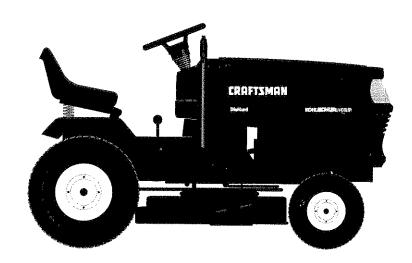
SEARS

MODEL NUMBER 917.251480 OWNER'S MANUAL

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



as per Norm, same as 944-606290



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

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



SAFETY RULES

Safe Operation Practices for Ride-On Mowers



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

I. GENERAL OPERATION

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

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

III. CHILDREN

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

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

IV. SERVICE

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



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



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



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

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

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

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

| • | |
|--------------------|---|
| MODEL NUMBER | 917.251480 |
| SERIAL NUMBER _ | |
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DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

PRODUCT SPECIFICATIONS

| | O CANALER PAREN |
|-------------------------------------|---|
| HORSEPOWER: | 18.5 |
| GASOLINE CAPACITY AND TYPE: | 3.5 GALLONS UNLEADED REGULAR |
| OIL TYPE (API-SF/SG): | SAE 30 (above 32°F) SAE 5W-30 (below 32°F) |
| OIL CAPACITY: | W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS |
| SPARK PLUG: (GAP: .025") | CHAMPION RV17YC |
| VALVE CLEARANCE: | INTAKE: .003"006" EXHAUST: .013"016" |
| GROUND SPEED (MPH): | Forward LO HI 1st 0.8 1.7 2nd 1.4 3.3 3rd 2.3 5.4 Reverse 0.9 2.1 |
| TRANSAXLE OIL CAPACITY AND TYPE: | 4 QUARTS SAE 30 API-SF/SG |
| TIRE PRESSURE: | FRONT: 14 PSI REAR: 10 PSI |
| CHARGING SYSTEM: | 15 AMPS @ 3600 RPM |
| BLADE BOLT TORQUE: | 30-35 FT. LBS. |
| MIADMINIO. This teacher | In an improved the am improved |

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

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

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

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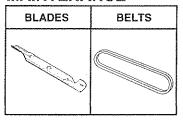
ACCESSORIES AND ATTACHMENTS

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

ENGINE

SPARK PLUG GAS CAN ENGINE OIL FUEL STABILIZER AIR FILTER

MAINTENANCE



PERFORMANCE

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

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

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

BUMPER protects front end of tractor from damage.

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

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

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

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

EASY OIL DRAIN VALVE makes oil changes easier, faster.

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

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

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

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

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

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

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

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

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

SNOWTHROWER has 42-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains and wheel weights and/or rear drawbar weight.)

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

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

SWEEPERS let you collect grass clippings and leaves.

TILLER has 8 hp engine to prepare seed beds, cultivate, and compost garden residue. Chain-drive transmission. Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path. (Requires sleeve hitch.) Or use 5 hp tow-behind TILLER with 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! Optional accessories for 5 hp tiller convert unit for dethatching, aerating, hilling...without tools.

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

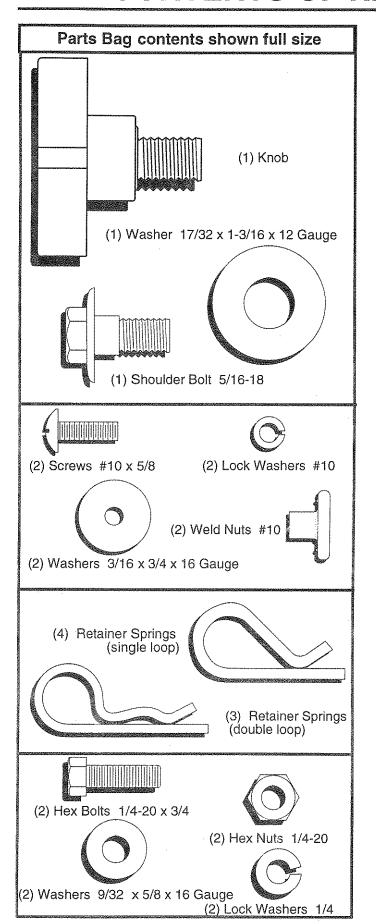
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. **Optional accessories include:**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

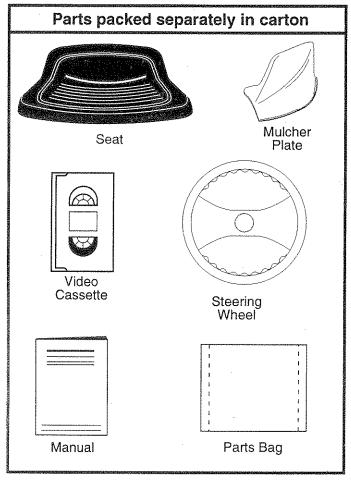
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

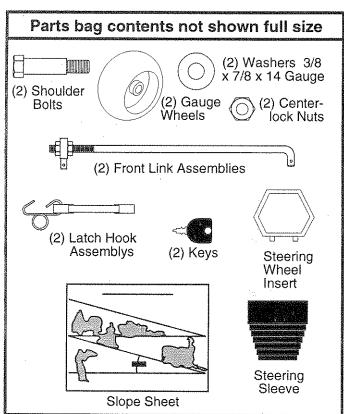
WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

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

CONTENTS OF HARDWARE PACK







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 proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

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

(2) 7/16" wrenches

Tire pressure gauge

(1) 1/2" wrench

Utility knife

(1) 9/16" wrench

3/4" socket with drive ratchet

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

IS TO ROLL OFF SKID.

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Remove mower and packing materials.
- 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 steering wheel adapter.
- Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill. **IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES** IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR

FIG. 1 pedal.

- TO ROLL TRACTOR OFF SKID (See Fig. 6)
- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.

CONNECT BATTERY (See Fig. 2)



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

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

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

Use terminal access doors for:

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

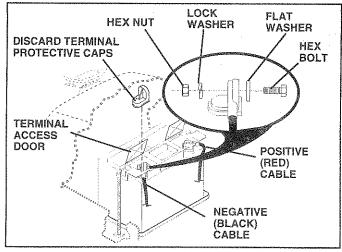


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat 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.

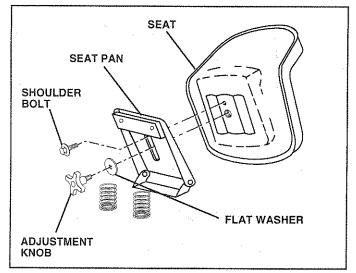


FIG. 3

INSTALL MOWER AND DRIVE BELT (See Figs. 4 and 6)

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

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

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

- Install one front link in top hole of the R.H. front mower bracket and R.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in L.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Place the L.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm.
- Slide left side of mower deck back and install the unattached front link in top hole of the L.H. front mower bracket. Retain with single loop retainer spring as shown.

- Place the R.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Retain both suspension arms to deck pins with double loop retainer springs.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Assemble gauge wheels (See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual).

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

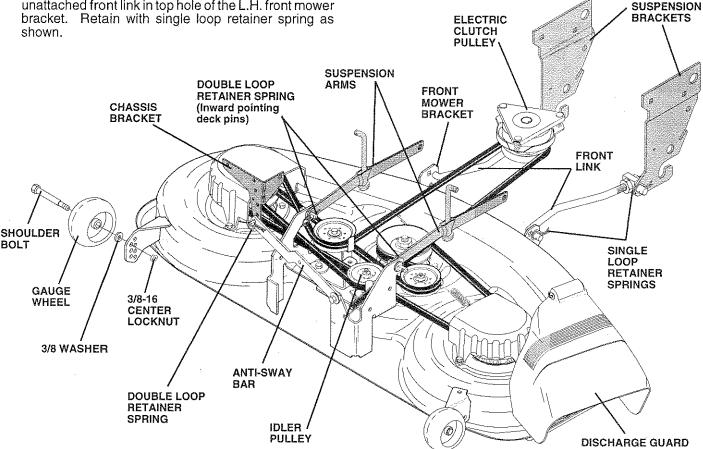


FIG. 4

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.

INSTALL MULCHER PLATE (See Figs. 5A and 5B)

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

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

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



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

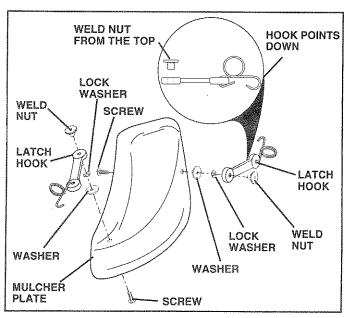


FIG. 5A

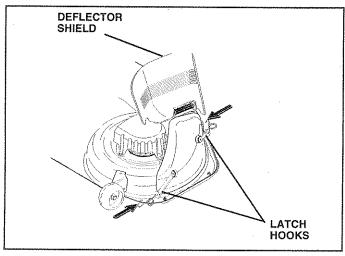


FIG. 5B

TO CONVERT TO BAGGING OR DISCHARGING

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

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

✓ CHECKLIST

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

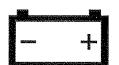
PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



CLUTCH



LIGHTS ON



LIGHTS OFF



FUEL



CHOKE



MOWER HEIGHT



DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



REVERSE



NEUTRAL



HIGH



LOW



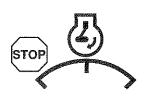
PARKING BRAKE



ATTACHMENT CLUTCH ENGAGED



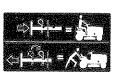
ATTACHMENT CLUTCH DISENGAGED

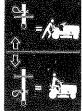


IGNITION



DANGER, KEEP HANDS AND FEET AWAY



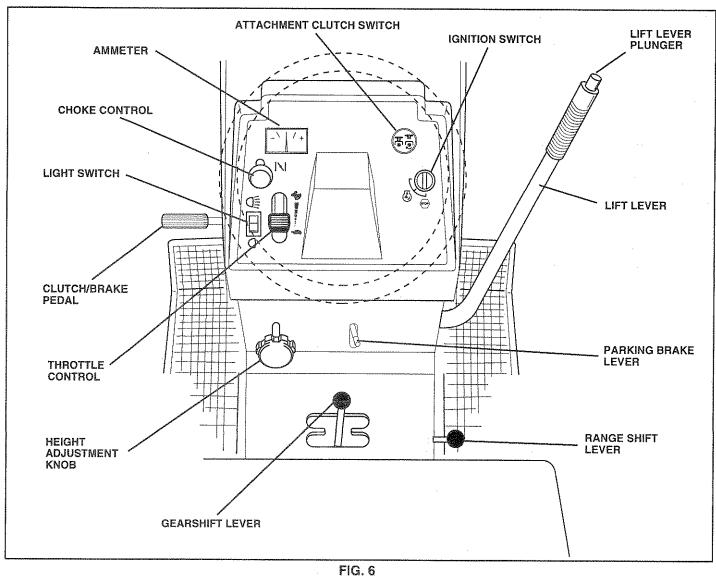


HYDROSTATIC FREE WHEEL (Hydro Models only)

KNOW YOUR TRACTOR

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

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



Our 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 LEVER - Used to raise and lower mower deck or other attachments mounted to your tractor.

LIFT LEVER PLUNGER - Used to release attachement lift lever when changing its position.

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

GEARSHIFT LEVER - Selects the speed and direction of tractor.

THROTTLE CONTROL - Used to control engine speed.

RANGE SHIFT LEVER - Allows high (H) or low (L) speed for all forward and reverse gears.

IGNITION SWITCH - Used to start and stop the engine.

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

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.

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.



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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 7)

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

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

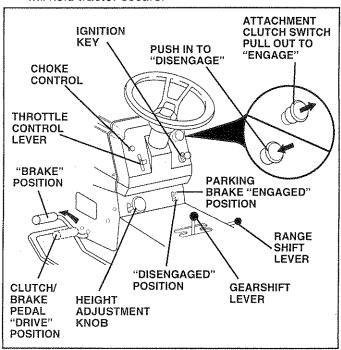


FIG. 7

STOPPING (See Fig. 7)

MOWER BLADES -

 Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

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

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

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

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



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

TO USE THROTTLE CONTROL (See Fig. 7)

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL (See Fig. 7)

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

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

TO MOVE FORWARD AND BACKWARD (See Fig. 7)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift 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 ADJUST MOWER CUTTING HEIGHT (See Fig. 7)

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

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

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

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

TO ADJUST GAUGE WHEELS (See Fig. 8)

Adjust gauge wheels with tractor on a flat level surface.

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

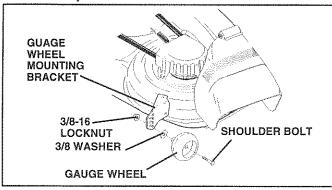


FIG. 8

TO OPERATE MOWER (See Figs. 6 and 7)

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

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



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

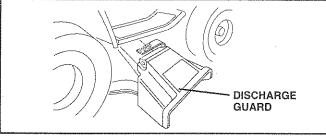


FIG. 9

TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down
- Avoid stopping or changing speed on hills.

- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking
- Move gearshift lever to 1st gear and range shift lever to low (L) 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.

TO TRANSPORT

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

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL (See Fig. 10)

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and 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.

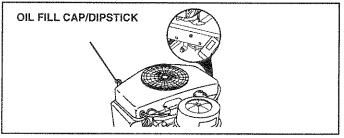


FIG. 10

ADD GASOLINE

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

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

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of 14 acids during storage. Acidic gas can damage the fuel

system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



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

TO START ENGINE (See Fig. 7)

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

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

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

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.

- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

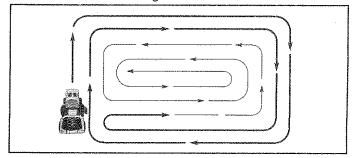
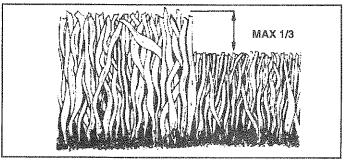


FIG. 11

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 12). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



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|--------------------|--|---|----------------|--|--------------|---------------|--|--------------------------|----------|-----|--------------------|------------|---------------|-----|
| SPERMINE | Check Brake Operation | V | | 8 | | | | | | | | - | | |
| THE REAL PROPERTY. | Check Tire Pressure | 4 | | Same of the same o | | | | | | | | | | |
| I | Check for Loose Fasteners | W | | | | | 6 7 | | • | | | | | |
| R | Sharpen/Replace Mower Blades | | | | 3 4 | | | | | | | | | |
| C | Lubrication Chart | | | | Bank . | | | | 8 | | | | | |
| Ť | Check Battery Level/Recharge | | | | 6 | | | | 1 | | | | | |
| 0 | Clean Battery and Terminals | | | | Barre | | | | Barbar . | | | | | |
| R | Check Transaxle Cooling | | | | L and | | | | | | | | | |
| WINDS CO. | Adjust Blade Belt(s) Tension | | | | | | 5 | | | | | | | |
| | Adjust Motion Drive Belt(s) Tension | | | | | | 1 5000 5 | | | | | | | |
| 200000 | Check Engine Oil Level | | 54645505551000 | No. | | | | AND THE PERSON NAMED IN | | | TOTAL POR SERVICES | | en-control of | |
| 20000000 | Change Engine Oil | | Santa | | 1,2,3 | | | | 8 | | | | | |
| | Clean Air Filter | | | | 2 | | | | | | | | | |
| N | Clean Air Screen | | | | 2 | | | | | | | | | |
| G | Inspect Muffler/Spark Arrester | | | | | 200 | | | | | | | | |
| | Replace Oil Filter (If equipped) | | | | | | 1,2 | | | | | | | |
| NE | Clean Engine Cooling Fins | | | | | | № 2 | | | | | | | |
| | Replace Spark Plug | | | | | | Santa de la constante de la co | Basella | | | | | | |
| (CANADA) | Replace Air Filter Paper Cartridge | | | | | | 1 2 | | | | | | | |
| No. | Replace Fuel Filter | | | | | | | 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.
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front axle pivot bolt to 35 ft.-lbs. maximum.
 Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

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

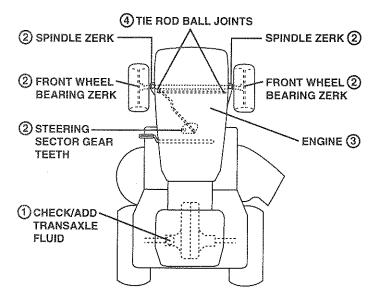
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

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

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 MOTOR OIL API SF/SG
- (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 unit 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.

BLADE CARE

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

BLADE REMOVAL (See Fig. 13)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

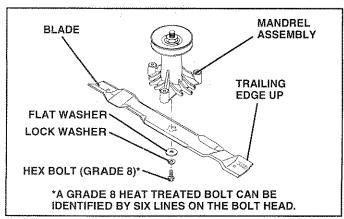


FIG. 13

TO SHARPEN BLADE (See Fig. 14)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground.
 If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

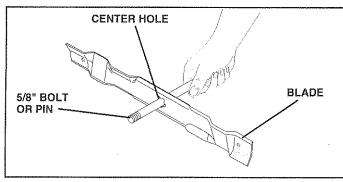


FIG. 14

V-BELTS

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

TRANSAXLE COOLING

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

CHECK TRANSAXLE OIL LEVEL (See Fig. 15)

- Block up rear axle securely.
- 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 motor oil, API-SF or SG. Replace filler plug.
- · Reassemble wheel to hub.
- For approximate capacity see "PRODUCT SPECIFI-CATIONS" on page 3 of this manual.

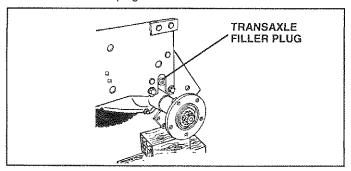


FIG. 15

BATTERY

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

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

TO CLEAN BATTERY AND TERMINALS

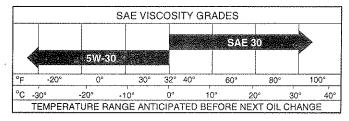
Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

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

ENGINE

LUBRICATION

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



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 (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL (See Fig. 16)

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

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

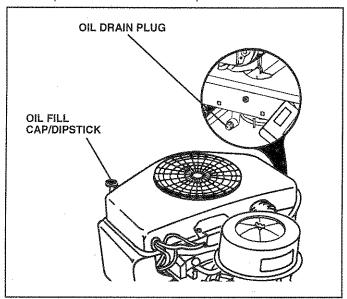


FIG. 16

CLEAN AIR SCREEN (See Fig. 17)

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

ENGINE COOLING FINS (See Fig. 17)

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).

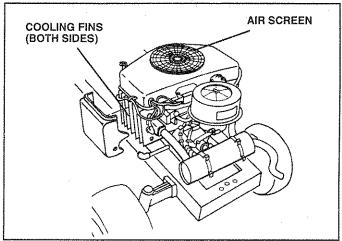


FIG. 17

AIR FILTER (See Fig. 18)

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.

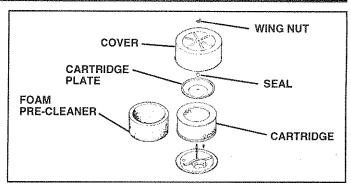


FIG. 18

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. 19)

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.

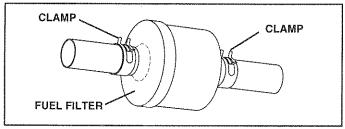


FIG. 19

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

TO REMOVE MOWER (See Fig. 20)

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

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

TO INSTALL MOWER

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

TO LEVEL MOWER HOUSING

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

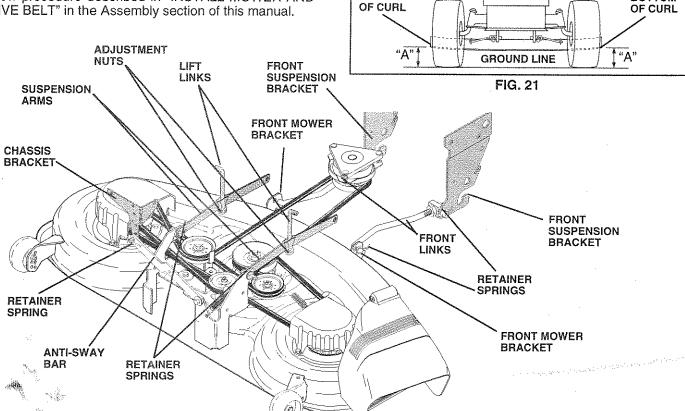
SIDE-TO-SIDE ADJUSTMENT (See Figs. 20 and 21)

- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 3/16".

BOTTOM

Recheck measurements after adjusting.



BOTTOM

OF CURL

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23)-IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE. To obtain the best cutting results, the mower housing should be adjusted so the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

 Before making any necessary adjustments, check that both front links are equal in length.

• If links are not equal in length, adjust one link to same length as other link.

 To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.

 When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

 To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.

 When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links

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

Recheck side-to-side adjustment.

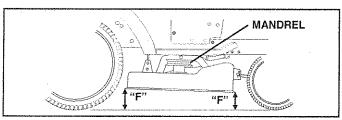


FIG. 22

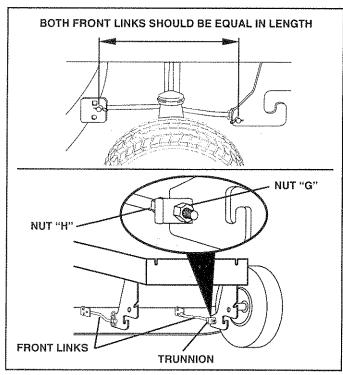


FIG. 23

TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 24) -

- Park tractor on a level surface. Engage parking brake
- Remove four screws from L.H. mandrel cover and remove cover.
- Roll belt over the top of L.H. mandrel pulley.
- · Remove belt from electric clutch pulley.
- · Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION (See Fig. 24) -

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

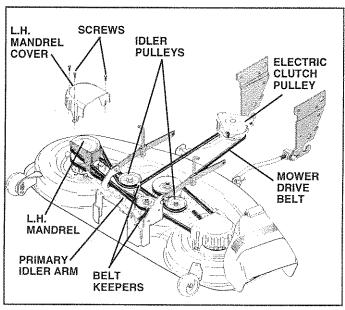


FIG. 24

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 25)

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove four screws from R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
- Carefully roll belt off R.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
- Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
- Reinstall mower to tractor (See "TO INSTALL MOWER" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

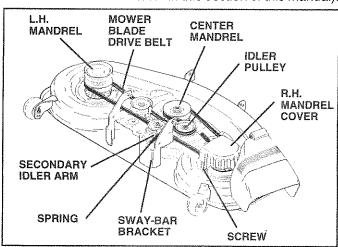


FIG. 25

TO ADJUST ATTACHMENT CLUTCH (See Fig. 26)

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by your nearest authorized service center/department.

- Make sure attachment clutch and ignition switches are in "OFF" position.
- Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut inside of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.

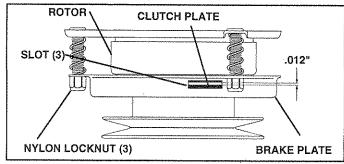


FIG. 26

TO ADJUST BRAKE (See Fig. 27)

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.

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

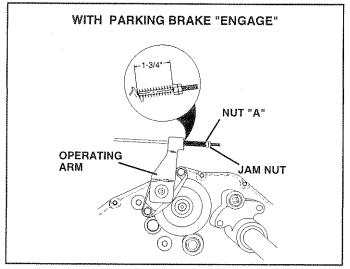


FIG. 27

TO REPLACE MOTION DRIVE BELT (See Fig. 28)

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

BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- · Make sure V part of belt engages V-idler.
- Place belt around transaxle pulley, beginning at top.
 V part of belt should engage transaxle pulley.
- Place long lower section of belt through loop in midspan belt keeper.
- Check to be sure belt is on proper side of all belt keepers.
- Reinstall mower drive belt onto electric clutch pulley.

IMPORTANT: CHECK BRAKE ADJUSTMENT.

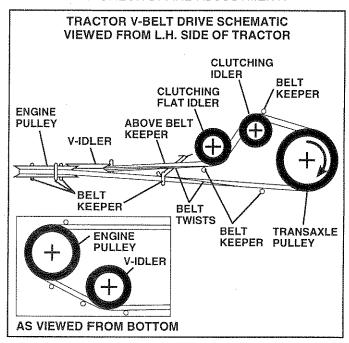


FIG. 28

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. 29) -

- 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. 29 and 30) -

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

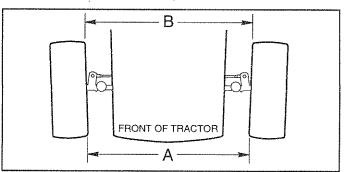


FIG. 29

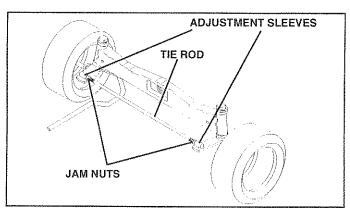


FIG. 30

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/department.

TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL (See Fig. 31) -

- 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.

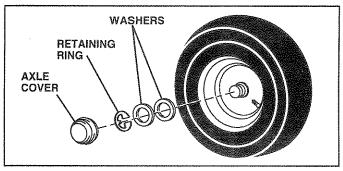


FIG. 31

REAR WHEEL -

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

TO START ENGINE WITH A WEAK BATTERY (See Figs. 32)



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 NEGA-TIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a panel bolt on the left side of the tractor, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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

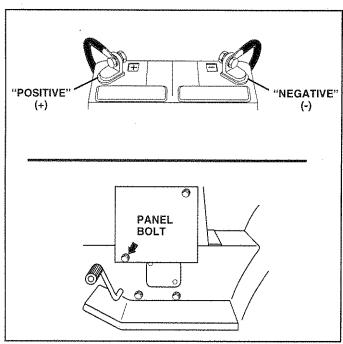


FIG. 32

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 33)

- While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort (for heavier attachments).
- Turn adjustment bolt counterclockwise for lighter attachments.
- Retighten jam nut against spring bushing.

IMPORTANT: DO NOT ADJUST FOR MAXIMUM SPRING TENSION WHEN USING LIGHT ATTACHMENTS SUCH AS A MOWER. ADJUST LIFT LEVER SPRING TO AID IN LIFTING ATTACHMENT. DO NOT OVERPOWER SPRING. WHEN REMOVING ATTACHMENT, ALWAYS ADJUST SPRING TENSION TO ITS LOWEST POSITION.

