SEARS

# 

MODEL NUMBER 917.255980 OWNER'S MANUAL

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

Caution:
Read and Follow
all Safety Rules
and Instructions
Before Operating
This Equipment





### **SAFETY RULES**

### Safe Operation Practices for Ride-On Mowers



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

#### I. GENERAL OPERATION

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

#### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

#### III. CHILDREN

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

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

#### IV. SERVICE

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



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



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs. **CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

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

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

MODEL NUMBER	917.255980
SERIAL NUMBER	
DATEOFPUR	CHASE
l v	ND SERIAL NUMBERS WILL BE FOUND UNDER THE SEAT.
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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 unit.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

#### PRODUCT SPECIFICATIONS

I ITODOO! O! EO!	IOMIONO
HORSEPOWER:	18.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .025")	CHAMPIONRV15YC
VALVE CLEARANCE:	INTAKE: .003"006" EXHAUST: .016"019"
GROUND SPEED (MPH):	Forward  1st 0.75 2nd 1.50 3rd 2.50 4th 1.50 5th 3.50 6th 5.75 Reverse 2.25
TRANSAXLE OIL CAPACITY AND TYPE:	4 QUARTS SAE 30 API-SG
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 15 AMPS HEADLIGHTS
BLADE BOLT TORQUE:	30-35 FT. LBS.

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

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

#### LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

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

This Warranty does not cover:

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

#### **LIMITED 90 DAY WARRANTY ON BATTERY**

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

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

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

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

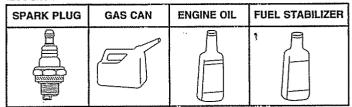
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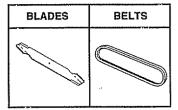
# **ACCESSORIES AND ATTACHMENTS**

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

#### ENGINE



#### 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.

**BAGGER** lets you collect grass clippings and leaves for a healthier, neater looking lawn. Two Permanex containers hold 30-gallon plastic bags.

BUMPER protects front end of tractor from damage.

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

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

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).

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

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

MULCHING KIT, once installed, lets you mulch, discharge or bag clippings (bagger optional) without changing blades. For models not equipped as 3-in-1 Convertible mowers.

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

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.

SNOW BLADE for snow removal only. 14-inch high, 42-inch wide blade clears 38-inch path when angled left or right. Raises, lowers with side lever. Adjustable skids; replaceable, reversible scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

**SNOWTHROWER** has 40-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains 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 deicers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER cultivates and prepares soil in one operation. Uses PTO from tractor; 12 counter-rotating blades. Breaks ground with upper-cut action, then deflects and retills it into a soft, aerated soil. Chain-drive transmission. Tills 21-inch path, 6-inches deep. (Use chains and wheel weights.)

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

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

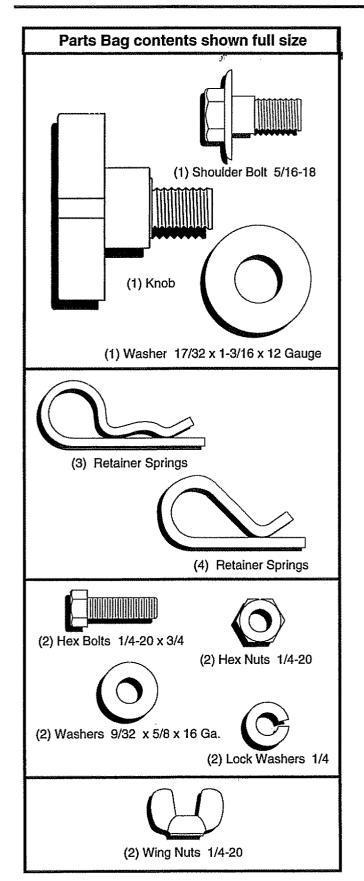
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered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

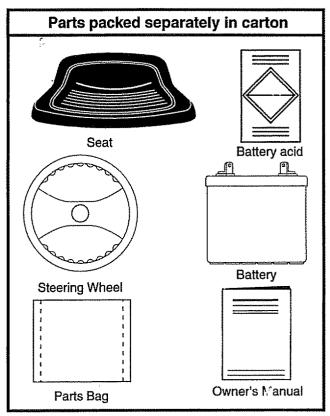
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

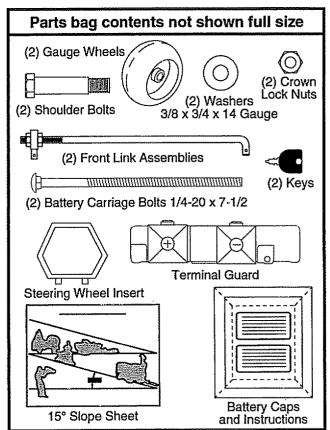
**WEIGHT BRACKET** for drawbar for snow removal applications. Uses (1) 55 lb. weight.

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**

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

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.
- Check for any additional loose parts or cartons and remove.

### BEFORE ROLLING TRACTOR OFF SKID

### **ATTACH STEERING WHEEL (See Fig. 1)**

- Remove hex bolt, lock washer and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- 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 UNIT IS TO ROLL OFF SKID.

### TO ROLL TRACTOR OFF SKID (See Fig. 2)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll unit backwards off skid.

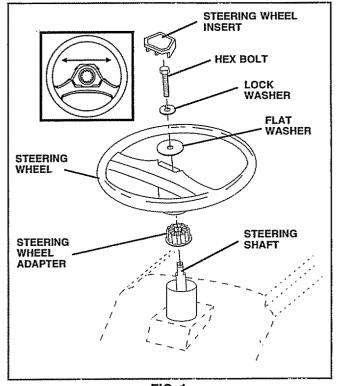


FIG. 1

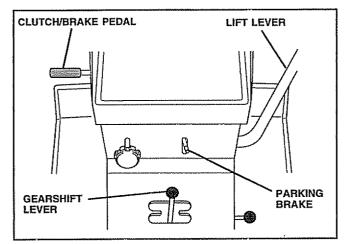


FIG. 2

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

#### PREPARE BATTERY (See Fig. 3)

CAUTION: Wear eye and face shield.



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

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

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

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

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

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

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

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

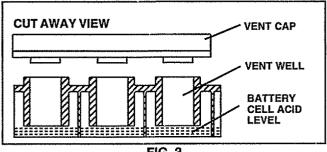


FIG. 3

### INSTALL SEAT (See Fig. 4)

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
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

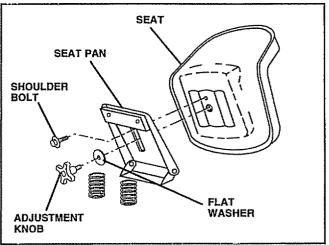


FIG. 4

#### **CHECK TIRE PRESSURE**

The tires on your unit 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.

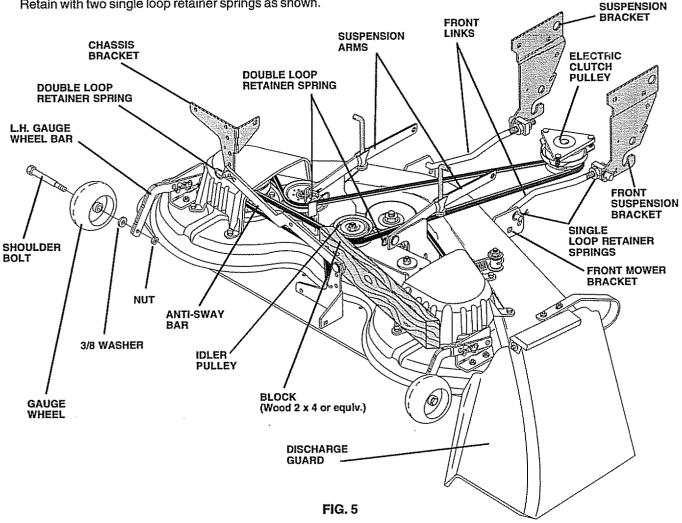
# INSTALL MOWER AND DRIVE BELT (See Figs. 5 and 8)

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

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

- Carefully remove block from behind idler pulley.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift lever.
- Place the suspension arms on deck pins. If necessary, raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Swing L.H. gauge wheel bar back towards rear of mower and secure with pin and retainer spring removed earlier.
- Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers and nuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

FRONT



#### **CHECK DECK LEVELNESS**

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

# CHECK FOR PROPER POSITION OF ALL BELTS

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

#### **INSTALL BATTERY (See Figs. 6 and 7)**



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

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

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

Use terminal access doors for:

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

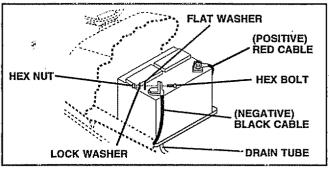


FIG. 6

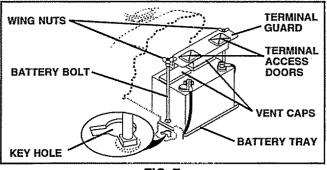


FIG. 7

#### ✓ CHECKLIST

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

#### PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

√

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

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

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

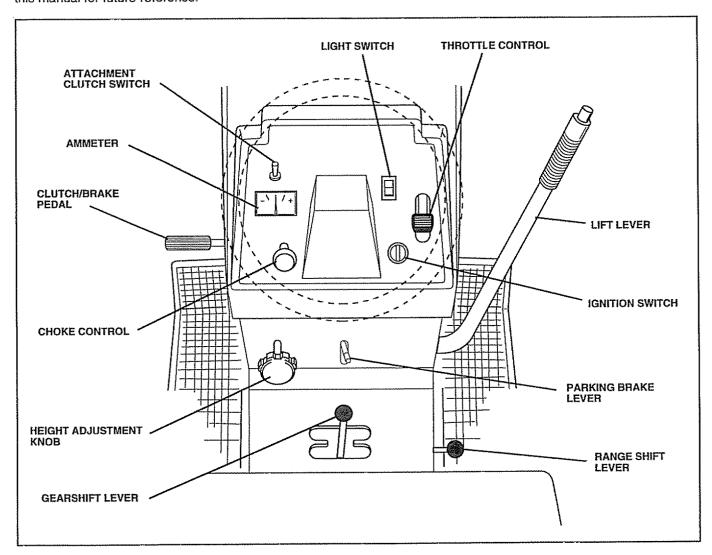


FIG. 8

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

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

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

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

**GEARSHIFT LEVER -** Selects the speed and direction of tractor.

THROTTLE CONTROL - Used to control engine speed.

**RANGE SHIFT LEVER** - Allows "Hi" or "LO" speed for all forward and reverse gears.

IGNITION SWITCH - Used to start and stop the engine.

AMMETER - Indicates battery charging (+) or discharging

LIGHT SWITCH - Turns the headlights on and off.

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

CHOKE CONTROL - Used when starting a cold engine. HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.



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

### HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE (See Fig. 9)

- 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 vehicle secure.

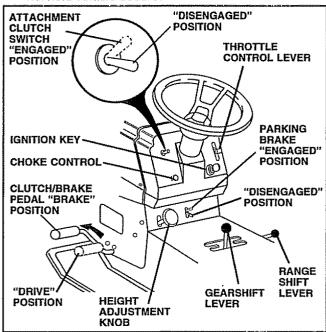


FIG. 9

#### STOPPING (See Fig. 9)

#### **MOWER BLADES -**

 Move attachment clutch switch to "DISENGAGED" position.

#### **GROUND DRIVE -**

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

#### **ENGINE** -

Move throttle control to slow (\*\*) position.

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

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

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



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

#### TO USE CHOKE CONTROL (See Fig. 9)

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. 9)

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. 9)

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

# TO ADJUST MOWER CUTTING HEIGHT (See Fig. 9)

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

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

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

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

### TO ADJUST GAUGE WHEELS (See Fig. 10)

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

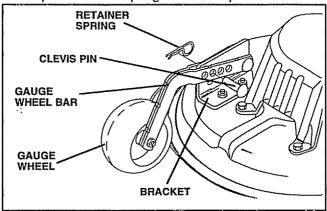


FIG. 10

### TO OPERATE MOWER (See Fig. 8 and 9)

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.

