF |
| 6 | 121748X | Washer 25/32 X 1-5/8 X 16ga | 36 | 145207 | Bushing Strg Blk 3/4 angle |
| 7 | 19272016 | Washer 27/32 X 1-1/4 X 16 Ga | 37 | 17541008 | Screw Slip #10-24 x 1/2 |
| 8 | 12000029 | Ring Klip #t5304-75 | 38 | 139769 | Cap Wheel Steer |
| 9 | 3366R | Bearing Col Strg Blk | 39 | 100712K | Washer 53 X 2 25 X 160 Zinc |
| 10 | 130468 | Link Drag Sol Ball Jt 20 064 | 40 | STD541350 | Nut Hex Jam Toplock 1/2-20 Unf |
| 11 | STD551137 | Washer Lock Hvy Hlcl Spr 3/8 | 41 | 100711L | Adapter Wheel Strg 758/ 753id |
| 12 | 73610600 | Nut Fin Hex 3/8-24 Unf | 42 | 140216 | Column Steering |
| 13 | 110438X | Spacer Bearing Axle Front | 43 | 121749X | Washer 25/32 X 1 1/4 X 16 Ga |
| 14 | 74761060 | BOLT Hex 5/8-11 Unc X 3-3/4 | 45 | 149846 | Knob Custom Oval |
| 15 | 73901000 | Nut Lock Flange 5/8-11 Unc | 46 | 121232X | Cap Spindle Fr Top Blk |
| 16 | 132624 | Pin Axle 5/8 X 1.55/1 54 Lg | 47 | 6855M | Fitting Grease |
| 17 | 128758 | Shaft Asm Strg | 48 | 146841 | Lever Asm. Clutch Mower |
| 18 | 57079 | Washer Thrust 515x 750x 033 | 49 | 131291 | Link Clutch W/Nibs |
| 19 | 124035X | Support Shaft | 52 | 106451X | Bolt Shoulder |
| 20 | 126684X | Washer Shim 1/4 X 5/8 X 062 | 53 | STD541437 | Nut, Crownlock 3/8-16 UNC |
| 21 | STD551125 | Washer Lock Hvy Helical 1/4 | 56 | 19131210 | Washer 13/32 x 3/4 x 10 Ga. |
| 22 | 71100410 | Screw Cap Sckt Hd Phos & Oil | 58 | 17490508 | Screw Thdrol 5/16-18 x 1/2 TT |
| 23 | 127501 | Shaft Asm Pittman | 59 | 105663X | Support Saddle Rear 10 Ga. |
| 24 | 109816X | Nyliner Snap In | 60 | 105664X | Support Saddle Front |
| 25 | 124036X | Bracket Steering | 61 | 122819X | Screw Special 3/8-16 x 3/4 Ty |
| 27 | 136874 | Gear Sector 22 Teeth | 62 | 149682 | Kit Steer Asm. 18.31 x 3/4 |
| 29 | 17490612 | Screw Thdrol 3/8-16x3/4 Ty-tt | | | |
| 30 | STD561210 | Pin Cotter 1/8 x 3/4 | | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ENGINE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ENGINE

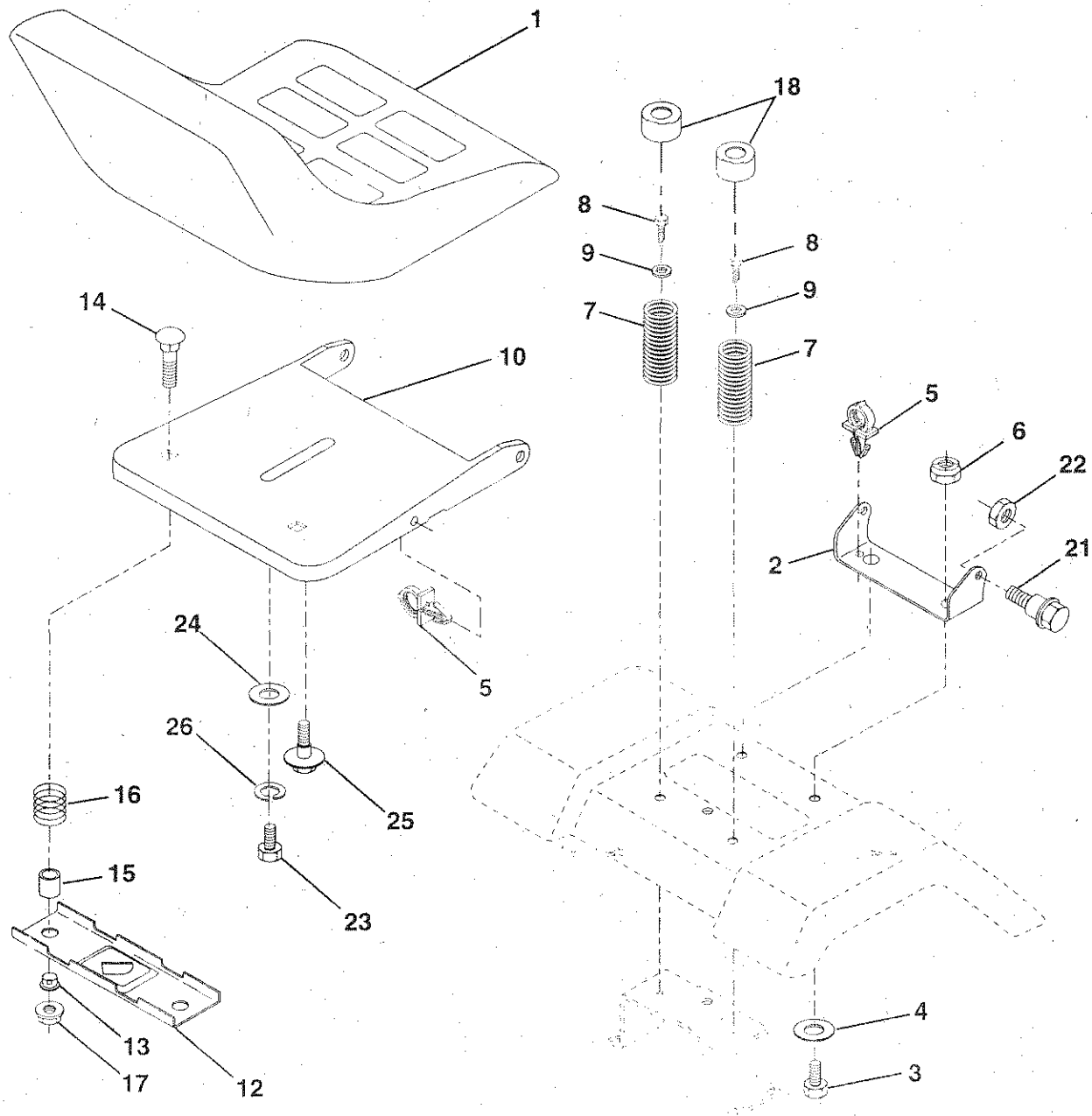
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|--|
| 1 | 132755 | Control Throt RH Blk Pdl 36 60 |
| 2 | 17720410 | Screw Hex Thd Cut 1/4-20x5/8 T |
| 3 | 150469 | Engine B&S, 20 HP, Model No. 460777, Type Number 1297-01 |
| 4 | 149723 | Muffler Asm Twin Lo-Tone |
| 5 | 144068 | Exhaust Asm RH B&S 18 HP Vert |
| 6 | 144069 | Exhaust Asm LH B&S 18 HP Vert |
| 7 | 138129 | Clamp Tube Double Engine |
| 8 | 150716 | Bolt 5/16-18 UNC x 3/4 w/ Sems |
| 10 | 145552 | Shield Heat |
| 11 | STD551125 | Washer Lock Hvy Helical 1/4 |
| 12 | STD522507 | Bolt Fin Hex 1/4-20unc X 75 |
| 13 | 272250 | Gasket Muffler #272250 |
| 14 | 13280336 | Nipple Pipe 4-1/2" |
| 15 | 13200300 | Elbow Std 90 Degree 3/8-18 Npt |
| 16 | STD551237 | Washer Lock Ext Tooth 3/8 |
| 17 | 17490624 | Screw Thdrol 3/8-16 X 1-1/2 Tt |
| 23 | 128953 | Shield Heat Browning |
| 24 | STD601005 | Screw Tap Hex #10-24 UNC x 1/2 |
| 25 | 138672 | Control Choke 51.00 Blk W/bend |
| 26 | 73920600 | Nut Keps 3/8-24 Unf |
| 27 | 17541008 | Screw |
| 29 | 137180 | Kit Spark Arrestor |
| 31 | 151346 | Tank Fuel |
| 32 | 151296 | Cap Asm Fuel w/Gauge Vented |
| 33 | 123487X | Clamp Hose Blk |
| 34 | 106082X | Pad Spacer |
| 37 | 8543R | Line Fuel 54" |
| 38 | ----- | Plug Oil Drain (Order From Engine Manufacturer) |
| 39 | 109227X | Pad Idler |
| 40 | 3645J | Bushing |
| 41 | 139277 | Stem Fuel Tank |
| 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 917.251470