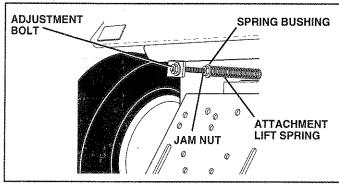


FIG. 33

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 34)

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

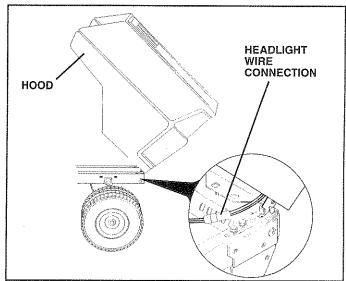


FIG. 34

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 35 and 36)

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

TO ADJUST CARBURETOR (See Fig. 37)

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

In general, turning the 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 is 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 (N) 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/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

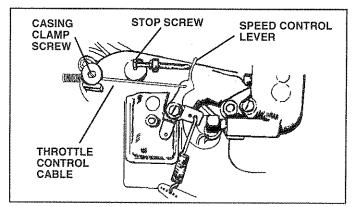


FIG. 35

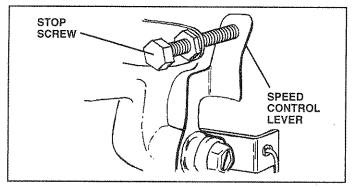
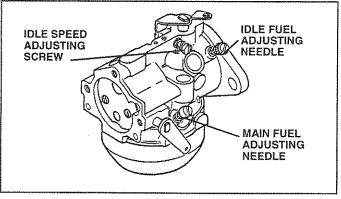


FIG. 36



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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

| PROBLEM | CAUSE | CORRECTION | | | | |
|----------------------------------|--|---|--|--|--|--|
| Will not start | 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 | 1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment. | 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. Corrous tery terminals. 6. Loose or us ged 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 | 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment. | 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. | | | | |

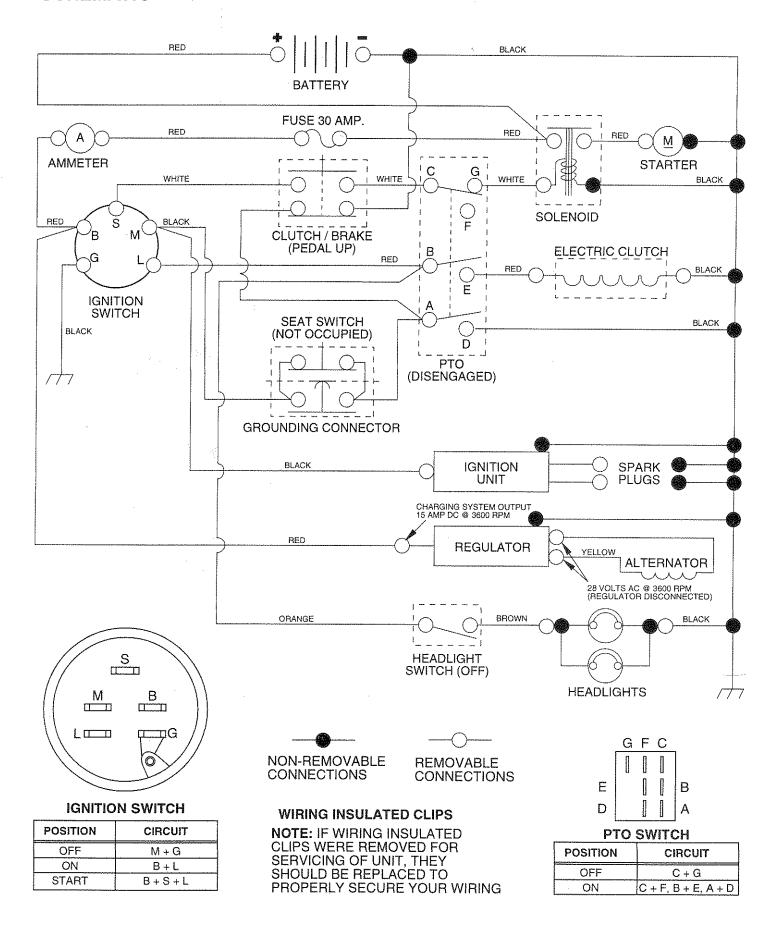
TROUBLESHOOTING POINTS

| 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. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. | | | | |
| Mower blades will not rotate | Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. | Remove obstruction. Replace mower drive belt. Replace idler pulley. 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. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | 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 mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. | | | | |
| Headlight(s) not working (if so equipped) | Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. 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. | | | | |
| | | | | | | |

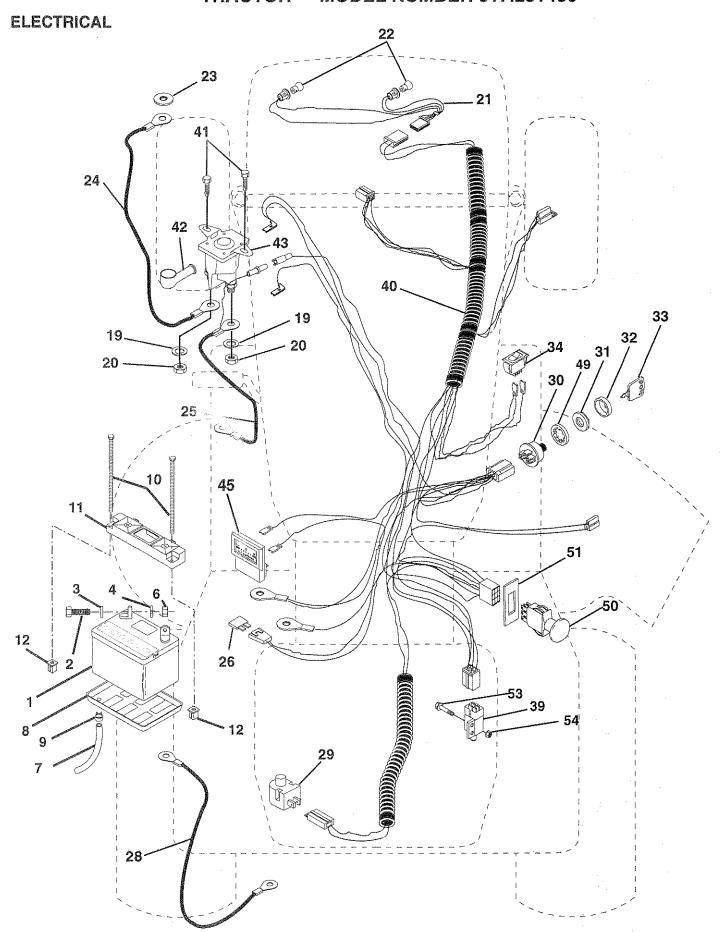
SERVICE NOTES

TRACTOR - MODEL NUMBER 917.251480

SCHEMATIC



TRACTOR - - MODEL NUMBER 917.251480



TRACTOR - - MODEL NUMBER 917.251480

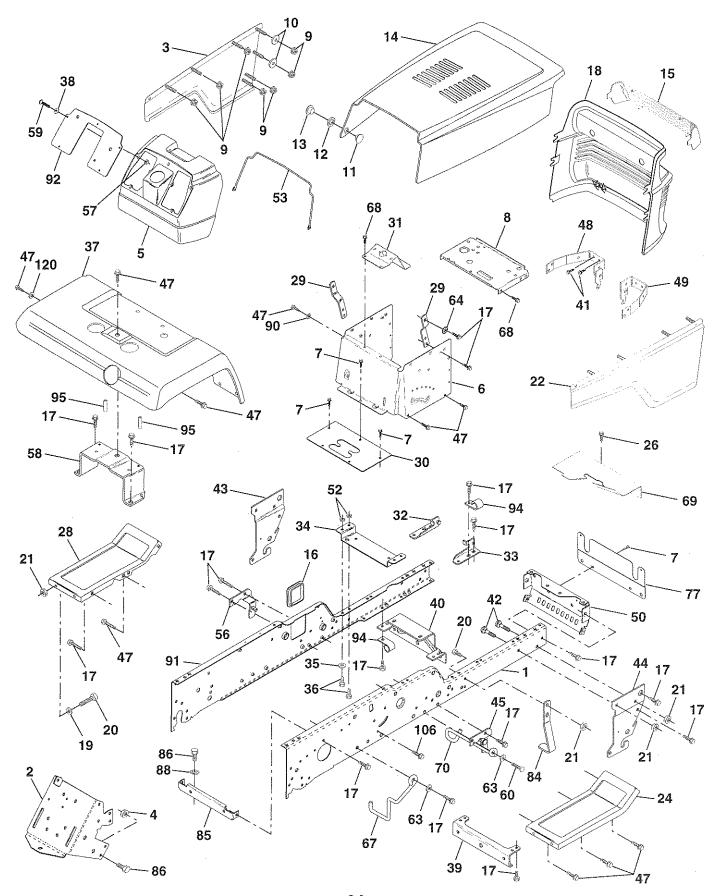
ELECTRICAL

| KEY NO. | | DESCRIPTION |
|----------------------------|---------------------------------|---|
| 1 2 3 4 6 7 | 146140 74760412 STD551125 | Battery Bolt Hex Head 1/4-20 x 3/4 Washer, Lock 1/4 |
| 4 | STD551025 | Washer 9/32 x 5/8 x 16 Ga |
| 5 7 | STD541025 7697J | Nut Fin Hex 1/4-20 Tube Plastic |
| 8 | 7603J | Tray, Battery |
| 9 | 109596X | Clamp, Hose |
| 10 | | Bolt 1/4-20 x 7.5 Zinc |
| 11 | 145209 145769 | Hold down Battery Dash Mount Nut Push Nylon 1/4" |
| | 10090400 | Washer, Lock 1/4 |
| 20 | 73350400 | Nut, Jam Hex 1/4-20 |
| 21 | 136850 | Harness Socket Light W/4152J |
| 22 | 4152J | Bulb Light |
| 24 25 | 4799J 146149 | Cable, Battery Cable, Battery |
| 26 | | Fuse |
| 28 | 4207J | Cable, Ground |
| 29 | | Switch, Plunger |
| 30 | 144921 | Switch, Ign |
| 31 32 | 140400 141226 | Nut, Ignition Switch Cover Switch Key |
| 32 33 | 140403 | Key, Ignition |
| 34 | 110712X | Switch, Light |
| 39 | | Switch, Interlock |
| 40 41 | | Harness Ign. Screw 1/4-20 x 1/2 |
| 42 | 17720408 131563 | Cover, Terminal |
| 43 | 145673 | Solenoid |
| 45 | 122822X | Ammeter |
| 49 | 11151000 | Washer, Lock Internal Tooth 5/8 |
| 50 51 | 11151000 146283 140405 | Switch, PTO Ring Retainer PTO |
| 51 53 | 71031008 | Screw Hex Washer Hd #10-32 x 1/2 |
| 54 | 73951000 | Nut Keps #10-32 |
| | | |

