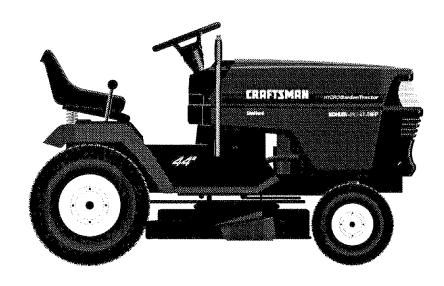
SEARS

440 3

MODEL NUMBER 917.257730 OWNER'S MANUAL

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



CAUTION: Read and follow all safety rules and instructions before operating this equipment.



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

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 watchfu 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 smal children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

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



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



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

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

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center/Department 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	917.257730					
SERIAL NUMBER						
DATE OF PURCHASE						
	ND SERIAL NUMBERS WILL BE FOUND UNDER THE SEAT.					
3	RECORD BOTH SERIAL NUMBER AND RCHASE AND KEEP IN A SAFE PLACE					

MAINTENANCE AGREEMENT

FOR FUTURE REFERENCE.

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

CUSTOMER RESPONSIBILITIES

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

PRODUCT SPECIFICATIONS

HORSEPOWER:	18.0
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: .003"016"
GROUND SPEED (MPH):	FORWARD: 0 – 5.6 REVERSE: 0 – 2.5
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BLADE BOLT TORQUE:	30–35 FT. LBS.

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

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

LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two (2) years from the date of purchase, if this 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 and belts.
- · Tire replacement or repair caused by punctures from outside objects, such as nails, thoms, 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.

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

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

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

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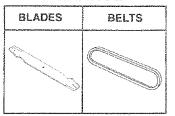
ACCESSORIES AND ATTACHMENTS

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

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 2×8 or 2×10 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.

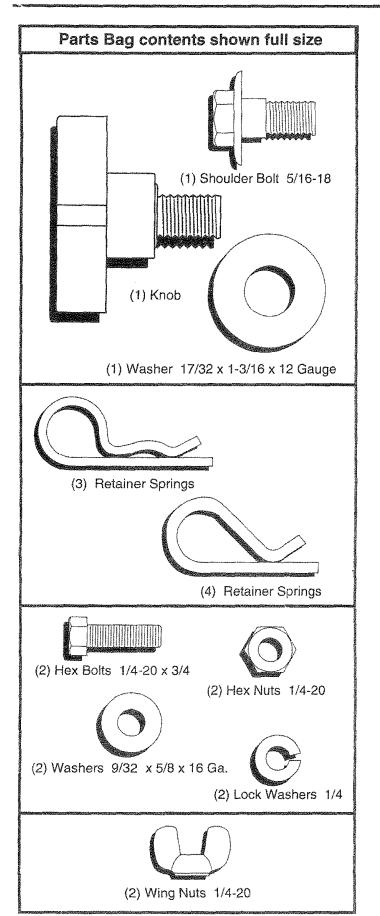
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered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

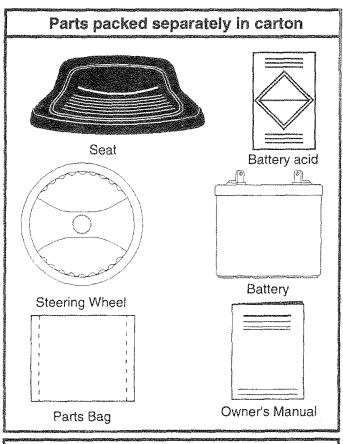
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

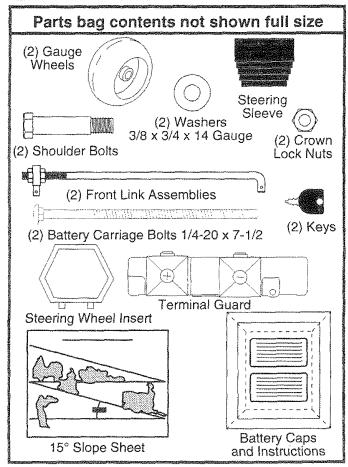
WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (2) 7/16" wrenches
- (1) Tire pressure gauge
- (1) 9/16" wrench
- (1) Utility knife
- (1) 1/2" wrench
- (1) 3/4" socket w/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

- 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 steering sleeve over 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 IS TO ROLL OFF SKID.

TO ROLL TRACTOR OFF SKID (See Fig. 7)

- · Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in Operation section of this manual).
- Roll tractor backwards off skid.

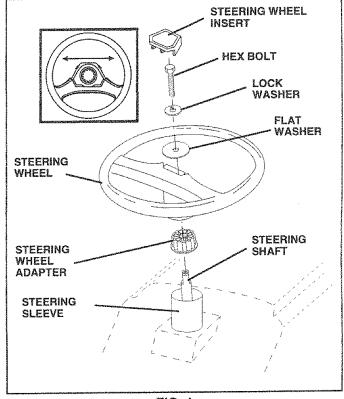


FIG. 1

HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Fig. 2)

CAUTION: Wear eye and face shield.



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

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

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

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

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

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

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

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

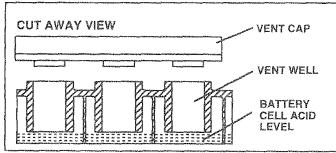


FIG. 2

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.

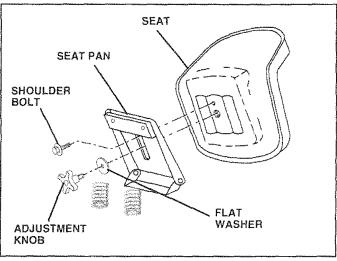


FIG. 3

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 MOWER AND DRIVE BELT (See Figs. 4 and 7)

Be sure tractor is on level surface. Engage parking brake.

- Cut and remove tie down securing anti-sway bar.
 Swing anti-sway bar to left side of mower deck.
- Relieve idler tension from belt. Push idler forward and place a block (standard wood 2 x 4 or equivalent) behind idler pulley.
- Slide mower under tractor with discharge guard to right side of tractor.
- Swing L.H. gauge wheel bar forward by removing rear retainer spring and pin.
- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Slide right side of mower deck forward, toward R.H. front tire.

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

- Install second front link in the top hole of the R.H. front mower bracket and R.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- · Carefully remove block from behind idler pulley.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift lever.

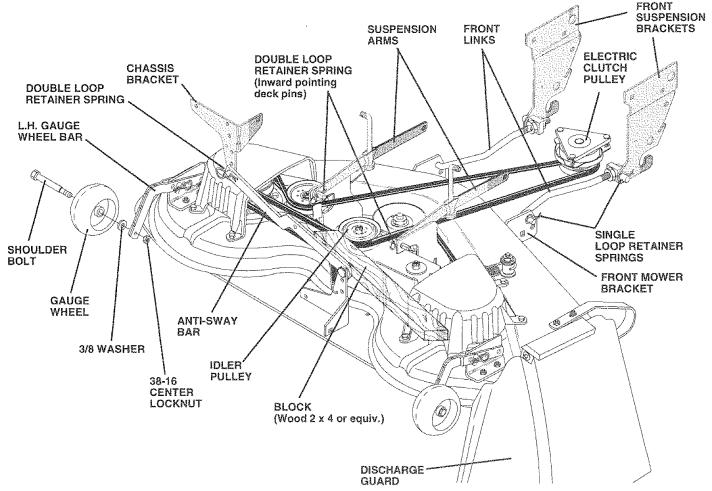
- Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Swing L.H. gauge wheel bar back towards rear of mower and secure with pin and retainer spring removed earlier.
- Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers and 3/8-16 center locknuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown 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.



INSTALL BATTERY (See Figs. 5 and 6)



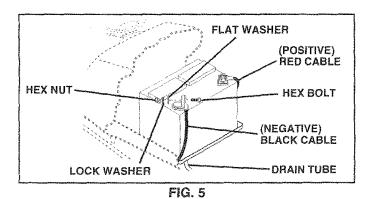
CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

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

- Lift hood to raised position.
- Be sure battery drain tube has not come loose and is securely attached to drain in battery tray.
- Lower battery into battery tray with terminals to front of tractor.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Slide the two battery bolts through the terminal guard and start the wing nuts onto the threads.
- Position terminal guard over battery as shown, lower battery bolts into key holes and slide square shafts of battery bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- · Be sure terminal access doors are closed.

Use terminal access doors for:

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



BATTERY BOLT

TERMINAL ACCESS DOORS

VENT CAPS

BATTERY TRAY

FIG. 6

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

KNOW YOUR TRACTOR

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

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

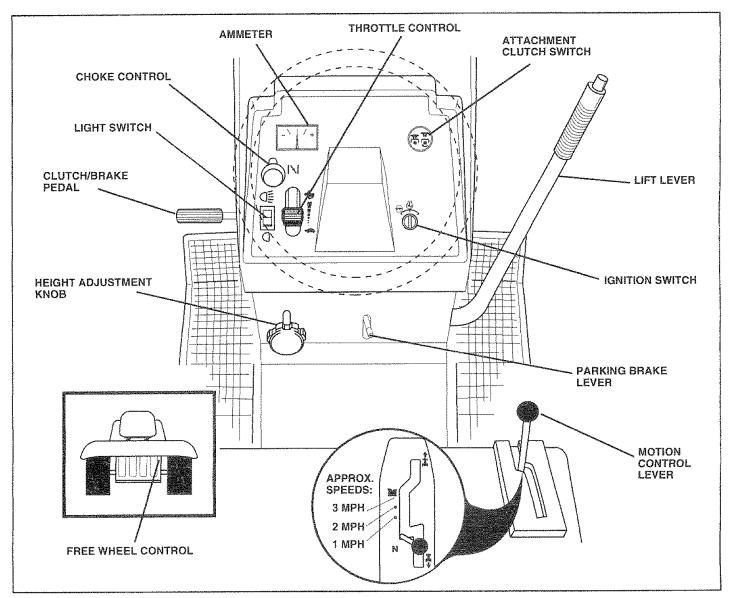


FIG. 7

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.

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

MOTION CONTROL - Selects the speed and direction of tractor.

CHOKE CONTROL - Used when starting a cold engine. **LIGHT SWITCH** - Turns the headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.

IGNITION SWITCH - Used to start and stop the engine.

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

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

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 for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 8)

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

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

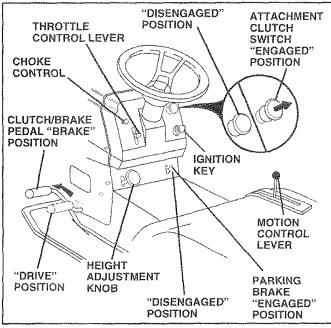


FIG. 8

STOPPING (See Fig. 8)

MOWER BLADES -

 Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

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

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

ENGINE -

Move throttle control to slow (**) position.

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

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

NOTE: Under certain conditions when unit 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 CHOKE CONTROL (See Fig. 8)

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

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

TO USE THROTTLE CONTROL (See Fig. 8)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Fig. 8)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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

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

The cutting height range is approximately 1-1/4" 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. 9)

- Adjust mower to desired cutting height.
- Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
- Replace retainer springs into clevis pins.

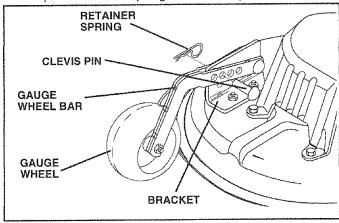


FIG. 9

TO OPERATE MOWER (See Figs. 7 and 8)

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

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



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

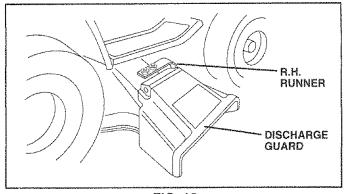


FIG. 10

TO OPERATE ON HILLS



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

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

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

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

TO TRANSPORT (See Figs. 7 and 11)

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

- Raise attachment lift to highest position with attachment lift control.
- Remove retainer spring from freewheel control rod.
- Push control rod in to disengage transmission and reinsert retainer spring into control rod hole now on back side of the bracket.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

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

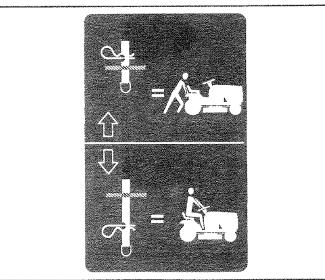


FIG. 11

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

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- · Check engine oil with tractor on level ground.
- 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.

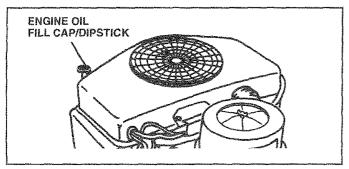


FIG. 12

ADD GASOLINE

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

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

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



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

TO START ENGINE (See Fig. 8)

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

- Depress clutch/brake pedal and set parking brake.
- Place motion control 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.