SEAT ASSEMBLY



| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|--------------------------------|
| 1 | 140122 | Seat |
| 2 | 140551 | Bracket Pnt Pivot Seat (blk) |
| 5 | 145006 | Clip Push-In |
| 6 | STD541437 | Nut Lock Hex W/Ins 3/8 -16 UNC |
| 7 | 124181X | Spring Seat Cprsn 2 250 Blk Zi |
| 10 | 140552 | Pan Pnt Seat (blk) |
| 12 | 121246X | Bracket Pnt Mounting Switch |
| 13 | 121248X | Bushing Snap Blk Nyl 50 Id |
| 14 | 72050411 | Bolt Rdhd Sht Nk 1/4-20x1-3/8 |
| 15 | 134300 | Spacer Split 28 X 96 |
| 16 | 121250X | Spring Cprsn |
| 17 | 123976X | Nut Lock 1/4 Lge Flg Gr 5 Zinc |

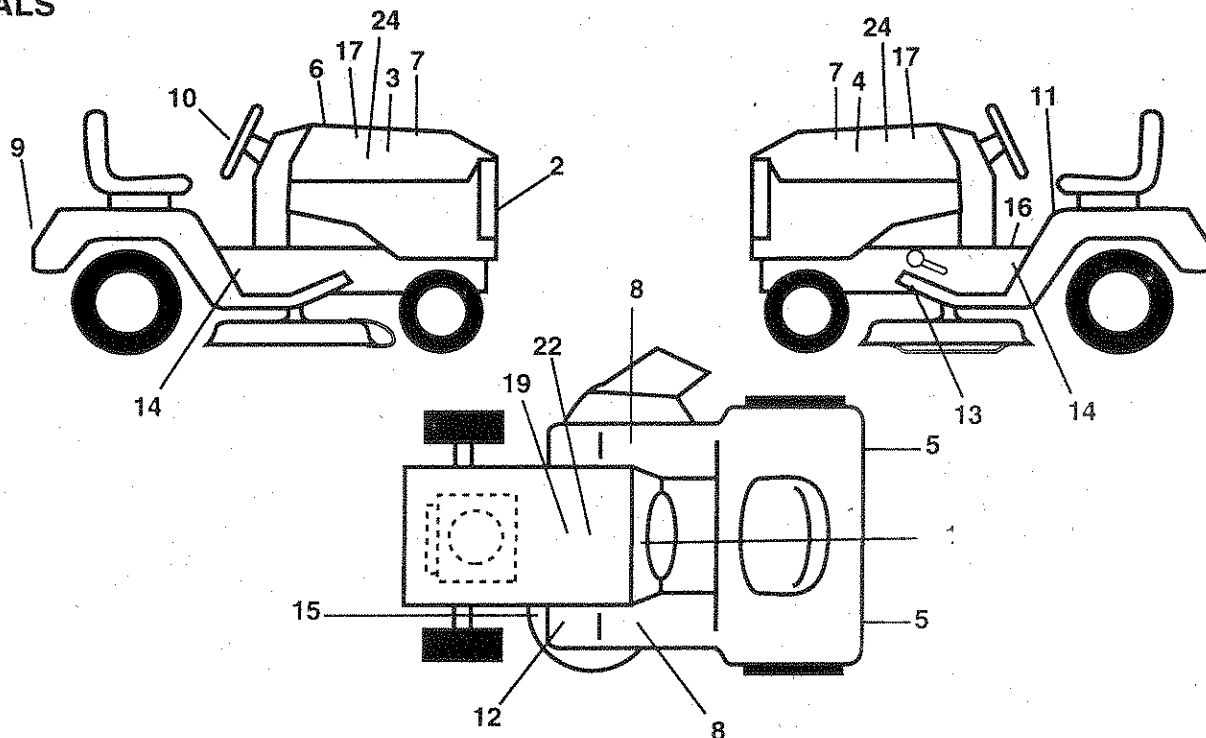
| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-----------------------------------|
| 18 | 124238X | Cap Spring Seat |
| 21 | 153236 | Bolt Shoulder 5/16-18 Unc Blkz-2A |
| 22 | STD541431 | Nut Lock Hex W/Ins 5/16-18 |
| 23 | 74780814 | Bolt Fin Hex 1/2-13 X 7/8 Gr 5 |
| 24 | 19171912 | Washer 17/32 X 1-3/16 X 12 Ga |
| 25 | 127018X | Bolt Shoulder 5/16-18 X 62 |
| 26 | STD551150 | Washer Lock Hvy Hicl Spr 1/2 |
| 27 | 17490608 | Screw Thdrol. 3/8-16 x 1/2 |
| 28 | 150176 | Bolt 5/16 -18 UNC X 3/4 W/Sems |

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

REPAIR PARTS

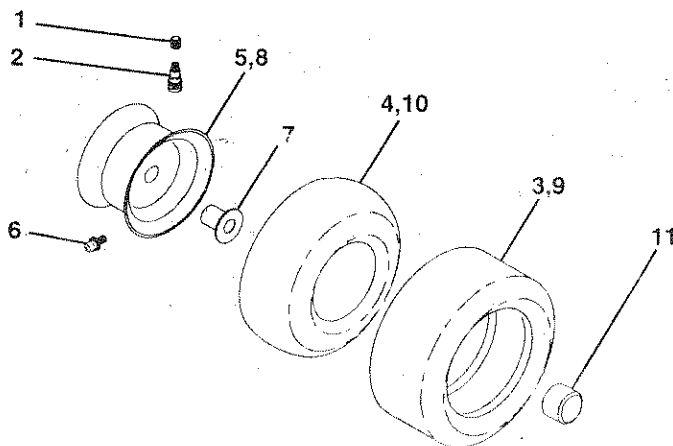
TRACTOR - - MODEL NUMBER 917.251470

DECALS



| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|------------------------------------|---------|----------|---------------------------------|
| 1 | 138955 | Decal, Dash Instruction Operat Eng | 13 | 146046 | Decal, V-belt Dr Sch Tractor E |
| 2 | 151696 | Decal, Grille Lawn Tractor Dov | 14 | 151695 | Decal, Chassis 6 Sp 44" |
| 3 | 151693 | Decal, Hood Rh Craftsman | 15 | 139346 | Decal, Mower Drive Schematic |
| 4 | 151694 | Decal, Hood Lh Craftsman | 16 | 140837 | Decal, Saddle Brake Parking |
| 5 | 106202X | Reflector, Taillight Red/ Amber | 17 | 151795 | Decal, Insert, Hood |
| 6 | 133644 | Decal, Maint Customer Sears Dom | 19 | 138047 | Decal, Battery Diehard Sears |
| 7 | 151799 | Decal, Panel Side B&S | 22 | 149516 | Decal, Battery |
| 8 | 145245 | Pad, Footrest | 24 | 138048 | Decal, Panel Side Diehard White |
| 9 | 128314 | Decal, Fender Craftsman White | -- | 138311 | Decal, Lift Handle |
| 10 | 150333 | Decal, Cap CNSMR Help Line SRS | -- | 145247 | Fastener, Pop-In Footrest |
| 11 | 137537 | Decal, Caution English/Spanish | -- | 154943 | Manual, Owner's (English) |
| 12 | 4900J | Decal, Clutch/brake English | -- | 152311 | Manual, Owner's (Spanish) |