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

TRACTOR - - MODEL NUMBER 917.251480

CHASSIS AND ENCLOSURES



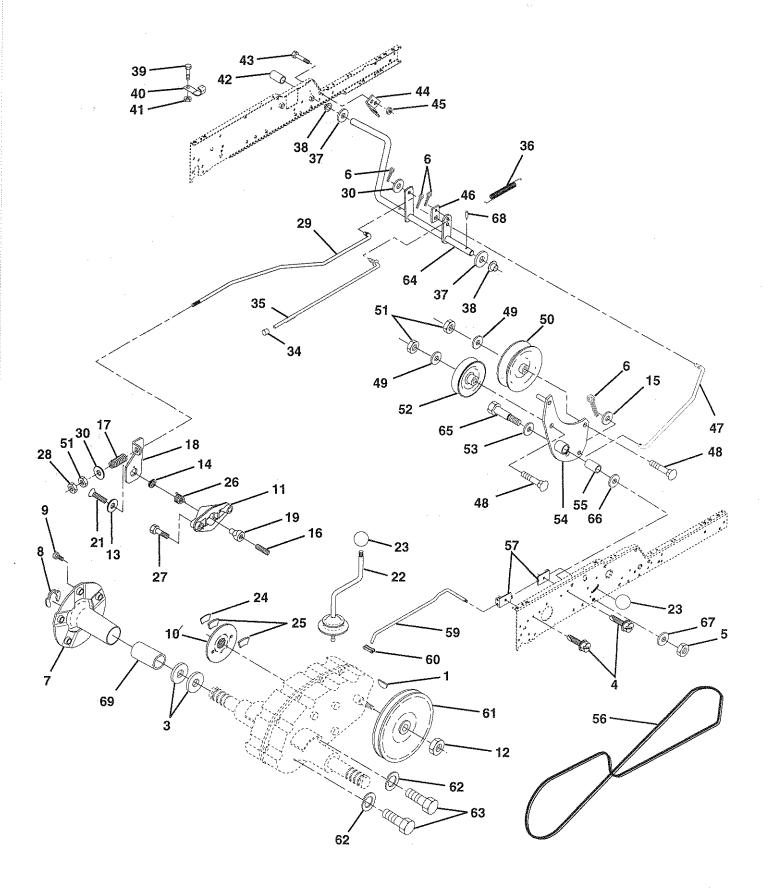
TRACTOR - - MODEL NUMBER 917.251480

CHASSIS AND ENCLOSURES

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|--|--|--|--|---|---|
| 1 2 3 4 5 6 7 8 9 10 1 12 3 14 5 6 7 8 9 10 1 12 12 12 12 12 12 12 12 12 12 12 12 1 | 150253 140506 136671X558 73680700 145203 150273 17720408 145166 108067X 19092016 137270 137269 137271 136673X558 136374 121794X 17490612 136373x428 19131312 74760616 73680600 136670X558 145243X558 17490512 145244X558 145349 145051X014 145183 141315 141314 142131 19111116 74780512 121642X558 19091216 | Rail, Frame RH Drawbar, Gt Panel Asm., Side LH Nut, Crown Lock Hex 7/16-14 Unc Dash, Plastic Black Dash Lower VGT One-Piece Screw, Thd Cut 1/4-20 x 1/2 Support, Dash 1-Pc. Battery Nut, Pal Washer 9/32 x 1-1/4 x 16 Ga. Rivet, Ratchet Male Washer, Nylon Rivet, Ratchet Female Hood Asm., Pnt Lens, Bar Clear Cover, Access Screw, Thdrol 3/8-16 x 3/4 Grille Washer 13/32 x 13/16 x 12 Ga. Bolt, Fin Hex 3/8-16 x 1 Nut, Crownlock 3/8-16 Unc Panel Asm., Side RH Footrest, RH Screw, Thdrol 5/16-18 x 3/4 Footrest, LH Bracket, Support Dash Saddle Bracket, Support 1-Pc Steering VGT Bracket Asm., Frame Pivot Lh Bracket Asm., Frame Pivot Rh Bracket, Engine Support Rear Washer 11/32 x 11/16 x 16 Ga. Bolt, Fin Hex 5/16-18 x 3/4 Fender, Pnt. Washer 9/32 x 3/4 x 16 Ga. | 41 42 43 44 45 47 48 49 52 53 55 55 55 56 66 67 77 48 56 68 99 91 92 94 95 120 120 120 120 120 120 120 120 120 120 | 17580408 72140608 136939 136940 138460 17490608 136814 136813 136575 73680500 137304 138461 73640400 137113 74180412 17490620 19131614 144283 140737 17490508 140022 137159 137308 140922 144911 74760716 10040700 11050600 150851 143485X013 100207K 105531X 138776 19131616 8022J | Screw Tap Tite 1/4-20 x 1/2 Bolt, Carriage 3/8-16 x 1 Bracket, Spnsn Front Lh Bracket, Spnsn Front Rh Bracket Asm., Susp Chassis Rh Screw Thdrol 3/8-16 x 1/2 Bracket Asm., Pivot Hood Lh Bracket Asm., Pivot Hood Rh Bracket, Chassis Front Nut, Crownlock 5/16-18 Rod, Support Hood Bracket Asm., Susp Chassis Lh Nut, Keps Hex 1/4-20 Bracket Asm., Fender Screw, Mach Cr 1/4-20 x 3/4 Screw Thdrol 3/8-16 x 1-1/4 Washer 13/32 x 1 x 14 Ga. Washer, Serrated Disc 13/32 x 1 Guide, Belt T/A Screw, Thd 5/16-18 x 1/2 Shield, Heat Guide, Belt Mid Span Shield, Front Stop, Over Center Mower Bracket, Support Transaxle Bolt, Fin Hex 7/16-14 Unc x 1 Washer, Lock Hvy HLCL. Spr. 7/16 Washer, Lock External Tooth 3/8 Rail, Frame Lh Plate, Silkscreen Dash Clip, Fuel Line Push Nut, Nylon Screw, Thdrol Hex Head Zinc Mwr Washer 13/32 x 1 x 16 Ga. Plug, Hole |
| 39 40 | 136961 142132 | Bracket, Axle Front Bracket, Support Axle/Engine | NUII | a: All compone 1 inch = 25. | ent dimensions given in U.S. inches 4 mm |

TRACTOR - - MODEL NUMBER 917.251480

GROUND DRIVE



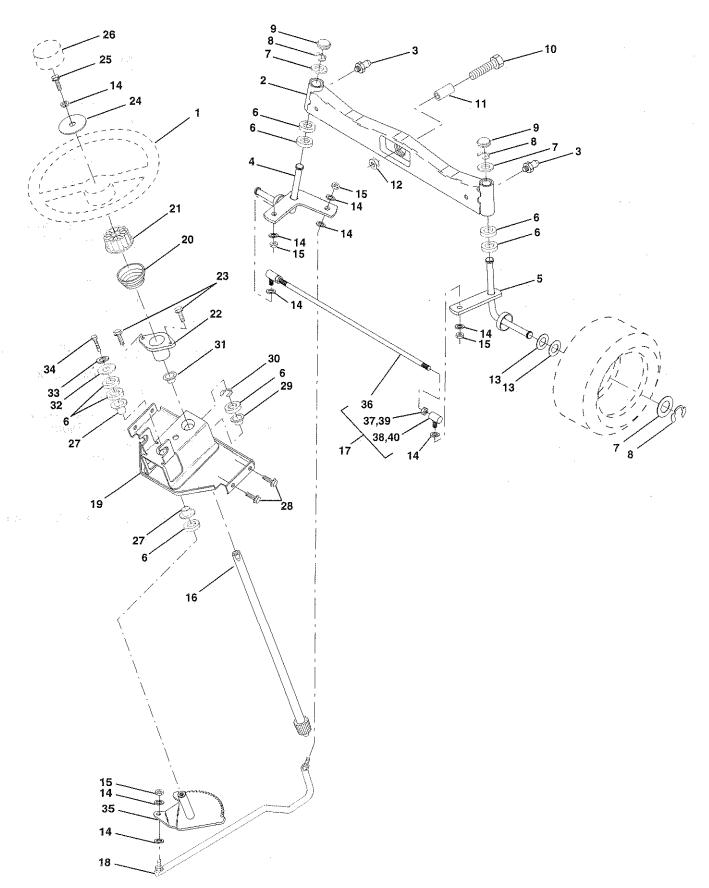
TRACTOR - - MODEL NUMBER 917.251480

GROUND DRIVE

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|------------|-------------|----------------------------------|------------|-------------------|---|
| 1 | 9858M1 | Key, Woodruff | 38 | 150035 | Nyliner |
| 3 | 7563R | Washer, Thrust, Axle | 39 | 74321016 | Screw, Fin. #10-24 x 1 |
| 4 | 17490508 | Screw, Thdrol. 5/16-18 x 1/2 Tyt | 40 | 5304J | Actuator, Interlock Switch |
| 5 | 73680600 | Nut, Crownlock 3/8-16 | 41 | 73631000 | Locknut #10-24 |
| 6 | 76020412 | Pin, Cotter | 42 | 8883R | Cover, Pedal |
| 7 | 149176 | Hub Asm. Wheel Rear | 43 | 74760412 | Bolt, Hex 1/4-20 x 3/4 |
| 8 | 12000034 | Klip, Ring | 44 | 104601X | Bracket, Interlock |
| 9 | 140080 | Bolt, Hub | 45 | 73800400 | Locknut w/Insert 1/4-20 |
| 10 | 142509 | Disc, Brake | 46 | 145170 | Retainer, Spring |
| 11 | 136927 | Yoke, Brake Disc | 47 | 138228 | Clutch Rod |
| 12 | 9204H | Locknut 1/2-20 | 48 | 72110614 | Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5 |
| 13 | 139419 | Washer, Special | 49 | 19131413 | Washer 13/32 x 7/8 x 13 Ga. |
| 14 | 138901 | Bushing | 50 | 131494 | Pulley, Idler, Flat |
| 15 | 19131316 | Washer 13/32 x 13/16 x 16 Ga. | 51 | 73800600 | Locknut, Hex 3/8-16 |
| 16 | 143012 | Set, Screw 1/4-28 x 3/4 | 52 | 139123 | Pulley, Idler, Grooved |
| 17 | 126909X | Spring | 53 | 207J | Washer, Hardened |
| 18 | 137104 | Lever, Brake | 54 | 138390 | Clutch, Arm Assembly |
| 19 | 136926 | Cam, Brake Disc | 55 | 105706X | Bearing, Idler |
| 21 | 23260412 | Screw, Flat Head 1/4-28 x 3/4 | 56 | 137153 | V-Belt V-Belt |
| 22 | 633A109 | Gearshift, Lever Assembly | 57 | 141756 | Bracket, Shift Rod, Hi-Lo |
| 23 | 106932X | Knob | 59 | 122253X | Shift Rod, Hi-Lo |
| 24 | 136925 | Support, Puck Brake | 60 | 122268X | Spring Clip, Connecting Link |
| 25 | 136923 | Puck, Brake Top | 61 | 137524 | Pulley, Transaxle |
| 26 | 137552 | Spring, Return | 62 | 10040700 | Washer, Lock 7/16 |
| 27 | 17490528 | Screw, Hex Wsh Thd. 5/16-18 x 1- | 63 | 74760720 | Bolt, Fin Hex 7/16-14 x 1-1/4 |
| | | 3/4 | 64 | 137649 | Shaft, Clutch/Brake Pedal |
| 28 | 73350600 | Nut, Hex Jam 3/8-16 | 65 | 67609 | Bolt, Shoulder |
| 29 | 137213 | Brake, Rod | 66 | 140296 | Washer, Hardened |
| 30 | 19131616 | Washer 13/32 x 1 x 16 Ga. | 67 | 19131312 | Washer, Flat |
| 34 | 124236X | Cap, Plunger | | 5142H | Pin, Roll |
| 35 | 137648 | Rod, Parking Brake | 69 | 136327 | Hub, Cover |
| 36 | 149412 | Spring, Drive Ground | A 1 ~ T | Pat All anamerica | want diamentana abana in 110 to the co |
| 37 | 121749X | Washer 25/32 x 1-1/4 x 16 Ga. | NOT | t: All compoi | nent dimensions given in U.S. inches 5.4 mm |

TRACTOR - - MODEL NUMBER 917.251480

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.251480

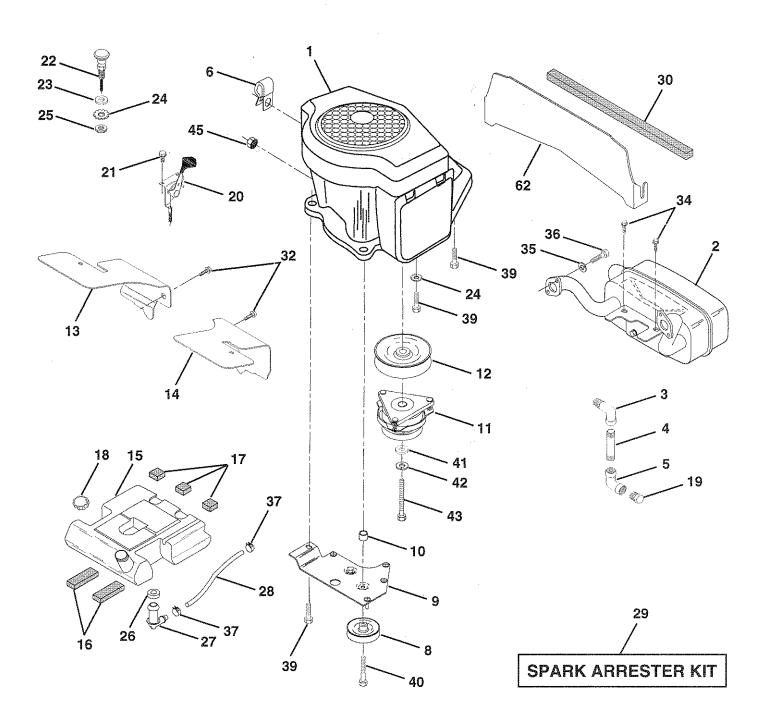
STEERING ASSEMBLY

| KEY NO. | | DESCRIPTION |
|--|--|---|
| 123456789011234567 | 121472X 137094 6855M 136960 136959 6266H 121748X 12000029 121232X 74781044 136518 73901000 121749X 10040600 73610600 145103 137347 | Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm., LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer, Brg. Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hlcl Spr 3/8 Nut, Fin Hex 3/8-24 Unf Shaft Asm., Steering |
| 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | 137155 146611 145182 100711L 1554J 17431008 19133808 74780616 126805X 3366R 17490612 104239X 12000034 138136 19111610 10040500 74760512 138059 137156 73360600 109850X | Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40) Draglink, Ball Joint Solid Vgt Support Asm., Steering Vgt Column, Steering Adapter, Wheel Steering Bushing, Strg. Blk Screw, Slftp #10-16 x 1/2 Ty-b Washer 13/32 x 2-3/8 x 8 Ga. Bolt, Fin Hex 3/8-16 x 1 Gr. 5 Cap, Wheel Steering Bearing, Col. Strg. Screw, Thdrol 3/8-16 x 3/4 Bearing, Flange Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hlcl Spr 5/16 Bolt, Hex Hd 5/16-18 x 3/4 Gear, Sector Steering Tie Rod Jam Nut RH Thread Joint Asm. Ball RH Thread Joint Asm. Ball LH Thread Joint Asm. Ball LH Thread |

