SEARS

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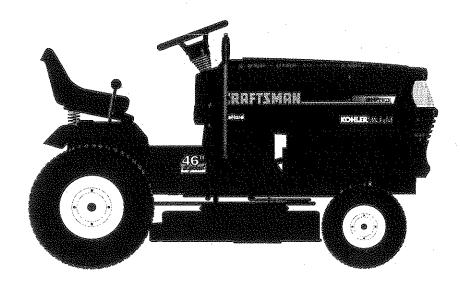
MODEL NUMBER 917.256700 OWNER'S MANUAL

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



same as 944.606281

same as 944-606281



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

FOR CONSUMER ASSISTANCE HOT LINE, CALL THIS TOLL FREE NUMBER: 1-800-659-5917

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

# SAFETY RULES



Safe Operation Practices for Ride-On Mowers



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

#### GENERAL OPERATION

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

#### II. SLOPE OPERATION

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

## DO:

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

## DO NOT:

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

#### III. CHILDREN

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

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

#### IV. SERVICE

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



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



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





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

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

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

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

MODEL NUMBER	917.256700
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## MAINTENANCE AGREEMENT

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

# **CUSTOMER RESPONSIBILITIES**

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

**WARNING:** This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped

## PRODUCT SPECIFICATIONS

<u> FRODUCI SEECI</u>	
HORSEPOWER:	18.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .025")	CHAMPION RV17YC
VALVE CLEARANCE:	INTAKE: .003"006" EXHAUST: .013"016"
GROUND SPEED (MPH):	FORWARD:  1st 1.1  2nd 1.5  3rd 2.3  4th 3.5  5th 4.5  6th 5.7  REVERSE: 1.8
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	30-35 FT. LBS.

with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

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

# LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

## LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

# **TABLE OF CONTENTS**

SAFETY RULES		MAINTENANCE S	SCHEDULE	***************************************
RODUCT SPECIFICATIONS		SERVICE AND A	DJUSTNENTS	20-2!
SUSTOMER RESPONSIBILITIES	3. 16-19	STORAGE		
VARRANTY			TNG	
TACTOR ACCESSORIES		REDAIR DARTS.	TRACTOR	30-4
	* 2000 marainean and a 2000 maraine ma ** 1000 maraine	hermin i panto.	ENGINE	AO E
SSEMBLY		CINAT MIATE		40°J
PERATION		AH IS OHDEHI	IG/SERVICEBAC	K COVE
	•		The state of the s	
NDEX		. ,		
100 800 60000000 meadefrons was corr				
A	Engine:		Operating Mower	14
ccessories 5	Air Filter		Options:	
	Air Screen		Accessories	F
Adjustments: Brake23	Cooling Fins		Spark Arrester	3,38
	Oil Change		•	
Carburetor 25	Oil Level			
Mowe Front-To-Back21	Oil Type		Davidson Double	40.40
Front-To-Back21	Preparation	14	Parking Brake	
Side-To-Side	Repair Parts	48-57	Parts Bag	6
Throttle Control Cable	Starting		Parts, Replacement/Repair	
ir Filter, Engine18	Storage			
ir Screen, Engine19	<u> </u>		Product Specifications	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		,	84098-	
ssembly7-10	•		R	
	Filter:	40	Repair Parts	30-47
<b>.</b>	Air Filter			
attery:	Fuel	19	S	
Charging 8	Fuel:		•	
Cleaning17	Туре		Safety Rules	
Starting with Weak Battery 24	Storage		Seat	8
Storage	Fuse	24	Service and Adjustments	
Terminals16	1 430		Carburetor	
	- 21		Fuse	
elt:	. H		Hood Removal/Installation	
Motion Drive	Hood Removal/Installation	n 24		1
Removal/Replacement 23	4		Motion Drive Belt	. 00
Mower Belt(s)	<u>,</u>		Removal/Replacement	
Removal/Řeplacement 22	Esses	00	Mower Belt(s)	0.0
lade:	Leveling Mower Deck	20	Removal/Replacement	
Sharpening17	Lubrication:		Mower Adjustment	0.4
Replacement 17	Chart	16	Front-to-Back	21
rake Adjustment22	Engine	18	Side-to-Side	
rake Adjustment	Ü		Mower Removal/Installation	
en.	<b>7</b> 3		Tire Care	
C		10	Slope Guide Sheet	59
arburetor Adjustment 25	Maintenance Schedule	10	Spark Plug(s)	
ontrols, Tractor 11	Mower:	•		
	Adjustment, Front-to-	-Back 21	Specifications	
ustomer Responsibilities 16-19	Adjustment, Side-to-s	Side 20	Starting the Engine	14-1
Engine:	Blade Replacement .	17	Steering Wheel	7,23
Air Filter 18	Blade Sharpening	17	Stopping the Tractor	
Air Screen18	Cutting Height	13	,, <del>-</del>	
Cooling Fins 18	Installation	20	Storage	21
Engine Oil 14,18	Operation			
Fuel Filter 19	Removal		T	
Spark Plug(s) 19			Throttle Control Cable Adjustm	nent 2
Tractor:	Mowing Tips		<del>-</del>	
Battery 17	Muffler		Tires	
Blade 17	Spark Arrester	3,38	Troubleshooting Chart	27-28
Lubrication Chart16			Transaxle	
Maintenance Schedule16	O			
Tire Care 8,17,23	Oil:		<i>in</i>	
Transaxle 18	Cold Weather Condit	ione 1/110	0.4	
utting Height, Mower13		·	Warranty	
aming congress morror minimum to	Engine		Wiring Diagram	3
geon	Storage		Wiring Schematic	
States Superior	Operation	11-15	AAHIIIA OCHOHIIGEO	Zi
lectrical:				
Tectrical: Interlocks and Relays24				
Electrical: Interlocks and Relays				

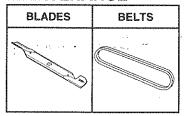
# **ACCESSORIES AND ATTACHMENTS**

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

## ENGINE

# SPARK PLUG GAS CAN ENGINE OIL FUEL STABILIZER AIR FILTER

## MAINTENANCE



## **PERFORMANCE**

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

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

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

**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 CLOSE-OUT PLATE 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. See "MOWER" in the Repair Parts section of this manual.

**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, 48-inch wide blade clears 42-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 decicers and sand.

SWEEPERS let you collect grass clippings and leaves.

TILLER has 5 hp engine and 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! Optional accessories 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.

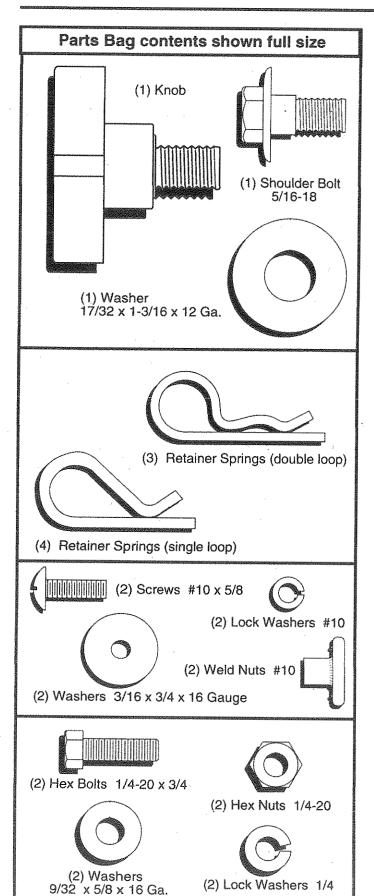
VACS for powerful collection of heavy grass clippings and leaves.

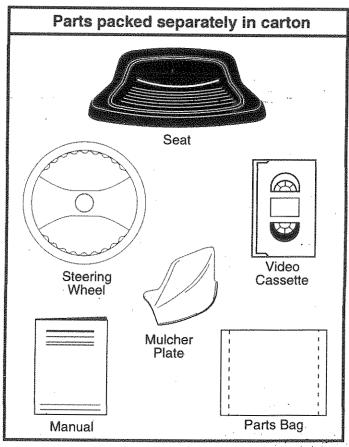
Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

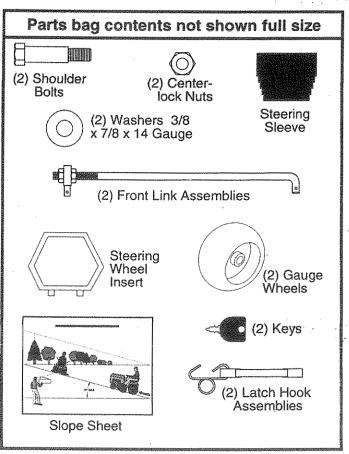
**WEIGHT BRACKET** for drawbar for snow removal applications. Uses (1) 55 lb. weight.

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

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

(2) 7/16" wrenches

3/4" Socket w/drive ratchet

(1) 1/2" wrench

Tire pressure gauge

(1) 9/16" wrench

Phillips Screwdriver

Utility knife

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

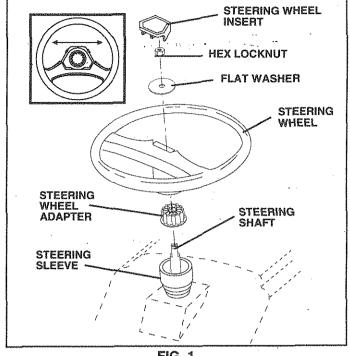
- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- Check for any additional loose parts or cartons and remove.

# **BEFORE ROLLING TRACTOR OFF SKID**

# ATTACH STEERING WHEEL (See Fig. 1)

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

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



#### FIG. 1

# TO ROLL TRACTOR OFF SKID (See Fig. 7)

- Raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor backwards off skid.
- Remove banding holding discharge guard up against tractor.

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



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

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

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

Use terminal access doors for:

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

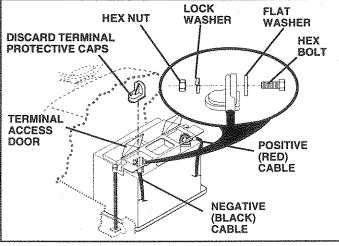


FIG. 2

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

Adjust seat before tightening adjustment knob.

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

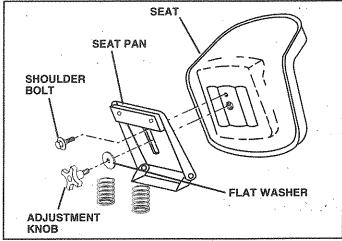


FIG. 3

## **CHECK TIRE PRESSURE**

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

#### **CHECK BRAKE SYSTEM**

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

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

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

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

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

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

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

## CHECK DECK LEVELNESS

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

# CHECK FOR PROPER POSITION OF ALL **RFITS**

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

FRONT

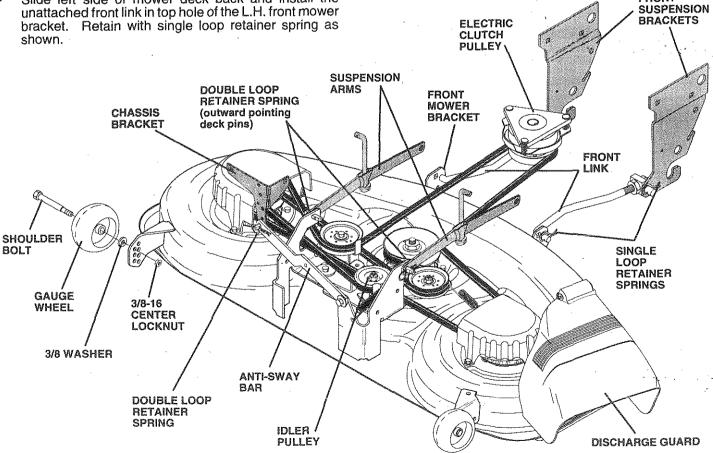


FIG. 4

# **INSTALL MULCHER PLATE (See Figs. 5 and 6)**

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

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

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



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

# TO CONVERT TO BAGGING OR DISCHARGING

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

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

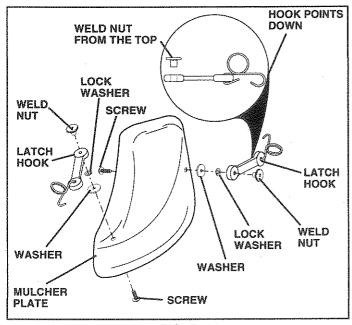


FIG. 5

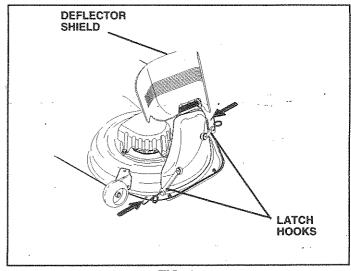


FIG. 6

# ✓ CHECKLIST

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

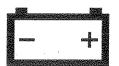
#### PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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