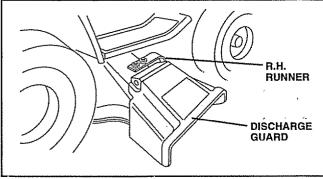


FIG. 11

#### 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 gearshift lever to 1st gear and range shift lever to low (L) position. Be sure you have allowed room for unit to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

#### TO TRANSPORT

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

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

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

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

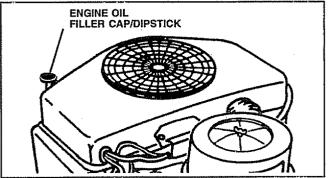


FIG. 12

#### ADD GASOLINE

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

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

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



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

#### TO START ENGINE (See Fig. 9)

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

- Depress clutch/brake pedal and set parking brake.
- Place gearshift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to choke (|\)) position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between fast (�) and slow (♣) positions.
- Insert key into ignition and turn key clockwise to "START"
   position and release key as soon as engine starts. Do
   not run starter continuously for more than fifteen
   seconds per minute. If engine does not start after
   several attempts, move throttle control to fast (4)
   position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to fast (\*) position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

#### **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing përformance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 11).
- 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.

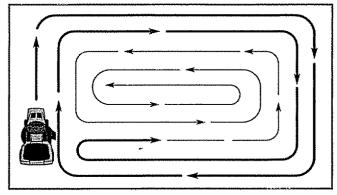


FIG. 13

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE  BEFORE TO REST ENERY OF THE ENERY SERVICE DATES												
	Check Brake Operation	W		3/								
	Check Tire Pressure	1/		<b>W</b>								
I	Check for Loose Fasteners	6/							8/			
R	Sharpen/Replace Mower Blades				<b>3</b> /4							
A	Lubrication Chart				Beer .				6/			
ĬŤ	Check Battery Level/Recharge				0							
0	Clean Battery and Terminals				<b>1</b>				See			
R	Check Transaxle Cooling				6							
	Adjust Blade Belt(s) Tension						<b>1</b> 5					
	Adjust Motion Drive Belt(s) Tension						<b>1</b> 5					
	Check Engine Oil Level			9/								
	Change Engine Oil		0		1,2,3				Grand Control			
E	Clean Air Filter				<b>1</b> 2							
N	Clean Air Screen		l		<b>1</b> 2							
G	Inspect Muffler/Spark Arrester											
	Replace Oil Filter (If equipped)						<b>1</b> ,2					
N	Clean Engine Cooling Fins						<b>1</b> /2					
E	Replace Spark Plug						4	800				
	Replace Air Filter Paper Cartridge						<b>6</b> /2					
79,000,000	Replace Fuel Filter							6/				

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

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

### **GENERAL RECOMMENDATIONS**

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

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

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

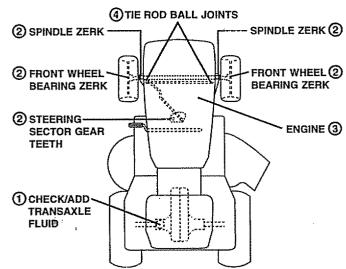
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

#### **BEFORE EACH USE**

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

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

#### LUBRICATION CHART



- 1) SAE 30 MOTOR OIL API SG
- (2) GENERAL PURPOSE GREASE
- (3) REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION
- (4) SPRAY SILICONE LUBRICANT (MOVE BOOTS TO LUBRICATE)

#### **TRACTOR**

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### TIRES

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

#### **BLADE CARE**

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

#### **BLADE REMOVAL (See Fig. 14)**

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

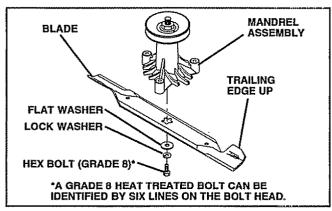


FIG. 14

### TO SHARPEN BLADE (See Fig. 15)

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

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

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

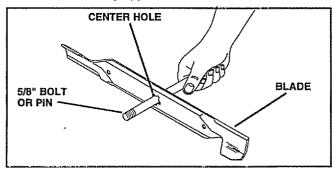
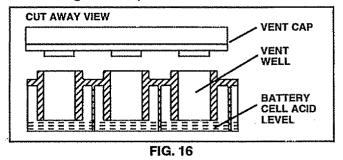


FIG. 15

#### **BATTERY (See Fig. 16)**

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

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



#### TO CLEAN BATTERY AND TERMINALS

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

Open battery box door.

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

#### **V-BELTS**

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

#### TRANSAXLE COOLING

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

# CHECK TRANSAXLE OIL LEVEL (See Fig. 17)

- Block up rear axle securely or use a tractor jack.
- Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil, API-SG. Replace filler plug.
- · Reassemble wheel to hub.
- For approximate capacity see "PRODUCT SPECIFI-CATIONS" on page 3 of this manual.

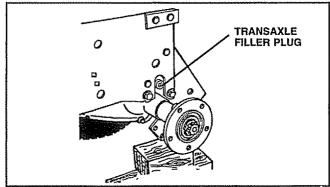


FIG. 17

#### **ENGINE**

#### LUBRICATION

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

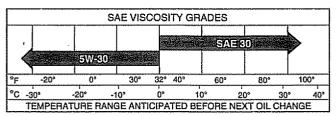


FIG. 18

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

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

Check the crankcase oil level before starting the engine and after each eight (8) hours of continuous use.

TO CHANGE ENGINE OIL (See Fig. 18 and 19)

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

- Be sure tractor is on level surface.
- · Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil 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.

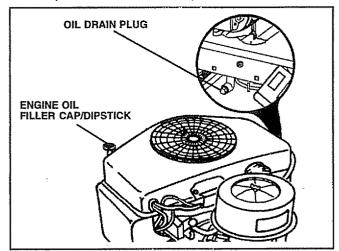


FIG. 19

#### CLEAN AIR SCREEN (See Fig. 20).

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. 20)**

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.)

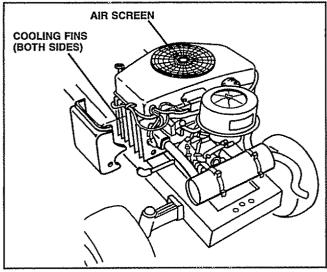


FIG. 20

#### AIR FILTER (See Fig. 21)

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.

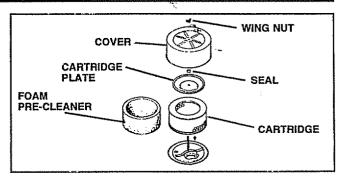


FIG. 21

#### **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. 22)

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.

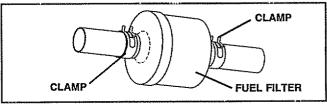


FIG. 22

#### **CLEANING**

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

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

#### **CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:**

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

#### TO REMOVE MOWER (See Fig. 23)

- 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

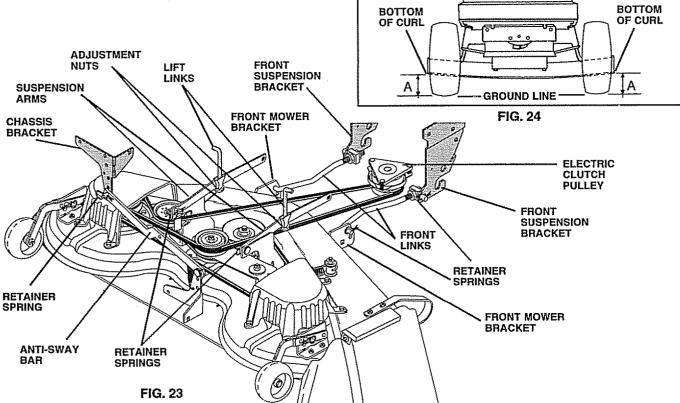
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 23 and 24)

- · Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" should be the same.
- If distance "A" needs to be changed, make adjustment on one side of mower only.
- Raise one side of mower by tightening lift link adjustment nut on that side.
- Lower one side of mower by loosening lift link adjustment nut on that side.

**NOTE**: Each half turn of adjustment nut will change deck level about 1/4".

Recheck level after adjusting.



19

FRONT-TO-BACK ADJUSTMENT (See Figs. 25 and 26) - 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.

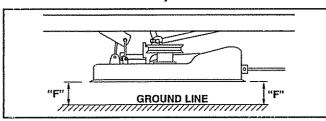


FIG. 25

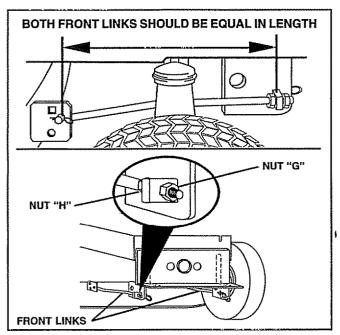


FIG. 26

#### TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 27) -

- 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. 27) -

- 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.

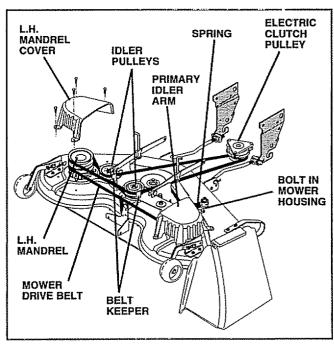


FIG. 27

# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 28)

Park the tractor on level surface. Engage parking brake.

- Remove mowerdrive belt (See "TOREPLACE 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).

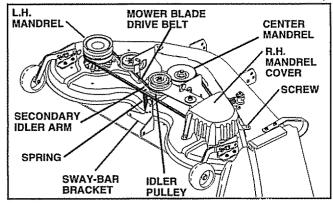


FIG. 28

# TO ADJUST ATTACHMENT CLUTCH (See Fig. 29)

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

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

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

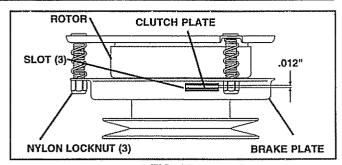


FIG. 29

#### TO ADJUST BRAKE (See Fig. 30)

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

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

IMPORTANT: DO NOT OVER TIGHTEN BRAKE. WHEN DEPRESSING CLUTCH BRAKE PEDAL, THE MOTION DRIVE BELT MUST STOP MOVING (DECLUTCH FROM ENGINE PULLEY) BEFORE BRAKE ENGAGES. IMPROPER ADJUSTMENT WILL CAUSE HARD SHIFTING AND EXCESSIVE WEAR TO BRAKE LINING.

- Park and turn off the tractor on a level surface. Place gear shift lever in neutral (N) position. Disengage parking brake and be sure tractor does not roll in either direction.
- Lower mower deck (if installed on tractor).
- Snap out access hole cover on left side of tractor above footrest.
- Loosen jam nut at clevis which will allow brake rod to be rotated.
- With pliers, from underside of frame, unscrew brake rod from clevis four (4) to six (6) full turns.
- Start tractor with gear shift lever in neutral (N) position.
- Slowly depress clutch/brake pedal to the point where the motion drive belt stops moving. Hold clutch/brake pedal in this position and engage parking brake. If belt begins to move after engaging parking brake, reset parking brake by depressing clutch/brake pedal slightly to next notch on parking brake.
- Stop engine. Screw brake rod back into clevis until clevis pin is against rear edge of slot in brake arm. Do not over tighten (see "IMPORTANT" above).
- Tighten jam nut against clevis.
- Replace access hole cover.
- Road test tractor for proper stopping distance and declutching as stated above. Readjust if necessary. If proper adjustment cannot be attained, further maintenance is necessary. Contact your nearest authorized service center/department.

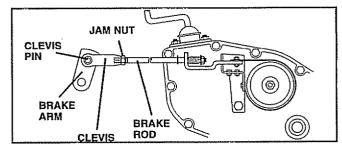


FIG. 30

# TO REPLACE MOTION DRIVE BELT (See Fig. 31)

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

#### **BELT REMOVAL -**

- Raise hood and disconnect BLACK (grounding) battery cable.
- · Set parking brake (to get belt slack).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- · Pull belt out of all belt keepers.