WHEELS & TIRES



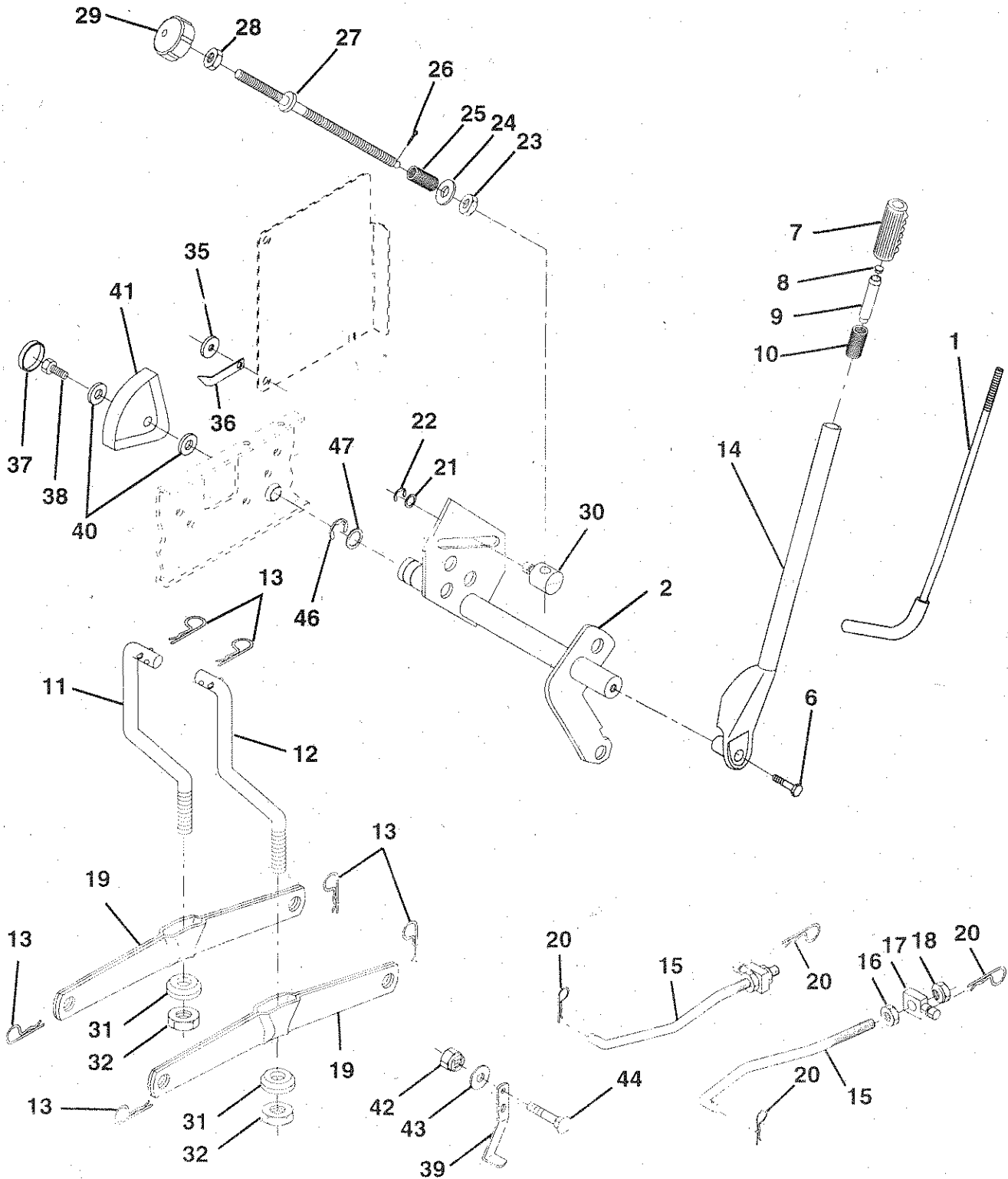
| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|--------------------------------|
| 1 | 59192 | Cap Value Tire |
| 2 | 65139 | Stem Value |
| 3 | 106222X | Tire F Ts 15 X 6 0 - 6 Service |
| 4 | 59904 | Tube Inner Front #35060 |
| 5 | 106732X427 | Rim Asm 6"front White Service |
| 6 | 278H | Fitting Grease |
| 7 | 9040H | Bearing Flange |
| 8 | 124074X427 | Rim Asm 12"rear White Service |
| 9 | 124106X | Tire R Ts 23 x 8.5-12 Service |
| 10 | 7152J | Tube Rear 9 5 X 8 Service |
| 11 | 104757X | Cap Axle Blk 1 50 X 1 00 |
| -- | 144334 | Sealant, Tire (10 oz. Tube) |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

SEAT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

MOWER LIFT

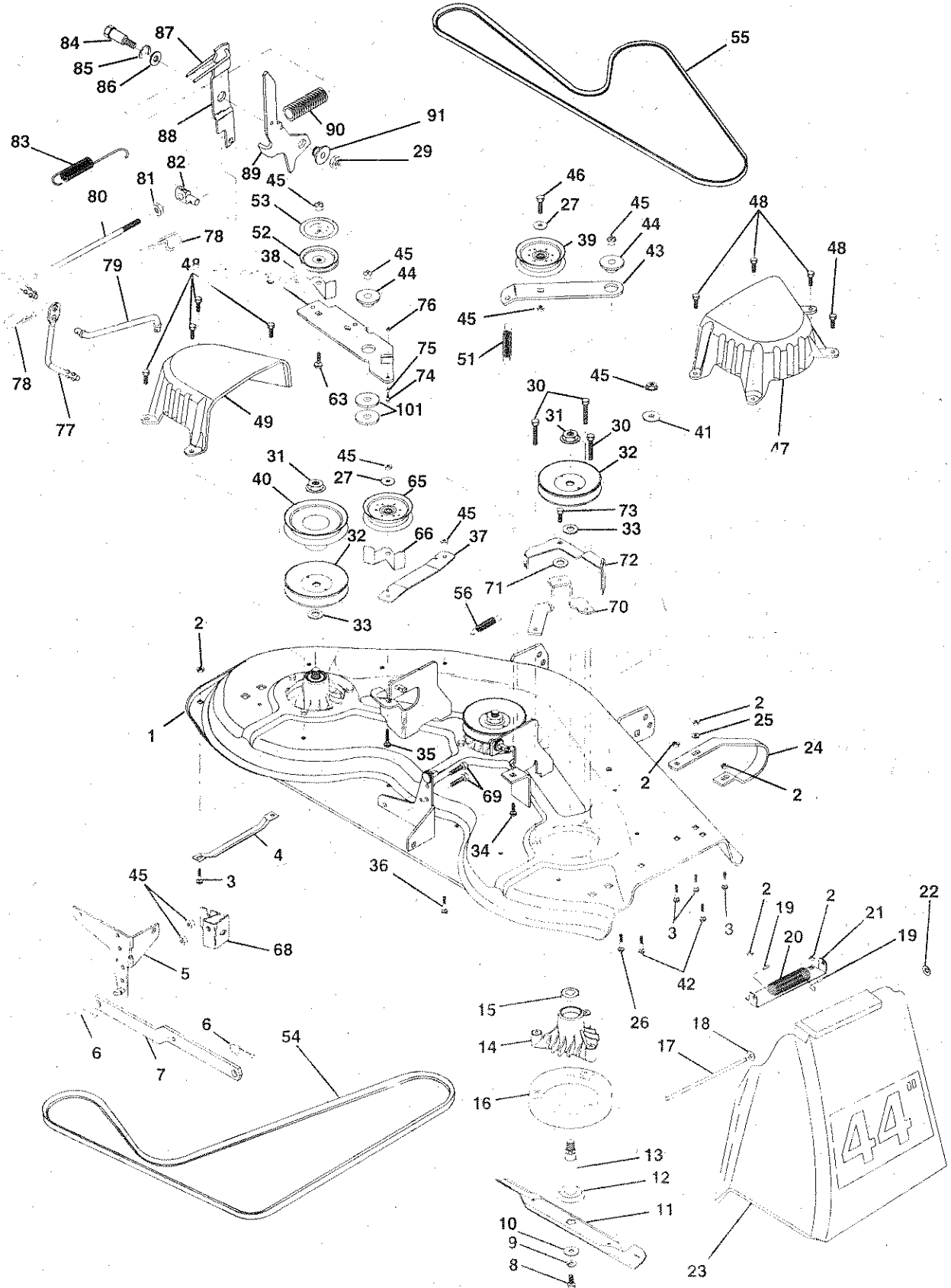
| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|----------------------------------|
| 1 | 121006X | Rod, Lever |
| 2 | 140673 | Shaft, Lift |
| 6 | 74780624 | Bolt Hex 3/8-16 x 1-1/2 |
| 7 | 125631X | Grip, Handle |
| 8 | 122365X | Button, Plunger |
| 9 | 122364X | Plunger, Lever |
| 10 | 2876H | Spring |
| 11 | 145537 | Link, Lift, LH |
| 12 | 145536 | Link, Lift, RH |
| 13 | STD624008 | Retainer, Spring |
| 14 | 121002X | Lever, Lift (Includes Key No. 1) |
| 15 | 127218 | Link Front |
| 16 | 73350800 | Nut, Hex, Jam 1/3-13 UNC |
| 17 | 130171 | Trunnion, Blk Zinc |
| 18 | STD541450 | Nut, Lock W/Wsh 1/2-13 |
| 19 | 139868 | Arm, Suspension |
| 20 | STD624008 | Retainer Spring |
| 21 | 19151216 | Washer 15/32 x 3/4 x 16 Gauge |
| 22 | 12000037 | Klip Ring |
| 23 | 110807X | Nut, Hex, Special |
| 24 | STD551037 | Washer 13/32 x 5/8 x 16 Gauge |
| 25 | 137150 | Spring |
| 26 | STD560907 | Pin, Cotter 3/32 x 1/2 |
| 27 | 137167 | Rod, Adjust, Lift |
| 28 | STD541237 | Nut, Hex, Jam 3/8-16 |
| 29 | 138057 | Knob, Infinite Height Adjustment |
| 30 | 110810X | Trunnion |
| 31 | 140302 | Bearing Pvt Lift Spherical |
| 32 | 73540600 | Nut, Crownlock 3/8-24 |
| 35 | 120529X | Washer Nylon .44 x .75 x .032 |
| 36 | 123933X505 | Pointer Pnt Height Ind |
| 37 | 123935X | Plug Hole Blk |
| 38 | 17490512 | Screw, Thdrol 5/16-18 x 3/4 |
| 39 | 142992 | Stop Over Center |
| 40 | 19112410 | Washer 11/32 x 1-1/2 x 10 Ga. |
| 41 | 123934X | Scale Ind. Height Blk |
| 42 | STD541437 | Nut Crownlock 3/8-16 UNC |
| 43 | 19131612 | Washer 13/32 x 1 x 12 Ga. |
| 44 | STD533710 | Bolt Carriage 3/8-16 x 1.00 |
| 46 | 12000022 | E-Ring |
| 47 | 19292016 | Washer 29/32 x 1-1/4 x 16 Gauge |