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

TRACTOR - - MODEL NUMBER 917.251480

ENGINE



TRACTOR - - MODEL NUMBER 917.251480

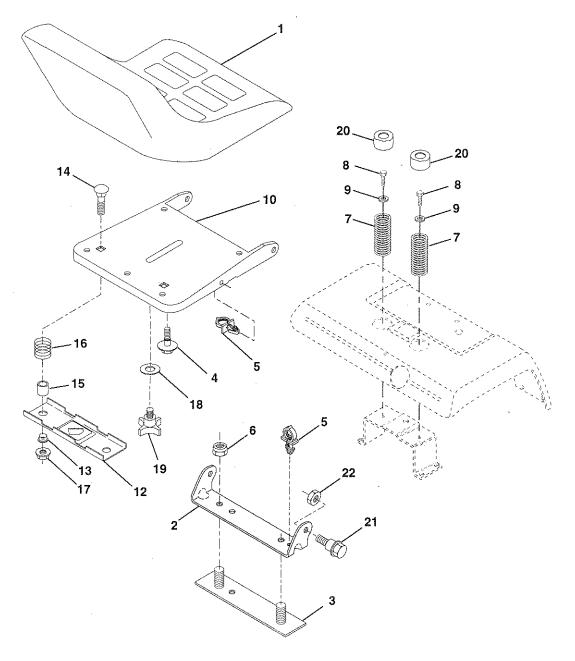
ENGINE

| KEY NO. | PART NO. | DESCRIPTION |
|--|---|--|
| 1 2 | 141948 144110 | Engine Kohler MV18S-58560 Muffler Asm Kohler VGT (Inc. Key No. 34) |
| 3 4 5 6 8 9 10 11 12 13 14 15 16 17 18 | 13240300 13280328 13200300 138129 121361X 145109 105432X 137140 136907 138486 138487 151346 109227X 106082X 151296 13290300 | Elbow Street 3/8 NPT Nipple Pipe 3/8NPT X 3 - 1/2 Elbow STD 90 Degree 3/8 - 18 NPT Clamp Tube Double Engine Pulley V-Idler Stop Keeper Asm VGT Bushing Clutch Electric Pulley Engine VGT Elect Clutch Baffle Air LH Koh VGT Baffle Air RH Koh VGT Tank Fuel Rear 3.50 Yt/Gt Pad Idler Pad Spacer Cap Asm Fuel W/Guage Vented Plug Oil Drain (Order From Engine |
| 20 21 22 23 24 25 26 27 28 29 30 32 34 35 36 37 39 40 41 42 43 45 62 | 133439 17720410 138672 19132616 11050600 73610600 3645J 139277 7834R 132920 105037X 17490508 17720408 10040500 74570512 123487X 17490652 126197X 10040700 71170768 128861 137373 | Manufacturer) Control Throttle Screw Hex Thd Cut 1/4 - 20 X 5/8 Control Choke Washer 13/32 X 1 - 5/8 X 16 Ga Washer Ext Tooth 3/8 Nut Fin Hex 3/8 - 24 UNF Bushing Stem Tank Fuel Fuel Line Spark Arrester Kit Strip Foam Screw Thdrol 5/16 - 18 X 1/2 Screw Thd Cut 1.4 - 20 x 1/2 Washer Lock 5/16 Screw Hex 5/16 - 16 UNC X 3/4 Clamp Hose Screw Thdrol 3/8 - 16 X 1 - 1/2 TT Screw Thdrol 3/8 - 16 X 3 - 1/4 Washer 1-1/2 OD X 15/32 ID X .250 Washer Lock 7/16 Bolt Hex 7/16 - 20 X 4 - 1/4 Ga 5 Nut, Flange 1/4-20 Starter Nut Shield, Heat Kohler Vgt |

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

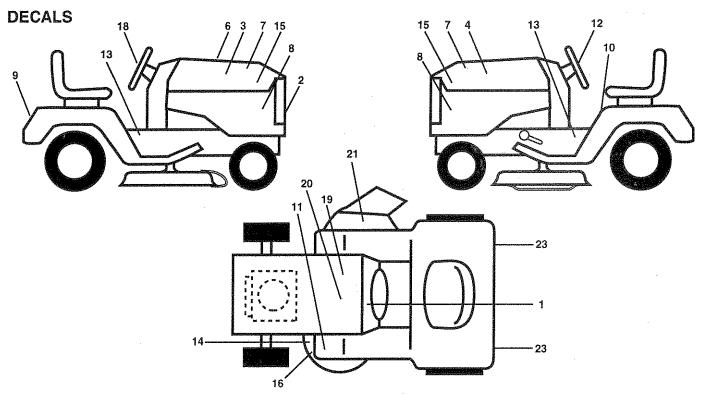
TRACTOR - - MODEL NUMBER 917.251480

SEAT ASSEMBLY



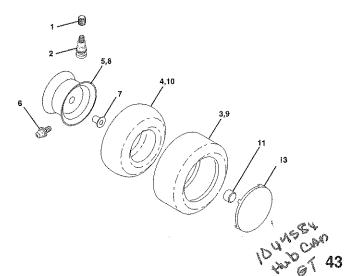
| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---|--|---|--|--|---|
| 1 2 3 4 5 6 7 8 9 | 140124 140551 140675 127018X 145006 73680600 124181X 17490508 19131614 140552 | Seat Bracket, Pivot Seat Strap, Fender Bolt, Shoulder 5/16-18 x .62 Clip, Push In Hinged Nut, Crownlock 3/8-16 Unc Spring, Seat Cprsn Screw, Thdrol 5/16-18 X 1/2 Washer 13/32 X 1 X 14 Ga. Pan, Seat | 13 14 15 16 17 18 19 20 21 22 | 121248X 72050411 121249X 123740X 123976X 19171912 120068X 124238X 139888 73680500 | Bushing, Snap Bolt, Carriage 1/4-20 X 1-3/8 Spacer, Split Spring, Cprsn Nut, Lock 1/4 Lge Flg Gr. 5 Washer 17/32 x 1-3/16 x 12 Ga. Knob, Seat 1/2-13 Unc Cap, Spring Seat Bolt, Shoulder 5/16-18 Nut, Crownlock 5/16-18 Unc |
| 12 | 121246X | Bracket, Mounting Switch | ТОИ | E: All compor 1 inch = 25 | nent dimensions given in U.S. inches 5.4 mm |

TRACTOR - - MODEL NUMBER 917.251480



| KEY | | PECAPIPTION | KEY | | DECODIDEION |
|-----|--------|--------------------------------|-----|---------|---------------------------------|
| NO. | NO. | DESCRIPTION | NO. | NO. | DESCRIPTION |
| 1 | 138955 | Decal, Operating Instruction | 15 | 151441 | Decal Hood Insert |
| 2 | 151448 | Decal, Grille Garden Trac. IPC | 16 | 146047 | Decal, V-Belt Drive Sch Tract |
| 3 | 146705 | Decal, Hood, Craftsman, RH | 18 | 146710 | Decal, Insert Strg |
| 4 | 146706 | Decal, Hood, Craftsman, LH | 19 | 138047 | Decal, Battery |
| 6 | 133644 | Decal, Maintenance | 20 | 149516 | Decal, Battery Dngr/Psn Srs Eng |
| 7 | 138048 | Decal, Side Panel | 21 | 151302 | Decal, Deck Mower EZ3 Polo |
| 8 | 142243 | Decal, Side Panel | 23 | 106202X | Reflector, Taillight |
| 9 | 146709 | Decal, Fender, Craftsman | | 145245 | Pad, Ftrest Rbr Sq |
| 10 | 137537 | Decal, Caution | | 145247 | Fastener, Pop-In Footrest |
| 11 | 4900J | Decal, Clutch/Brake | | 138311 | Decal, Handle Lft Height Adjust |
| 12 | 150333 | Decal, Cap CNSMR Help Line SRS | | | (Lift Handle) |
| 13 | 151452 | Decal, Chassis | | 151392 | Manual, Owner's (Eng) |
| 14 | 139346 | Decal, V-Belt Schematic | | 151393 | Manual, Owner's (Span) |

WHEELS & TIRES

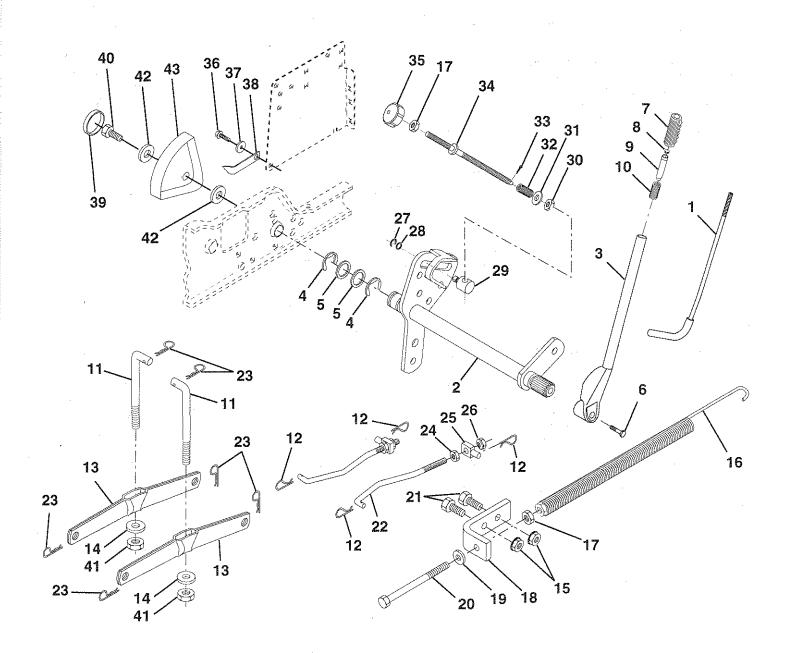


| KEY | PART | |
|--------|------------------|------------------------------------|
| NO. | NO. | DESCRIPTION |
| 1 | 59192 | Cap, Valve, Tire |
| 2 | 65139 | Stem, Valve |
| 2 3 | 106230X | Tire, Front |
| 4 5 | 8134H | Tube, Front (Service Item Only) |
| 5 | 106228X427 | Rim Assembly, Front |
| 6 | 278H | Fitting, Grease (Front Wheel Only) |
| | 6856M | Fitting, Grease |
| 7 | 9040H | Bearing, Flange (Front Wheel Only) |
| 8 | 106277X427 | Rim Assembly, Rear |
| 9 | 105588X | Tire, Rear |
| 10 | 7154J 4 | Tube, Rear (Service Item Only) |
| 11 | 10475 7 X | Cap, Axle (Front Wheel Only) |
| 13 | 136327 | Cover, Axle (Rear Wheel Only) |
| | 144334 | Sealant, Tire (10 oz. Tube) |

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

TRACTOR - - MODEL NUMBER 917.251480

LIFT ASSEMBLY



TRACTOR - - MODEL NUMBER 917.251480

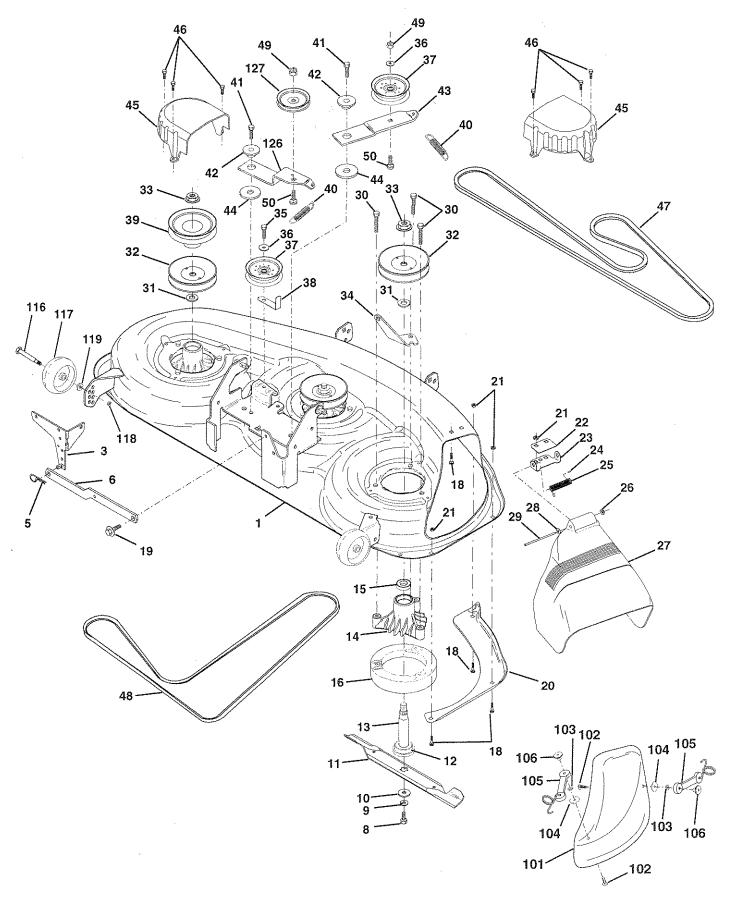
LIFT ASSEMBLY

| KEY NO. | PART NO. | DESCRIPTION |
|--|--|---|
| 12345678901123456789011234567890123222222222333333334423 | 121006X 145542 121002X 12000022 19292016 74780624 125631X 122365X 122364X 2876H 146704 3146R 139868 140302 73680600 674A247 73350600 143363 19131316 5328J 74760616 127218 4939M 73350800 130171 73800800 12000037 19151216 | Rod Asm., Lever Shaft Asm., Lift Vgt Lever Asm., Lift Ph E-Ring Truarc #5133-87 Washer 29/32 x 1-1/4 x 16 Ga. Bolt, Fin Hex 3/8-16 x 1-1/2 Grip, Handle Fluted Button, Plunger Plunger, Lever Lift Spring 2-1/8" Link Lift Retainer, Spring Arm, Suspension Vgt Bearing Nut, Crownlock 3/8-16 Unc Spring Asm., Assist Lift Nut, Hex Jam 3/8-16 Unc Bracket, Spring Assist Washer 13/32 x 13/16 x 16 Ga. Bolt, Adjust Spring Assist Bolt, Fin Hex 3/8-16 x 1 Link, Front Retainer, Spring Nut, Jam Hex 1/2-13 Unc Trunnion Nut, Lock W/Wsh 1/2-13 Unc Ring, Klip #T5304-37 Washer 15/32 x 3/4 x 16 Ga. Trunnion, Dp Stop Dbl Thds Plt Nut, Special Washer 13/32 x 5/8 x 16 Ga. Spring, Compression Inf Hgt Pin, Cotter 3/32 x 1/2 Rod, Adj Lift Knob, Inf 3/8-16 Unc Screw, Thdrol 3/8-16 x 3/4 Washer, Nylon Pointer, Pnt Height Indicator Plug, Hole Screw, Thdrol 5/16-18 x 3/4 Tyt Nut, Crownlock 3/8-24 Washer 11/32 x 1-1/2 x 10 Ga. Scale, Indicator Height |