#### **BELT INSTALLATION -**

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

**IMPORTANT: CHECK BRAKE ADJUSTMENT.** 

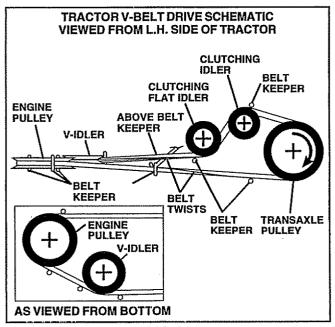


FIG. 31

#### TO ADJUST STEERING WHEEL ALIGNMENT

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

#### FRONT WHEEL TOE-IN ADJUSTMENT

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

#### TO CHECK TOE-IN (See Fig. 32) -

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

#### TO ADJUST TOE-IN (See Figs. 32 and 33) -

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

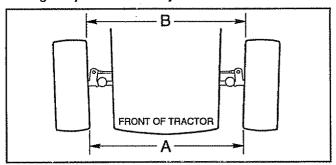


FIG. 32

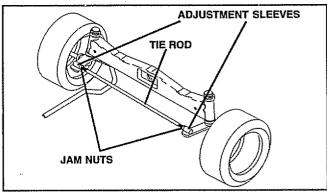


FIG. 33

#### FRONT WHEEL CAMBER

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

#### TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL (See Fig. 34) -

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

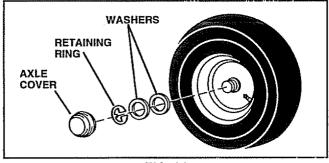


FIG. 34

#### **REAR WHEEL-**

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

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 35)



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

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

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

#### TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGA-TIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

#### TO REMOVE CABLES, REVERSE ORDER -

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

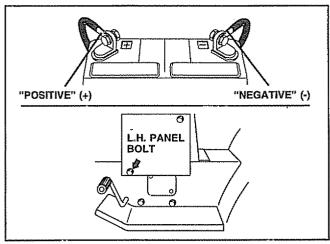


FIG. 35

#### TO REPLACE HEADLIGHT BULB

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

#### INTERLOCKS AND RELAYS

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

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

#### TO REPLACE FUSE

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

# TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 36)

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

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

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

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

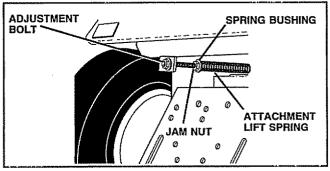


FIG. 36

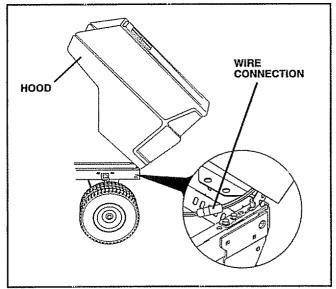


FIG. 37

#### **ENGINE**

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

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

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

#### TO ADJUST CARBURETOR (See Fig. 40)

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

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

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

#### PRELIMINARY SETTING -

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

#### FINAL SETTING -

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

#### **ACCELERATION TEST-**

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

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

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

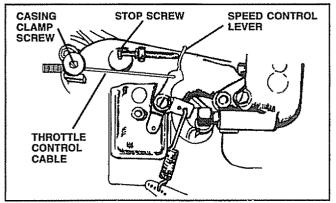


FIG. 38

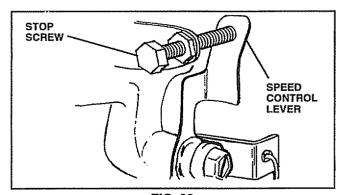


FIG. 39

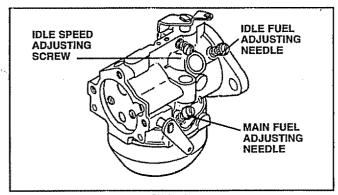


FIG. 40

### STORAGE

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



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

#### **TRACTOR**

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

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

#### **BATTERY**

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

#### **ENGINE**

#### **FUEL SYSTEM**

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

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

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

#### ENGINE OIL

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

#### **CYLINDERS**

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

#### **OTHER**

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

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

# **SERVICE NOTES**

# **TROUBLESHOOTING POINTS**

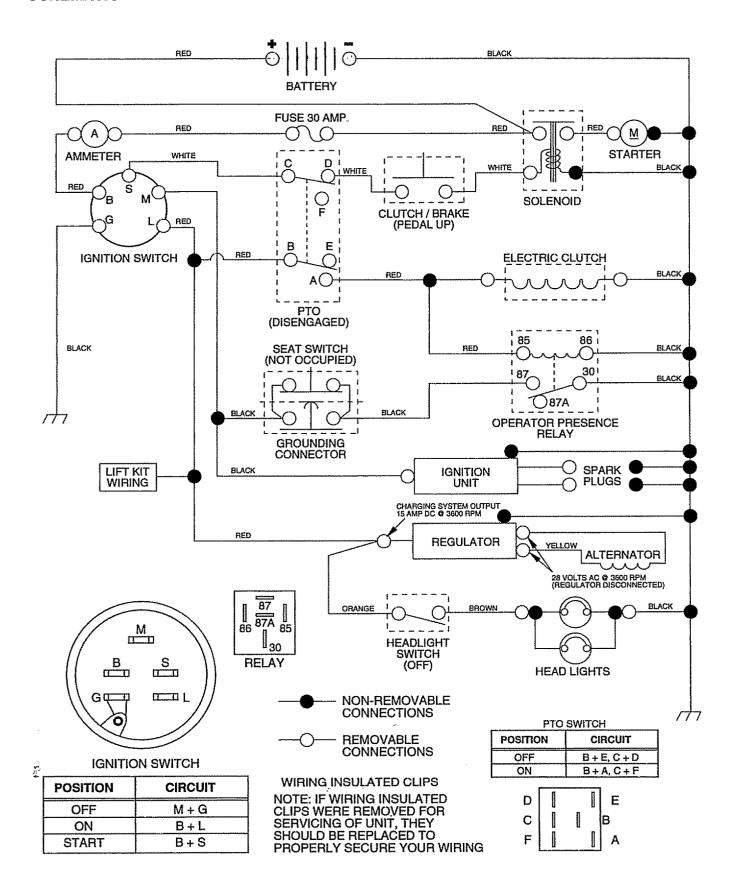
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Walt 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	1. Dirty air filter. 2. Bad spark plug 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.	<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	1. Clutch/brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center/department.
Engine clicks but will not start	1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter.	Recharge or replace battery.     Clean battery terminals.     Check all wiring.     Check/replace solenoid or starter.
Loss of power	1. Cutting too much grass/too fast 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel.  10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	<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>Bulldup 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>	1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel. 5. Clean around mandrels to open vent holes.			
Mower blades will not rotate	<ol> <li>Obstruction in clutch mechanism.</li> <li>Wom/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ol>	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 wom</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)	<ol> <li>Switch is "OFF".</li> <li>Bulb(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	<ol> <li>Turn switch "ON".</li> <li>Replace bulb(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>			
Battery will not charge	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	Replace battery.     Check/clean all connections.     Replace regulator.     Replace alternator.			
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.			

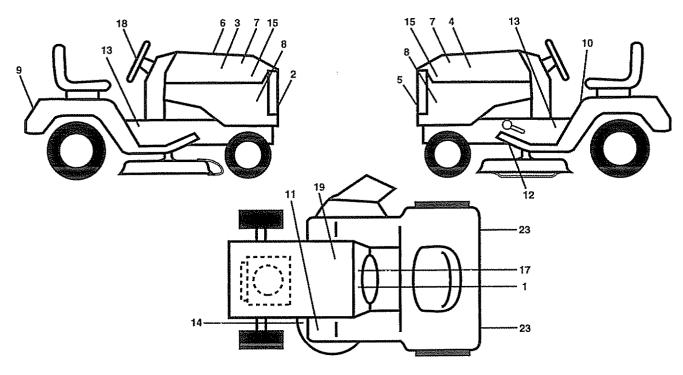
#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **SCHEMATIC**



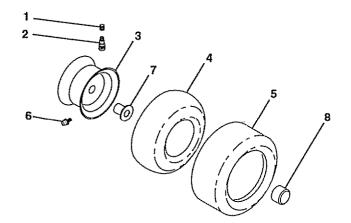
### 18 HP 44" TRACTOR - - MODEL NUMBER 917.255980

### **DECALS**



KEY NO.	PART NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	136794	Decal, Operating Instruction	12 138435	Decal, V-Belt Drive Schematic
2	138591	Decal, Grill GT 6000 USA Black	13 105567X	Decal, Chassis, 6 Speed/44"
3	138042	Decal, Hood, Craftsman, RH	14 139346	Decal, V-Belt Schematic
4	138043	Decal, Hood, Craftsman, LH	15 138276	Decal Hood Insert Hd GT
5	138264	Decal, Grille, Craftsman	17 138834	Decal, Dash
6	133644	Decal, Maintenance	18 132266	Decal, Insert Strg
7	138048	Decal, Side Panel	19 138047	Decal, Battery
8	128538	Decal, Side Panel	23 106202X	Reflector, Taillight
9	128314	Decal, Fender, Craftsman	- <i>-</i> 137979	Manual, Ówner <sup>-</sup> s (Eng)
10	137537	Decal, Caution	137980	Manual, Owner's (Span)
11	4900J	Decal, Clutch/Brake		

### **WHEELS & TIRES**

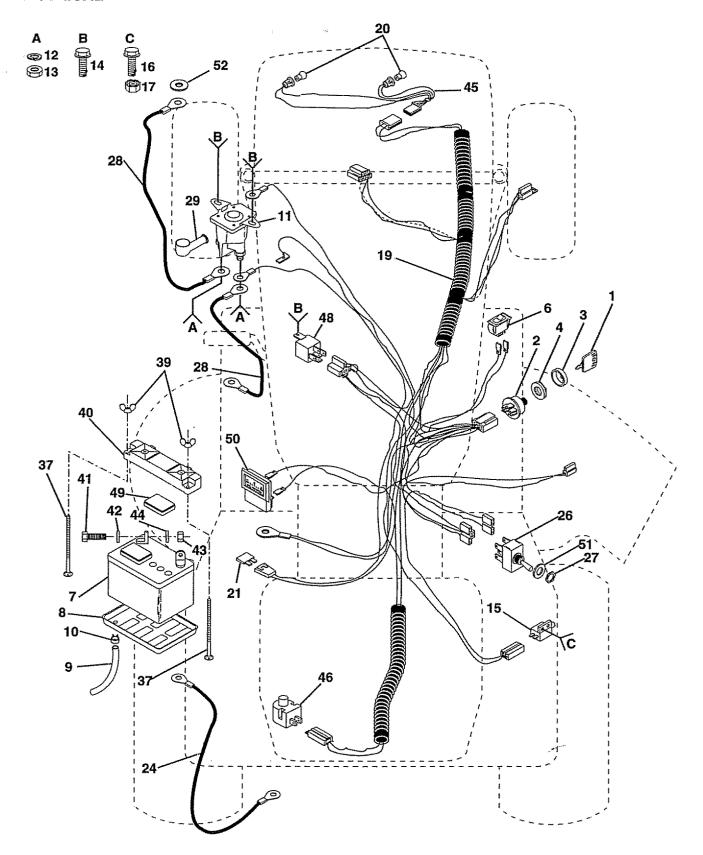


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
2 3	122974X	Rim Assembly, Front
	3635R	Rim Assembly, Rear
4	8134H	Tube, Front (Service Item Only)
	7154J	Tube, Rear (Service Item Only)
5	106230X	Tire, Front
	105588X	Tire, Rear
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X	Cap. Axle (Front Wheel Only)
	136327	Cover, Axle (Rear Wheel Only)
		· · · · · · · · · · · · · · · · · · ·

