SEARS

MODEL NUMBER 917.250051 OWNER'S MANUAL

Assembly
Operation
Customer
Responsibilities
Service
Adjustments
Repair Parts

aution:

ead and Follow I Safety Rules and Instructions efore Operating his Equipment



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



SAFETY RULES

Safe Operation Practices for Ride-On Mowers



IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- · Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments.
 These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up.
 Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

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 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 | 917.250051 |
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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 manual.

PRODUCT SPECIFICATIONS

| HORSEPOWER: 20.0 GASOLINE CAPACITY: 3.5 GALLONS UNLEADED REGULAR OIL (3.8 PINTS w/Filter) SAE 30 (above 32°F) (3.5 PINTS w/o FILTER) 5W-30 (below 32°F) SPARK PLUG (GAP.025 IN.): CHAMPION RV15YC VALVE CLEARANCE: INTAKE .003006 IN. EXHAUST .016019 IN. GROUND SPEED: (MPH): LO HI 1st .8 1.8 | | 1674-49 16-4-4 | a a small | ··· |
|--|--------------------------|----------------|-----------|---|
| UNLEADED REGULAR OIL (3.8 PINTS w/Filter) SAE 30 (above 32°F) (3.5 PINTS w/o FILTER) 5W-30 (below 32°F) SPARK PLUG (GAP.025 IN.): CHAMPION RV15YC VALVE CLEARANCE: INTAKE .003006 IN. EXHAUST .016019 IN. GROUND SPEED: (MPH): LO HI 1st .8 1.8 | HORSEPOWER: | 20.0 | | |
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| EXHAUST .016019 IN. GROUND SPEED: (MPH): LO HI 1st .8 1.8 | SPARK PLUG (GAP.025 IN.) | : CHAMP | ION RV15 | YC |
| LO HI 1st .8 1.8 | VALVE CLEARANCE: | | | |
| 1st .8 1.8 | GROUND SPEED: | | | |
| 1.01 | | 1 -1 | | |
| 2nd 1.4 3.4 | | | | |
| 3rd 2.4 5.5 | | 144 - 1 4 - | | |
| Rev9 2.1 | | | | |
| TRANSAXLE OIL NON-DETERGENT (4 QUARTS CAPACITY) SAE30 (ISO 100) | | | — | <u> </u> |
| TIRE PRESSURE: FRONT: 14 PSI REAR: 10 PSI | TIRE PRESSURE: | | | |
| CHARGING SYSTEM: 15 AMPS @ 3600 RPM | CHARGING SYSTEM: | 15 AMPS | S @ 3600 | RPM |
| BLADE BOLT TORQUE: 30-35 FT. LBS. | BLADE BOLT TORQUE: | 30-35 FT | T. LBS. | ethe with the the transfer of |

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 ELECTRIC START RIDING EQUIPMENT

For two years from date of purchase, when this riding equipment is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

This Warranty does not cover:

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

FULL 90 DAY WARRANTY ON BATTERY

For 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.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

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

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

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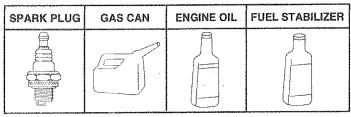
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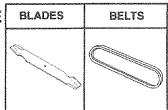
ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available when the tractor was purchased. They are also available at most Sears retail outlets, catalog and service centers. 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, wheel weights or rear drawbar weight.)

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT END LOADER system includes double wide rear tires, rear weight box, and hydraulically operated 5.26 cu.ft. bucket. Available for horizontal engine garden tractors only. (Catalog only.)

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain. Available for 38", 42" and 44" mower decks only.

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

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

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

MULCHING KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3 in One Convertible mowers.

PLOW turns soil 6 inches deep, cuts 10-inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy steel landslide 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 BLADE is 42 inches wide and operated from driver's seat. Reversible steel blade can be angled at 30 degrees for grading. Reverses for snow plowing. (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 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains, wheel weights, 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 when pulling, 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.)

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

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

TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl 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.

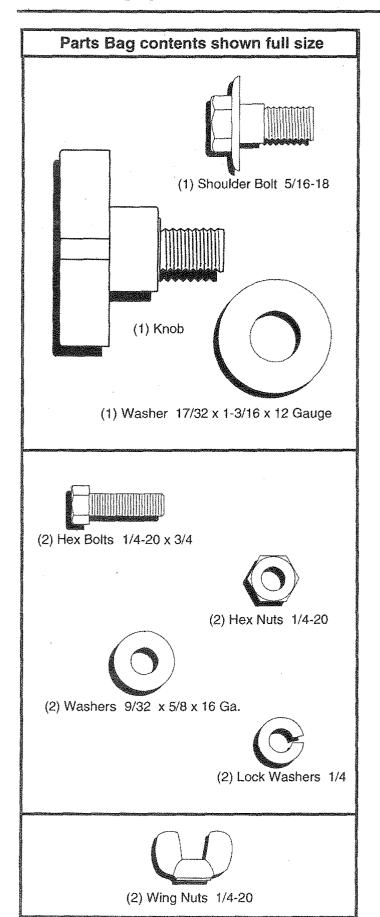
TRACTOR COVER protects tractor from weather. Made of Evolution 3 fabric (water-repellent, extremely breathable, light weight, soft, non-abrasive, pliable in all temperatures, durable, stain/tear/puncture resistant, will not shrink or stretch). (Catalog only.)

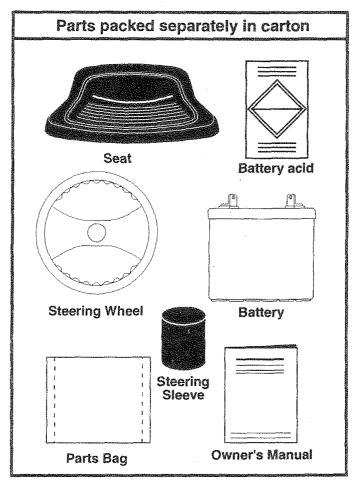
VACS for powerful collection of heavy grass clippings and leaves. Wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

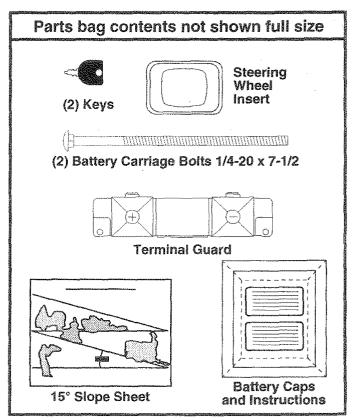
WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

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

CONTENTS OF HARDWARE PACK







ASSEMBLY

Your new tractor has been assembled at the factory with the 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 their proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

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

- (2) 7/16" wrenches
- (1) Tire pressure gauge
- (1) 9/19" wrench
- (1) Adjustable wrench
- (1) 1/2" wrench
- (1) Utility knife

When right and 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

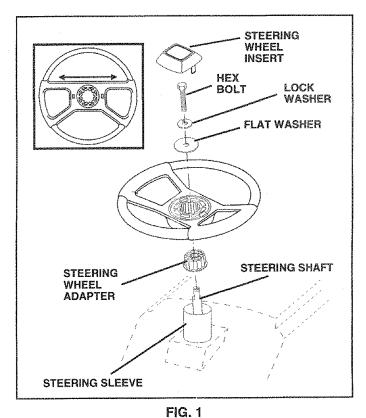
- Remove all accessible loose parts from carton (See page 6).
- Cut along lines on the carton, from top to bottom, all four corners of carton and lay panels flat.
- Check for any additional loose parts or cartons and remove.

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

- Remove hex bolt, lock washer 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 hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.
 IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES
 IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR
 IS TO ROLL OFF SKID.

TO ROLL TRACTOR OFF SKID (See Fig. 2)

- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in "NEUTRAL" position.
- · Roll tractor backwards off skid.



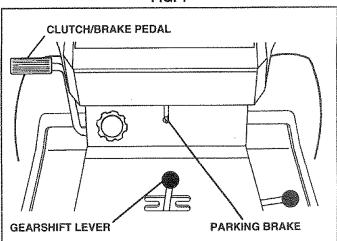


FIG. 2

ASSEMBLY

HOW TO SET UP YOUR TRACTOR PREPARE BATTERY (See Fig. 3)

CAUTION: Wear eye and face shield.

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

Do not smoke. Fumes from charged

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

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

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

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the level of acid. If below the vent wells, add more acid until the correct level is reached.

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

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

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

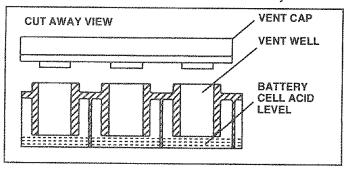


FIG. 3

INSTALL SEAT (See Fig. 4)

Adjust seat before tightening adjustment knob.

- · Remove cardboard packing on seat pan.
- Place seat on pan and assemble shoulder bolt.
- Assemble adjustment knob 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 knob securely.

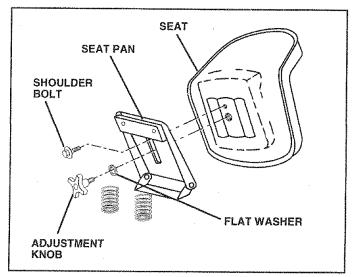


FIG. 4

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 BATTERY (See Figs. 5 & 6)



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

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

- · Raise hood.
- Make sure drain tube is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- Place battery in plastic tray, battery terminals to front of tractor.
- 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.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

Use terminal access doors for:

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

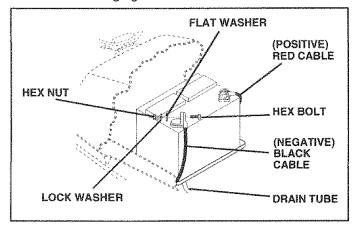


FIG. 5

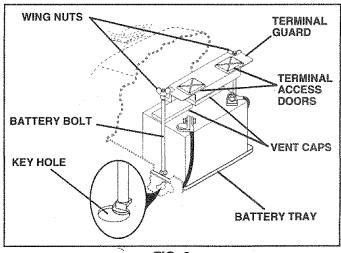


FIG. 6

V CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

OPERATION

KNOW YOUR TRACTOR

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

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

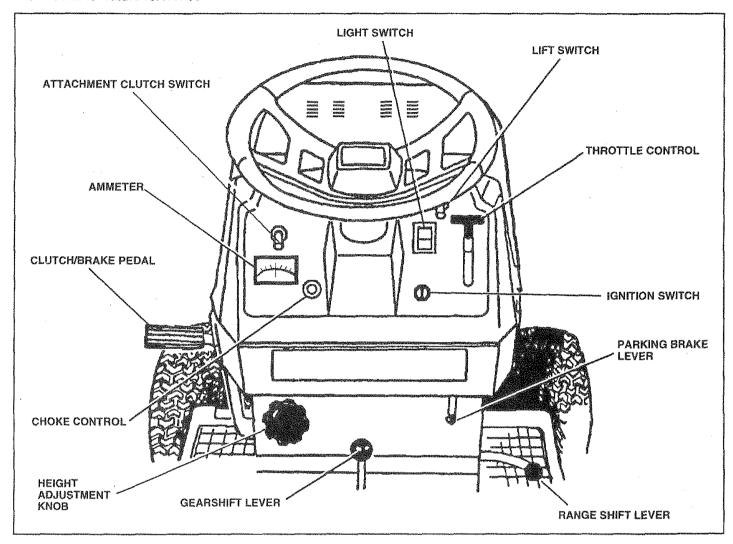


FIG. 7

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

ATTACHMENT CLUTCH SWITCH - Used to engage mower blades or other attachments mounted to your tractor.

LIFT SWITCH - Used to raise and lower mower deck or other attachments mounted to your tractor. Ignition switch must be on to operate this switch.

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

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

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.

GEARSHIFT LEVER: Selects the speed and direction of tractor.

THROTTLE CONTROL - Used to control engine speed. **RANGE SHIFT LEVER** - Allows "HI" or "LO" speed for all forward and reverse gears.

IGNITION SWITCH - Used to start and stop the engine. **LIGHT SWITCH** - Turns the headlights on and off.

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

CHOKE CONTROL - Used when starting a cold engine.

OPERATION

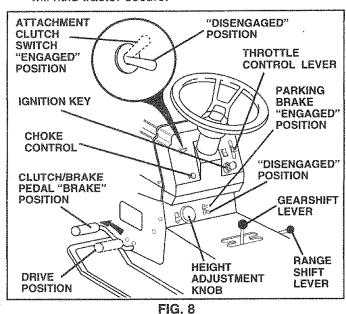


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tractor and while moving. We recommend wide vision safety mask for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 8)

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

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



STOPPING (See Fig. 8)

MOWER BLADES -

 Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to "NEUTRAL" position.

ENGINE -

Move throttle control to "SLOW" position.

NOTE: Failure to move throttle control to "SLOW" position or 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 engine running, hot engine exhaust gasses may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass covered areas.



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

TO USE CHOKE CONTROL (See Fig. 8)

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 USE THROTTLE CONTROL (See Fig. 8)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Fig. 8)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in "NEUTRAL" position.
- Move gearshift and range shift levers 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 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 to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and range shift lever to "LO" position. 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.