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

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

MOWER DECK



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

MOWER DECK

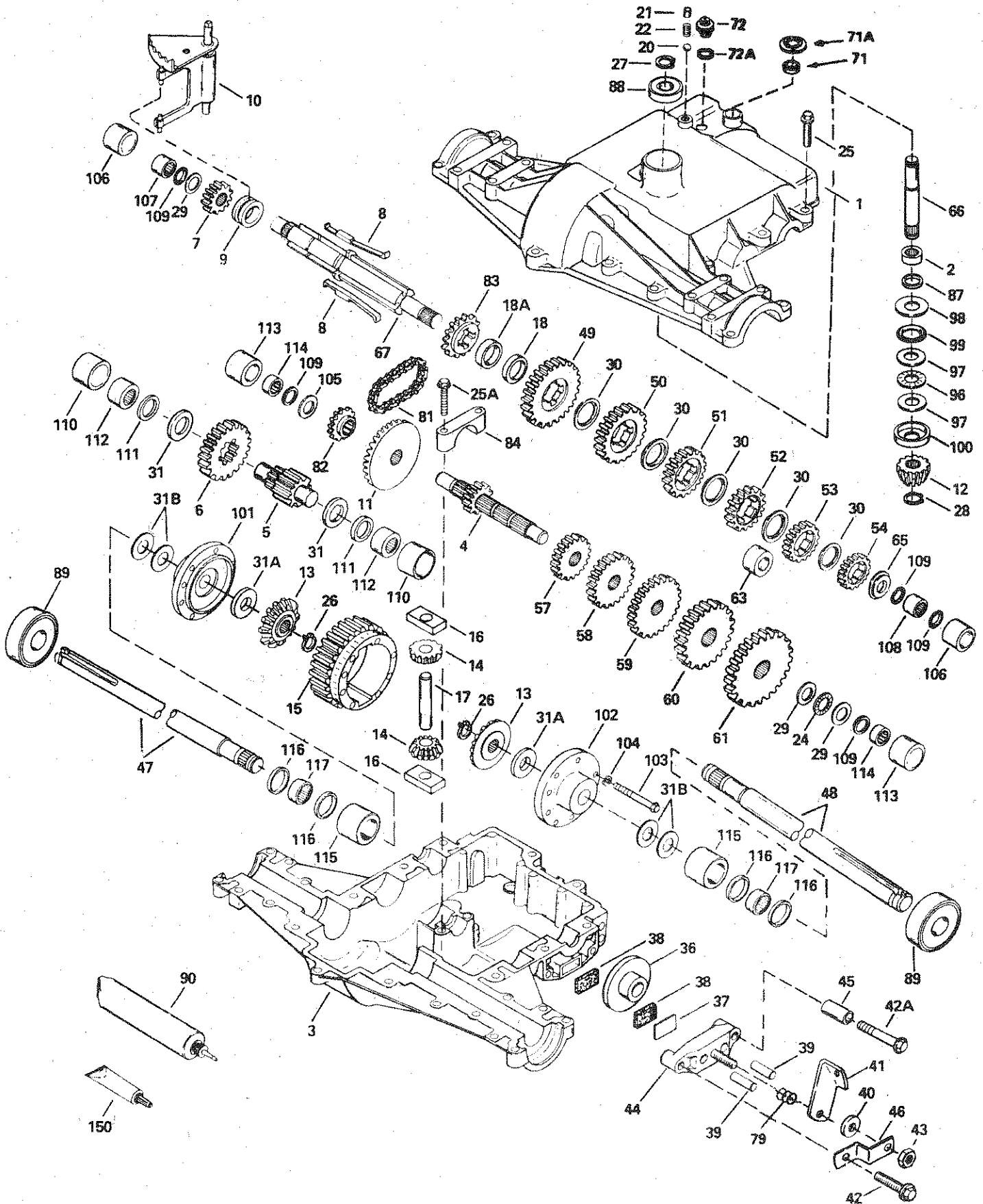
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|---------|-----------|--|
| 1 | 140579 | Deck Asm., Mower 44" Vented | 47 | 137200 | Cover, Mandrel RH |
| 2 | STD541431 | Nut Crownlock 5/16-18 | 48 | 137729 | Screw, Thd Roll 1/4-20 x 5/8 |
| 3 | STD533107 | Bolt, Carriage 5/16-18 x 3/4 | 49 | 136574 | Cover, Mandrel LH |
| 4 | 7631J | Runner, Mower LH | 50 | 137272 | Arm, Idler Primary |
| 5 | 138457 | Bracket Asm., Sway Bar | 51 | 137273 | Spring, Secondary |
| 6 | STD624008 | Retainer, Spring | 52 | 139245 | Pulley, Idler V Groove |
| 7 | 130832 | Arm Suspension, Rear | 53 | 137789 | Shield, Idler |
| 8 | 850857 | Bolt 3/8-24 x 1.25 Gr. 8 Patched | 54 | 142686 | V-Belt, Mower Primary |
| 9 | STD551137 | Washer, Lock Hvy 3/8 Unplated | 55 | 131290 | V-Belt, Mower Secondary |
| 10 | 140296 | Washer, Hard Blade Mower Vented | 56 | 126910X | Spring, Extension |
| 11 | 130652 | Blade (3 Required) | 62 | 133943 | Washer Hardened |
| 12 | 129895 | Bearing, Ball #6204 (Mandrel) | 63 | 72110612 | Bolt Carriage 3/8-16 x 1-1/2 |
| 13 | 137553 | Shaft Asm., W/Lower Brg (Includes Key No. 12) | 65 | 151831 | Pulley Idler Flat Mower |
| 14 | 137152 | Housing, Mandrel 44" Vent | 66 | 139622 | Keeper Belt Idler 50 Vent Dr. |
| 15 | 110485X | Bearing, Ball Mandrel | 68 | 140364 | Bracket Pvt 44" Mech. |
| 16 | 140329 | Stripper, Mower Vented | 69 | STD523707 | Bolt Fin Hex 3/8-16 UNC x 3/4 |
| 17 | 106735X | Rod, Hinge | 70 | 140361 | Bracket Support Brake 44" Mech. |
| 18 | 19111016 | Washer 11/32 x 5/8 x 16 Ga. | 71 | 133944 | Washer Hardened |
| 19 | 105304X | Cap, Sleeve | 72 | 140367 | Arm Asm Brake |
| 20 | 123713X | Spring, Torsion Deflector | 73 | 139888 | Bolt Shld 5/16-18 Type TT |
| 21 | 137607 | Bracket, Deflector | 74 | 133940 | Roller Asm Cam Follower |
| 22 | 110452X | Nut, Push | 75 | 131340 | Bolt Shldr 10-24 Zinc Gr. 5 42" |
| 23 | 109785X | Spine, Deflector Mower | 76 | 69180 | Nut Lock #10-24 UNC |
| 24 | 136321 | Runner, RH | 77 | 133551 | Rod Pivot W/Nibs |
| 25 | 19111216 | Washer 11/32 x 3/4 x 16 Ga. | 78 | STD624003 | Retainer Spring |
| 26 | STD533707 | Bolt RDHD Sht SQNK 3/8-16 x 3/4 | 79 | 140363 | Rod Clutch Secondary 44" Mech |
| 27 | STD551037 | Washer 13/32 x 13/16 x 16 Ga. | 80 | 143354 | Rod Clutch Primary 44" Mech |
| 29 | STD541437 | Nut Crownlock 3/8-16 UNC | 81 | STD541237 | Nut Hex Jam 3/8-16 UNC |
| 30 | 138776 | Screw, Thdrol. Hex Head | 82 | 142028 | Trunnion Adj '94 |
| 31 | 137266 | Nut, Flg Top Lock Cntr 9/16 | 83 | 146927 | Spring Return |
| 32 | 153535 | Pulley, Mandrel | 84 | 128903 | Bolt Shoulder 3/8-16 UNC |
| 33 | 129963 | Washer, Spacer Mower Vented | 85 | 12000029 | Ring Klip |
| 34 | STD533712 | Bolt, Carriage 3/8-16 x 1-1/4 | 86 | 121748X | Washer 25/32 x 1-5/8 x 16 Ga. |
| 35 | STD533720 | Bolt, Carriage 3/8-16 x 2 | 87 | 127845 | Keeper Spring |
| 36 | STD533710 | Bolt, Carriage 3/8-16 x 1 Gr. 5 | 88 | 127847 | Arm Clutch Secondary |
| 37 | 137166 | Stiffener, Arm Idler | 89 | 140333 | Arm Clutch Primary |
| 38 | 140365 | Keeper, Belt Idler | 90 | 128759 | Spring Clutch |
| 39 | 131494 | Pulley, Idler Flat | 91 | 127498 | Bushing |
| 40 | 136572 | Pulley, Driven | 101 | 106513X | Washer Wear 16 Ga. Harden |
| 41 | STD551050 | Washer 17/32 x 1 x 16 Ga. | -- | 143419 | Complete Mower (Standard Deck - Order separately all gauge wheel components) |
| 42 | STD533107 | Bolt, Carriage 5/16-18 Unc x 3/4 | -- | 143651 | Mandrel Asm Service (Includes 8-10, 12-15, 31 and 33) |
| 43 | 136460 | Arm, Idler Secondary | | | |
| 44 | 122052X | Spacer, Retainer | | | |
| 45 | STD541437 | Nut, Crownlock 3/8-16 Unc | | | |
| 46 | 74760628 | Bolt, Fin Hex 3/8-16 Unc x 1-3/4 | | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