**BATTERY** 



CAUTION OR WARNING



**REVERSE** 



**FORWARD** 



FAST



SLOW



ENGINE ON



**ENGINE OFF** 



OIL PRESSURE



CLUTCH



LIGHTS ON



LIGHTS OFF



**FUEL** 



CHOKE



MOWER HEIGHT



DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



**UNLOCKED** 



MOWER LIFT



**REVERSE** 



NEUTRAL



HIGH



LOW



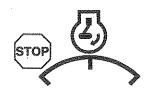
PARKING BRAKE



ATTACHMENT CLUTCH ENGAGED



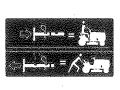
ATTACHMENT CLUTCH DISENGAGED



**IGNITION** 



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL (Hydro Models only)

## **KNOW YOUR TRACTOR**

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

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

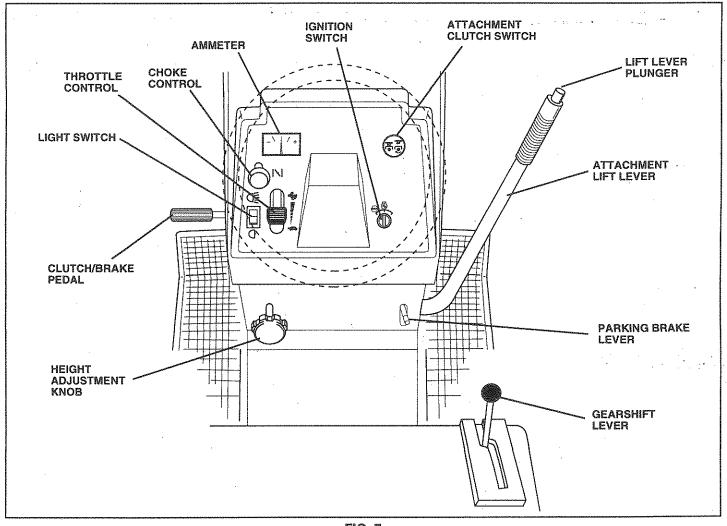


FIG. 7

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

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

ATTACHMENT 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.

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

LIGHT SWITCH - Turns the headlights on and off.

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

**IGNITION SWITCH** - Used to start and stop the engine. **PARKING BRAKE LEVER** - Locks clutch/brake pedal into the brake position.

**THROTTLE CONTROL** - Used to control engine speed. **LIFT LEVER PLUNGER** - Used to release attachment lift lever when changing its position.

**CHOKE CONTROL** - Used when starting a cold engine. **AMMETER** - Indicates charging (+) or discharging (-) of battery.



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

## HOW TO USE YOUR TRACTOR

# TO SET PARKING BRAKE (See Fig. 8)

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

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

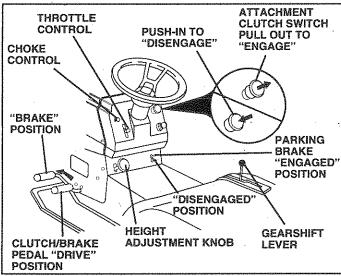


FIG. 8

# STOPPING (See Fig. 8)

**MOWER BLADES -**

 Move attachment clutch switch to "DISENGAGED" position.

# **GROUND DRIVE -**

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

#### **ENGINE** -

Move throttle control to slow ( ) position.

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

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

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



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

# TO USE THROTTLE CONTROL (See Fig. 8)

Always operate engine at full throttle.

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

## TO USE CHOKE CONTROL (See Fig. 8)

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

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

# TO MOVE FORWARD AND BACKWARD (See Fig. 8)

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. 8)

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

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

The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

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

Adjust gauge wheels with tractor on a flat level surface.

 Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).

- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

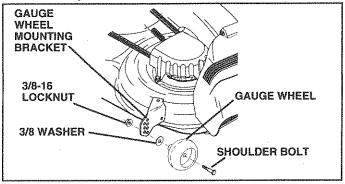


FIG. 9

# TO OPERATE MOWER (See Fig. 10)

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

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



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

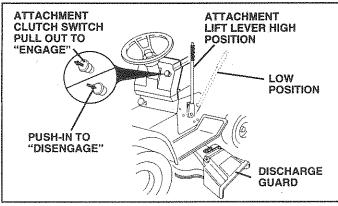


FIG. 10

#### TO OPERATE ON HILLS



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

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

- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly

## TO TRANSPORT

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

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

# BEFORE STARTING THE ENGINE

# **CHECK ENGINE OIL LEVEL (See Fig. 17)**

- 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.

## ADD GASOLINE

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

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

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



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

# TO START ENGINE (See Fig. 8)

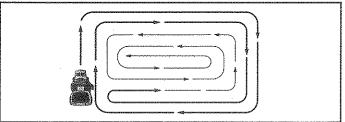
When starting engine for the first time or if engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- 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 (|\scrtal{\singla}\single}}}}}}}}}}}}}}}}} \rightilde{\sintilde{\sintilde{\sintilde{\sinthintyred{\sintilde{\sintil\sintilde{\sintilde{\sintilde{\sintility}}}}}}}}}}}}}}}}}}}}
- Move throttle control to midway between fast (\*) and slow (\*) positions.
- Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to fast (\*) position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to fast (�) position.
- Allow engine to warm up for a few minutes before engaging drive or attachments.

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

## **MOWING TIPS**

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 11).



- 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.

#### **MULCHING MOWING TIPS**

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action.
   The best time to mow your lawn is the early afternoon.
   At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 12). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

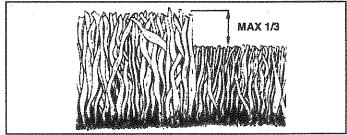


FIG. 12

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

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R	Sharpen/Replace Mower Blades				4					W.C. C.				
A	Lubrication Chart				V					MANAGE .				
Ť	Check Battery Level/Recharge				<b>6</b>					Silverson				
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N	Clean Engine Cooling Fins						<b>2</b>			No.				
E	Replace Spark Plug						<b>B</b>	8		Widelean				
	Replace Air Filter Paper Cartridge						<b>2</b> 2			NOTE AND THE PERSON				
	Replace Fuel Filter							2		WATER THE				

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions.
- 3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when mowing in sandy soil.

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

# GENERAL RECOMMENDATIONS

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

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

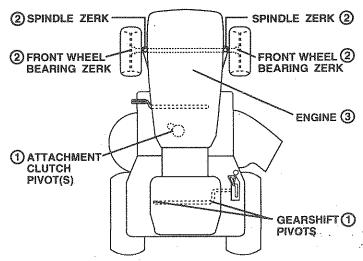
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

#### BEFORE EACH USE

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

#### **LUBRICATION CHART**



- (1) SAE 30 OR 10W30 MOTOR OIL
- (2) GENERAL PURPOSE GREASE
- (3) REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

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.

# 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. 13)**

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

IMPORTANT: BLADEBOLT IS GRADE 8 HEAT TREATED.

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

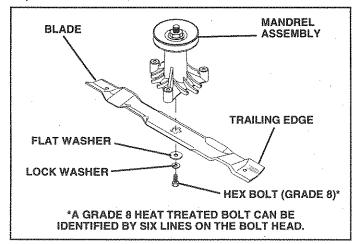


FIG. 13

# TO SHARPEN BLADE (See Fig. 14)

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

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

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

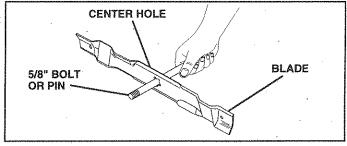


FIG. 14

## BATTERY

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

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

### TO CLEAN BATTERY AND TERMINALS

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

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- 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 "CONNECT 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.

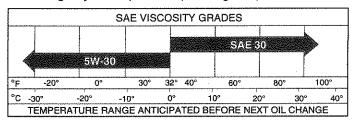
## TRANSAXLE COOLING

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

## ENGINE

## LUBRICATION

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



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

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

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

#### TO CHANGE ENGINE OIL (See Fig. 15)

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

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

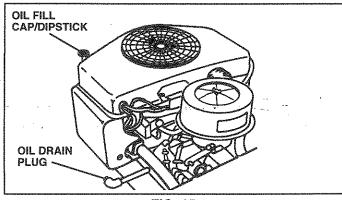


FIG. 15

# AIR FILTER (See Fig. 16)

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.

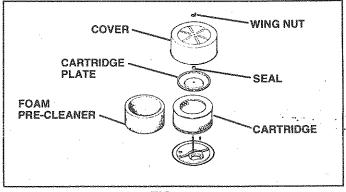


FIG. 16

# CLEAN AIR SCREEN (See Fig. 17)

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

# **ENGINE COOLING FINS (See Fig: 17)**

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

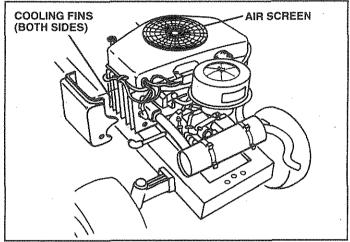


FIG. 17

## 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. 18)

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.

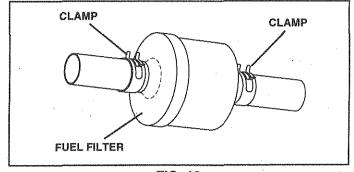


FIG. 18

## 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 kev.

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

# TO REMOVE MOWER (See Fig. 19)

- 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

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

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 1/8".

Recheck measurements after adjusting.

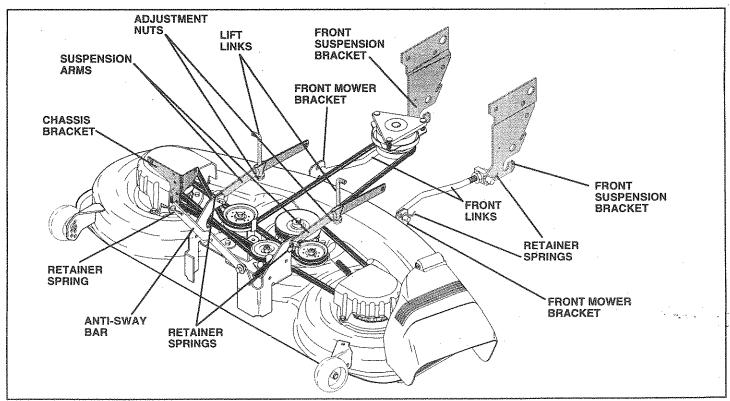


FIG. 19

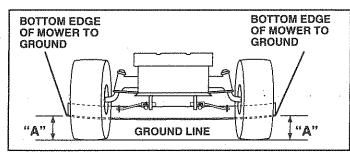


FIG. 20

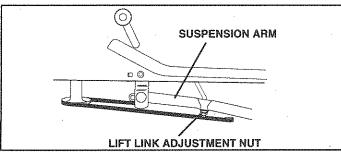


FIG. 21

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/4" to 3/4" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "D" directly in front 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. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nuts "F" against trunnion on both front links.

- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.
- Recheck side-to-side adjustment.

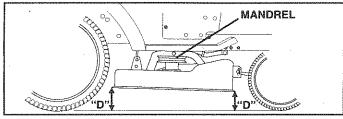


FIG. 22

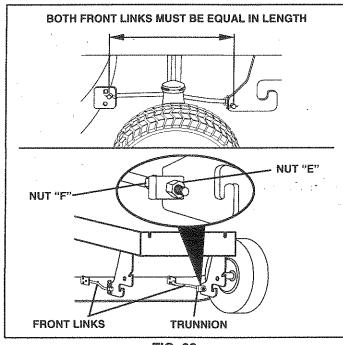


FIG. 23

# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 24)

Park the tractor on level surface. Engage parking brake.

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

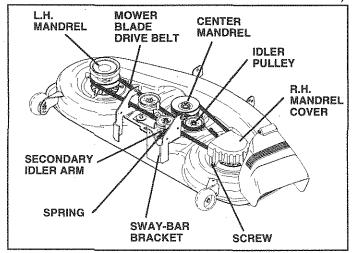


FIG. 24

# TO ADJUST ATTACHMENT CLUTCH (See Fig. 25)

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

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

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

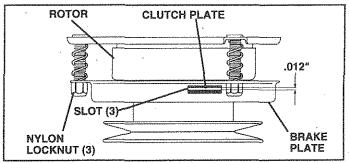


FIG. 25

# TO ADJUST BRAKE (See Fig. 26)

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

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

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

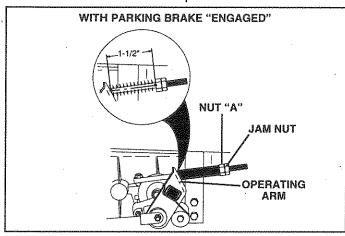


FIG. 26

# TO REPLACE MOTION DRIVE BELT (See Fig. 27)

Park the tractor on level surface. Engage parking brake. For assistance, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Disconnect clutch wire harness.
- · Remove clutch locator.
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull beit toward front of tractor and remove downwards from around electric clutch.
- Install new belt by reversing above procedure.