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OPERATION

TO TRANSPORT

- Raise attachment lift to highest position with lift control.
- When pushing or towing your unit, be sure gearshift lever is in "NEUTRAL" position.
- Do not push or tow unit 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. 9)

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

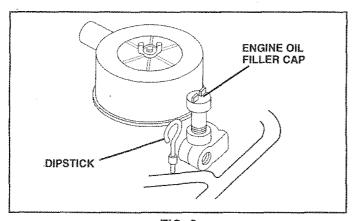


FIG. 9

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

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

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



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

TO START ENGINE (See Fig. 8)

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" 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.

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|-----------|--|----------|--|-------|-----------------|-----------------|------------|-----------------------|----------|------|-----|------|------|-----|
| | Check Brake Operation | 8 | | W | | | | | | | | | | |
| | Check Tire Pressure | V | | 8,000 | | | | | | | | | | |
| | Check for Loose Fasteners | V | | | | | | | | | | | | |
| R | Sharpen/Replace Mower Blades | | | | 3 6888 4 | | | | | | | | | |
| | Lubrication Chart | | | | 1 | | | | W | | | | | |
| Ť | Check Battery Level/Recharge | | | | W | | - | | | | | | | |
| 0 | Clean Battery and Terminals | | | | September 1 | | | | 8 | | | | | |
| R | Check Transaxle Cooling | | | | M | | | | | | | | | |
| | Adjust Blade Belt(s) Tension | | | | | | 5 | | _ | | | | - | |
| | Adjust Motion Drive Belt(s) Tension | | | | | | 1 5 | | | | | | | |
| | Check Engine Oil Level | V | | V | | revenue and | | | | | | | | |
| | Change Engine Oil | | 8/ | | 1,2,3 | | | | 8 | | | | | |
| E | Clean Air Filter | | | | 2 | | | | | | | | | |
| N | Clean Air Screen | | | | 3 /2 | | | | | | | | | |
| G | Inspect Muffler/Spark Arrester | | | | | September 1 | | | | | | | | |
| | Replace Oil Filter (If equipped) | | | | | | 1,2 | | | | | | | |
| N | Clean Engine Cooling Fins | | | | | | 2 2 | | | | | | | |
| I | Replace Spark Plug | | | | | | Buster | 8/ | | | | | | |
| | Replace Air Filter Paper Cartridge | | and | | | | 2 | | | | | | | |
| | Replace Fuel Filter | | - Aller Anna Anna Anna Anna Anna Anna Anna Ann | | | | | 8 | | | | | | |

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.

- 3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when mowing in sandy soil.
- 5 If equipped with adjustable system.

GENERAL RECOMMENDATIONS

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

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

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

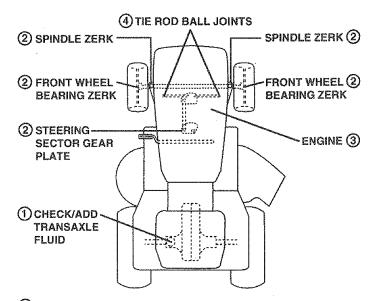
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

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

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.

LUBRICATION CHART



- 1 SAE 30 NON-DETERGENT OIL (ISO 100)
- (2) GENERAL PURPOSE GREASE
- ③ REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION
- (4) SPRAY SILICONE LUBRICANT (MOVE BOOTS TO LUBRICATE)

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 "PROD-UCT 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.

TRANSAXLE COOLING

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

CHECK TRANSAXLE OIL LEVEL (See Fig. 10)

- Block up rear axle securely or use a tractor jack.
- Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 non-detergent oil (ISO 100). Replace filler plug.
- Reassemble wheel to hub.
- For approximate capacity, see "Product Specifications" on page 3 of this manual.

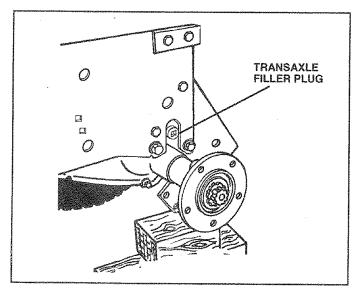


FIG. 10

BATTERY (See Fig. 11)

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 it's life.

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

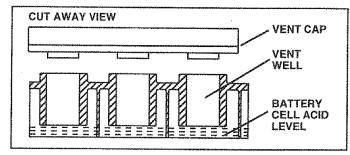


FIG. 11

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.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in the Assembly section of this manual).

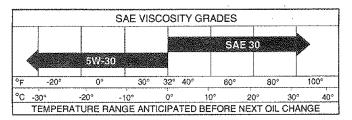
V-BELTS

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

ENGINE

LUBRICATION

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



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 50 hours thereafter or at least once a year if the tractor is not used for 50 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (5) hours of continuous use. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Figs. 12 and 13)

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- · Catch oil in a suitable container.
- Remove oil filler cap. 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 filler tube. Pour slowly. Do not overfill. For approximate capacity see "Product Specifications" on page 3 of this manual.
- Use gauge on dipstick for checking level. Be sure dipstick is in all the way for accurate reading. Keep oil at "FULL" line on dipstick.

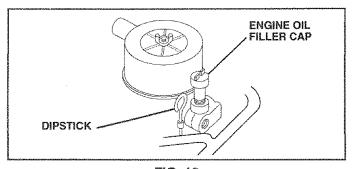


FIG. 12

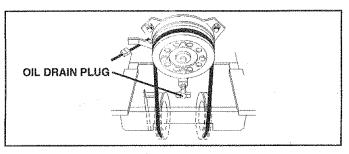


FIG. 13

CLEAN AIR SCREEN (See Fig. 14)

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.

CLEAN ENGINE COOLING FINS (See Fig. 14)

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

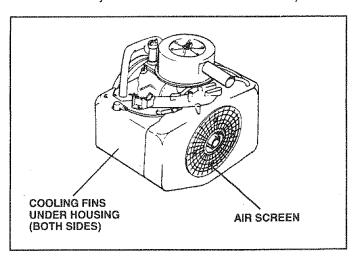


FIG. 14

AIR FILTER (See Fig. 15)

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

Service air cleaner more often under dusty conditions.

- Remove wing nut and cover.
- Remove seal and cartridge plate.

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.

TO SERVICE CARTRIDGE

- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, cartridge plate, and seal.
- Install the air cleaner cover and wing nut. Tighten wing nut 1/2 turn to 1 full turn after nut contacts cover. Do not overtighten.

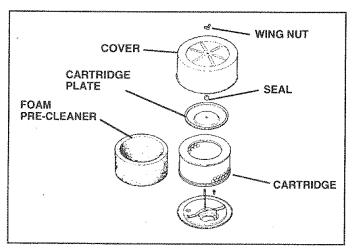


FIG. 15

MUFFLER

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

SPARK PLUGS

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

ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

IN-LINE FUEL FILTER (See Fig. 16)

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

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

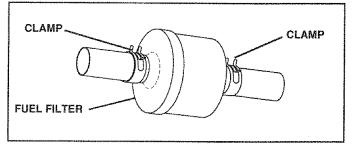


FIG. 16

CLEANING

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

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

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:



- Depress clutch/brake pedal fully and set parking brake. Place gearshift lever in "NEUTRAL" 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 plua.

POWER TAKE OFF (CLUTCH PULLEY -See Fig. 17)

The power take-off clutch should provide years of service. The clutch incorporates a built-in brake that stops the pulley almost immediately. Eventually, the internal brake will wear so the mower blades will not stop as recommended. Adjustments should be made by your nearest authorized service center.

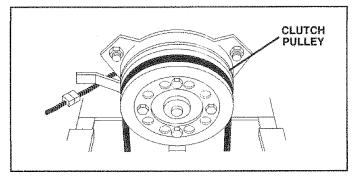


FIG. 17

TO ADJUST BRAKE (See Fig. 18)

Your tractor is equipped with an adjustable brake system which is mounted on the left 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. IMPORTANT: DO NOT OVER TIGHTEN BRAKE. WHEN DEPRESSING CLUTCH BRAKE PEDAL, THE MOTION DRIVE BELT MUST STOP MOVING (DECLUTCH FROM ENGINE PULLEY) BEFORE BRAKE ENGAGES. IMPROPER ADJUSTMENT WILL CAUSE HARD SHIFTING AND EXCESSIVE WEAR TO BRAKE LINING.

- Park and turn off the tractor on a level surface. Place gear shift lever in "N" (neutral) position. Disengage parking brake and be sure tractor does not roll in either
- Lower mower deck (if installed on tractor).
- Snap out access hole cover on left side of tractor above footrest.
- Loosen jam nut at clevis which will allow brake rod to be
- With pliers, from underside of frame, unscrew brake rod from clevis four (4) to six (6) full turns.
- Start tractor with gear shift lever in "N" (neutral) posi-
- Slowly depress clutch/brake pedal to the point where the motion drive belt stops moving. Hold clutch/brake pedal in this position and engage parking brake. If belt begins to move after engaging parking brake, reset parking brake by depressing clutch/brake pedal slightly to next notch on parking brake.

- Stop engine. Screw brake rod back into clevis until clevis pin is against rear edge of slot in brake arm. Do not over tighten (see "IMPORTANT" above).
- Tighten jam nut against clevis.
- Replace access hole cover.
- Road test tractor for proper stopping distance and declutching as stated above. Readjust if necessary. If proper adjustment cannot be attained, further maintenance is necessary. Contact your nearest authorized service center.

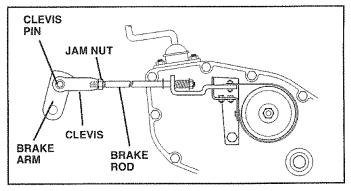


FIG. 18

TO REPLACE MOTION DRIVE BELT (See Figs. 19 and 20)

Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom side of left footrest. It is not necessary to remove mower.

BELT REMOVAL -

- Raise hood and disconnect negative ground battery cable.
- Set parking brake (to get belt slack).
- Loosen (do not remove) two (2) engine pulley belt guide bolts and swivel R.H. side of belt guide up. Tighten L.H. bolt to hold belt guide in position.
- Roll belt off engine pulléy.
- Roll belt off "V" idler, flat idler and clutching idler pulleys.
- Roll belt off clutch pulley-between pulley and chassis.
 Pull belt off transaxle pulley.

BELT INSTALLATION -

- Push belt down from engine pulley area. Place back (flat) side of belt on flat idler (flat idler is next to chassis).
- Place belt on clutching idler and over clutch pulley. "V" (narrow) part of belt should engage clutch pulley.
- Place belt around transaxle pulley. "V" part of belt should engage transaxle pulley.
- Make sure "V" part of belt engages "V" idler.
- Roll belt over engine pulley.
- Loosen L.H. engine pulley belt guide bolt and swivel belt guide on to R.H. bolt. Tighten L.H. and R.H. bolts securely.
- Release parking brake.

IMPORTANT: CHECK BRAKE ADJUSTMENT.

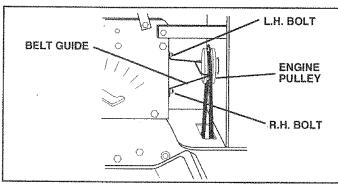


FIG. 19

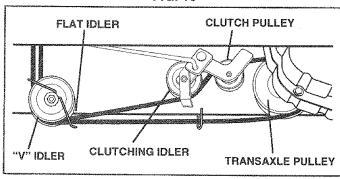


FIG. 20

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 ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN (See Fig. 21) -

- Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN (See Figs. 21 and 22) -

It is important that both tie rods be equal in length before adjusting toe-in. Both tie rods should measure approximately 10-1/4" in length (see inset). Adjust if necessary.

- Loosen jam nuts at adjustment sleeves on tie rods.
- Adjust both tie rods equally until dimension "A" is 1/8" to 1/4" less than dimension "B".
- Tighten jam nuts securely.

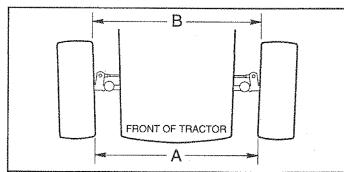


FIG. 21

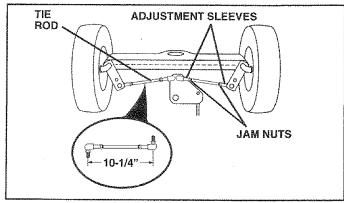


FIG. 22

FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center.

TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL (See Fig. 23) -

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal.
- · Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

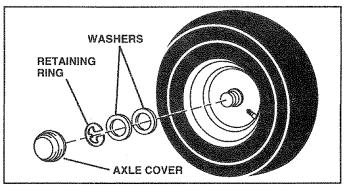


FIG. 23

REAR WHEEL-

- Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- Repair tire and reassemble. Replace and tighten hub bolts and axle cover securely.

TO START ENGINE WITH A WEAK BATTERY (See Figs. 24 and 25)



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

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

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

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE
 (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a bolt on the L.H. side of chassis, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from left side of chassis and fully charged battery.
- RED cable last from both batteries.

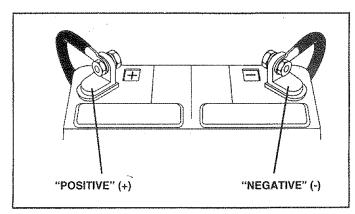


FIG. 24

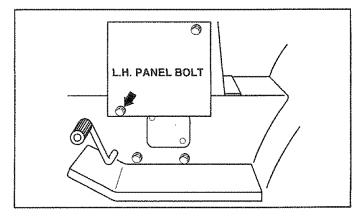


FIG. 25

TO REPLACE FUSE

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

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REMOVE HOOD AND GRILL ASSEMBLY (See Figs. 26 & 27)

- Lift hood. Disconnect headlight wire connection.
- Unscrew one screw at rear of each side panel.
- Pivot hood and side panel forward and lift off tractor.
- To replace, reverse above procedure.

