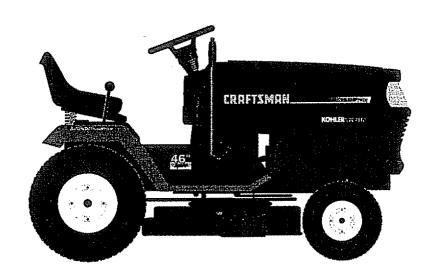
SEARS

**MODEL NUMBER 917.251492** 

**OWNER'S MANUAL** 

- Assembly
- Operation
- Customer ResponsibilitiesService and Adjustments
- Repair Parts





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

#### **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.
- Tum 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
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

#### 111. 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
- 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
- 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 nec-
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



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



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

# WARNING 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".

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### MAINTENANCE AGREEMENT

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

# **CUSTOMER RESPONSIBILITIES**

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

### **PRODUCT SPECIFICATIONS**

HORSEPOWER:	18.5
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .025")	CHAMPION RV17YC
VALVE CLEARANCE:	INTAKE: .003"006" EXHAUST: .013"016"
GROUND SPEED (MPH):	FORWARD: 0-5.7 REVERSE: 0-2.1
TIRE PRESSURE:	FRONT: 14 PSI RÈAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

# LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

# **LIMITED 90 DAY WARRANTY ON BATTERY**

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

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

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

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

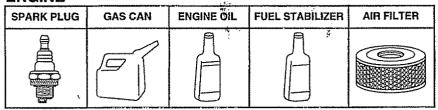
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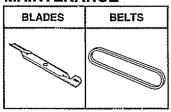
# **ACCESSORIES AND ATTACHMENTS**

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

#### **ENGINE**



#### MAINTENANCE



#### PERFORMANCE

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

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

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

BUMPER protects front end of tractor from damage.

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

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 line 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, com, and other deep-seeded crops.

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

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

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

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

SWEEPERS let you collect grass clippings and leaves. -

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

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

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

VACS for powerful collection of heavy grass clippings and leaves.

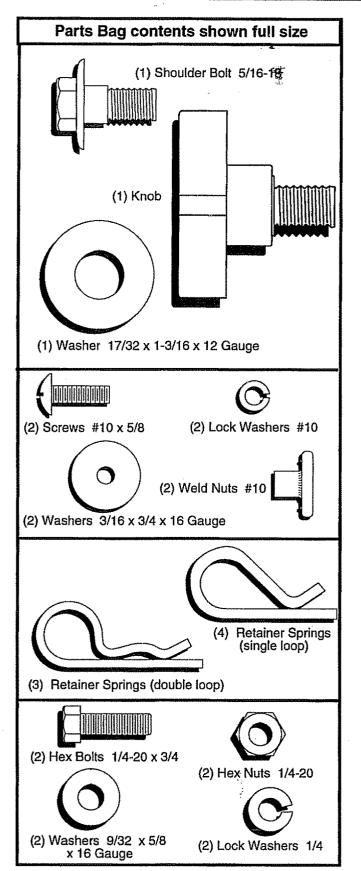
Optional wand attachment to pick up debris in hard-to-reach places.

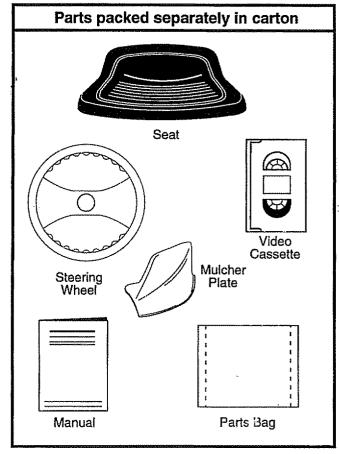
VAC/CHIPPER includes a chipper-shredder.

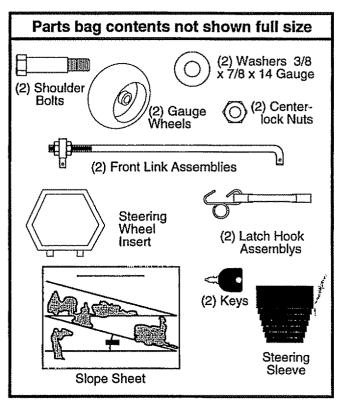
**WEIGHT BRACKET** for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb. weight.

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

# **CONTENTS OF HARDWARE PACK**







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

# TOOLS REQUIRED FOR ASSEMBLY

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

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

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

# TO REMOVE TRACTOR FROM CARTON

#### **UNPACK CARTON**

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

# BEFORE ROLLING TRACTOR OFF SKID

# ATTACH STEERING WHEEL (See Fig. 1)

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

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

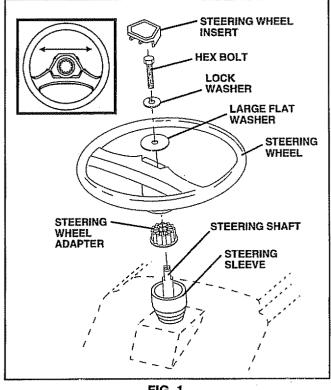


FIG. 1

### 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.

### **HOW TO SET UP YOUR TRACTOR**

### **CONNECT BATTERY (See Fig. 2)**



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

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

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

Use terminal access doors for:

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

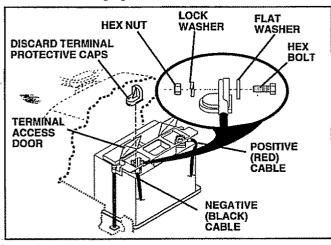


FIG. 2

### **INSTALL SEAT (See Fig. 3)**

Adjust seat before tightening adjustment knob.

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

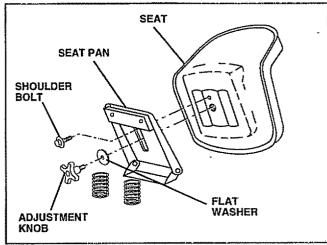


FIG. 3

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

- Place the R.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm Retain with double loop retainer spring 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 mower to highest position.
- Assemble gauge wheels (See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual).

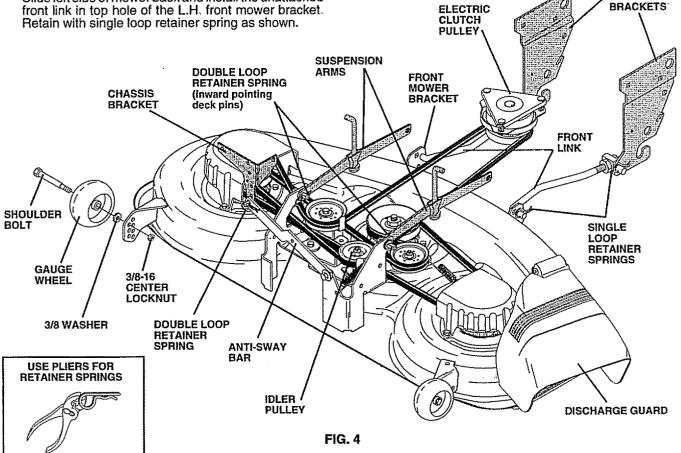
#### CHECK MOWER LEVELNESS

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.

> FRONT SUSPENSION



### **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.

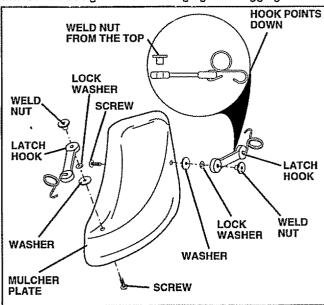


FIG. 5

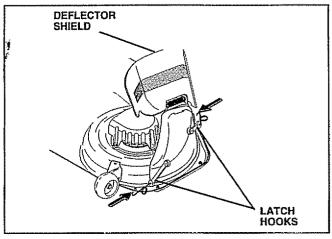


FIG. 6

### √ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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



**BATTERY** 



CAUTION OR WARNING



**REVERSE** 



**FORWARD** 



FAST



SLOW



**ENGINE ON** 



**ENGINE OFF** 



OIL PRESSURE



**CLUTCH** 



LIGHTS ON



LIGHTS OFF



**FUEL** 



CHOKE



MOWER HEIGHT



DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



REVERSE



**NEUTRAL** 



HIGH



LOW



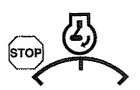
• •



ATTACHMENT CLUTCH ENGAGED



ATTACHMENT CLUTCH DISENGAGED

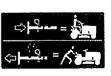


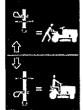
PARKING BRAKE

**IGNITION** 



DANGER, KEEP HANDS AND FEET AWAY





HYDROSTATIC FREE WHEEL (Hydro Models only)

### **KNOW YOUR TRACTOR**

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

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

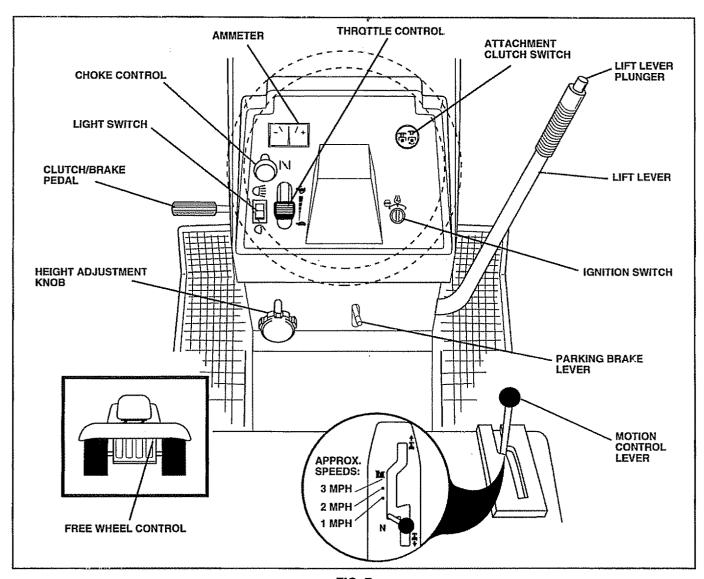


FIG. 7

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

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

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

CHOKE CONTROL - Used when starting a cold engine.

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

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

**HEIGHT ADJUSTMENT KNOB** - Used to adjust the mower cutting height.

**IGNITION SWITCH** - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

MOTION CONTROL LEVER - Selects the speed and direction of the tractor.

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



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 repair. 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.

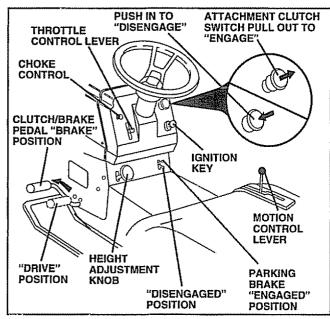


FIG. 8

# STOPPING (See Fig. 8)

MOWER BLADES -

Move attachment clutch switch to "DISENGAGED" position.

#### **GROUND DRIVE -**

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

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

• Move throttle control to slow (-) position.

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

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

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



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

### TO USE 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 ( ) to raise cutting height.
- Turn knob counterclockwise () 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.

### TO ADJUST GAUGE WHEELS (See Fig. 9)

Adjust gauge wheels with tractor on a flat level surface.

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

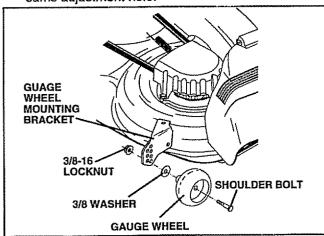


FIG. 9

# TO OPERATE MOWER (See Figs. 7 and 8)

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

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



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

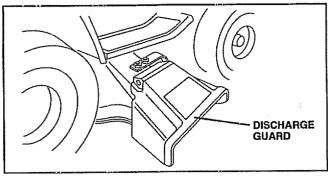


FIG. 10

### TO OPERATE ON HILLS



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

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

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

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

# TO TRANSPORT (See Figs. 7 and 11)

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

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

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

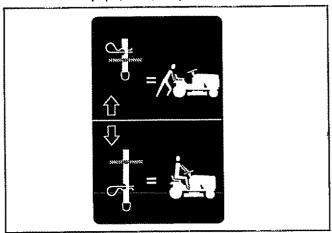


FIG. 11

# **BEFORE STARTING THE ENGINE**

### CHECK ENGINE OIL LEVEL (See Fig. 12)

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

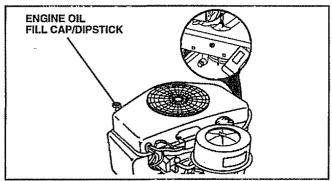


FIG. 12

# **ADD GASOLINE**

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline 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 choke (|\(\neg\)) position.

