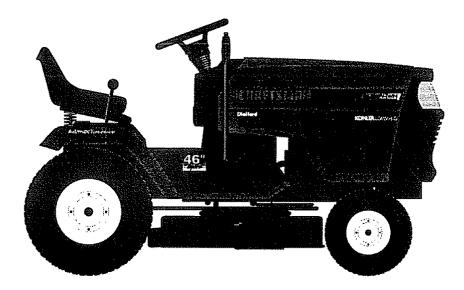


MODEL NUMBER 917.258990

OWNER'S MANUAL

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





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

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

SAFETY RULES

Safe Operation Practices for Ride-On Mowers 🕊

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

I. GENERAL OPERATION

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

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

III. CHILDREN

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

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

IV. SERVICE

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



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

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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.

A WARNING A

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. **CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center/Department 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 917.258990

SERIAL NUMBER

DATEOFPURCHASE _

THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

PRODUCT SPECIFICATIONS

HORSEPOWER:	20.5
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.2 PINTS W/O FILTER: 3.7 PINTS
SPARK PLUG: (GAP: 030")	CHAMPION RC12YC
VALVE CLEARANCE:	NOT ADJUSTABLE
GROUND SPEED (MPH):	FORWARD: 58 REVERSE: 21
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 35 MIN_CCA: 280 CASE SIZE: U1R
BLADE BOLT TORQUE:	3035 FT. LBS.

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

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

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

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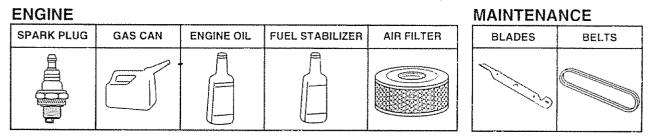
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ACCESSORIES AND ATTACHMENTS

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



PERFORMANCE

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

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

AERATOR promotes deep root growth for a healthy lawn. Tapered 2 5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in Steel weight tray for increased penetration.

BUMPER protects front end of tractor from damage

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

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

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

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

EASY OIL DRAIN VALVE makes oil changes easier. faster.

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

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

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

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

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

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

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

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

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

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

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

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

SWEEPERS let you collect grass clippings and leaves

TILLER has 8 hp engine to prepare seed beds, cultivate, and compost garden residue. Chain-drive transmission Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path (Requires sleeve hitch) Or use 5 hp tow-behind TILLER with 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor Simply hook up to the tractor drawbar and gol 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

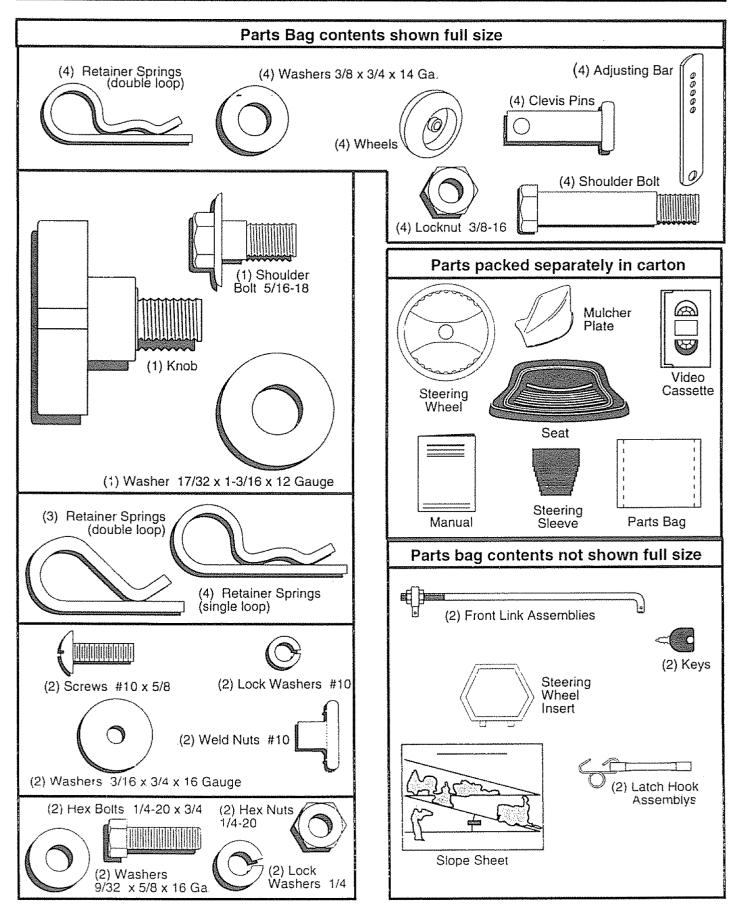
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame. ABS plastic top; clear plastic windshield offers 360 degree visibility Hinged metal doors with catch. Keeps operator warm and dry Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered 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. Carbe 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

Phillips Screwdriver Pliers

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.

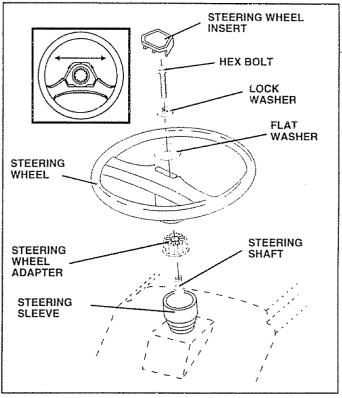


FIG. 1

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

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

CONNECT BATTERY (See Fig. 2)



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

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

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

Use terminal access doors for:

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

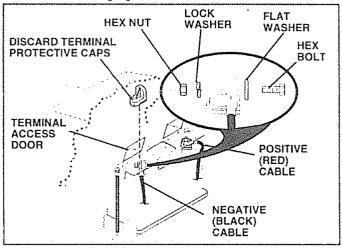
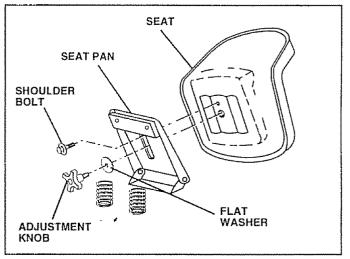


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

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





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 and mower suspension arms are raised with attachment lift control. Engage parking brake.

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

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

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

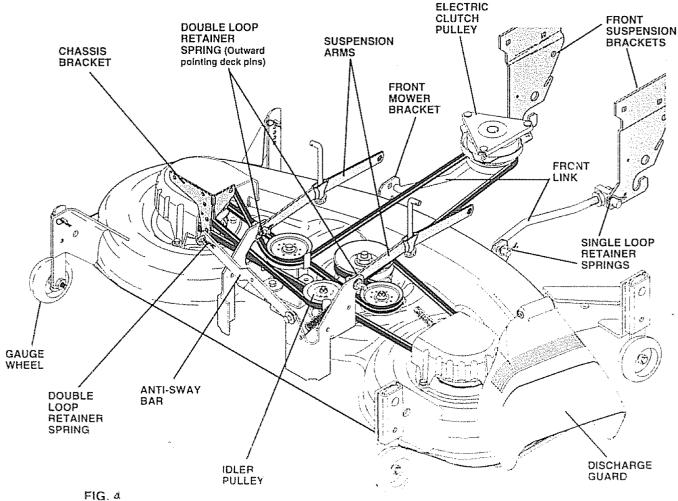
- Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs with loops down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

CHECK MOWER LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL. BELTS

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



INSTALL MULCHER PLATE (See Figs. 5 and 6)

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

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

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



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

TO CONVERT TO BAGGING OR DISCHARGING

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

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

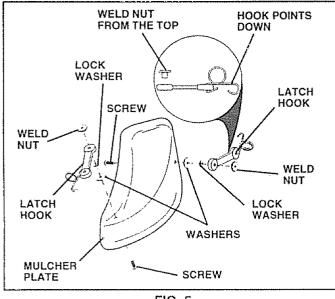


FIG. 5

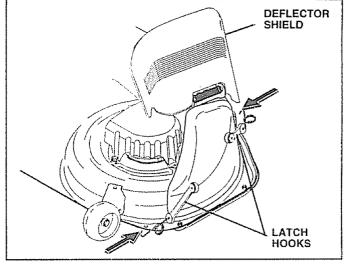


FIG. 6

√ CHECKLIST

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

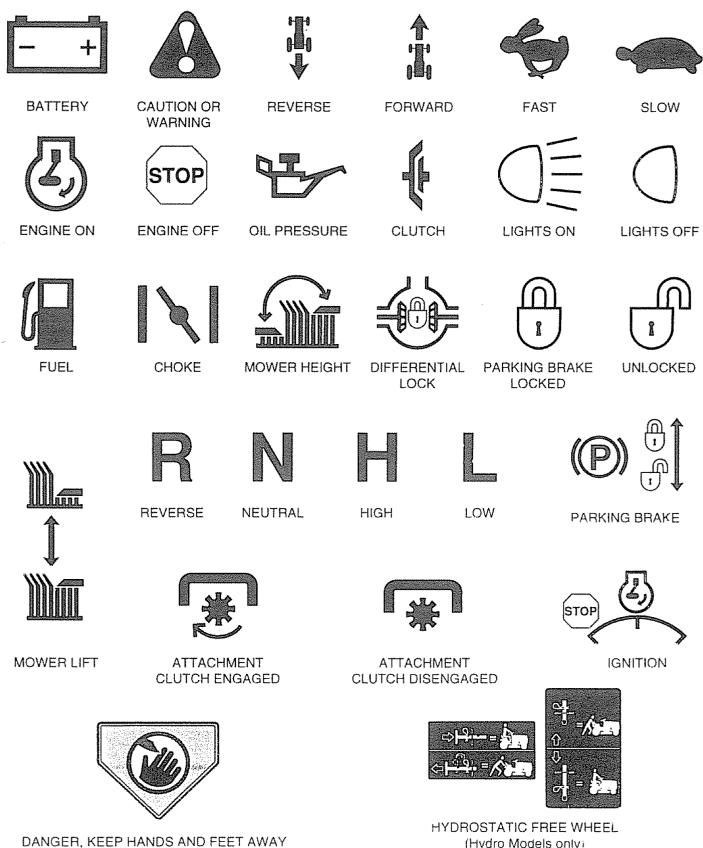
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ 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).

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



*

(Hydro Models only)

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

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

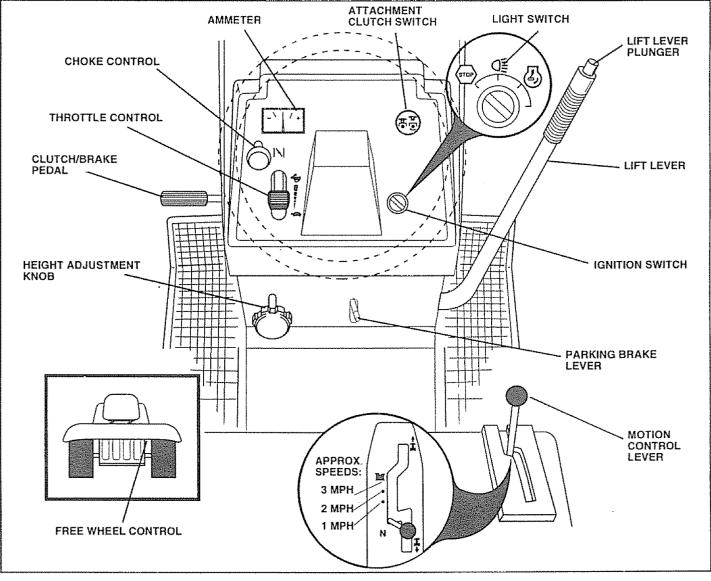


FIG. 7

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 (-)

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

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

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height

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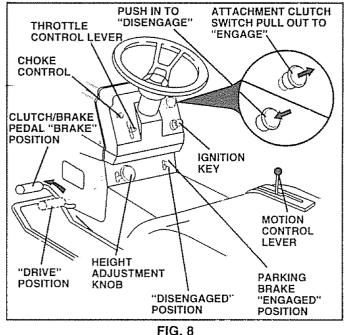
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over the spectacles or standard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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 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.



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. **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. 8)

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

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

The cutting height range is approximately 1-1/2" to 4-1/2". 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

Never use choke to stop engine.

TO ADJUST GAUGE WHEELS (See Fig. 9)

Adjust gauge wheels with tractor on a flat level surface.

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

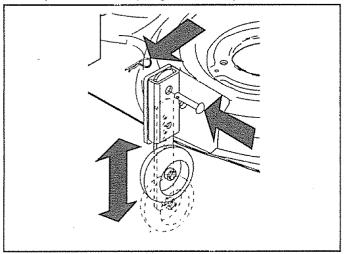
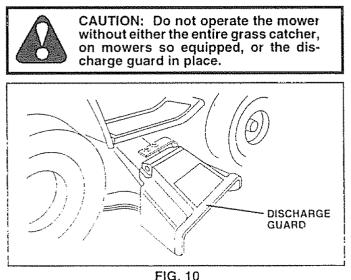


FIG. 9

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.



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.).