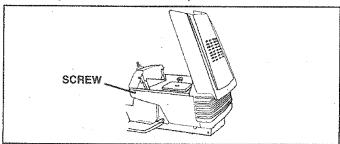


FIG. 26

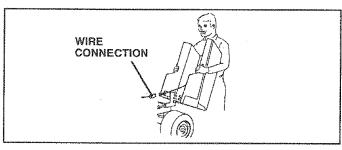


FIG. 27

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 throttle lever is against high speed stop. If it is not, loosen clamp screw and pull throttle cable until lever is against stop. Tighten clamp screw securely.

TO ADJUST CARBURETOR (See Fig. 29)

The carburetor has been present 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 not need adjustment, proceed as follows:

In general, turning the adjusting needles in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **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 fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 turns.
- Turn main fuel adjusting needle in (clockwise) closing finger tight and then turn out (counterclockwise) 1 turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in "NEUTRAL" position.
- With throttle control lever in "FAST" position, turn main fuel adjusting needle in (clockwise) until engine begins to die then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Idle speed setting With throttle control lever in "SLOW" position, engine should idle at 1400 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in "SLOW" position, turn idle fuel adjusting needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

 Move throttle control lever from "SLOW" to "FAST" 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, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

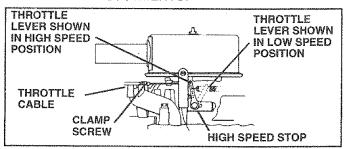


FIG. 28

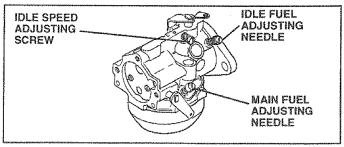


FIG. 29

STORAGE

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



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING

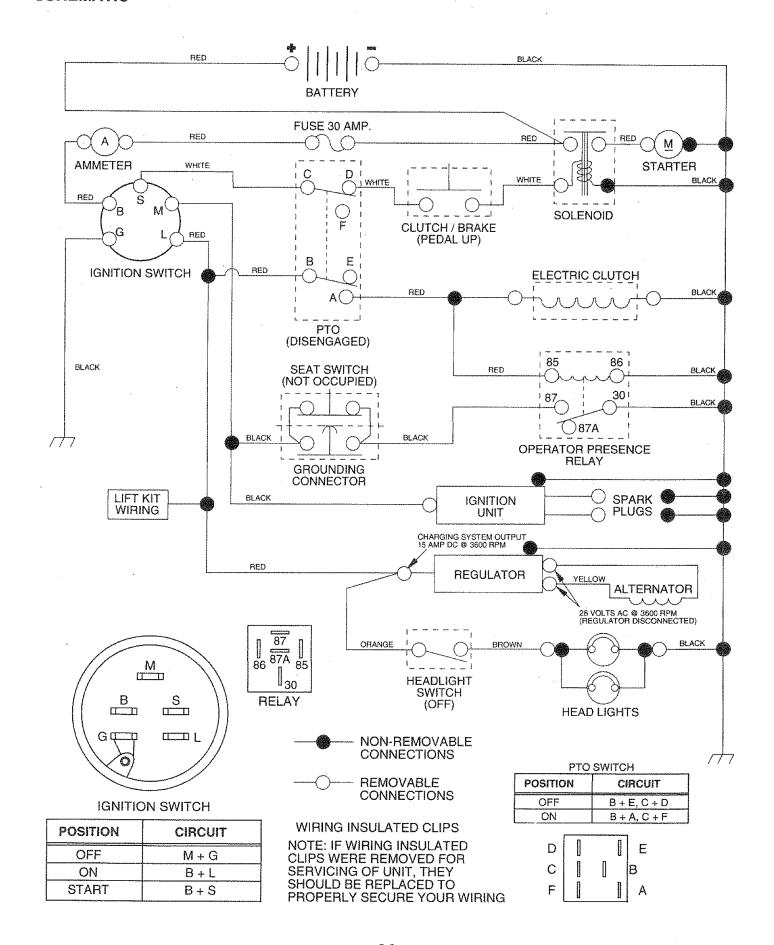
| PROBLEM | CAUSE | CORRECTION |
|----------------------------------|--|---|
| Will not start | 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment.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

TROUBLESHOOTING

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

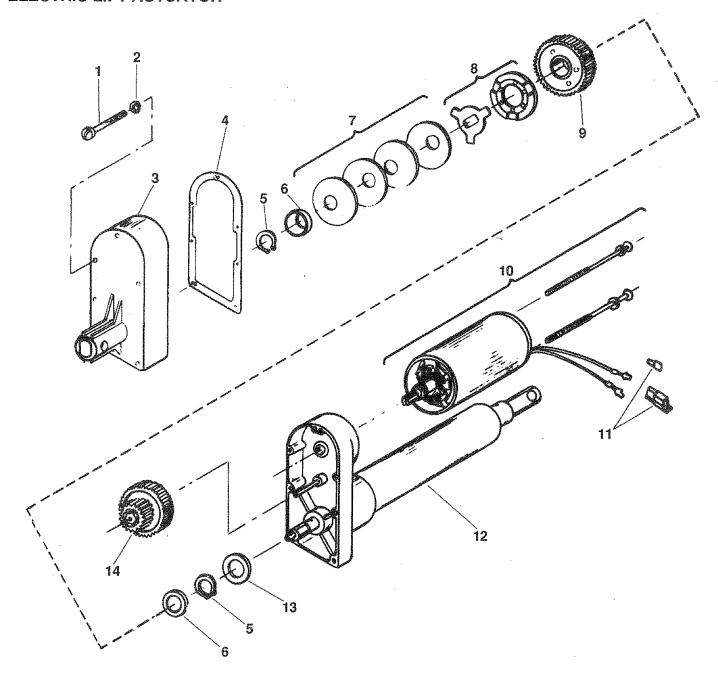
20 HP TRACTOR - - MODEL NUMBER 917.250051

SCHEMATIC



20 HP TRACTOR - - MODEL NUMBER 917.250051

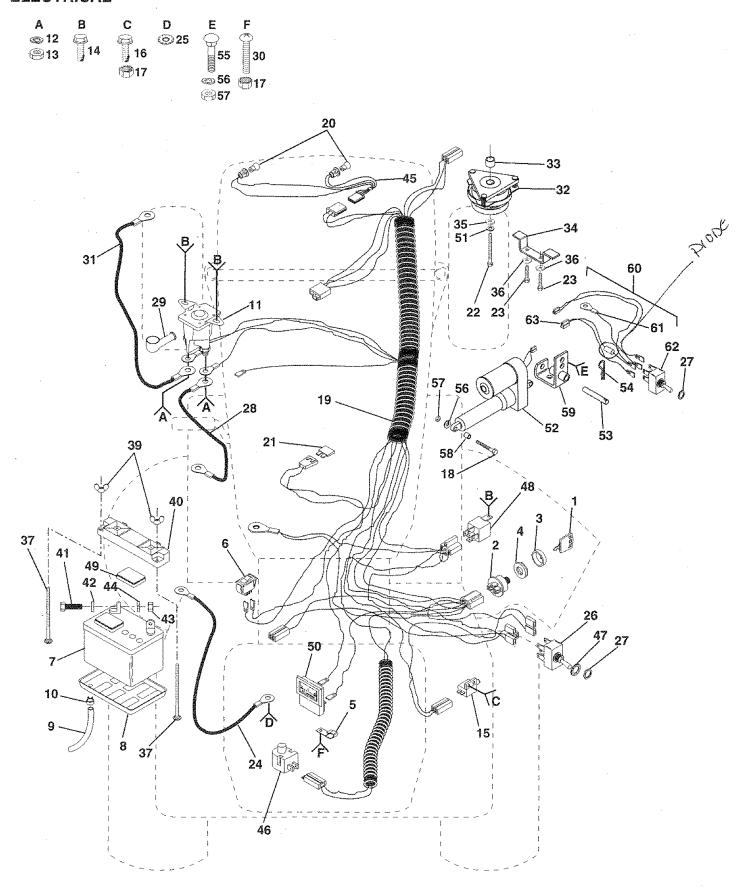
ELECTRIC LIFT ACTUATOR



| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|------------|-------------|--------------------------------------|------------|---|---------------------------------|
| 1 | 1862J | Screw - Sl. Fil. Hd. Mach. No. 10- | 8 | 674A281 | Pawl & RampWasher |
| | | 32 x 1-5/8 | 9 | 1859J | Out put Gear |
| 2 | 1863J | Lockwasher - No. 10 | 10 | 1861J | Motor - 12V |
| 3 | 8331J | Housing Cover | 11 | 673A218 | Connector Body Kit |
| 4 | 1857J | Cover Ğasket | 12 | *************************************** | Not Serviced Separately Order |
| 5 | 1865J | Snap Ring | | | complete actuator Part# 124371X |
| 6 | 1864J | Retaining Ring | 13 | 1860J | Thrust Washer |
| 7 | 677A149 | Spring Washer (Use 3 or 4 as reg'd.) | 14 | 1858J | Intermediate Gear |

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ELECTRICAL



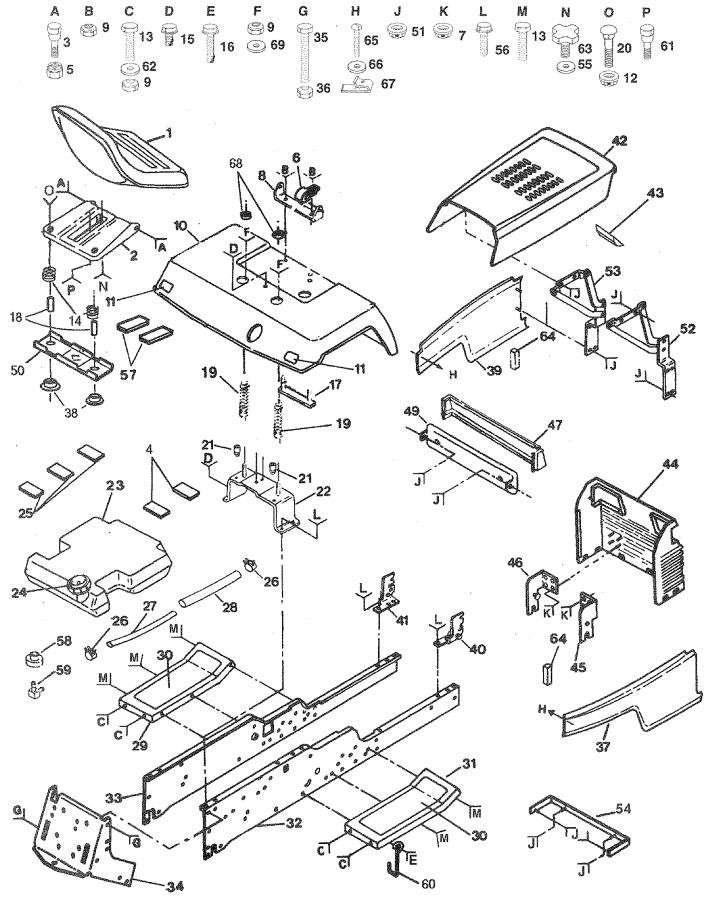
20 HP TRACTOR - - MODEL NUMBER 917.250051

ELECTRICAL

| KEY NO. | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|------------|-------------|--|----------|--------------------|--|
| 1 | 109310X | Key | 34 | 110882X | Stop, Clutch |
| 2 | STD365402 | Switch, Ignition | 35 | 126197X | Washer 1-1/2 x 15/32 x .250 |
| 3 | 123620X | Cover, Key Switch | 36 | STD551137 | Washer, Lock 3/8 |
| 4 | 124211X | Nut, Ignition | 37 | 72240460 | Bolt, Carriage 1/4-20 x 7-1/2 |
| | 4171R | Clip | 39 | 123198X | Nut, Wing 1/4-20 |
| 6 | 110712X | Switch, Light | 40 | 102476X | Guard, Terminal |
| 7 | 121537X | Battery | 41 | STD522507 | Bolt, Hex Head 1/4-20 x 3/4 |
| | 7603J | Tray, Battery | 42 | STD551025 | Washer 9/32 x 5/8 x 16 Gauge |
| | 7697J | Tube, Battery Drain | 43 | | Nut, Hex 1/4-20 |
| 10 | 109596X | Clamp, Hose | 44 | STD551125 | Washer, Lock 1/4 |
| 11 | 138406 | Solenoid | 45 | 136850 | Harness, Light Socket (Includes |
| 12 | 10090400 | Washer, Lock 1/4 | 40 | 40400=14 | Key #20) |
| | STD541225 | Nut, Hex, Jam 1/4-20 | 46 | 121305X | Switch, Plunger |
| 14 | 17720408 | Screw Thd. Cut. 1/4-20 x 1/2 TY23 | 47 | 19171216 | Washer 17/32 x 3/4 x 16 Gauge |
| | 104445X | Switch, Interlock | 48 | 109748X | Relay, Operator Presence |
| 10 | 71031008 | Screw, Hex Washer Head #10-32 x 1/2 | 49 50 | 121264X 122822X | Cap Set, Battery |
| 17 | 73951000 | Nut, Hex, Keps #10-32 | 50 51 | 10040700 | Ammeter Washer, Lock, Heavy Helical Spring |
| | 74520636 | Bolt, Hex. 3/8-16 x 2-1/4 Grade 5 | 51 | 10040700 | 7/16 |
| | 139207 | Harness, Ignition | 52 | 124371X | Actuator, Electric |
| | 4152J | Bulb, Headlight | 53 | 7085J | Pin, Actuator |
| | 108824X | Fuse | 54 | 4940M | Retainer, Spring |
| | 71130724 | Bolt, Hex Head, Fin. | 55 | 72110608 | Bolt, Carriage 3/8-16 x 1 Grade 5 |
| line Eur | 7110072-7 | 7/16-20 UNF x 1-1/2 Grade 8 | | 10040600 | Washer, Lock Hvy Hlcl Spr 3/8 |
| 23 | STD523707 | Bolt, Hex Head 3/8-16 x 3/4 | 57 | 73220600 | Nut, Hex 3/8-16 |
| | 121080X | Cable, Ground | 58 | 5950J | Bushing |
| | 11050600 | Washer, Lock, External Tooth 3/8 | | 677A886 | Bracket Asm. Actuator |
| | 4021J | Switch, P.T.O. | | 131133 | Harness Asm. Lift Switch |
| | 4022J | Nut, Hex | | 9698R | Ground Wire |
| | 4799J | Cable, Battery | | | Lift Switch |
| | 131563 | Cover Terminal | 63 | 127017X | Lift Harness |
| 30 | 74641008 | Screw #10-32 x 1/2 | | | |
| | 129458 | Cable, Starter | NOT | E: All compone | ent dimensions given in U.S. inches |
| | 127170X | Clutch, Electric | | 1 inch = 25.4 | |
| 33 | 128224 | Spacer, Clutch | | | |
| | | | | | |