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, move throttle control to fast (4) position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke (|\)| position and retry.

#### WARM WEATHER STARTING (50° F and above)

- When engine starts, move the throttle control to the fast
   (\*) position.
- 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, allow engine to run with the throttle control in the choke (|\(\circ\)) position until the engine runs roughly, then move throttle control to fast (((\(\dec\))) position. 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 also be used during the engine warm-up period after the transmission has been warmed up.

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

### **PURGE TRANSMISSION**



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

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

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

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

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

- Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move 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.

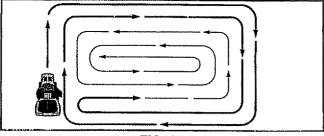


FIG. 13

### **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.

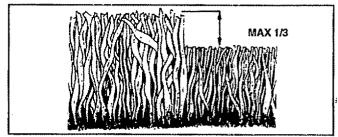


FIG. 14

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE  REFORE FICH DEFE REFORE FROM B. HOURS HOURS HOURS HOURS FOR SEASON STORAGE REFORE FROM B. HOURS HOURS HOURS HOURS HOURS FOR SEASON SERVICE DATES												
	Check Brake Operation	8/	i i i i i i i i i i i i i i i i i i i	0/								-
	Check Tire Pressure	6/		8/							1	
Ţ	Check for Loose Fasteners	6/					6/7		Book			
R	Sharpen/Replace Mower Blades				<b>3</b> 4							
ĉ	Lubrication Chart				8/				8			
Ť	Check Battery Level/Recharge				6							
0	Clean Battery and Terminals				8/				6/			
R	Check Transaxle Cooling				B/					***************************************		
	Adjust Blade Belt(s) Tension						<b>1</b> 5					
	Adjust Motion Drive Belt(s) Tension						6/5					
	Check Engine Oil Level	<b>V</b>		1								
	Change Engine Oil		0/		1,2,3				8/			
E	Clean Air Filter				<b>1</b> /2							
N	Clean Air Screen				<b>8</b> /2							
G	Inspect Muffler/Spark Arrester					W/						
	Replace Oil Filter (If equipped)						1,2					
N E	Clean Engine Cooling Fins						<b>3</b> /2					
	Replace Spark Plug					-	4	<b>%</b>				
	Replace Air Filter Paper Cartridge						<b>6</b> /2					
	Replace Fuel Filter							<b>6</b> /				

- 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 moving in sandy soil.

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front axte pivot bolt to 35 ft.-lbs. maximum. Do not overlighten.

### GENERAL RECOMMENDATIONS

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

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

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

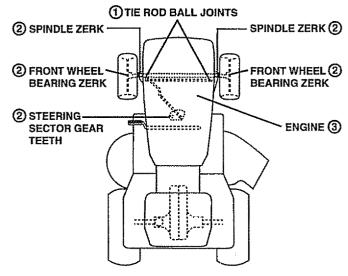
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

#### **BEFORE EACH USE**

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

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

### LUBRICATION CHART



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

### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### **TIRES**

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

#### **BLADE CARE**

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

### **BLADE REMOVAL (See Fig. 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 HEATTREATED.

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

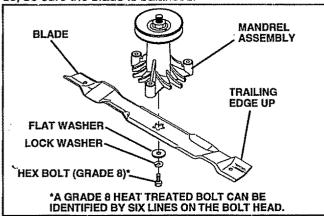


FIG. 15

### 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.

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

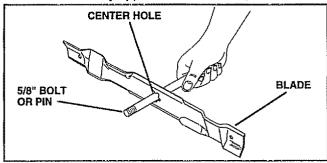


FIG. 16

#### **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.

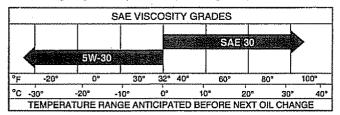
#### **V-BELTS**

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



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

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

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

#### TO CHANGE ENGINE OIL (See Fig. 17)

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

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

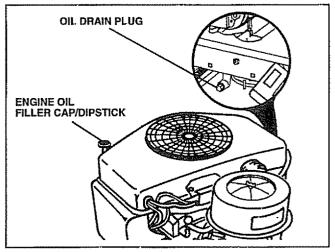


FIG. 17

### 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.

### **ENGINE COOLING FINS (See Fig. 18)**

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

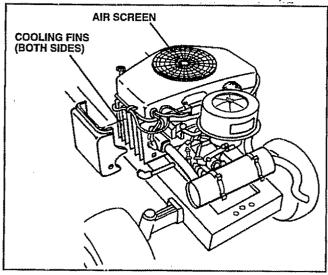


FIG. 18

# 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.

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

#### TO SERVICE PRE-CLEANER

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

#### TO SERVICE CARTRIDGE

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

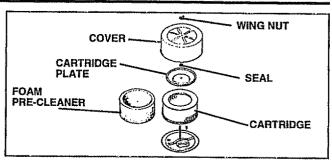


FIG. 19

### **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.

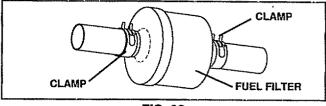


FIG. 20

### **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.

# 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.
- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt from electric clutch pulley.
- · Slide mower out from under right side of tractor.

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

#### TO INSTALL MOWER

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

### TO LEVEL MOWER HOUSING

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

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

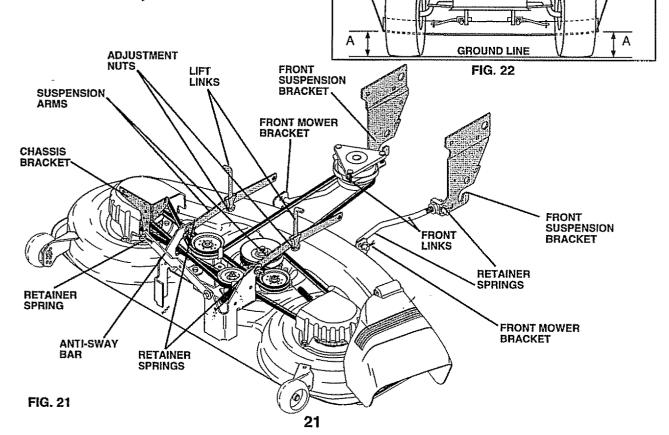
- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link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

**BOTTOM OF** 

CURL

Recheck measurements after adjusting.



**BOTTOM OF** 

CURL

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.

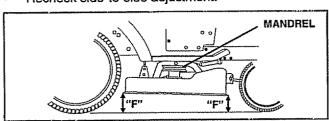


FIG. 23

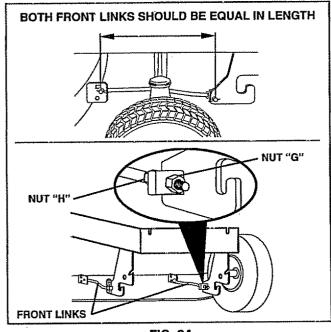


FIG. 24

### 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.

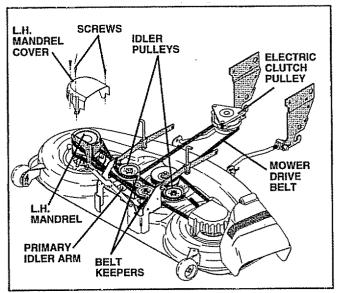


FIG. 25

# 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).

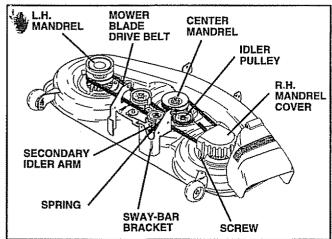


FIG. 26

# 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.

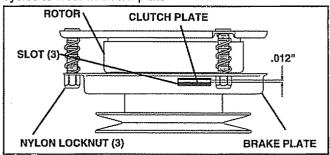


FIG. 27

# 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.

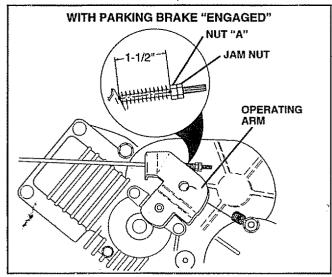


FIG. 28

# 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.
- Remove belt from transaxle pulley.
- Remove belt from engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers and remove from tractor.

#### **BELT INSTALLATION -**

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

### IMPORTANT: CHECK BRAKE ADJUSTMENT.

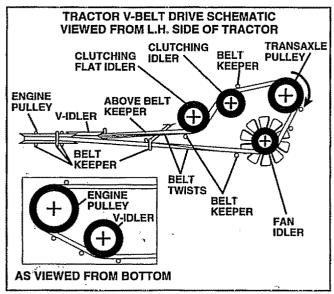


FIG. 29

# 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.

### TRANSMISSION REMOVAL/REPLACEMENT

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

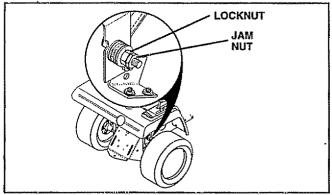


FIG. 30

### TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

### FRONT WHEEL TOE-IN ADJUSTMENT

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

### TO CHECK TOE-IN (See Fig. 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.

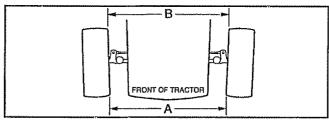


FIG. 31

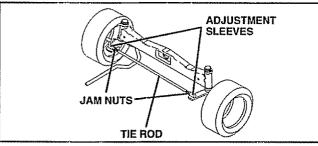


FIG. 32

### 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.

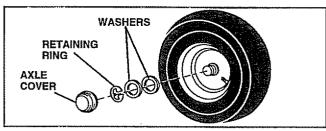


FIG. 33

#### **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.

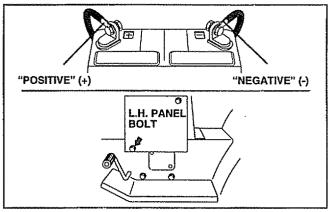


FIG. 34

#### 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.

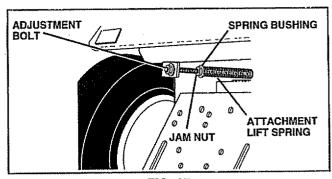


FIG. 35

# 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.

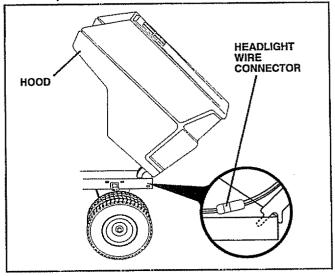


FIG. 36

#### **ENGINE**

# TO ADJUST THROTTLE CONTROL GABLE (See Figs. 37 & 38)

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

- With engine not running, move throttle control lever to fast (�) position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

### TO ADJUST CARBURETOR (See Fig. 39)

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

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

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

#### PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see above).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 turns.
- Turn main fuel adjusting needle in (clockwise) closing finger tight and then turn out (counterclockwise) 1 turn.