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

TRACTOR - - MODEL NUMBER 917.251480

MOWER DECK



TRACTOR - - MODEL NUMBER 917.251480

MOWER DECK

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|------------|------------------|---|------------|----------------------|--|
| 1 | 145008 | Deck Asm., Mower 46" | 37 | 131494 | Pulley, Idler, Flat |
| 3 5 | 138457 4939M | Bracket Asm., Sway Bar | 38 39 | 137554 144917 | Keeper, Belt, Idler Pulley, Idler, Driven |
| 6 | 130832 | Retainer Spring Arm, Suspension, Rear (Sway Bar) | 40 | 137273 | Spring, Secondary 44/46/50 Vent |
| 8 | 850857 | Bolt, Patched 3/8-24 x 1-1/4 Gr. 8 | 41 | 17490620 | Screw, Thdroll 3/8-16 x 1-1/4 Tytt |
| 9 | 10030600 | Washer, Lock Hvy., Unplated 3/8 | 42 | 122052X | Spacer, Retainer |
| 10 | 140296 | Washer, Hard Blade, Mower | 43 | 144949 | Arm, Idler Secondary |
| | | Vented | 44 | 133943 | Washer, Hardened |
| 11 | 145708 | Blade, 46" Mower Deck | 45 | 145059 | Cover, Mandrel Deck |
| 12 | 129895 | Bearing, Ball, Mandrel #6204 | 46 | 137729 | Screw, Thdroll. 1/4-20 x 5/8 |
| 13 | 137553 | Shaft Asm. w/Lower Bearing | 47 | 144959 | V-Belt, Mower, Secondary |
| | | (Includes Key No. 12) | 48 | 148763 | V-Belt, Mower, Primary |
| 14 | 137152 | Housing, Mandrel | 49 | 73680600 | Nut, Crownlock 3/8-16 UNC |
| 15 | 110485X | Bearing, Ball, Mandrel | | 72110612 | Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5 |
| 16 | 140329 | Stripper, Mower Round | | 145579 | Cover, Mulching |
| 18 | 72140505 | Bolt, Carriage 5/16-18 x 5/8 | | 71161010 | Screw |
| 19 20 | 132827 145055 | Bolt, Hex Head, Shoulder 5/16-18 | | 10071000 19061216 | Washer, Lock #10 |
| 21 | 73680500 | Baffle, Vortex Mower 46" Nut, Crownlock 5/16-18 UNC | | 130758 | Washer |
| 22 | 134753 | Stiffener, Bracket | | 2029J | Latch Asm. Bagger Nut, Weld |
| 23 | 131267 | Bracket, Deflector | | 137644 | Bolt, Shoulder |
| 24 | 105304X | Cap, Sleeve | | 133957 | Gauge Wheel |
| 25 | 149287 | Spring, Torsion, Deflector | | 73930600 | Nut, Centerlock 3/8-16 UNC |
| 26 | 110452X | Nut, Push | | 19121414 | Washer 3/8 x 7/8 x 14 Ga. |
| 27 | 145325 | Shield, Deflector Mower | | 144948 | Arm, Idler, Primary Deck 46" |
| 28 | 19111016 | Washer 11/32 x 5/8 x 16 Ga. | | 146763 | Pulley, Idler, V-Groove Dim. 4.25 |
| 29 | 131491 | Rod, Hinge | 128 | 137789 | Shield, Idler |
| 30 | 138776 | Screw, Hex Head, Thdroll | 129 | 146881 | Keeper, Belt, Idler 46" |
| 31 | 129963 | Washer, Spacer Mower Vented | | 147401 | Mower Service STD Deck - Order |
| 32 | 129207 | Pulley, Mandrel | | | separately Mulcher and Gauge |
| 33 | 137266 | Nut, Flg. Top Lock Cntr., 9/16 | | | Wheel components, Key No.s 101- |
| 34 | 144945 | Anchor, Spring Deck 46" | | 4.400.77 | 106 and 116-119) |
| 35 | 17490628 | Screw, Thdroll 3/8-16 x 1-3/4 Tytt | | 143651 | Mandrel Asm. 44/50" Service |
| 36 | 19131316 | Washer 13/32 x 13/16 x 16 Ga. | | | (Includes Key No.'s 8-10, 12-15, 31, and 33) |

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

TRACTOR - - MODEL NUMBER 917.251480

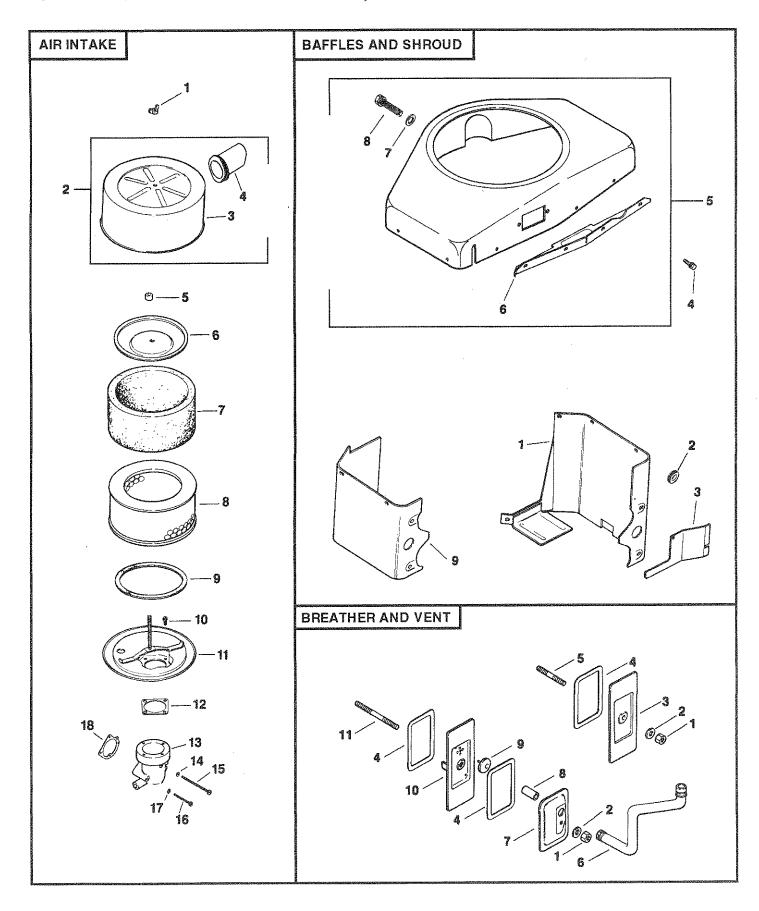
TRANSAXLE 77 ₅₀ 75. 70 74 **70** 73 39-

TRACTOR - - MODEL NUMBER 917.251480

TRANSAXLE

| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
|----------|------------------|---|----------|-------------------|--|
| 1 | 4197R | Axle Shaft_ | 52 | 8119M | Needle Bearing |
| 2 | 12000034 | Retaining Ring | 53 | 4220R | Thrust Bearing Race |
| 3 | 4199R | Final Drive Gear | 54 | 4209R | 3rd Reduction Pinion, Low |
| 4 | 4216R | Differential Gear | 55 | 4213R | 4th Reduction Gear |
| 5 | 4215R | Differential Pinion | 56 | 4442R | 3rd Reduction Pinion Spacer |
| <u>6</u> | 4217R | Differential Carrier | 57 | 4195R | 2nd Reduction Gear Shaft |
| 7 | 6256H | Axle Thrust Washer | 58 | 4214R | Final Drive Pinion |
| 8 | 74020652 | Bolt, Hex Head 3/8-24 x 3-1/4 | 59 | 4194R | 1st Reduction Gear Shaft |
| 0 | 700014 | (1" Thread Length) | | 7528R | 1st Reduction Shaft Spacer |
| 9 | 7392M | Steel Ball | 61 | 4208R | 3rd Reduction Plnion High |
| 10 | 137261 | Spring Shift Fork Detent | 62 | 4207R | 2nd Reduction Gear |
| 11 12 | 4985R 6266H | Shift Fork, High-Low Range | | 7398H | Needle Bearing |
| 13 | 4212R | Thrust Bearing Race 4th Reduction Pinion | 64 | 4203R | Low Speed Gear and 2nd |
| 14 | 137125 | Shaft, Brake | 65 | 4204R | Reduction Pinion Cluster Reverse Gear |
| 15 | 6276H | Snap Ring, Crescent Type | | 2898J | Key, Hi-Pro 1/8 x 17/32 |
| 16 | 633A63 | High-Low Range Gears | 67 | 12000033 | Klip Ring |
| 17 | 8118M | Needle Bearing | 68 | 4205R | Intermediate Speed Gear |
| 18 | 8740H1 | Sintered Iron Bearing | | 4206R | High Speed Gear |
| 19 | 122238X | Shift Fork Shaft, High-Low Range | | 1370H | Thrust Bearing Race |
| 20 | 4218R | Differential Pinion Spacer | 71 | 633A69 | Intermediate and High Speed |
| 21 | 6252H1 | Differential Pinion Bushing | | | Cluster Pinions |
| 22 | 7810H | Gripco Centerlock Nut 3/8-24 | 72 | 139120 | Input Shaft |
| 23 | 6262H | Shift Fork, R.H. | 73 | 4201R | Low Speed Pinion |
| 24 | 7393R | Oil Seal | | 12000008 | E-Ring |
| 25 | 992R1 | Sintered Iron Bearing | 75 | 1153R | Reverse Idler Gear |
| 26 27 | 139111 | Shift Fork Shaft | 77 | 6803J | Needle Bearing |
| 28 | 4986R 122254X | Shift Fork, L.H. Shift Shaft, High-Low Range | | 1167R | Sealing Washer |
| 29 | 6269H | Oil Seal | 80 81 | 73360700 6270H | Nut, Hex, Jam 7/16-20 |
| 30 | 5855H | Pressure Relief Valve | | 136984 | Oil Seal Reverse Idler Shaft |
| 31 | 139538 | Gearcase, Reverse Idler Shaft and | 84 | 5384J | Gearshift Lever, Bent |
| - | | Bearings, R.H. (Includes Key No.'s | 85 | 2978J | Gearshift Cap |
| | | 17,18, 25, 33, 50, 63, 77 and 82) | | 633A85 | Gearshift Ball Cover and Pin |
| 32 | 6277H | Dowel Pin | | | Shift Lever Guide Ball, Keyed |
| 33 | 4225R | Needle Bearing | | 4924H | Spring |
| | 7396H | Thrust Bearing Race | | 19151516 | Washer 15/32 x 15/16 x 16 Gauge |
| 35 | 4198R | 4th Reduction Gear Shaft | | 110542X | Shift Mechanism Seal |
| 36 | 4200R | 4th Reduction Gear Spacer | | 19181511 | Washer 9/16 x 15/16 x 12 Gauge |
| 37 | 7395H | Thrust Bearing Race | | 75J | Gearshift Gate and Reinforcement |
| 39 | 139536 | Gearcase and Bearings, L.H. | | 6274H | Shift Ball Cover Gasket |
| | | (Includes Key Numbers 18, 25, 49, | | 76020412 | Cotter Pin 1/8 x 3/4 |
| 40 | 13320400 | 50 (2), 51 and 52) Pipe Plug 1/2-14 N.P.T. | | 10040500 | Washer, Lock 5/16 |
| 41 | 17580520 | Bolt, Hex 5/16-18 UNC x 1-1/4 | | 74760514 | Boit, Hex Head 5/16-18 UNC x 7/8 |
| 45 | 6271H | Oil Seal | | 633A109 140332 | Gearshift Lever Assembly |
| 46 | 13060200 | Pipe Plug 1/4-18 N.P.T. | 30 | 140002 | Transaxle Assembly (Less Brake Drum and Shift Lever) |
| 49 | 4895H | Needle Bearing | | | (Less Diane Diani and Shiit Level) |
| 50 | 4222R | 3.1 11 mm 1 T | NOTI | E: All compone | ent dimensions given in U.S. inches |
| 51 | 1529R | Needle Bearing | | 1 inch = 25. | |
| | | | | | |