IMPORTANT: COLD STARTING FOR HYDRO (BELOW 40°F) - AFTER STARTING ENGINE AND BEFORE DRIVING, LET TRANSMISSION WARM UP FOR (1) MINUTE BY PLACING MOTION CONTROL LEVER IN NEUTRAL AND RELEASING CLUTCH/BRAKE PEDAL.

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

PURGE TRANSMISSION



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

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

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

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

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

- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move rnotion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and now ready for normal operation.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 10).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 13).
- 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.

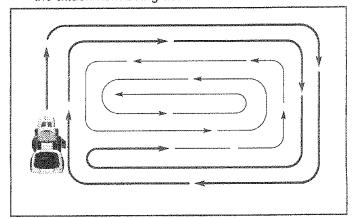


FIG. 13

FIL AS	AINTENANCE SCHEDULE LI IN DATES YOU COMPLETE EGULAR SERVICE		EFORE	EACH!	SE HOURS	HOURS VERY ?	SHOUR	SHOUP O'HOUP VERY	S HOUS	S SON	SERV	/ICE	DAT	ES
	Check Brake Operation	600		Section 1										
475/67500A	Check Tire Pressure	Barel .		8										
	Check for Loose Fasteners	W							8/					
R	Sharpen/Replace Mower Blades				4				-					
A	Lubrication Chart				W			The state of the s	September 1					
ľŤ	Check Battery Level/Recharge				6									
0	Clean Battery and Terminals				W				Brown .					
R	Check Transaxle Cooling				Barrer .									
20102	Adjust Blade Belt(s) Tension						3							
	Adjust Motion Drive Belt(s) Tension						1 5							
	Check Engine Oil Level	8/		8/									***************************************	
	Change Engine Oil		Que de		1,2,3				Barrer .					
E	Clean Air Filter				1 2									
N	Clean Air Screen				2		-							
G	Inspect Muffler/Spark Arrester					8								
	Replace Oil Filter (If equipped)						1,2							
NE	Clean Engine Cooling Fins						1 2					T. C.		
C.	Replace Spark Plug		and a company of the				V	Samo						
	Replace Air Filter Paper Cartridge						8 2							
	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.

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.

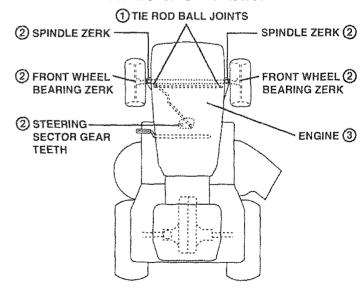
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

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) SPRAY SILICONE LUBRICANT (MOVE BOOTS TO LUBRICATE)
- (2) GENERAL PURPOSE GREASE
- ③ REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

BLADE CARE

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

BLADE REMOVAL (See Fig. 14)

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

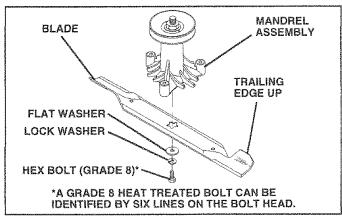


FIG. 14

TO SHARPEN BLADE (See Fig. 15)

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

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

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

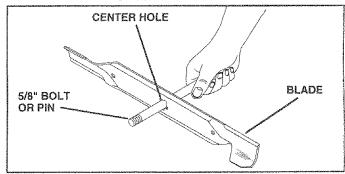


FIG. 15

BATTERY (See Fig. 16)

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.

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

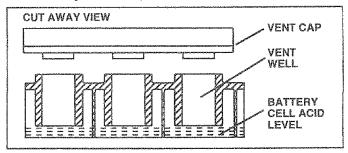


FIG. 16

TO CLEAN BATTERY AND TERMINALS

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

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

TRANSAXLE COOLING

The fan and cooling fins of transmission should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, no not use high pressure water or steam to clean transaxle.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer.

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

V-BELTS

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

ENGINE

LUBRICATION

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

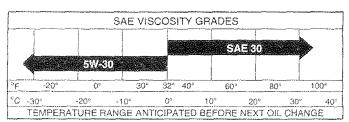


FIG. 17

NOTE: Although multi-viscosity oils (5W30, 10W30, etc.) improves starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°C. 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 continuous use.

TO CHANGE ENGINE OIL (See Figs. 17 and 18)

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.

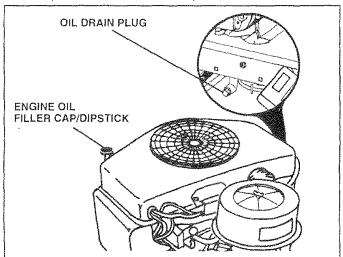


FIG. 18

CLEAN AIR SCREEN (See Fig. 19)

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

ENGINE COOLING FINS (See Fig. 19)

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

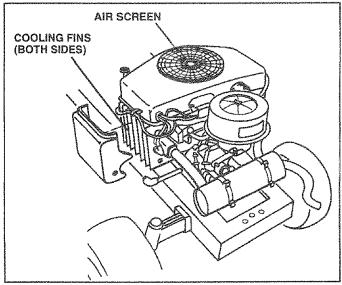


FIG. 19

AIR FILTER (See Fig. 20)

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

Service air cleaner more often under dusty conditions.

- Remove 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.

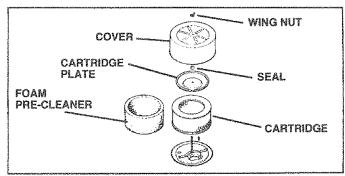


FIG. 20

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.

MUFFLER

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

SPARK PLUGS

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

IN-LINE FUEL FILTER (See Fig. 21)

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.

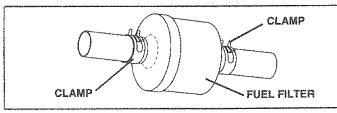


FIG. 21

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

TRACTOR

TO REMOVE NOWER (See Fig. 22)

- 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. 22 and 23)

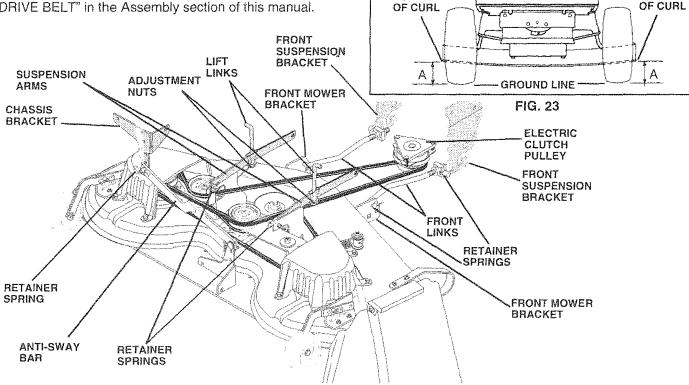
- · Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link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

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

воттом

Recheck measurements after adjusting.

BOTTOM



FRONT-TO-BACK ADJUSTMENT (See Figs. 24 and 25)IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF
THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS
NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS
EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so 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.

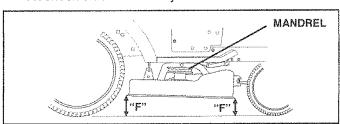
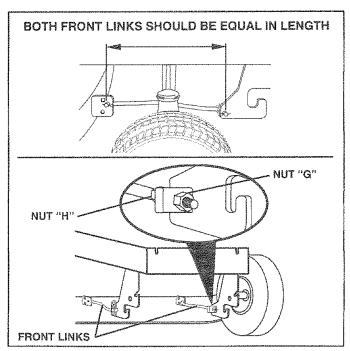


FIG. 24



TO REPLACE MOVER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 26) -

- Park tractor on a level surface. Engage parking brake.
- Remove four screws from L.H. mandrel cover and remove cover.
- Roll beit 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. 26) -

- 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.

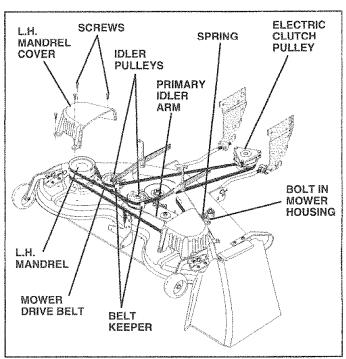


FIG. 26

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 27)

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 "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

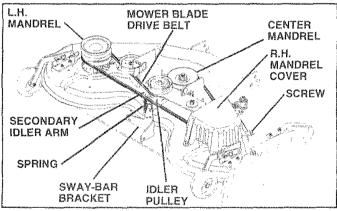


FIG. 27

TO ADJUST ATTACHMENT CLUTCH (See Fig. 28)

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 in side 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.

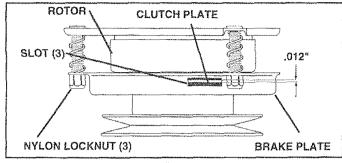


FIG. 28

TO ADJUST BRAKE (See Fig. 29)

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

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

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

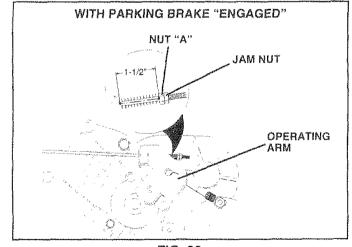


FIG. 29

TO REPLACE MOTION DRIVE BELT (See Fig. 30)

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.

 Remove mower (See "TO REMOVE MOWER" in this section of this manual.)

BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove belt from clutching and fan idler pulleys.
- Remove belt from transaxle pulley.
- Remove belt from engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers and remove from tractor.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of all belt keepers.
- Route belt on right side, coming from V-idler, towards back of tractor, above midspan belt keeper and to top of transaxle pulley.
- Route belt on left side, coming from engine pulley, towards back of tractor and through loop in midspan belt keeper.
- Place V part of belt into grooves on transaxle and fan idler pulleys, making sure to route belt inside of all belt keepers.
- Place belt around clutching idlers as shown, making sure to route belt inside of all belt keepers.
- Check to be sure belt is positioned correctly and is on proper side of all belt keepers.
- · Reinstall mower.

IMPORTANT: CHECK BRAKE ADJUSTMENT.

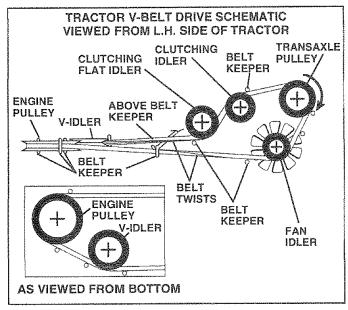


FIG. 30

TO ADJUST MOTION CONTROL LEVER (See Fig. 31)

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

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

- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
- Place motion control lever in neutral (N) position.
- While holding locknut, loosen jam nut
- Tighten locknut 1/4 turn.
- · While holding locknut, tighten jam nut securely.

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

Road test tractor after adjustment and repeat procedure if necessary.

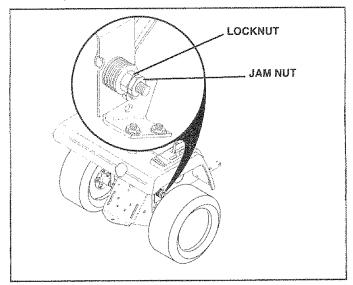


FIG. 31

TRANSMISSION REMOVAL/REPLACEMENT

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

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. 32) -

- 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. 32 and 33) -

- 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.

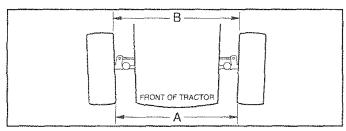


FIG. 32

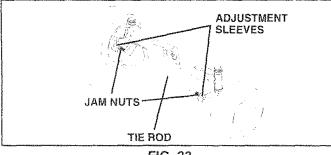


FIG. 33

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. 34) -

- 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.

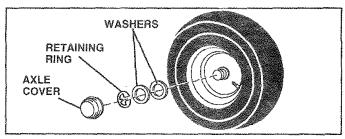


FIG. 34

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 Fig. 35)



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 good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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

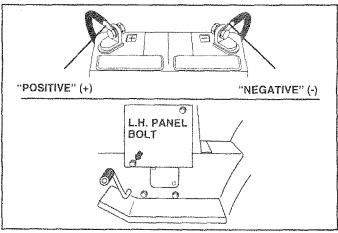


FIG. 35

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 36)

- 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.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 37)

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

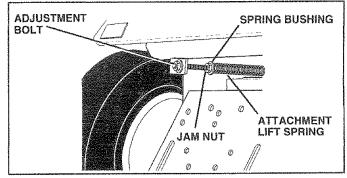


FIG. 36

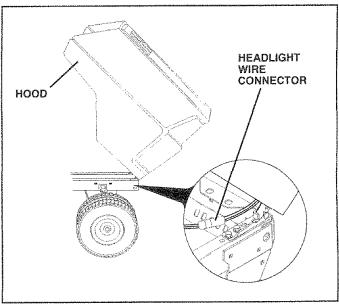


FIG. 37

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Figs. 38 & 39)

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. 40)

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

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

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

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable 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.