IMPORTANT: MAKÉ SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS AND ELECTRIC CLUTCH WIRE CONNECTION IS SECURE.

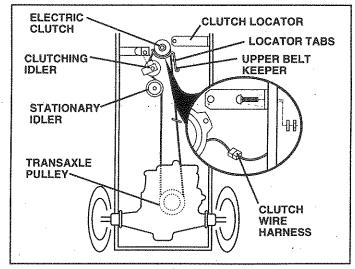


FIG. 27

## 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/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

# TO REMOVE WHEEL FOR REPAIRS (See Fig. 28)

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
- Replace washers and snap retaining ring securely in axle groove.
- Replace axle cover.

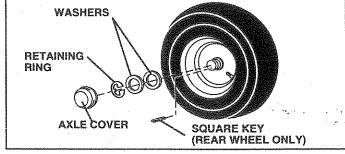


FIG. 28

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 29)



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

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

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

#### TO ATTACH JUMPER CABLES -

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

#### TO REMOVE CABLES, REVERSE ORDER -

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

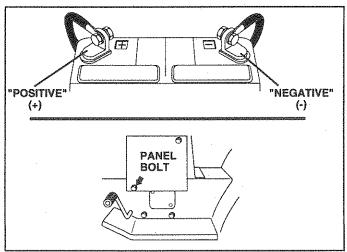


FIG. 29

## TO REPLACE HEADLIGHT BULB

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

## INTERLOCKS AND RELAYS

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

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

# TO REPLACE FUSE

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

# TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 30)

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

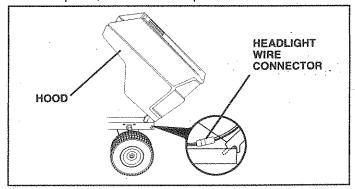


FIG. 30

## ENGINE

# TO ADJUST THROTTLE CONTROL CABLE (See Figs. 31 & 32)

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 (4) 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. 33)

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

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

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

## PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see 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.

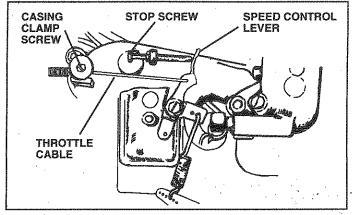


FIG. 31

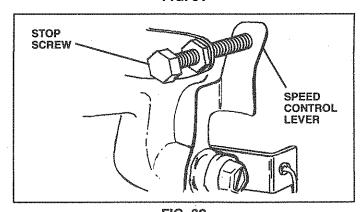
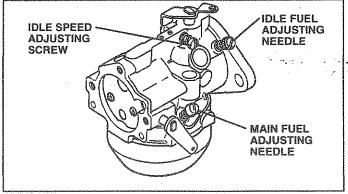


FIG. 32



# STORAGE

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



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

# TRACTOR

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

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

# BATTERY

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

### ENGINE

## **FUEL SYSTEM**

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

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

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

## **ENGINE OIL**

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

#### **CYLINDERS**

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

## OTHER

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

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

# TROUBLESHOOTING POINTS

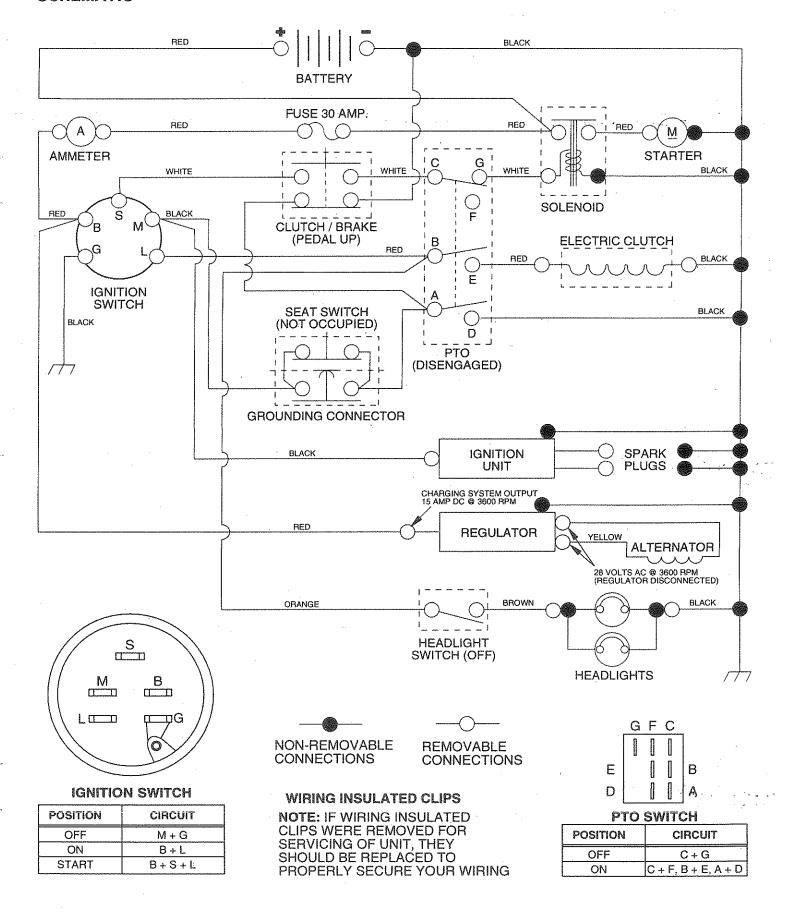
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel.  8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	<ol> <li>Fill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

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION				
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.				
Poor cut - uneven	<ol> <li>Worn, bent or loose blade.</li> <li>Mower deck not level.</li> <li>Buildup of grass, leaves, and trash under mower.</li> <li>Bent blade mandrel.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> <li>Clean around mandrels to open vent holes.</li> </ol>				
Mower blades will not rotate	Obstruction in clutch mechanism.     Worn/damaged mower drive belt.     Frozen idler pulley.     Frozen blade mandrel.	Remove obstruction.     Replace mower drive belt.     Replace idler pulley.     Replace blade mandrel.				
Poor grass discharge	<ol> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</li> <li>Buildup of grass, leaves and trash under mower.</li> <li>Mower drive belt worn.</li> <li>Blades improperly installed.</li> <li>Improper blades used.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</li> <li>Clean underside of mower housing.</li> <li>Replace mower drive belt.</li> <li>Reinstall blades sharp edge down.</li> <li>Replace with blades listed in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ol>				
Headlight(s) not working (if so equipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.				
Battery will not charge	Bad battery cell(s).     Poor cable connections.     Faulty regulator (if so equipped).     Faulty alternator.	Replace battery.     Check/clean all connections.     Replace regulator.     Repiace 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.				

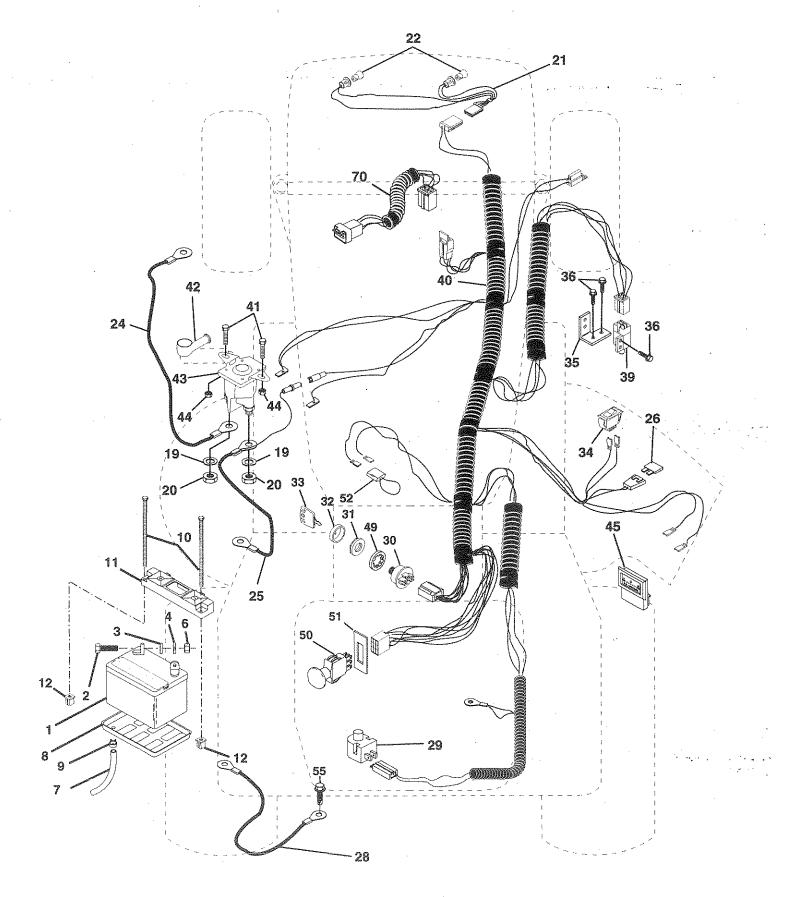
## TRACTOR - - MODEL NUMBER 917.256700

## SCHEMATIC



# **TRACTOR - - MODEL NUMBER 917.256700**

# ELECTRICAL



# **TRACTOR - - MODEL NUMBER 917.256700**

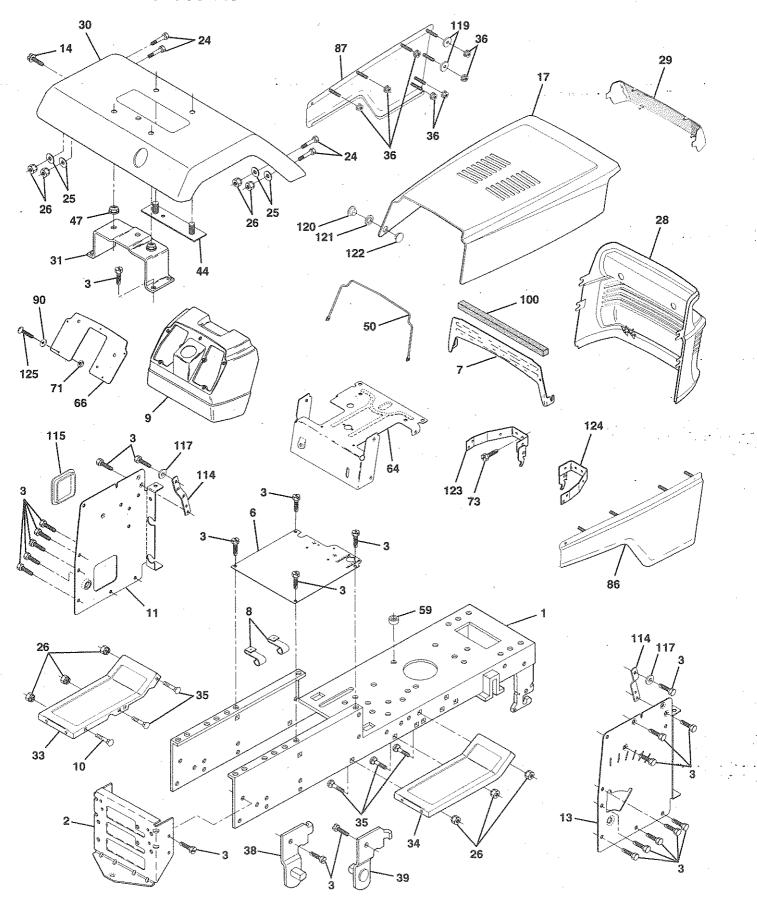
# ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
12346789011290122456890123456904123445901	146140 74760412 STD551025 STD551125 STD541025 7697J 7603J 109596X 145211 145209 145769 STD551125 73350400 136850 4152J 146148 4799J 108824X 145491 121305X	Battery Bolt, Hex 1/4-20 UNC x 3/4 Washer Washer Nut Tube, Plastic Tray, Battery Clamp, Hose Bolt, Btr. Frt 1/4-20 x 7.5 Holddown Btr. Dash Nut, Push Nylon 1/4" Battery Washer, Lock Nut, Hex, Jam 1/4-20 UNC Harness, Light Socket W/4152J Bulb, Light Cable, Battery Cable Battery Fuse Cable, Ground Switch, Plunger Switch, Ignition Nut, Ignition Cover, Ignition Switch Key, Ignition Switch, Light Bracket, Switch Screw Switch, Interlock Harness, Ignition Bolt Blk Fin. Hex 1/4-20 UNC x 1/2 Cover, Terminal Solenoid Nut, Keps Blk. Hex 1/4-20 UNC Ammeter Rectangular 15 Amp Washer Lock Int. Tooth 5/8 Switch PTO 3 Pot Red Delta Ring Retainer PTO Wire Loop Screw Thdrol 5/16-18 x 1/2 TYT
70	140427	Harness Engine Koh 18 TWN 15 AR