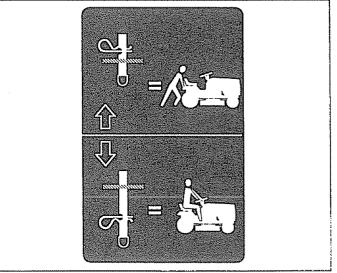


FIG. 11

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

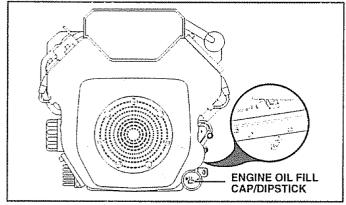


FIG. 12

ADD GASOLINE

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

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

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



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

TO START ENGINE (See Fig. 8)

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

- Depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position."
- Move throttle control to fast (+) position
- Pull choke control out for a cold engine start attempt For a warm engine start attempt the choke control may not be needed.

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

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

WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

HYDROSTATIC TRANSMISSION WARM UP

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

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).
- 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 motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times
- Your tractor is now purged and now ready for normal operation.

MOWING TIPS

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

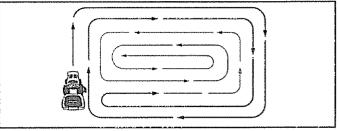


FIG. 13

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 14). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings When doing a second cut, mow across or perpendicular to the first cut path
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

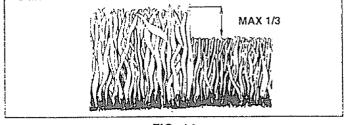


FIG. 14

FIL AS	AINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE		EFORE	EACH!	HOURS HOURS	HOURS	SHOUP SHOUP	SHOUP OHOUP	NERY E	ASON EASON EFORE	SERV		DATES
	Check Brake Operation _	V	1	1						Π			
	Check Tire Pressure	4	1	6				1	1				
T	Check for Loose Fasteners	1				1	VT		4				
R	Sharpen/Replace Mower Blades			1	V 4								
	Lubrication Chart				e/		1		V				
Ť	Check Battery Level/Recharge				16								
0	Clean Battery and Terminals	1			V			1	V				
R	Check Transaxle Cooling				V								
	Adjust Blade Belt(s) Tension						Vs						
	Adjust Motion Drive Belt(s) Tension						Vs						
	Check Engine Oil Level	1	[6			1						
	Change Engine Oil		V	1	1.2.3				4			******	
E	Clean Air Filter			1	V2								
N	Clean Air Screen				V2		1		1				
G	Inspect Muffler/Spark Arrester		[V	1						
	Replace Oil Filter (If equipped)			1			V1.2						
N	Clean Engine Cooling Fins		[I			V 2		1				
1=	Replace Spark Plug						4	2	1				
	Replace Air Filter Paper Cartridge						1/2		1				
	Replace Fuel Filter							6/	1				

1 - Change more often when operating under a heavy load or in high ambient temperatures

2 - Service more often when operating in dirty or dusty conditions

3 - If equipped with oil filter, change oil every 50 hours

4 - Replace blades more often when mowing in sandy soil

5 - If equipped with adjustable system

6 - Not required if equipped with maintenance-free battery

7 - Tighten Iront axle pivot bolt to 35 It -lbs maximum

LUBRICATION CHART

Do not overtighten

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. То 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.

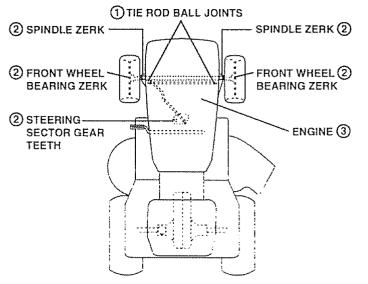
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season

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 LUBRI-CANTS 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 POW-DERED GRAPHITE TYPE LUBRICANT SPARINGLY



- (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. 15)

- 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.

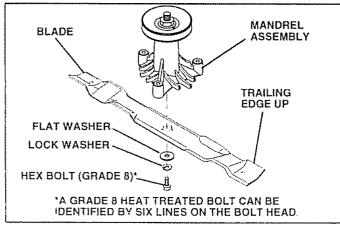
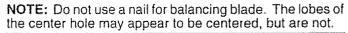


FIG. 15

TO SHARPEN BLADE (See Fig. 16)

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.



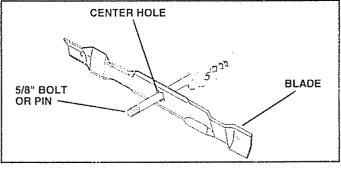


FIG. 16

BATTERY

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

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

TO CLEAN BATTERY AND TERMINALS

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

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

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, SG, or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.

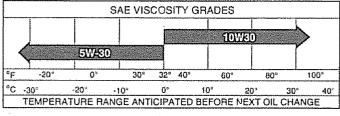


FIG. 17

Change the oil after the first two hours of operation and every 50 hours thereafter or at least once a year if the tractor is not used for 50 hours in one year.

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

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

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

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

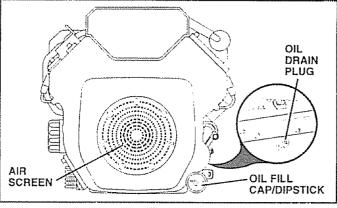


FIG. 18

CLEAN AIR SCREEN (See Fig. 18)

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

CLEAN AIR INTAKE/COOLING AREAS

To insure proper cooling, make sure the grass screen. cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled

NOTE: Operating the engine with a blocked grass screen dirty or plugged cooling fins. and/or cooling shrouds removed will cause engine damage due to overheating

AIR FILTER (See Fig. 19)

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.

Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

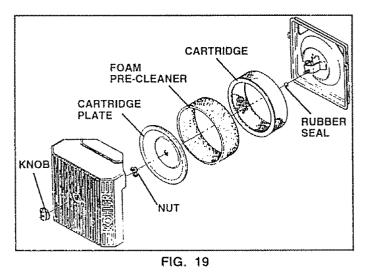
- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- Remove nut and cartridge plate.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Check rubber seal for damage and proper position around stud. Replace if necessary.
- Reassemble air cleaner, cartridge plate, and nut.
- Reinstall air cleaner cover and secure by tightening knob.



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. 20)

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

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

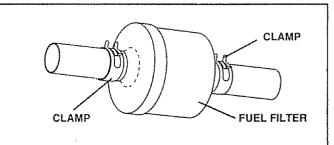


FIG. 20

CLEANING

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

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

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER (See Fig. 21)

- Place attachment clutch in "DISENGAGED" position
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position 8
- 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 8 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.

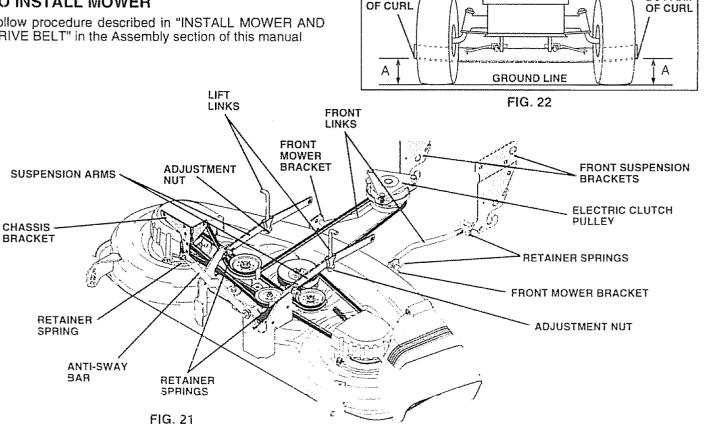
SIDE-TO-SIDE ADJUSTMENT (See Figs. 21 and 22)

- 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. 23 and 24) -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.

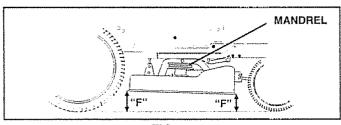
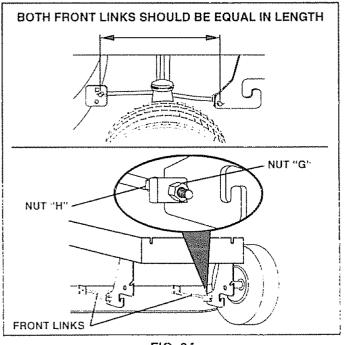


FIG. 23



TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 25) -

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

MOWER DRIVE BELT INSTALLATION (See Fig. 25) -

- 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.

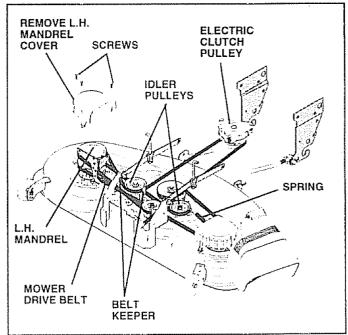


FIG. 25

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

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).

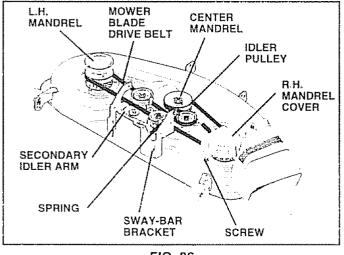


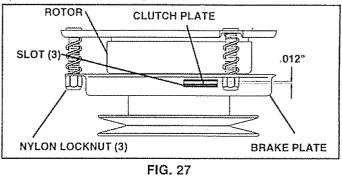
FIG. 26

TO ADJUST ATTACHMENT CLUTCH (See Fig. 27)

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.



TO ADJUST BRAKE (See Fig. 28)

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.

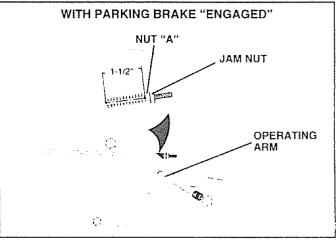


FIG. 28

TO REPLACE MOTION DRIVE BELT (See Fig. 29)

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.)

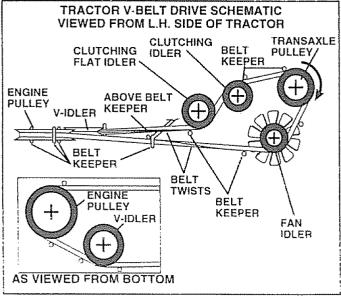
BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove belt from clutching and fan idler pulleys.
- Loosen belt keeper above transaxle pulley.
- 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.
- Retighten belt keeper above transaxle pulley.
- 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.



TO ADJUST MOTION CONTROL LEVER (See Fig. 30)

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.

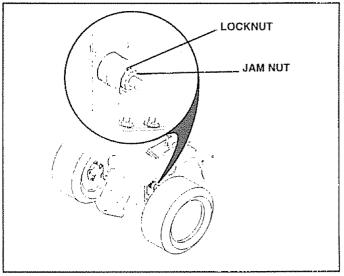


FIG. 30

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.

FIG. 29

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. 31) -

- 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. 31 and 32) -

- 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.

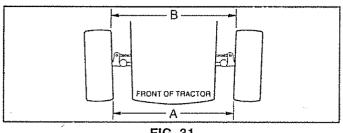


FIG. 31

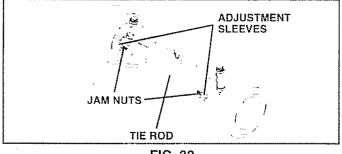


FIG. 32

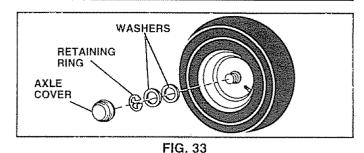
FRONT WHEEL CAMBER

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 33) -

- 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



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. 34)



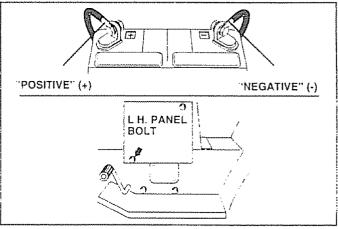
CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

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.



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.