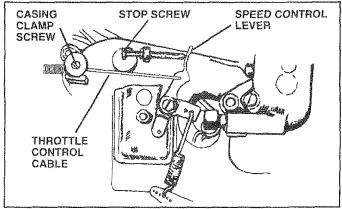


FIG. 38

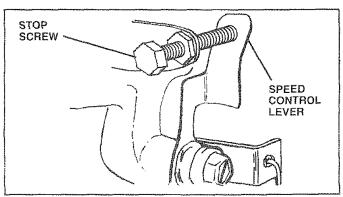


FIG. 39

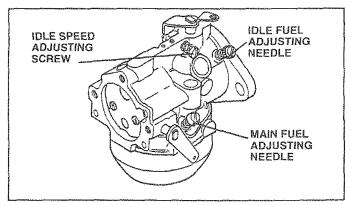


FIG. 40

STORAGE

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



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

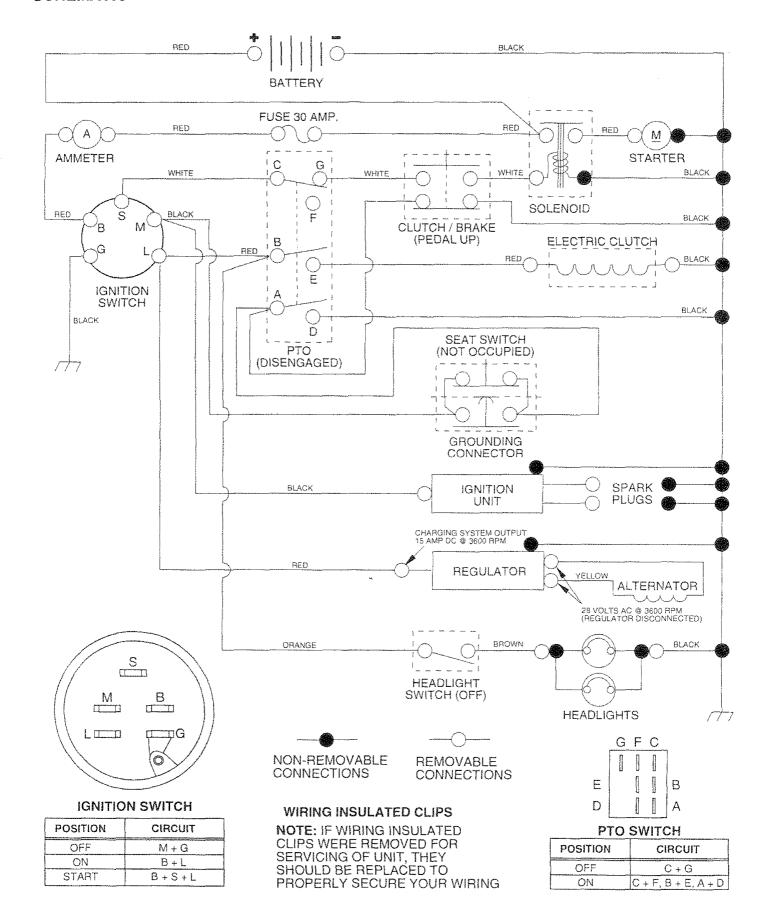
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service center/department. 10. Contact an authorized service center/department.
Hard to start	1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.	 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	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center/department.
Engine clicks but will not start	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. 	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual. 11. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	 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	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Loss of drive	Freewheel control in "disengaged" position. Motion drive belt worn, damaged or broken. Air trapped in transmission during shpment or servicing.	Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission.
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.
tera kinak terjah selimpinin jabah jandan serjah sebenah separa pendangan pendangan pendangan pendangan pendan	THE REPORT OF THE PROPERTY OF	ти не при типителни до пот при типителни на пот типителни на поставления на при типителни на при типителни на поставления на поставления на при типителни на поставления н

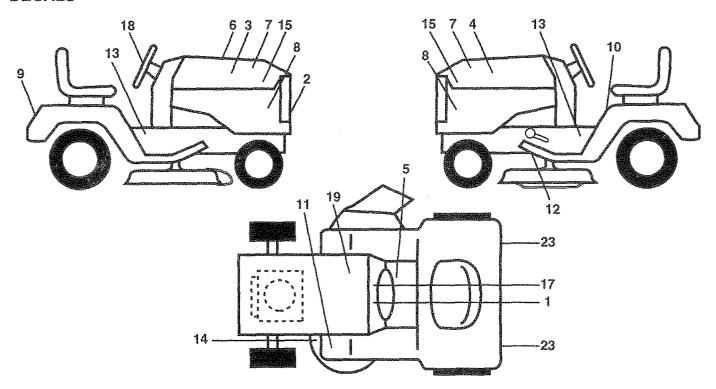
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

SCHEMATIC



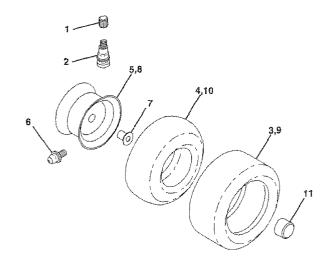
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
1	138955	Decal, Operating Instruction	12	138435	Decal, V-Belt Drive Schematic
2	138591	Decal, Grill GT 6000 USA Black	13	140431	Decal, Chassis, Hydro 44"
3	138042	Decal, Hood, Craftsman, RH	14	139346	Decal, V-Belt Schematic
4	138043	Decal, Hood, Craftsman, LH	15	138276	Decal Hood Insert Hd GT
5	140837	Decal, Brake Parking Saddle	17	138834	Decal, Dash
6	133644	Decal, Maintenance	18	132266	Decal, Insert Strg
7	138048	Decal, Side Panel	19	138047	Decal, Battery
8	128538	Decal, Side Panel	23	106202X	Reflector, Taillight
9	128314	Decal, Fender, Craftsman	+ -	140699	Manual, Öwner's (Eng)
10	137537	Decal, Caution		140700	Manual, Owner's (Span)
11	4900.1	Decal Clutch/Brake			• • • • • • • • • • • • • • • • • • • •

WHEELS & TIRES

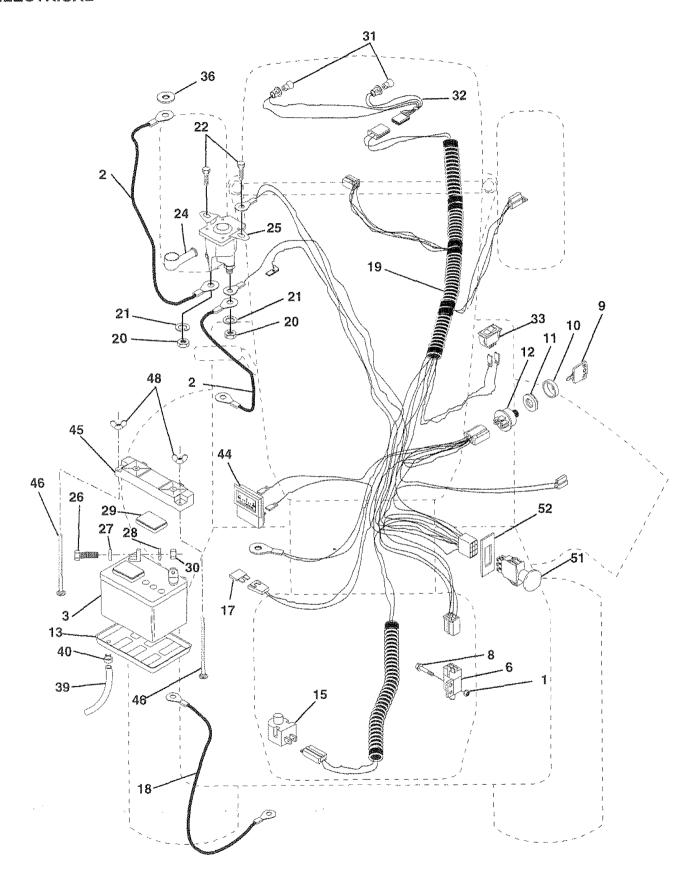


KEY NO.	PART NO.	DESCRIPTION				
1	59192	Cap, Valve, Tire				
2	65139	Stem, Valve				
2 3	106230X	Tire, Front				
4	8134H	Tube, Front (Service Item Only)				
5	106228X427	Rim Assembly, Front				
6	6856M	Fitting, Grease				
7	9040H	Bearing, Flange (Front Wheel Only)				
8	106277X427	Rim Assembly, Rear				
9	105588X	Tire, Rear				
10	7154J	Tube, Rear				
The state of the s	10411214	Tube, Rear Sulle Cour				
NOTE: All component dimensions given in U.S. inches						

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

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

ELECTRICAL



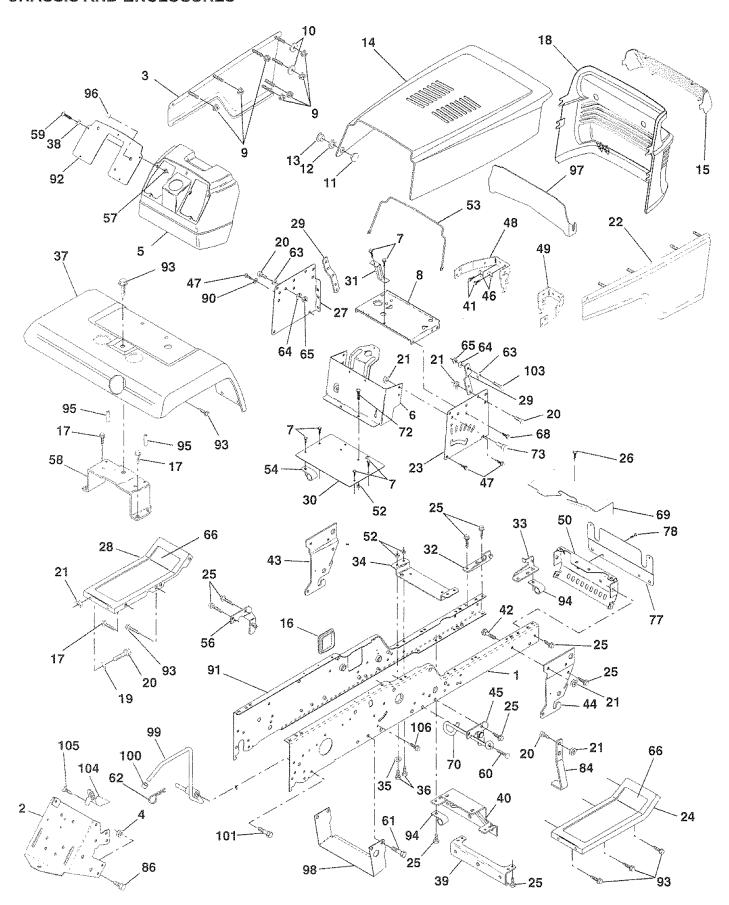
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

ELECTRICAL

KEY NO.		DESCRIPTION
15 17 18 19 20 21 22 24 25 26 27 28 29 30 31 32 33 36 39 40 44 45 46 48	7603J 121305X 108824X 121080X 140428 73350400 10090400 17720408 131563 138406 74760412 STD551125 STD551025 121264X STD541025 4152J 127441X 110712X 11150400 7697J 109596X 121433X	Nut Keps #10-32 Cable, Battery Battery Intlk Switch Screw Hex Washer Hd #10-32 x 1 Key Cover Switch Key Nut, Ignition Switch Switch, Ign Tray, Battery Switch, Plunger Fuse Cable, Ground Harness Ign. Nut, Jam Hex 1/4-20 Washer, Lock 1/4 Screw 1/4-20 x 1/2 Cover, Terminal Red Solenoid Bolt Hex Head 1/4-20 x 3/4 Washer, Lock 1/4 Washer 9/32 x 5/8 x 16 Ga Caps, Battery Nut Fin Hex 1/4-20 Bulb Light Harness Socket Light Switch, Light Washer, Lock Int. Tooth 1/4 Tube Plastic Clamp, Hose Ammeter Guard Terminal Bolt, Carriage 1/4-20 x 7-1/2 Nut, Wing 1/4-20 Switch, PTO Ring Retainer PTO