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CHASSIS AND ENCLOSURES

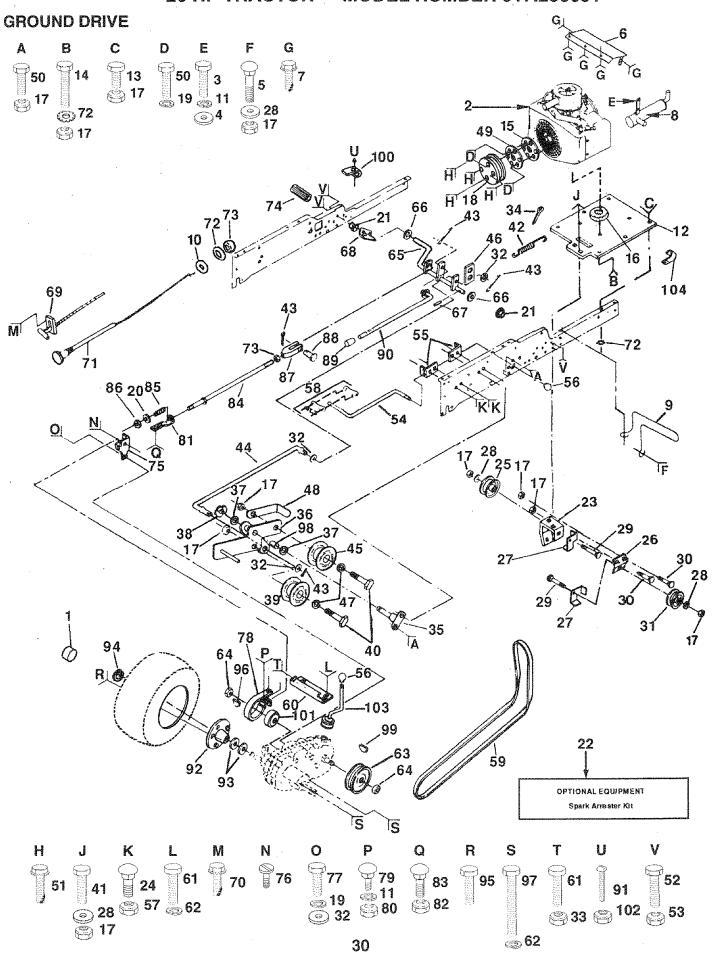


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CHASSIS AND ENCLOSURES

| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|--------|-------------|--------------------------------------|----------|-----------------|--|
| 1 | 127439 | Seat | 37 | 108403X459 | Side Panel, R.H. |
| 2 | 131451 | Pan, Seat | 38 | 121248X | Bushing, Snap |
| 3 | 105529X | Bolt, Shoulder | 39 | 108410X459 | Side Panel, L.H. |
| 4 5 | 109227X | Pad, Spacer | 40 | 130523 | Bracket, Pivot, Frame, R.H. |
| 5 | 73680500 | Nut, Crownlock 5/16-18 | 41 | | Bracket, Pivot, Frame, L.H. |
| 6 | 2751R | Clip | 42 | 106013X459 | Hood |
| 7 | 120579X | Nut, Pal | 43 | 136532 | Bumper Hood |
| 8 | 126656X | Bracket, Pivot, Seat | 44 | 120153X | Grill ' |
| 9 | 73680600 | Locknut 3/8-16 | 45 | 108512X | Bracket, Grill Pivot, R.H. |
| 10 | 121642X459 | Fender | 46 | 108513X | Bracket, Grill Pivot, L.H. |
| 11 | 106202X | Reflector, Taillight | 47 | 110898X | Lens, Headlight Bar |
| 12 | 123976X | Nut, Hex Flange Head 1/4-20 | 49 | 132257 | Bezel |
| 13 | STD523707 | Bolt, Hex Head 3/8-16 x 3/4 | | 121246X | Bracket, Switch |
| 14 | 123740X | Spring | 51 | 108067X | Nut, Pal |
| 15 | 17490608 | Screw, Hex Washer Head, Thd., | 52 | 106091X | Hinge, R.H. |
| 10 | 17400040 | Roll. 3/8-16 x 1/2 | 53 | 106090X | Hinge, L.H. |
| 16 | 17490616 | Screw, Hex Washer Head, Thd., | 54 | 110350X459 | Strap, Grill |
| 17 | 105511X | Roll. 3/8-16 x 1 | 55 | 19171912 | Washer 17/32 x 1-3/16 x 12 Gauge |
| 18 | 121249X | Strap, Fender | 56 | 17490612 | Screw, Hex Head, Thd., Roll. |
| 19 | 124181X | Spacer, Split Spring, Compression | =7 | 4040547 | 3/8-16 x 3/4 |
| 20 | 72050411 | Bolt, Carriage 1/4-20 x 1-3/8 | 57 58 | 121251X | Strip, Foam |
| 21 | 105531X | Nut, Push | | 3645J 139277 | Bushing Start Forty |
| 22 | 105509X | Bracket, Fender | 60 | 105500X | Stem, Fuel Tank |
| 23 | 127334X | Fuel Tank | 61 | 127018X | Retainer, Belt, Lower |
| 24 | 123549X | Cap, Fuel Tank | 62 | 19131312 | Bolt, Shoulder 5/16-18 UNC |
| 25 | 106082X | Pad, Spacer | | 120068X | Washer 13/32 x 13/16 x 12 Gauge Knob |
| 26 | 123487X | Clamp, Hose | | 106088X | Strip, Foam |
| 27 | 7834R | Line, Fuel | | 106909X | Screw, Special |
| 28 | 7833R | Line, Fuel | | 106910X | Washer |
| 29 | 105465X459 | Footrest, L.H. | | 108402X | U-Clip |
| 30 | 105466X | Pad, Footrest | | 124238X | Cap, Spring |
| 31 | 105464X459 | Footrest, R.H. | | 19131614 | Washer 13/32 x 1 x 14 Gauge |
| 32 | 138597 | Rail, Frame, R.H. | | | TO T |
| 33 | 110893X | | NOT | E: All compone | ent dimensions given in U.S. inches |
| 34 | 7982J | Drawbar | | 1 inch = 25.4 | 4 mm |
| 35 | 74760716 | Bolt, Hex Head 7/16-14 x 1 | | | |
| 36 | 73800600 | Locknut 7/16-14 | | | |

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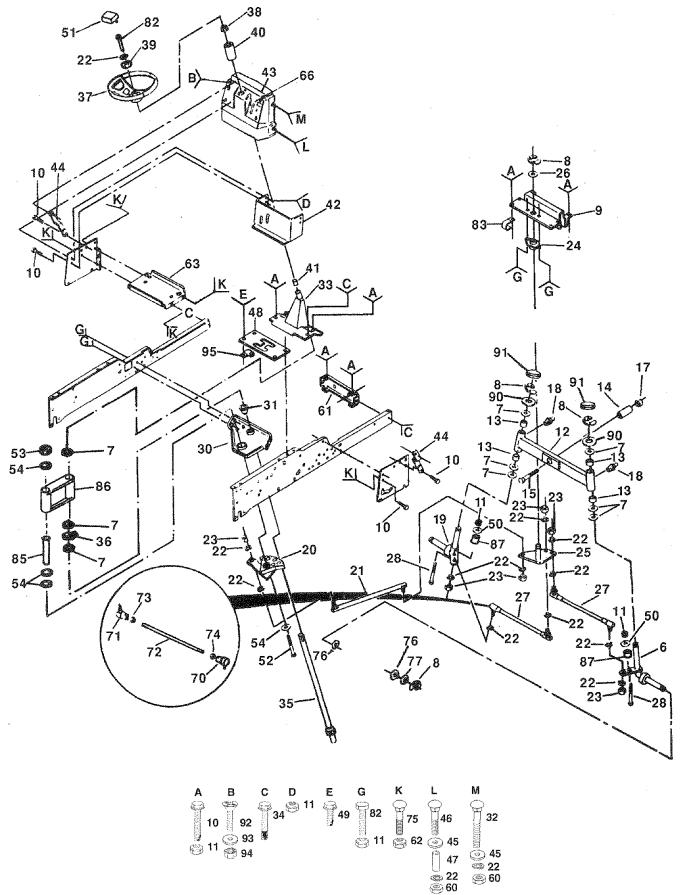
20 HP TRACTOR - - MODEL NUMBER 917.250051

GROUND DRIVE

| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|----------|-----------------------|---|----------|--|---|
| 1 2 | 136327 139360 | Cover, Wheel Hub Engine, Kohler, 20 HP, Model No. | 53 54 | 73680400 122253X | Nut, Crownlock 1/4-20 Rod, Shift, Hi-Lo |
| 3 | 74780412 | M20QS, Type No. 49634 Bolt, Hex Head 1/4-20 x 3/4 | 55 56 | 105598X 106932X | Bracket, Shift Rod Knob |
| 4 5 | 19091212 72140610 | Washer 9/32 x 3/4 x 12 Gauge Bolt, Carriage 3/8-16 x 1-1/4 | 57 58 | 73680500 122268X | Locknut 5/16-18 Clip, Spring, Connecting Link |
| 6 7 | 128124 17720408 | Heat Shield, Front | 59 | 110883X | V-Belt |
| | | Screw, Hex Head, Thread Cutting 1/4-20 x 1/2 | 60 61 | 120404X 74760716 | Bracket, Support, Transaxle Bolt, Hex Head 7/16-14 x 1 |
| 8 9 | 127881 108885X | Muffler Guard, Muffler | 62 63 | STD551143 137524 | Washer, Lock 7/16 |
| 10 | 19132616 | Washer 13/32 x 1-5/8 x 16 Gauge | 64 | 9204H | Pulley, Transaxle Locknut 1/2-20 |
| 11 12 | STD551125 110867X | Washer, Lock 1/4 Base, Engine | 65 66 | 104375X 121749X | Shaft, Foot Pedal Washer 25/32 x 1-1/4 x 16 Gauge |
| 13 | STD523707 | Bolt, Hex Head 3/8-16 x 3/4 | 67 | STD571812 | Pin, Roll 3/16 x 1-14 |
| 14 15 | 74780624 110947X | Bolt 3/8-16 x 1-1/2 Guard, Chaft | | 104601X 132755 | Bracket, Interlock Control, Throttle |
| 16 17 | 133692 73680600 | Spacer Plate, Engine Mounting Locknut 3/8-16 | 70 | 17720410 | Screw, Hex Head, Thread Cutting |
| 18 | 121355X | Pulley, Ground Drive | 71 | 132777 | 1/4-20 x 1 Control, Choke |
| 19 20 | STD551137 19131614 | Washer, Lock 3/8 Washer 13/32 x 1 x 14 Gauge | 72 73 | 11050600 STD541137 | Washer, Lock, External Tooth 3/8 Nut, Hex 3/8-24 |
| 21 22 | 110895X | Nyliner | 74 | 8883R | Cover, Foot Pedal |
| 23 | 132922 121063X | Kit, Spark Arrester Bracket, V-Pulley, Mule Drive | 75 76 | 677A637 74370612 | Bracket, Brake Screw, Machine, Undercut Flat |
| 24 25 | 72140506 101344L | Bolt, Carriage 5/16-18 x 3/4 Pulley | 77 | | Head 3/8-16 x 3/4 |
| 26 | 122825X | Bracket, Flat Idler | 78 | 74760614 101122M | Bolt, Hex Head 3/8-16 x 7/8 Band, Brake |
| 27 28 | 122824X 19131612 | Belt Guard, Mule Drive Washer 13/32 x 1 x 12 Gauge | 79 80 | 72140405 STD541025 | Bolt, Carriage 1/4-20 x 5/8 Nut, Hex 1/4-20 |
| 29 30 | 72110614 72140606 | Bolt, Carriage 3/8-16 x 1-3/4 | 81 | 7229J | Guide, Brake Rod |
| 31 | 102403X | Bolt, Carriage 3/8-16 x 3/4 Idler, Flat | | 1685H STD533110 | Locknut 5/16-18 Bolt, Carriage 5/16-18 x 3/4 |
| 32 33 | STD551037 73680700 | Washer 13/32 x 13/16 x 16 Gauge Nut, Crownlock 7/16-14 | | 5308J 7241J | Rod, Brake Spring, Compression |
| 34 35 | 76020816 101358K | Pin, Cotter 1/4 x 1 | 86 | 73530600 | Nut, Crownlock 3/8-24 |
| 36 | 121356X | Clutch Bracket Assembly Bracket, Clutch, with Bearing | | 100604K 5102J | Yoke Pin, Clevis |
| 37 | 207J | (Includes Key Number 98) Washer, Hardened | 89 | 124236X | Cap, Plunger |
| 38 | 12000039 | Ring, Klip | 91 | 136284 74321016 | Rod, Parking Brake Screw, Fin. #10-24 x 1 |
| 39 40 | 121361X STD523715 | Idler, Grooved Bolt, Hex Head 3/8-16 x 1-3/4 | | 135758X431 7563R | Hub, Wheel and Bushing Washer, Thrust, Axle |
| 41 42 | 74760620 121357X | Bolt, Hex Head 3/8-16 x 1-1/4 Spring, Extension, Clutch | 94 | 12000034 | Ring, Klip |
| 43 | STD570907 | Pin, Cotter 3/32 x 3/4 | | 1304H 2228M | Bolt, Hub Key, Woodruff |
| 44 45 | 101356L 104360X | Rod, Clutch Idler, Flat | | 74760720 105706X | Bolt, Hex Head 7/16-14 x 1-1/4 Bearing, Idler |
| 46 47 | 121358X | Retainer, Spring | 99 | 9858M1 | Key, Woodruff |
| 48 | 19131413 121360X | Washer 13/32 x 7/8 x 13 Gauge Retainer, Belt | 101 | | Actuator, Interlock Switch Drum, Brake |
| 49 50 | 104577X STD523710 | Adapter Bolt, Hex Head 3/8-16 x 1 Grade 5 | 102 | STD541410 633A109 | Locknut #10-24 |
| 51 | 17190516 | Screw, Hex Head, Thread Cutting | | 2751R | Assembly, Gearshift Lever Clip Fuel Line |
| 52 | STD522507 | 5/16-18 x 1 Bolt, Hex Head 1/4-20 x 3/4 | NOTE | E: All component of the second | ent dimensions given in U.S. inches 4 mm |