PEERLESS TRANSAXLE - MODEL NUMBER 820-016B



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

PEERLESS TRANSAXLE - MODEL NUMBER 820-016B

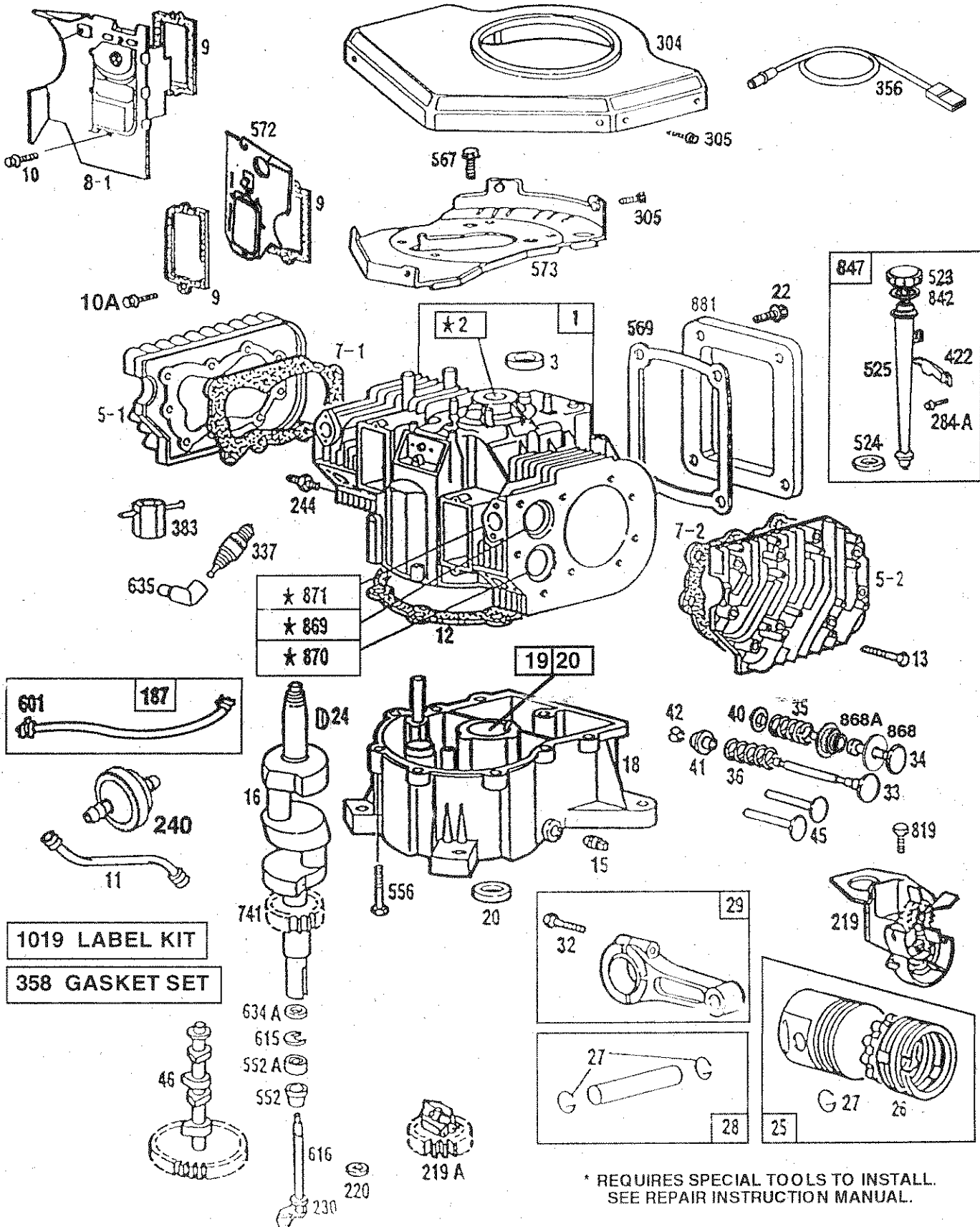
| REF PART NO. NO. | DESCRIPTION | REF PART NO. NO. | DESCRIPTION |
|------------------|-------------------------------------|------------------|---|
| -- 794513 | Transaxle, Complete | 53 778203A | Spur Gear, Steel 22 Teeth (5-) |
| 1 772098A | Transaxle Cover | 54 778273 | Spur Gear, Steel, 19 Teeth (6-) |
| 2 780155 | Needle Bearing | 57 778199 | Spur Gear, Steel, 15 Teeth (2-) |
| 3 770088 | Transaxle Case | 58 778200 | Spur Gear, Steel, 20 Teeth (3-) |
| 4 776291 | Countershaft and 1- Gear, 9 Teeth | 59 778201 | Spur Gear, Steel, 25 Teeth (4-) |
| 5 776275 | Output Shaft | 60 778202 | Spur Gear, Steel, 28 Teeth (5-) |
| 6 778247 | Output Gear, Steel, 35 Teeth | 61 778208 | Spur Gear, Steel, 31 Teeth (6-) |
| 7 778253 | Spur Gear, Steel, 15 Teeth | 65 780139 | Washer |
| 8 792138 | Shift Key | 66 776274 | Input Shaft |
| 9 784216 | Shift Collar | 67 776313 | Shifter and Brake Shaft |
| 10 784342 | Shift Fork | 71 788069 | Square Cut Ring |
| 11 778246 | Bevel Gear, Steel, 33 Teeth | 71A 792145 | Pushnut |
| 12 778245 | Input Bevel Pinion, Steel, 13 Teeth | 72 792165 | Threaded Plug 9/16-18 |
| 13 778198 | Bevel Gear, Steel, 16 Teeth | 72A 788091 | "O" Ring |
| 14 778197 | Bevel Pinion, Steel, 10 Teeth | 79 792144 | Spring |
| 15 778248 | Ring Gear | 81 786081 | Roller Chain (Number 41 Chain, 24 Links) |
| 16 786027 | Drive Block | 82 786082 | Sprocket, 9 Teeth (Reverse) |
| 17 786019 | Drive Pin | 83 786123 | Sprocket, 18 Teeth (Reverse) |
| 18 786121 | Neutral Spacer, .350/.340 Thick | 84 786131 | Bearing Cap |
| 18A 786122 | Neutral Spacer, .276/.268 Thick | 87 788042 | Oil Seal 3/4 |
| 20 792077 | Steel Ball, 5/16" Diameter | 88 780119 | Ball Bearing |
| 21 792078 | Set Screw, 3/8-16 x 3/8" | 89 780050 | Ball Bearing |
| 22 792079 | Spring | 90 788067B | Grease, Bentonite, 32 Ounce Bottle |
| 24 780071 | Thrust Bearing | 96 780084 | Thrust Bearing |
| 25 792129 | Screw 5/16-18 x 1-1/4" | 97 780051 | Washer |
| 25A 792073 | Screw 1/4-20 x 1-1/4" | 98 780165 | Washer |
| 26 792018 | Retaining Ring | 99 788077 | "O" Ring |
| 27 792018 | Retaining Ring | 100 780166 | Cupped Washer |
| 28 788040 | Retaining Ring | 101 774833 | Differential Carrier |
| 29 780072 | Washer | 102 774834 | Differential Carrier |
| 30 780108 | Washer | 103 792020 | Screw 1/4-20 x 2-1/4 |
| 31 780128 | Washer | 104 792006 | Lock Washer |
| 31A 780107 | Washer | 105 780152 | Washer |
| 31B 780042 | Washer | 106 786144 | Sleeve |
| 36 790043 | Brake Disk | 107 780152 | Needle Bearing |
| 37 790007 | Brake Pad Plate | 108 780150 | Needle Bearing |
| 38 799021 | Brake Pad (Package of 2) | 109 792001 | "O" Ring |
| 39 786026 | Dowel Pin | 110 786142 | Sleeve |
| 40 792076A | Washer | 111 788071 | Square Cut Ring |
| 41 790047 | Brake Lever | 112 780168 | Needle Bearing |
| 42 792073 | Screw 1/4-20 x 1-1/4 | 113 786143 | Sleeve |
| 42A 792085A | Screw 1/4-20 x 2-1/4 | 114 780151 | Needle Bearing |
| 43 792075 | Locknut 5/16-24 | 115 786145 | Sleeve |
| 44 790025 | Brake Pad Holder | 116 788070 | Square Cut Ring |
| 45 786067 | Spacer | 117 780031 | Needle Bearing |
| 46 786086 | Brake Lever Bracket | 150 510334 | Gasket Eliminator (Loctite Number 515) |
| 47 774832 | Axle, 12-5/16" Long | | |
| 48 774831 | Axle, 16-3/16" Long | | |
| 49 778216A | Spur Gear, Steel, 41 Teeth (1-) | | |
| 50 778206A | Spur Gear, Steel, 35 Teeth (2-) | | |
| 51 778205A | Spur Gear, Steel, 30 Teeth (3-) | | |
| 52 778204A | Spur Gear, Steel, 25 Teeth (4-) | | |