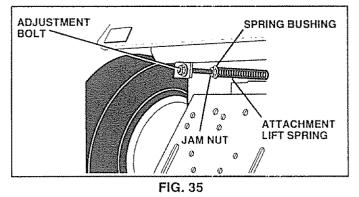
TO REPLACE FUSE

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

TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 35)

- 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. 36)

- 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

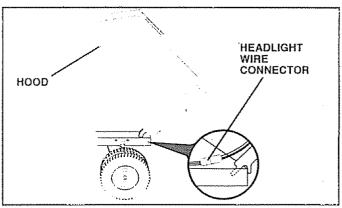


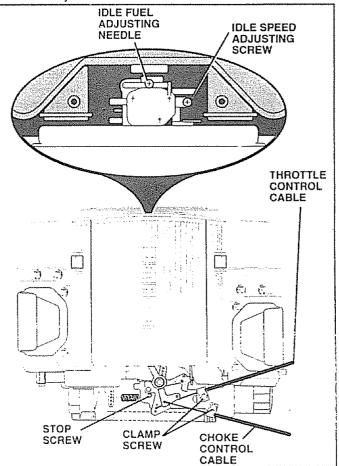
FIG. 36

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 37)

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 CHOKE CONTROL (See Figs. 37 and 38)

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

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

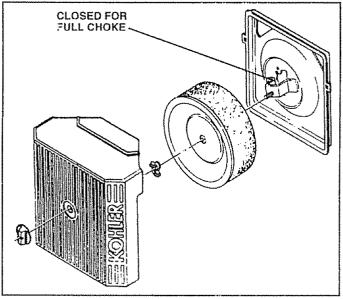


FIG. 38

TO ADJUST CARBURETOR (See Fig. 37)

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 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 "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it 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.
- The high idle is set at the factory and cannot be adjusted.
- Idle speed setting With throttle control lever in slow (
 (
) position, engine should idle at 1200 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

Move throttle control lever from slow () to fast () position. If engine hesitates or dies, turn idle fuel adjusting needle 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

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 nexi 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

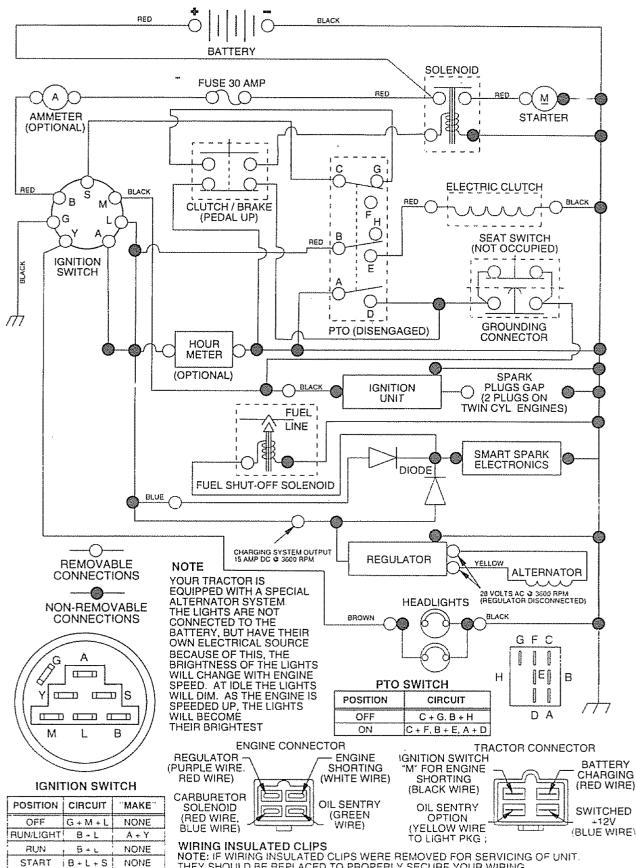
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel Engine not "CHOKED" properly Engine flooded. Bad spark plug Dirty air filter Dirty fuel filter Water in fuel Loose or damaged wiring. Carburetor out of adjustment Engine valves out of adjustment 	 Fill fuel tank See "TO START ENGINE" in Operation section Wait several minutes before attempting to start Replace spark plug Clean/replace air filter Replace fuel filter Drain fuel tank and carburetor. refill tank with fresh gasoline and replace fuel filter Check all wiring See "To Adjust Carburetor" in Service Adjustments section Contact an authorized service center/department.
Hard to start	 Dirty air filter Bad spark plug Weak or dead battery Dirty fuel filter. Stale or dirty fuel Loose or damaged wiring Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter Replace spark plug Recharge or replace battery Replace fuel filter Drain fuel tank and refill with fresh gasoline Check all wiring. See "To Adjust Carburetor" in Service Adjustments section 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). 	 Depress clutch/brake pedal Disengage attachment clutch Recharge or replace battery Replace fuse. Clean battery terminals. Check all wiring Check/replace ignition switch Check/replace solenoid or starter Contact an authorized service center/department
Engine clicks but will not start	 Weak or dead battery Corroded battery terminals Loose or damaged wiring Faulty solenoid or starter 	 Recharge or replace battery. Clean battery terminals Check all wiring Check/replace solenoid or starter
Loss of power	 Cutting too much grass/too fast Throttle in "CHOKE" position Build-up of grass. leaves and trash under mower Dirty air filter Low oil level/dirty oil Faulty spark plug Dirty fuel filter Stale or dirty fuel Water in fuel Spark plug wire loose Dirty engine air screen/fins Dirty/clogged muffler Loose or damaged wiring Carburetor out of adjustment 	 Set in "Higher Cut" position/reduce speed Adjust throttle control Clean underside of mower housing Clean/replace air filter Check oil tevel/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 tuel filter Connect and tighten spark plug wire Clean/replace muffler Check all wiring See "To Adjust Carburetor" in Service Adjustments section Contact an authorized service center/department
Excessive vibration	 Worn pent or loose blade Sent blade mangrei Loose/damaged part(s) 	 Replace blade Tighten blade bolt Replace blade mandrei Tighten loose part(s) Replace damaged parts

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1 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 	1 Remove obstruction 2 Replace mower drive belt 3 Replace idler pulley 4 Replace blade mandrel
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure Worn, bent or loose blade Buildup of grass, leaves and trash under mower Mower drive belt worn Blades improperly installed Improper blades used Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels 	 Place throttle control in "FAST" position Shift to slower speed. Allow grass to dry before mowing. Level mower deck Check tires for proper air pressure. Replace/sharpen blade Tighten blade bolt Clean underside of mower housing. Replace mower drive belt Reinstall blades sharp edge down. Replace with blades listed in this manual Clean around mandrels to open vent holes
Headlight(s) not working (if so equipped)	 Switch is "OFF" Bulb(s) burned out Faulty light switch Loose or damaged wiring Blown luse 	 Turn switch "ON". Replace bulb(s) Check/replace light switch Check wiring and connections Replace fuse
Battery will not charge	 Bad battery cell(s) Poor cable connections Faulty regulator (if so equipped) Faulty alternator. 	 Replace battery Check/clean all connections Replace regulator. Replace alternator.
Loss of drive	 Freewheel control in "disengaged" position Motion drive belt worn, damaged or broken Air trapped in transmission during shpment or servicing 	1 Place freewheel control in "engaged" position 2 Replace motion drive belt 3 Purge transmission
Engine "backfires" when turning engine "OFF"	 Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine 	1 Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine

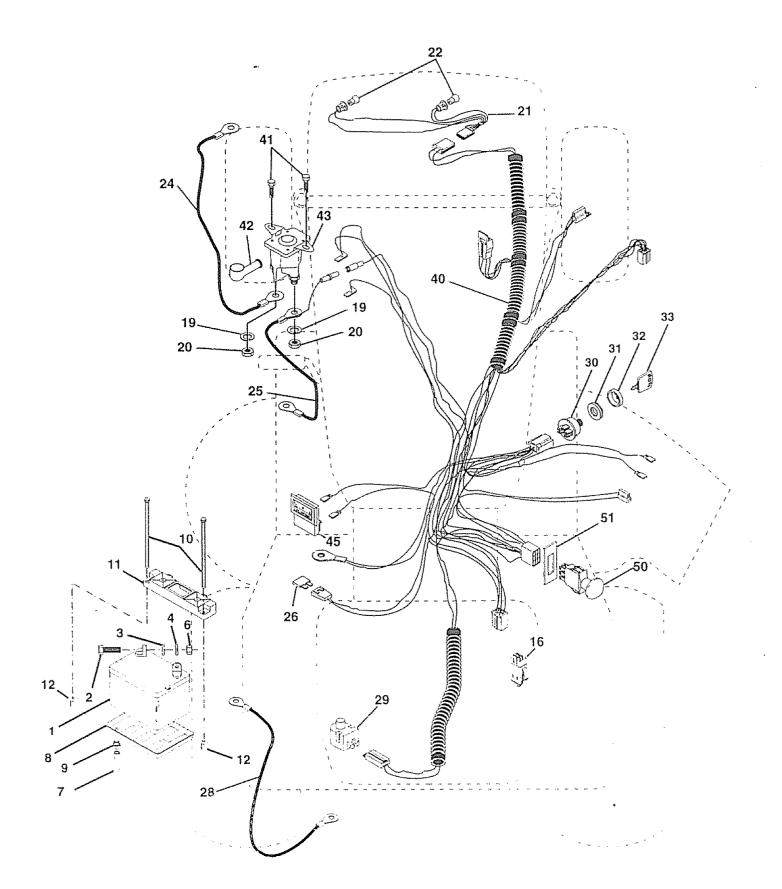
TRACTOR - - MODEL NUMBER 917.258990

SCHEMATIC



TRACTOR - - MODEL NUMBER 917.258990

ELECTRICAL



TRACTOR - - MODEL NUMBER 917.258990

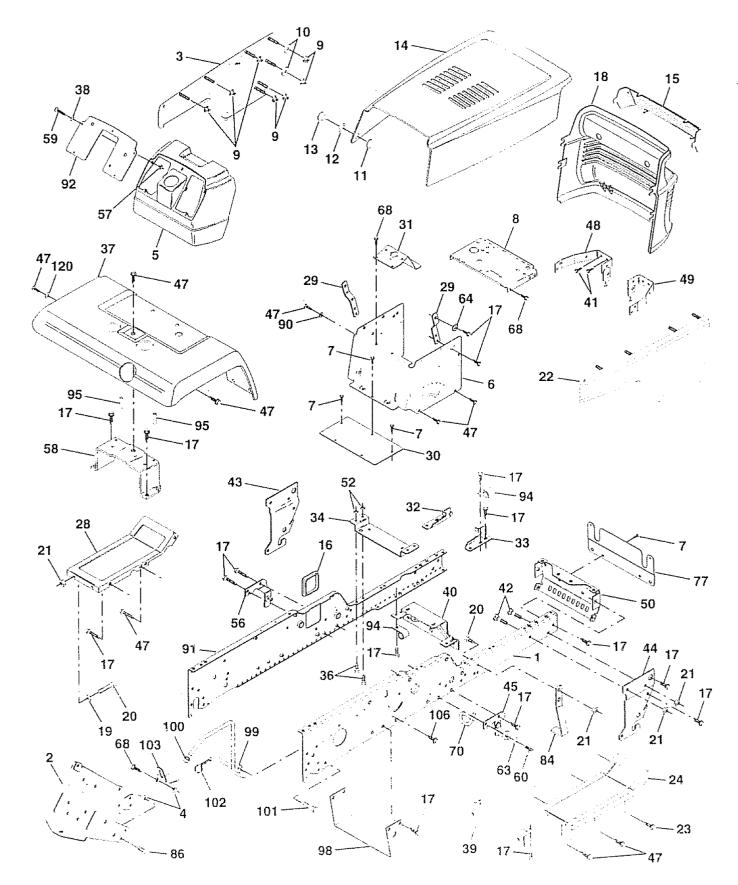
ELECTRICAL

KEY _NO.	PART NO.	DESCRIPTION
3467890112690122456890123301423501	150109 145769 153664 STD551125 73350400 136850 4152J 4014J 146686 108824X 157899 121305X 140301 124211X 141226 109310X 156162 17720408 131563 145673 122822X 154963 140405	Battery 12 Volt 35 amp. Bolt Hex Head 1/4-20 x 3/4 Washer, Lock 1/4 Washer 9/32 x 5/8 x 16 Ga Nut Fin Hex 1/4-20 Tube Plastic Tray, Battery Clamp, Hose Bolt 1/4-20 x 7.5 Zinc Hold down Battery Front Mount Nut Push Nylon 1/4" Switch Interlock Push-In Washer, Lock 1/4 Nut, Jam Hex 1/4-20 Harness Socket Light W/4152J Bulb Light Cable, Battery Red 4 Ga 22" Cable, Battery Red 4 Ga 22" Cable, Battery Red 4 Ga w/16 wir Fuse Cable, Ground 4 Gauge 3/8 Term Switch, Plunger NC Gray Switch, Ign Nut, Ignition Switch Cover Switch Key Key, Ignition Craftsman, Delta Harness Ign. 95 GT Elec. CV22 Screw 1/4-20 x 1/2 Cover, Terminal Solenoid Ammeter, rectangular 15 amp. Switch, PTO Ring Retainer PTO ent dimensions given in U.S. inches