20 HP TRACTOR - - MODEL NUMBER 917.250051

STEERING ASSEMBLY



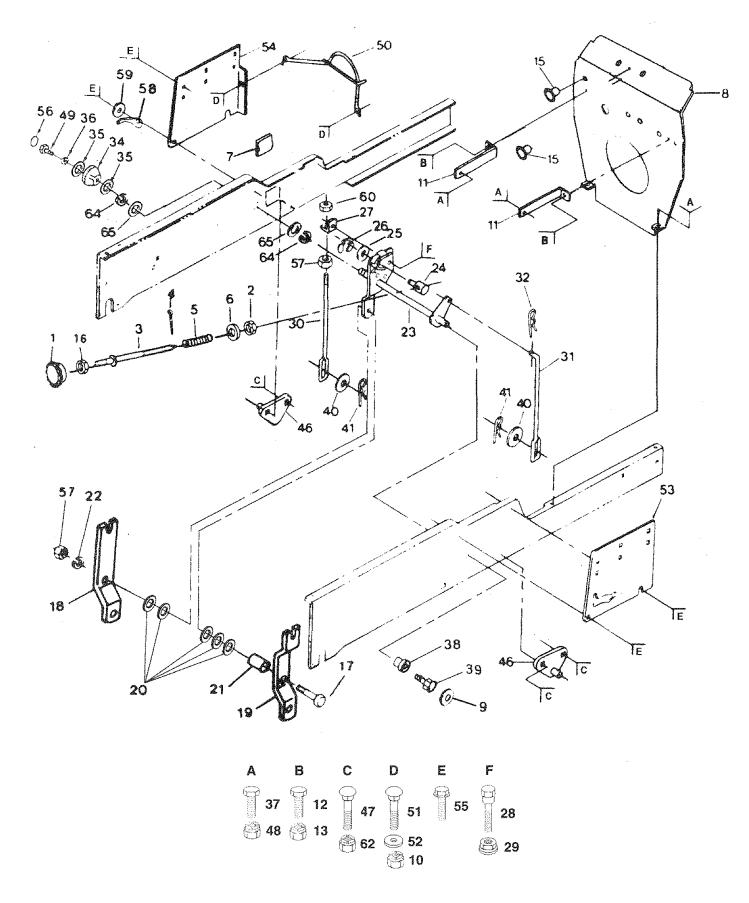
20 HP TRACTOR - - MODEL NUMBER 917.250051

STEERING ASSEMBLY

| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|----------|------------------------|--|----------------------|-----------------------|--|
| 6 7 | 106045X | Spindle, R.H. | 45 | 19171416 | Washer 17/32 x 7/8 x 16 Gauge |
| 8 | 6266H 12000029 | Bearing, Axle Klip, Ring | 46 | 72110622 | Bolt, Carriage 3/8-16 x 2-3/4 |
| 9 | 5284J | Bracket, Axle | 47 48 | 121235X 106042X018 | Spacer Coto Chit |
| 10 | STD523707 | Bolt, Hex 3/8-16 x 3/4 | 49 | 17720408 | Cover, Gate, Shift Screw, Hex Washer Head, Thread |
| 11 | 73680600 | Nut, Crownlock 3/8-16 | .0 | | Cutting 1/4-20 x 1/2 |
| 12 | 137094 | Axle, Front (Includes Key No. 13) | 50 | 19131212 | Washer 13/32 X 3/4 X 12 Gauge |
| 13 14 | 1309H | Bearing Sanda Sanda Frank | 51 | 100710L | Insert, Steering Wheel |
| 15 | 136518 74781044 | Spacer, Bearing, Axle, Front Bolt, Hex 5/8-11 x 2-3/4 Grade 5 | 52 | 74780880 | Bolt, Hex 1/2-13 x 5 |
| 17 | 73681000 | Nut, Crownlock 5/8-11 | 53 54 | 73680800 19172610 | Nut, Crownlock 1/2-13 Washer 17/32 x 1-5/8 x 10 |
| 18 | 6855M | Fitting, Grease | 60 | STD541037 | Nut, Hex 3/8-16 |
| 19 | 106046X | Spindle, L.H. | 61 | 5213J | Bracket, Frame Front |
| 20 | 120424X | Sector Assembly | 62 | 73680500 | Nut, Crownlock 5/16-18 |
| 21 | 110497X | Link, Drag | 63 | 137563 | Support, Battery |
| 22 23 | STD551137 STD541137 | Washer, Lock 3/8 Nut, Hex 3/8-24 | 66 | 124557X011 | Dashplate |
| 24 | 5292J | Bushing, Bellcrank | 70 71 | 109850X | Joint, Tie Rod, R.H. Thread |
| 25 | 108137X | Bellcrank | 72 | 109851X 7919J | Joint, Tie Rod, L. H. Thread Rod, Tie |
| 26 | 19292016 | Washer 29/32 x 1-1/4 x 16 Gauge | 73 | 73700600 | Nut, Hex, Jam 3/8-24 L.H. |
| 27 | 109849X | Rod, Tie | 74 | STD541337 | Nut, Hex, Jam 3/8-24 R.H. |
| 28 | 74520628 | Bolt, Hex_Fin_3/8-16 UNC x 1-3/4 | 75 | STD533107 | Bolt, Carriage 5/16-18 x 3/4 |
| 30 31 | 102439X | Bracket, Support, Steering | 76 | 121749X | Washer 13/32 x 1-1/4 x 16 Gauge |
| 32 | 104239X 72110608 | Bearing, Flanged Bolt, Carriage 3/8-16 x 1 Grade 5 | 77 | 121748X | Washer 25/32 x 1-1/4 x 16 Gauge |
| 33 | 101274N | Support, Steering | 82 83 | STD523710 100207K | Bolt, Hex 3/8-16 x 1 Grade 5 |
| 34 | 17490612 | Screw, Hex Washer Head, Thread | 85 | 120199X | Clip 3/8 Tube |
| | | Rolling 3/8-16 x 3/4 | 86 | 121177X | Collar |
| 35 | 102458X | Shaft, Steering | 87 | 101496X | Spacer, Split |
| 36 | 12000034 | Klip, Ring | 90 | 121748X | Washer 25/32 x 1-5/8 x 16 Gauge |
| 37 38 | 121021X 100711L | Wheel, Steering | 91 | 121232X | Cap, Spindle |
| 39 | 19133808 | Adapter, Steering Washer | 92 | 74180412 | Screw, Machine 1/4-20 x 3/4 |
| 40 | 121050X | Sleeve, Steering | 93 94 | 19091216 73510400 | Washer 9/32 x 3/4 x 16 Gauge |
| 41 | 9038R | Bearing | 9 4 95 | 4171R | Nut, Hex, Keps 1/4-20 Clip |
| 42 | 105519X | Dash, Lower | - | | , and the second |
| 43 | 120028X | Dash | NOT | E: All compon | ent dimensions given in U.S. inches. |
| 44 | 105525X | Bracket, Support, Dash | | 1 inch = 25. | 4 mm |

20 HP TRACTOR - - MODEL NUMBER 917.250051

LIFT ADJUSTMENT



20 HP TRACTOR - - MODEL NUMBER 917.250051

LIFT ADJUSTMENT

| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|----------|--------------------|--|------------|------------------------|--|
| 1 | 138057 | Knob, Inf 3/8-16 | 32 | 4939M | Retainer, Spring |
| 2 | 110807X | Nut, Special | 34 | 123934X | Scale, Height Indicator |
| 3 | 110811X | Rod, Adjust, Lift | 35 | 19112410 | Washer 11/32 x 1-1/2 x 10 Gauge |
| 4 5 | STD570907 2876H | Pin, Cotter 3/32 x 1/2 | 36 37 | STD551131 STD523107 | Washer, Lock |
| 6 | 19131016 | Spring Weeker 13/33 v 5/3 v 16 Cours | 38 | 105624X | Bolt, Hex Head 5/16-18 x 3/4 Hub, Lift Shaft |
| 7 | 121794X | Washer 13/32 x 5/8 x 16 Gauge Cover, Access | 39 | STD523710 | Bolt, Hex Head 3/8-16 x 1 |
| 8 | 127808 | Shield, Heat, Rear | 46 | 105501X | Bracket, Suspension, Mower |
| 9 | 109412X | Cap, Spring | 47 | STD533707 | Bolt, Carriage 3/8-16 x 3/4 |
| 10 | STD541431 | Nut, Crownlock 5/16-18 | 48 | STD541431 | Nut, Crownlock 3/8-16 |
| 11 | 128278 | Brace, Heat Shield | 49 | 74780516 | Bolt, Hex Head 5/16-18 x 1 |
| 12 | STD522505 | Bolt, Hex 1/4-20 x 1/2 Grade 5 | 50 | 126651X | Guard, Belt, Engine |
| 13 | 73680400 | Nut, Crownlock 1/4-20 | 51 | STD533110 | Bolt, Carriage 5/16-18 x 1 |
| 15 | 110436X | Grommet, Split | 52 | 19111610 | Washer 11/32 x 1 x 10 Gauge |
| 16 | STD541237 | Nut, Hex, Jam 3/8-16 UNC | 53 | 121045X | Panel, Side, RH |
| 17 | 74520628 | Bolt 3/8-16 x 1-3/4 Grade 5 | 54 | 121046X | Panel, Side, LH |
| 18 | 5948J | Bracket, Lift, LH | 55 | 17490608 | Bolt, Hex Washer Head, Thd., Roll. |
| 19 | 5947J | Bracket, Lift, RH | | 4000051/ | 3/8-16 x 1/2 |
| 20 | 19172410 | Washer 17/32 x 1-1/2 x 10 Gauge | 56 | 123935X | Plug, Hole |
| 21 | 5949J | Tube .384 x 1-1/2 x 15/16 | 57 58 | STD541037 | Nut, Hex 3/8-16 |
| 23 24 | 124217X 110810X | Shaft, Lift | 59 | 123933X505 120529X | Pointer, Height Indicator |
| 25 | 19151216 | Trunnion, Depth Stop | 60 | STD541437 | Washer, Nylon .44 x .75 x .032 |
| 26 | 12000037 | Washer 15/32 x 3/4 x 16 Gauge Klip Ring | 62 | STD541437 | Locknut, Hex, Washer Insert 3/8-16 Nut, Centerlock 3/8-16 |
| 27 | 7594J | Bracket, Lift, LH | 64 | 12000022 | E-Ring |
| 28 | 7901J | Bolt, Shoulder | 65 | 19292016 | Washer 29/32 x 1-1/4 x 16 Gauge |
| 29 | STD541237 | Nut, Hex, Flange 1/4-20 | ~~ | | Tracile. Loron K 1 117 X 10 dauge |
| 30 | 7596J | Link, Lift, LH | NOT | F. All compon | ent dimensions given in U.S. inches. |
| 31 | 105503X | Link, Lift, RH | s a wee' R | 1 inch = 25. | .4 mm |