#### FINAL SETTING -

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

#### **ACCELERATION TEST -**

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

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

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

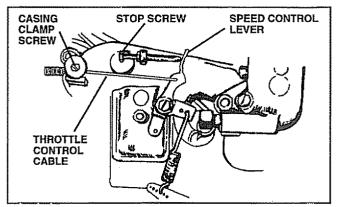


FIG. 37

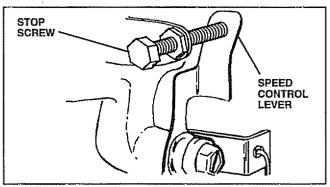


FIG. 38

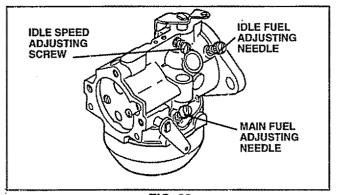


FIG. 39

# **STORAGE**

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



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

### **TRACTOR**

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

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

#### **BATTERY**

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

### **ENGINE**

### **FUEL SYSTEM**

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

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

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

#### ENGINE OIL

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

#### **CYLINDERS**

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

#### OTHER

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

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

# TROUBLESHOOTING POINTS

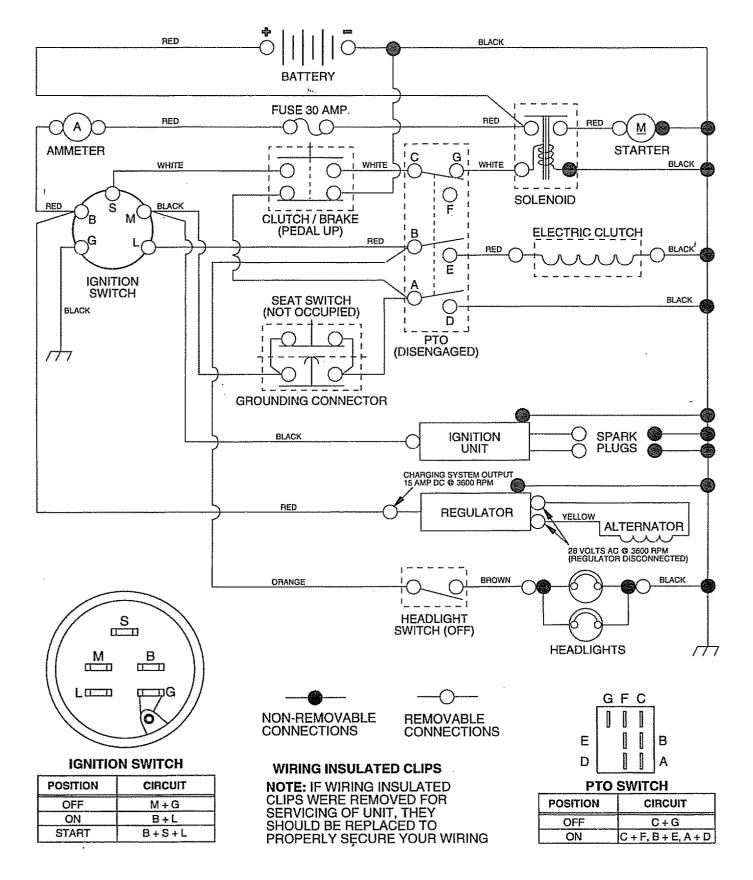
PROBLEM	CAUSE	CORRECTION				
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>				
Hard to start	<ol> <li>Dirty air filter.</li> <li>Bad spark plug.</li> <li>Weak or dead battery.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment</li> </ol>	<ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>				
Engine will not turn over	<ol> <li>Clutch/brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty ignition switch.</li> <li>Faulty operator presence switch(es).</li> </ol>	<ol> <li>Depress clutch/brake pedal.</li> <li>Disengage attachment clutch.</li> <li>Recharge or replace battery.</li> <li>Replace fuse.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace ignition switch.</li> <li>Check/replace solenoid or starter.</li> <li>Contact an authorized service center/department.</li> </ol>				
Engine clicks but will not start	Weak or dead battery.     Corroded battery terminals.     Loose or damaged wiring.     Faulty solenoid or starter.	1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.				
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faully spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel.  10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	<ol> <li>Set in "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter.</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean engine air screen/fins.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>Contact an authorized service center/department.</li> <li>Contact an authorized service center/department.</li> </ol>				
Excessive vibration	Worn, bent or loose blade.     Bent blade mandrel.     Loose/damaged part(s).	Replace blade. Tighten blade bolt.     Replace blade mandrel.     Tighten loose part(s). Replace damaged parts.				

# **TROUBLESHOOTING POINTS**

PROBLEM	CAUSE	CORRECTION				
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.				
Poor cut : uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>				
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	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual. 11. Clean around mandrels to open vent holes.				
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.				
Battery will not charge	Bad battery cell(s).     Poor cable connections.     Faulty regulator (if so equipped).     Faulty alternator.	Replace battery.     Check/clean all connections.     Replace regulator.     Replace alternator.				
Loss of drive	Freewheel control in "disengaged" position.     Motion drive belt worn, damaged or broken.     Air trapped in transmission during shpment or servicing.	Place freewheel control in "engaged" position.     Replace motion drive belt.     Purge transmission.				
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW"     position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.				

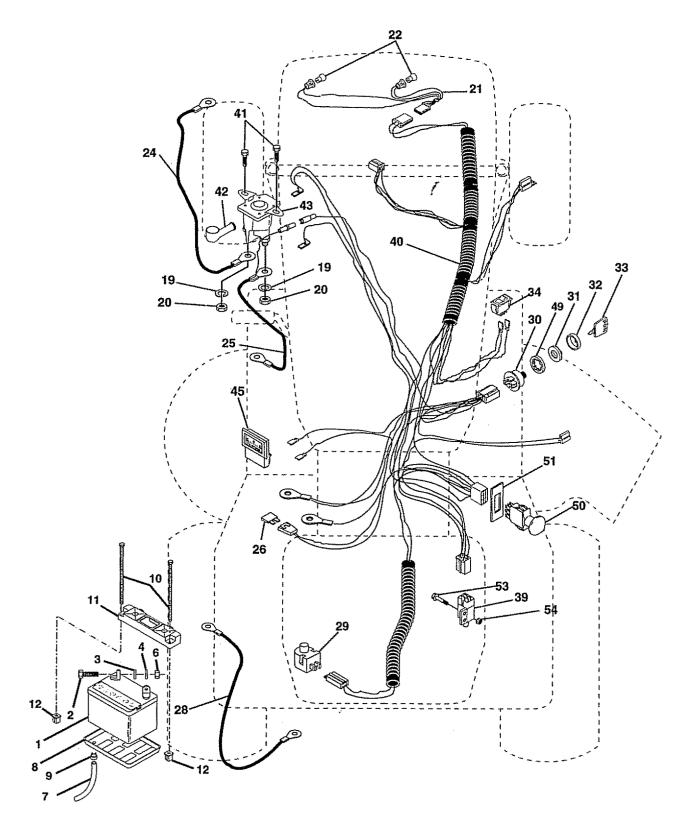
### TRACTOR - - MODEL NUMBER 917.251492

### **SCHEMATIC**



# TRACTOR - - MODEL NUMBER 917.251492

# **ELECTRICAL**



# **TRACTOR - - MODEL NUMBER 917.251492**

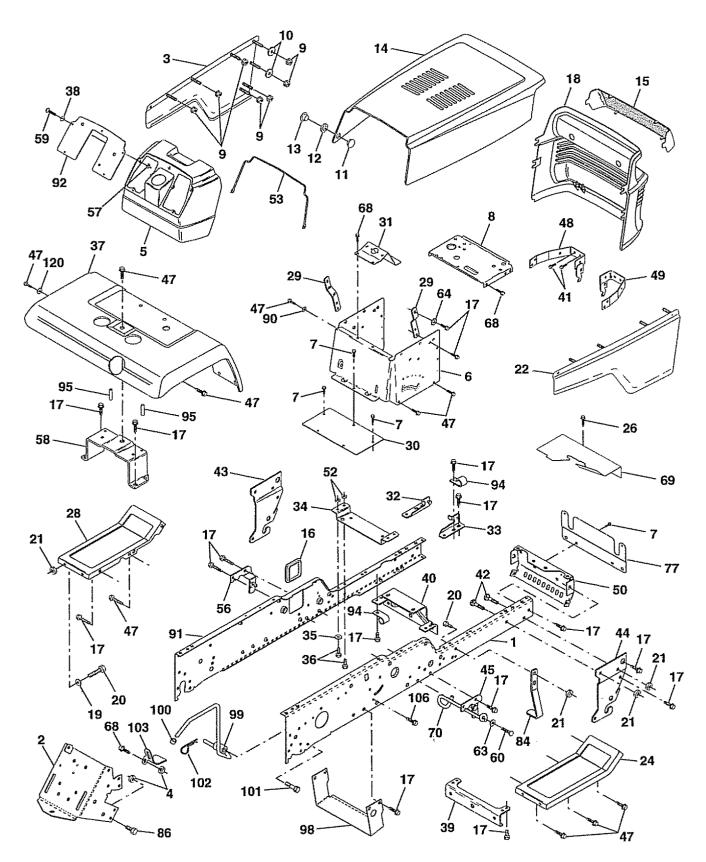
# **ELECTRICAL**

KEY NO.	PART NO.	DESCRIPTION
12 19 20 21 22 24 25 26 28 29 31 32 33 44 44 45 49 55 51	73350400 136850 4152J 4799J 146149 108824X 4207J 121305X 144921 140400 141226 140403 110712X 109553X 146065 17720408 131563 145673 122822X 153249 146283 140405 71031008	Battery 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 Wet BTR 1/4-20 x 7.5 Zinc Hold down Battery Dash Mount Nut Push Nylon 1/4" Wet Battery Washer, Lock 1/4 Nut, Jam Hex 1/4-20 Harness Socket Light W/4152J Bulb Light Cable, Battery Cable 6 Ga. Red 12.5" W 16 Wire Fuse Cable, Ground Switch, Plunger Switch, Ign Nut, Ignition Switch Cover Switch Key Key Switch, Light Intlk Switch Harness Ign. Screw 1/4-20 x 1/2 Cover, Terminal Red Solenoid Ammeter Washer Pinned Delta Switch, PTO Ring Retainer PTO Screw Hex Washer Hd #10-32 x 1 Nut Keps #10-32