Parts must be ordered from Tecumseh Products Co.
NOTE: All component dimensions given in U.S. inches
 1 inch = 25.4 mm

REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

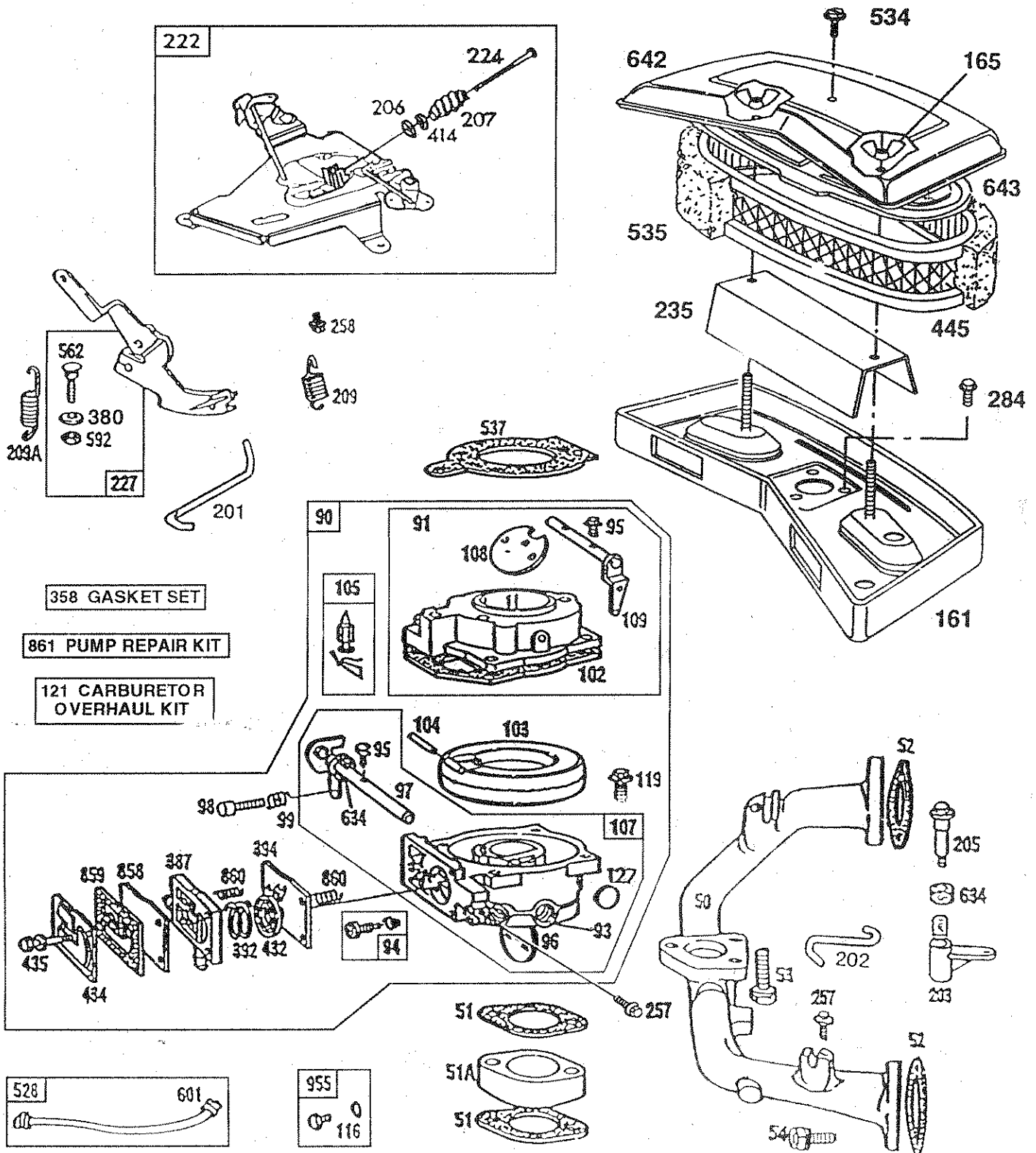
ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.251470

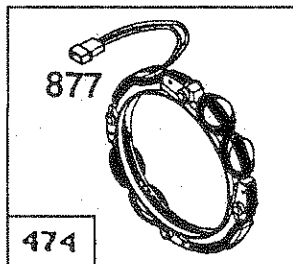
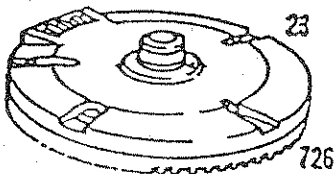
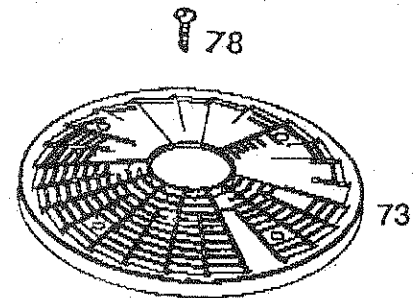
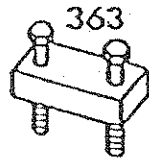
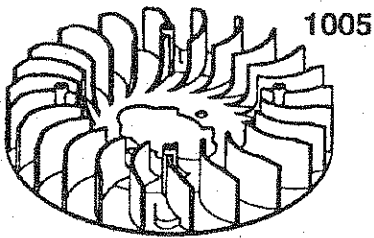
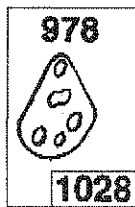
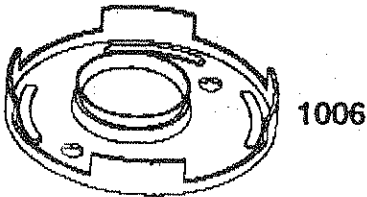
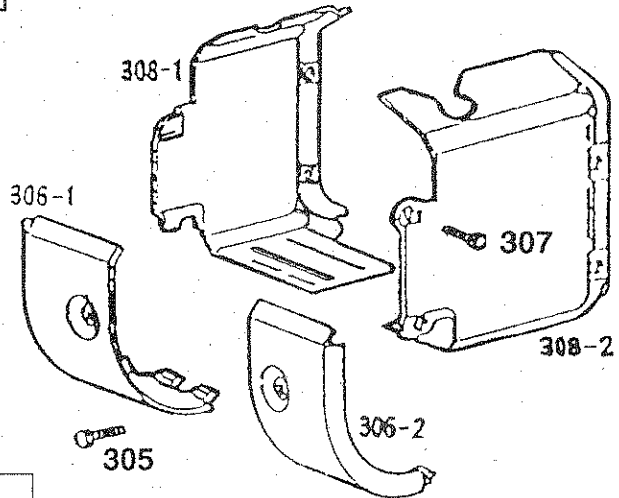
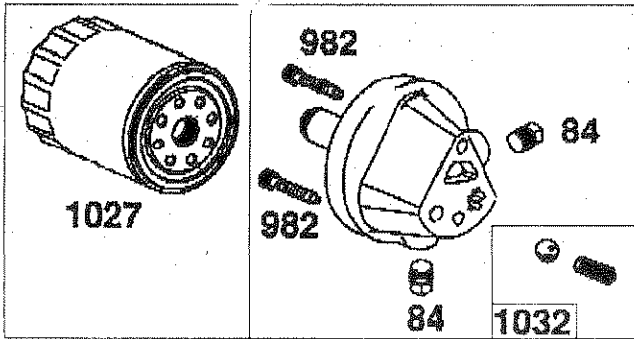
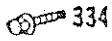
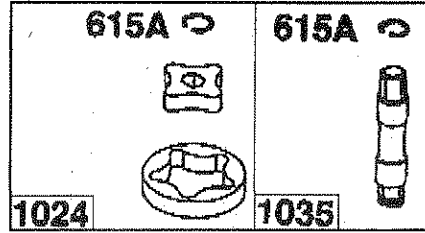
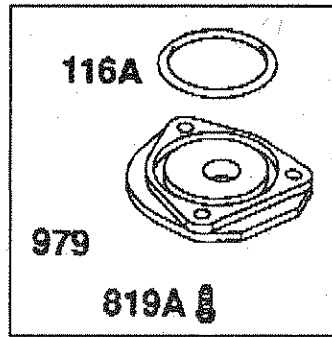
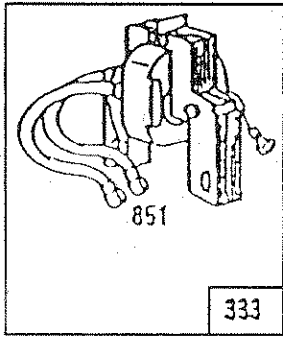
ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