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

### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

### **ELECTRICAL**



### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

### **ELECTRICAL**

1 109310X Key, Ignition 2 4406R Switch, Ignition 3 123620X Cover, Switch Key 4 124211X Nut, Ignition 6 110712X Switch, Light 7 121537X Battery	
2 4406H Switch, Ignition 3 123620X Cover, Switch Key 4 124211X Nut, Ignition	
4 124211X Nut, Ignition	
C 110710V Cwitch Light	
6 110712X Switch, Light	
8 7603J Tray, Battery	
9 7697J Tube, Drain 10 109596X Clamp, Hose	
10 109596X Clamp, Hose 11 138406 Solenoid	
12 10090400 Washer, Lock 1/4	
13 STD541225 Nut, Hex Jam 1/4-20 14 17720408 Screw, Hex Washer Head, Thre	
14 17720408 Screw, Hex Washer Head, Thre Cutting 1/4-20 x 1/2	ao
15 104445X Switch, Intlk Cl Grd Gry 2 Term	
16 71031008 Screw, Hex Washer Head	
#10-32x1/2	
17 73951000 Nut, Keps #10-32 18 135665 Diode Asm., Heavy Duty	
18 135665 Diode Asm., Heavy Duty 19 137424 Harness, Ignition	
20 4152J Bulb, Headlight	
21 108824X Fuse	
24 121080X Cable, Ground	
26 4021J Switch, P.T.O. 27 4022J Nut, Hex 1/2-28 Unef	
28 4799J Cable, Battery	
29 131563 Cover, Terminal	
37 72240460 Bolt, Carriage 1/4-20 x 7-1/2	
39 123198X Nut, Wing 1/4-20 40 102476X Guard, Terminal	
40 102476X Guard, Terminal 41 STD522507 Bolt, Hex 1/4-20 x 3/4	
42 STD551025 Washer 9/32 x 5/8 x 16 Ga.	
43 STD541025 Nut, Hex 1/4-20	
44 STD551125 Washer, Lock 1/4 45 127441X Harness, Light Socket	
46 121305X Switch, Plunger	
48 109748X Relay, Operator Presence	
49 121264X Caps, Battery	
50 122822X Ammeter 51 19171216 Washer 17/32 x 3/4 x 16 Ga.	
52 11150400 Washer, Lock, Int. Tooth	

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

### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **CHASSIS AND ENCLOSURES** .<sup>2</sup> 59 63 46 46 63 F 64 65 - 20 93 ~26 32 -60 42

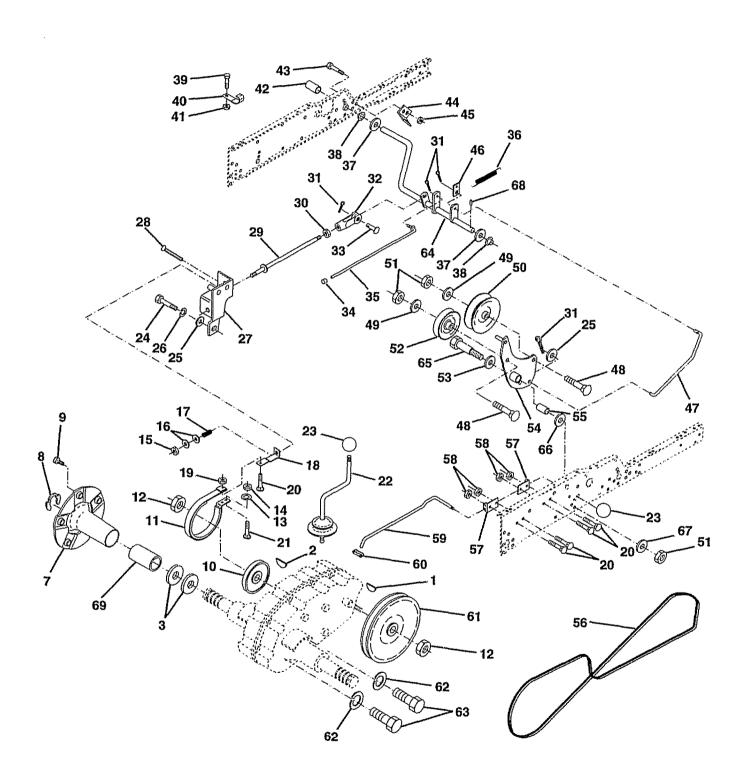
### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	138597	Rail, Frame RH	43	136939	Bracket, Spnsn Front Lh
2	7982J	Drawbar, Gt	44	136940	Bracket, Spnsn Front Rh
3 4	136671X459 73800700	Panel Asm., Side LH	45 46	138460 10040400	Bracket Asm., Susp Chassis Rh
4 5	136696	Nut, Lock Hex 7/16 Unc Dash, Plastic Black	40 48	136814	Washer, Lock Hvy Helical 1/4 Bracket Asm., Pivot Hood Lh
5 6	137251	Dash Asm., Lower	49	136813	Bracket Asm., Pivot Hood En
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	50	136575	Bracket, Chassis Front
8	140229	Support, Battery	52	73800500	Locknut, Hex W/Ins 5/16-18 Unc
9	108067X	Nut, Pal	53	137304	Rod, Support Hood
10	19092016	Washer 9/32 x 1-1/4 x 16 Ga.	54	126470X	Clip, Insulated
11	137270	Rivet, Ratchet Male	56	138461	Bracket Asm., Susp Chassis Lh
12	137269	Washer, Nylon	57	73510400	Nut, Keps Hex 1/4-20
13	137271	Rivet, Ratchet Female	58	137113	Bracket Asm., Fender
14	136673X459		59	74180412	Screw, Mach Cr 1/4-20 x 3/4
15	136374	Lens, Bar Clear	60	72140610	Bolt, Carriage 3/8-16 x 1-1/4
16	121794X	Cover, Access	62	72110608	Bolt, Carriage 3/8-16 x 1 Gr. 5
17 18	17490612	Screw, Thdrol 3/8-16 x 3/4	63	19131614	Washer 13/32 x 1 x 14 Ga.
19	136373X428 19131312	Grille Washer 13/32 x 13/16 x 12 Ga.	64 65	10040600 73220600	Washer, Lock Hvy Hlcl Spr 3/8 Nut, Fin Hex 3/8-16 Unc
20	74760616	Bolt, Fin Hex 3/8-16 x 1	66	105466X	Pad, Footrest
21	73800600	Nut, Lock Hex W/Wsh 3/8-16 Unc	67	140737	Guide, Belt T/A
22	136670X459	Panel Asm., Side RH	69	140022	Shield, Heat
23	121045X	Panel, Dash Side RH		137159	Guide, Belt Mid Span
24	105464X459	Footrest, RH	72	74180512	Screw, Mach Trhd 5/16-18 x 3/4
25	17490612	Screw, Thdrol 3/8-16 x 3/4	73	74780616	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	17490512	Screw, Thdrol 5/16-18 x 3/4	77	137308	Shield, Front
27	121046X	Panel, Dash Side LH	78	17720408	Screw, Thd. Cut 1/4-20 x 1/2
28	105465X459	Footrest, LH	84	138952	Stop, Over Center Mower
29	138193	Bracket, Support Dash	85	120404X	Bracket, Support Transaxle
30	137143X013			74760716	Bolt, Fin Hex 7/16-14 Unc x 1
31	137556	Brace, Support Steering	88	10040700	Washer, Lock Hvy Hlcl Spr 7/16
32 33	136742 136741	Bracket Asm., Frame Pivot Lh	90 91	11050600 110893X	Washer, Lock External Tooth 3/8 Rail, Frame Lh
33 34	136963	Bracket Asm., Frame Pivot Rh Bracket, Engine Support Rear	92	124557X022	Plate, Silkscreen Dash
35	19111116	Washer 11/32 x 11/16 x 16 Ga.	93	17490608	Screw, Thdrol 3/8-16 x 1/2
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4	94	100207K	Clip, Fuel Line
37	121642X459	Fender, Pnt.	95	105531X	Push Nut, Nylon
38	19091216	Washer 9/32 x 3/4 x 16 Ga.	96	8022J	Plug, Hole
39	136961	Bracket, Axle Front	97	137373	Shield, Heat, Engine
40	136962	Bracket, Support Axle/Engine			
41	74760408	Bolt, Fin Hex 1/4-20 Unc x 1/2	NOT		ent dimensions given in U.S. inches
42	72140608	Bolt, Carriage 3/8-16 x 1		1 inch = 25	.4 mm

# 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

### **GROUND DRIVE**



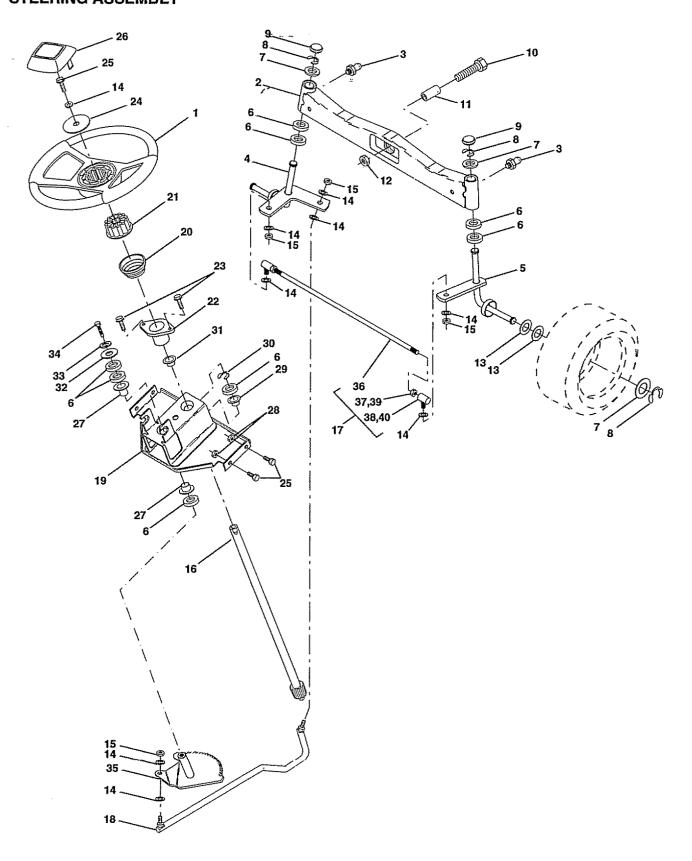
## 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **GROUND DRIVE**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	9858M1	Key, Woodruff	37	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
2	2228M	Key, Woodruff	38	110895X	Nyliner
3	7563R	Washer, Thrust, Axle	39	74321016	Screw, Fin. #10-24 x 1
7	135758	Wheel Hub Assembly	40	5304J	Actuator, Interlock Switch
8	12000034	Klip Ring	41	STD541410	Locknut #10-24
9	140080	Bolt, Hub	42	8883R	Cover, Clutch/Brake Pedal
10	214J	Drum, Brake	43 44	STD522507	Bolt, Hex 1/4-20 x 3/4 Bracket, Interlock
11	101122M	Band, Brake	44 45	104601X 73680400	Crownlock Nut 1/4-20
12 13	9204H STD551125	Locknut 1/2-20 Washer, Lock 1/4	40 46	121358X	Retainer, Spring
14	STD551125	Nut, Hex 1/4-20	47	138228	Clutch Rod
15	73530600	Locknut 3/8-24	48	72110614	Bolt, Carriage 3/8-16 x 1-3/4
16	19131614	Washer 13/32 x 1 x 14 Gauge	49	19131413	Washer 13/32 x 7/8 x 13 Gauge
17	7241J	Spring, Compression	50	131494	Idler, Flat
18	7229J	Guide, Brake Rod	51	73800600	Locknut, Hex 3/8-16
19	1685H	Locknut 5/16-18	52	139123	Idler, Grooved
20	STD533107	Bolt, Carriage 5/18-18 x 3/4	53	207J	Washer, Hardened
21	72140405	Bolt, Carriage 1/4-20 x 5/8	54	138390	Clutch Arm Assembly
22	633A109	Gearshift Lever Assembly	55	105706X	Bearing, Idler
23	106932X	Knob	56	137153	V-Belt
24	74760614	Bolt, Hex Head 3/8-16 x 7/8	57	105598X	Bracket, Shift Rod, Hi-Lo
25	19131316	Washer 13/32 x 13/16 x 16 Gauge	58	73800500	Locknut, Hex, with Washer Insert
26	STD551137	Washer, Lock 3/8		4000000	5/16-18
27	677A637	Bracket, Brake	59	122253X	Shift Rod, Hi-Lo
28	74370612	Screw, Machine, Flat Head	60	122268X	Spring Clip, Connecting Link Pulley, Transaxle
00	E000 I	3/8-16 x 3/4	61	137524	
29	5308J 73610600	Brake Rod Nut, Hex 3/8-24	62 63	STD551143 74760720	Washer, Lock 7/16  Bolt, Hex Head 7/16-14 x 1-1/4
30 31	STD560907	Pin, Cotter 3/32 x 3/4	64	104375X	Shaft, Clutch/Brake Pedal
32	100604K	Yoke	65	67609	Bolt, Shoulder
33	5102J	Pin, Clevis	66	129962	Washer, Hardened
34	124236X	Cap, Plunger	67	19131312	Washer Flat
35	137255	Rod, Parking Brake	68	5142H	Pin, Roll
36	138364	Spring, Extension, Clutch	69	136327	Hub, Cover
					·