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

# **TRACTOR - - MODEL NUMBER 917.251492**

# **CHASSIS AND ENCLOSURES**



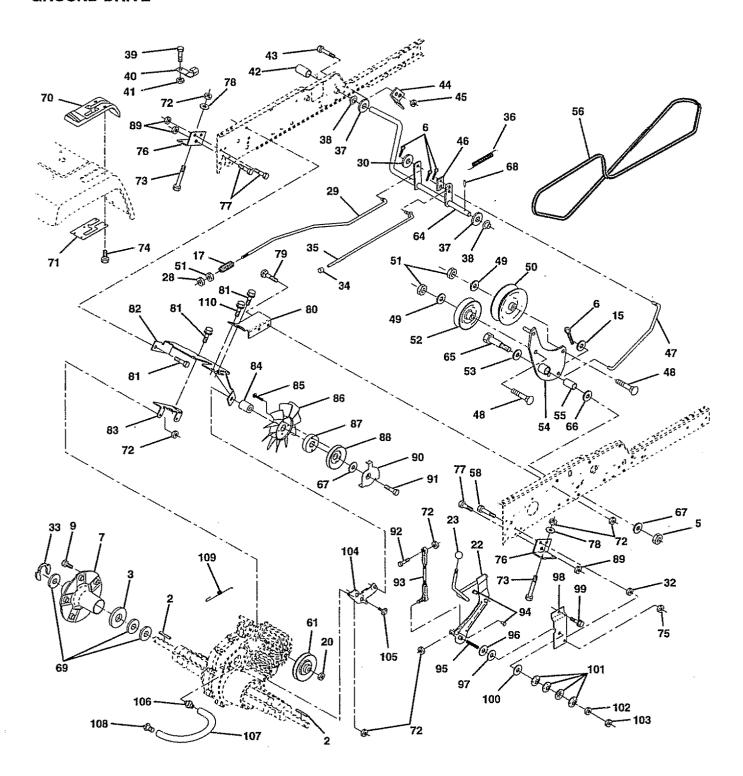
# TRACTOR - - MODEL NUMBER 917.251492

# **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	150253	Rail, Frame RH	43	136939	Bracket, Spnsn Front Lh
2	140506	Drawbar, Gt	44	136940	Bracket, Spnsn Front Rh
3	136671X558		45	138460	Bracket Asm., Susp Chassis Rh
4	73800700	Nut, Lock Hex 7/16 Unc	47	17490608	Screw Thdrol 3/8-16 x 1/2
5	145203	Dash, Plastic Black	48	136814	Bracket Asm., Pivot Hood Lh
6	150273	Dash Asm., Lower		136813	Bracket Asm., Pivot Hood Rh
7	17720408	Screw, Thd Cut 1/4-20 x 1/2		152728	Bracket, Chassis Front
8	145166	Support, Battery	52	73680500	Nut, Crownlock 5/16-18
9	108067X	Nut, Pal		137304	Rod, Support Hood
10	19092016	Washer 9/32 x 1-1/4 x 16 Ga.	56	138461	Bracket Asm., Susp Chassis Lh
11	137270	Rivet, Ratchet Male	57	73640400	Nut, Keps Hex 1/4-20
12	137269	Washer, Nylon	58	137113	Bracket Asm., Fender
13	137271	Rivet, Ratchet Female	59	74180412	Screw, Mach Cr 1/4-20 x 3/4
14	136673X558		60	17490620	Screw Thdrol 3/8-16 x 1-1/4
15	136374	Lens, Bar Člear	63	19131614	Washer 13/32 x 1 x 14 Ga.
16	121794X	Cover, Access	64	144283	Washer, Serrated Disc 13/32 x 1
17	17490612	Screw, Thdrol 3/8-16 x 3/4	68	17490508	Screw, Thd 5/16-18 x 1/2
18	136373X428		69	153991	Shield, Heat
19	19131312	Washer 13/32 x 13/16 x 12 Ga.	70	137159	Guide, Belt Mid Span
20	74760616	Bolt, Fin Hex 3/8-16 x 1	77	137308	Shield, Front
21	73680600	Nut, Crownlock 3/8-16 Unc	84	142992	Stop, Over Center Mower
22	136670X558	Panel Asm., Side RH	86	74760716	Bolt, Fin Hex 7/16-14 Unc x 1
24	145243X558	Footrest, RH	90	11050600	Washer, Lock External Tooth 3/8
26	17490512	Screw, Thdrol 5/16-18 x 3/4	91	150851	Rail, Frame Lh
28	145244X558	Footrest, LH	92	143485X013	Plate, Silkscreen Dash
29	145349	Bracket, Support Dash	94	100207K	Clip, Fuel Line
30	145052	Saddle, Hydro 1995	95	105531X	Push Nut, Nylon
31	145183	Brace, Support Steering	98	140503	Bracket Skid Chassis
32	141315	Bracket Asm., Frame Pivot Lh	99	140871	Rod By Pass
33	141314	Bracket Asm., Frame Pivot Rh		124236X	Cap By Pass Rod
34	142131	Bracket, Engine Support Rear		17490628	Screw Thdrol 3/8-16 x 1-3/4
35	19111116	Washer 11/32 x 11/16 x 16 Ga.		4497H	Retainer, Spring
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4	103	142273	Lock, By Pass
37	140002X558	Fender, Pnt.		138776	Bolt 5/16-18 Type TT
38	19091216	Washer 9/32 x 3/4 x 16 Ga.	120	19131616	Washer 13/32 x 1 x 16 Ga.
39	136961	Bracket, Axle Front	***	8022J	Plug, Hole
40	142132	Bracket, Support Axle/Engine			-
41	17580408	Screw Tap Tite 1/4-20 x 1/2	NOT	E: All compon	ent dimensions given in U.S. inches
42	72140608	Bolt, Carriage 3/8-16 x 1		1 inch = 25	

# **TRACTOR - - MODEL NUMBER 917.251492**

# **GROUND DRIVE**



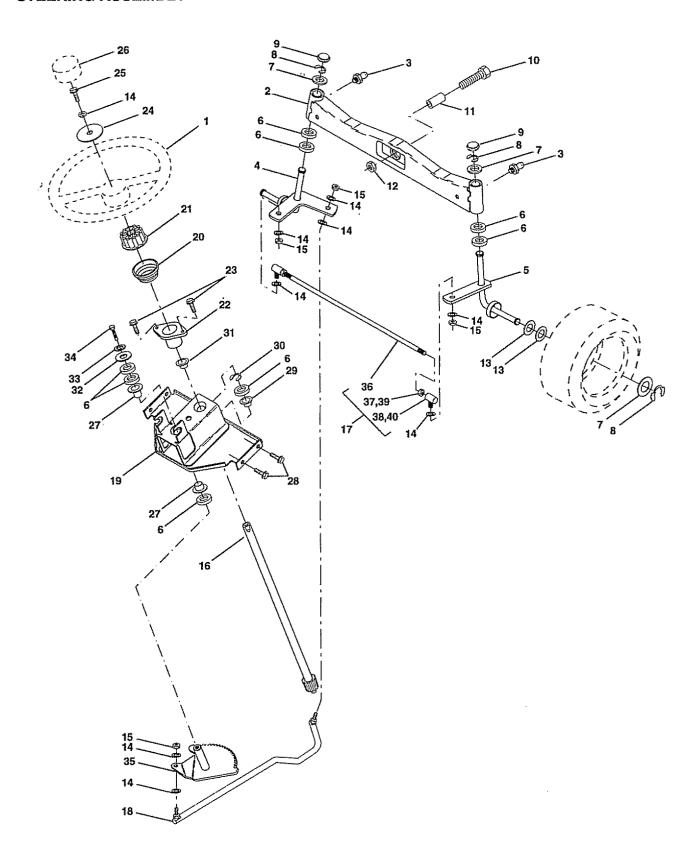
### TRACTOR - - MODEL NUMBER 917.251492

### **GROUND DRIVE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2 3	7070E 7563R	Key 1/4 x 2.5 Washer Thrust Axle Harden	68 69	5142H 123800X	Pin Roll Washer
5	STD541437	Nut Crownlock 3/8-16	70	151146	Console Hydro Fender
6	STD561210	Pin Cotter 1/8 x 3/4	71	151179	Plate Console Shift
7 9	140507	Wheel Hub Asm.	72	STD541431	Locknut Hex W/Washer Insert
15	140080 STD551037	Bolt Hub Washer 13/32 x 13/16 x 16 Ga	73 74	74780548	Bolt Fin Hex 5/16-18 x 3
17	140921	Spring Rod Brake		142432 73800700	Screw Hex Wsh. Hi-Lo 1/4-1/2 Nut Lock Hex 7/16
20	73940800	Nut Hex Jam Toplock 1/2-20	· 76	140481	Bracket Transaxle
22	140498	Shaft Arm Asm	77	74760716	Bolt Fin Hex 7/16-14 x 1
23	106933X	Knob	78	19111212	Washer 11/32 x 3/4 x 12 Ga
28	STD541237	Nut		72110505	Bolt Carriage 5/16-18 x 5/8
29	140494	Brake Rod	80	140484	Bracket Torque RH
30	19131616	Washer 13/32 x 1 x 16 Ga.	81	17490612	Screw Thdrol 3/8-16 x 3/4
32	73220700	Nut Hex 7/16-14	82	150586	Bracket Mount Torque/Fan
33	12000053	Ring E	83	140479	Strap Torque Mid
34 35	124236X 137648	Cap Plunger Rod Parking Brake	84	140490	Spacer
36	149412	Spring , Drive Ground	85	17541020 140462	Screw #10-24 x 1-1/4 Fan 7" Hydro
37	121749X	Washer 25/32 x 1-1/4 x 16 Gauge	86 87	140491	Adapter Fan
38	150035	Nyliner	88	140492	Pulley Idler
39	74321016	Screw Fin #10-24 x 1	89	73680700	Nut Crownlock 7/16-14 UNC
40	5304J	Actuator Interlock Switch	90	140489	Keeper Belt
41	73631000	Nut Lock #10-24	91	17490644	Screw Thdrol 3/8-16 x 2-3/4
42	8883R	Cover Pedal		74760520	Bolt Fin Hex 5/16-18 x 1.25
43	74760412	Bolt Hex Head 1/4-20 x 3/4	93	140502	Link Shift Asm
44	104601X	Bracket Interlock	94	133835	Fastner Christmas Tree
45	73800400	Nut Lock W/Insert 1/4-20		23200528	Screw Set 5/16-18 x 1.5
46 47	145170 138228	Retainer Spring Clutch Rod		141103	Washer Nickel Plated
48	72110614	Bolt Carriage 3/8-16 x 1-3/4 Gr 5		126874X 141004	Bearing Trust Bracket Shift
49	19131413	Washer 13/32 x 7/8 x 13 Ga		17490624	Screw Thdrol 3/8-16 x 1-1/2
50	131494	Pulley Idler Flat		126881X	Washer Compression
51	STD541437	Nut Crownlock 3/8-16 UNC		59285	Washer Beliville
52	139123	Pulley Idler Grooved		73560500	Nut Hex Nylok
53	207J	Washer Hartdened		73350500	Nut Hex Jam 5/16-18
54	138390	Clutch Arm Asm		140480	Bracket Idler
55	105706X	Bearing, Idler		17580408	Screw Tap 1/4-20 x 1/2
56	140218	V-Belt		142918	O-Ring Asm Hydro Gear 70110
58 61	74760724	Bolt Fin Hex 7/16-14 x 1-1/2		154739	Line Fuel Hydro 15" VGT Serv.
64	140488 154752	Pullery Transaxle Shaft Asm Brake Parking Clutch		142917	Cap Asm Vent Hydro Gear 70109
65	67609	Bolt Shoulder		140929 88652	Spring Return Brake Bolt
66	140296	Washer Hardened		150073	Transaxle Hydro
67	19131312	Washer 13/32 x 13/16 x 12 Ga			vent dimancione diven in U.S. inches

### TRACTOR - - MODEL NUMBER 917.251492

### STEERING ASSEMBLY



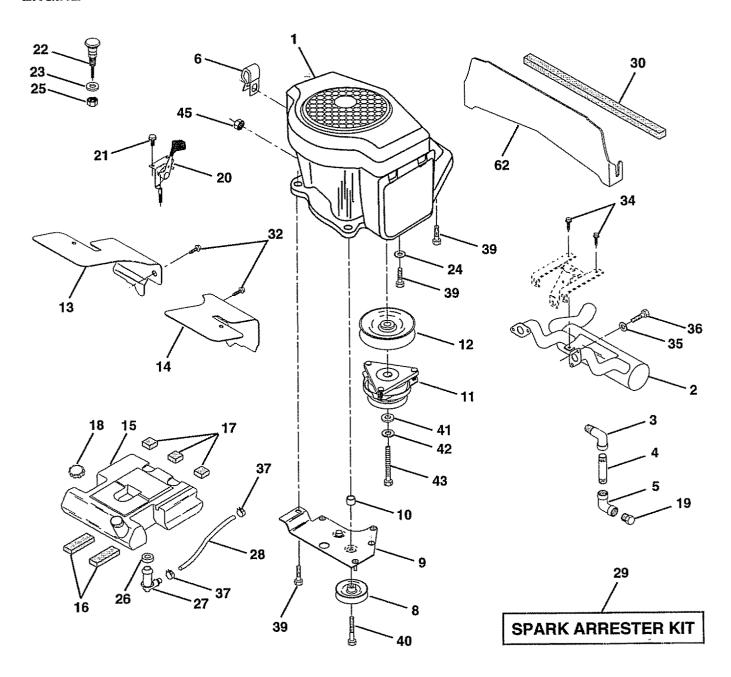
### **TRACTOR - - MODEL NUMBER 917.251492**

### STEERING ASSEMBLY

KEY NO.		DESCRIPTION
14 15 16 17 18 19 20 21	STD541537 145103 137347 137155 146611 145182 100711L	Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm, LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer, Brg. Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hlcl Spr 3/8 Nut, 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
22 23 24	152927 19133808	Bushing, Strg. Blk Screw Washer 13/32 x 2-3/8 x 8 Ga.
25 26 27 28 29	74780616 126805X 3366R 17490612 104239X	Bolt, Fin Hex 3/8-16 x 1 Gr. 5 Cap , Wheel Steering Bearing, Col. Strg. Screw, Thrdrol 3/8-16 x 3/4 Bearing, Flange
30 31 32 33 34 35 36	12000034 138136 19111610 STD551131 74760512 138059	Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hlol Spr 5/16 Bolt, Hex Hd 5/16-18 x 3/4 Gear, Sector Steering Tie Rod
37 38 39 40	73360600 109850X	Jam Nut RH Thread Joint Asm. Ball RH Thread Jam Nut LH Thread Joint Asm. Ball LH Thread