20 HP TRACTOR - - MODEL NUMBER 917.250051

TRANSAXLE 1 10 78[°] 50-3 70

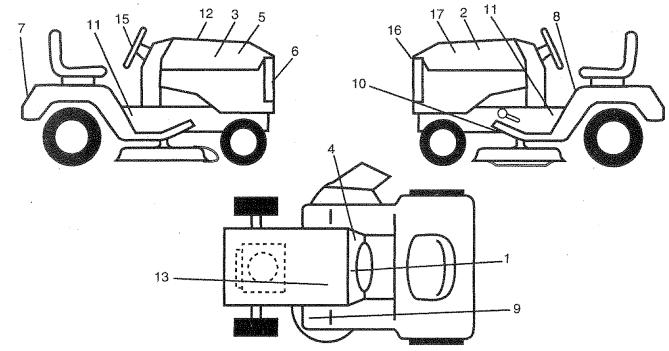
20 HP TRACTOR - - MODEL NUMBER 917.250051

TRANSAXLE

| | / PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|----------|-----------------|--|---------------|-------------------|---|
| 1 | 4197R | Axle Shaft | 51 | 1529R | Needle Bearing |
| 2 | 12000034 | Retaining Ring | 52 | 8119M | Needle Bearing |
| 3 | 4199R | Final Drive Gear | 53 | 4220R | Thrust Bearing Race |
| 4 | 4216R | Differential Gear | 54 | 4209R | 3rd Reduction Pinion, Low |
| 5 | 4215R | Differential Pinion | 55 | 4213R | 4th Reduction Gear |
| 6 | 4217R | Differential Carrier | 56 | 4442R | 3rd Reduction Pinion Spacer |
| 7 | 6256H | Axle Thrust Washer | 57 | 4195R | 2nd Reduction Gear Shaft |
| 8 | 74020652 | Bolt, Hex Head 3/8-24 x 3-1/4 | 58 | 4214R | Final Drive Pinion |
| 9 | 7392M | (1" Thread Length) Steel Ball | 59 | 4194R | 1st Reduction Gear Shaft |
| 10 | 137261 | Spring Shift Fork Detent | 60 61 | 7528R 4208R | 1st Reduction Shaft Spacer |
| 11 | 4985R | Shift Fork, High-Low Range | 62 | | 3rd Reduction Plnion HIgh 2nd Reduction Gear |
| 12 | 6266H | Thrust Bearing Race | 63 | 7398H | Needle Bearing |
| 13 | 4212R | 4th Reduction Pinion | 64 | 4203R | Low Speed Gear and 2nd |
| 14 | 4196R | 3rd Reduction Gear Shaft | • • | | Reduction Pinion Cluster |
| 15 | 6276H | Snap Ring, Crescent Type | 65 | 4204R | Reverse Gear |
| 16 | 633A63 | High-Low Range Gears | 66 | 2898J | Key, Hi-Pro 1/8 x 17/32 |
| 17 | 8118M | Needle Bearing | 67 | 4926H | Snap Ring, Crescent Type |
| 18 | 8740H1 | Sintered Iron Bearing | 68 | 4205R | Intermediate Speed Gear |
| 19 | 122238X | Shift Fork Shaft, High-Low Range | | 4206R | High Speed Gear |
| 20 | 4218R | Differential Pinion Spacer | 70 | 1370H | Thrust Bearing Race |
| 21 22 | 6252H1 7810H | Differential Pinion Bushing | 71 | 633A69 | Intermediate and High Speed |
| 23 | 6262H | Gripco Centerlock Nut 3/8-24 Shift Fork, R.H. | 70 | 2001 | Cluster Pinions |
| 24 | 7393R | Oil Seal | 72 73 | 208J 4201R | Input Shaft |
| 25 | 992R1 | Sintered Iron Bearing | 74 | 12000002 | Low Speed Pinion E-Ring |
| 26 | 6216H | Shift Fork Shaft | 75 | 1153R | Reverse Idler Gear |
| 27 | 4986R | Shift Fork, L.H. | 76 | 7392H | Reverse Idler Thrust Washer |
| 28 | 122254X | Shift Shaft, High-Low Range | 77 | 3990H | Needle Bearing |
| 29 | 6269H | Oil Seal | 78 | 73220500 | Nut, Hex 5/16-18 |
| 30 | 5855H | Pressure Relief Valve | 79 | 1167R | Sealing Washer |
| 31 | 137976 | Gearcase, Reverse Idler Shaft and | 80 | 73360700 | Nut, Hex, Jam 7/16-20 |
| | | Bearings, R.H. (Includes Key No.'s | 81 | 6270H | Oil Seal |
| 32 | 6277H | 17,18, 25, 33, 50, 63, 76, 77 & 82) Dowel Pin | 82 84 | 7384H 5384J | Reverse Idler Shaft Gearshift Lever, Bent |
| 33 | 4225R | Needle Bearing | 85 | 2978J | Gearshift Cap |
| 34 | 7396H | Thrust Bearing Race | 86 | 633A85 | Gearshift Ball Cover and Pin |
| 35 | 4198R | 4th Reduction Gear Shaft | 87 | 8739H1 | Shift Lever Guide Ball, Keyed |
| 36 | 4200R | 4th Reduction Gear Spacer | 88 | 4924H | Spring |
| 37 | 7395H | Thrust Bearing Race | 89 | 19151516 | Washer 15/32 x 15/16 x 16 Gauge |
| 38 | 121878X | Gearcase Gasket | 90 | 110542X | Shift Mechanism Seal |
| 39 | 137974 | Gearcase and Bearings, L.H. | 91 | 19181511 | Washer 9/16 x 15/16 x 12 Gauge |
| | | (Includes Key Numbers 18, 25, 49, | 92 | 75J | Gearshift Gate and Reinforcement |
| 40 | 13320400 | 50 (2), 51 and 52) Pipe Plug 1/2-14 N.P.T. | 93 94 | 6274H 76020412 | Shift Ball Cover Gasket Cotter Pin 1/8 x 3/4 |
| 41 | 74780526 | Bolt, Hex 5/16-18 UNC x 1-5/8 | 95 | 10040500 | Washer, Lock 5/16 |
| 45 | 6271H | Oil Seal | 96 | 74760514 | Bolt, Hex Head 5/16-18 UNC x 7/8 |
| 46 | 13060200 | Pipe Plug 1/4-18 N.P.T. | 97 | 633A109 | Gearshift Lever Assembly |
| 47 | 74780524 | Bolt, Hex 5/16-18 x 1-1/2 Grade 5 | 98 | 137982 | Transaxle Assembly (Less Brake |
| 48 | 10040500 | Washer, Lock, Extra Heavy 5/16 | | | Drum and Shift Lever) |
| 49 50 | 4895H | Needle Bearing | Ø € New miles | P** A U | |
| 50 | 4222R | Needle Bearing | NUI | 1 inch = 25 | ent dimensions given in U.S. inches |
| | | | | 1 11011 = 20 | . ^ 111111 |

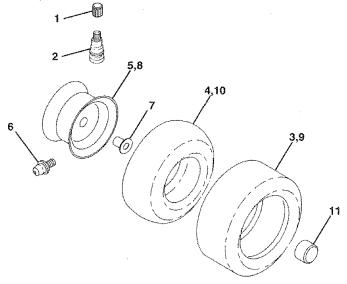
20 HP TRACTOR - - MODEL NUMBER 917.250051

DECALS



| KEY NO. | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|------------|-------------|-------------------------------------|-----|-------------|---------------------------------|
| 1 | 136794 | Decal, Dash, Operating Instructions | 9 | 4900J | Decal, Clutch/Brake |
| 2 | 128491 | Decal, Hood, Stripe, L.H. | 10 | 131283 | Decal, V-Belt, Drive |
| 3 | 138292 | Decal, Hood, Stripe, R.H. | 11 | 130860 | Decal, Chassis, Speed/Deck Size |
| 4 | 138834 | Decal, YT/GT Dash | 12 | 133644 | Decal, Maint. Cust. Sears |
| 5 | 133354 | Decal, Side Panel, R.H. | 13 | 138047 | Decal, Battery |
| 6 | 105806X | Decal, Logo Grille | 15 | 132265 | Decal, Steering Wheel Insert |
| 7 | 128314 | Decal, Fender | 16 | 132270 | Decal, Grill, Stripe |
| 8 | 137537 | Decal, Caution | 17 | 138048 | Decal, Side Panel, L.H. |
| | | | * * | 139404 | Manual, Owner's |

WHEELS & TIRES

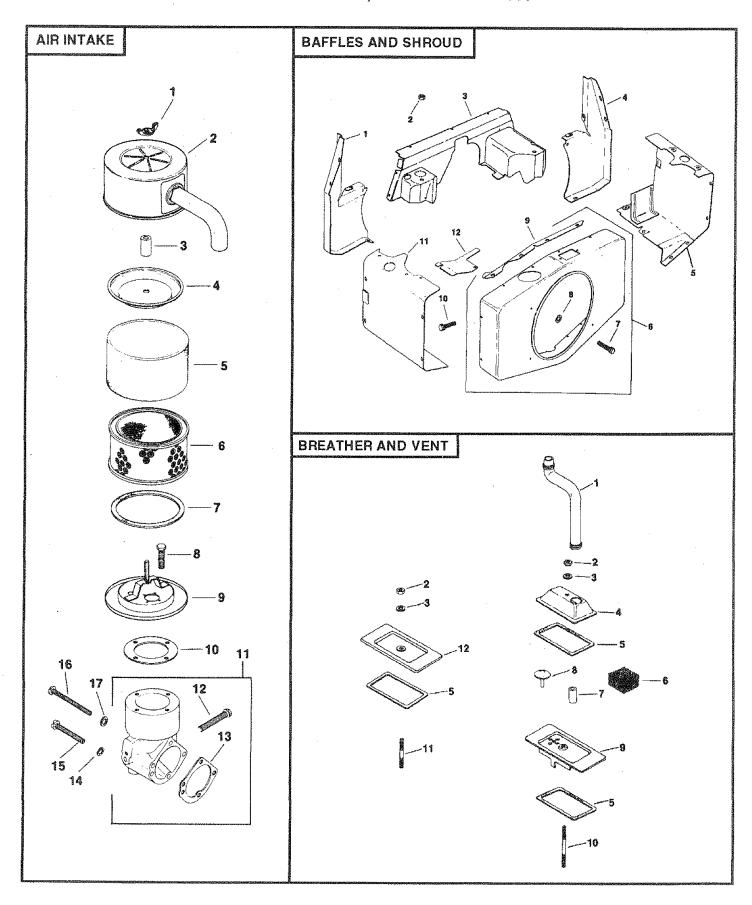


| KEY NO. | PART NO. | DESCRIPTION |
|------------|-------------|-------------------------------|
| 4 | 59192 | Cap, Valve |
| 2 3 | 65139 | Stem, Valve |
| 3 | 105588X | Tire, Rear |
| 4 | 7154J | Tube, Rear Tire |
| | | (Optional, Service Item Only) |
| 5 | 3635R | Rim Assembly, Rear |
| 6 | 278H | Fitting, Grease (Front Only) |
| 7 | 9040H | Bearing, Flange (Front Only) |
| 8 | 122974X | Rim Assembly, Front |
| 9 | 106230X | Tire, Front |
| 10 | 8134H | Tube, Front Tire |
| | | (Optional, Service Item Only) |
| 11 | 104757X | Cover, Axle |
| | | |