NOTE: All component dimensions given in U.S. inches 1 inch = 25 4 mm

TRACTOR - - MODEL NUMBER 917.258990

CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 917.258990

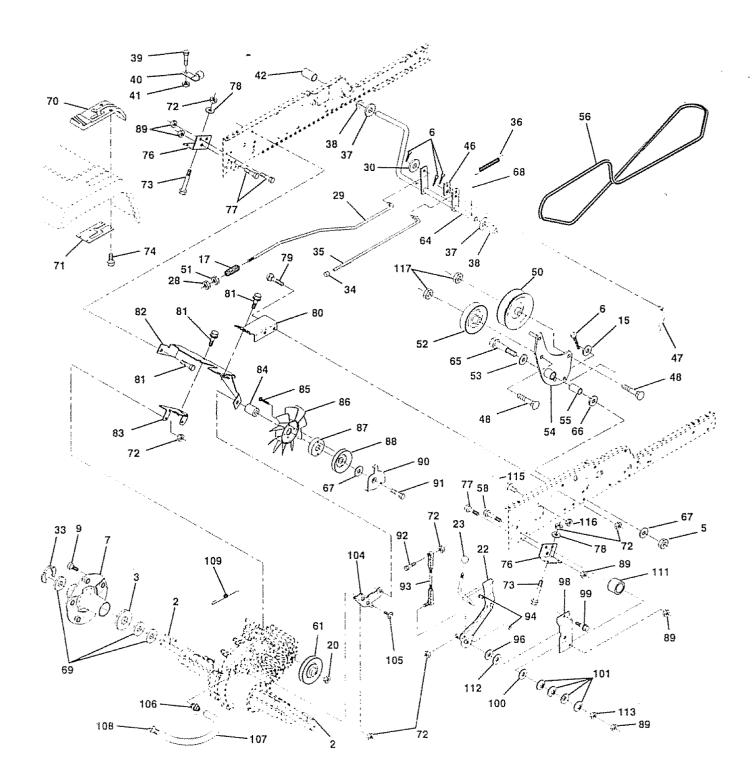
CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.		DESCRIPTION
$\begin{smallmatrix}1&2&3&4&5&6&7\\&8&9&0&1&1&2&3&4&8\\&1&1&1&1&1&1&1&1&1&1&1&2&2&2&2&2&2&3&3&3&3$	150253 140506 136671X558 73800700 145203 157882 17720408 145166 108067X 19092016 137270 137269 137271 136673X558 136374 121794X 17490612 136373X428 19131312 STD523710 STD541437 136670X558 17490616 145243X558 145244X558 145244X558 145244X558 145244X558 145244X558 145244X558 145244X558 145243X558 145349 145052 145183 141315 141314 142131 STD522107 140002X558 STD551025 136961 156111 17580408	Rail, Frame RH VGT Drawbar, Gt Panel Asm., Side LH Nut, Lock Hex 7/16 Unc Dash, Plastic Black Dash Asm., Lower VGT Screw, Thd Cut 1/4-20 x 1/2 Support, Dash 1-Pc. Battery Nut, Pal Washer 9/32 x 1-1/4 x 16 Ga. Rivet, Ratchet Male Washer 9/32 x 1-1/4 x 16 Ga. Rivet, Ratchet Female Hood Asm., Pnt Lens, Bar Clear Cover, Access Screw, Thdrol 3/8-16 x 3/4 Grille Washer 13/32 x 13/16 x 12 Ga. Bolt, Fin Hex 3/8-16 x 1 Nut, Crownlock 3/8-16 Unc Panel Asm., Side RH Screw, Thdrol 3/8-16 x 1 TY-TT Footrest, RH LT/YT/GT 95 Footrest, LH LT/YT/GT 95 Bracket, Support Dash Saddle, Hydro 1995 Bracket Asm., Frame Pivot Lh Bracket Asm., Frame Pivot Lh Bracket Asm., Frame Pivot Rh Bracket, Engine Support Bolt, Fin Hex 5/16-18 x 3/4 Fender, Pnt. YT/GT ws FTK MS 558 Washer 9/32 x 3/4 x 16 Ga. Bracket, Axle Front Bracket, Support Axle/Engine Screw Tap Tite 1/4-20 x 1/2	101 102 103 106 120		Bolt, Carriage 3/8-16 x 1 Bracket, Spnsn Front Lh Bracket, Spnsn Front Rh Bracket Asm., Susp Chassis Rh Screw Thdrol 3/8-16 x 1/2 Bracket Asm., Pivot Hood Lh Bracket Asm., Pivot Hood Rh Bracket, Chassis Front Nut, Crownlock 5/16-18 Bracket Asm., Susp Chassis Lh Nut, Crownlock 5/16-18 Bracket Asm., Susp Chassis Lh Nut, Keps Hex 1/4-20 Bracket Asm., Fender Screw, Mach Cr 1/4-20 x 3/4 Screw Thdrol 3/8-16 x 1-1/4 Washer 13/32 x 1 x 14 Ga. Washer, Serrated Disc 13/32 x 1 Screw, Thd 5/16-18 x 1/2 Guide, Belt Mid Span Shield, Front Stop, Over Center Mower Bolt, Fin Hex 7/16-14 Unc x 1 Washer, Lock External Tooth 3/8 Rail, Frame Lh VGT Plate, Silkscreen Dash Clip, Fuel Line Push Nut, Nylon Bracket Skid Chassis Rod By Pass Cap By Pass Rod Screw Thdrol 3/8-16 x 1-3/4 Retainer, Spring Lock, By Pass Bolt 5/16-18 Type TT Washer 13/32 x 1 x 16 Ga. Plug, Hole ent dimensions given in U.S. inches
				1 inch = 25	.4 (11)(1)

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TRACTOR - - MODEL NUMBER 917.258990

GROUND DRIVE



TRACTOR - - MODEL NUMBER 917.258990

GROUND DRIVE

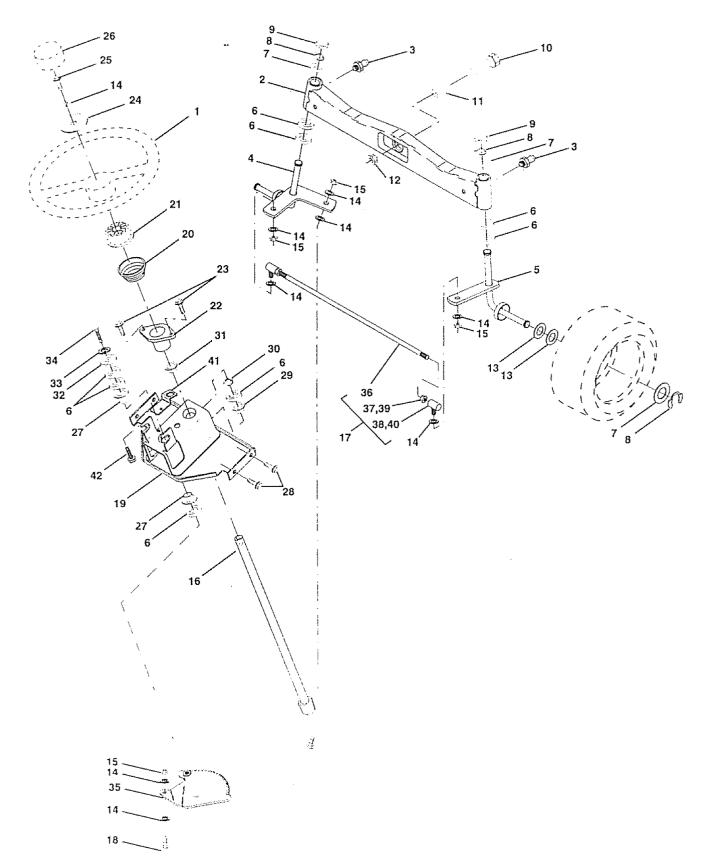
KEY NO.	PART NO.	DESCRIPTION
$\begin{smallmatrix} 2&3&5&6&7\\ &9&5&7\\ &9&5&7\\ &2&2&2&2&2&2&3\\ &3&3&3&3&3&3&3\\ &3&3&3&3&3&4&4&4&4&4&5\\ &5&5&5&5&5&5&5&6&6&6&6&6&6&6&7\\ &7&1&2&2&2&2&2&2&2&3&3&3\\ &1&2&2&2&2&2&2&2&3&3&3&3\\ &1&2&2&2&2&2&2&2&3&3&3&3&3&3&3&4&4&4&4&4&4$	124236X 137648 149412 121749X 150035 74321016 5304J 73631000 8883R 145170 138228 72110612 131494 STD541437 139123 207J 156563 105706X 140218 74760724 140488 154752 67609 140296 19131312	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. Bolt Hub Washer 13/32 x 13/16 x 16 Ga Spring Rod Brake Nut Hex Jam Toplock 1/2-20 Arm Asm Shift VGTH Knob, Deluxe 1/2-13 UNC Blk/Red Nut, Hex Jam 3/8-16 UNC Brake Rod Washer 13/32 x 1 x 16 Ga. Ring E Cap Plunger Rod Parking Brake Spring, Drive, Ground Washer 25/32 x 1-1/4 x 16 Gauge Nyliner, Bushing Screw Fin #10-24 x 1 Actuator Interlock Switch Nut Lock #10-24 Cover Pedal Blk Round Retainer Spring Clutch Rod Bolt Carriage 3/8-16 x 1-1/2 Gr 5 Pulley Idler Flat Nut Crownlock 3/8-16 UNC Pulley Idler Grooved Washer Hartdened Clutch Arm Asm Idler Bearing Nyl 503 x .628 x 1.25 V-Belt 84.5 x .490 VGTH Bolt Fin Hex 7/16-14 x 1-1/2 Pullery Transaxle Shaft Asm Brake Parking Clutch Bolt Shoulder Washer 13/32 x 13/16 x 12 Ga Pin Roll Washer Console Hydro Fender Plate Console Shift

KEY NO	PART NO.	DESCRIPTION
116	156106 140480 17580408 142918 154739 142917 140929 156240 156104	Locknut Hex W/Washer Insert Bolt Fin Hex 5/16-18 x 3 Screw Hex Wsh. Hi-Lo 1/4-1/2 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 Nut Lock Hex 7/16-14 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 Washer Nickel Plated Bracket Shift Support Screw Thdrol 3/8-16 x 1-1/2 Washer Compression Washer Bellville Bracket Idler Screw Tap 1/4-20 x 1/2 O-Ring Asm Hydro Gear Line Fuel Hydro Cap Asm Vent Hydro Gear Spring Return Brake Spacer Shift Lever VGTH Washer Nylon High Temp Nut Hex ASF 7/16-14 Unc Keeper Belt T/A Gnd Dr. LR Nut Lock Hex Flange 5/16-18 Nut Lock Fig 3/8-16 Unc Transaxle (See Breakdown) Hydro Gear 218-3010

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

TRACTOR - - MODEL NUMBER 917.258990

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.258990

STEERING ASSEMBLY

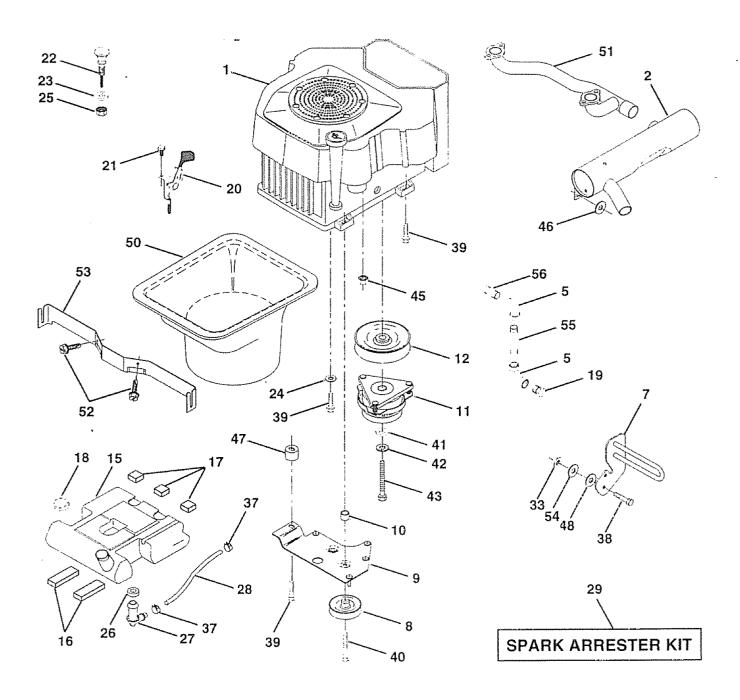
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KEY PART NO. NO.	DESCRIPTION
NO. NO. 1 121472X 2 137094 3 6855M 4 136960 5 136959 6 6266H 7 121748X 8 12000029 9 121232X 10 74781044 11 136518 12 73901000 13 121749X 14 STD55113 15 STD54153 16 145103 17 137347 18 137155 19 156011 20 145182 21 100711L 22 155105 23 152927 24 19133808	 Wheel, Steering Auto Black Axle Asm., Front Fitting, Grease Spindle Asm, LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer, Brg. Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hlcl Spr 3/8 Nut, Lock Center 3/8-24 Unf Shaft Asm., Steering Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40) Draglink, Ball Joint Solid Vgt Support Asm., Steering Vgt Column, Steering Adapter, Wheel Steering Bushing, Strg. Screw Washer 13/32 x 2-3/8 x 8 Ga.
25 STD52371 26 126805X 27 3366R 28 17490612 29 104239X 30 12000034 31 138136 32 19111610 33 STD55113 34 STD52310 35 138059 36 137156 37 73360600 38 109850X 39 73700600 40 109851X 41 155246 42 17490508	Cap [°] , Wheel Steering Bearing, Col. Strg. Screw, Thrdrol 3/8-16 x 3/4 Bearing, Flange Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hlcl Spr 5/16

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

TRACTOR - - MODEL NUMBER 917.258990

ENGINE



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TRACTOR - - MODEL NUMBER 917.258990