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

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730 CHASSIS AND ENCLOSURES



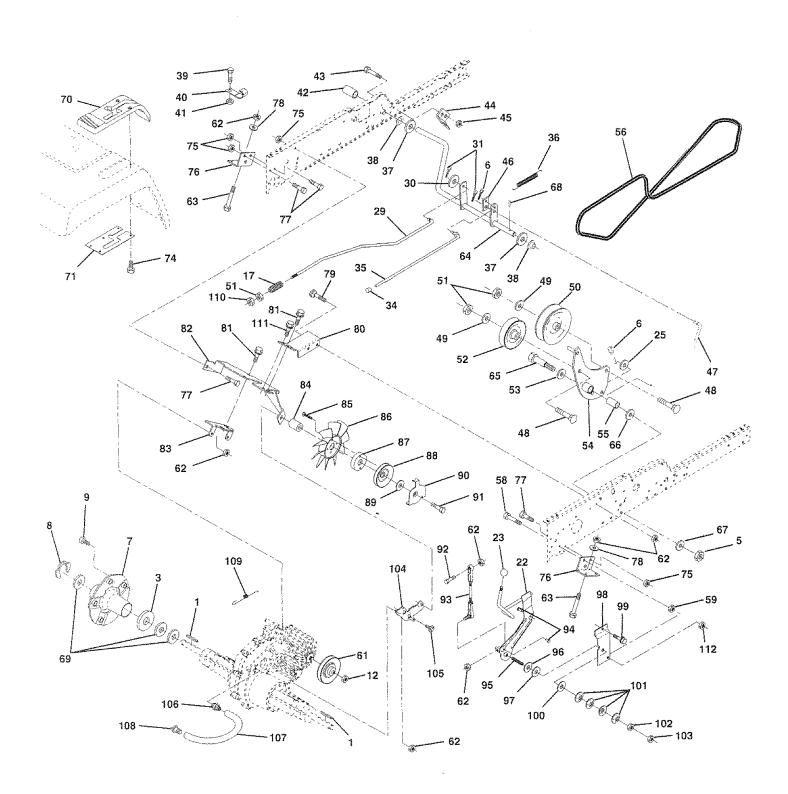
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	140505	Rail, Frame RH	46	10040400	Washer, Lock Hvy Helical 1/4
2	140506	Drawbar, Gt	47	17490608	Screw Thdrol 3/8-16 x 1/2
3	136671X459	Panel Asm., Side LH	48	136814	Bracket Asm., Pivot Hood Lh
4	73800700	Nut, Lock Hex 7/16 Unc	49	136813	Bracket Asm., Pivot Hood Rh
5 6	136696	Dash, Plastic Black	50	136575	Bracket, Chassis Front
6	139420	Dash Asm., Lower	52	73800500	Locknut, Hex W/Ins 5/16-18 Unc
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	53	137304	Rod, Support Hood
8	137563	Support, Battery	54	126470X	Clip, Insulated
9	108067X	Nut, Pal	56	138461	Bracket Asm., Susp Chassis Lh
10	19092016	Washer 9/32 x 1-1/4 x 16 Ga.	57	73510400	Nut, Keps Hex_1/4-20
11	137270	Rivet, Ratchet Male	58	137113	Bracket Asm., Fender
12	137269	Washer, Nylon_	59	74180412	Screw, Mach Cr 1/4-20 x 3/4
13	137271	Rivet, Ratchet Female	60	17490620	Screw Thdrol 3/8-16 x 1-1/4
14	136673X459	Hood Asm., Pnt	61	17490612	Screw Thd/Rol 3/8-16 x 3/4
15 16	136374	Lens, Bar Clear	62	4497H	Retainer, Spring
17	121794X	Cover, Access	63 64	19131614	Washer 13/32 x 1 x 14 Ga.
18	17490612 136373X428	Screw, Thdrol 3/8-16 x 3/4 Grille	65	10040600 73220600	Washer, Lock Hvy Hlcl Spr 3/8
19	19131312	Washer 13/32 x 13/16 x 12 Ga.	66	105466X	Nut, Fin Hex 3/8-16 Unc Pad, Footrest
20	74760616	Bolt, Fin Hex 3/8-16 x 1	68	17490508	Screw, Thdrol 5/16-18 x 1/2
21	73800600	Nut, Lock Hex W/Wsh 3/8-16 Unc	69	140022	Shield, Heat
22	136670X459	Panel Asm., Side RH	70	137159	Guide, Belt Mid Span
23	121045X	Panel, Dash Side RH	72	74180512	Screw, Mach Trhd 5/16-18 x 3/4
24	105464X459	Footrest, RH	73	74780616	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
25	17490612	Screw, Thdrol 3/8-16 x 3/4	77	137308	Shield, Front
26	17490512	Screw, Thdrol 5/16-18 x 3/4	78	17720408	Screw, Thd. Cut 1/4-20 x 1/2
27	121046X	Panel, Dash Side LH	84	138952	Stop, Over Center Mower
28	105465X459	Footrest, LH	86	74760716	Bolt, Fin Hex 7/16-14 Unc x 1
29	138193	Bracket, Support Dash	90	11050600	Washer, Lock External Tooth 3/8
30	140493	Saddle, Slkscr Vgt	91	140504	Rail, Frame Lh
31	137556	Brace, Support Steering	92	140941X013	Plate, Silkscreen Dash
32	136742	Bracket Asm., Frame Pivot Lh	93	17490608	Screw, Thdrol 3/8-16 x 1/2
33	136741	Bracket Asm., Frame Pivot Rh	94	100207K	Clip, Fuel Line
34	136963	Bracket, Engine Support Rear	95	105531X	Push Nut, Nylon
35	19111116	Washer 11/32 x 11/16 x 16 Ga.	96	8022J	Plug, Hole
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4	97	137373	Shield, Heat, Engine
37	140002X459	Fender, Pnt.		140503	Bracket Skid Chassis
38	19091216	Washer 9/32 x 3/4 x 16 Ga.	99	140871	Rod By Pass
39	136961	Bracket, Axle Front		124236X	Cap By Pass Rod
40	136962	Bracket, Support Axle/Engine		17490628	Screw Thdrol 3/8-16 x 1-3/4
41	74760408	Bolt, Fin Hex 1/4-20 Unc x 1/2		72110608	Bolt, Carriage 3/8-16 x 1 Gr. 5
42	72140608	Bolt, Carriage 3/8-16 x 1		142273	Lock, By Pass
43 44	136939	Bracket, Spnsn Front Lh		17490508	Screw, Thd 5/16-18 x 1/2
45	136940 138460	Bracket, Spnsn Front Rh	100	17580520	Bolt 5/16-18 x 1.25
40	130400	Bracket Asm., Susp Chassis Rh	NOT	F. All compon	ent dimensions diven in LLS inches

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

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

GROUND DRIVE



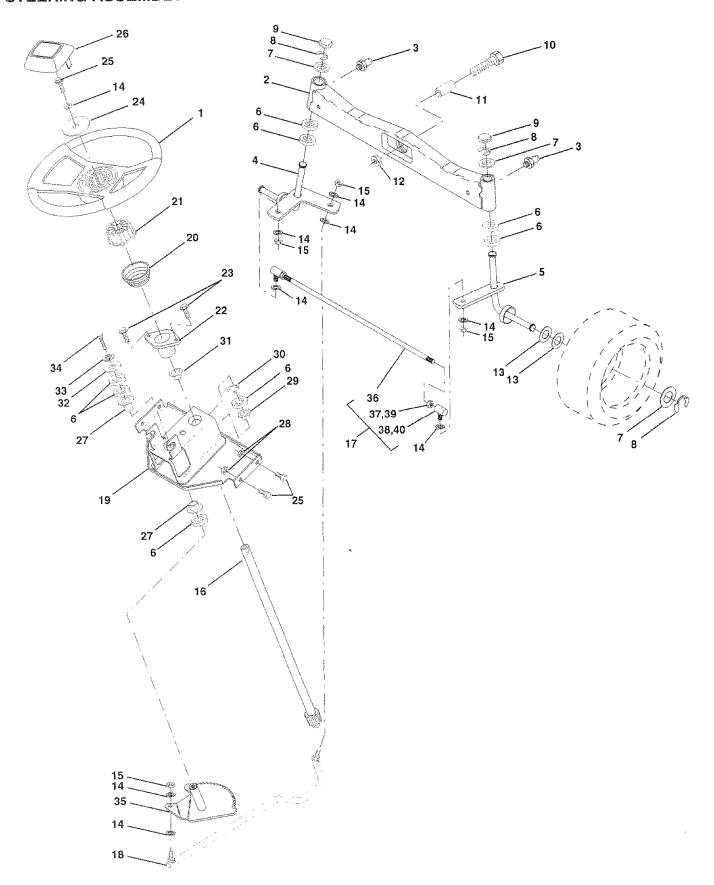
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
3 5 6 7 8 9 12 7 22 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4	7070E 7563R 73680600 76020412 140507 12000053 140080 73940800 140921 140498 106933X 19131316 140494 19131614 76020312 124236X 137648 138364 121749X 110895X 74321016 5304J 73631000 8883R 74760412 104601X 73800400 121358X 138228 72110614 19131413 131494 73800600 139123 207J 138390 105706X 140218 74760724 73220700 140488 73800500 74780548 137649 67609	Key 1/4 x 2.5 Washer Thrust Axle Harden Nut Crownlock 3/8-16 Pin Cotter 1/8 x 3/4 Wheel Hub Asm. Ring E Bolt Hub Nut Hex Jam Toplock 1/2-20 Spring Rod Brake Shaft Arm Asm Knob Washer 13/32 x 13/16 x 16 Ga Brake Rod Washer 13/32 x 1 x 14Ga Pin Cotter 3/32 x 3/4 Cap Plunger Rod Parking Brake Spring Extension Washer 25/32 x 1-1/4 x 16 Gauge Nyliner Screw Fin #10-24 x 1 Actuator Interlock Switch Nut Lock #10-24 Cover Pedal Bolt Hex Head 1/4-20 x 3/4 Bracket Interlock Nut Lock W/Insert 1/4-20 Retainer Spring Clutch Rod Bolt Carriage 3/8-16 x 1-3/4 Gr 5 Washer 13/32 x 7/8 x 13 Ga Pulley Idler Flat Nut Lock Hex 3/8-16 Pulley Idler Grooved Washer Hartdened Clutch Arm Asm Bearing, Idler V-Belt Bolt Fin Hex 7/16-14 x 1-1/2 Nut Hex 7/16-14 Pullery Transaxle Locknut Hex W/Washer Insert Bolt Fin Hex S/16-18 x 3 Shaft Asm Brake Parking Clutch Bolt Shoulder	102 103 104 105 106 107 108 109 110	140296 19131312 5142H 19332616 139989 140927 19091216 10040400 74760408 73800700 140481 74760716 19111212 72110505 140484 17490612 140482 140479 140490 17541020 140462 140491 140492 19131312 140489 17490644 74760520 140502 133835 23200528 141103 126874X 141004 17490624 126881X 59285 73560500 73350500 140480 17580408 142576 142577 142578 140929 73350600 88652 140343	Washer Hardened Washer 13/32 x 13/16 x 12 Ga Pin Roll Washer Console Hydro Fender Plate Console Shift Washer 9/32 x 3/4 x 16 Ga Washer Lock Hvy Helical 1/4 Bolt Fin Hex 1/4-20 x 1/2 Nut Lock Hex 7/16 Bracket Transaxle Bolt Fin Hex 7/16-14 x 1 Washer 11/32 x 3/4 x 12 Ga Bolt Carriage 5/16-18 x 5/8 Bracket Torque RH Screw Thdrol 3/8-16 x 3/4 Bracket Mount Torque/Fan Strap Torque Mid Spacer Screw #10-24 x 1-1/4 Fan 7" Hydro Adapter Fan Pulley Idler Washer 13/32 x 13/16 x 12 Ga Keeper Belt Screw Thdrol 3/8-16 x 2-3/4 Bolt Fin Hex 5/16-18 x 1.25 Link Shift Asm Fastner Christmas Tree Screw Set 5/16-18 x 1.5 Washer Nickel Plated Bearing Trust Bracket Shift Screw Thdrol 3/8-16 x 1-1/2 Washer Compression Washer Bellville Nut Hex Nylok Nut Hex Jam 5/16-18 Bracket Idler Screw Tap 1/4-20 x 1/2 Fitting Vent Hose Vent Hose Cap Vent Hose Spring Return Brake Nut Bolt Transaxle Hydro