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

# **TRACTOR - - MODEL NUMBER 917.256700**

# **CHASSIS AND ENCLOSURES**



# **TRACTOR - - MODEL NUMBER 917.256700**

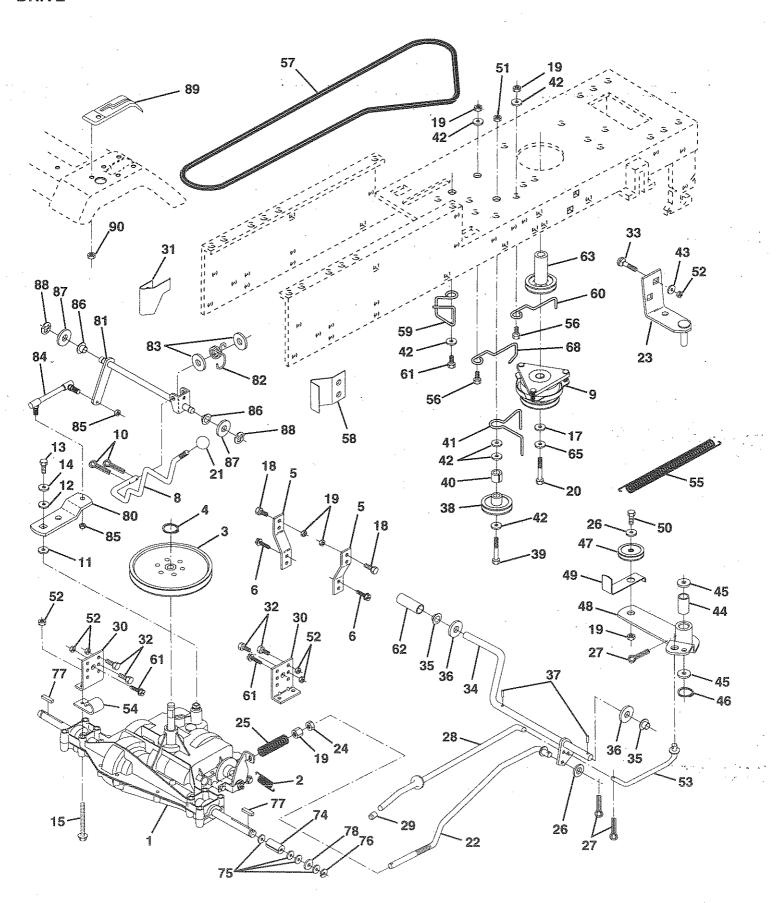
# **CHASSIS AND ENCLOSURES**

KEY NO.	PART NO.	DESCRIPTION
1236789011347425689013334568944709466736870004571212234	NO.  145501 140356 17490612 145206 145351 126471X 145203 72140608 145218 145217 17490608 136673X558 STD523710 19131312 STD541437 136373X428 136374 140002X558 137113 145244X558 145243X558 STD533707 108067X 139886 139887 140675 105531X 137304 110436X 150272 143485X014 73640400 17580408 136670X558 STD551025 105037X 145349 121794X 144283 19092016 137271 137269 137270 136814 136813 74180412	Chassis Drawbar Screw, Thdrol. 3/8-16 x 3/4 Type TT Saddle Shield Heat Kohler MV18 Clip, Fuel Line Dash, Plastic Bolt, Carriage 3/8-16 x 1 Panel, Dash, LH Panel, Dash, RH Screw, Thdrol. 3/8-16 x 1/2 Type TT Hood Assembly Bolt Washer 13/32 x 13/16 x 12 Gauge Nut Grill Lens, Bar, Clear Fender Bracket Assembly, Fender Footrest, LH Footrest, RH Bolt Nut, Pal Bracket Assembly, Pivot, LH Bracket Assembly, Pivot, RH Fender Strap Nut, Push, Nylon Rod, Support Hood Bushing, Snap, Split Dash, Lower Plate, Dash Nut Screw Tap Tite 1/4-20 x 1/2 Panel Assembly, LH Washer 17/64 Strip Foam 18" Bracket, Support, Dash Cover, Access Washer Serrated Disk 13/32 x 1 Washer 9/32 x 1-1/4 x 16 Ga. Rivet, Ratchet, Female Washer, Nylon Rivet, Ratchet, Female Washer, Nylon Rivet, Ratchet, Female Washer, Nylon Rivet, Rachet, Male Bracket Assembly, Front Pivot Hinge, LH Bracket Assembly, Front Pivot Hinge, LH Bracket Assembly, Front Pivot Hinge, RH Screw, Machine 1/4-20 x 3/4
	8022J	Plug Dash Blk 500 Dia E. Lift

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

# **TRACTOR - - MODEL NUMBER 917.256700**

# DRIVE



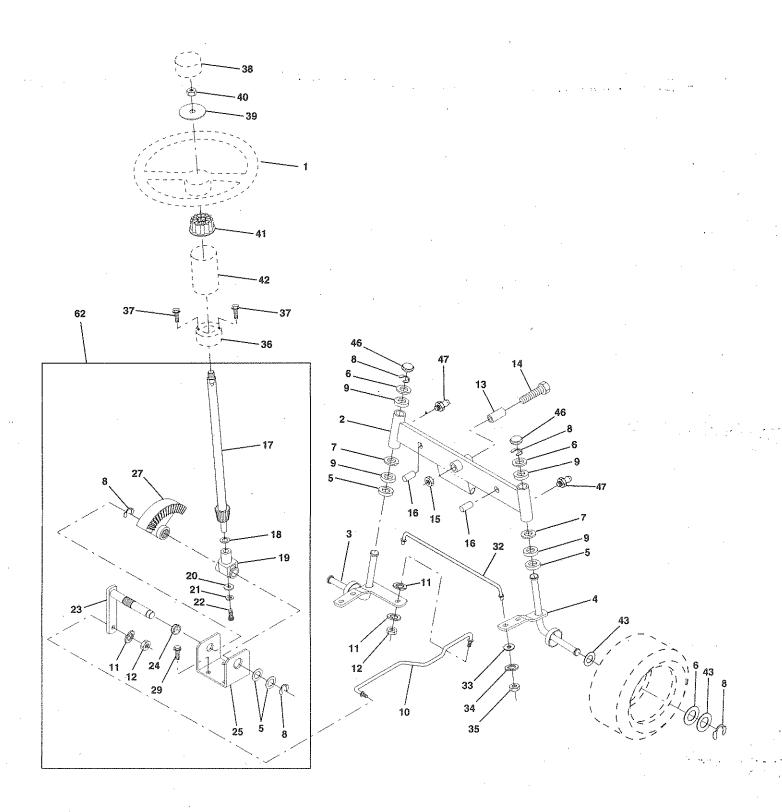
# **TRACTOR - - MODEL NUMBER 917.256700**

# DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	145607	Transaxle, Dana, Model Number 4360-97		19111012 105706X	Washer 11/32 x 5/8 x 12 Gauge Bearing
2	146682	Spring, Brake Return Pulley, Transaxle		110812X	Washer, Hardened
3	123666X			12000039	Ring, Clip
4	12000028	Ring, Retainer		127783	Pulley, Idler
	121250X	Strap, Torque		123789X	Arm, Idler
6	17490512	Screw, Hex, Washer, Thread Rolling 5/16-18 x 3/4		123205X STD523715	Retainer, Belt Bolt, Hex 3/8-16 x 1-1/2
8	141002		50 51	STD523713	Nut, Crownlock 3/8-16
9	137140	Rod, Shifter Clutch, Electric Pin, Cotter 1/8 x 1 Washer. Shift Plate	52	STD541431	Nut, Lock Hex w/lns 5/16-18
	STD561210	Pin, Cotter 1/8 x 1	53	105710X	Link, Clutch
11	105701X			2751R	Clip Line Fuel 13/32 Mtg Hole
	19151216	Washer 15/32 x 3/4 x 16 Ga.	55	105709X	Spring, Return, Clutch
	74550412	Bolt 1/4-28 UNF Gr. 8 w/Patch	56	74760620	Bolt, Fin. Hex 3/8-16 UNC x 1-1/4
	STD551125 74490544	Washer Lock Bolt, Hex Flghd 5/16-18 Gr. 5	IJ/	130801 127274X	V-Belt, Drive Keeper, Belt, Transaxle, R.H.
	126197X	Washer 15/32 x 1-3/4 x 1/4		140312	Retainer, Belt
	STD523710	Bolt		121218X	Keeper, Belt, Engine, LH
	STD541437	Locknut 3/8-16		17490612	Screw, Hex Washer Head, Thd.,
	71170768	Bolt, Hex 7/16-20 x 4-1/4			Roll. 3/8-16 x 3/4
21	106933X	Knob		8883R	Cover, Foot Pedal
22	130804	Rod, Brake Bracket Assembly, Clutch		140189	Pulley, Engine
23 24	137141 STD541237			STD551143 105730X	Washer, Lock Hvy Hlcl Spr 7/16 Belt Keeper, Engine
25	106888X	Spring, Rod, Brake		109502X	Spacer, Split
	STD551037	Washer 13/32 x 13/16 x 16 Gauge	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
27	STD561210	Pin, Cotter 1/8 x 3/4	76	12000001	E-Ring
28	145204	Rod, Brake, Park	77	123583X	Key Square
	124236X	Cap, Plunger	- 78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
30	130807	Washer 13/32 x 13/16 x 16 Gauge Pin, Cotter 1/8 x 3/4 Rod, Brake, Park Cap, Plunger Bracket, Transaxle, L.H. Keeper, Belt, Transaxle, L.H. Botl, Hex Hd. 5/16-18 UNC x 3/4 Bolt, Carriage 5/16-18 x 3/4 Shaft, Foot Pedal Bearing Nylon	80	131487	Shift Arm
	127275X 74760512	Reeper, Berr, Transaxie, L.m.	82	130933 122782V	Shaft, Assembly, Shifter Spring, Torsion
	72140506	Bolt Carriage 5/16-18 x 3/4	83	19171216	Washer 17/32 x 3/4 x 16 Gauge
	149001	Shaft Foot Pedal	84	132183	Rod, Tie
	120183X	Bearing Nylon	85	150360	Nut, Lock Center 1/4-28 Fnthd.
36	STD551062	Washer 21/32 x 1 x 16 Gauge	86	71208	Bushing, Rod, Steering
	STD571810	Pin,Roll 3/16 x 1		19212016	Washer 21/32 x 1-1/4 x 16 Gauge
	123674X	Idler, Flat		12000008	Ring, Klip
	STD523727	Bolt, Hex 3/8-16 x 2-3/4		139991 124346X	Console, 6 Speed Nut, Washer Head, Self-Thread 1/4
40 41	4470J 109070X	Spacer Keeper, Belt			
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	NOTE		ent dimensions given in U.S. inches
1 1000				1 inch = 25	.4 mm