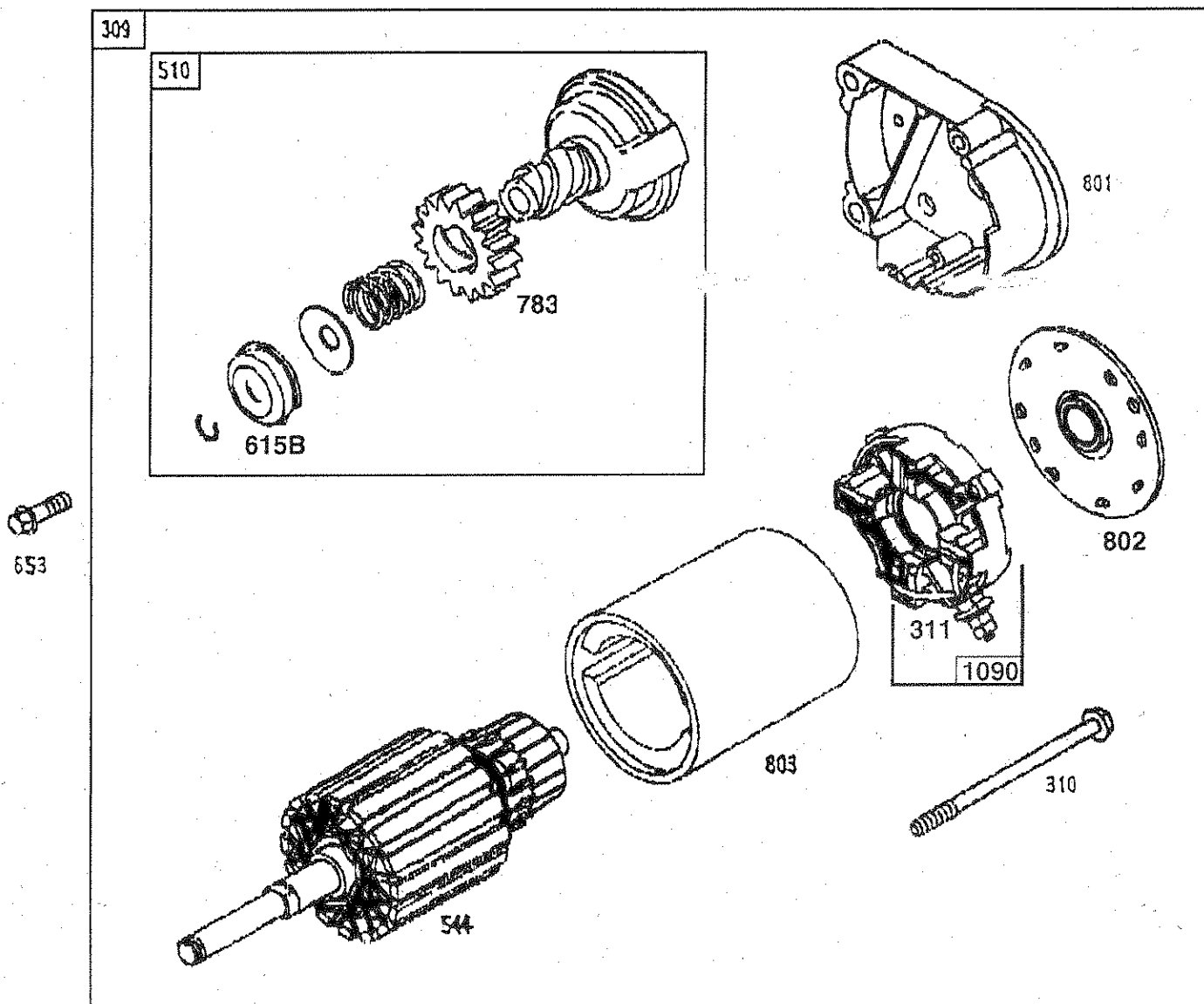
ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01

| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|------------------|--|------------------|--|
| 1 498583 | Cylinder Assembly | 53 93970 | Screw, Sems, Carburetor Mounting |
| 2 397265 | Bearing, Cylinder | 54 93208 | Screw, Sems, Intake Manifold Mounting |
| 3 391086 | * Seal, Oil | 73 497908 | Screen, Rotating |
| 5-1 214517 | Head, Cylinder Number 1 | 75 222511 | Washer, Spring |
| 5-2 214518 | Head, Cylinder Number 2 | 78 95039 | Screw, Sems |
| 7-1 271867 | **** Gasket, Cylinder Head Number 1 | 84 91488 | Plug, Pipe |
| 7-2 271868 | **** Gasket, Cylinder Head Number 2 | 90 495009 | Carburetor Assembly |
| 8-1 495754 | Breather Assembly Number 1 | 91 495035 | Body Assembly, Upper Carburetor |
| 8-2 222892 | Cover, Breather, Cylinder Number 2 (Use with Key Number 572, Air Baffle with Mounting Holes) | 93 231209 | Bushing, Throttle Shaft |
| 9 27803 | **** Gasket, Valve Cover | 94 491538 | ** Valve Assembly, Carburetor Idle |
| 10 94382 | Screw, Hex, Head | 95 93499 | Screw, Sems, Throttle and Choke Valve Mounting |
| 10A 94830 | Screw, Sems | 96 221939 | Valve, Throttle |
| 11 280225 | Tube, Breather | 97 393469 | Shaft and Lever, Throttle |
| 12 271703 | * Gasket, Crankcase Cover, 1/64" | 98 91920 | Screw, Machine, Fillister Head |
| 271188 | * Gasket, Crankcase Cover, .005" | 99 26157 | Spring, Throttle Adjustment |
| 271189 | * Gasket, Crankcase Cover, .009" | 102 271607 | ** Gasket, Carburetor Body |
| 13 94565 | Screw, Cylinder Head | 103 298514 | Float, Carburetor |
| 15 94239 | Plug, Oil Drain | 104 230896 | ** Pin, Float Hinge |
| 16 498129 | Crankshaft | 105 394683 | ** Valve, Fuel Inlet |
| 94196 | Key, Timing Gear | 107 491543 | Body, Lower Carburetor |
| 18 492575 | Base Assembly, Crankcase | 108 223534 | Valve, Choke |
| 20 291675 | * Seal, Oil | 109 392673 | Shaft and Lever, Choke |
| 22 94724 | Screw, Sems, Crankcase Cover Mounting | 116 280474 | O-Ring |
| 23 491180 | Flywheel and Ring Gear Assembly, Magnet | 119 94152 | Screw, Sems, Hex Head |
| 24 222698 | Key, Flywheel | 121 491539 | Carburetor Overhaul Kit |
| 25 498584 | Piston Assembly, Standard Size | 127 223472 | Plug, Welch |
| 498585 | Piston Assembly, .010" Oversize | 161 496599 | Body, Cleaner |
| 498586 | Piston Assembly, .020" Oversize | 165 94289 | Nut, Wing |
| 498587 | Piston Assembly, .030" Oversize | 187 299146 | Line, Fuel, 28" (Cut to Suit) |
| 26 394959 | Ring Set, Piston, Standard Size | 188 94627 | Screw, Hex Head |
| 394960 | Ring Set, Piston, .010" Oversize | 201 262683 | Link, Governor |
| 394961 | Ring Set, Piston, .020" Oversize | 202 262684 | Link, Throttle |
| 394962 | Ring Set, Piston, .030" Oversize | 203 280997 | Crank, Bell |
| 27 263129 | Lock, Piston Pin | 205 93971 | Screw, Shoulder |
| 28 498319 | Pin Assy., Piston, Standard Size | 206 94298 | Nut, Square |
| 29 498314 | Rod Assembly, Connecting | 207 262337 | Spring Compression |
| 32 95017 | Screw, Connecting Rod | 209 262352 | Spring, Governor |
| 33 390420 | Valve, Exhaust | 209A 261563 | Spring, Governor Idle |
| 34 263137 | Valve, Intake | 219 393415 | Oil Slinger Assembly |
| 35 65906 | Uses: 393606 Seal Assembly and Retainer (Key Number 868) | 219A 394348 | Gear, Governor |
| 36 26828 | Spring, Intake Valve | 220 222773 | Washer, Thrust |
| 40 221596 | Spring, Exhaust Valve | 222 491282 | Plate Assembly, Governor Control |
| 41 292260 | Retainer, Intake Valve | | |
| 42 494553 | Rotocoil, Exhaust Valve | | |
| 45 261368 | Retainer, Exhaust Valve Rotocoil(2) | | |
| 46 214287 | Tappet, Valve | | |
| 50 213290 | Gear, Cam | | |
| 51 271412 | Manifold, Intake | | |
| 51A 281411 | **** Gasket, Carburetor & Intake Elbow | | |
| 52 270884 | Spacer, Carburetor | | |
| | **** Gasket, Intake Manifold Mounting | | |