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

STEERING ASSEMBLY



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

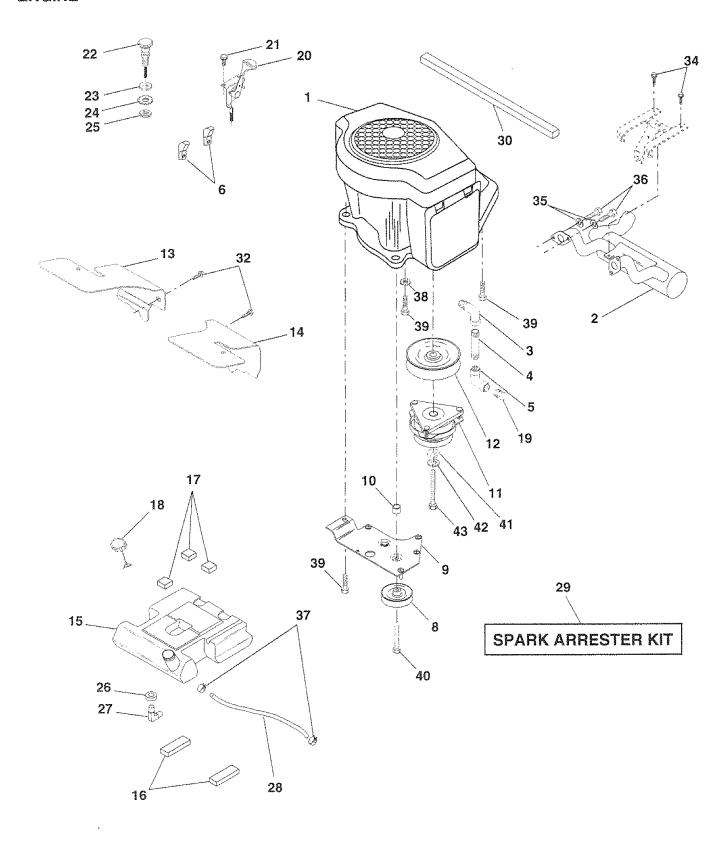
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14	121472X 137094 6855M 136960 136959 6266H 121748X 12000029 121232X 74781044 136518 73901000 121749X 10040600	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 Hicl Spr 3/8
15 16 17	73610600 102458X	Nut, Fin Hex 3/8-24 Unf Shaft Asm., Steering Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
	17431008 19133808 74780616 126805X 3366R 73800600 104239X 12000034 138136 19111610 10040500 74760512 138059 137156 73360600	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. Nut, Lock Hex W/Wsh 3/8-16 Unc 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

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

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

ENGINE



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

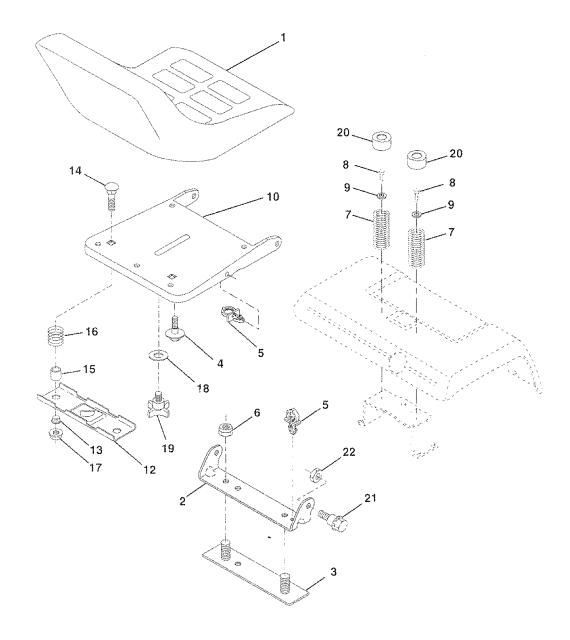
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	141948	Engine Kohler 18 HP Model MV18S-58560
2	144110	Muffler Asm Kohler VGT (Inc. Key No. 34)
3 4	13240300 13280328	Èlbow Street 3/8 NPT Nipple Pipe 3/8NPT X 3 - 1/2
5	13200320	Elbow STD 90 Degree 3/8 - 18 NPT
6	138129	Clamp Tube Double Engine
8 9	121361X 138559	Pulley V-Idler Stop Keeper Asm VGT
10	105432X	Bushing
11 12	137140 136907	Clutch Electric Pulley Engine VGT Elect Clutch
13	138486	Baffle Air LH Koh VGT
14 15	138487 127334X	Baffle Air RH Koh VGT Tank Fuel W/Sym Vented
16	109227X	Pad Spacer
17 18	106082X 123549X	Pad Spacer Cap Asm Fuel W/Sym Vented
19	13290300	Plug Oil Drain
20	133439	(Order From Engine Manufacturer) Control Throttle
21	17720410	Screw Hex Thd Cut 1/4 - 20 X 5/8
22 23	138672 19132616	Control Choke Washer 13/32 X 1 - 5/8 X 16 Ga
24	11050600	Washer Ext Tooth 3/8
25 26	73610600 3645J	Nut Fin Hex 3/8 - 24 UNF Bushing
27	139277	Stem Tank Fuel
28 29	7834R 132920	Fuel Line Spark Arrester Kit
30	105037X	Strip Foam
32 34	17490508 17720408	Screw Thdrol 5/16 - 18 X 1/2 Screw Thd Cut 1.4 - 20 x 1/2
35	10040500	Washer Lock 5/16
36 37	74570512 123487X	Screw Hex 5/16 - 16 UNC X 3/4 Clamp Hose
38	11050600	Lockwasher Ext Tooth 3/8
39 40	17490624 17490652	Screw Thdrol 3/8 - 16 X 1 - 1/2 TT Screw Thdrol 3/8 - 16 X 3 - 1/4
41	126197X	Washer 1-1/2 OD X 15/32 ID X .250
42 43	10040700 71170768	Washer Lock 7/16 Bolt Hex 7/16-20 X 4-1/4 Ga 5
70	11130100	WORLDON ITTO MO INT WALL

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

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

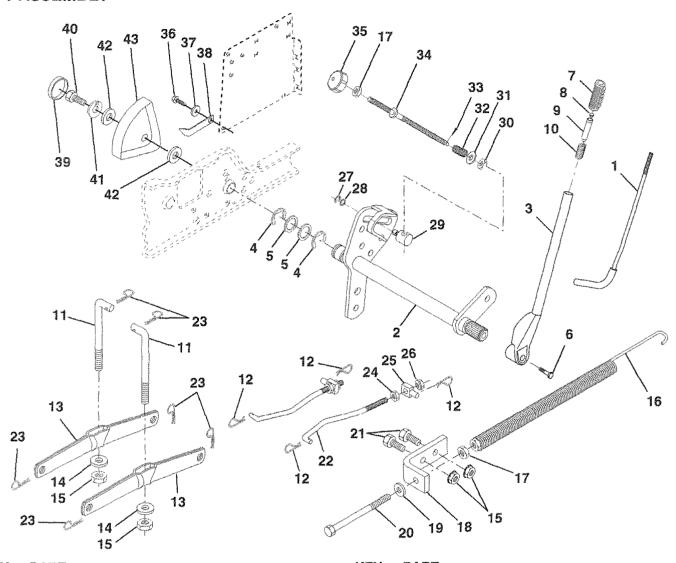
SEAT ASSEMBLY



KEY NO.	Y PART NO.	DESCRIPTION	KEY NO.	•	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 12 13	127439 140551 140675 127018X 140407 73800600 124181X 17490508 19131614 140552 121246X 121248X	Seat Bracket, Pivot Seat Strap, Fender Bolt, Shoulder 5/16-18 X .62 Clip, Push In Loicknut 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 Bracket, Mounting Switch Bushing, Snap	14 15 16 17 18 19 20 21 22 NOT	13 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	4300 1250X 3976X 171912 0068X 4238X 9888 680500	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 Unc Nut, Crownlock 5/16-18 Unc ent dimensions given in U.S. inches 4 mm