TRACTOR - - MODEL NUMBER 917.251480



TRACTOR - - MODEL NUMBER 917.251480

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560

| AIR | INTAKE | | BAFFLES & SHROUD | | |
|------------------|--------------------------------|--|------------------|-------------------------------------|--|
| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
| 1 2 | X-276-7 52 755 83 | Wing Nut 1/4-20 Kit, Cover and Tube (Includes Key Numbers 3 and 4) | 1 2 3 | 52 063 41 52 313 05 52 063 42 | Baffle, #2 Cylinder Head Grommet (2) Baffle, Fuel Pump |
| 3 4 | 52 096 35 52 123 21 | Cover, Air Cleaner Tube, Air Intake | 4 | X-67-83 | Screw, Hex Washer Head 1/4-20 x 7/16 (14) |
| 4 5 6 7 | 231032 52 082 04 | Seal, Element Cover Cover, Air Cleaner Element | 5 | 52 755 70 | Kit, Blower Housing (Includes Key Numbers 6 thru 8) |
| 8 | 45 083 01 45 083 02 | Pre-Cleaner Element | 6 7 | 52 217 01 52 468 16 | Support, Upper Housing Washer, Flat (2) |
| 9 10 | 237423 X-67-98 | Seal, Air Cleaner Cover Screw, Hex Washer Head | 8 9 | 52 086 11 52 124 23 | Screw 1/4-20 x 5/8 (6) Baffle, #1 Cylinder Head |
| 11 | 52 201 06 | #10-32 x 9/16 (4) Base, Air Cleaner | | ILLUSTRATE | |
| 12 13 14 | 277093 52 054 39 X-25-79 | Gasket, Air Cleaner (2) Elbow, Air Intake Washer, Plain #10 | | 52 113 46 | Decal, Horsepower (3) |
| 15 | X-50-37 | Screw, Slotted Pan Head #10-32 x 2-1/4 | BRE | ATHER & VEN | IT |
| 16 | X-50-57 | Screw, Slotted Pan Head #10-32 x 1-3/4 (2) | | PART NO. | DESCRIPTION |
| 17 | X-22-9 | Washer, Lock, Internal Tooth #10 (2) | 1 | X-81-1 | Nut, Hex 1/4-20 (2) |
| 18 | 25 041 06 | Gasket, Air Cleaner Elbow | 2 3 | X-25-12 52 096 18 | Washer, Plain 1/4 (2) Cover, #2 Cylinder Valve |
| NOT | ILLUSTRATED |) | 4 | 52 055 01 | Gasket, Cover (3) |
| | 25 113 15 52 113 30 | Decal, Air Cleaner Decal | 5 | X-352-39 | Stud, #2 Cylinder Valve Cover 1/4-20 x 2-1/4 |
| | | | 6 7 8 | 52 326 12 52 096 08 52 032 04 | Hose, Breather Cover, #1 Upper Cylinder Valve Seal Breather |

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

Seal, Breather

Valve, Umbrella Cover, #1 Lower Cylinder Valve Stud, #1 Cylinder Valve Cover 1/4-20 x 3-1/4

52 032 04

52 462 01 52 096 22

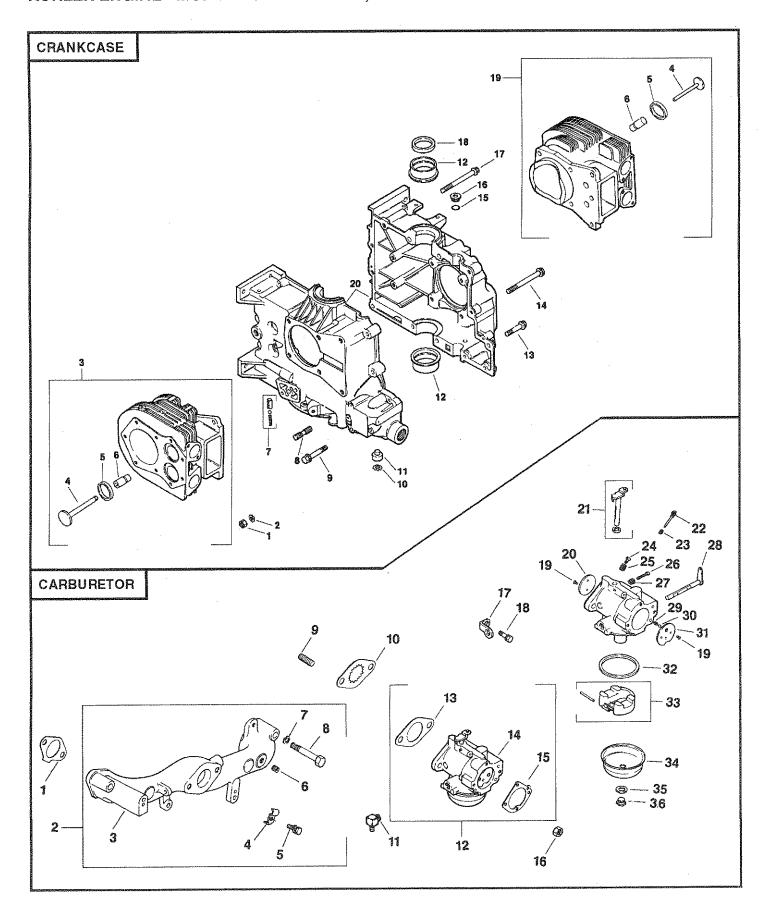
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TRACTOR - - MODEL NUMBER 917.251480



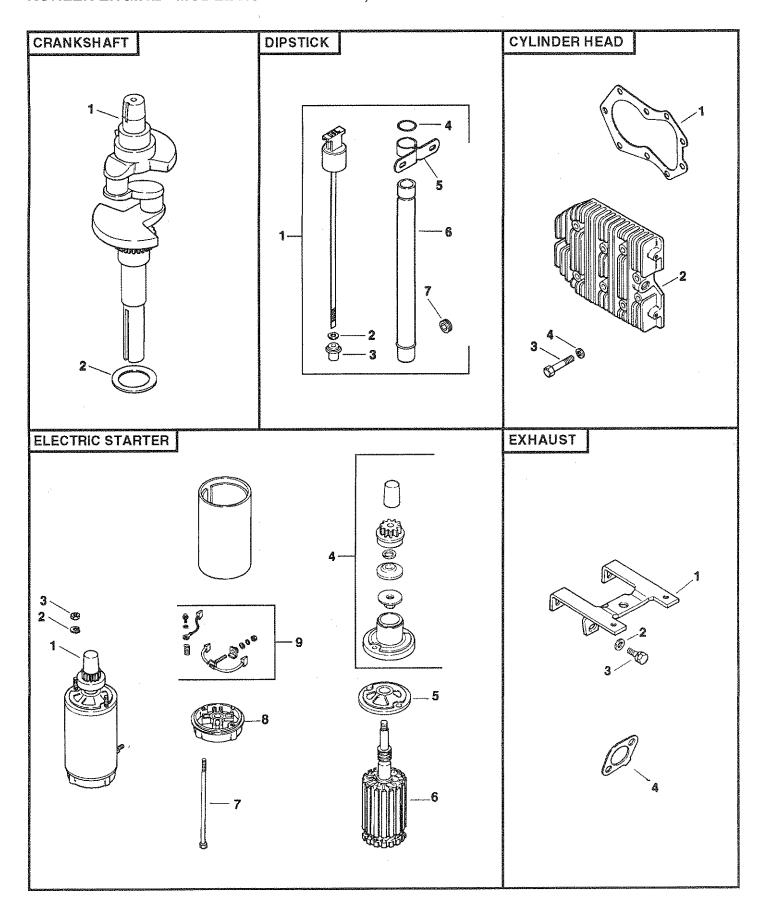
TRACTOR - - MODEL NUMBER 917.251480

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560

| CRANKCASE | CAF | CARBURETOR | | |
|---|---|--|--|--|
| KEY PART DESCRIPTION NO. NO. | | PART NO. | DESCRIPTION | |
| 1 X-82-2 Nut, Hex 5/16-18 (12 2 52 468 12 Washer, Flat 5/16 (1 3 82 755 16 Kit, #1 Cylinder Barrel | 2) 2 | 52 041 09 52 755 91 | Gasket, Intake (2) Kit, Manifold (Includes Key Numbers 3 thru 8) | |
| (Includes Key Numbe 4 52 016 05 Valve, Exhaust 5 52 031 01 Insert, Valve Seat (2) 6 52 316 06 Guide, Valve (2) 7 52 755 50 Kit, Oil Relief | 4 5 6 | 52 164 15 X-21-1 X-6-29 X-75-23 | Manifold, Intake Washer, Lock 5/16 (4) Screw, Hex Cap 5/16-18 x 2 (4) Plug, Hex, Countersunk 1/8 N.P.T.F. | |
| 8 52 072 12 Step Stud 5/16-18 x 3/8-16 x 5/8, 2" Long s 9 25 086 12 Screw, Hex Flange 5/ | (12) 8 | 235778 X-67-97 | Clamp, Cable (2) Screw, Hex Washer Head | |
| 9 25 086 12 Screw, Hex Flange 5, Ring, Retaining 11 52 078 05 Shaft, Governor 12 52 030 10 Bearing, Sleeve .010 Bearing, Sleeve .020 Bearing, Sleeve .020 | 9 10 dard (2) 11 '(2) 12 | 41 072 19 52 063 40 25 155 02 52 853 25 | #10-24 x 3/8 (2) Stud 5/16-18 x 1 (2) Baffle, Carburetor Connector, Hose Kit, Carburetor with Gasket (Includes Key Numbers 12 thru 14) | |
| 13 25 086 10 Screw, Hex Flange 5/16-18 x 1-1/2 (3) | 13 14 | 271030 52 053 54 | Gasket, Carburetor (2) Carburetor Assembly (Information | |
| 14 25 086 13 Screw, Hex Flange 3/8-16 x 3-5/8 (2) | | | Only - Not Available Separately) (Includes Key Numbers 18 thru 35) | |
| 15 52 141 02 O-Ring 16 52 139 08 Plug 17 25 086 11 Screw, Hex Flange 5/16-18 x 3-1/2 (8) | 16 17 | 25 041 06 X-77-2 232867 X-67-62 | Gasket, Air Cleaner Nut 5/16 (2) Strap, Lifting Screw, Hex Washer Head | |
| 18 52 032 10 Seal, Oil, Front 19 82 755 17 Kit, #2 Cylinder Barrel (Includes Key Number 20 Crankcase (Service w Block, Part Number 82 | 19 | 25 086 27 25 146 03 52 144 24 25 368 01 25 089 02 25 086 26 25 089 04 25 368 03 25 089 02 52 090 13 25 089 03 25 194 01 25 146 02 25 041 04 25 757 09 25 104 01 25 041 03 25 100 05 | 1/4-20 x 3/4 Screw, Throttle and Choke Plate (4) Plate, Choke Shaft, Throttle with Lever and Seal Needle, Idle Fuel Adjust Spring, Idle, Fuel Screw, Idle Speed Adjust Spring, Idle Speed Needle, Main Fuel Spring, Main Fuel Lever, Choke Spring, Choke, Friction Ball, Choke, Friction Plate, Throttle Gasket, Bowl Kit, Float Bowl, Fuel Gasket, Bowl Retainer Screw Screw, Bowl Retainer | |
| | NOT | ILLUSTRATED 25 757 11 25 757 23 | Kit, Carburetor Repair Kit, Bowl Baffle | |

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

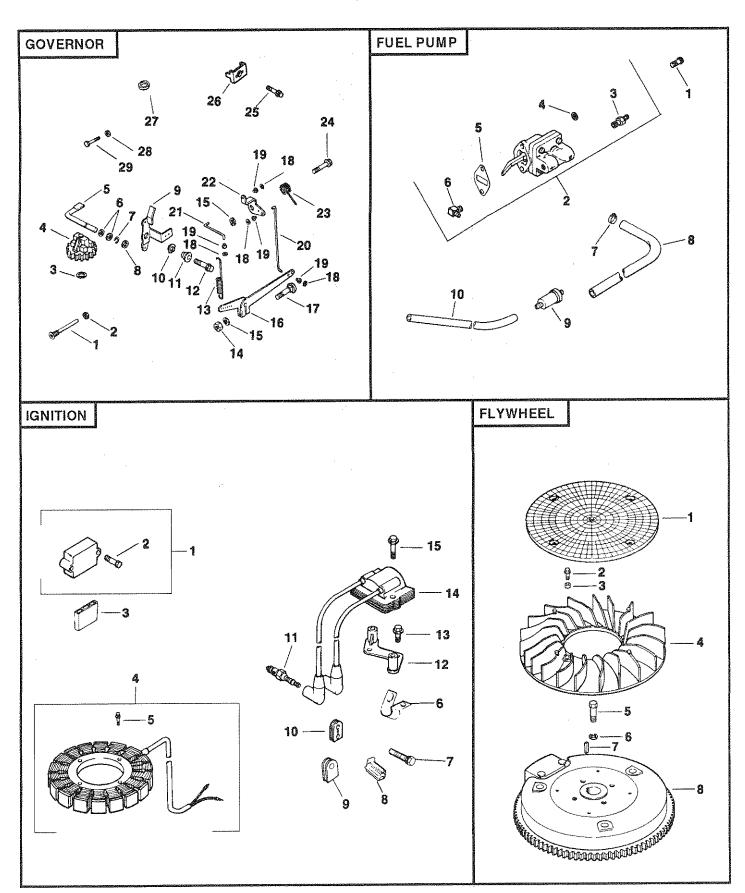
TRACTOR - - MODEL NUMBER 917.251480



TRACTOR - - MODEL NUMBER 917.251480

| | | • | | | |
|-------------|--|--|---|---|--|
| CRAI | NKSHAFT | | ELECTRIC STARTER | | |
| KEY NO. | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION |
| 2 | 52 014 93 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.) | 1 2 3 4 5 | 52 098 12 X-20-1 X-81-1 82 755 26 52 081 07 | Starter Assembly (Includes Key Numbers 4 thru 9) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive Cap, Drive End |
| DIPS' | HCK | | 6 7 | 52 170 05 52 211 01 | Armature |
| KEY NO. | PART NO. | DESCRIPTION | | 52 227 10 82 755 28 | Bolt, Thru (2) Cap, Commutator End Kit, Brush |
| 1 | 1 52 038 14 Dipstick Assembly | | NOT ILLUSTRATED | | |
| 2 3 4 | X-25-44 52 032 14 41 153 01 52 126 11 | (Includes Key Numbers 2 and 3) Washer, Plain 5/16 Seal, Rubber O-Ring Bracket, Oil Tube Support | | 25 450 03 AUST | Tag, Caution |
| 6 | 52 123 20 47 139 01 | Tube, Oil Fill 11-7/8 Plug, Hex, Countersunk 3/4 N.P.T.F. | KEY NO. | PART NO. | DESCRIPTION |
| | NDER HEAD | DESCRIPTION | | 52 126 12 X-25-72 52 086 11 52 041 14 | Bracket Washer, Plain (3) Screw 1/4-20 x 5/8 (3) Gasket, Exhaust (2) |
| NO. | | DEOCH HOIT | NOT | E: All company | ant dimensions given in LLS inches |
| 2 3 | 52 041 20 52 015 08 220534 41 086 02 | Gasket, Head (2) Cylinder Head (2) Washer, Plain 5/16 (18) Screw, Hex Head 5/16-18 x 1-1/2 (18) | NOTE: All component dimensions given in U 1 inch = 25.4 mm | | 4 mm |