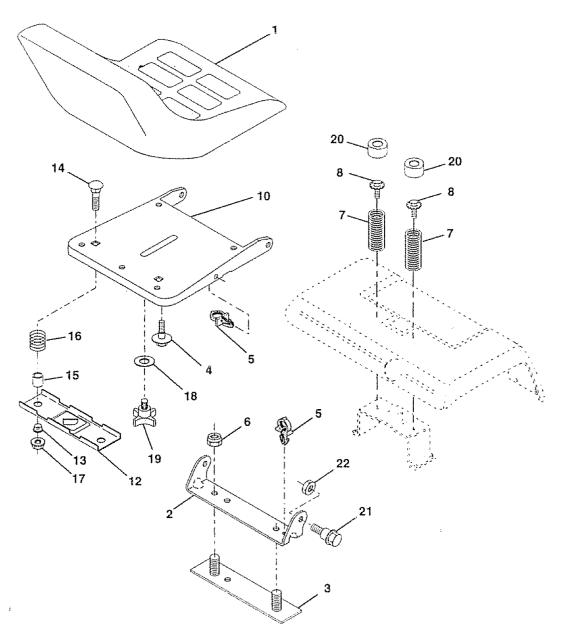
ENGINE

KEY PART NO. NO.	DESCRIPTION
1	Engine (See Breakdown) Kohler
2 152947	CV20S-65538 Muffler Asm
2 152947 5 13200300	Elbow STD 90 Degree 3/8 - 18 NPT
7 151396	Muffler Asm Guard
8 121361X	Pulley V-Idler
9 150828	Belt Éngine Keeper Asm VGT 96
10 105432X	Bushing
11 140923	Clutch Electric
12 143996 15 151346	Pulley Engine VGT Elect Clutch Tank Fuel Rear 3 50 YT/GT 96
16 109227X	Pad Spacer
17 106082X	Pad Spacer
18 152334	Cap Asm Fuel W/Gauge Vented
19 13290300	Plug Oil Drain (Order From Engine
00 400755	Manufacturer)
20 132755 21 17720410	Control Throttle Screw Hex Thd Cut 1/4 - 20 X 5/8
22 132779	Control Choke
23 19132616	Washer 13/32 X 1 - 5/8 X 16 Ga
24 STD551237	Lockwasher Ext Tooth 3/8
25 73920600	Nut Keps 3/8 - 24 UNF
26 3645J	Bushing
27 139277	Stem Tank Fuel
28 7834R 29 132920	Fuel Line Spark Arrester Kit
33 STD551437	Nut Lock Hex w/lns. 3/8 - 16
37 123487X	Clamp Hose
38 74780624	Bolt Fin Hex 3/8 - 16 x 1-1/2
39 17490636	Screw TT 3/8-16 x 2-1/4 Unc
40 17490664	Screw TT 3/8-16 x 4
41 126197X 42 STD551143	Washer 1-1/2 OD X 15/32 ID X 250 Washer Lock 7/16
43 150280	Bolt Hex 7/16 - 20 X 4 - 1/4 Ga 5
45 128861	Nut Flange 1/4-20 Starter Nut
46 19131616	Washer 13/32 x 1 x 16 Ga
47 142040	Spacer Engine
48 19132007	Washer 13/32 x 1-1/4 x 7 Ga
50 143020 51 152946	Duct Air Bine Crossover
52 17580408	Pipe Crossover Screw Tap 1/4 - 20 x 1/2
53 143528	Bracket Duct Air Rear Sup
54 19131414	Washer Flat 13/32 x 7/8 x 14 Ga.
55 13090336	Nipple Pipe 3/8NPT X 4-1/2
56 13090308	Elbow Nipple Pipe 3/8 x 1

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

TRACTOR - - MODEL NUMBER 917.258990

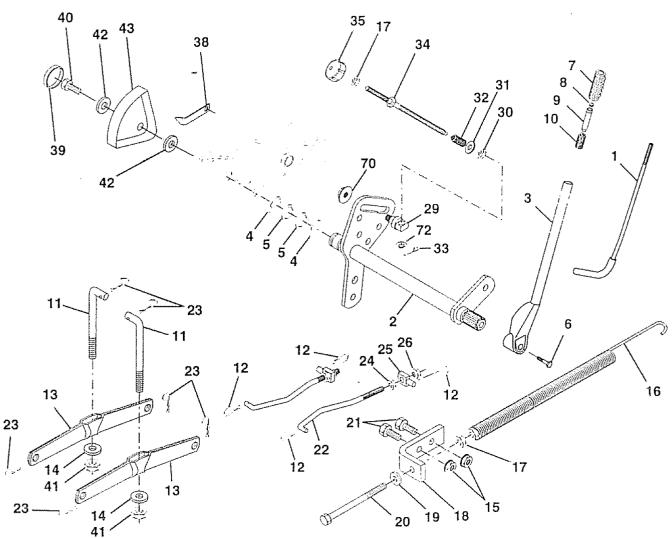
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	Y PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 10 2 13 14	140124 140551 140675 127018X 145006 STD 541437 124181X 150176 155925 121246X 121248X 72050411	Seat Bracket, Pivot Seat Strap, Fender Bolt, Shoulder 5/16-18 x 62 Clip, Push In Hinged Nut,Lock Hex 3/8-16 Unc Spring, Seat Cprsn Bolt 5/16-18 UNC x 3/4 w/sems Pan, Seat Bracket, Mounting Switch Bushing, Snap Bolt, Carriage 1/4-20 X 1-3/8	15 16 17 18 19 20 21 22 NO	121249X 123740X 123976X 19171912 120068X 124238X 153236 STD541431 IE: All compo 1 inch = 2	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 nent dimensions given in U.S. inches 5.4 mm

TRACTOR - - MODEL NUMBER 917.258990

LIFT ASSEMBLY



KEY NO.		DESCRIPTION
1	121006X 154389	Rod Asm., Lever
2 3 4 5 6 7	121002X	Shaft Asm., Lift Vgt Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga
6	74780624	Bolt, Fin Hex 3/8-16 x 1-1/2
	125631X	Grip, Handle Fluted Blk
	122365X 122364X	Button, Plunger Red
	2876H	Plunger, Lever Lift Spring 2-1/8"
	146704	Link Lift
	STD624008	Retainer, Spring
	139868	Arm, Suspension Vgt
	140302	Bearing, Pvt. Lift Spherical
15	STD541437	Nut, Crownlock 3/8-16 Unc
	674A247 STD541237	Spring Asm., Assist Lift Nut, Hex Jam 3/8-16 Unc
	143363	Bracket, Spring Assist
	STD551037	Washer 13/32 x 13/16 x 16 Ga
	5328J	Bolt, Adjust Spring Assist
	STD523710	Bolt, Fin Hex 3/8-16 x 1
22	127218 '	Link, Front

KEY PART NO. NO.

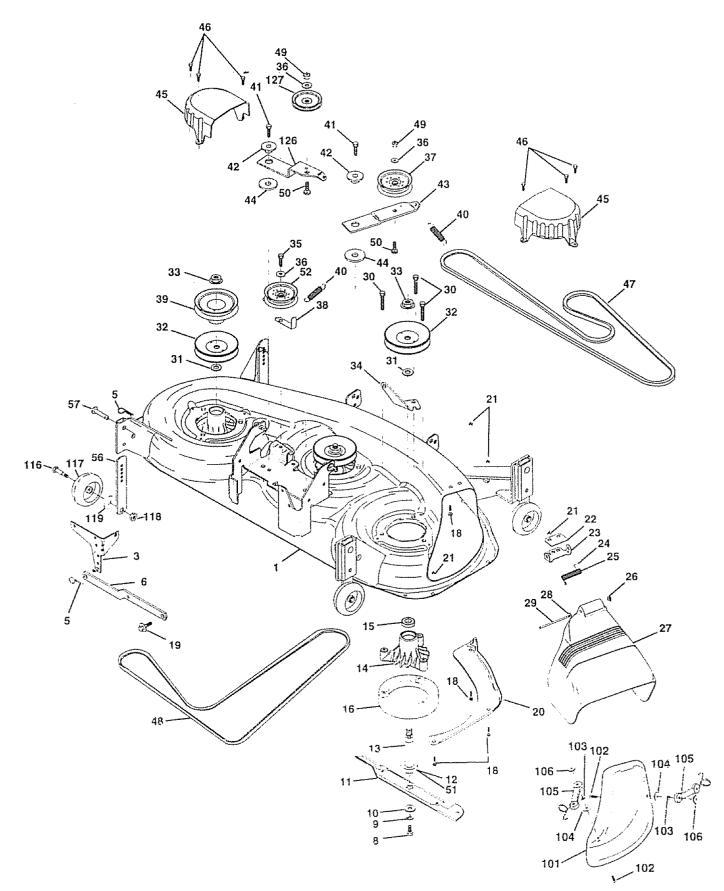
DESCRIPTION

29 30 31 32 33 34 35 38 39 40 41 42 43	73350800 130171 73800800 150233 110807X 19131016 137150 STD560907 137167 138057 155097 123935X 17490512 73540600 19112410 123934X	Retainer, Spring Nut, Jam Hex 1/2-13 Unc Trunnion Nut, Lock W/Wsh 1/2-13 Unc Trunnion, Infin. Height Nut, Special Washer 13/32 x 5/8 x 16 Ga. Spring, Compression Inf Hgt Pin, Cotter 3/32 x 1/2 Rod, Adj Lift Knob, Inf 3/8-16 Unc Pointer, Height Indicator Plug, Hole Screw Thdrol 5/16-18 x 3/4 Nut, Crownlock 3/8-24 Washer 11/32 x 1-1/2 x 10 Ga. Scale, Indicator Height
43 70		
70 72	145212 110452X	Nut Hex Flange Lock Nut Push Phos & Oil

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

TRACTOR - - MODEL NUMBER 917.258990

MOWER DECK



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TRACTOR - - MODEL NUMBER 917.258990

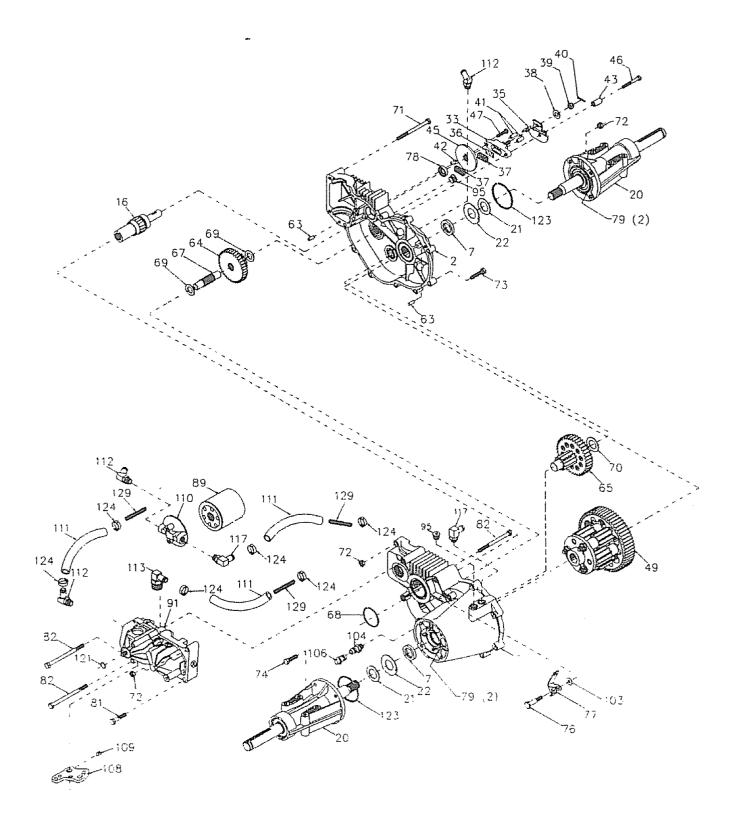
MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156833	Deck Widmnt Mower W/Adj GWB 46	38 39	156086 144917	Keeper, Belt, Idler Bullow Idler, Driver Deek 48"
3	138457	Bracket Asm., Sway Bar	40	137273	Pulley, Idler, Driver Deck 46" Spring, Secondary 44/46/50 Vent
5	STD624008	Retainer Spring	41	17490620	Screw, Thdroll 3/8-16 x 1-1/4 Tytt
6 8	130832 850857	Arm, Suspension, Rear (Sway Bar) Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	42 43	122052X	Spacer, Retainer
9	STD551137	Washer, Lock Hvy., Unplated 3/8	43	144949 133943	Arm, Idler Secondary Washer, Hardened
10	140296	Washer, Hard Blade, Mower	45	145059	Cover, Mandrel Deck
		Vented	46	137729	Screw, Thdroll 1/4-20 x 5/8
11	152443	Blade, 46" Mower Deck Mulching	47	144959	V-Belt, Mower, Secondary
12	129895	Bearing, Ball, Mandrel #6204		139573	V-Belt, Mower, Primary 46"
13	137553	Shaft Asm. w/Lower Bearing		STD541437	Nut, Crownlock 3/8-16 UNC
14	137152	(Includes Key No. 12)	50 51	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5 Washer Felt
15	110485X	Housing, Mandrel Bearing, Ball, Mandrel		153390 156493	Pulley Idler 46
16	140329	Stripper, Mower Round		155986X505	Bar Pht. Adjusting Wheel Gauge
18	STD533106	Bolt, Carriage 5/16-18 x 5/8		156941	Pin Head Rivet
19	132827	Bolt, Hex Head, Shoulder 5/16-18		145579	Cover, Mulching
20	145055	Baffle, Vortex Mower 46"		71161010	Screw
21	STD541431	Nut, Crownlock 5/16-18 UNC		STD551110	Washer, Lock #10
22	134753	Stiffiner, Bracket		19061216	Washer
23 24	131267 105304X	Bracket, Deflector Cap, Sleeve		130758 2029J	Latch Asm Bagger Nut, Weld
25	123713X	Spring, Torsion, Deflector		137644	Bolt, Shoulder
26	110452X	Nut, Push		133957	Gauge Wheel, Wide
27	157788	Shield, Deflector Mower		73930600	Nut, Centerlock 3/8-16 UNC
28	19111016	Washer 11/32 x 5/8 x 16 Ga.		STD551037	Washer 3/8 x 7/8 x 14 Ga.
29	131491	Rod, Hinge		144948	Arm, Idler, Primary Deck 46"
30	138776	Screw, Hex Head, Thdroll		146763	Pulley, Idler, V-Groove Dim. 4 25
31 32	129963 153531	Washer, Spacer Mower Vented Pulley, Mandrel		143651 158314	Mandrel Asm 44"/50" Service
33	137266	Nut, Fig. Top Lock Cntr. 9/16		150514	Deck Complete (Std. Deck-Order separately mulcher plate and gauge
34	144945	Anchor, Spring Deck 46"			wheel components Key Nos 101-
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt			106 and 116-118)
36	STD551037	Washer 13/32 x 13/16 x 16 Ga	NO		ant dimonsions given in LLC inches
37	131494	Pulley, Idler, Flat	NO.	1 inch = 25	nent dimensions given in U.S. inches