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

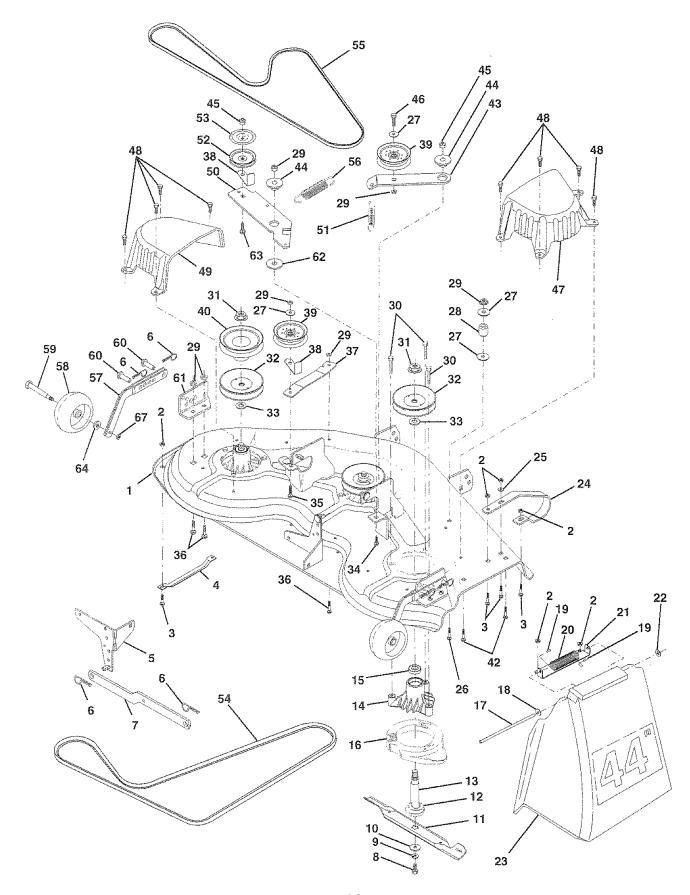
LIFT ASSEMBLY



1 121006X Rod Asm., Lever 24 73350800 Nut, Jam Hex 1/2-13 Unc 2 137295 Shaft Asm., Lift Vgt 25 130171 Trunnion 3 121002X Lever Asm., Lift Rh 26 73800800 Nut, Lock W/Wsh 1/2-13 Unc 4 12000022 E-Ring Truarc #5133-87 27 12000037 Ring, Klip #T5304-37 5 19292016 Washer 29/32 x 1-1/4 x 16 Ga. 28 19151216 Washer 15/32 x 3/4 x 16 Ga. 6 74780624 Bolt, Fin Hex 3/8-16 x 1-1/2 29 110810X Trunnion, Dp Stop Dbl Thds Plt 7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
3 121002X Lever Asm., Lift Rh 26 73800800 Nut, Lock W/Wsh 1/2-13 Unc 4 12000022 E-Ring Truarc #5133-87 27 12000037 Ring, Klip #T5304-37 5 19292016 Washer 29/32 x 1-1/4 x 16 Ga. 28 19151216 Washer 15/32 x 3/4 x 16 Ga. 6 74780624 Bolt, Fin Hex 3/8-16 x 1-1/2 29 110810X Trunnion, Dp Stop Dbl Thds Plt 7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 <td< td=""><td>1</td><td>121006X</td><td>Rod Asm., Lever</td><td></td><td>73350800</td><td>Nut, Jam Hex 1/2-13 Unc</td></td<>	1	121006X	Rod Asm., Lever		73350800	Nut, Jam Hex 1/2-13 Unc
4 12000022 E-Ring Truarc #5133-87 27 12000037 Ring, Klip #T5304-37 5 19292016 Washer 29/32 x 1-1/4 x 16 Ga. 28 19151216 Washer 15/32 x 3/4 x 16 Ga. 6 74780624 Bolt, Fin Hex 3/8-16 x 1-1/2 29 110810X Trunnion, Dp Stop Dbl Thds Plt 7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 7380600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 1		137295	Shaft Asm., Lift Vgt		130171	
5 19292016 Washer 29/32 x 1-1/4 x 16 Ga. 28 19151216 Washer 15/32 x 3/4 x 16 Ga. 6 74780624 Bolt, Fin Hex 3/8-16 x 1-1/2 29 110810X Trunnion, Dp Stop Dbl Thds Plt 7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Assist 41 <t< td=""><td></td><td>121002X</td><td></td><td></td><td>73800800</td><td>Nut, Lock W/Wsh 1/2-13 Unc</td></t<>		121002X			73800800	Nut, Lock W/Wsh 1/2-13 Unc
6 74780624 Bolt, Fin Hex 3/8-16 x 1-1/2 7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 1 142369 Link Lift 34 137167 Rod, Adj Lift 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 3139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 Unc 373800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 39 123935X Plug, Hole 39 123935X Plug, Hole 39 123935X Plug, Hole 39 123935X Plug, Hole 39 123935X Scale, Indicator Height 30 123934X Scale, Indicator Height 30 123934X Scale, Indicator Height 30 123934X Scale, Indicator Height 1007E: All component dimensions given in U.S. inches		12000022			12000037	
7 125631X Grip, Handle Fluted 30 110807X Nut, Special 8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 22 127218 Link, Front NOTE: All component dimensions given in U.S. inches		19292016	Washer 29/32 x 1-1/4 x 16 Ga.			
8 122365X Button, Plunger 31 19131016 Washer 13/32 x 5/8 x 16 Ga. 9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 16 674A247 Spring Asm., Assist Lift 39 123935X Pointer, Pnt Height Indicator 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 22 127218 Link, Front NOTE: All component dimensions given in U.S. inches	6	74780624	Bolt, Fin Hex 3/8-16 x 1-1/2		110810X	Trunnion, Dp Stop Dbl Thds Plt
9 122364X Plunger, Lever Lift 32 137150 Spring, Compression Inf Hgt 10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 Link, Front NOTE: All component dimensions given in U.S. inches		125631X	Grip, Handle Fluted		110807X	
10 2876H Spring 2-1/8" 33 76020308 Pin, Cotter 3/32 x 1/2 11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1	8	122365X	Button, Plunger	31	19131016	
11 142369 Link Lift 34 137167 Rod, Adj Lift 12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches	9	122364X				Spring, Compression Inf Hgt
12 3146R Retainer, Spring 35 138057 Knob, Inf 3/8-16 Unc 13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches	10	2876H	Spring 2-1/8"			
13 139867 Arm, Suspension Vgt 36 17490612 Screw, Thdrol 3/8-16 x 3/4 14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches	11	142369	Link Lift	34	137167	
14 140302 Bearing, Pvt. Lift Spherical 37 120529X Washer, Nylon 15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches		3146R	Retainer, Spring		138057	
15 73800600 Nut, Lock Hex W/Wsh 3/8-16 Unc 38 123933X505 Pointer, Pnt Height Indicator 16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches		139867				
16 674A247 Spring Asm., Assist Lift 39 123935X Plug, Hole 17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches	14	140302	Bearing, Pvt. Lift Spherical	37	120529X	
17 73350600 Nut, Hex Jam 3/8-16 Unc 40 74780516 Bolt, Fin Hex 5/16-18 x 1 18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches		73800600				
18 5329J Bracket, Spring Assist 41 10040500 Washer, Lock Hvy Hicl Spr 5/16 19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches						
19 19131316 Washer 13/32 x 13/16 x 16 Ga. 42 19112410 Washer 11/32 x 1-1/2 x 10 Ga. 20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 NOTE: All component dimensions given in U.S. inches						
20 5328J Bolt, Adjust Spring Assist 43 123934X Scale, Indicator Height 21 74760616 Bolt, Fin Hex 3/8-16 x 1 22 127218 Link, Front NOTE: All component dimensions given in U.S. inches		5329J	Bracket, Spring Assist			
21 74760616 Bolt, Fin Hex 3/8-16 x 1 22 127218 Link, Front NOTE: All component dimensions given in U.S. inches						
22 127218 Link, Front NOTE: All component dimensions given in U.S. inches				43	123934X	Scale, Indicator Height
		74760616	Bolt, Fin Hex 3/8-16 x 1			
23 4939M Retainer, Spring 1 inch = 25.4 mm				NOT		
	23	4939M	Retainer, Spring		1 inch = 25 .	4 mm

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

44" MOWER DECK

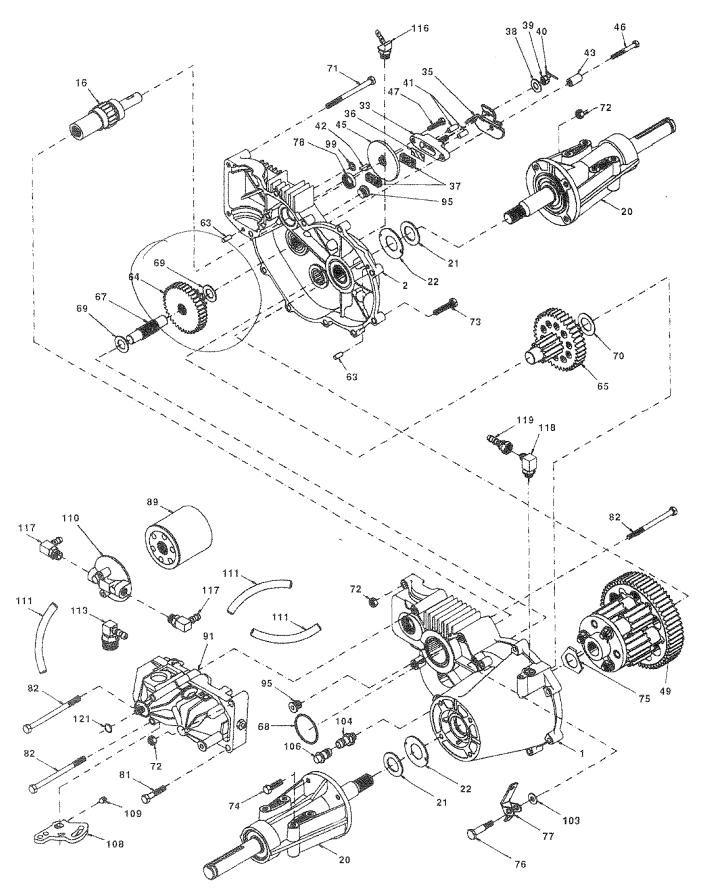


18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

44" MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 0 1 1 1 2 3 1 4 1 5 6 1 7	140579 73800500 72110506 7631J 138457 4939M 130832 850857 10030600 140296 130652 129895 137553 137152 110485X 136929 106735X	Deck Asm., Mower 44" Vented Locknut, Hex W/Ins 5/16-18 Unc Bolt, Carriage 5/16-18 x 3/4 Runner, Mower LH Bracket Asm., Sway Bar Retainer, Spring Arm Suspension, Rear Bolt 3/8-24 x 1.25 Gr. 8 Patched Washer, Lock Hvy 3/8 Unplated Washer, Hard Blade Mower Vented Blade (3 Required) Bearing, Ball #6204 (Mandrel) Shaft Asm., W/Lower Brg (Includes Key No. 12) Housing, Mandrel 44" Vent Bearing, Ball Mandrel Stripper, Mower Vented Rod, Hinge	35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 53	72110616 72110608 137166 137554 131494 136572 72140506 136460 122052X 73680600 74760628 137200 137729 136574 137272 137273 139245 137789	Bolt, Carriage 3/8-16 x 2 Bolt, Carriage 3/8-16 x 1 Gr. 5 Stiffener, Arm Idler Keeper, Belt Idler Pulley, Idler Flat Pulley, Driven Bolt, Carriage 5/16-18 Unc x 3/4 Arm, Idler Secondary Spacer, Retainer Nut, Crownlock 3/8-16 Unc Bolt, Fin Hex 3/8-16 Unc x 1-3/4 Cover, Mandrel RH Screw, Thd Roll 1/4-20 x 5/8 Cover, Mandrel LH Arm, Idler Primary Spring, Secondary Pulley, Idler V Groove Shield, Idler
18 19 20 21 22 23 24 25 26 27 28 29 30 31	19111016 105304X 123713X 137607 110452X 109785X 136321 19111216 72110614 19131316 132823 73800600 138776 137266 129861 129963 72140610	Washer 11/32 x 5/8 x 16 Ga. Cap, Sleeve Spring, Torsion Deflector Bracket, Deflector Nut, Push Shield, Deflector Mower Runner, RH Washer 11/32 x 3/4 x 16 Ga. Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5 Washer 13/32 x 13/16 x 16 Ga. Spacer, Spring Stop Idler Nut, Lock Hex W/Wsh 3/8-16 Unc Screw Thdrol Hex Head Nut, Flg Top Lock Cntr 9/16 Pulley, Mandrel Washer, Spacer Mower Vented Bolt, Carriage 3/8-16 x 1-1/4	54 55 56 57 58 59 60 61 62 63 64 67	131264 131290 138687 136577 137644 139031 136573 133943 72110612 19121414 73930600 143651	V-Belt, Mower Primary V-Belt, Mower Secondary Spring, Primary Bar Asm., Wheel Gauge Wheel, Gauge Bolt, Shoulder Pin, Clevis Bracket, Wheel Gauge Washer Hardened Bolt Carriage 3/8-16 x 1-1/2 Washer 3/8 x 3/4 x 14Ga Nut, Centerlock 3/8-16 Mandrel Assembly (Includes Key Nos. 8-10, 12-15, 31 and 33) nent dimensions given in U.S. inches

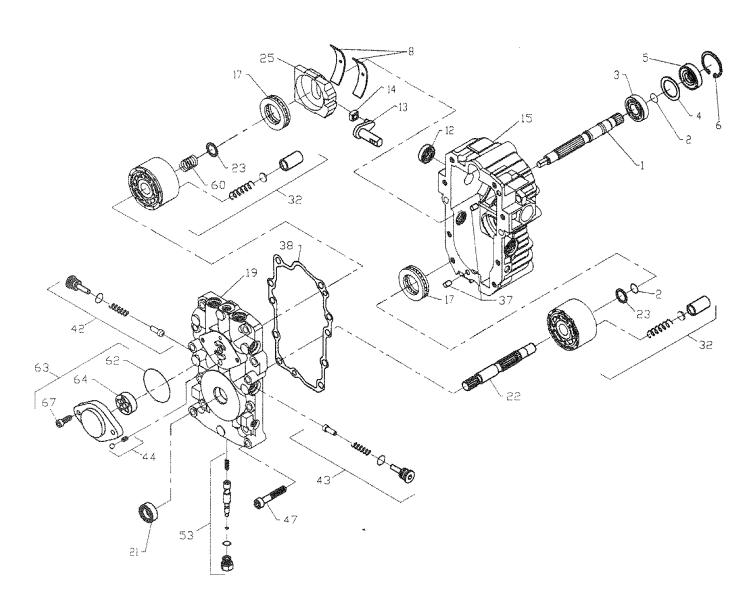
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 214-3010



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 214-3010

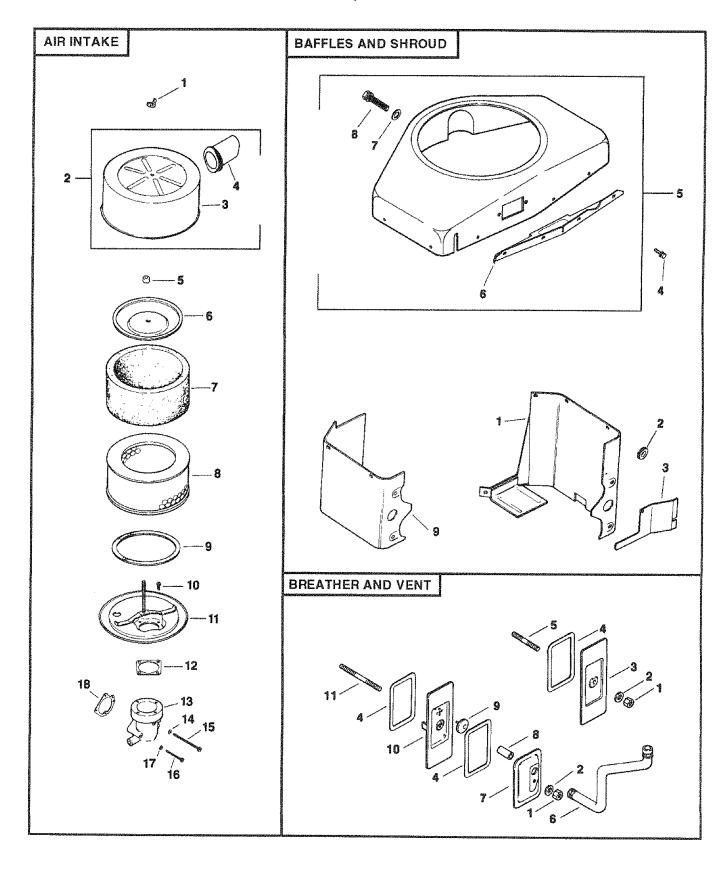
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	142874 142875	Assembly, Housing, LH Assembly, Housing, RH	72 73	142903 142904	Locknut, Hex 5/16-18 Bolt, Hex 5/16-18 x 1-1/2
16	142876	Brake Shaft Assembly	74	142905	Hex Cap Screw 5/16-18 x 1
20	142877	Axle Mounting Horn Assembly	75	142906	Washer, Differential
21	142878	Washer 1.0 x 1.63 x .08	76	142907	Shoulder Bolt
22	142879	Washer 1.0 x 2.06 x .09	77	142908	Freewheel Actuating Arm
33	142929	Brake Yoke Assembly	78	142909	Oil Seal .625 x 1.0 x .25
35	142880	Brake Arm	81	142910	Bolt, Hex 5/16-18 x 1-3/4
36	142882	Puck Plate	82	142911	Bolt 5/16-18 x 4-1/2
37	142883	Brake Puck	89	142912	Filter, Spin On
38	142884	Washer 7/8 O.D. x 7/16 x .060	91 95	142913 142914	Pump, BDU-10L-118
39	142885	Nut, Castle 5/16-24	99	142915	Plug, Straight Thread Washer 11/32 x 9/16
40	142886	Cotter Pin	103	142916	Washer
41 42	142887 142888	Brake Actuating Pin Hi Pro Key		142917	Vent Cap Assembly
43	142889	Spacer		142918	Fitting O-Ring Assembly
45	142890	Brake Disc		142919	Control Arm
46	142891	Bolt 1/4-20 x 1-1/2		142920	Set Screw
47	142892	Bolt 1/4-20 x 1		142921	Filter Head
49	142893	Differential Assembly	111		Hose 5/16 x 12
63	142894	Dowel Pin	113	142923	Fitting, 90° 7/8 SAE
64	142896	Reduction Gear,	116	142924	Fitting, 45° 9/16
٥.	112000	14 Teeth to 38 Teeth		142925	Fitting, 90° 9/16 SAE
65	142897	Final Drive Pinion Assembly	118	142926	Fitting, 90° SAE, #6 Flare, Male
67	142898	Jack Shaft	119	142927	Fitting, 90° SAE, #6 Flare, Female
68	142899	O-Ring	121	142928	Wire Retaining Ring
69	142900	Washer 5/8 X 1-5/32			
70	142901	Washer 7/8 X 1-1/2	NOT		ent dimensions given in U.S. inches
71	142902	Bolt, Hex 5/16-18 x 3.5		1 inch = 25.4	4 mm