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

# 18 HP 44" TRACTOR - MODEL NUMBER 917.255980 STEERING ASSEMBLY



#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

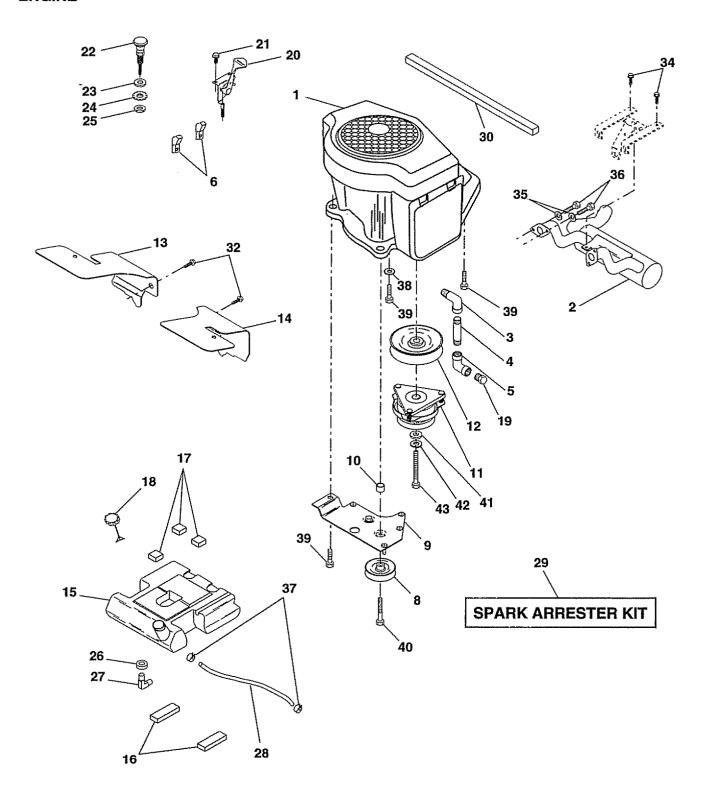
#### STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 0 1 1 2 3 4 1 5 6 7 8 9 1 1 1 2 3 1 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	121472X 137094 6855M 136960 136959 6266H 121748X 12000029 121232X 74781044 136518 73901000 121749X 10040600 73610600 102458X 137347	Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm, LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer, Brg. Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hicl Spr 3/8 Nut, Fin Hex 3/8-24 Unf Shaft Asm., Steering Rod Asm. Tie Ball J Ball Vot (Inc.)
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	137155 138053 121050X 100711L 1554J 17431008 19133808 74780616 126805X 3366R 73800600 104239X 12000034 138136 19111610 10040500 74760512 138059 137156 73360600 109850X	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40) Draglink, Ball Joint Solid Vgt Support Asm., Steering Vgt Column, Steering Adapter, Wheel Steering Bushing, Strg. Blk Screw, Slftp #10-16 x 1/2 Ty-b Washer 13/32 x 2-3/8 x 8 Ga. Bolt, Fin Hex 3/8-16 x 1 Gr. 5 Cap, Wheel Steering Bearing, Col. Strg. Nut, Lock Hex W/Wsh 3/8-16 Unc Bearing, Flange Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hlcl Spr 5/16 Bolt, Hex Hd 5/16-18 x 3/4 Gear, Sector Steering Tie Rod Jam Nut RH Thread Joint Asm. Ball RH Thread Joint Asm. Ball LH Thread

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

#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **ENGINE**



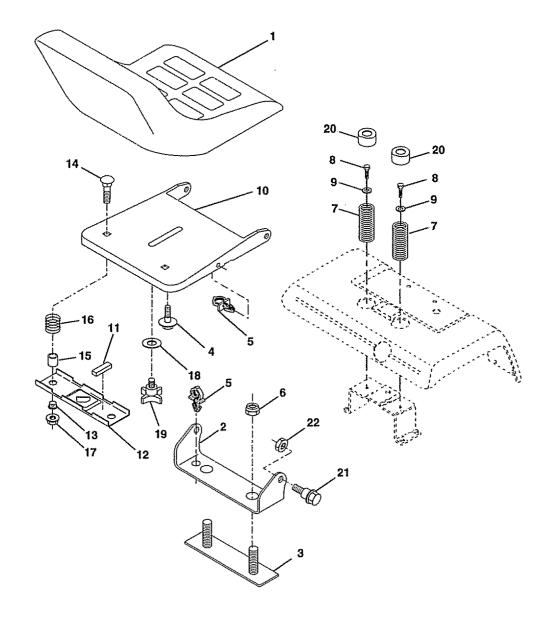
#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **ENGINE**

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	137303	Engine Kohler 18 IC Mag Vert	23	19132616	Washer 13/32 X 1 - 5/8 X 16 Ga
2	139214	Muffler Asm Kohler VGT (Inc. Key No. 34)	24 25	11050600 73610600	Washer Ext Tooth 3/8 Nut Fin Hex 3/8 - 24 UNF
3	13240300	Elbow Street 3/8 NPT	26	3645J	Bushing
4	13280328	Nipple Pipe 3/8NPT X 3 - 1/2	27	139277	Stem Tank Fuel
5	13200300	Elbow STD 90 Degree 3/8 - 18 NPT	28	7834R	Fuel Line
6	138129	Clamp Tube Double Engine	29	132920	Spark Arrester Kit
8	121361X	Pulley V-Idler	30	105037X	Strip Foam
9	138559	Stop Keeper Asm VGT	32	17490508	Screw Thdrol 5/16 - 18 X 1/2
10	105432X	Bushing	34	17720408	Screw Thd Cut 1.4 - 20 x 1/2
11	137140	Clutch Electric	35	10040500	Washer Lock 5/16
12	136907	Pulley Engine VGT Elect Clutch	36	74570512	Screw Hex 5/16 - 16 UNC X 3/4
13	138486	Baffle Air LH Koh VGT	37	123487X	Clamp Hose
14	138487	Baffle Air RH Koh VGT	38	11050600	Lockwasher Ext Tooth 3/8
15	141069	Tank Fuel W/Sym Vented	39	17490624	Screw Thdrol 3/8 - 16 X 1 - 1/2 TT
16	109227X	Pad Spacer	40	17490652	Screw Thdrol 3/8 - 16 X 3 - 1/4
17	106082X	Pad Spacer	41	126197X	Washer 1 - 1/2 OD X 15/32 ID X
18	123549X	Cap Asm Fuel W/Sym Vented			.250
19	13290300	Plug Oil Drain (Order From Engine	42	10040700	Washer Lock 7/16
	100000	Manufacturer)	43	71170768	Bolt Hex 7/16 - 20 X 4 - 1/4 Ga 5
20	138673	Control Throttle			
21	17720410 138672	Screw Hex Thd Cut 1/4 - 20 X 5/8 Control Choke	NOT	E. All compo	onent dimensions given in U.S. inches
22					

## 18 HP 44" TRACTOR - - MODEL NUMBER 917.255980

#### **SEAT ASSEMBLY**



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	•	PART NO.	DESCRIPTION
123456789 10112	127438X 126656X 105511X 127018X 140407 73680600 124181X 17490508 19131614 131451 121251X 121246X	Seat Bracket, Pivot Seat Strap, Fender Bolt, Shoulder 5/16-18 X .62 Clip, Push In Nut, Crownlock 3/8-16 Unc Spring, Seat Cprsn Screw, Thdrol 5/16-18 X 1/2 Washer 13/32 X 1 X 14 Ga. Pan, Seat Strip, Foam Bracket, Mounting Switch	13 14 15 16 17 18 19 20 21 22 NOT	72 13 12 12 12 12 12 73	21248X 2050411 24300 24300 243976X 24771912 20068X 24238X 25529X 2680500 All compor 1 inch = 25	Bushing, Snap Bolt, Carriage 1/4-20 X 1-3/8 Spacer, Split Spring, Cprsn Nut, Lock 1/4 Lge Flg Gr. 5 Washer 17/32 X 1-3/16 X 12 Ga. Knob, Seat 1/2-13 Unc Cap, Spring Seat Bolt, Shoulder 5/16-18 Unc Nut, Crownlock 5/16-18 Unc tent dimensions given in U.S. inches 1.4 mm

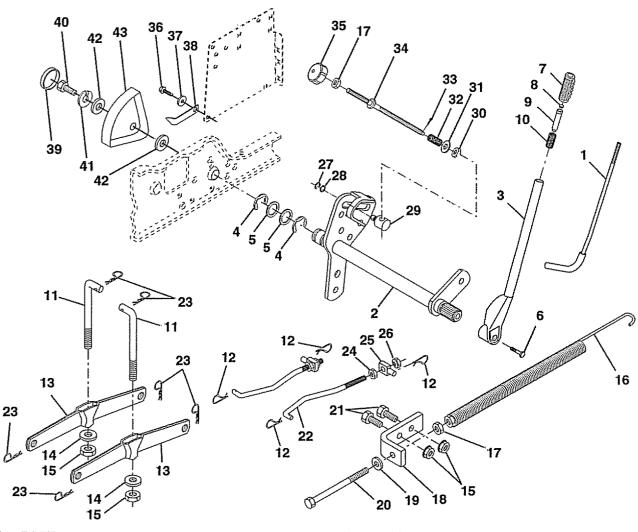
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#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### LIFT ASSEMBLY

4939M

Retainer, Spring

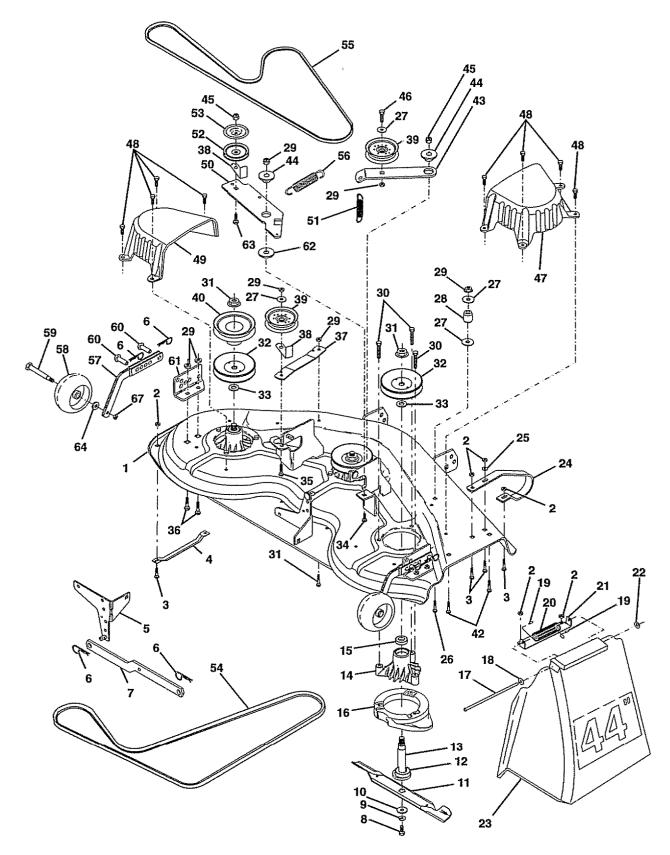


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	121006X	Rod Asm., Lever	24	73350800	Nut, Jam Hex 1/2-13 Unc
2	137295	Shaft Asm., Lift Vgt	25	130171	Trunnion
3	121002X	Lever Asm., Lift Rh	26	73800800	Nut, Lock W/Wsh 1/2-13 Unc
4	12000022	E-Ring Truarc #5133-87	27	12000037	Ring, Klip #T5304-37
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.	28	19151216	Washer 15/32 x 3/4 x 16 Ga.
6	74780624	Bolt, Fin Hex 3/8-16 x 1-1/2	29	110810X	Trunnion, Dp Stop Dbl Thds Plt
7	125631X	Grip, Handle Fluted	30	110807X	Nut, Special
8	122365X	Button, Plunger	31	19131016	Washer 13/32 x 5/8 x 16 Ga.
9	122364X	Plunger, Lever Lift	32	137150	Spring, Compression Inf Hgt
10	2876H	Spring 2-1/8"	33	76020308	Pin, Cotter 3/32 x 1/2
11	138020	Link Lift	34	137167	Rod, Adj Lift
12	3146R	Retainer, Spring	35	138057	Knob, Inf 3/8-16 Unc
13	138023	Arm, Suspension Vgt	36	17490608	Screw, Thdrol 3/8-16 x 1/2
14	19131611	Washer 13/32 x 1 x 11 Ga.	37	120529X	Washer, Nylon
15	73800600	Nut, Lock Hex W/Wsh 3/8-16 Unc	38	123933X505	Pointer, Pnt Height Indicator
16	674A247	Spring Asm., Assist Lift	39	123935X	Plug, Hole
17	73350600	Nut, Hex Jam 3/8-16 Unc	40	74780516	Bolt, Fin Hex 5/16-18 x 1
18	5329J	Bracket, Spring Assist	41	10040500	Washer, Lock Hvy Hicl Spr 5/16
19	19131316	Washer 13/32 x 13/16 x 16 Ga.	42	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
20	5328J	Bolt, Adjust Spring Assist	43	123934X	Scale, Indicator Height
21	74760616	Bolt, Fin Hex 3/8-16 x 1			
22	127218	Link, Front	NOT	E: All compon	ent dimensions given in U.S. inches
~~	10001			4 * 1 * 4 ***	—————————————————————————————————————