# TRACTOR - - MODEL NUMBER 917.256700

# STEERING ASSEMBLY



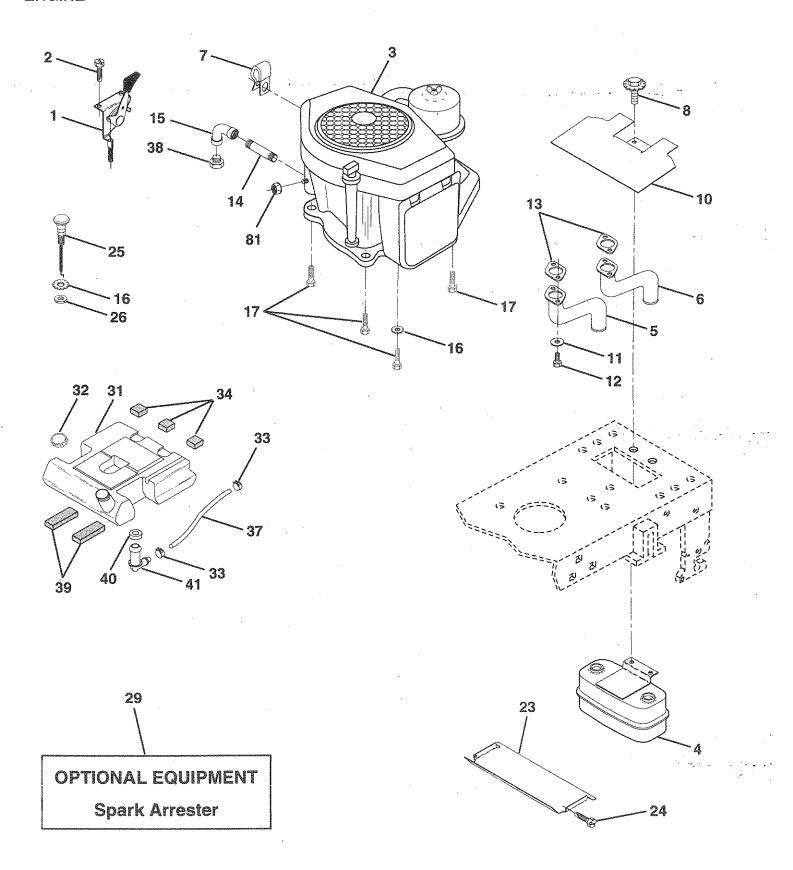
### **TRACTOR - - MODEL NUMBER 917.256700**

### STEERING ASSEMBLY

	KEY		DESCRIPTION
	NO. 12345678901123445 678901123445 678901123445 678901123445 678901123445 6789011234457922222222222222222222222222222222222	NO. 121472X 142033 135227 135228 6266H 121748X 19272016 12000029 3366R 130468 STD551137 73610600	Steering Wheel Axle Assembly, Front Spindle Assembly, LH Spindle Assembly, RH Bearing, Race, Thrust, Hardened Washer 25/32 x 1-5/8 x 16 Gauge Washer 27/32 x 1-1/4 x 16 Gauge Ring, Klip Bearing Link, Drag Washer, Lock Nut, Hex, Fin. 3/8-24 UNF Spacer, Bearing, Front Axle Bolt, Hex 5/8-11 UNC x 3-1/2 Locknut, Hex, Jam, w/Washer Insert 5/8-11 UNC Pin, Axle, Large 5/8 x 1.55/1.54 Shaft Assembly, Steering Washer, Thrust .515 x .750 x .033 Support, Shaft Washer, Shim 1/4 x 5/8 x .062 Washer Screw, Cap Sckt Hd Phos & Oil Shaft Assembly, Pittman Nyliner, Snap-In Bracket, Steering Gear, Sector Screw, Thdrol 3/8-16 x 3/4 Tie Rod Washer 11/32 x 3/4 x 16 Ga. Washer Lock Hvy Hllcl Spr. 5/16 Locknut 5/16-24 UNF Bushing, Steering Screw SLFTP #10-24 x 1/2 TT-B Insert, Cap, Steering Wheel Washer .53 x 2.25 x .160 Nut Adapter, Steering Wheel Column, Steering Washer 25/32 x 1-1/4 x 16 Gauge Cap, Spindle
_	47 62	6855M 149682	Fitting, Grease Kit, Steering Assembly

### TRACTOR - - MODEL NUMBER 917.256700

### ENGINE



### **TRACTOR - - MODEL NUMBER 917.256700**

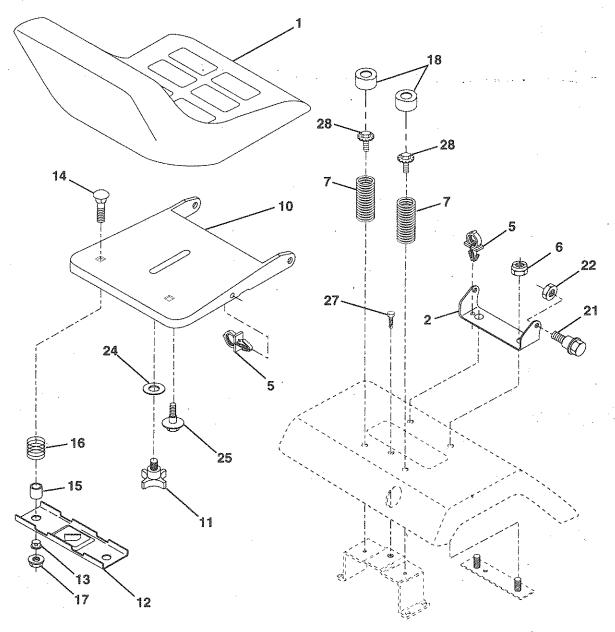
### ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 2	132755 17720410	Control, Throttle Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3	141948	Engine, Kohler Model No.
4 5 6 7 8 10 11 12 13 14 15 16 17 23 24 25 26 29 31 32 33 34 37	149723 136215 136216 138129 150176 145552 STD551131 74570512 13280336 13200300 11050600 17490624 128953	MV18S-58560 Muffler, Asm. Twin Lo-Tone Tube Manifold LH Kohler MV18 Tube Manifold RH Kohler MV18 Clamp Tube Double Engine Bolt 5/16-18 UNC x 3/4 w/Sems Shield Heat Washer Lock Hvy HLCL Spr. 5/16 Screw Hex Skt 5/16 UNV x 3/4 Gasket (Order From Engine Manufacturer) Nipple, Pipe Elbow, Standard 90°, 3/8-18 NPT Washer, Lock Screw Thdrol 3/8-16 x 1-1/2 TT Shield, Heat Screw Control Choke Nut Fin Hex 3/8-24 UNF Arrester, Spark Tank, Fuel Cap Assembly, Fuel Clamp, Hose Spacer, Pad Line, Fuel
38		Plug, Oil Drain (Order From Engine Manufacturer)
39 40 41 81	109227X 3645J 139277 128861	Spacer Pad Bushing Stem, Fuel Tank Nut Flange 1/4-20 Starter Nut

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

### **TRACTOR - - MODEL NUMBER 917.256700**

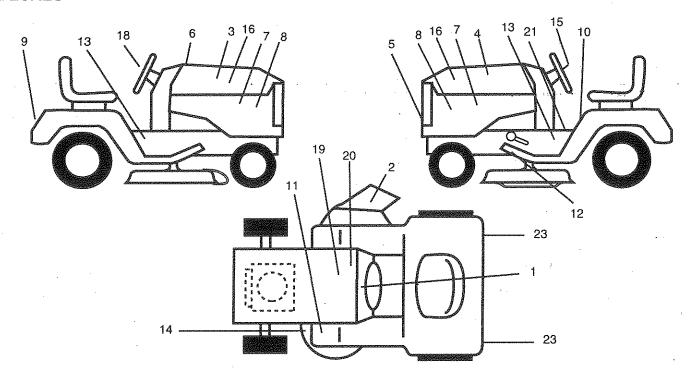
### SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 25 6 7 10 11 12 13	140123 140551 145006 73800600 124181X 140552 120068X 121246X 121248X	Seat Bracket, Pivot, Seat Clip Push-In Nut, Lock Hex w/Ins. 3/8-16 UNC Spring, Seat Pan, Seat Knob, Seat Bracket, Switch Mounting Bushing, Snap, Nylon	16 17 18 21 22 24 25 27 28	121250X 123976X 124238X 139888 STD541431 19171912 127018X 17490608 150176	Spring Nut, Flangelock 1/4 Grade 5 Cap, Spring, Seat Bolt, Shoulder 5/16-18 UNC Nut Washer 17/32 x 1-3/16 x 12 Gauge Bolt, Shoulder 5/16-18 x .62 Screw Thdrol. 3/8-16 x 1/2 Bolt 5/16-18 x 3/4 w/Sems
14 15	72050411 134300	Bolt, Carriage 1/4-20 x 1-3/8 Spacer, Split	NOT	E: All compoint inch = 25	nent dimensions given in U.S. inches

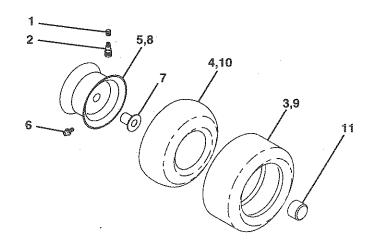
### TRACTOR - - MODEL NUMBER 917.256700

### DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	138955	Decal, Operating Instruction	14	139346	Decal, V-Belt Schematic
2	151302	Decal, Deck Mower, EZ3 Polo	15	150333	Decal, Cap Cnsmr Help Line Srs.
3	146705	Decal, Hood, Craftsman, RH	16	147137	Decal Ins. Hood
4	146706	Decal, Hood, Craftsman, LH	18	146710	Decal, Insert Strg
5	151400	Decal, Grille	19	138047	Decal, Battery
6	133644	Decal, Maintenance	20	149516	Decal, Btry, Dngr/Psn. Eng. Acme
7	138048	Decal, Side Panel	21	140837	Decal, Brake Parking Saddle
8	142243	Decal, Side Panel	23	106202X	Reflector, Taillight
9	146709	Decal, Fender, Craftsman		138311	Decal, Handle Lift Height Adj.
10	137537	Decal, Caution		145245	Decal, Pad Footrest
11	4900J	Decal, Clutch/Brake		145247	Fastener Pop-In Footrest
12	146046	Decal, V-Belt Drive Schematic		151390	Manual, Owner's (Eng)
13	151452	Decal, Chassis, 46" 6 Sp Srs. Polo		151391	Manual, Owners (Span)

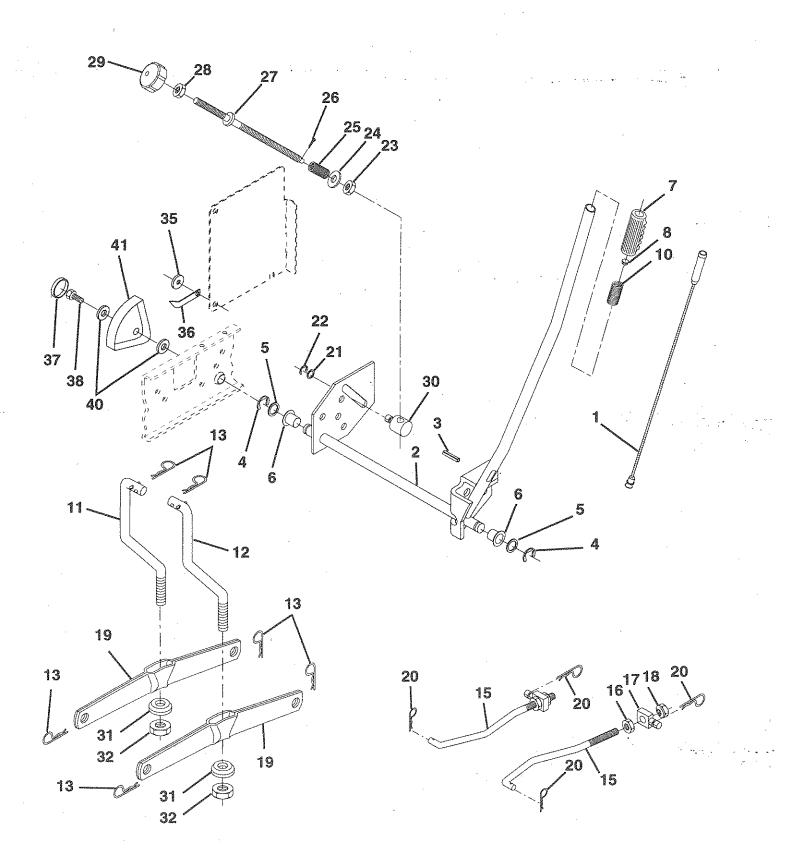
### WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2 3	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front (Service Item Only)
4 5	106732X427	Rim Assembly, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim Assembly, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear (Service Item Only)
11	104757X	Cap, Axle
	144334	Sealant, Tire (10 oz. Tube)