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.251470

ENGINE B&S - MODEL NUMBER 460777, TYPE NUMBER 1297-01

| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|------------------|--|------------------|--|
| 224 94297 | Screw, Pan Head | 615A 94900 | Retainer, E-Ring |
| 227 491297 | Lever Assembly, Governor | 615B 263080 | Retainer |
| 230 223882 | Washer, Governor Crank, Inside | 616 491530 | Crank, Governor |
| 235 224995 | Shield, Spitback | 634 271013 | ** Washer, Throtte Shaft |
| 240 394358 | Filter, Fuel (In Fuel Line to Tank) | 634A 491287 | * Seal, Governor Shaft |
| 244 230318 | Connector, Impulse Pump | 635 66538 | Elbow, Spark Plug |
| 257 93897 | Screw, Sems | 642 225008 | Cover, Air Cleaner |
| 258 94623 | Screw, Sems | 643 496700 | Cartridge Plate, Air Cleaner |
| 267 93897 | Screw, Hex Head | 653 93585 | Screw, Hex Head |
| 284 94264 | Screw, Hex Head | 726 391362 | Gear, Flywheel Ring Includes Mounting P |
| 284A 94910 | Screw, Hex Head | 741 262989 | Gear, Timing |
| 304 495587 | Housing, Blower | 801 394860 | Cap, Drive |
| 305 94786 | Screw, Sems | 802 497607 | Cap, End |
| 306-1 222846 | Shield, Cylinder | 803 497604 | Housing, Starter |
| 306-2 223734 | Shield, Cylinder | 819 94675 | Screw, Hex Head |
| 308-1 224774 | Cover, Air Guide | 819A 94410 | Screw, Hex Head |
| 308-2 224775 | Cover, Air Guide | 842 270920 | * Seal, Oil Filler Cap |
| 309 497596 | Motor, Starter | 847 495715 | Dipstick and Tube Assembly |
| 310 94003 | Bolt, Thru | 851 493880 | Terminal, Ignition Cable |
| 311 497608 | Brush set | 858 270989 | **** Diaphragm, Damping |
| 332 230674 | Nut, Hex | 859 271025 | **** Gasket, Carburetor Pump |
| 333 394891 | Armature Group, MAGNETRON® Ignition | 860 261358 | **** Spring (2) |
| 334 93381 | Screw, Sems, Armature Mounting | 861 393397 | Repair Kit, Pump |
| 337 802592 | Plug, Spark, Resistor (with Gasket) | 868 273312 | Seal, Intake Valve |
| 356 494705 | Wire, Ground | 868A 497656 | Seal, Intake Valve |
| 358 495868 | Gasket Set | 869 261463 | Seat, Intake Valve, Standard |
| 363 19203 | Puller, Flywheel (Optional Accessory) | 870 213316 | Seat, Exhaust Valve, Standard |
| 380 62199 | Washer | 871 261961 | Guide, Exhaust Valve |
| 383 89838 | Wrench, Spark Plug | 231218 | Guide, Intake Valve (See Manual) |
| 387 280197 | Body, Pump | 877 393456 | Connector Assembly, Dual-Circuit |
| 392 261395 | **** Spring, Pump | 881 495901 | Cover Plate, Crankcase (Includes Gasket - Key #569) |
| 394 272638 | **** Diaphragm | 955 397882 | Seal, Solenoid |
| 414 220680 | Washer | 978 272060 | * Gasket, Adapter |
| 422 222875 | Clamp, Oil Filler | 979 492197 | Cover, Oil Pump |
| 432 221377 | **** Cap, Spring | 982 94362 | Screw, Hex Head |
| 434 223688 | Cover, Diaphragm | 1005 281544 | Fan, Flywheel |
| 435 93829 | Screw, Diaphragm Cover | 1006 224901 | Retainer, Fan |
| 445 394019 | Cartridge, Air Cleaner | 1024 492196 | Pump, Oil |
| 474 393474 | Stator, Alternator, Dual-Circuit | 1027 492932 | Filter, Oil |
| 482 93621 | Screw, Sems | 1028 491721 | Starter, Oil Filter |
| 510 497606 | Drive, Starter | 1032 491710 | Ball, Oil Pump |
| 523 494927 | Cap and Dipstick, Oil Filler | 1035 492509 | Shaft, Pump |
| 524 280860 | * Seal, Filler Tube | 1090 497605 | Retainer, Brush |
| 525 495348 | Tube, Oil Filler | | |
| 528 393815 | Impulse Line and Clamp Assembly | | |
| 534 94823 | Screw, Round Head | | |
| 535 272490 | Element, Air Cleaner ✓ | | |
| 537 271411 | *** Gasket, Air Cleaner | | |
| 544 497603 | Armature, Starter | | |
| 552 262332 | Lower Bushing, Governor | | |
| 552A 262331 | Upper Bushing, Governor | | |
| 556 93585 | Screw, Sems, Hex Head | | |
| 562 93853 | Bolt, Governor Lever | | |
| 567 94811 | Screw, Hex Hd, Back Plate to Cylinder | | |
| 569 272645 | * Gasket, Crankcase | | |
| 572 224816 | Baffle, Air, Cylinder Number 2 | | |
| 573 491304 | Back Plate Assembly | | |
| 592 92278 | Nut, Hex | | |
| 601 93053 | Clamp, Fuel Line | | |
| 615 94296 | Retainer, E-Ring | | |

RPM Settings: Low: 1100-1400, High: 3200-3400

* Included in Gasket Set (495868)

** Included in Carburetor Overhaul Kit (491539)

*** Included in both Gasket Set (495868), and Carburetor Overhaul Kit (491539)

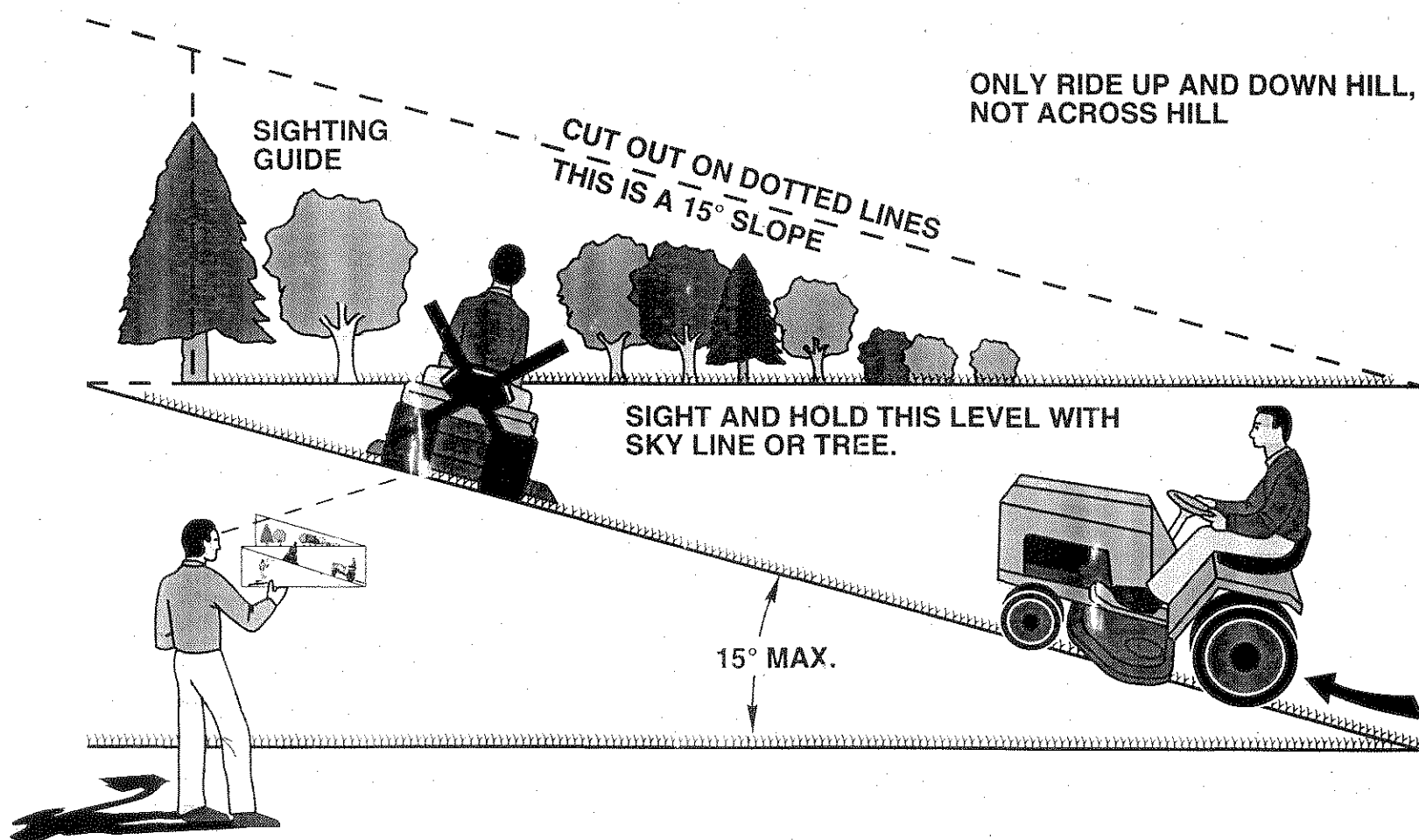
**** Included in both Carburetor Overhaul Kit (491539), and Pump Repair Kit (393397)

***** Included in valve overhaul Gasket set (498047)

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

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

SEARS

OWNER'S MANUAL

**MODEL NO.
917.251470**

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:

1-800-659-5917

CRAFTSMAN®

20.0 HP ELECTRIC START 44" MOWER 6 SPEED TRANSAXLE GARDEN 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 - 917.251470**
- **ENGINE MODEL NO. - 460777, TYPE NO. 1297-01**
- **PART NUMBER**
- **PART DESCRIPTION**

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