1 inch = 25.4 mm

#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### 44" MOWER DECK



## 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

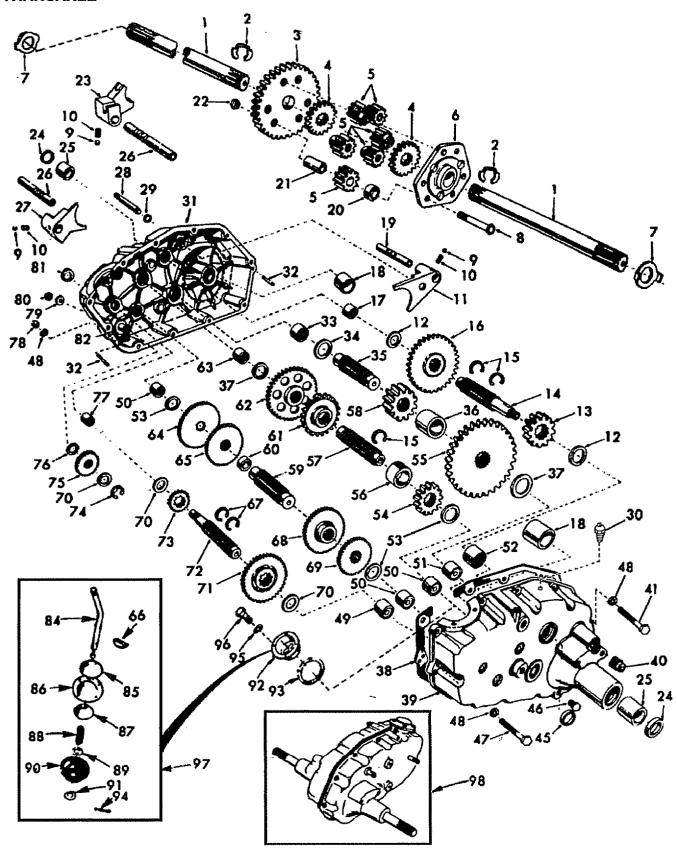
#### 44" MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 2 3	140579 73800500 72110506 7631J 138457 4939M 130832 850857 10030600 129962 130652 129895	Deck Asm., Mower 44" Vented Locknut, Hex W/Ins 5/16-18 Unc Bolt, Carriage 5/16-18 x 3/4 Runner, Mower LH Bracket Asm., Sway Bar Retainer, Spring Arm Suspension, Rear Bolt 3/8-24 x 1.25 Gr. 8 Patched Washer, Lock Hvy 3/8 Unplated Washer, Hard Blade Mower Vented Blade (3 Required) Bearing, Ball #6204 (Mandrel) Shaff Asm. W/I ower Brg (Includes)	32 33 34 35 36 37 38 39 40 42 43 44	129861 129963 72140610 72110616 72110608 137166 137554 131494 136572 72140506 136460 122052X	Pulley, Mandrel Washer, Spacer Mower Vented Bolt, Carriage 3/8-16 x 1-1/4 Bolt, Carriage 3/8-16 x 2 Bolt, Carriage 3/8-16 x 1 Gr. 5 Stiffener, Arm Idler Keeper, Belt Idler Pulley, Idler Flat Pulley, Driven Bolt, Carriage 5/16-18 Unc x 3/4 Arm, Idler Secondary Spacer, Retainer
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31	137553 137152 110485X 136929 106735X 19111016 105304X 123713X 137607 110452X 109785X 136321 19111216 72110614 19131316 132823 73800600 78158 137266	Shaft Asm., W/Lower Brg (Includes Key No. 12) Housing, Mandrel 44" Vent Bearing, Ball Mandrel Stripper, Mower Vented Rod, Hinge Washer 11/32 x 5/8 x 16 Ga. Cap, Sleeve Spring, Torsion Deflector Bracket, Deflector Nut, Push Shield, Deflector Mower Runner, RH Washer 11/32 x 3/4 x 16 Ga. Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5 Washer 13/32 x 13/16 x 16 Ga. Spacer, Spring Stop Idler Nut, Lock Hex W/Wsh 3/8-16 Unc Bolt 5/16-18 x 1.25 Nut, Flg Top Lock Cntr 9/16	45 46 47 48 49 50 51 52 53 55 55 55 56 61 62 63 64	73680600 74760628 137200 137729 136574 137272 137273 139245 137789 131264 131290 138687 136577 136577 13957 137644 139031 136573 133943 72110612 19121414	Nut, Crownlock 3/8-16 Unc Bolt, Fin Hex 3/8-16 Unc x 1-3/4 Cover, Mandrel RH Screw, Thd Roll 1/4-20 x 5/8 Cover, Mandrel LH Arm, Idler Primary Spring, Secondary Pulley, Idler V Groove Shield, Idler V -Belt, Mower Primary V-Belt, Mower Secondary Spring, Primary Bar Asm., Wheel Gauge Wheel, Gauge Bolt, Shoulder Pin, Clevis Bracket, Wheel Gauge Washer Hardened Bolt Carriage 3/8-16 x 1-1/2 Washer 3/8 x 3/4 x 14Ga

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

#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **TRANSAXLE**

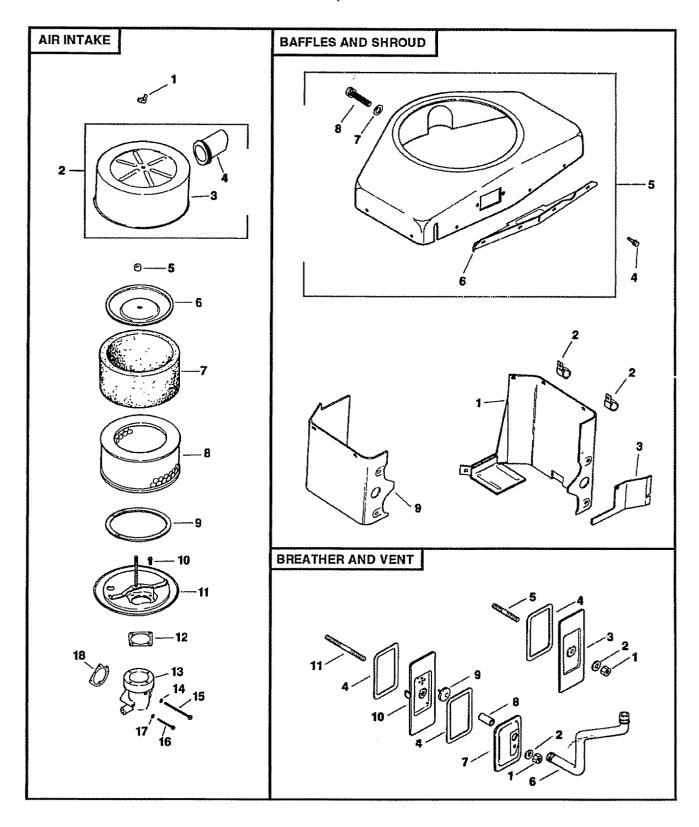


#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **TRANSAXLE**

KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1	4197R	Axle Shaft	51	1529R	Needle Bearing
2	12000034	Retaining Ring	52	8119M	Needle Bearing
3	4199R	Final Drive Gear	53	4220R	Thrust Bearing Race
4	4216R	Differential Gear		4209R	3rd Reduction Pinion, Low
5	4215R	Differential Pinion	55	4213R	4th Reduction Gear
6	4217R	Differential Carrier		4442R	3rd Reduction Pinion Spacer
7	6256H	Axle Thrust Washer	57	4195R	2nd Reduction Gear Shaft
8	74020652	Bolt, Hex Head 3/8-24 x 3-1/4	58	4214R	Final Drive Pinion
9	7392M	(1" Thread Length) Steel Ball		4194R 7528R	1st Reduction Gear Shaft 1st Reduction Shaft Spacer
10	137261	Spring Shift Fork Detent		4208R	3rd Reduction Plnion High
11	4985R	Shift Fork, High-Low Range	62	4207R	2nd Reduction Gear
12	6266H	Thrust Bearing Race		7398H	Needle Bearing
13	4212R	4th Reduction Pinion	64	4203R	Low Speed Gear and 2nd
14	4196R	3rd Reduction Gear Shaft			Reduction Pinion Cluster
15	6276H	Snap Ring, Crescent Type	65	4204R	Reverse Gear
16	633A63	High-Low Range Gears	66	2898J	Key, Hi-Pro 1/8 x 17/32
17	8118M	Needle Bearing		4926H	Snap Ring, Crescent Type
18	8740H1	Sintered Iron Bearing		4205R	Intermediate Speed Gear
19	122238X	Shift Fork Shaft, High-Low Range		4206R	High Speed Gear
20 21	4218R 6252H1	Differential Pinion Spacer Differential Pinion Bushing	70 71	1370H 633A69	Thrust Bearing Race Intermediate and High Speed
22	7810H	Gripco Centerlock Nut 3/8-24	7 1	OSSMOS	Cluster Pinions
23	6262H	Shift Fork, R.H.	72	208J	Input Shaft
24	7393R	Oil Seal	73	4201R	Low Speed Pinion
25	992R1	Sintered Iron Bearing	74	12000002	E-Ring
26	6216H	Shift Fork Shaft	75	1153R	Reverse Idler Gear
27	4986R	Shift Fork, L.H.	76	7392H	Reverse Idler Thrust Washer
28	122254X	Shift Shaft, High-Low Range	77		Needle Bearing
29	6269H	Oil Seal	78	73220500	Nut, Hex 5/16-18
30	5855H	Pressure Relief Valve	79	1167R	Sealing Washer
31	137976	Gearcase, Reverse Idler Shaft and	80	73360700	Nut, Hex, Jam 7/16-20
		Bearings, R.H. (Includes Key No.'s 17,18, 25, 33, 50, 63, 76, 77 & 82)	81 82	6270H 7384H	Oil Seal Reverse Idler Shaft
32	6277H	Dowel Pin	84	5384J	Gearshift Lever, Bent
33	4225R	Needle Bearing	85	2978J	Gearshift Cap
34	7396H	Thrust Bearing Race	86		Gearshift Ball Cover and Pin
35	4198R	4th Reduction Gear Shaft	87		Shift Lever Guide Ball, Keyed
36	4200R	4th Reduction Gear Spacer	88	4924H	Spring
37	7395H	Thrust Bearing Race		19151516	Washer 15/32 x 15/16 x 16 Gauge
38	121878X	Gearcase Gasket		110542X	Shift Mechanism Seal
39	137974	Gearcase and Bearings, L.H.	91	19181511	Washer 9/16 x 15/16 x 12 Gauge
		(Includes Key Numbers 18, 25, 49, 50 (2), 51 and 52)	92	75J	Gearshift Gate and Reinforcement
40	13320400	Pipe Plug 1/2-14 N.P.T.	93	6274H 76020412	Shift Ball Cover Gasket Cotter Pin 1/8 x 3/4
41	74780526	Bolt, Hex 5/16-18 UNC x 1-5/8	94 95	10040500	Washer, Lock 5/16
45	6271H	Oil Seal	96	74760514	Bolt, Hex Head 5/16-18 UNC x 7/8
46	13060200	Pipe Plug 1/4-18 N.P.T.	97	633A109	Gearshift Lever Assembly
47	74780524	Bolt, Hex 5/16-18 x 1-1/2 Grade 5	98	137982	Transaxle Assembly
48	10040500	Washer, Lock, Extra Heavy 5/16			(Less Brake Drum and Shift Lever)
49	4895H	Needle Bearing			
50	4222R	Needle Bearing	NOT	TE: All compor	nent dimensions given in U.S. inches
				1 inch = 25	o.4 mm