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

SERVICE NOTES

20 HP TRACTOR - - MODEL NUMBER 917.250051



20 HP TRACTOR - - MODEL NUMBER 917.250051

KOHLER ENGINE - MODEL NUMBER M20QS, TYPE NUMBER 49634

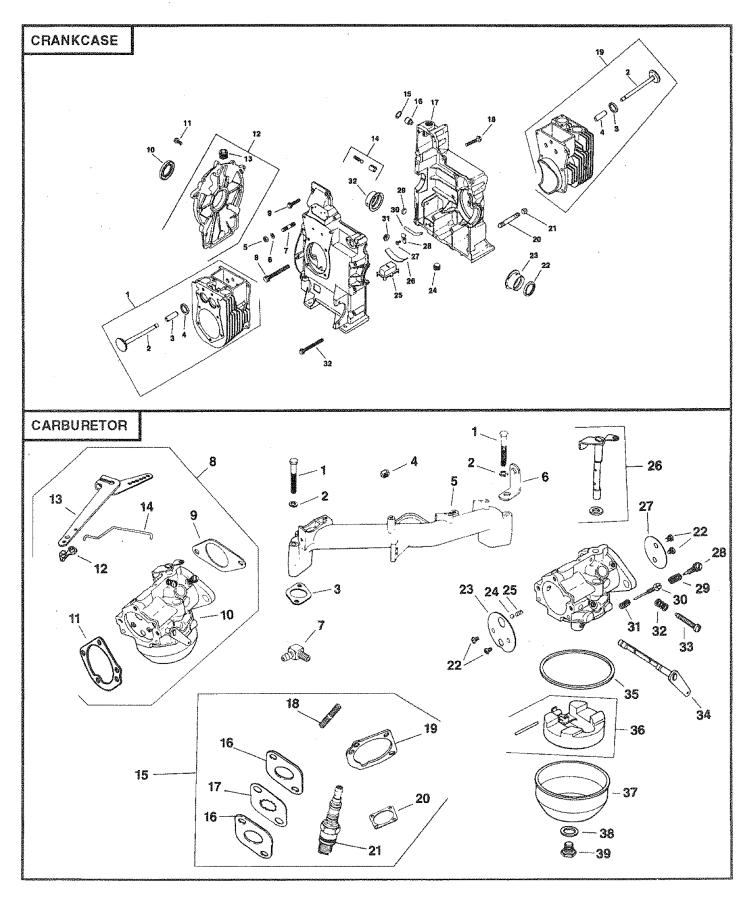
| | | | | | • | · · |
|------------|--------------------------------------|--|--|---|---|--|
| AIR INTAKE | | | BAFFLES & SHROUD | | | |
| | | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
| | 1 2 3 4 5 6 7 8 | X-276-7 52 096 36 231032 52 082 04 45 083 01 45 083 02 237423 X-67-98 | Wing Nut 1/4-20 Cover, Air Cleaner Seal, Element Cover Cover, Air Cleaner Element Pre-Cleaner Element, Air Cleaner Seal, Air Cleaner Cover Screw, Hex Washer Head | 1 2 3 4 5 6 | 52 281 23 X-82-2 52 282 01 52 281 05 52 063 36 52 755 71 52 086 11 | Duct, Air, #1 Side Nut 5/16-18 (2) Cover, Air Duct Duct, Air, #2 Side Baffle, #1 Cylinder Head Kit, Blower Housing (Includes Key Numbers 7 and 9) Screw, Self-Tapping |
| | 9 10 11 | 52 201 06 277093 52 754 01 | #10-32 x 9/16 (4) Base, Air Cleaner Gasket, Air Cleaner Base Kit, Elbow (Includes Key Numbers 12 and 13) | 8 9 10 | 52 468 16 52 217 01 X-67-83 | 1/4-20 x 5/8 (6) Washer, Flat 1/4 (2) Support, Upper Housing Screw, Hex Washer Head |
| | | 52 086 11 25 041 06 X-22-9 X-50-57 | Screw, Hex Čap 1/4-20 x 5/8 Gasket, Elbow Washer, Lock #10 (2) Screw, Machine, Round Head | 11 12 | 52 063 30 52 063 01 | 1/4-20 x 7/16 (23) Baffle, #2 Cylinder Head Baffle, #2 Cylinder Top |
| | 16 | X-50-37 | #10-32 x 1-1/2 (2) Screw, Machine, Round Head | | ATHER & VEN | |
| | 17 | X-25-79 | #10-32 x 2-1/4 Washer, Plain #10 | | PART NO. | DESCRIPTION |
| | | ILLUSTRATED 25 113 15 52 113 43 |) Decal, Air Cleaner Decal, Air Cleaner | 1 2 3 4 5 6 7 8 9 10 | 52 326 05 X-81-1 X-25-12 52 096 08 52 055 01 231419 52 032 04 52 462 01 52 096 22 275220 X-352-39 | Hose, Breather Nut, Hex 1/4-20 (2) Washer, Plain 1/4 (2) Cover, #1 Upper Cylinder Valve Gasket, Cover (3) Filter, Breather Seal, Breather Valve, Breather Cover, #1 Lower Cylinder Valve Stud, #1 Cylinder Valve Cover 1/4-20 x 3-1/4 Stud, #2 Cylinder Valve Cover 1/4-20 x 2-1/4 |

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

Cover, #2 Cylinder Valve

12 52 096 18

20 HP TRACTOR - - MODEL NUMBER 917.250051



20 HP TRACTOR - - MODEL NUMBER 917.250051

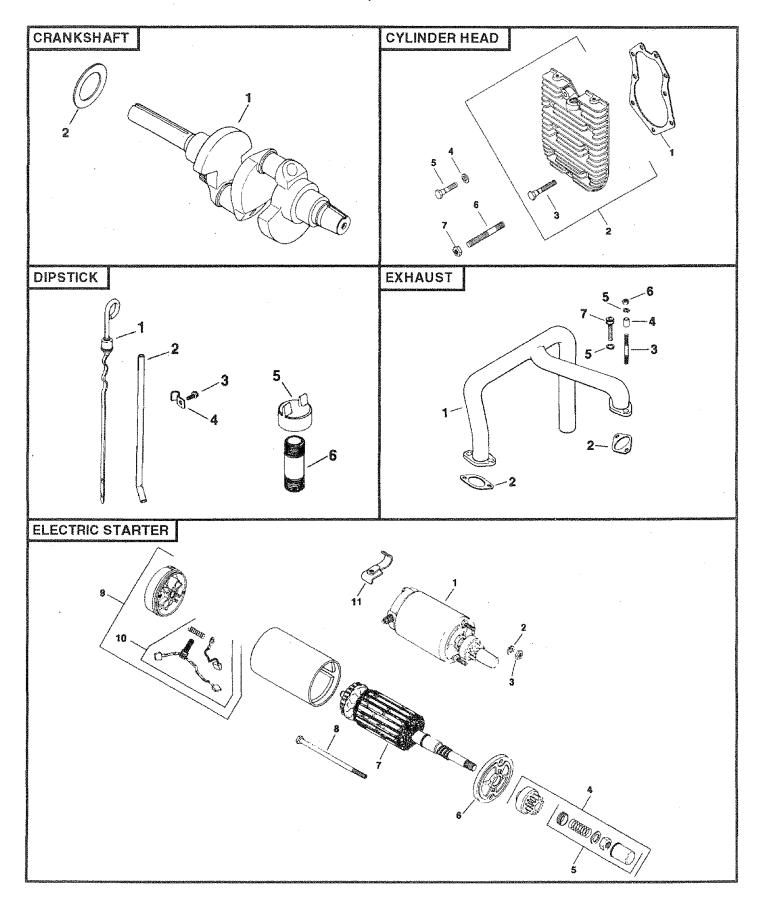
KOHLER ENGINE - MODEL NUMBER M20QS, TYPE NUMBER 49634

| CRANKCASE | | | CARBURETOR | | |
|-----------|------------------------|--|------------|------------------------|---|
| | PART NO. | DESCRIPTION | | / PART NO. | DESCRIPTION |
| 1 | 82 755 19 | Kit, #2 Cylinder Barrel | 1 | X-6-8 | Screw, Hex Cap 5/16-18 x 2-3/4 (4) |
| 2 | 52 016 06 | (Includes Key Numbers 2 thru 4) Valve, Exhaust | 2 3 | X-21-1 52 041 09 | Washer, Lock 5/16 (4) Gasket, Intake (2) |
| 3 | 52 316 06 | Guide, Valve (2) | 4 | X-77-2 | Nut 5/16 (2) |
| 4 | 52 031 01 | Insert, Valve Seat (2) | 5 | 52 164 10 | Manifold, Intake |
| 5 6 | X-82-2 52 468 12 | Nut, Hex 5/16-18 (12) | 6 | 52 445 02 | Strap, Lifting (2) |
| 7 | 52 072 12 | Washer, Flat 5/16 (12) | 7 | 25 155 02 | Connector, Hose |
| , | JE 012 12 | Step Stud 5/16-18 x 3/4, 3/8-16 x 5/8, 2" Long (12) | 8 | 52 853 27 | Kit, Carburetor with Gasket |
| 8 | 25 086 13 | Screw, Hex Flange | 9 | 071000 | (Includes Key Numbers 9 thru 14) |
| • | 20 000 10 | 3/8-16 x 3-5/8 (2) | 10 | 271030 52 053 58 | Gasket, Carburetor |
| 9 | 25 086 10 | Screw, Hex Flange | 10 | or | Carburetor Assembly (Information Only - Not Available Separately) |
| | | 5/16-18 x 1-1/2 (3) | | 52 053 63 | (Includes Key Numbers 22 thru 39) |
| 10 | X-583-5 | Seal, Oil, Rear | 11 | 25 041 06 | Gasket, Air Cleaner |
| 11 | X-802-9 | Screw, Washer Head | 12 | 25 158 11 | Bushing, Governor Linkage (2) |
| | | 5/16-18 x 1 (9) | 13 | 52 186 06 | Arm, Governor |
| 12 | 52 755 57 | Kit, Closure Plate | 14 | 82 755 07 | Kit, Governor Linkage |
| 40 | V 75 00 | (Includes Key Number 13) | | | (Includes Key Numbers 16 thru 21) |
| 13 | X-75-23 | Plug, 1/8 N.P.T.F. | 15 | 82 755 24 | Kit, Carburetor Baffle |
| 14 15 | 52 755 50 X-269-43 | Kit, Oil Relief | 40 | 074000 | (Includes Key Numbers 16 thru 21) |
| 16 | 52 078 05 | Ring, Retaining Shaft, Governor | 16 | 271030 | Gasket, Carburetor (2) |
| 17 | 02 070 00 | Crankcase (Service with Short | | 52 063 40 | Baffle, Carburetor |
| ., | | Block, Part Number 52 522 77) | | 41 072 19 25 041 06 | Stud 5/16-18 x 1-1/4 (2) Gasket, Air Cleaner Elbow |
| 18 | 25 086 12 | Screw, Hex Flange 5/16-18 x 2 (2) | | 277093 | Gasket, Air Cleaner |
| 19 | 82 755 18 | Kit, #1 Cylinder Barrel | | 52 132 02 | Spark Plug (2) |
| | | (Includes Key Numbers 2 thru 4) | | 25 086 27 | Screw, Throttle and Choke Plate (4) |
| 20 | 12 136 07 | Nipple, Pipe | | 25 146 03 | Plate, Choke |
| 21 | 12 173 03 | Cap, Pipe | 24 | 25 194 01 | Ball, Choke, Friction |
| 22 | 52 032 10 | Seal | 25 | 25 089 03 | Spring, Choke, Friction |
| 23 | 52 030 10 | Bearing, Sleeve, Standard (2) | 26 | 52 144 18 | Shaft, Throttle with Lever and Seal |
| | 52 030 11 52 030 12 | Bearing, Sleeve .010" (2) | 27 | 25 146 02 | Plate, Throttle |
| 24 | X-75-32 | Bearing, Sleeve .020" (2) | 28 | 25 368 01 | Needle, Idle Fuel Adjust |
| 25 | 52 095 03 | Plug, Hex, ctsk. 3/8 N.P.T.F. (2) Housing, Oil Pickup | | 25 089 02 25 086 26 | Spring, Idle, Fuel |
| 26 | 52 237 02 | Clamp, Spring | | 25 089 04 | Screw, Idle Speed Adjust Spring, Idle Speed |
| 27 | X-67-64 | Screw, Hex Washer Head | | 25 089 02 | Spring, Idie Speed Spring, Main Fuel |
| | | #10-32 x 7/16 | | 25 368 03 | Needle, Main Fuel |
| | 52 237 05 | Clamp, Tube | | 52 090 12 | Lever, Choke |
| 29 | X-702-15 | Plug, Cup 5/16 | | 25 041 04 | Gasket, Bowl |
| 30 | 52 123 10 | Tube, Dipstick | 36 | 25 757 09 | Kit, Float |
| 31 | 52 139 08 | | | 25 104 01 | Bowl, Fuel |
| | 52 032 10 | Seal, Oil, Front | | 25 041 03 | Gasket, Bowl Retainer Screw |
| 33 | 25 086 11 | Screw, Hex Flange | 39 | 25 100 05 | Screw, Bowl Retainer |
| | | 5/16-18 x 3-1/2 (8) | NOT | ILLUSTBATED | |

NOT ILLUSTRATED
-- 25 757 11 Kit, Carburetor Repair

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

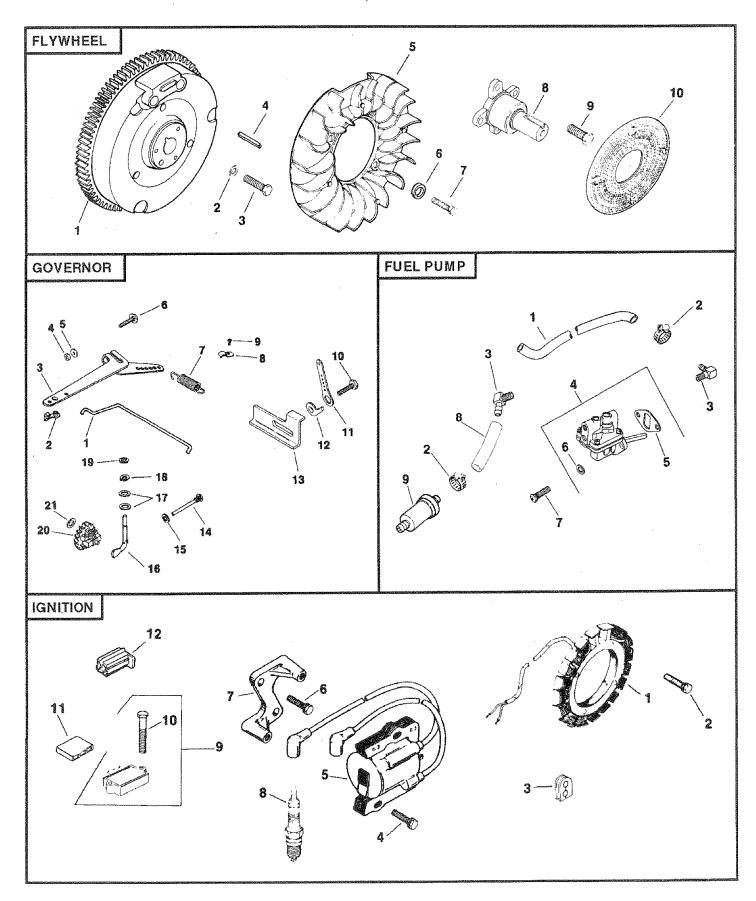
20 HP TRACTOR - - MODEL NUMBER 917.250051