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

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TRACTOR - - MODEL NUMBER 917.258990 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 218-3010

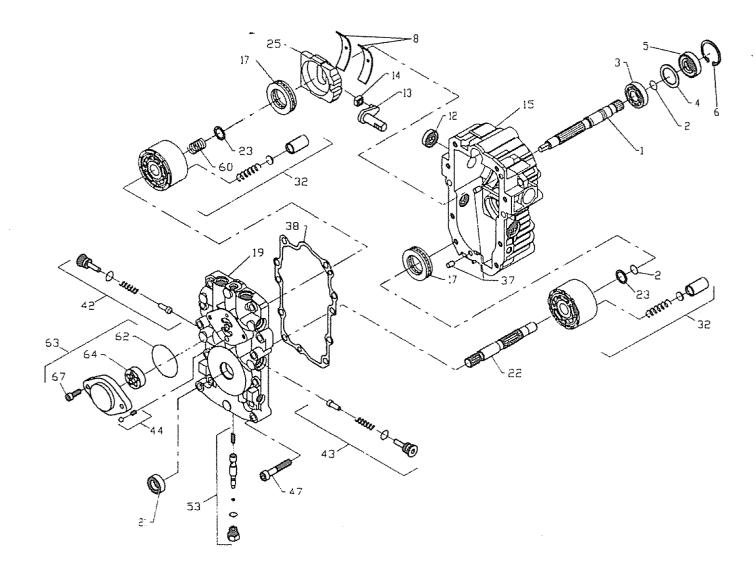


TRACTOR - - MODEL NUMBER 917.258990 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 218-3010

	DESCRIPTION			DESCRIPTION
142874 142875 153765 142876 142876 142877 142878 142879 142929 142880 142882 142883 142883 142884 142885 142886 142887 142888 142889 142890 142891 142891 142891 142891 142891	Assembly, Housing, LH Assembly, Housing, RH Oil Seal .984 x 1.5 x .25 Brake Shaft Assembly Axle Mounting Horn Assembly Washer 1.0 x 1.63 x .08 Washer 1.0 x 2.06 x .09 Brake Yoke Assembly Brake Arm Puck Plate Brake Puck Washer 7/8 O.D. x 7/16 x .060 Nut, Castle 5/16-24 Cotter Pin Brake Actuating Pin Hi Pro Key Spacer Brake Disc Bolt 1/4-20 x 1-1/2 Bolt 1/4-20 x 1 Differential Assembly Dowel Pin Reduction Gear, 14 Teeth to 38 Teeth	72 73 74 76 77 89 91 95 96 104 106 108 109 111 112 113 117 123	153767 142904 142905 142907 142908 142909 153768 142910 142911 142912 153769 142914 153770 142916 142916 142917 142918 142920 142921 150820 150823 150821 150822 150824	Locknut, Hex 5/16-18 Bolt, Hex 5/16-18 x 1-1/2 Hex Cap Screw 5/16-18 x 1 Shoulder Bolt Freewheel Actuating Arm Oil Seal .625 x 1.0 x .25 Grease (10 oz. Tube) Bolt, Hex 5/16-18 x 1-3/4 Bolt 5/16-18 x 4-1/2 Filter, Spin On Pump, BDU-10L-122 Plug, Straight Thread 60° 7/18 SAE x 5/16 Fitting Washer Vent Cap Assembly Fitting O-Ring Assembly Control Arm Set Screw Filter Head Hose 1/2" Fitting, 1/2" Beaded 90° 7/8 SAE Fitting, 1/2" Beaded 90° 9/16 Fitting, 1/2" Beaded 90° 9/16
142897 142898 142899 142900 142901 142902	Final Drive Pinion Assembly Jackshaft O-Ring Washer 5/8 X 1-5/32 Washer 7/8 X 1-1/2 Bolt Hex 5/16-18 x 3.5	129	153771 E: All compone	Pinch Clamp Spring, Long ant dimensions given in U.S. inches
	142875 153765 142876 142877 142878 142879 142929 142880 142882 142883 142884 142885 142886 142885 142886 142887 142899 142891 142892 153766 142894 150818 142897 142898 142899 142900	NO. DESCRIPTION 142874 Assembly, Housing, LH 142875 Assembly, Housing, RH 153765 Oil Seal .984 x 1.5 x .25 142876 Brake Shaft Assembly 142877 Axle Mounting Horn Assembly 142878 Washer 1.0 x 1.63 x .08 142879 Washer 1.0 x 2.06 x .09 142879 Brake Yoke Assembly 14280 Brake Yoke Assembly 14280 Brake Arm 142883 Brake Puck 142884 Washer 7/8 O.D. x 7/16 x .060 142885 Nut, Castle 5/16-24 142886 Cotter Pin 142887 Brake Actuating Pin 142888 Hi Pro Key 142890 Brake Disc 142891 Bolt 1/4-20 x 1-1/2 142892 Bolt 1/4-20 x 1 153766 Differential Assembly 142894 Dowel Pin 150818 Reduction Gear, 14 Teeth to 38 Teeth 142897 Final Drive Pinion Assembly 142898 Jackshaft 142899 O-Ring </td <td>NO. DESCRIPTION NO. 142874 Assembly, Housing, LH 72 142875 Assembly, Housing, RH 73 153765 Oil Seal .984 x 1.5 x .25 74 142876 Brake Shaft Assembly 76 142877 Axle Mounting Horn Assembly 77 142878 Washer 1.0 x 1.63 x .08 78 142879 Washer 1.0 x 2.06 x .09 79 142880 Brake Yoke Assembly 81 142880 Brake Arm 82 142882 Puck Plate 89 142883 Brake Puck 91 142884 Washer 7/8 O.D. x 7/16 x .060 95 142885 Nut, Castle 5/16-24 96 142886 Cotter Pin 103 142887 Brake Actuating Pin 104 142888 Hi Pro Key 106 142890 Brake Disc 109 142891 Bolt 1/4-20 x 1-1/2 110 142892 Bolt 1/4-20 x 1 111 153766 Differential Assembly<td>NO. DESCRIPTION NO. 142874 Assembly, Housing, LH 72 153767 142875 Assembly, Housing, RH 73 142904 153765 Oil Seal 984 x 1.5 x.25 74 142905 142876 Brake Shaft Assembly 76 142907 142877 Axle Mounting Horn Assembly 77 142908 142878 Washer 1.0 x 1.63 x.08 78 142909 142879 Washer 1.0 x 2.06 x.09 79 153768 142829 Brake Yoke Assembly 81 142910 142880 Brake Arm 82 142911 142880 Brake Arm 82 142912 142881 Brake Puck 91 153769 142882 Puck Plate 89 142912 142883 Brake Puck 91 1537769 142884 Washer 7/8 O.D. x 7/16 x .060 95 142914 142885 Nut, Castle 5/16-24 96 153770 142886 Cotter Pin 103</td></td>	NO. DESCRIPTION NO. 142874 Assembly, Housing, LH 72 142875 Assembly, Housing, RH 73 153765 Oil Seal .984 x 1.5 x .25 74 142876 Brake Shaft Assembly 76 142877 Axle Mounting Horn Assembly 77 142878 Washer 1.0 x 1.63 x .08 78 142879 Washer 1.0 x 2.06 x .09 79 142880 Brake Yoke Assembly 81 142880 Brake Arm 82 142882 Puck Plate 89 142883 Brake Puck 91 142884 Washer 7/8 O.D. x 7/16 x .060 95 142885 Nut, Castle 5/16-24 96 142886 Cotter Pin 103 142887 Brake Actuating Pin 104 142888 Hi Pro Key 106 142890 Brake Disc 109 142891 Bolt 1/4-20 x 1-1/2 110 142892 Bolt 1/4-20 x 1 111 153766 Differential Assembly <td>NO. DESCRIPTION NO. 142874 Assembly, Housing, LH 72 153767 142875 Assembly, Housing, RH 73 142904 153765 Oil Seal 984 x 1.5 x.25 74 142905 142876 Brake Shaft Assembly 76 142907 142877 Axle Mounting Horn Assembly 77 142908 142878 Washer 1.0 x 1.63 x.08 78 142909 142879 Washer 1.0 x 2.06 x.09 79 153768 142829 Brake Yoke Assembly 81 142910 142880 Brake Arm 82 142911 142880 Brake Arm 82 142912 142881 Brake Puck 91 153769 142882 Puck Plate 89 142912 142883 Brake Puck 91 1537769 142884 Washer 7/8 O.D. x 7/16 x .060 95 142914 142885 Nut, Castle 5/16-24 96 153770 142886 Cotter Pin 103</td>	NO. DESCRIPTION NO. 142874 Assembly, Housing, LH 72 153767 142875 Assembly, Housing, RH 73 142904 153765 Oil Seal 984 x 1.5 x.25 74 142905 142876 Brake Shaft Assembly 76 142907 142877 Axle Mounting Horn Assembly 77 142908 142878 Washer 1.0 x 1.63 x.08 78 142909 142879 Washer 1.0 x 2.06 x.09 79 153768 142829 Brake Yoke Assembly 81 142910 142880 Brake Arm 82 142911 142880 Brake Arm 82 142912 142881 Brake Puck 91 153769 142882 Puck Plate 89 142912 142883 Brake Puck 91 1537769 142884 Washer 7/8 O.D. x 7/16 x .060 95 142914 142885 Nut, Castle 5/16-24 96 153770 142886 Cotter Pin 103

TRACTOR - - MODEL NUMBER 917.258990

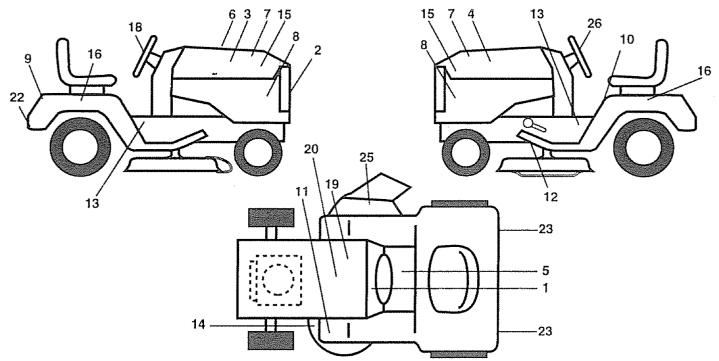
HYDRO GEAR PUMP - MODEL NUMBER BU-10L-122



KEY	PART			PART	
NO.	NÖ.	DESCRIPTION	NO.	NO.	DESCRIPTION
1 2 3 4 5 6 8 2 3 4 15 7 9 1 2 2	144569 122716X 122745X 122705X 122700X 122699X 122767X 122748X 122748X 122749X 144571 122770X 153801 122722X 144573	Shaft, Pump Ring, Retaining Bearing, Ball Spacer Seal, Lip Ring, Retaining Bearing, Cradle Seai, Lip Arm, Trunnion Guide, Slot Housing Kit. Transmission Bearing, Thrust, Ball Center Section Kit Seal, Lip Shaft, Motor	25 32 37 38 42 43 44 47 53 60 62 63 64 67	127148X 142938 122786X 122718X 144578 144578 144579 122752X 127153X 142977 144581 144582 144583 144584	Swashplate, Variable Block Assembly Pin, Stainless, Headless Gasket, Center Section 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
23	142978	Washer, Block Thrust		100/03	Pump Assembly, Complete

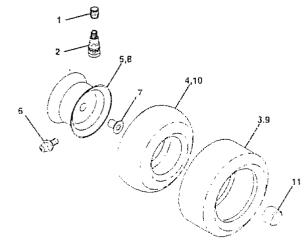
TRACTOR - - MODEL NUMBER 917.258990

DECALS



KEY	PART	
NO.	NÓ.	DESCRIPTION
1	156835	Decal, Operating Instruction
2	151448	Decal, Grille
3	146705	Decal, Hood, Craftsman, RH Polo
4	146706	Decal, Hood, Craftsman, LH Polo
5	140837	Decal, Brake Parking Saddle
6	133644	Decal, Maintenance
7	142241	Decal, PNL Side Kohler
8	151442	Decal, Ins. Hood 20.5 Twin Polo
9	146709	Decal, Fender, Craftsman Gold
10	156439	Decal, Fender Eng/Span Danger
11	4900J	Decal, Clutch/Brake
12	146790	Decal, V-Belt Sch VGT Srs Hydro
13	151401	Decal, Chassis, Hydro 46"
14	139346	Decal, V-Belt Schematic
15	138048	Decal, Side Panel Diehard White

WHEELS & TIRES



KEY PART NO. NO.