### TRACTOR - - MODEL NUMBER 917.256700

### **MOWER LIFT**



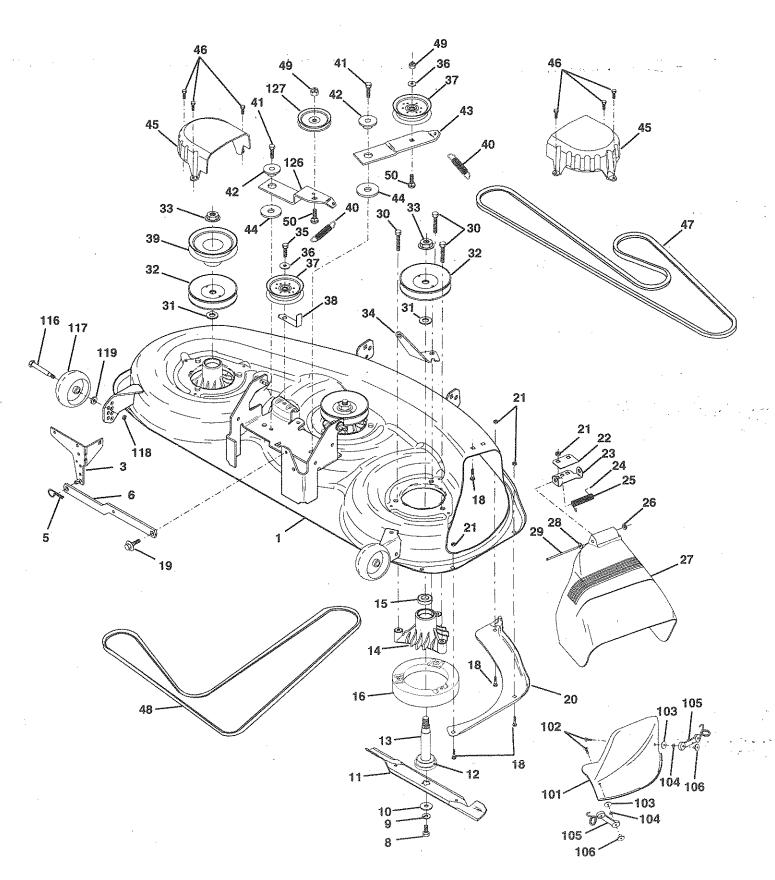
### **TRACTOR - - MODEL NUMBER 917.256700**

### **MOWER LIFT**

KEY NO.		DESCRIPTION
16 17 18 19 20 21	127218 73350800 130171 73800800 139868 STD624008 19151216 12000037 110807X 19131016 137150 76020308 137167 73350600 138057 110810X 140302 73540600 120529X 123933X505 123935X 17490512 19112410	Wire Asm., Inner w/plunger Shaft Asm Lift Pin Groove E Ring #5133-62 Washer 21/32 X 1 X 21 Ga Bearing Nylon Grip Handle Fluted Button, Plunger Spring Cprsn Link Lift Lh Link Lift Rh Retainer Spring Link Front Nut Jam Hex 1/2-13 Unc Trunnion Blk Zinc Nut Lock W/Wsh 1/2-13 Unc Arm Suspension Rear Spring Retainer Washer 15/32 X 3/4 X 16 Ga Ring Klip #T5304-37 Nut Special Washer 13/32 X 5/8 X 16 Ga Spring" Pin Cotter 3/32 x 1/2 Rod Adjust Lift Nut Hex Jam 3/8-16 Unc Knob Infinite 3/8-16 Unc Black Trunnion Dp Stop Dbl Thds Plt Bearing Pvt. Lift Spherical Nut, Crownlock 3/8-24 Washer, Nylon .44 x .75 x .032 Pointer, Height Indicator Plug, Hole Screw Thdrol 5/16-18 x 3/4 Washer 11/32 x 1-1/2 x 10 Gauge Scale. Height Indicator
41	123934X	Scale, Height Indicator

### TRACTOR - - MODEL NUMBER 917.256700

### MOWER DECK



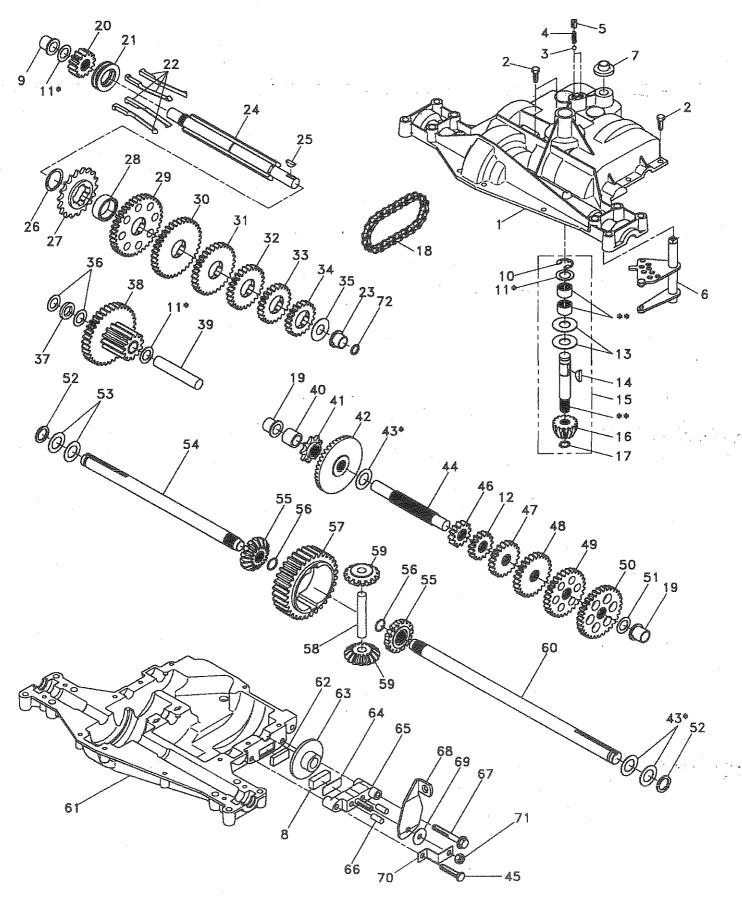
### TRACTOR - - MODEL NUMBER 917.256700

### MOWER DECK

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.		DESCRIPTION
1	145008	Housing, Mower 46"	38	137554	Keeper, Belt, Idler
3	138457	Bracket Asm., Sway Bar	39	144917	Pulley, Idler, Driven
5	STD624008	Retainer Spring	40	137273	Spring, Secondary 44/46/50 Vent
6	130832	Arm, Suspension, Rear (Sway Bar)	41	17490620	Screw, Thdroll 3/8-16 x 1-1/4 Tytt
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	42	122052X	Spacer, Retainer
9	STD551137	Washer, Lock Hvy., Unplated 3/8	43	144949	Arm, Idler Secondary
10	140296	Washer, Hard Blade, Mower	44	133943	Washer, Hardened
		Vented	45	145059	Cover, Mandrel Deck
11	145708	Blade, 46" Mower Deck	46	137729	Screw, Thdroll. 1/4-20 x 5/8
12	129895	Bearing, Ball, Mandrel #6204	47	144959	V-Belt, Mower, Secondary
13	137553	Shaft Asm. w/Lower Bearing	48	148763	V-Belt, Mower, Primary
	*	(Includes Key No. 12)	49	STD541437	Nut, Crownlock 3/8-16 UNC
14	137152	Housing, Mandrel	50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5
15	110485X	Bearing, Ball, Mandrel	101		Cover, Mulching
16	140329	Stripper, Mower Round		71161010	Screw
18	72140505	Bolt, Carriage 5/16-18 x 5/8		10071000	Washer, Lock #10
19	132827	Bolt, Hex Head, Shoulder 5/16-18		19061216	Washer
20	145055	Baffle, Vortex Mower 46"		130758	Latch Asm. Bagger
21	STD541431	Nut, Crownlock 5/16-18 UNC		2029J	Nut, Weld
22	134753	Stiffiner, Bracket		137644	Bolt, Shoulder
23	131267	Bracket, Deflector		133957	Gauge Wheel, Wide
24	105304X	Cap, Sleeve		73930600	Nut, Centerlock 3/8-16 UNC
25	149287	Spring, Torsion, Deflector		19121414	Washer 3/8 x 7/8 x 14 Ga.
26	110452X	Nut, Push		144948	Arm, Idler, Primary Deck 46"
27	145325	Shield, Deflector Mower	127	146763	Pulley, Idler, V-Groove Dim. 4.25
28	19111016	Washer 11/32 x 5/8 x 16 Ga.		147401	
29	131491	Rod, Hinge			Order separately mulcher plate and
30	138776	Screw, Hex Head, Thdroll			gauge wheel components Key Nos.
31	129963	Washer, Spacer Mower Vented		3 40054	101-106 and 116-118)
32	129207	Pulley, Mandrel		143651	Mandrel Assembly (Includes Key
33 34	137266	Nut, Fig. Top Lock Cntr. 9/16			Numbers 8-10, 12-15, 31 and 33)
	144945	Anchor, Spring Deck 46"		•	
35 36	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt	NOT	E: All compon	ent dimensions given in U.S. inches
36 37	19131316	Washer 13/32 x 13/16 x 16 Ga.		1 inch = 25	.4 mm
31	131494	Pulley, Idler, Flat			