20 HP TRACTOR - - MODEL NUMBER 917.250051

| CRANKSHAFT | | | | ELECTRIC STARTER | | |
|--|---|---|-------------------|---|---|--|
| | ' PART NO. | DESCRIPTION | KEY F | PART | DESCRIPTION | |
| 1 2 | 52 014 76 52 468 03 52 468 04 52 468 05 | Crankshaft Washer, Thrust .119/.122 (A.R.) Washer, Thrust .128/.131 Washer, Thrust .137/.140 (A.R.) | 2 X 3 X 4 5 | 52 098 06 <-20-1 <-81-1 52 755 05 52 755 08 | Starter Assembly (Includes Key Numbers 4 thru 10) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive (Includes Key Number 5) Kit, Drive Parts | |
| CAF | INDER HEAD | | | | Cap, Drive End Armature | |
| | PART NO. | DESCRIPTION | 8 5 | 52 211 03 52 227 07 | Bolt, Thru 1/4-20 x 6-7/8 (2) Cap, Commutator End (Includes Key Number 10) | |
| 1 2 | 52 041 20 52 755 78 | Gasket, Head (2) Kit, Cylinder Head (2) (Includes Key Number 3) | | 52 755 15 52 126 09 | Kit, Brush Bracket, Mounting | |
| 3 4 5 | 25 086 07 220534 41 086 02 | Screw, Hex Machine 5/16-18 x 2 (4) Washer, Plain 5/16 (18) Screw, Hex Head 5/16-18 x 1-1/2 (8) | 5 | LUSTRATED 52 357 01 55 450 03 |) Lubricant, Starter Tag, Caution | |
| 6 7 | 52 072 15 X-82-2 | Stud 5/16-18 x 2 (6) Nut, Hex 5/16-18 (6) | NOTE: | : All compone 1 inch = 25.4 | ent dimensions given in U.S. inches 4 mm | |
| DIPS | STICK | | | | • | |
| | PART NO. | DESCRIPTION | | | | |
| 1 2 3 4 5 6 EXH | 52 038 04 52 123 09 X-67-64 52 154 01 52 173 01 46 136 02 AUST | Dipstick, Blade 11-5/16 Tube, Oil Level Screw #10-32 x 3/8 Clip, Tube Cap, Pipe Pipe, Oil Fill 3/4 I.P. x 2-1/2 | | | | |
| | PART NO. | DESCRIPTION | | | | |
| 1 2 3 4 5 6 7 | 52 164 17 52 041 14 52 072 13 52 112 08 X-21-1 X-82-2 X-55-6 | Manifold Gasket, Exhaust (2) Stud 5/16-18 x 4 (2) Spacer (2) Washer, Lock 5/16 (4) Nut 5/16-18 (2) Screw, Hex Socket Head 5/16-18 x 3/4 (2) | | | ; 1 | |

20 HP TRACTOR - - MODEL NUMBER 917.250051



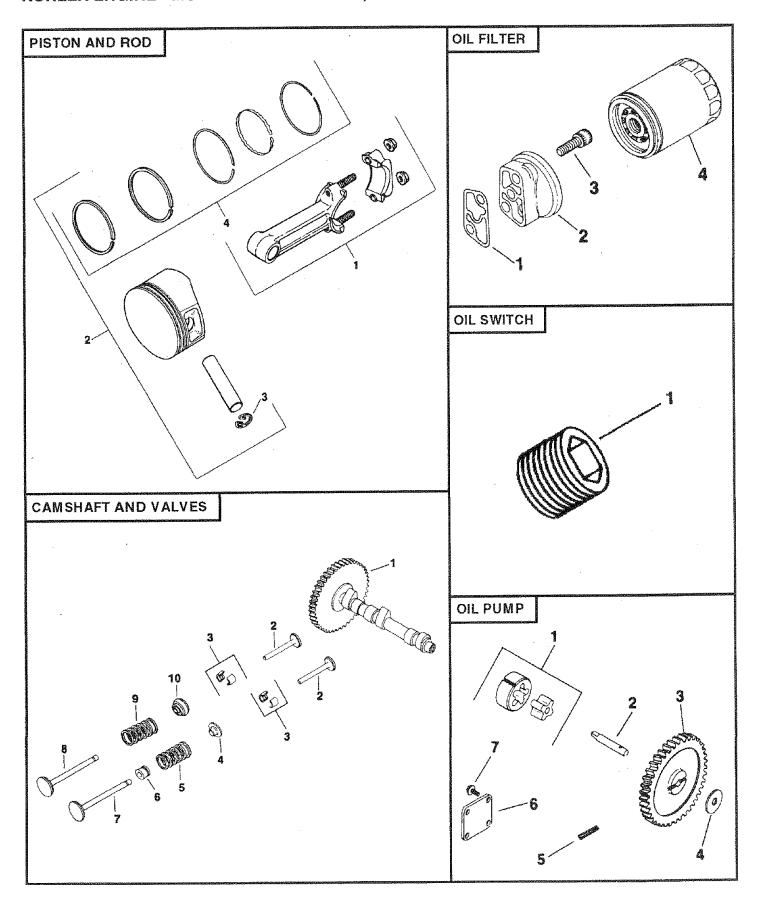
20 HP TRACTOR - - MODEL NUMBER 917.250051

KOHLER ENGINE - MODEL NUMBER M20QS, TYPE NUMBER 49634

| FLY | WHEEL | | FUE | FUEL PUMP | | |
|----------------------------|--|--|----------------------------|---|--|--|
| | / PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION | |
| 1 2 3 4 5 | 52 025 36 52 468 15 25 086 24 X-286-17 25 157 01 | Flywheel Washer, Plain Screw, Hex Machine 3/8-24 x 1-1/4 Key, Square 3/16 x 7/8 Fan | 1 2 3 4 | 52 559 01 | Line, Fuel, 6-3/4" Long Clamp, Hose (4) Connector, Hose (2) Pump, Fuel Assembly (Includes Key Numbers 5 and 6) | |
| 6 7 | 25 112 04 25 086 21 | Spacer (4) Screw, Hex Washer Head 1/4-20 x 5/8 (4) | 5 6 7 | 25 041 05 X-25-63 47 086 08 | Gasket, Fuel Pump Washer, Plain 1/4 (2) Screw, Pozidriv, Truss Head | |
| 8 9 10 | 237373 X-159-2 25 162 02 | Shaft, Front Drive Screw, Hex Cap 3/8-16 x 1 (4) Screen, Grass | 8 9 | 25 353 03 25 050 03 | 1/4-20 x 5/8 (2) Line, Fuel, 13-1/2" Long Filter, Fuel | |
| GO | GOVERNOR | | | IGNITION | | |
| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION | |
| 1 2 3 4 5 6 | 82 755 07 25 158 11 52 186 06 X-81-1 X-25-72 52 211 04 52 091 04 | Kit, Governor Linkage Bushing, Governor Linkage (2) Arm, Governor Nut, Hex 1/4-20 Washer, Plain 1/4 Screw, Round Head, Square Neck 1/4-20 x 1 Spring, Governor | 1 2 3 4 5 6 | 237878 X-67-51 52 313 02 25 086 15 52 584 02 25 086 16 | Kit, Stator Screw, Hex Cap #10-24 x 3/4 (2) Grommet Screw, Hex Washer Head 1/4-20 x 1 (2) Module, Ignition Screw, Hex Washer Head 1/4-20 x 7/8 (2) | |
| 8 9 | 235778 X-67-97 | Clamp, Cable (2) Screw, Hex Washer Head | 7 8 | 52 126 08 51 132 02 | Bracket, Module Spark Plug (2) | |
| 10 | X-67-62 | #10-24 x 3/8 (2) Screw, Hex Washer Head | 9. | 25 755 03 | Kit, Rectifier-Regulator (Includes Key Number 10) | |
| 11 12 13 | 52 119 01 234614 52 531 02 | 1/4-20 x 3/4 Lever, Speed Control Stop, Governor Stop, High Speed | 10 11 12 | X-132-5 236602 236473 | Screw, Hex Cap 1/4-20 x 5/8 (2) Connector Connector | |
| 14 15 16 17 | 231355 X-25-12 52 078 04 X-25-102 | Pin, Governor Stop Washer, Plain 1/4 Shaft, Governor, Cross Washer, Plain (2) | NOT | ILLUSTRATEI 25 518 21 | D Lead, Red, Rectifier-Regulator (5", 14 Gauge, Uninsulated Push On Tab Terminals) | |
| 18 19 20 21 | X-269-28 X-25-63 A-235743-S 237022 | Retainer, Governor Washer, Plain 1/4 Kit, Governor Gear Washer | . - | 52 518 22 | Lead, Black, Module To Connector (12-1/2", 18 Gauge, Insulated Push On Tab, Uninsulated Push On Tab Terminals) | |

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

20 HP TRACTOR - - MODEL NUMBER 917.250051



20 HP TRACTOR - - MODEL NUMBER 917.250051

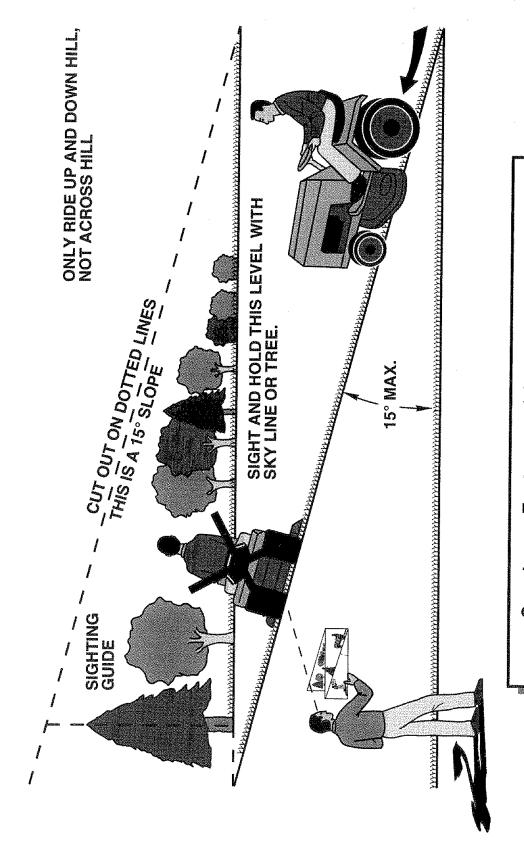
KOHLER ENGINE - MODEL NUMBER M20QS, TYPE NUMBER 49634

| PISTON & ROD | | | OIL | FILTER | | |
|--------------------------------------|---|--|------------------|--|---|--|
| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION | |
| 1 2 | 52 067 71 52 067 72 52 874 16 52 874 17 | Connecting Rod, Standard (2) Connecting Rod .010" (2) Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2) | 2 | 52 041 16 52 181 03 X-55-15 | Gasket, Oil Filter Adapter, Oil Filter Screw, Hex Socket Head 5/16-18 x 1-1/4 (2) | |
| | 52 874 18 52 874 19 52 874 20 | Piston with Ring Set .010" (2) Piston with Ring Set .020" (2) Piston with Ring Set .030" (2) Piston with Ring Set .030" (2) Retainer, Piston Pin (4) Ring Set, Standard and .003" (2) Ring Set .010" (2) Ring Set .020" (2) Ring Set .030" (2) | | 52 050 02 / OIL PRESSU | Oil Filter | |
| | 52 141 01 52 108 09 | | | PART NO. | DESCRIPTION | |
| | 52 108 10 52 108 11 52 108 12 | | 1 | X-75-23 | Plug, Pipe 1/8 N.P.T.F. | |
| | | | OIL PUMP | | | |
| CAMSHAFT & VALVES | | VEV | PART | DESCRIPTION | | |
| | PART NO. | DESCRIPTION | | NO. | DESCRIPTION | |
| 1 2 3 4 5 6 7 8 | 52 012 09 52 019 03 41 755 10 230011 25 089 01 52 032 13 52 017 07 52 016 06 | Camshaft Tappet (4) Kit, Retainer (4) Retainer, Intake Valve (2) Spring, Intake Valve (2) Seal, Intake Valve Stem (2) Valve, Intake (2) Valve, Exhaust (2) | 3 4 5 6 | 52 393 09 52 144 05 52 043 05 52 422 01 X-280-25 52 096 03 X-67-64 | Rotor Set Shaft, Oil Pump Gear, Oil Pump Spacer, Shim (A.R., Maximum of 2) Pin, Roll Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4) | |
| 9 10 | | Spring, Exhaust Valve (2) Rotator, Exhaust Valve (2) NO | NOT | ILLUSTRATED | | |
| | | | KEY NO. | PART NO. | DESCRIPTION | |
| | | | | 52 522 77 52 755 94 | Short Block Gasket Set | |
| | | | | RPM Settings: | Low Speed: 1150-1650 High Speed: 3325-3475 | |

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. 917.250051

HOW TO ORDER REPAIR PARTS

CREFTSMEN®

20.0 HP TWIN CYLINDER ELECTRIC START 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 GARDEN TRACTOR
- MODEL NUMBER 917.250051
- ENGINE MODEL NO. M20QS-49634
- PART NUMBER
- PART DESCRIPTION

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