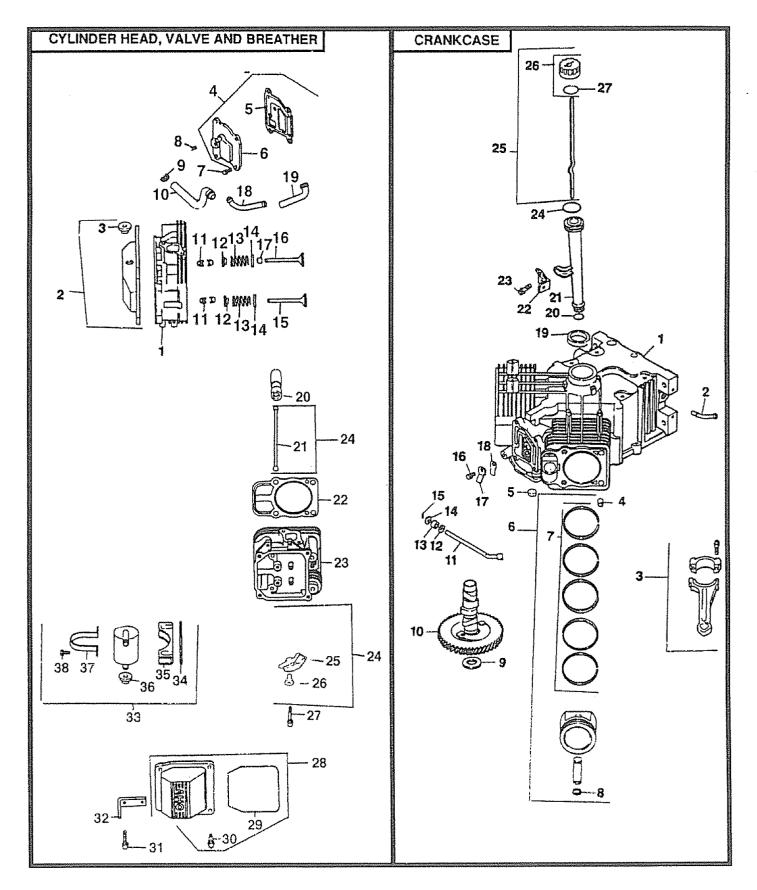
NO.		DESCRIPTION
16	149918	Decal, Fender Auto Trans Gold
18	146710	Decal, Insert Strg
19	138047	Decal, Battery Diehard Sears
20	149516	Decal, Battery
22	142342	Decal, Drawbar CNTRL
23	106202X	Reflector, Taillight
24	156787	Decal, Mower EZ3
26	150333	Decal, Cap CNSMR Help Line SRS
	138311	Decal, Handle LFT Hieght Adj. (Lift
		Handle)
	145245	Pad, Footrest
~ ~	145247	Fastener, Pop-in Footrest
	158452	Manual, Owner's (Eng)
	158454	Manual, Owner's (Span)

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)
4 5	106228X427	Rim Assembly. Front
6	278H	Fitting. Grease
	6856M	Fitting, Grease
7	9040H	Bearing, Flange (Front Wheel Only)
8	106277X427	Rim Assembly, Rear
8 9	105588X	Tire. Rear
	7154J	Tube, Rear
11	104757X	Cap, Hub Axle
	144334	Sealant. Tire (10 oz Tube)
NOTE: All component dimensions swap in LLC inches		

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

TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538



TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538

CYLINDER HEAD/VALVE/BREATHER

KEY NO.	PART NO.	DESCRIPTION	
1 2	24-318-11 24-755-76	Head Assembly, #1 Cylinder Kit, Valve Cover, Breather (Includes Key #3, 29 thru 30)	
3 4	25-313-02 24-033-03	Grommet, Rubber Kit, Breather Cover with Gasket (Includes Key Numbers 5 and 6)	
5 6 7	24-041-23 24-096-15 M-0645020	Gasket, Breather Cover, Breather Screw Hex Flange M6 x 1.0 x 20 (4)	
19 20 21 22	X-75-23 X-426-9 24-326-14 12-755-03 12-173-01 24-089-02 235011 24-016-01 24-016-02 24-017-01 24-017-02 24-032-05 24-294-06 24-326-13 12-351-01 24-411-05 24-041-08	Plug, Allen head, 1/8 Pipe Clamp, Hose (2) Hose, Breather Kit, Retainer (4) Cap, Valve Spring (4) Spring, Valve (4) Retainer, Spring (4) Valve, Exhaust, Standard Size (2) Valve, Exhaust, 25 Oversize (2) Valve, Intake, Standard Size (2) Valve, Intake, 25 Oversize (2) Seal, Valve Stem (2) Fitting Hose, Breather Lifter, Valve (4) Rod, Push (4) Gasket, Cylinder Head (2)	
23 24	24-318-12 24-755-66	Head Assembly, #2 Cylinder Kit, Valve Train (Includes Key Numbers 21, 25-26)	
25 26 27	25-186-01 24-599-01 M-0640034	Arm, Rocker (4) Pivot, Rocker Arm (4) Screw Hex Flange M6 x 1.0 x 34 (4)	
28	24-755-74	Kit, Valve Cover, Plain (Includes Key Numbers 29 thru 30)	
29 30 31	24-153-12 24-086-32 12-086-16	O-Ring Screw, Shoulder (4) Screw Hex Flange M10 x 1.5 x 90 (8)	
32 33	24-445-01 24-755-57	Strap, Lifting Kit, Breather Separator (Includes Key Numbers 34 thru 38)	
34 35 36 37 38	24-112-12 24-126-44 25-313-02 24-445-02 M-0545016	Spacer Bracket, Breather Separator Grommet, Rubber Strap, Breather Separator Screw Hex Flange M5 x 0 8 x 16 (2)	

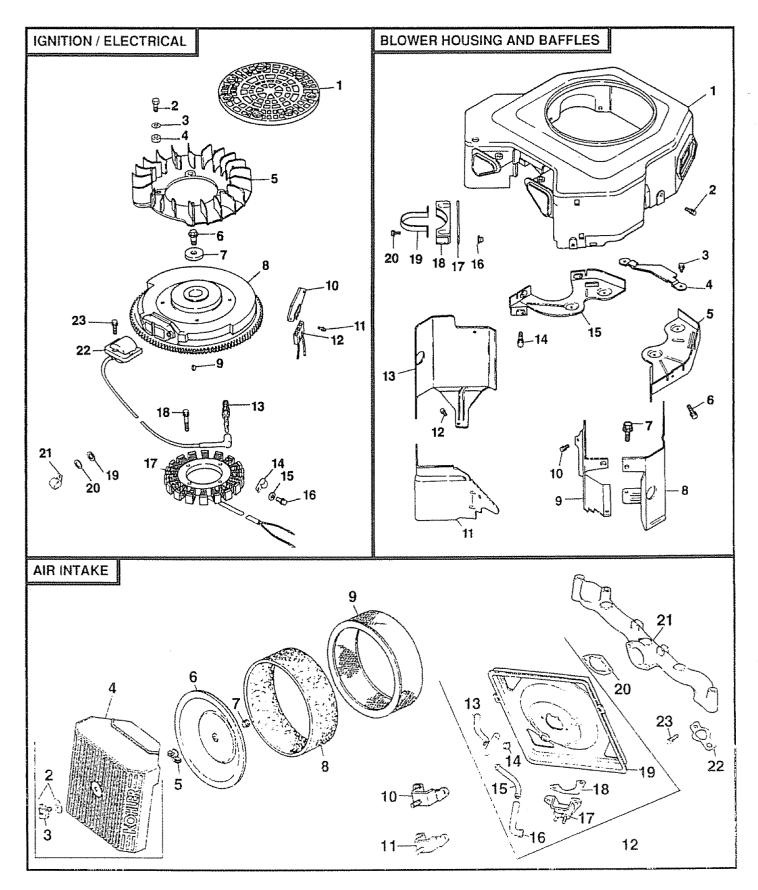
CRANKCASE

	PART NO.	DESCRIPTION
1	24-782-05	Cylinder Block (Use Mini Block)
2	24-294-03	Fitting
3	24-067-05	Connecting Rod (Standard) (2)
A	24-067-06	Connecting Rod (25) (2)
4 5	12-380-03 52-139-09	Pin, Dowel Locating (6) Plug, Cup
6	24-874-01	Piston with Ring Set (Standard) (2)
U	24-874-02	Piston with Ring Set (25) (2)
	24-874-03	Piston with Ring Set (.50) (2)
7	24-108-01	Ring Set (Standard) (2)
	24-108-02	Ring Set (.25) (2)
~	24-108-03	Ring Set (.50) (2)
8	24-018-01	Retainer, Piston Pin (4)
9	12-422-10 12-422-09	Shim, Camshaft, Yellow Shim, Camshaft, Red
	12-422-03	(As Required)
	12-422-13	Shim, Camshaft, Black
		(As Required)
	12-422-07	Shim, Camshaft, White
	10 400 00	(As Required)
	12-422-08	Shim, Camshaft, Blue (As Required)
	12-422-11	Shim, Camshaft, Green
		(As Required)
	12-422-12	Shim, Camshaft, Grey
40	<u></u>	(As Required)
10	24-010-03	Camshaft
11 12	24-144-01 M0631005	Shaft, Governor Cross Washer, Plain 6mm
10	12 022 01	Seal, Governor Cross Shaft
14	X-25-102	Washer, Plain 1/4
15	12-380-04	Pin, Hitch
16	M-0545010	Screw, Hex Flange
		M5 x 0.8 x 10 (2)
17	24-018-04	Retainer, Reed (2)
18	24-402-05	Reed, Breather (2)
19 20	24-032-01 12-153-01	Seal, Oil, Front O-Ring, Lower Oil Fill Tube
21	12-123-04	Tube, Oil Fill
22	24-126-19	Bracket, Oil Fill Tube
23	M-0545016	Screw, Hex Flange
<u>.</u>		M5 x 0.8 x 16
24 25	12-153-02	O-Ring, upper Oil Fill Tube
25 26	24-038-04 24-755-46	Dipstick Assembly (Includes 26-27) Kit, Oil Fill Cap (Includes 27)
20	12-153-03	O-Ring, Dipstick
		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

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

TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538



TRACTOR - - MODEL NUMBER 917.258990

12 24-755-86

13 24-326-13

15 24-294-06

24-326-14

24-109-06

24-041-13

24-094-04

14 X-426-9

16 17

18

19

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538

IGNITION/ELECTRICAL

	PART	
NO.	NO.	DESCRIPTION
1 2	24-162-17 M-0403025	Screen, Grass Screw, Hex, Cap M4 x 0.7 x 24 (4)
3 4 5 6	X-25-92 24-112-04 24-157-03 M-0639016	Washer, Plain 3/16 (4) Spacer, Fan (4) Fan Screw Hex, Flange M6 x 1.0 x 16 (4)
9 10 11	12-112-01 24-025-04 X-42-15 25-403-03 24-086-18 236602	Spacer, Fan (4) Flywheel Assembly Key Rectifier-Regulator Screw, Phillips (2) Hd. 11-16 x 7/8 Connector, Rectifier-Regulator, 3 Contact
13 14 15 16	12-132-02 48-154-02 12-468-03 12-086-14	Spark Plug (2) Clip, Cable Washer, Plain 3/8 Screw, Hex, Flange M10 x 1.5 x 46
17 18	24-085-01 M-0548025	Stator, 15 Amp Screw, Hex, Cap M5 x 0.8 x 25 (2)
21	X-25-63 X-25-92 235173 24-584-01 SM-0545020	Washer, Plain 1/4 (2) Washer, Plain 3/8 (2) Clip, Cable Module, Ignition (2) Screw, Hex, Flange M5 x 0.8 x 20 (4)
	ILLUSTRATED 24-176-12 25-518-28 24-113-18	Harness, Wire Lead, Black (4", 18 Gauge, Insulated Grip Barrel Eyelets) Decal, Grass Screen

BLOWER HOUSING & BAFFLES

KEY NO.	PART NO.	DESCRIPTION
1	24-027-20	Housing, Blower
2	M-0545016	Screw, Hex Flange M5 x 0 8 x 16 (3)
3	M-0645016	Screw, Hex Flange M6 x 1.0 x 16 (4)
4	24-314-05	Guard, Flywheel
5	24-146-02	Plate, Backing, # 2 Side
6	M-0545020	Screw, Hex Flange M5 x 0 8 x 20 (2)
7	M-0551016	Screw, Hex Flange M5 x 0 8 x 16
8	24-063-20	Baffle. Cylinder Barrel, # 2 Side
9	24-063-14	Baffle. Valley, # 2 Side

5 x 0.8 x 10 5 x 0.8 x 16 5 x 1 Side
5 x 0.8 x 16
1 Side
5 x 1.0 x 16
le arator 3 x 1/2 (2) Housing) Housing) Housing)
(Includes 11)
cludes Key
er

24-041-14 Gasket, Air Cleaner Base 20 21 24-164-06 Manifold. Intake 22 24-041-01 Gasket, Intake Manifold (2) Screw. Hex Flange M6 x 1 0 x 55 23 M-0651055 $\{4\}$ NOT ILLUSTRATED Decal, Air Cleaner - - 12-113-53

Numbers 13-20)