### **TRACTOR - - MODEL NUMBER 917.256700**

**DANA TRANSAXLE - MODEL NUMBER 4360-97** 

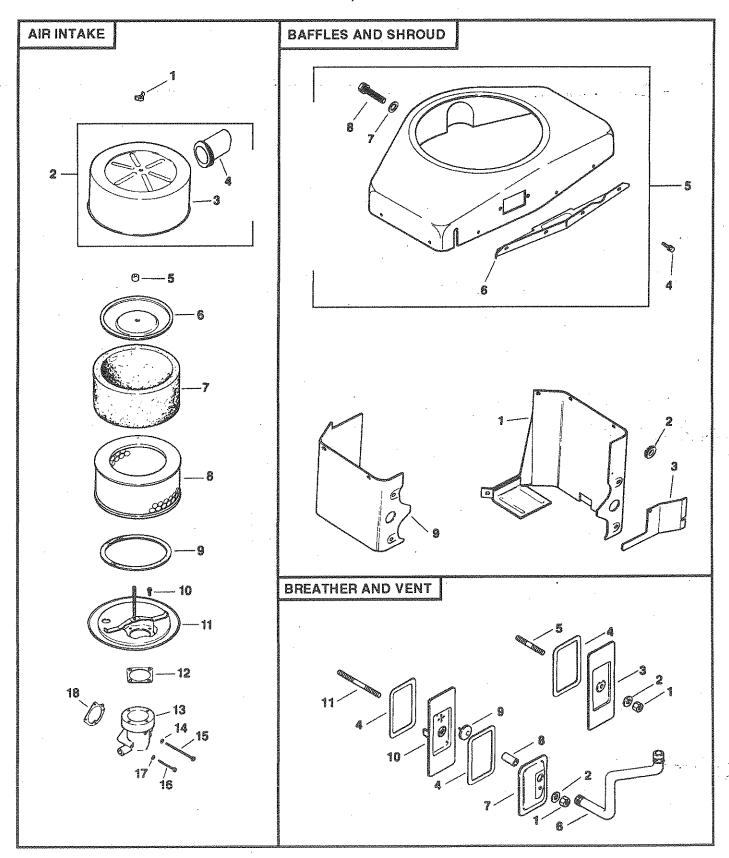


### TRACTOR - - MODEL NUMBER 917.256700

### **DANA TRANSAXLE - MODEL NUMBER 4360-97**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2	- <del>13267</del> T 2274J	Housing, Upper Screw, Tapping, Large	39	124639X 120472X	Shaft, Idler Spacer .633 x .87 x .755
2	22140	1/4-20 x .734	41	105928X	Sprocket, 9 Teeth (Reverse)
3	134400	Ball, Detent	42	106605X	Gear, Bevel, 42 Teeth
4	105904X	Spring, Detent	43	134394	Assembly, Kit, Shim, .750 Shaft
5	105905X	Screw, Set	44	120473X	Shaft, Drive
6	134788	Kit, Shifter Assembly	45	106596X	Screw, Tapping, Large
7	134399	Boot, Shifter Puck, Friction	46	142678	5/16-18 x 1.44 Gear, Spur, 12 Teeth (1-)
8 9	120951X 148266	Bearing, Flange	47	120407X	Gear, Spur, 20 Teeth (3-)
10	2225J	Ring, Retaining	48	106589X	Gear, Spur, 25 Teeth (4*)
11	134793	Assembly, Kit, Shim, .625 Shaft	49	120408X	Gear, Spur, 28 Teeth (5 <sub>"</sub> )
12	143679	Gear, Spur, 15 Teeth (2∞)	50	105937X	Gear, Spur, 31 Teeth (6-)
13	120415X	Washer, Plain .632 x 1.38 x .046	51	2226J	Washer, Plain .632 x 1.00 x .060
14	142674	Key, Woodruff, #9	52	134401	Washer, Neoprene
15	106846X	Assembly, Kit, Input Shaft	53	2264J	Washer, Plain .758 x 1.25 x .031
16	106095X	Pinion, Bevel, 14 Teeth	54 55	120474X	Axle, L.H.
17 18	105909X 105910X	Ring, Retaining Chain, 24 Pitches	56	110081X 105941X	Gear, Miter, 15 Teeth Ring, Retaining
19	105910X 105911X	Bearing, Flange	57	110071X	Gear, Spur, 32 Teeth
20	142675	Gear, Spur, 14 Teeth		120952X	Shaft, Cross
21	138246	Collar, Clutch		106592X	Gear, Miter, 15 Teeth
22	138238	Assembly, Kit, Clutch Keys		120475X	Axle, R.H.
23	148268	Bearing, Flange		142680	Housing, Lower
24	143673	Shaft, Intermediate		120961X	Puck, Friction
	2244J	Key, Woodruff, #61	63	7294J	Disc, Brake
26 27	105916X 120470X	Ring, Retaining Sprocket, 18 Teeth (Reverse)	64 65	108989X 120953X	Spacer Jaw, Brake
	110070X	Spacer (Neverse)		120953X 120954X	Pin, Dowel
29	142677	Gear, Spur, 37 Teeth (1*)		134799	Screw, Tapping 5/16-18 x 2.25
30	142681	Gear, Spur, 35 Teeth (2=)		138244	Lever, Actuating
31	124644X	Gear, Spur, 30 Teeth (3-)	69	108996X	Washer, Plain .321 x 1.00 x .055
	108980X	Gear, Spur, 25 Teeth (4 <sup>a</sup> )		120956X	Bracket, Anti-Rotation
33	120406X	Gear, Spur, 22 Teeth (5-)		73810500	Locknut 5/16-24
	134796	Gear, Spur, 19 Teeth (6-)		148269	Seal, Oil
35 36	105925X	Washer, Plain .640 x 1.37 x .061	73	120416X	Grease
30 37	2232J 108978X	Washer, Plain .632 x 1.00 x .026 Spacer .630 x 1.00 x .l69			•
38	1100970X 110079X		NOT	E: All compone	ent dimensions given in U.S. inches
		12 Teeth and 35 Teeth	_ uupP 31 83	1 inch = 25.4	

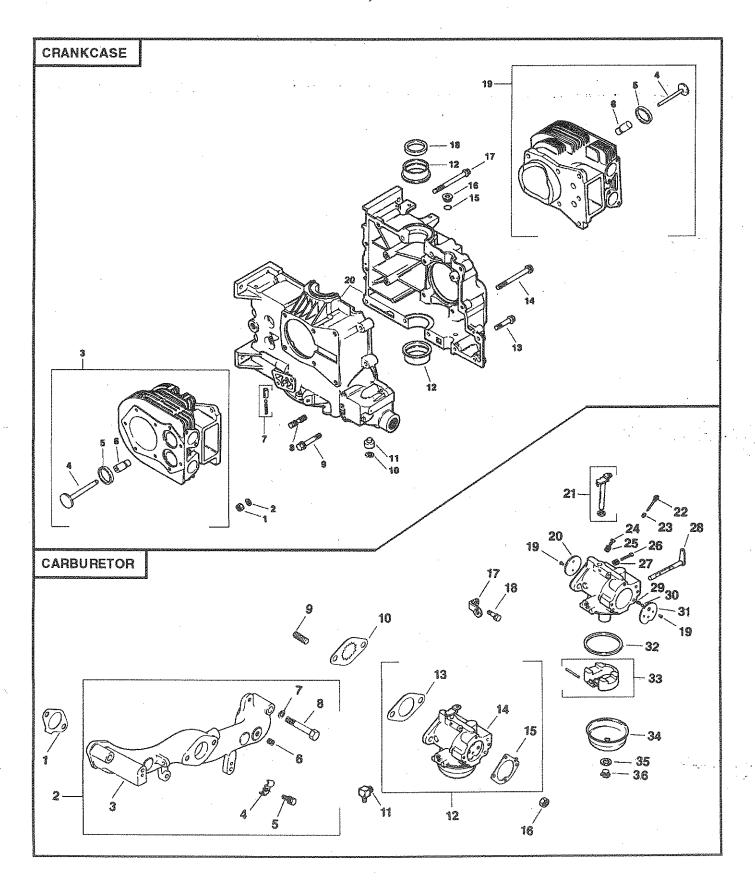
### **TRACTOR - - MODEL NUMBER 917.256700**



# TRACTOR - - MODEL NUMBER 917.256700 KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

AIR I	NTAKE				PART	DESCRIPTION	
KEY	PART	DESCRIPTION	NU	,	NO.	•	
NÖ.			1 2		52 063 41 52 313 05	Baffle, #2 Cylinder Head Grommet (2)	
1	X-276-7	Wing Nut 1/4-20	3		52 063 42	Baffle, Fuel Pump	
2	52 755 83	Kit, Cover and Tube	4		X-67-83	Screw, Hex Washer Head	
	1	(Includes Key Numbers 3 and 4)				1/4-20 x 7/16 (14)	
3	52 096 35	Cover, Air Cleaner	5	,	52 755 70	Kit, Blower Housing	
4	52 123 21	Tube, Air Intake				(Includes Key Numbers 6 thru 8)	
5	231032	Seal, Element Cover	6		52 217 01	Support, Upper Housing	
6	52 082 04	Cover, Air Cleaner Element	7		52 468 16	Washer, Flat (2)	
7	45 083 01	Pre-Cleaner	8		52 086 11	Screw 1/4-20 x 5/8 (6)	
8	45 083 02	Element	9	ł	52 124 23	Baffle, #1 Cylinder Head	
9	237423	Seal, Air Cleaner Cover		·		• •	
10	X-67-98	Screw, Hex Washer Head	NO		LLUSTRATED		
4.4	50.004.00	#10-32 x 9/16 (4)		1	52 113 46	Decal, Horsepower (3)	
11	52 201 06	Base, Air Cleaner				•	
12	277093	Gasket, Air Cleaner (2)	170 F70 I	gro st	water than the second trade		
13 14	52 054 39 X-25-79	Elbow, Air Intake	DH		THER & VENT		
15	X-20-79 X-50-37	Washer, Plain #10	VE	v	PART	DESCRIPTION	
10	A-00-07	Screw, Slotted Pan Head #10-32 x 2-1/4			NO.	DESCRIPTION	
16	X-50-57	Screw, Slotted Pan Head	180	•	140.		
10	X-30-31	#10-32 x 1-3/4 (2)	1		X-81-1	Nut, Hex 1/4-20 (2)	
17	X-22-9	Washer, Lock, Internal Tooth	2		X-25-12	Washer, Plain 1/4 (2)	•
• •	7.7	#10 (2)	3		52 096 18	Cover, #2 Cylinder Valve	
18	25 041 06	Gasket, Air Cleaner Elbow	4		52 055 01	Gasket, Cover (3)	
		,	5		X-352-39	Stud, #2 Cylinder Valve Cover	
NOT	ILLUSTRATED					1/4-20 x 2-1/4	
	25 113 15	Decal, Air Cleaner	6		52 326 12	Hose, Breather	
	52 113 30	Decal	7		52 096 08	Cover, #1 Upper Cylinder Valve	: 1
BAFF	LES & SHROUD	•	. 8		52 032 04	Seal, Breather	
		1	9		52 462 01	Valve, Umbrella	
	•		10		52 096 22	Cover, #1 Lower Cylinder Valve	
			11		275220	Stud, #1 Cylinder Valve Cover	
						1/4-20 x 3-1/4	

### **TRACTOR - - MODEL NUMBER 917.256700**

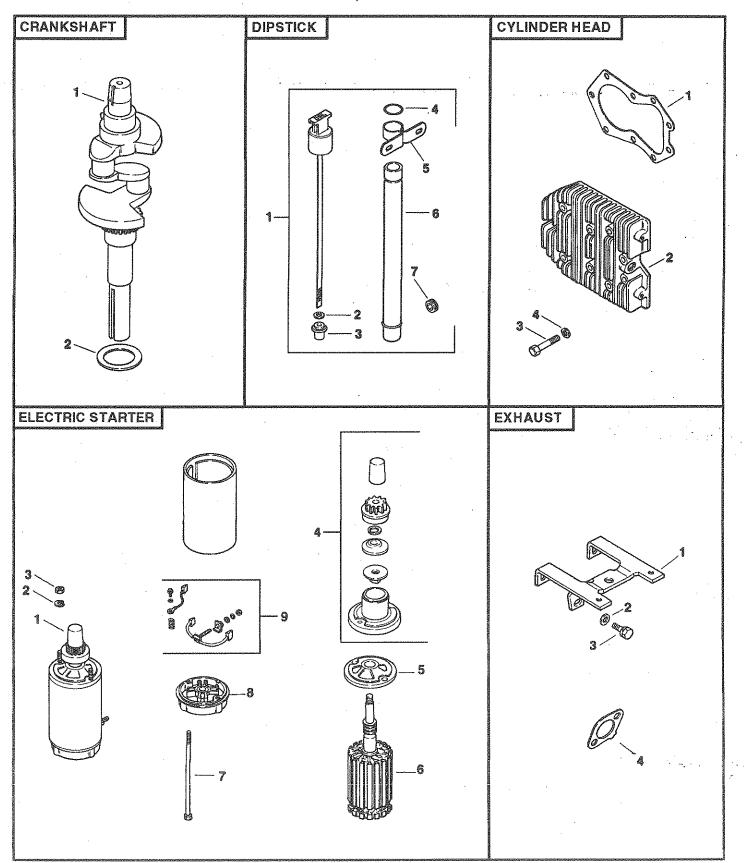


### **TRACTOR - - MODEL NUMBER 917.256700**

### KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

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

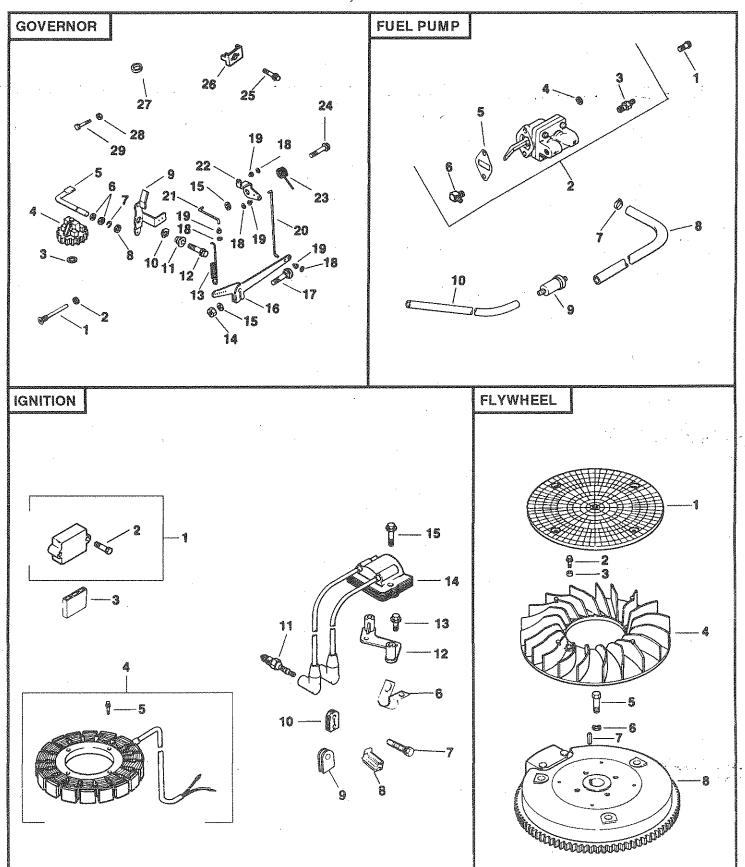
### **TRACTOR - - MODEL NUMBER 917.256700**