### **TRACTOR - - MODEL NUMBER 917.251492**

### **ENGINE**



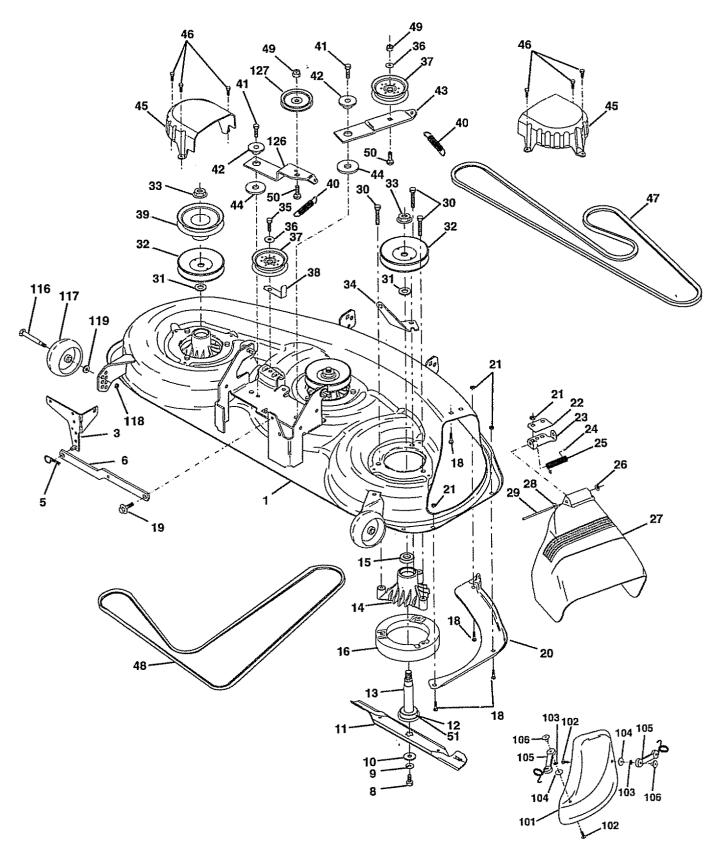
### TRACTOR - - MODEL NUMBER 917.251492

### **ENGINE**

KEY NO.	PART NO.	DESCRIPTION
1	141948	Engine Kohler Model MV18S-58560
2	144110	Muffler Asm Kohler VGT
3 4 5 6 8 9 10 11 23 14 5 6 7 17 15 17 17 17 17 17 17 17 17 17 17 17 17 17	13240300 13280328 13200300 138129 121361X 150828 105432X 137140 136907 154575 154574 151346 109227X 106082X	(Inc. Key No. 34) Elbow Street 3/8 NPT Nipple Pipe 3/8NPT X 3 - 1/2 Elbow STD 90 Degree 3/8 - 18 NPT Clamp Tube Double Engine Pulley V-Idler Keeper Asm Belt Engine Bushing Clutch Electric Pulley Engine VGT Elect Clutch Baffle Air LH Koh VGT Baffle Air RH Koh VGT Tank Fuel Rear 3.50 YT/GT Pad Spacer Pad Spacer
18 19	151296 13290300	Cap Asm Fuel W/Gauge Vented Plug Oil Drain
20 21 22 23 24 25 26 27 28 29 32 34 35 36 37 39 40 41 42 43 45 62	133439 17720410 138672 19132616 STD551237 73920600 3645J 139277 7834R 132920 105037X 17490508 17720408 STD551131 74570512 123487X 17490624 17490652 126197X STD551143 150280 128861 137373	(Order From Engine Manufacturer) Control Throttle Screw Hex Thd Cut 1/4 - 20 X 5/8 Control Choke Washer 13/32 X 1 - 5/8 X 16 Ga Lockwasher Ext Tooth 3/8 Nut Keps 3/8 - 24 UNF Bushing Stem Tank Fuel Fuel Line Spark Arrester Kit Strip Foam Screw Thdrol 5/16 - 18 X 1/2 Screw Thd Cut 1.4 - 20 x 1/2 Washer Lock 5/16 Screw Hex 5/16 - 16 UNC X 3/4 Clamp Hose Screw Thdrol 3/8 - 16 X 1 - 1/2 TT Screw Thdrol 3/8 - 16 X 3 - 1/4 Washer 1-1/2 OD X 15/32 ID X .250 Washer Lock 7/16 Bolt Hex 7/16-20 X 4-1/4 Ga 5 Nut Flange 1/4-20 Starter Nut Shield Heat

### **TRACTOR - - MODEL NUMBER 917.251492**

### **46" MOWER DECK**



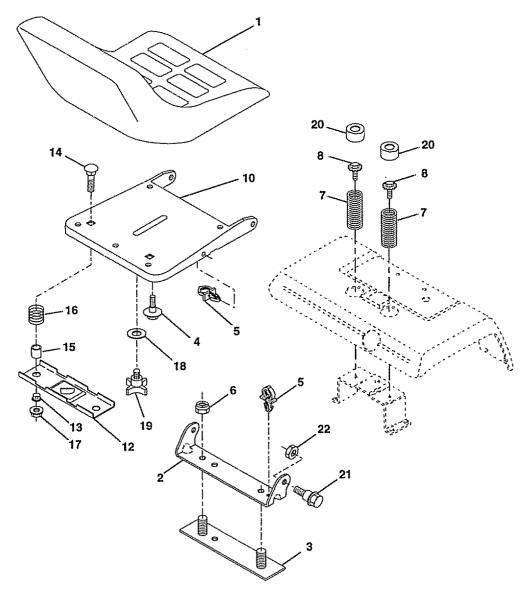
### **TRACTOR - - MODEL NUMBER 917.251492**

### **46" MOWER DECK**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 3 5 6 8 9 10	153125 138457 4939M 130832 850857 STD551137 140296	Deck Asm., Mower 46" Bracket Asm., Sway Bar Retainer Spring Arm, Suspension, Rear (Sway Bar) Bolt, Patched 3/8-24 x 1-1/4 Gr. 8 Washer, Lock Hvy., Unplated 3/8 Washer, Hard Blade, Mower	38 39 40 41 42 43 44	137554 144917 137273 17490620 122052X 144949 133943	Keeper, Belt, Idler Pulley, Idler, Driven Spring, Secondary 44/46/50 Vent Screw, Thdroll 3/8-16 x 1-1/4 Tytt Spacer, Retainer Arm, Idler Secondary Washer, Hardened
11 12 13	152443 129895 137553	Vented Blade, 46" Mower Deck Bearing, Ball, Mandrel #6204 Shaft Asm. w/Lower Bearing (Includes Key No. 12)	49	148763 STD541437	Cover, Mandrel Deck Screw, Thdroll. 1/4-20 x 5/8 V-Belt, Mower, Secondary V-Belt, Mower, Primary Nut, Crownlock 3/8-16 UNC
14 15 16 18 19	137152 110485X 140329 72140505 132827	Housing, Mandrel Bearing, Ball, Mandrel Stripper, Mower Round Bolt, Carriage 5/16-18 x 5/8 Bolt, Hex Head, Shoulder 5/16-18	51 101 102	72110612 153390 145579 71161010 STD551110	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5 Washer Felt Cover, Mulching Screw Washer, Lock #10
20 21 22 23 24	145055 STD541431 134753 131267 105304X	Baffle, Vortex Mower 46" Nut, Crownlock 5/16-18 UNC Stiffiner, Bracket Bracket, Deflector Cap, Sleeve	104 105 106 116	19061216 130758 2029J 137644 133957	Washer Latch Asm. Bagger Nut, Weld Bolt, Shoulder Gauge Wheel, Wide
25 26 27 28	123713X 110452X 145325 19111016	Spring, Torsion, Deflector Nut, Push Shield, Deflector Mower Washer 11/32 x 5/8 x 16 Ga.	118 119 126	73930600 19121414 144948 146763	Nut, Centerlock 3/8-16 UNC Washer 3/8 x 7/8 x 14 Ga. Arm, Idler, Primary Deck 46" Pulley, Idler, V-Groove Dim. 4.25 Mandrel Asm 44"/50" Service
29 30 31 32 33 34	131491 138776 129963 153531 137266 144945	Rod, Hinge Screw, Hex Head, Thdroll Washer, Spacer Mower Vented Pulley, Mandrel Nut, Flg. Top Lock Cntr. 9/16 Anchor, Spring Deck 46"		143651	(Includes Key Nos. 8-10, 12-15, 31 and 33) Deck Complete (Std. Deck-Order separately mulcher plate and gauge wheel components Key Nos. 101-
35 36 37	174945 17490628 STD551037 131494	Screw, Thdroll 3/8-16 x 1-3/4 Tytt Washer 13/32 x 13/16 x 16 Ga. Pulley, Idler, Flat	NO.	TE: All compor 1 inch = 25	106 and 116-118) nent dimensions given in U.S. inches

### TRACTOR - - MODEL NUMBER 917.251492

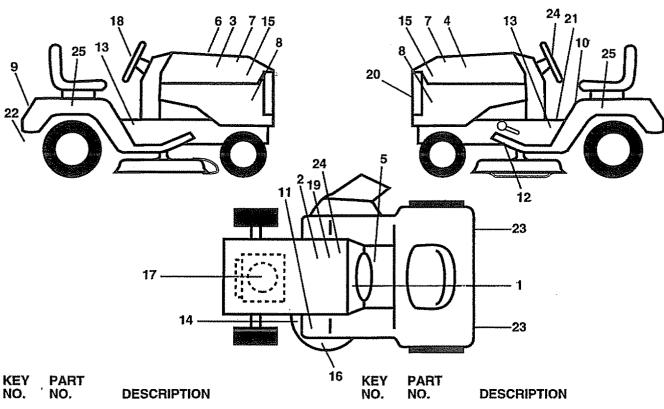
### **SEAT ASSEMBLY**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 10 12 13 14	140124 140551 140675 127018X 145006 STD541437 124181X 150176 140552 121246X 121248X 72050411	Seat Bracket, Pivot Seat Strap, Fender Bolt, Shoulder 5/16-18 X .62 Clip, Push In Hinged Nut, Crownlock 3/8-16 Unc Spring, Seat Cprsn 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 <b>NO</b> 1	121249X 123740X 123976X 19171912 120068X 124238X 153236 STD541431 TE: All compo 1 inch = 28	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

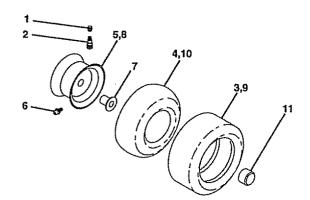
### TRACTOR - - MODEL NUMBER 917.251492

### **DECALS**



NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	138955	Decal, Operating Instruction	17	52-113-54	Decal, Koh 18.5 Mag Sears
2	149516	Decal, Battery DNGR/PSN/Acme	18	146710	Decal, Insert Strg
3	146705	Decal, Hood, Craftsman, RH	19	138047	Decal, Battery
4	146706	Decal, Hood, Craftsman, LH	20	151448	Decal, Grille GT IPC
5	140837	Decal, Brake Parking Saddle	21	142336	Decal, SDL Cold Start
6	133644	Decal, Maintenance	22	142342	Decal, Drawbar CNTRL
7	138048	Decal, Side Panel	23	106202X	Reflector, Taillight
8	151441	Decal, Ins. Hood	24	150333	Decal, Cap Cosmr Help Line
9	146709	Decal, Fender, Craftsman	25	149918	Decal, Fend Auto Trans Srs Gold
10	137537	Decal, Caution		138311	Decal, Handle LFT Hieght Adj. (Lift
11	4900J	Decal, Clutch/Brake			Handle)
12	146790	Decal, V-Belt Drive Schematic	* *	145245	Pad Footrest
13	151401	Decal, Chassis, Hydro 46"		145247	Fastener Pop-in Footrest
14	139346	Decal, V-Belt Schematic		154342	Manual, Owner's (Eng)
15	142243	Decal, Hood Insert Hd GT		154343	Manual, Owner's (Span)
16	151302	Decal, Deck Mower EZ3 Polo			

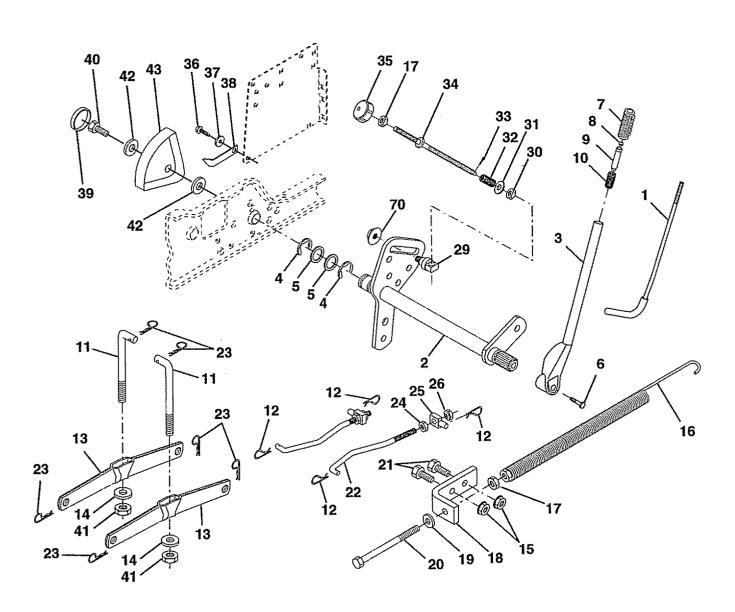
### **WHEELS & TIRES**



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2 3	65139 106230X	Stem, Valve
	8134H	Tire, Front
4 5 6	106228X427	Tube, Front (Service Item Only) Rim Assembly, Front
9	6856M	
9		Fitting, Grease
7	9040H	Bearing, Flange (Front Wheel Only)
8	106277X427	Rim Assembly, Rear
9	105588X	Tire, Rear
10	7154J	Tube, Rear
11	104757X	Cap Hub Axle BLK 1.50 x 1.00
	278H	Fitting Grease
	144334	Sealant, Tire ( 10 oz. Tube)