Hose, Breather

Clamp, Hose (2)

Hose, Breather

Cup, Fuel Spitback

Base, Air Cleaner

Gasket, Fuel Spitback Cup

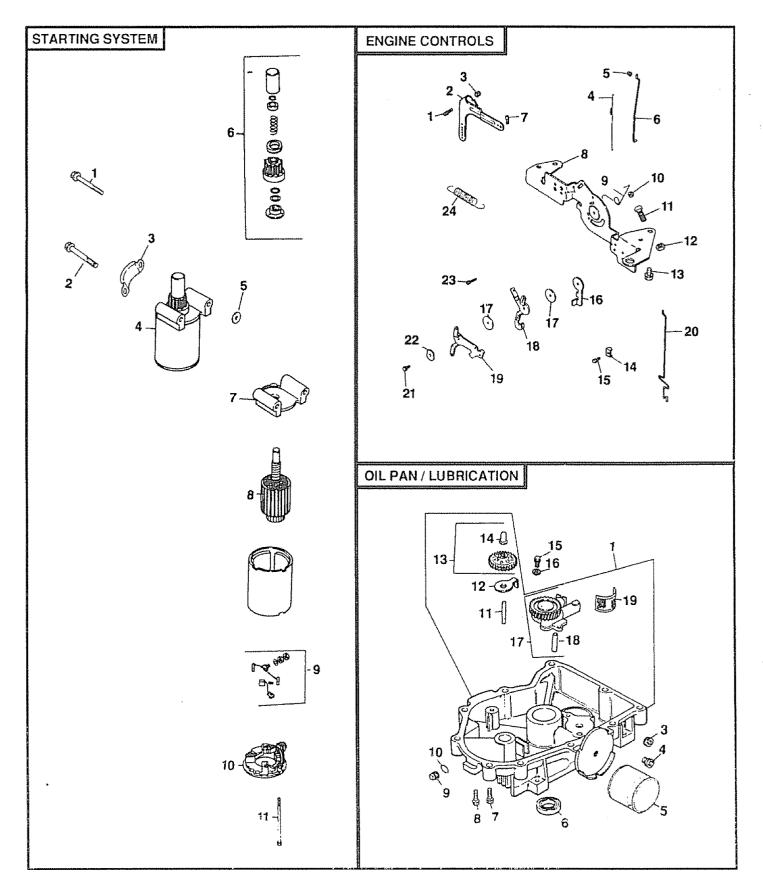
Fitting

Kit, Air Cleaner Base (Includes Key

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

TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538



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STARTING SYSTEM

	DESCRIPTION
M-0839070	Screw, Hex Flange M8 x 1.25 x 70
	Screw, Hex Flange M8 x 1.25 x 80
	Cover, Pinion
25-098-03	Starter Assembly (Includes 6-11)
12-468-01	Washer, Plain 11/32 (3)
12-755-54	Kit, Drive End
12-227-06	Cap, Drive End
45-170-03	Armature
82-755-28	Kit, Brush and Spring
12-227-11	Cap, Commutator End
12-086-25	Bolt, Hex Flange 1/4-20x4-5/8 (2)
	M-0839080 24-096-05 25-098-03 12-468-01 12-755-54 12-227-06 45-170-03 82-755-28 12-227-11

OIL PAN/LUBRICATION KEY PART NO. NO. DESCRIPTION 1 24-199-07 Oil Pan Assembly (Includes Key Numbers 11-14 and 17-19) Plug, Hex, Countersunk, 3/8 Nipple, Oil Filter Filter, Oil Seal, Oil (PTO End) X-75-32 3 4 24-136-01 5 12-050-01 6 52-032-08 Screw, Hex Flange M8 x 1.25 x 45 Screw, Hex Flange M8x1.25x45 (9) Plug, Solid, Square Head, 3/8 24-086-17 7 8 24-086-16 9 X-75-10 O-Ring Shaft, Governor Gear Tab, Locking 24-153-08 10 11 12-144-02 52-448-02 12 Kit, Governor Gear with Pin (Includes Key Number 14) Pin, Governor Regulating Screw,Hex Flange M6 x 1 0 x 25 (2) 24-043-12 13 12-380-01 14 15 M-0645025 Washer, Plain 6mm (2) Oil Pump Assembly (Includes 17) Tube, Oil Pickup 16 M-0631005 17 24-393-08 18 24-123-05 19 25-162-07 Screen, Oil

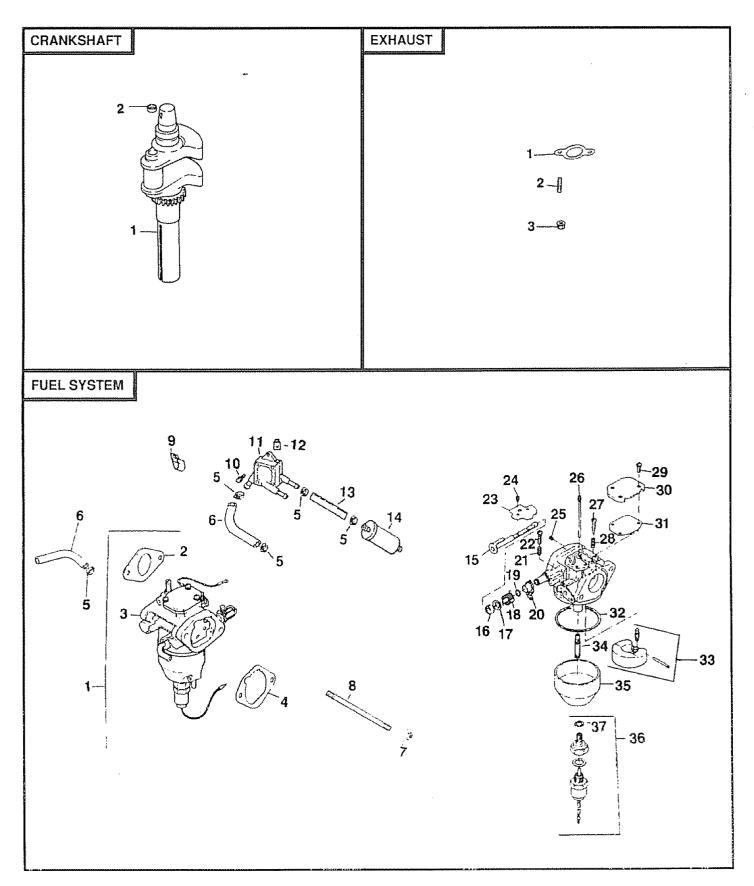
ENGINE CONTROLS

	' PART NO.	DESCRIPTION
1 2 3 4		Screw, Hex Flange M6 x 1.0 x 25
2	24-090-14	Lever, Governor
3	M-0641060	Nut, Hex Flange M6 x 1.0
4	24-089-01	Spring, Linkage
- 5	25-158-08	Bushing, Linkage Retaining
6	24-079-04	Linkage, Throttle
7	25-158-11 24-126-13	Bushing, Throttle Linkage
8	24-126-13	Bracket, Control
9		Spring, Choke Return
	M-0547050	Locknut, Hex M5 x 0.8
	M-0545016	Screw, Hex Flange M5 x 0.8 x 16
	M-0446030	Nut, Hex M4 x 0.7
	M-0645016	Screw, Hex Flange M6x1.0 x 16 (4)
	12-237-01	Clamp, Cable (2)
15		Screw, Hex Flange M5x0.8 x 16 (2)
	24-090-07	Lever, Throttle Actuator
17	24-468-01	Washer, Plain 5.5mm (3)
	24-090-13	Lever, Throttle Control
	24-090-05	Lever, Choke
	24-079-05	Linkage, Choke
21	M-0545020	Screw, Hex Flange M5 x 0.8 x 20
	41-468-03	Washer, Spring 1/4
	M-0403025	Screw, Hex Cap M4 x 0.7 x 24
24	24-089-18	Spring, Governor 25

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

TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538



TRACTOR - - MODEL NUMBER 917.258990

KOHLER ENGINE - MODEL NUMBER CV20S, TYPE NUMBER 65538

FUEL SYSTEM

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	PART NO.	DESCRIPTION
1	24-853-19	Kit, Carburetor with Gasket
2 3	24-041-15 24-053-19	(Includes Key Numbers 2 thru 4) Gasket, Carburetor Carburetor Assembly (For Information Only, Not Available Separately) (Includes 15-37)
4	Gasket, Air Cl	aner Base
5	24-041-14	Clamp, Hose (6)
6	X-426-9	Line, Fuel, 10-5/8" (2)
7	24-353-03	Nut Hex, Flange M6 x 1 0 (2)
8		tud M6 x 1.0 x 95 (2)
9	M-0629095	Clip, Cable
10	47-154-01	Screw, Hex Cap Head
	24-086-12	M6x1.7x18 (2)
11	04 000 04	Pump, Fuel, Pulse
12	24-393-04	Nut, Plastic (2)
13	24-100-01	Line, Fuel, 13-1/2"
14 15	25-353-03 25-050-03	Filter, Fuel
	24-144-15	Shaft, Choke Washer, Felt 5.7 mm
17	24-468-05	Collar, Choke
18	24-241-01	Spring, Choke Return
19	24-089-22	Ring, Choke Lever
20	24-141-04	Lever, Choke
	24-090-10	Spring, Throttle Adjust Screw
22	24-089-24	Screw, Throttle Adjust
23	24-086-19	Choke Plate
24	24-146-13	Screw, Throttle and Choke Shaft (4)
25	24-086-20	Jet, Air Bleed
26 27	24-337-27	Jet, Slow
	24-337-11 24-086-22	Screw, Idle Adjust Spring, Idle Adjust Screw
29	24-089-23	Screw, Sems, Pan Hd M4x0 7x8 (3)
	24-086-21	Cover, Passage
31	24-096-13	Gasket, Passage Cover
32	24-041-18	Gasket, Float Chamber
33	24-041-19	Kit, Float Repair
34	24-757-05	Nozzle, Main
	24-369-01	Chamber, Float
36	24-234-01	Kit, Solenoid Valve (Includes 37)
37	24-755-15	Gasket, Chamber Screw
	124-041-21LLL	
~ ~ • •	24-041-15 24-757-06	Gasket, Carburetor Kit, Carburetor Repair

		24-041-10	Gashel, Gaibuleitti
-	-	24-757-06	Kit, Carburetor Repair

CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION	
1 2	24-014-72 52-139-09	Crankshaft Plug, Cup	
EXHAUST			
KEY NO.	PART NO.	DESCRIPTION	
		DESCRIPTION Gasket, Exhaust (2) Stud M8 x 1.25 x 33 (4)	

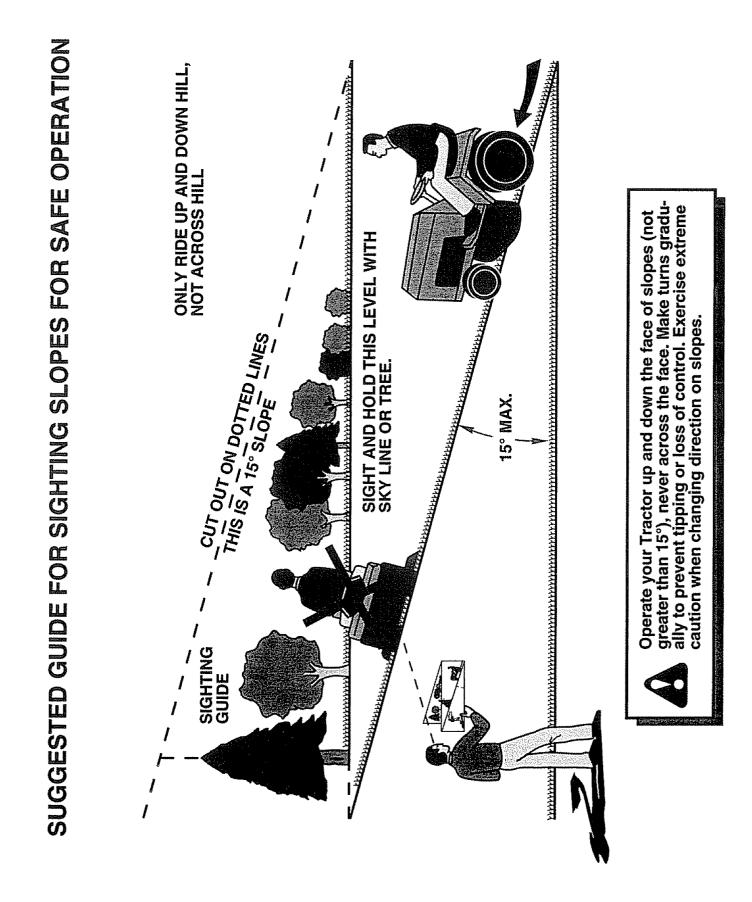
NOT ILLUSTRATED

KEY PART

NO.	NO.	DESCRIPTION
Talitate	24-522-16	Short Block
	24-755-03	Gasket Set
	24-782-05	Miniblock
	RPM Settings:	Low Speed: 1150-1650
		High Speed: 3200-3400

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

SERVICE NOTES





OWNER'S MANUAL

MODEL NO. 917.258990

IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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

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

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

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

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

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

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

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 917.258990
- ENGINE MODEL NO. CV20S-65538
- PART NUMBER
- PART DESCRIPTION

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