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730 HYDRO GEAR PUMP - MODEL NUMBER BU-10L-118



4 4 44 11	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 8 2 3 1 4 5 7 9 1 2 2 3	144569 122716X 122745X 122715X 122700X 122699X 122767X 122717X 122748X 122748X 122748X 144571 122770X 144572 1227722X 144573 144573	Shaft, Pump Ring, Retaining Bearing, Ball Spacer Seal, Lip Ring, Retaining Bearing, Cradle Seal, Lip Arm, Trunnion Guide, Slot Housing Kit, Transmission Bearing, Thrust, Ball Center Section Kit Seal, Lip Shaft, Motor Washer, Block Thrust	25 32 37 38 42 43 44 47 53 60 62 63 64	127148X 144577 122786X 122718X 144578 144579 122752X 127153X 144580 144581 144582 144583 144584	Swashplate, Variable Block Assembly Pin, Stainless, Headless Gasket, Center Section Check Valve Kit Check Valve Kit Charge Relief Kit Screw, Socket Head, Cap Bypass Valve Kit Block Spring O-Ring Charge Pump Kit Gerotor Assembly Screw, Socket Head, Cap Pump Assembly, Complete

18 HP 44" TRACTOR - - MODEL NUMBER 917.257730



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

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)		
	231032 52 082 04	Seal, Element Cover Cover, Air Cleaner Element	5	52 755 70	Kit, Blower Housing (Includes Key Numbers 6 thru 8)		
7 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	NOT	ILLUSTRATE			
12	277093 52 054 39	Gasket, Air Cleaner (2) Elbow, Air Intake		52 113 46	Decal, Horsepower (3)		
14	X-25-79 X-50-37	Washer, Plain #10 Screw, Slotted Pan Head		ATHER & VEN	IT		
15	X-50-37	#10-32 x 2-1/4	LITT	.P4 FIIITI QL V II\	• •		
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	4	X-81-1	Nut, Hex 1/4-20 (2)		
18	25 041 06	#10 (2) Gasket, Air Cleaner Elbow	2	X-25-12 52 096 18	Washer, Plain 1/4 (2) Cover, #2 Cylinder Valve		
NOT	ILLUSTRATE		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		

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

1/4-20 x 3-1/4

Hose, Breather

Seal, Breather

Valve, Umbrella

Cover, #1 Upper Cylinder Valve

Cover, #1 Lower Cylinder Valve Stud, #1 Cylinder Valve Cover

52 326 12

52 096 08

52 032 04

52 462 01

52 096 22 11 275220

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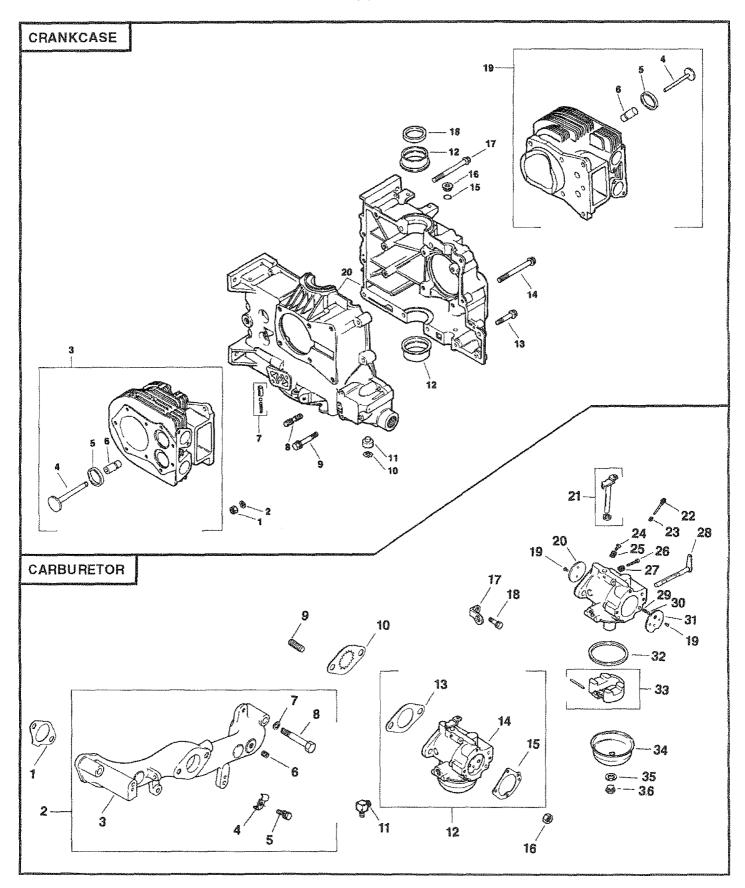
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18 HP 44" TRACTOR - - MODEL NUMBER 917.257730



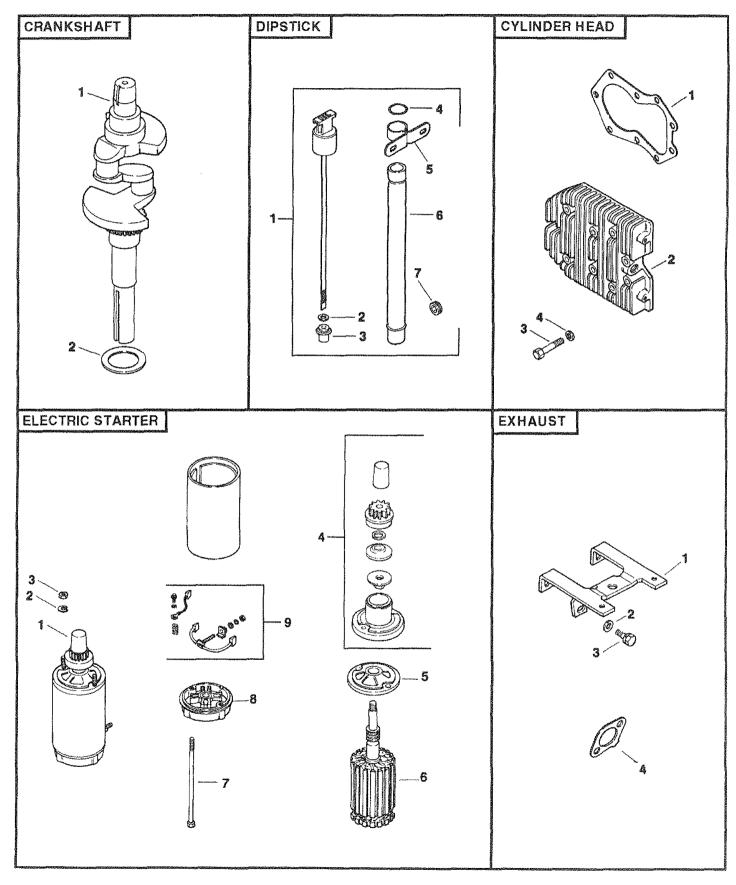
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560

CRANKCASE				CARBURETOR		
KEY PART NO. NO.	DES	CRIPTION	KEY NO.	PART NO.	DESCRIPTION	
1 X-82-2 2 52 468 3 82 759	3 12 Wasł 5 16 Kit, #	Nut, Hex 5/16-18 (12) Washer, Flat 5/16 (12) Kit, #1 Cylinder Barrel (Includes Key Numbers 4 thru 6) Valve, Exhaust Insert, Valve Seat (2) Guide, Valve (2) Kit, Oil Relief Step Stud 5/16-18 x 3/4, 3/8-16 x 5/8, 2" Long (12) Screw, Hex Flange 5/16-18 x 2 (2) Ring, Retaining Shaft, Governor Bearing, Sleeve .010" (2) Bearing, Sleeve .020" (2) Screw, Hex Flange 5/16-18 x 1-1/2 (3) Screw, Hex Flange 3/8-16 x 3-5/8 (2) O-Ring Plug Screw, Hex Flange 5/16-18 x 3-1/2 (8) Seal, Oil, Front Kit, #2 Cylinder Barrel (Includes Key Numbers 4 thru 6) Crankcase (Service with Short Block, Part Number 82 522 30)	1 2	52 041 09 52 755 91	Gasket, Intake (2) Kit, Manifold (Includes Key Numbers 3 thru 8)	
4 52 016 5 52 031 6 52 316 7 52 758	005 Valve 01 Inser 006 Guide		3 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	2 12 Step 3/8-1	Stud 5/16-18 x 3/4, 6 x 5/8, 2" Long (12)	7 8	235778 X-67-97	Clamp, Cable (2) Screw, Hex Washer Head	
9 25 086 10 X-269 11 52 076 12 52 030 52 030 52 030	.43 Ring, 3.05 Shaft 0.10 Beari 0.11 Beari	Screw, Hex Flange 5/16-18 x 2 (2) Ring, Retaining Shaft, Governor Bearing, Sleeve, Standard (2) Bearing, Sleeve .010" (2) Bearing, Sleeve .020" (2) Screw, Hex Flange	9 10 11 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 Screv	w, Hex Flange	13 14	271030 52 053 54	Gasket, Carburetor (2) Carburetor Assembly (Information	
14 25 086	3/8-1 Screv	5/16-18 x 1-1/2 (3) Screw, Hex Flange 3/8-16 x 3-5/8 (2) O-Ring Plug Screw, Hex Flange 5/16-18 x 3-1/2 (8) Seal, Oil, Front Kit, #2 Cylinder Barrel (Includes Key Numbers 4 thru 6) Crankcase (Service with Short			Only - Not Available Separately) (Includes Key Numbers 18 thru 35)	
15 52 14 ⁻ 16 52 139 17 25 086	08 Plug 11 Screv			25 041 06 X-77-2 232867 X-67-62	Gasket, Air Öleaner Nut 5/16 (2) Strap, Lifting Screw, Hex Washer Head	
18 52 032 19 82 758 20	2 10 Seal, 5 17 Kit, # (Inclu Cran		19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	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

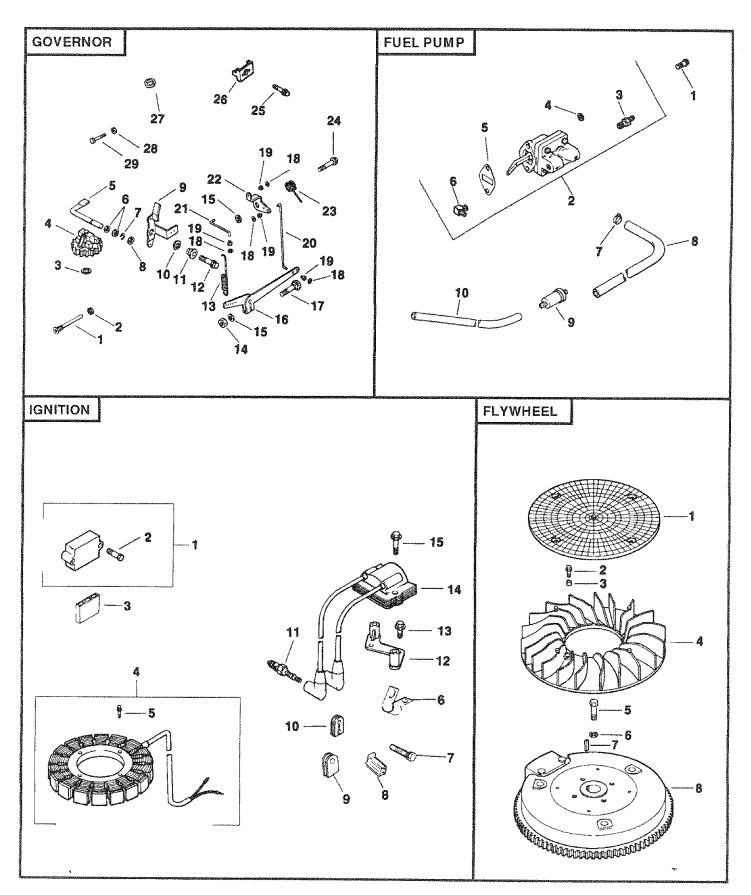
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