### TRACTOR - - MODEL NUMBER 917.251492

### LIFT ASSEMBLY

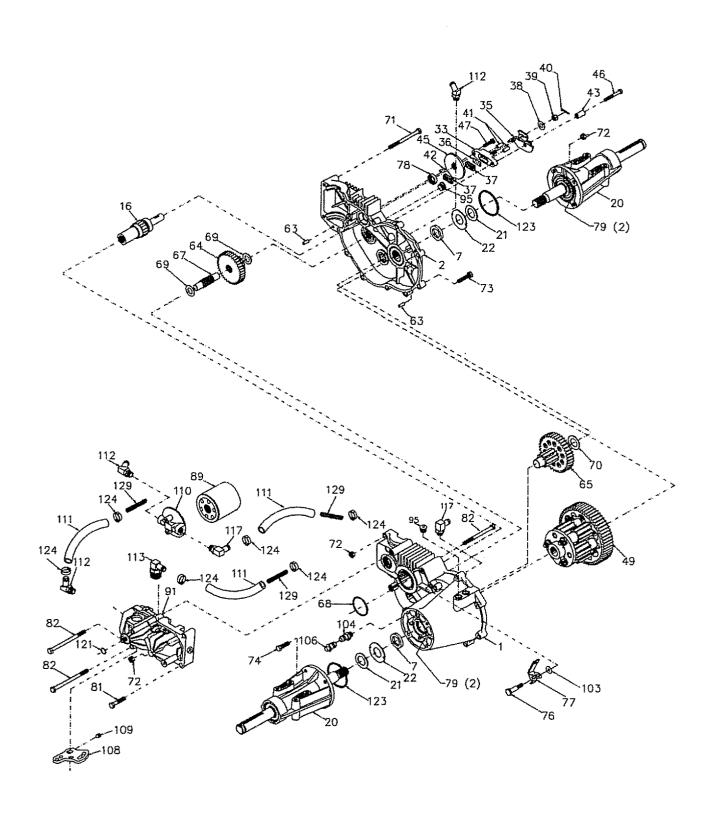


### TRACTOR - - MODEL NUMBER 917.251492

### LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2	121006X 145542	Rod Asm., Lever Shaft Asm., Lift Vgt
2 3	121002X	Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016 74780624	Washer 29/32 x 1-1/4 x 16 Ga. Bolt, Fin Hex 3/8-16 x 1-1/2
6 7	125631X	Grip, Handle Fluted
8	122365X	Button, Plunger
9	122364X	Plunger, Lever Lift
10	2876H	Spring 2-1/8"
11 12	146704 3146R	Link Lift Retainer, Spring
13	139868	Arm, Suspension Vgt
14	140302	Bearing, Pvt. Lift Spherical
15	STD541437	Nut, Crownlock 3/8-16 Unc
16 17	674A247	Spring Asm., Assist Lift
18	73350600 143363	Nut, Hex Jam 3/8-16 Unc Bracket, Spring Assist
19	STD551037	Washer 13/32 x 13/16 x 16 Ga.
20	5328J	Bolt, Adjust Spring Assist
21	STD523710	Bolt, Fin Hex 3/8-16 x 1
22 23	127218 4939M	Link, Front Retainer, Spring
24	73350800	Nut, Jam Hex 1/2-13 Unc
25	130171	Trunnion
26	73800800	Nut, Lock W/Wsh 1/2-13 Unc
29	150233	Trunnion Infin. Height
30 31	110807X 19131016	Nut, Special Washer 13/32 x 5/8 x 16 Ga.
32	137150	Spring, Compression Inf Hgt
33	76020308	Pin, Cotter 3/32 x 1/2
34	137167	Rod, Adj Lift
35	138057	Knob, Inf 3/8-16 Unc Screw, Thdrol 3/8-16 x 3/4
36 37	17490612 120529X	Washer, Nylon
38	123933X505	Pointer, Pnt Height Indicator
39	123935X	Plug, Hole
40	17490512	Screw Thdrol 5/16-18 x 3/4
41 42		Nut, Crownlock 3/8-24 Washer 11/32 x 1-1/2 x 10 Ga.
43	19112410 123934X	Scale, Indicator Height
70	145212	Nut, Hex Flange Lock

# TRACTOR - - MODEL NUMBER 917.251492 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 218-3010L

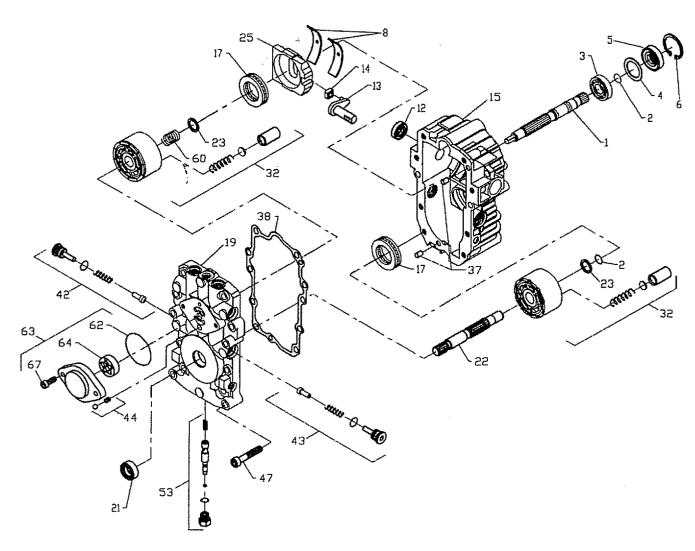


# TRACTOR - - MODEL NUMBER 917.251492 HYDRO GEAR TRANSAXLE - - MODEL NUMBER 218-3010L

	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	142874	Assembly, Housing, LH	72	153767	Locknut, Hex 5/16-18
2	142875	Assembly, Housing, RH	73	142904	Bolt, Hex 5/16-18 x 1-1/2
7	153765	Oil Seal .984 x 1.5 x .25	74	142905	Hex Cap Screw 5/16-18 x 1
16	142876	Brake Shaft Assembly	76	142907	Shoulder Bolt
20	142877	Axle Mounting Hom Assembly	77	142908	Freewheel Actuating Arm
	142878	Washer 1.0 x 1.63 x .08	78	142909	Oil Seal .625 x 1.0 x .25
	142879	Washer 1.0 x 2.06 x .09	79	153768	Grease (10 oz. Tube)
33	142929		81	142910	Bolt, Hex 5/16-18 x 1-3/4
35	142880	Brake Arm	82	142911	Bolt 5/16-18 x 4-1/2
36	142882	Puck Plate	89	142912	Filter, Spin On
37	142883	Brake Puck	91	153769	Pump, BDU-10L-122
38	142884	Washer 7/8 O.D. x 7/16 x .060		142914	Plug, Straight Thread
39	142885	Nut, Castle 5/16-24		153770	60° 7/18 SAE x 5/16 Fitting
40	142886	Cotter Pin		142916	Washer
41	142887	Brake Actuating Pin		142917	Vent Cap Assembly
42	142888	Hi Pro Key		142918 142919	Fitting O-Ring Assembly Control Arm
43 45	142889	Spacer Brake Disc		142919	Set Screw
45 46	142890 142891	Bolt 1/4-20 x 1-1/2		142921	Filter Head
47	142892	Bolt 1/4-20 x 1		150820	Hose 1/2"
49	153766	Differential Assembly	112	150823	Fitting, 1/2" Beaded 90° 7/8 SAE
63	142894	Dowel Pin		150821	Fitting, 1/2" Beaded 60° 9/16
64	150818	Reduction Gear,		150822	Fitting, 1/2" Beaded 90° 9/16
O-T	100010	14 Teeth to 38 Teeth		150824	O Ring
65	142897	Final Drive Pinion Assembly		150825	Pinch Clamp
67	142898	Jackshaft		153771	Spring, Long
68	142899	O-Ring			Trues mana
69	142900	Washer 5/8 X 1-5/32			
70	142901	Washer 7/8 X 1-1/2	NOT	E: All compone	ent dimensions given in U.S. inches
71	142902	Bolt, Hex 5/16-18 x 3.5		1 inch = 25.	

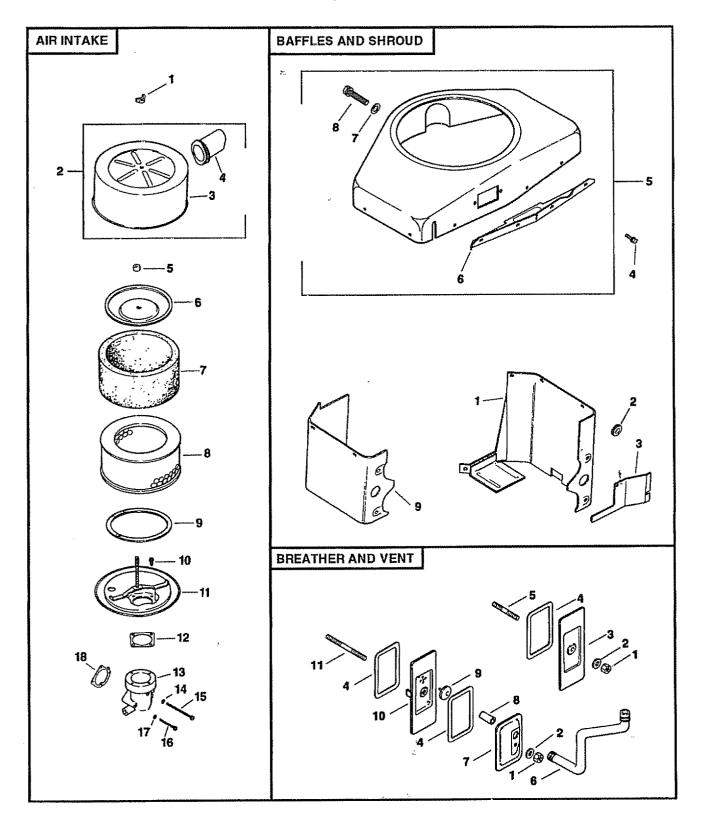
### TRACTOR - - MODEL NUMBER 917.251492

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



	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
12345682345791 12345791 1222	144569 122716X 122745X 122715X 122700X 122699X 122767X 122717X 122748X 122748X 122749X 144571 122770X 153801 122722X 144573	Shaft, Pump Ring, Retaining Bearing, Ball Spacer Seal, Lip Ring, Retaining Bearing, Cradle Seal, Lip Arm, Trunnion Guide, Slot Housing Kit, Transmission Bearing, Thrust, Ball Center Section Kit Seal, Lip Shaft, Motor	25 32 37 38 42 43 44 47 53 60 62 63 64	127148X 142938 122786X 122718X 144578 144579 122752X 127153X 142977 144581 144582 144583 144584	Swashplate, Variable Block Assembly Pin, Stainless, Headless Gasket, Center Section Check Valve Kit Check Valve Kit Charge Relief Kit Screw, Socket Head, Cap Bypass Valve Kit Block Spring O-Ring Charge Pump Kit Gerotor Assembly Screw, Socket Head, Cap
23	142978	Washer, Block Thrust		153769	Pump Assembly, Complete