## 18 HP 44" TRACTOR - MODEL NUMBER 917.255980 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556



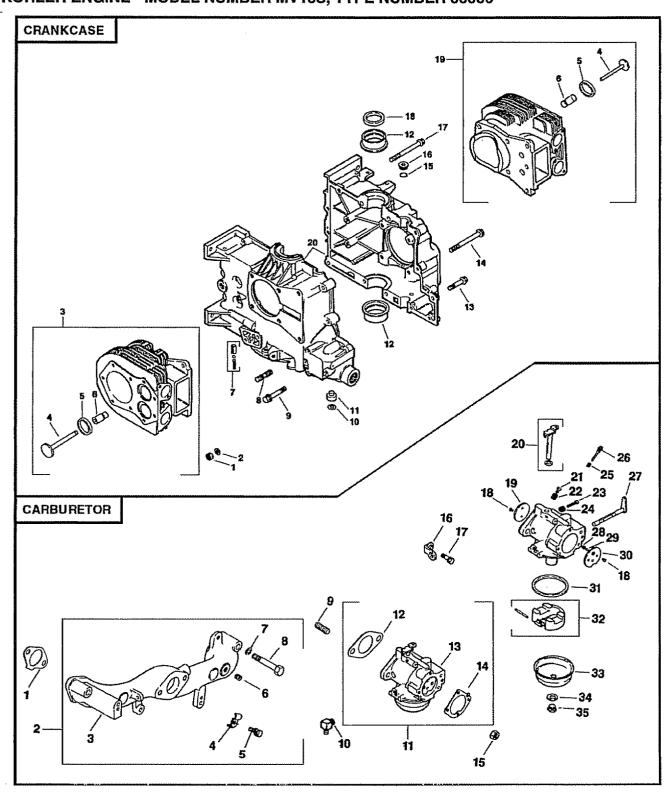
#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

#### **KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556**

AIR	INTAKE	•	BAFFLES & SHROUD		
KEY NO.		DESCRIPTION	KEY NO.		DESCRIPTION
1 3 4 5 6 7 8 9 10 11 12 13 14	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 52 054 39 X-25-79	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) Elbow, Air Intake Washer Plain #10	1 2 3 4 5 6 7 8 9 NO	52 063 21 47 154 01 52 063 01 X-67-83 52 755 70 52 217 01 52 468 16 52 086 11 52 124 23 T ILLUSTRAT 52 113 32	Baffle, #2 Cylinder Head Clamp Baffle, #2 Cylinder Top 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  ED Decal, Horsepower (3)
15	X-25-79 X-50-37	Washer, Plain #10 Screw, Slotted Pan Head #10-32 x 2-1/4	BRI	EATHER & VI	ENT
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.		DESCRIPTION
18	25 041 06 TILLUSTRATE 25 113 15 52 113 30	#10 (2) Gasket, Air Cleaner Elbow	1 2 3 4 5 6 7 8 9 10 11	X-81-1 X-25-12 52 096 18 52 055 01 X-352-39 52 326 12 52 096 08 52 032 04 52 462 01 52 096 22 275220	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

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

# 18 HP 44" TRACTOR - MODEL NUMBER 917.255980 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556



#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

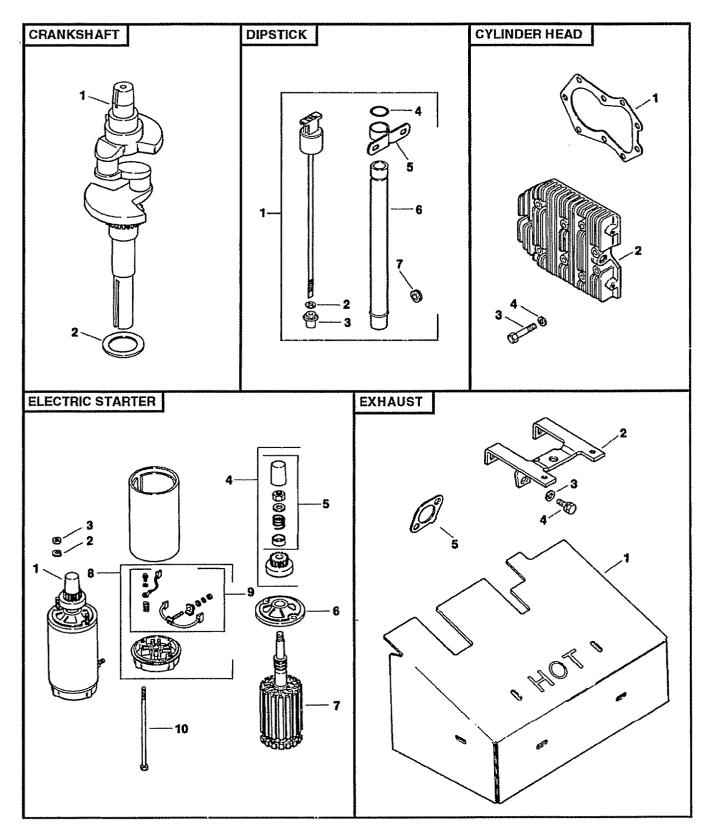
#### **KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556**

CRANKCASE		CARBURETO	R
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 0 2 52 755 9	1 Kit, Manifold (Includes Key Numbers 3 thru 8)
4 52 016 05 5 52 031 01 6 52 316 06 7 52 755 50 8 52 072 12	(Includes Key Numbers 4 thru 6) Valve, Exhaust Insert, Valve Seat (2) Guide, Valve (2) Kit, Oil Relief Step Stud 5/16-18 x 3/4,	3 52 164 1 4 X-21-1 5 X-6-29 6 X-75-23 7 235778	5 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. Clamp, Cable (2)
9 25 086 12	3/8-16 x 5/8, 2" Long (12) Screw, Hex Flange 5/16-18 x 2 (2)	8 X-67-97	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	Ring, Retaining Shaft, Governor Bearing, Sleeve, Standard (2) Bearing, Sleeve .010" (2)	9 X-352-37 10 25 155 0 11 52 853 2	7 Stud 5/16-18 x 1 (2) 2 Connector, Hose
52 030 12 13 25 086 10	Bearing, Sleeve .020" (2) Screw, Hex Flange	12 271030 13 52 053 5	Gasket, Carburetor Carburetor Assembly (Information
14 25 086 13	5/16-18 x 1-1/2 (3) Screw, Hex Flange	14 05 041 0	Only - Not Available Separately) (Includes Key Numbers 18 thru 35)
15 52 141 02 16 52 139 08 17 25 086 11	3/8-16 x 3-5/8 (2) O-Ring Plug Screw, Hex Flange	14 25 041 0 15 X-77-2 16 232867 17 X-67-62	6 Gasket, Air Cleaner Nut 5/16 (2) Strap, Lifting Screw, Hex Washer Head 1/4-20 x 3/4
18 52 032 10 19 82 755 17	5/16-18 x 3-1/2 (8) Seal, Oil, Front Kit, #2 Cylinder Barrel	18 25 086 2 19 25 146 0	7 Screw, Throttle and Choke Plate (4) 3 Plate, Choke
20	(Includes Key Numbers 4 thru 6) Crankcase (Service with Short Block, Part Number 82 522 30)	20 52 144 1 21 25 368 0 22 25 089 0 23 25 089 0 25 25 089 0 26 25 368 0 27 52 090 1 28 25 089 0 29 25 194 0 30 25 146 0 31 25 041 0 32 25 757 0 33 25 104 0 34 25 041 0 35 25 100 0	1 Needle, Idle Fuel Adjust 2 Spring, Idle, Fuel 6 Screw, Idle Speed Adjust 4 Spring, Idle Speed 2 Spring, Main Fuel 3 Needle, Main Fuel 3 Lever, Choke 3 Spring, Choke, Friction 1 Ball, Choke, Friction 2 Plate, Throttle 4 Gasket, Bowl 9 Kit, Float 1 Bowl, Fuel 3 Gasket, Bowl Retainer Screw 5 Screw, Bowl Retainer

-- 25 757 11 Kit, Carburetor Repair

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

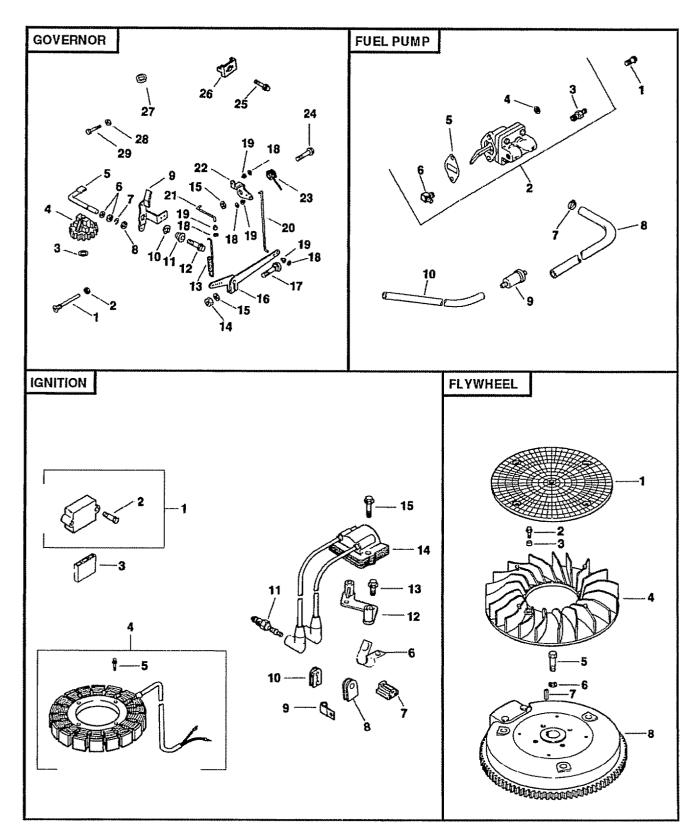
## 18 HP 44" TRACTOR - MODEL NUMBER 917.255980 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556



#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

CRANKSHAFT		ELECTRIC STARTER			
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION		
1 52 014 93 2 52 468 03 52 468 04 52 468 05	Crankshaft Washer, Thrust .119/.122 (A.R.) Washer, Thrust .128/.131 Washer, Thrust .137/.140 (A.R.)	1 52 098 09 2 X-20-1 3 X-81-1 4 52 755 05 5 52 755 08	Starter Assembly (Includes Key Numbers 4 thru 10) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive (Includes Key Number 5) Kit, Drive Parts		
DIPSTICK		6 52 227 01 7 52 170 02	Cap, Drive End Armature		
KEY PART NO. NO.	DESCRIPTION	8 52 227 09 9 52 755 15	Cap, Commutator End (Includes Key Number 9) Kit, Brush		
1 52 038 14	Dipstick Assembly	10 52 211 01	Bolt, Thru (2)		
2 X-25-44 3 52 032 14 4 41 153 01 5 52 126 11 6 52 123 20	(Includes Key Numbers 2 and 3) Washer, Plain 5/16 Seal, Rubber O-Ring Bracket, Oil Tube Support Tube, Oil Fill 11-7/8	NOT ILLUSTRATEI 52 357 01 25 450 03	O Lubricant, Starter Tag, Caution		
7 47 139 01	Plug, Hex, Countersunk 3/4 N.P.T.F.	EXHAUST			
CYLINDER HEAD		KEY PART NO. NO.	DESCRIPTION		
KEY PART NO. NO.	DESCRIPTION	1 52 281 31 2 52 126 12 3 X-25-72	Duct, Heat Shield Bracket Washer, Plain (3)		
1 52 041 20 2 52 015 08 3 220534 4 41 086 02	Gasket, Head (2) Cylinder Head (2) Washer, Plain 5/16 (18) Screw, Hex Head 5/16-18 x 1-1/2 (18)	4 52 086 11 5 52 041 14 NOTE: All compon 1 inch = 25	Screw 1/4-20 x 5/8 (3) Gasket, Exhaust (2) ent dimensions given in U.S. inches 4 mm		