CRANKSHAFT				ELECTRIC STARTER			
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION		
1 2 DIP	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.)	3 4 5 6	52 098 12 X-20-1 X-81-1 82 755 26 52 081 07 52 170 05	Starter Assembly (Includes Key Numbers 4 thru 9) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive Cap, Drive End Armatric (0)		
	PART NO.	DESCRIPTION	7 52 211 01 8 52 227 10 9 82 755 28		Bolt, Thru (2) Cap, Commutator End Kit, Brush		
1 2 3	52 038 14 X-25-44 52 032 14	Dipstick Assembly (Includes Key Numbers 2 and 3) Washer, Plain 5/16 Seal, Rubber		ILLUSTRATE 25 450 03	D Tag, Caution		
4	41 153 01 52 126 11	O-Ring Bracket, Oil Tube Support Tube, Oil Fill 11-7/8 Plug, Hex, Countersunk 3/4 N.P.T.F.	EXHAUST				
5 6 7	52 123 20 47 139 01			PART NO.	DESCRIPTION		
	INDER HEAD		1 2 3 4	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)		
	PART NO.	DESCRIPTION	NOTE: All component dimensions given i 1 inch = 25.4 mm				
1 2 3 4	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)			.4 mm		

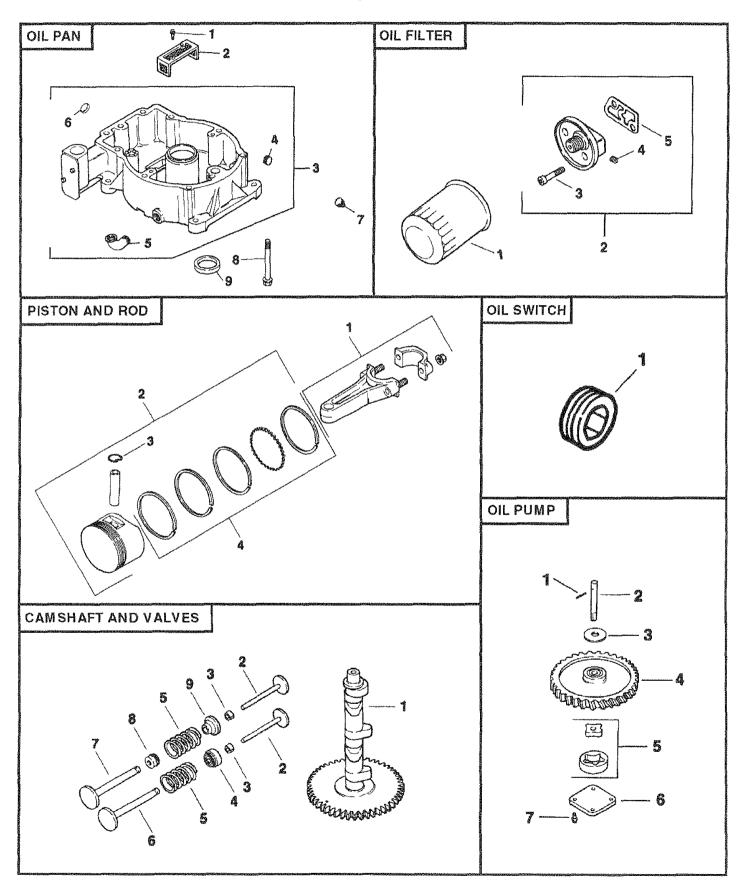
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

FLYWHEEL		FUEL PUMP	FUEL PUMP			
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION			
1 25 162 01 2 25 086 21	Screen, Grass Screw, Hex Washer Head	1 47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)			
	1/4-20 x 5/8 (4) Spacer (4)	2 52 559 01	Pump, Fuel Assembly (Includes Key Numbers 3 thru 6)			
3 25 112 04 4 25 157 01 5 25 086 24 6 52 468 15 7 X-286-17 8 52 025 36	Fan Screw, Hex Machine 3/8-24 x 1-1/4 Washer, Plain Key, Square 3/16 x 7/8 Flywheel	3 X-380-1 4 X-25-63 5 25 041 09 6 25 155 02 7 X-426-9 8 52 353 18 9 25 050 03	Connector, Straight Washer, Plain 1/4 (2) Gasket, Fuel Pump Connector, Hose Clamp, Hose (4) Line, Fuel, 8" Filter, Fuel			
GOVERNOR		10 15 353 04	Line, Fuel, 11-1/2"			
KEY PART NO. NO.	DESCRIPTION	IGNITION				
1 231355 2 X-25-12 3 237022	Pin, Governor Stop Washer, Plain 1/4 Washer, Thrust	KEY PART NO. NO.	DESCRIPTION			
4 A-235743-S 5 52 078 04	Kit, Governor Gear Shaft, Governor Cross	1 25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)			
6 X-25-102	Washer, Plain 1/4 (2)	2 X-132-5 3 236602	Screw, Hex Cap 1/4-20 x 5/8 (2)			
7 X-269-28 8 X-25-72	Retainer, Governor Washer, Plain 1/4 (2)	4 237878	Connector, 3 Contact Kit, Stator (Includes Key Number 5)			
9 52 090 23 10 277341	Lever, Speed Control Washer, Tension	5 X-67-51 6 210281	Screw, Hex Cap #10-24 x 3/4 (2) Clip (2)			
11 52 158 07 12 25 086 1 5	Bushing, Throttle Control Lever Screw, Hex Washer Head	7 X-67-64	Screw, Hex Washer Head #10-32 x 7/16			
13 52 089 07	1/4-20 x 1 Spring, Governor	8 41 155 03 9 220297	Connector, 2 Contact Grommet, Rubber			
14 X-81-1 15 X-25-63	Nut, Ĥex 1/4-20 Washer Plain 1/4	10 52 313 02 11 52 132 02	Grommet Spark Plug (2)			
16 52 186 09 17 52 211 04	Arm, Governor Screw, Round Head, Square Neck	12 52 126 08 13 25 086 15	Bracket, Module Screw, Hex Washer Head			
	1/4-20 x 1		1/4-20 x 1 (2)			
18 25 141 03 19 25 158 08	Ring, Retaining (4) Bushing, Linkage Retaining (4)	14 52 584 02 15 25 086 16	Module, Ignition Screw, Hex Washer Head			
20 52 079 07 21 52 079 06	Linkage, Governor Linkage, Throttle		1/4-20 x 7/8 (2)			
22 52 090 14 23 52 089 08	Lever, Throttle	NOT ILLUSTRATE 47 518 33				
24 25 086 21	Spring, Torsion Screw, Hex Washer Head	4/51033	Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push			
25 X-67-97	1/4-20 x 5/8 Screw, Hex Washer Head #10-24 x 3/8 (3)	52 518 19	On Tab Terminals) Lead, White, Module To Connector (19-1/2", 14 Gauge, Insulated Push			
26 235778 27 25 431 01	Clamp, Cable (3) Bushing, Speed Control Lever		On Tab, Uninsulated Push On Tab Terminals)			
28 X-70-3 29 52 086 05	Nut, Hex #10-32 Screw, Hex Head #10-32 x 7/8	NOTE: All compoint inch = 25	nent dimensions given in U.S. inches 5.4 mm			

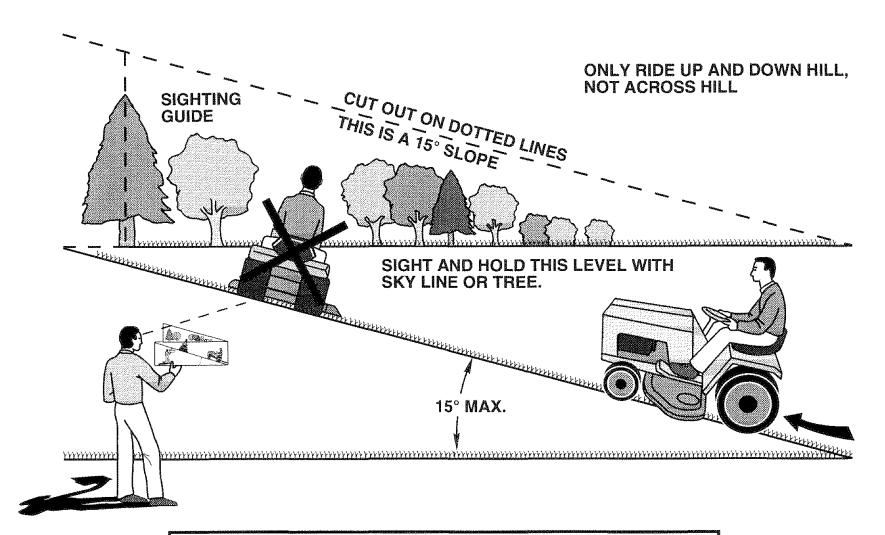
18 HP 44" TRACTOR - - MODEL NUMBER 917.257730



18 HP 44" TRACTOR - - MODEL NUMBER 917.257730

OIL PAN		LOW OIL PRESSURE SWITCH	
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. 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.
2 52 050 03 3 52 199 14	Filter, Oil Pickup Oil Pan (Includes Key #4 thru 6)	CAMSHAFT & VALVES	
4 X-702-14 5 52 054 07 6 X-75-38	Plug, Cup 1-1/16 Elbow, Street Plug, Hex, Countersunk 1/4 N.P.T.F.	KEY PART NO. NO.	DESCRIPTION
7 X-75-10 8 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)	1 52 012 09 2 52 019 03 3 41 755 10	* Camshaft * Tappet (4) Kit, Retainer (4)
9 52 032 10	Seal, Oil, Rear	4 52 413 01 5 25 089 01 6 52 016 05	Rotator, Exhaust Valve (2) Spring, Valve (4) Valve, Exhaust (2)
OIL FILTER		7 52 017 08 8 52 032 13	Valve, Intake (2) Seal, Intake Valve Stem (2)
KEY PART NO. NO.	DESCRIPTION	9 230011	Retainer, Intake Valve (2) o. 24082000 use: Camshaft
1 52 050 02 2 82 755 23	Oil Filter Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5)	2 52 019 02	Tappet
3 X-55-15	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 PART NO. NO.	DESCRIPTION
5 52 041 16	Gasket, Oil Filter	1 X-280-25	Pin, Roll
PISTON & ROD		2 52 144 05 3 52 422 01	Shaft, Oil Pump Spacer, Shim (As Required, Maximum of 2)
KEY PART NO. NO.	DESCRIPTION .	4 52 043 05 5 52 393 09 6 52 096 03	Gear, Oil Pump Rotor Set Cover, Oil Pump
1 52 067 67 52 067 68	Connecting Rod, Standard (2) Connecting Rod .010" (2)	7 X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (4)
2 52 874 11 Piston with Ring Set, Standard (2) 52 874 12 Piston with Ring Set .003" (2) 52 874 13 Piston with Ring Set .010" (2)		NOT ILLUSTRATED	
52 874 14 52 874 15 3 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
4 52 108 09 52 108 10	Ring Set, Standard and .003" (2) Ring Set .010" (2)	RPM Setting	s: Low Speed: 1150-1650 High Speed: 3200-3400
52 108 11 52 108 12	Ring Set .020" (2) Ring Set .030" (2)	NOTE: All compo 1 inch = 2	nent dimensions given in U.S. inches 5.4 mm

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

SEARS

OWNER'S MANUAL

MODEL NO. 917.257730

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FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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18.0 HP TWIN CYLINDER ELECTRIC START 44" MOWER HYDROSTATIC (AUTOMATIC) 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.

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- PRODUCT TRACTOR
- MODEL NUMBER 917.257730
- ENGINE MODEL NO. MV18S-58560
- PART NUMBER
- PART DESCRIPTION

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140699 Rev. 3 06.24.94

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