### **TRACTOR - - MODEL NUMBER 917.251492**

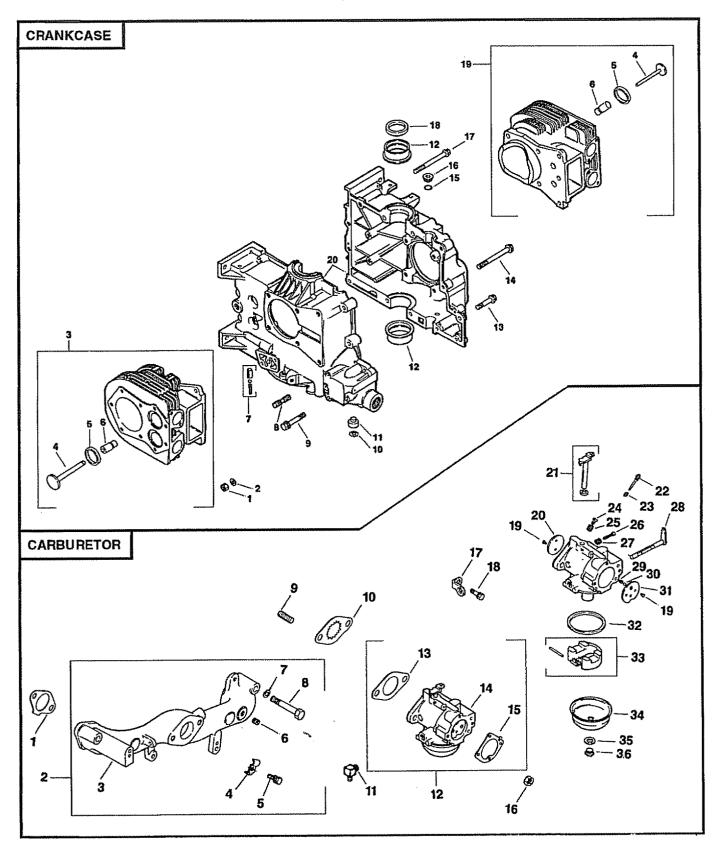


### **TRACTOR - - MODEL NUMBER 917.251492**

### **KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560**

AIR	INTAKE		BAFFLES & SHROUD		
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 3 4 5 6 7 8 9 10 11 12	X-276-7 52 755 83 52 096 35 52 123 21 231032 52 082 04 45 083 01 45 083 02 237423 X-67-98 52 201 06 277093	Wing Nut 1/4-20 Kit, Cover and Tube (Includes Key Numbers 3 and 4) Cover, Air Cleaner Tube, Air Intake Seal, Element Cover Cover, Air Cleaner Element Pre-Cleaner Element Seal, Air Cleaner Cover Screw, Hex Washer Head #10-32 x 9/16 (4) Base, Air Cleaner Gasket, Air Cleaner (2)	4 5 6 7 8 9	52 063 41 52 313 05 52 063 42 X-67-83 52 755 70 52 217 01 52 468 16 52 086 11 52 124 23 ILLUSTRATED	Baffle, #2 Cylinder Head Grommet (2) Baffle, Fuel Pump Screw, Hex Washer Head 1/4-20 x 7/16 (14) Kit, Blower Housing (Includes Key Numbers 6 thru 8) Support, Upper Housing Washer, Flat (2) Screw 1/4-20 x 5/8 (6) Baffle, #1 Cylinder Head  Decal, Horsepower (3)
13 14 15	52 054 39 X-25-79 X-50-37	Elbow, Air Intake Washer, Plain #10 Screw, Slotted Pan Head #10-32 x 2-1/4	BRE	ATHER & VEN	
16 17	X-50-57 X-22-9	Screw, Slotted Pan Head #10-32 x 1-3/4 (2) Washer, Lock, Internal Tooth	KEY NO.	PART NO.	DESCRIPTION
18	25 041 06 ILLUSTRATED 25 113 15 52 113 30	#10 (2) Gasket, Air Cleaner Elbow	1 2 3 4 5 6 7 8 9 10 11		Nut, Hex 1/4-20 (2) Washer, Plain 1/4 (2) Cover, #2 Cylinder Valve Gasket, Cover (3) Stud, #2 Cylinder Valve Cover 1/4-20 x 2-1/4 Hose, Breather Cover, #1 Upper Cylinder Valve Seal, Breather Valve, Umbrella Cover, #1 Lower Cylinder Valve Stud, #1 Cylinder Valve Cover 1/4-20 x 3-1/4

TRACTOR - - MODEL NUMBER 917.251492 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560

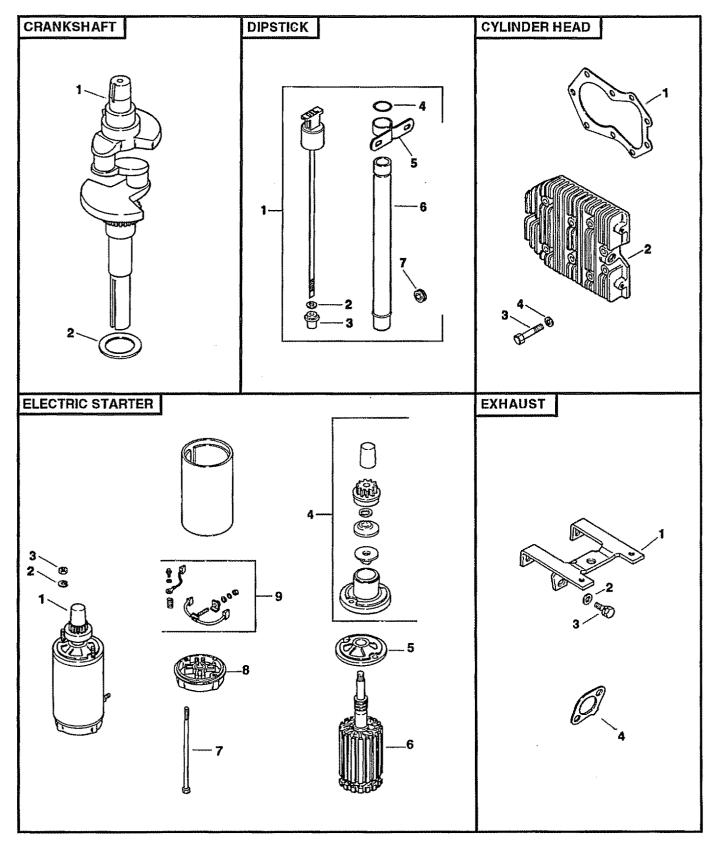


### TRACTOR - - MODEL NUMBER 917.251492

### **KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58560**

CRANKCASE		CARBURETOR		
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION	
1 X-82-2 2 52 468 12 3 82 755 16	Nut, Hex 5/16-18 (12) Washer, Flat 5/16 (12) Kit, #1 Cylinder Barrel	1 52 041 09 2 52 755 91	Gasket, Intake (2) Kit, Manifold (Includes Key Numbers 3 thru 8)	
4 52 016 05 5 52 031 01 6 52 316 06 7 52 755 50	(Includes Key Numbers 4 thru 6) Valve, Exhaust Insert, Valve Seat (2) Guide, Valve (2) Kit, Oil Relief	3 52 164 15 4 X-21-1 5 X-6-29 6 X-75-23	Manifold, Intake Washer, Lock 5/16 (4) Screw, Hex Cap 5/16-18 x 2 (4) Plug, Hex, Countersunk 1/8 N.P.T.F.	
8 52 072 12 9 25 086 12	Step Stud 5/16-18 x 3/4, 3/8-16 x 5/8, 2" Long (12) Screw, Hex Flange 5/16-18 x 2 (2)	7 235778 8 X-67-97	Clamp, Cable (2) Screw, Hex Washer Head #10-24 x 3/8 (2)	
10 X-269-43 11 52 078 05 12 52 030 10 52 030 11 52 030 12	Ring, Retaining Shaft, Governor Bearing, Sleeve, Standard (2) Bearing, Sleeve .010" (2) Bearing, Sleeve .020" (2)	9 41 072 19 10 52 063 40 11 25 155 02 12 52 853 25	Stud 5/16-18 x 1 (2) Baffle, Carburetor Connector, Hose Kit, Carburetor with Gasket (Includes Key Numbers 12 thru 14)	
13 25 086 10	Screw, Hex Flange 5/16-18 x 1-1/2 (3)	13 271030 14 52 053 54	Gasket, Carburetor (2) Carburetor Assembly (Information	
14 25 086 13 15 52 141 02	Screw, Hex Flange 3/8-16 x 3-5/8 (2) O-Ring	15 25 041 06	Only - Not Available Separately) (Includes Key Numbers 18 thru 35) Gasket, Air Cleaner	
16 52 139 08 17 25 086 11	Plug Screw, Hex Flange	16 X-77-2 17 232867	Nut 5/16 (2) Strap, Lifting	
18 52 032 10 19 82 755 17	5/16-18 x 3-1/2 (8) Seal, Oil, Front Kit #2 Cylinder Barrel	18 X-67-62 19 25 086 27	Screw, Hex Washer Head 1/4-20 x 3/4 Screw, Throttle and Choke Plate (4)	
20	Seal, Oil, Front Kit, #2 Cylinder Barrel (Includes Key Numbers 4 thru 6) Crankcase (Service with Short Block, Part Number 82 522 30)	25 146 03 21 52 144 24 22 25 368 01 23 25 089 02 24 25 086 26 25 25 089 04 26 25 368 03 27 25 089 02 28 52 090 13 29 25 089 03 30 25 194 01 31 25 146 02 32 25 041 04 33 25 757 09 34 25 104 01 35 25 041 03 36 25 100 05	Plate, Choke Shaft, Throttle with Lever and Seal Needle, Idle Fuel Adjust Spring, Idle, Fuel Screw, Idle Speed Adjust Spring, Idle Speed Needle, Main Fuel Spring, Main Fuel Lever, Choke Spring, Choke, Friction Ball, Choke, Friction Plate, Throttle Gasket, Bowl Kit, Float Bowl, Fuel Gasket, Bowl Retainer Screw Screw, Bowl Retainer	
		25 757 11 25 757 23	Kit, Carburetor Repair Kit, Bowl Baffle	

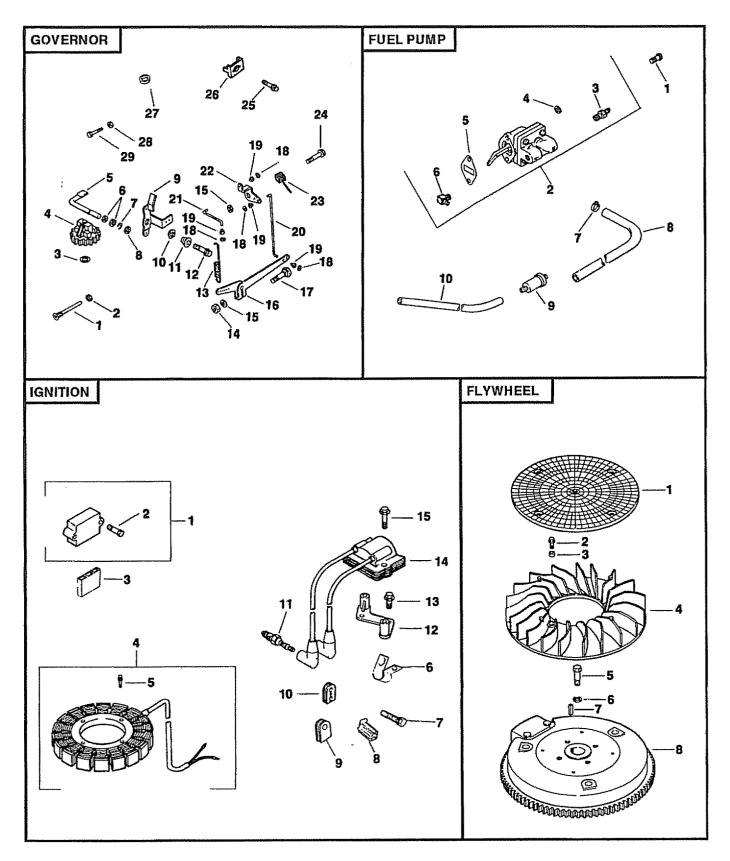
### **TRACTOR - - MODEL NUMBER 917.251492**