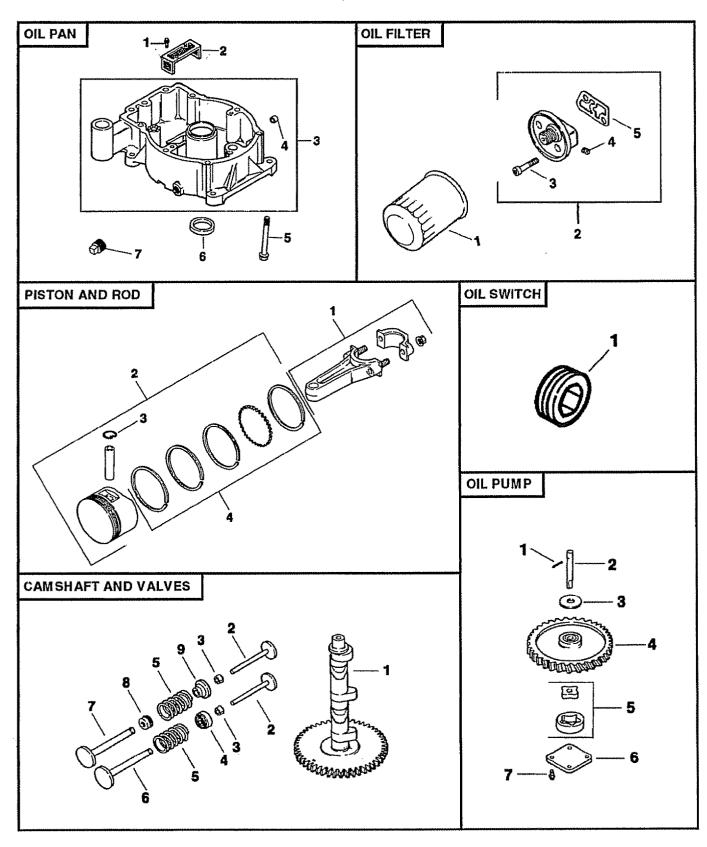
## 18 HP 44" TRACTOR - MODEL NUMBER 917.255980 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER 58556



#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

FLYWHEEL		FUEL PUMP	
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 25 162 0		1 47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)
2 25 086 2	1/4-20 x 5/8 (4)	2 52 559 01	Pump, Fuel Assembly
3 25 112 0 4 25 157 0	1 Fan	3 X-380-1 4 X-25-63	(Includes Key Numbers 3 thru 6) Connector, Straight Washer, Plain 1/4 (2)
5 25 086 2 6 52 468 1	5 Washer, Plain	5 25 041 09	Gasket, Fuel Pump
7 X-286-17 8 52 025 3		6 25 155 02 7 X-426-9	Connector, Hose Clamp, Hose (4)
	•	8 52 353 18 9 25 050 03	Line, Fuel Filter, Fuel
GOVERNOR		10 41 353 14	Hose, Fuel
KEY PART NO. NO.	DESCRIPTION	IGNITION	
	Din Covernor Stop	KEY PART	DESCRIPTION
1 231355 2 X-25-12	Pin, Governor Stop Washer, <u>P</u> lain 1/4	NO. NO.	DESCRIPTION
3 237022 4 A-235743	Washer, Thrust 3-S Kit, Governor Gear	1 25 755 03	Kit, Rectifier-Regulator
5 52 078 0	4 Shaft, Governor Cross	2 X-132-5	(Includes Key Number 2) Screw, Hex Cap 1/4-20 x 5/8 (2)
6 X-25-102 7 X-269-28	Retainer, Governor	3 236602	Connector
8 X-25-63 9 52 090 2	Washer, Plain 1/4  Lever, Speed Control	4 237878 5 X-67-51	Kit, Stator (Includes Key Number 5) Screw, Hex Cap #10-24 x 3/4 (2)
10 277341	Washer, Tension	6 210281	Clip
11 52 158 0		7 236473 8 220297	Connector Grommet
12 25 086 1	5 Screw, Hex Washer Head 1/4-20 x 1	8 220297 9 47 154 01	Clamp
13 52 089 0	7 Spring, Governor	10 52 313 02	Grommet
14 X-81-1	Nut, Hex 1/4-20	11 52 132 02 12 52 126 08	Spark Plug (2) Bracket, Module
15 X-25-72 16 52 186 0	Washer, Plain 1/4 (2) 9 Arm, Governor	12 52 126 08 13 25 086 15	Screw, Hex Washer Head
17 52 211 0	4 Screw, Round Head, Square Neck		1/4-20 x 1 (2)
10 05 141 0	1/4-20 x 1	14 52 584 02 15 25 086 16	Module, Ignition Screw, Hex Washer Head
18 25 141 0 19 25 158 0		15 25 086 16	1/4-20 x 7/8 (2)
20 52 079 0	7 Linkage, Governor		• •
21 52 079 0	6 Linkage, Throttle	NOT ILLUSTRAT	ED
22 52 090 1 23 52 089 0	4 Lever, Throttle 8 Spring, Torsion	47 518 33	Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push
24 25 086 2	1 Screw, Hex Washer Head		On Tab Terminals)
25 X-67-97	1/4-20 x 5/8 Screw, Hex Washer Head	52 518 17	Lead, White, Module To Connector (12-1/2", 14 Gauge, Insulated Push
26 235778	#10-24 x 3/8 (3) Clamp, Cable (3)		On Tab, Uninsulated Push On Tab Terminals)
27 25 431 0	1 Bushing, Speed Control Lever		•
28 X-70-3 29 52 086 0	Nut, Hex #10-32	NOTE: All compo 1 inch = 2	onent dimensions given in U.S. inches 5.4 mm

#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

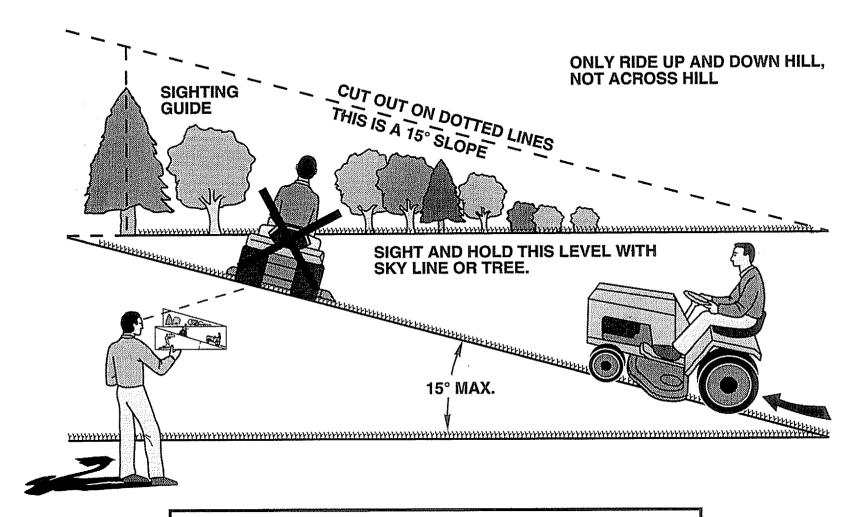


#### 18 HP 44" TRACTOR - MODEL NUMBER 917.255980

OIL F	PAN		LOW OIL PRESSURE SWITCH			
KEY NO.	PART NO.	DESCRIPTION	KEY 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.	
3 4	52 050 03 52 199 08 X-702-15	Filter, Oil Pickup Oil Pan (Includes Key Number 4) Plug, Cup 5/16		/ISHAFT & VA		
	52 086 12	Screw, Hex Washer Head 5/16-18 x 1-1/4 (9)	KEY NO.		DESCRIPTION	
	52 032 10 X-75-10	Seal, Oil, Rear 1/2 Plug, Square Head 3/8 N.P.T.F. (2)	1 2	52 012 09 52 019 03	Camshaft Tappet (4)	
OIL F	ILTER		4	41 755 10 52 413 01	Kit, Retainer (4) Rotator, Exhaust Valve (2)	
KEY NO.	PART NO.	DESCRIPTION	7	25 089 01 52 016 05 52 017 08 52 032 13	Spring, Valve (4) Valve, Exhaust (2) Valve, Intake (2) Seal, Intake Valve Stem (2)	
•	52 050 02 82 755 23	Oil Filter Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5)	9	230011	Retainer, Intake Valve (2)	
_						
3	X-55-15	Screw, Hex Socket Head 5/16-18 x 1-1/4 (2)	OIL	PUMP		
4	X-75-23	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F.	OIL KEY NO.	PART	DESCRIPTION	
4		5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk	KEY NO.	PART NO. X-280-25	Pin, Roll	
4 5	X-75-23	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F.	KEY NO. 1 2 3	PART NO. X-280-25 52 144 05 52 422 01	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2)	
4 5	X-75-23 52 041 16	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F.	KEY NO. 1 2 3	PART NO. X-280-25 52 144 05 52 422 01 52 043 05 52 393 09 52 096 03	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2) Gear, Oil Pump Rotor Set Cover, Oil Pump	
4 5 PISTORY NO.	X-75-23 52 041 16 ON & ROD PART NO. 52 067 67	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F. Gasket, Oil Filter  DESCRIPTION  Connecting Rod, Standard (2)	KEY NO. 1 2 3 4 5 6	PART NO. X-280-25 52 144 05 52 422 01 52 043 05 52 393 09	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2) Gear, Oil Pump Rotor Set	
4 5 PISTO KEY NO. 1 2	X-75-23 52 041 16 ON & ROD PART NO. 52 067 67 52 067 68 52 874 11	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F. Gasket, Oil Filter  DESCRIPTION  Connecting Rod, Standard (2) Connecting Rod .010" (2) Piston with Ring Set, Standard (2)	KEY NO. 1 2 3 4 5 6 7	PART NO. X-280-25 52 144 05 52 422 01 52 043 05 52 393 09 52 096 03	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2) Gear, Oil Pump Rotor Set Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4)	
4 5 PISTO KEY NO. 1 2	X-75-23 52 041 16 ON & ROD PART NO. 52 067 67 52 067 68 52 874 11 52 874 12 52 874 13 52 874 14	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F. Gasket, Oil Filter  DESCRIPTION  Connecting Rod, Standard (2) Connecting Rod .010" (2) Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2) Piston with Ring Set .010" (2) Piston with Ring Set .020" (2)	KEY NO. 1 2 3 4 5 6 7	PART NO. X-280-25 52 144 05 52 422 01 52 043 05 52 393 09 52 096 03 X-67-64 ILLUSTRATE	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2) Gear, Oil Pump Rotor Set Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4)	
4 5 PISTO KEY NO. 1 2	X-75-23 52 041 16 ON & ROD PART NO. 52 067 67 52 067 68 52 874 11 52 874 12 52 874 13	5/16-18 x 1-1/4 (2) Plug, Hex, Countersunk 1/8 N.P.T.F. Gasket, Oil Filter  DESCRIPTION  Connecting Rod, Standard (2) Connecting Rod .010" (2) Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2) Piston with Ring Set .010" (2)	KEY NO.  1 2 3 4 5 6 7 NOT	PART NO. X-280-25 52 144 05 52 422 01 52 043 05 52 393 09 52 096 03 X-67-64 ILLUSTRATE 82 522 30 52 755 94	Pin, Roll Shaft, Oil Pump Spacer, Shim (A.R., Maximum of 2) Gear, Oil Pump Rotor Set Cover, Oil Pump Screw, Hex Washer Head #10-32 x 7/16 (4)  Short Block	

## **SERVICE NOTES**

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

## SEARS

# OWNER'S MANUAL

MODEL NO. 917.255980

## HOW TO ORDER REPAIR PARTS

# **CRAFTSMAN®**

### 18.0 HP TWIN CYLINDER ELECTRIC START 44" MOWER 6 SPEED TRANSAXLE GARDEN TRACTOR

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

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

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

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

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

- PRODUCT TRACTOR
- MODEL NUMBER 917.255980
- ENGINE MODEL NO. MV18S-58556
- 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 sell.

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