### **TRACTOR - - MODEL NUMBER 917.256700**

CRA	NKSHAFT		ELE	CTRIC STARTE	₹
KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2	52 014 93 52 468 03 52 468 04 52 468 05	Crankshaft Washer, Thrust .119/.122 (A.R.) Washer, Thrust .128/.131 Washer, Thrust .137/.140 (A.R.)	1 2 3 4 5	52 098 12 X-20-1 X-81-1 82 755 26 52 081 07	Starter Assembly (Includes Key Numbers 4 thru 9) Washer, Lock 1/4 (2) Nut, Hex 1/4-20 (2) Kit, Drive Cap, Drive End
DIPS	TICK		6	52 170 05	Armature
KEY NO.	PART NO.	DESCRIPTION	8 9	52 211 01 52 227 10 82 755 28	Bolt, Thru (2) Cap, Commutator End Kit, Brush
1	52 038 14	Dipstick Assembly	NOT	ILLUSTRATED	
2 3 4	X-25-44 52 032 14 41 153 01	(Includes Key Numbers 2 and 3) Washer, Plain 5/16 Seal, Rubber O-Ring		25 450 03	Tag, Caution
5 6	52 126 11 52 123 20	Bracket, Oil Tube Support Tube, Oil Fill 11-7/8	EXH	AUST	
7	47 139 01	Plug, Hex, Countersunk 3/4 N.P.T.F.		PART NO.	DESCRIPTION
CYLI	NDER HEAD		1 2 3	52 126 12 X-25-72 52 086 11	Bracket Washer, Plain (3) Screw 1/4-20 x 5/8 (3)
	PART	DESCRIPTION	4	52 041 14	Gasket, Exhaust (2)
NO.	52 041 20 52 015 08 220534 41 086 02	Gasket, Head (2) Cylinder Head (2) Washer, Plain 5/16 (18) Screw, Hex Head 5/16-18 x 1-1/2 (18)	NOT	E: All componer 1 inch = 25.4	nt dimensions given in U.S. inches mm

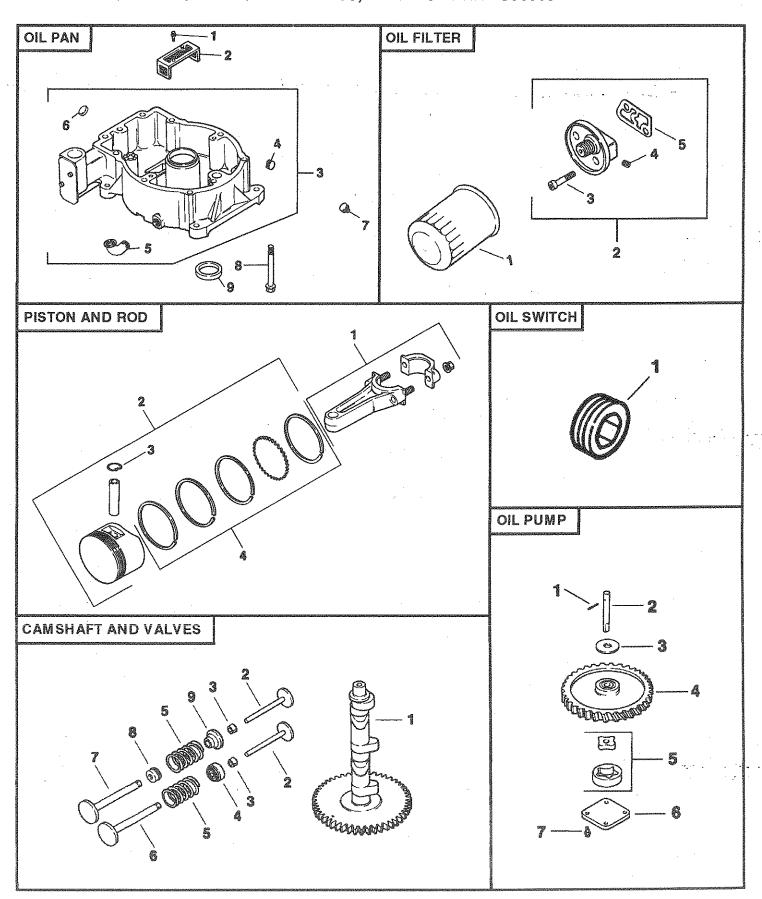
### **TRACTOR - - MODEL NUMBER 917.256700**



### **TRACTOR - - MODEL NUMBER 917.256700**

*** ***	n sa samaganag	•	FUE	PUMP	
rL.Y\	NHEEL		VEV	PART	DECODIDION
	PART NO.	DESCRIPTION		NO.	DESCRIPTION
1	25 162 01	Screen, Grass	1,	47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)
2	25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8 (4)	2	52 559 01	Pump, Fuel Àssembly (Includes Key Numbers 3 thru 6)
4	25 112 04 25 157 01	Spacer (4) Fan	3 4	X-380-1 X-25-63	Connector, Straight Washer, Plain 1/4 (2)
5 6	25 086 24 52 468 15	Screw, Hex Machine 3/8-24 x 1-1/4 Washer, Plain	5 6	25 041 09 25 155 02	Gasket, Fuel Pump Connector, Hose
7 8	X-286-17 52 025 36	Key, Square 3/16 x 7/8 Flywheel	7 8	X-426-9 52 353 18	Clamp, Hose (4) Line, Fuel, 8"
GOV	ERNOR		.10	25 050 03 15 353 04	Filter, Fuel Line, Fuel, 11-1/2"
OUV	CUIAON			1	•
	PART NO.	DESCRIPTION	IGNI	TION	
1 2	231355 X-25-12	Pin, Governor Stop Washer, Plain 1/4	KEY NO.	PART NO.	DESCRIPTION
2 3 4	237022 A-235743-S	Washer, Thrust Kit, Governor Gear	1	25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)
5 6	52 078 04 X-25-102	Shaft, Governor Cross Washer, Plain 1/4 (2)	2	X-132-5	Screw, Hex Cap 1/4-20 x 5/8 (2)
7	X-269-28	Retainer, Governor	3	236602 237878	Connector, 3 Contact Kit, Stator (Includes Key Number 5)
8	X-25-72	Washer, Plain 1/4 (2)	5	X-67-51	Screw, Hex Cap #10-24 x 3/4 (2)
9 10	52 090 23 277341	Lever, Speed Control Washer, Tension		210281	Clip (2)
11	52 158 07	Bushing, Throttle Control Lever	7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16
12	25 086 15	Screw, Hex Washer Head	. 8	41 155 03	Connector, 2 Contact
13	52 089 07	1/4-20 x 1 Spring, Governor	9	220297	Grommet, Rubber
: 14	X-81-1	Nut, Hex 1/4-20	10 11	52 313 02 52 132 02	Grommet Spark Plug (2)
15	X-25-63	Washer, Plain 1/4	12	52 126 08	Bracket, Module
16	52 186 09	Arm, Governor	13	25 086 15	Screw, Hex Washer Head
17	52 211 04	Screw, Round Head, Square Neck 1/ 4-20 x 1	4.4	E0 E0 4 00	1/4-20 x 1 (2)
18	25 141 03	Ring, Retaining (4)	14 15	52 584 02 25 086 16	Module, Ignifion Screw, Hex Washer Head
19	25 158 08	Bushing, Linkage Retaining (4)	13	23 000 10	1/4-20 x 7/8 (2)
20	52 079 07	Linkage, Governor			,
21 22	52 079 06 52 090 14	Linkage, Throttle Lever, Throttle		ILLUSTRATED	
23	52 089 08	Spring, Torsion		47 518 33	Lead, Violet, Rectifier-Regulator
24	25 086 21	Screw, Hex Washer Head		4	(11", 14 Gauge, Uninsulated Push On Tab Terminals)
		1/4-20 x 5/8	~ -	52 518 19	Lead, White, Module To Connector
25	X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (3)			(19-1/2", 14 Gauge, Insulated Push
26	235778	Clamp, Cable (3)			On Tab, Uninsulated Push On Tab Terminals)
27	25 431 01	Bushing, Speed Control Lever			routhinas;
28	X-70-3	Nut, Hex #10-32	NOT	E: All componen	t dimensions given in U.S. inches
29	52 086 05	Screw, Hex Head #10-32 x 7/8		1 inch = 25.4	

### **TRACTOR - - MODEL NUMBER 917.256700**

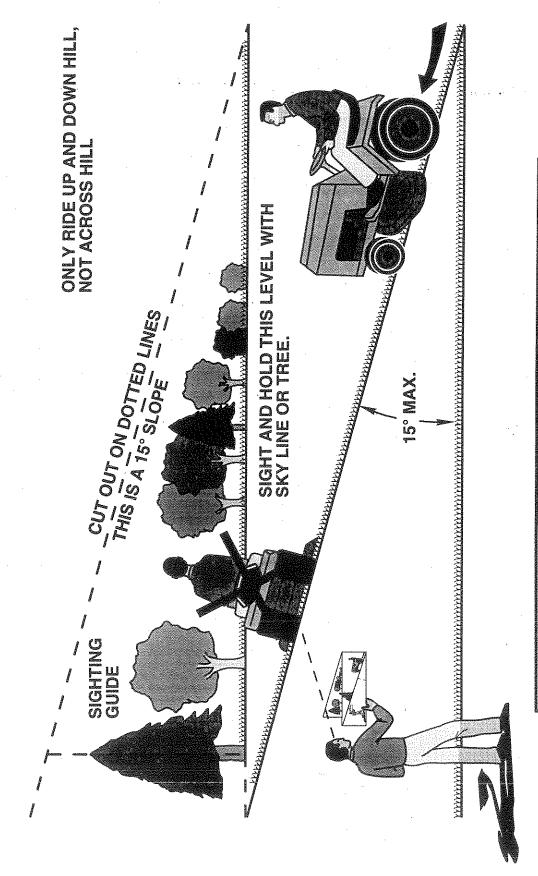


### TRACTOR - - MODEL NUMBER 917.256700

OIL PAN			LOW	LOW OIL PRESSURE SWITCH		
KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION	
1	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (2)	1	X-75-23	Plug, Pipe 1/8 N.P.T.F.	
2	52 050 03 52 199 14	Filter, Oil Pickup Oil Pan (Includes Key #4 thru 6)	CAMSHAFT & VALVES			
4 5 6	X-702-14 52 054 07 X-75-38	Plug, Cup 1-1/16 Elbow, Street Plug, Hex, Countersunk 1/4 N.P.T.F.		PART NO.	DESCRIPTION	
7 8	X-75-10 52 086 12	Plug, Square Head 3/8 N.P.T.F. (2) Screw, Hex Washer Head	1 2 3	52 012 09 52 019 03 41 755 10	* Camshaft * Tappet (4) Kit, Retainer (4)	
9	52 032 10	5/16-18 x 1-1/4 (9) Seal, Oil, Rear	4 5	52 413 01 25 089 01	Rotator, Exhaust Valve (2) Spring, Valve (4)	
OIL F	ILTER		6 7 8	52 016 05 52 017 08 52 032 13	Valve, Exhaust (2) Valve, Intake (2) Seal, Intake Valve Stem (2)	
KEY NO.	PART NO.	DESCRIPTION	9	230011 After serial no. : 52 012 11	Retainer, Intake Valve (2) 24082000 use: Camshaft	
1 2	52 050 02 82 755 23	Oil Filter Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5)	2	52 019 02	Tappet	
3	X-55-15	Screw, Hex Socket Head 5/16-18 x 1-1/4 (2)	OIL PUMP			
4	X-75-23	Plug, Hex, Countersunk 1/8 N.P.T.F.	KEY NO.	PART NO.	DESCRIPTION	
5	52 041 16	Gasket, Oil Filter	1	X-280-25	Pin, Roll	
PIST	ON & ROD		3	52 144 05 52 422 01	Shaft, Oil Pump Spacer, Shim (As Required, Maximum of 2)	
KEY NO.	PART NO.	DESCRIPTION	4 5 6	52 043 05 52 393 09 52 096 03	Gear, Oil Pump Rotor Set Cover, Oil Pump	
1	52 067 67 52 067 68	Connecting Rod, Standard (2) Connecting Rod .010" (2)	7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (4)	
2	52 874 11 52 874 12	Piston with Ring Set, Standard (2) Piston with Ring Set .003" (2)	NOT	ILLUSTRATED		
0	52 874 13 52 874 14 52 874 15	Piston with Ring Set .010" (2) Piston with Ring Set .020" (2) Piston with Ring Set .030" (2)		82 522 30 52 755 94	Short Block Gasket Set	
3 4	230004 52 108 09 52 108 10	Retainer, Piston Pin (4) Ring Set, Standard and .003" (2) Ring Set .010" (2)		RPM Settings:	Low Speed: 1150-1650 High Speed: 3200-3400	
	52 108 11 52 108 12	Ring Set .020" (2) Ring Set .030" (2)	NOT	E: All componen 1 inch = 25.4	t dimensions given in U.S. inches mm	

## **SERVICE NOTES**

# SUCCESTED GUET FOR SIGHTING SLOPES FOR SAFE OPERATION



150390

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.

Operate your Tractor up and down the face of slopes (not

# SEARS OWNER'S MANUAL

MODEL NO. 917.256700

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