### TRACTOR - - MODEL NUMBER 917.251492

CRANKSHAFT				ELECTRIC STARTER		
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION	
1 2 DIPS	52 014 93 52 468 03 52 468 04 52 468 05	Crankshaft Washer, Thrust .119/.122 (A.R.) Washer, Thrust .128/.131 Washer, Thrust .137/.140 (A.R.)	3 4	52 098 12 X-20-1 X-81-1 82 755 26 52 081 07 52 170 05 52 211 01	Starter Assembly (Includes Key Numbers 4 thru 9) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive Cap, Drive End Armature Bolt, Thru (2) Cap, Commutator End Kit, Brush	
	PART NO.	DESCRIPTION	7 8 9	52 211 01 52 227 10 82 755 28		
1 2 3 4 5 6 7	52 038 14 X-25-44 52 032 14 41 153 01 52 126 11	Dipstick Assembly (Includes Key Numbers 2 and 3) Washer, Plain 5/16 Seal, Rubber O-Ring Bracket, Oil Tube Support Tube, Oil Fill 11-7/8 Plug, Hex, Countersunk 3/4 N.P.T.F.	#A +A	ILLUSTRATED 25 450 03 AUST	) Tag, Caution	
	52 123 20 47 139 01		KEY NO.	PART NO.	DESCRIPTION	
CYLINDER HEAD			1 2 3 4	52 126 12 X-25-72 52 086 11	Bracket Washer, Plain (3) Screw 1/4-20 x 5/8 (3)	
KEY NO.	PART NO.	DESCRIPTION	•		Gasket, Exhaust (2)	
1 2 3 4	52 041 20 52 015 08 220534 41 086 02	Gasket, Head (2) Cylinder Head (2) Washer, Plain 5/16 (18) Screw, Hex Head 5/16-18 x 1-1/2 (18)	<b>NOTE:</b> All component dimensions given in U.S. inches 1 inch = 25.4 mm			

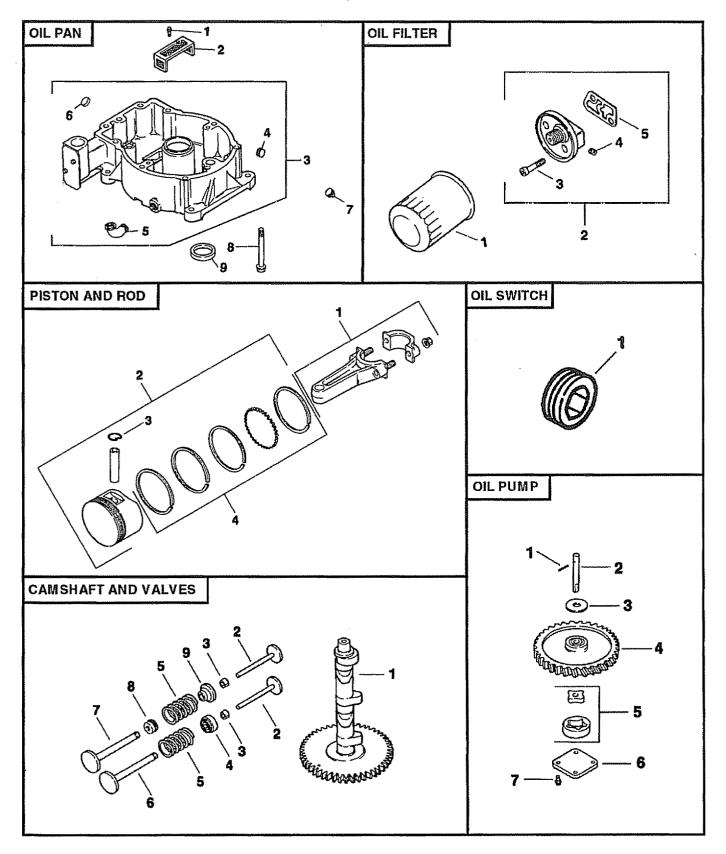
### TRACTOR - - MODEL NUMBER 917.251492



### **TRACTOR - - MODEL NUMBER 917.251492**

FLYWHEEL		FUEL PUMP	FUEL PUMP		
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION		
1 25 162 01 2 25 086 21	Screen, Grass Screw, Hex Washer Head	1 47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)		
3 25 112 04	1/4-20 x 5/8 (4)	2 52 559 01	Pump, Fuel Assembly (Includes Key Numbers 3 thru 6)		
4 25 157 01	Spacer (4) Fan Screw, Hex Machine 3/8-24 x 1-1/4	3 X-380-1 4 X-25-63	Connector, Straight		
5 25 086 24 6 52 468 15	Washer, Plain	4 X-25-63 5 25 041 09	Washer, Plain 1/4 (2) Gasket, Fuel Pump		
7 X-286-17	Key, Square 3/16 x 7/8	6 25 155 02	Connector, Hose		
8 52 025 36	Flywheel	7 X-426-9 8 52 353 18	Clamp, Hose (4) Line, Fuel, 8"		
		9 25 050 03	Filter, Fuel		
GOVERNOR		10 15 353 04	Line, Fuel, 11-1/2*		
KEY PART	DESCRIPTION	IGNITION	ICAUTION		
NO. NO.		IGNITION			
1 231355 2 X-25-12 3 237022	Pín, Governor Stop Washer, Plain 1/4 Washer, Thrust	KEY PART NO. NO.	DESCRIPTION		
4 A-235743-S		1 25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)		
5 52 078 04 6 X-25-102	Washer, Plain 1/4 (2)	2 X-132-5	Screw, Hex Cap 1/4-20 x 5/8 (2)		
7 X-269 <i>-</i> 28	Retainer, Governor	3 236602	Connector, 3 Contact		
8 X-25-72 9 52 090 23	Washer, Plain 1/4 (2)	4 237878 5 X-67-51	Kit, Stator (Includes Key Number 5) Screw, Hex Cap #10-24 x 3/4 (2)		
10 277341	Lever, Speed Control Washer, Tension	6 210281	Clip (2)		
11 52 158 07	Bushing, Throttle Control Lever	7 X-67-64	Screw, Hex Washer Head		
12 25 086 15	Screw, Hex Washer Head 1/4-20 x 1	8 41 155 03	#10-32 x 7/16 Connector, 2 Contact		
13 52 089 07	Spring, Governor	9 220297	Grommet, Rubber		
14 X-81-1	Nut, Hex 1/4-20	10 52 313 02	Grommet		
15 X-25-63	Washer, Plain 1/4	11 52 132 02 12 52 126 08	Spark Plug (2) Bracket, Module		
16 52 186 09 17 52 211 04	Arm, Governor Screw, Round Head, Square Neck	13 25 086 15	Screw, Hex Washer Head		
	1/4-20 x 1		1/4-20 x 1 (2)		
18 25 141 03 19 25 158 08	Ring, Retaining (4)	14 52 584 02 15 25 086 16	Module, Ignition Screw, Hex Washer Head		
20 52 079 07	Bushing, Linkage Retaining (4) Linkage, Governor	15 25 000 10	1/4-20 x 7/8 (2)		
21 52 079 06	Linkage, Throttle				
22 52 090 14	Lever, Throttle	NOT ILLUSTRA	TED Lead, Violet, Rectifier-Regulator		
23 52 089 08 24 25 086 21	Spring, Torsion Screw, Hex Washer Head	47 518 33	(11", 14 Gauge, Uninsulated Push		
	1/4-20 x 5/8		On Tab Terminals)		
25 X-67-97	Screw, Hex Washer Head	52 518 19	Lead, White, Module To Connector (19-1/2", 14 Gauge, Insulated Push		
26 235778	#10-24 x 3/8 (3) Clamp, Cable (3)		On Tab, Uninsulated Push On Tab		
27 25 431 01	Bushing, Speed Control Lever		Terminals)		
28 X-70-3	Nut, Hex #10-32 Screw, Hex Head #10-32 x 7/8	MOTE: All com	nonant dimancione divan in ITS inches		
29 52 086 05	ociew, nex nead #10-32 x //o	NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm			

### TRACTOR - - MODEL NUMBER 917.251492



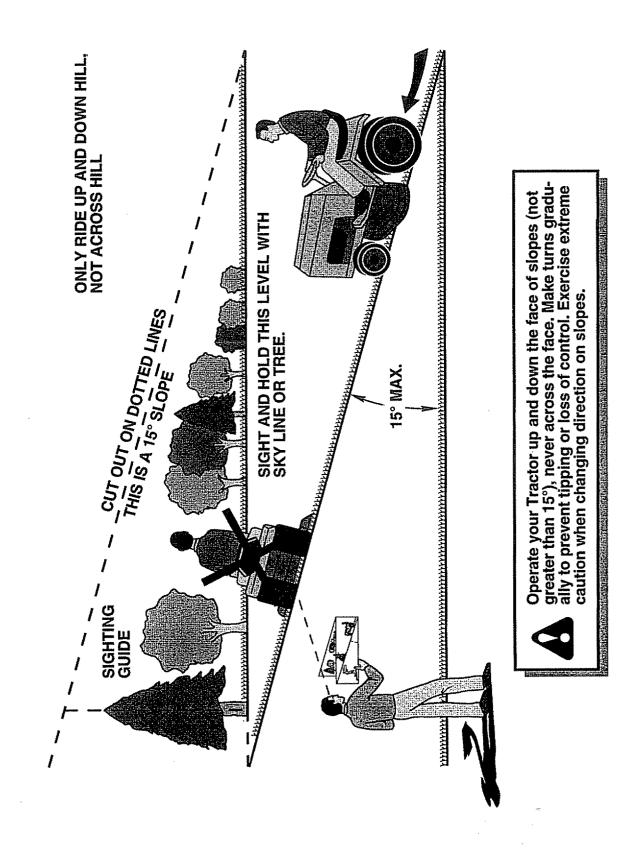
### **TRACTOR - - MODEL NUMBER 917.251492**

OIL PAN				LOW OIL PRESSURE SWITCH			
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION		
1	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (2)	1	X-75-23	Plug, Pipe 1/8 N.P.T.F.		
2 3 4	52 050 03 52 199 14 X-702-14	Filter, Oil Pickup Oil Pan (Includes Key #4 thru 6) Plug, Cup 1-1/16	CAMSHAFT & VALVES				
5. 6	52 054 07 X-75-38	Elbow, Street Plug, Hex, Countersunk 1/4 N.P.T.F.		/ PART NO.	DESCRIPTION		
7 8	X-75-10 52 086 12	Plug, Square Head 3/8 N.P.T.F. (2) Screw, Hex Washer Head	2	52 012 09 52 019 03	* Camshaft * Tappet (4)		
9	52 032 10	5/16-18 x 1-1/4 (9) Seal, Oil, Rear	4 5	41 755 10 52 413 01 25 089 01	Kit, Retainer (4) Rotator, Exhaust Valve (2) Spring, Valve (4) Valve, Exhaust (2)		
OIL FILTER			7	52 017 08	Valve, Intake (2)		
	PART NO.	DESCRIPTION	9 *		Seal, İntake Valve Stem (2) Retainer, Intake Valve (2) 5. 24082000 use: Camshaft		
1 2	52 050 02 82 755 23	Oil Filter Kit, Oil Filter Adaptor (Includes Key Numbers 2 thrus 5)		52 019 02	Tappet		
3	X-55-15	(Includes Key Numbers 3 thru 5) Screw, Hex Socket Head 5/16-18 x 1-1/4 (2)	OIL PUMP				
4	X-75-23	Plug, Hex, Countersunk		PART NO.	DESCRIPTION		
5	52 041 16	Gasket, Oil Filter	1	X-280-25	Pin, Roll		
PIST	ON & ROD		2 3	52 144 05 52 422 01	Shaft, Oil Pump Spacer, Shim (As Required, Maximum of 2)		
	PART NO. 52 067 67 52 067 68	Connecting Rod, Standard (2) Connecting Rod .010" (2)	5 6	52 043 05 52 393 09 52 096 03 X-67-64	Gear, Oil Pump Rotor Set Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4)		
2	52 874 11 52 874 12 52 874 13	Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2)	NOT	NOT ILLUSTRATED			
3	52 874 14 52 874 15 230004	Piston with Ring Set .010" (2) Piston with Ring Set .020" (2) Piston with Ring Set .030" (2) Retainer, Piston Pin (4)		82 522 30 52 755 94	Short Block Gasket Set		
4	52 108 09 52 108 10 52 108 11	Ring Set, Standard and .003" (2) Ring Set .010" (2) Ring Set .020" (2)		RPM Settings	: Low Speed: 1150-1650 High Speed: 3200-3400		
	52 108 12	Ring Set .030" (2)	<b>NOTE:</b> All component dimensions given in U.S. inches 1 inch = 25.4 mm				

## **SERVICE NOTES**

# **SERVICE NOTES**

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



# SEARS

### OWNER'S MANUAL

MODEL NO. 917.251492

### IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

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

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

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

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

1-800-659-5917

# CRAFTSMAN®

# 18.5 HP TWIN CYLINDER ELECTRIC START 46" MOWER HYDROSTATIC (AUTOMATIC) GARDEN TRACTOR

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

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

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

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

### WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 917.251492
- ENGINE MODEL NO. MV18S-58560
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we self.

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