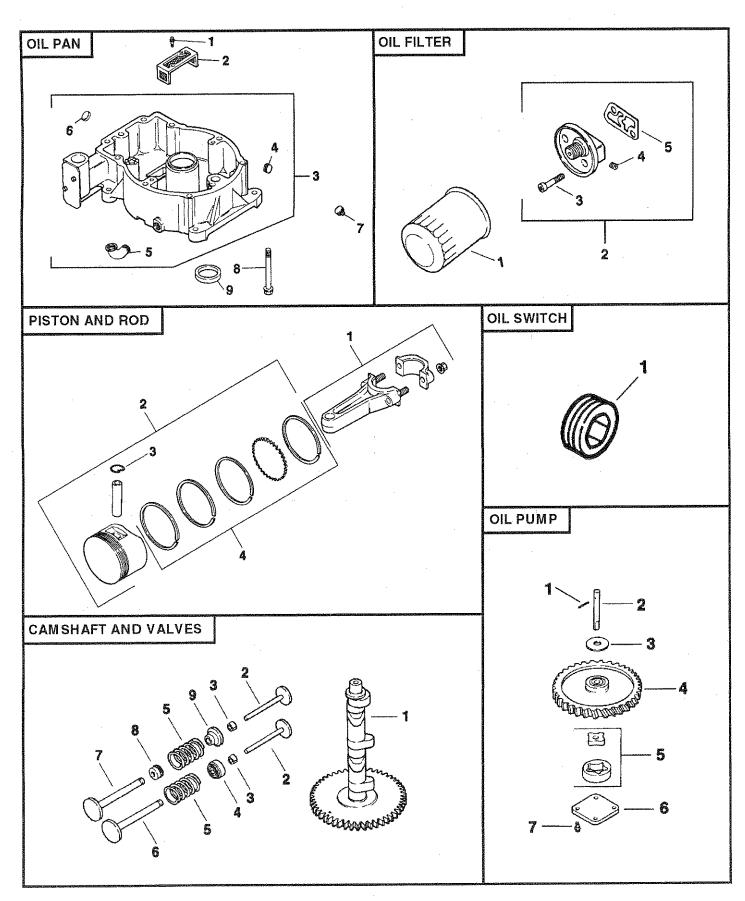
TRACTOR - - MODEL NUMBER 917.251480



TRACTOR - - MODEL NUMBER 917.251480

| FLYWHEEL | | | FUE | FUEL PUMP | | | |
|---|--|--|---------------------------------|---|---|--|--|
| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION | | |
| 1 2 | 25 162 01 25 086 21 | Screen, Grass Screw, Hex Washer Head | 1 | 47 086 08 | Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2) | | |
| 3 | 25 112 04 | 1/4-20 x 5/8 (4) | 2 | 52 559 01 | Pump, Fuel Assembly | | |
| 5 4 5 6 7 8 | 25 157 01 25 086 24 52 468 15 X-286-17 52 025 36 | Spacer (4) Fan Screw, Hex Machine 3/8-24 x 1-1/4 Washer, Plain Key, Square 3/16 x 7/8 Flywheel | 3 4 5 6 7 8 9 | X-380-1 X-25-63 25 041 09 25 155 02 X-426-9 52 353 18 25 050 03 | (Includes Key Numbers 3 thru 6) Connector, Straight Washer, Plain 1/4 (2) Gasket, Fuel Pump Connector, Hose Clamp, Hose (4) Line, Fuel, 8" Filter, Fuel | | |
| GOV | ERNOR | | 10 | 15 353 04 | Line, Fuel, 11-1/2" | | |
| | PART NO. | DESCRIPTION | IGNI | TION | | | |
| 1 2 3 | 231355 X-25-12 237022 | Pin, Governor Stop Washer, Plain 1/4 Washer, Thrust | KEY NO. | PART NO. | DESCRIPTION | | |
| 4 | A-235743-S | Kit, Governor Gear | 1 | 25 755 03 | Kit, Rectifier-Regulator | | |
| 5 6 | 52 078 04 X-25-102 | Shaft, Governor Cross Washer, Plain 1/4 (2) | 2 | X-132-5 | (Includes Key Number 2) Screw, Hex Cap 1/4-20 x 5/8 (2) | | |
| 7 | X-269-28 | Retainer, Governor | 3 | 236602 | Connector, 3 Contact | | |
| 8 9 | X-25-72 52 090 23 | Washer, Plain 1/4 (2) | 4 | | Kit, Stator (Includes Key Number 5) | | |
| | 277341 | Lever, Speed Control Washer, Tension | | X-67-51 210281 | Screw, Hex Cap #10-24 x 3/4 (2) Clip (2) | | |
| 11 12 | 52 158 07 25 086 15 | Bushing, Throttle Control Lever Screw, Hex Washer Head | 7 | X-67-64 | Screw, Hex Washer Head #10-32 x 7/16 | | |
| | | 1/4-20 x 1 | | 41 155 03 | Connector, 2 Contact | | |
| | 52 089 07 X-81-1 | Spring, Governor Nut, Hex 1/4-20 | | 220297 | Grommet, Rubber | | |
| | X-25-63 | Washer, Plain 1/4 | 11 | 52 313 02 52 132 02 | Grommet Spark Plug (2) | | |
| 16 | 52 186 09 | Arm, Governor | 12 | 52 126 08 | Bracket, Module | | |
| 17 | 52 211 04 | Screw, Round Head, Square Neck 1/4-20 x 1 | 13 | 25 086 15 | Screw, Hex Washer Head 1/4-20 x 1 (2) | | |
| | 25 141 03 | Ring, Retaining (4) | | 52 584 02 | Module, Ignition | | |
| | 25 158 08 52 079 07 | Bushing, Linkage Retaining (4) Linkage, Governor | 15 | 25 086 16 | Screw, Hex Washer Head 1/4-20 x 7/8 (2) | | |
| 21 | 52 079 06 | Linkage, Throttle | | | | | |
| 22 | 52 090 14 | Lever, Throttle | | ILLUSTRATED | | | |
| 23 24 | 52 089 08 25 086 21 | Spring, Torsion Screw, Hex Washer Head | | 47 518 33 | Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push | | |
| | | 1/4-20 x 5/8 | | | On Tab Terminals) | | |
| 25 | X-67-97 | Screw, Hex Washer Head | | 52 518 19 | Lead, White, Module To Connector | | |
| 26 | 235778 | #10-24 x 3/8 (3) Clamp, Cable (3) | | | (19-1/2", 14 Gauge, Insulated Push On Tab, Uninsulated Push On Tab | | |
| 27 | 25 431 01 | Bushing, Speed Control Lever | | • | Terminals) | | |
| | X-70-3 | Nut, Hex #10-32 | 810 | F- A11 | , | | |
| 29 52 086 05 Screw, Hex Head #10-32 x 7/8 N | | | | NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm | | | |

TRACTOR - - MODEL NUMBER 917.251480



TRACTOR - - MODEL NUMBER 917.251480

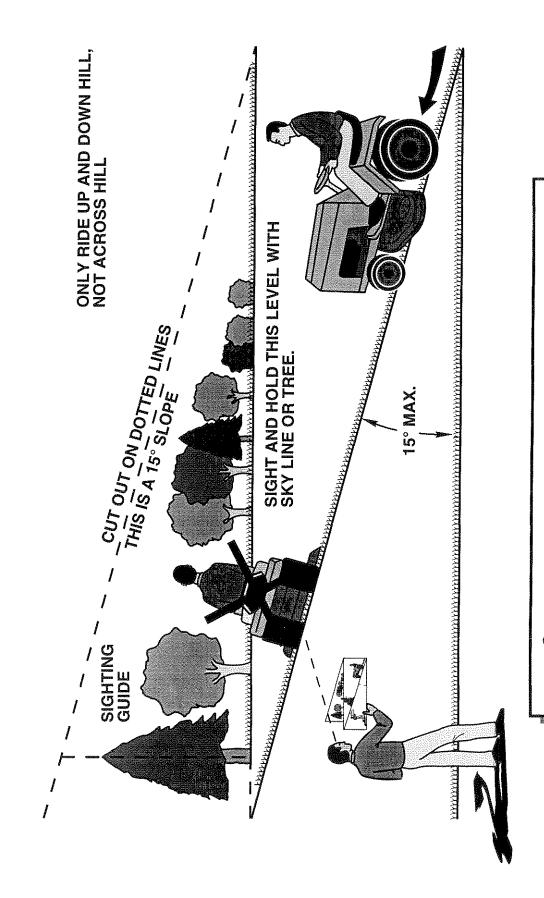
| OIL PAN | | | | LOW OIL PRESSURE SWITCH | | | |
|------------|--|--|---|--|---|--|--|
| | PART NO. | DESCRIPTION | | PART NO. | DESCRIPTION | | |
| 1 | X-67-64 | Screw, Hex Washer Head #10-32 x 7/16 (2) | 1 | X-75-23 | Plug, Pipe 1/8 N.P.T.F. | | |
| | 52 050 03 52 199 14 X-702-14 | Filter, Oil Pickup Oil Pan (Includes Key #4 thru 6) Plug, Cup 1-1/16 | CAMSHAFT & VALVES | | | | |
| 5 | 52 054 07 X-75-38 | Elbow, Street Plug, Hex, Countersunk 1/4 N.P.T.F. | KEY NO. | PART NO. | DESCRIPTION | | |
| 7 8 | X-75-10 52 086 12 | Plug, Square Head 3/8 N.P.T.F. (2) Screw, Hex Washer Head 5/16-18 x 1-1/4 (9) | 2 | | * Camshaft * Tappet (4) Kit, Retainer (4) | | |
| 9 | 52 032 10 | Seal, Oil, Rear | 4 5 | 52 413 01 25 089 01 | Rotator, Exhaust Valve (2) Spring, Valve (4) | | |
| OIL FILTER | | | 7 | 52 016 05 52 017 08 | Valve, Exhaust (2) Valve, Intake (2) Saal, Intake (2) | | |
| KEY NO. | PART NO. | DESCRIPTION | 9 * | 52 032 13 230011 After serial no. 52 012 11 | Seal, Intake Valve Stem (2) Retainer, Intake Valve (2) 24082000 use: Camshaft | | |
| 1 2 | 52 050 02 82 755 23 | Oil Filter Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5) | ż | 52 019 02 | Tappet | | |
| 3 | X-55-15 | (Includes Key Numbers 3 thru 5) Screw, Hex Socket Head 5/16-18 x 1-1/4 (2) | OIL | PUMP | | | |
| 4 | X-75-23 | Plug, Hex, Countersunk 1/8 N.P.T.F. | KEY NO. | PART NO. | DESCRIPTION | | |
| 5 | 52 041 16 | Gasket, Oil Filter | 1 | X-280-25 | Pin, Roll | | |
| PIST | ON & ROD | | | 52 144 05 52 422 01 | Shaft, Oil Pump Spacer, Shim (As Required, Maximum of 2) | | |
| KEY NO. | PART NO. | DESCRIPTION | 5 | 52 043 05 52 393 09 52 096 03 | Gear, Oil Pump Rotor Set | | |
| | 52 067 67 52 067 68 | Connecting Rod, Standard (2) Connecting Rod .010" (2) | 7 | X-67-64 | Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4) | | |
| 2 | 52 874 11 52 874 12 52 874 13 | Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2) Piston with Ring Set .010" (2) | NOT | NOT ILLUSTRATED | | | |
| 3 | 52 874 14 52 874 15 230004 | Piston with Ring Set .020" (2) Piston with Ring Set .030" (2) Retainer, Piston Pin (4) | | 82 522 30 52 755 94 | Short Block Gasket Set | | |
| | 52 108 09 52 108 10 52 108 11 52 108 12 | Ring Set, Standard and .003" (2) Ring Set .010" (2) Ring Set .020" (2) Ring Set .030" (2) | | | Low Speed: 1150-1650 High Speed: 3200-3400 | | |
| | | | NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm | | | | |

SERVICE NOTES

SERVICE NOTES

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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. 917.251480

IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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CREFTSMEN®

18.5 HP IC ELECTRIC START 46" MOWER 6 SPEED TRANSAXLE GARDEN TRACTOR

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

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

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

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 917.251480
- ENGINE MODEL NO. MV18S-58560
- PART NUMBER
- PART DESCRIPTION

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