

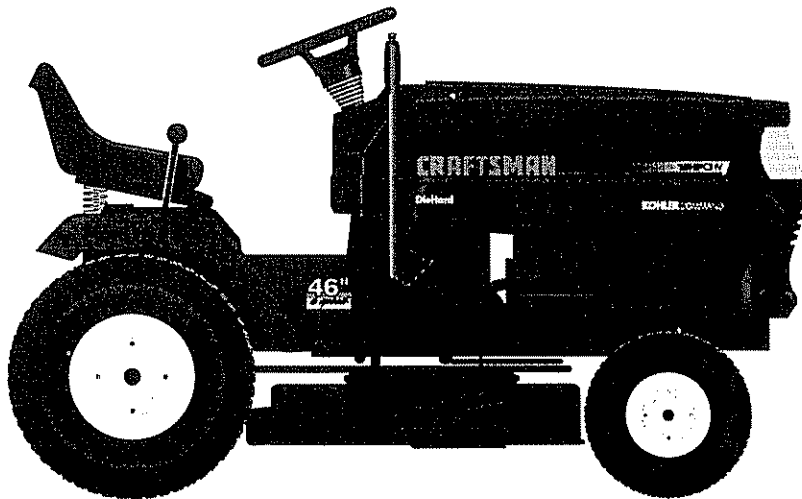
**SEARS**

# CRAFTSMAN®

**MODEL NUMBER 917.258580 OWNER'S MANUAL**

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

**EZ<sup>3</sup>**



This product has a low emission engine which operates differently from previously built engines. Before you start the engine, read and understand this Owner's Manual.

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

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



# SAFETY RULES



## Safe Operation Practices for Ride-On Mowers

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

### I. GENERAL OPERATION

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

### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

### III. CHILDREN

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

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

### IV. SERVICE

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



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



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



## WARNING

**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	917.258580
SERIAL NUMBER	_____
DATE OF PURCHASE	_____
THE MODEL AND SERIAL NUMBERS WILL BE FOUND ON A PLATE UNDER THE SEAT.	
YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.	

## MAINTENANCE AGREEMENT

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

## CUSTOMER RESPONSIBILITIES

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

## PRODUCT SPECIFICATIONS

HORSEPOWER:	16.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .040")	CHAMPION RC12YC
VALVE CLEARANCE:	NOT ADJUSTABLE
GROUND SPEED (MPH):	FORWARD: 1st 1.1 2nd 1.5 3rd 2.3 4th 3.5 5th 4.4 6th 5.7 REVERSE: 1.7
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.

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

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

## LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

## LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

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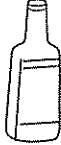

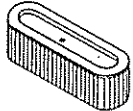
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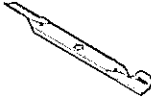
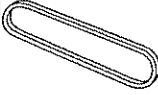
# ACCESSORIES AND ATTACHMENTS

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

## ENGINE

SPARK PLUG	GAS CAN	ENGINE OIL	FUEL STABILIZER	AIR FILTER
				

## MAINTENANCE

BLADES	BELTS
	

## 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 deicers 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.

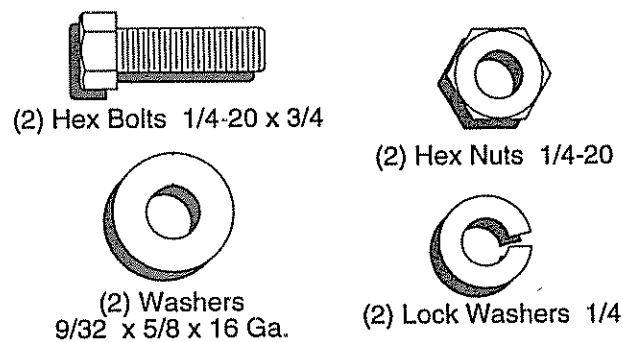
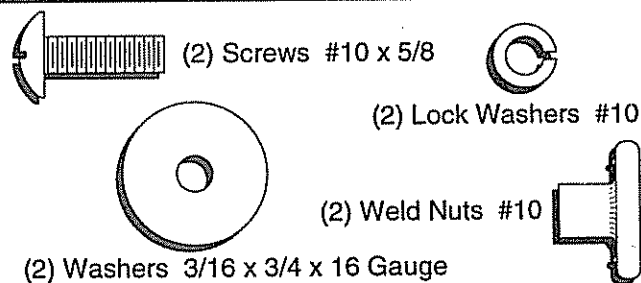
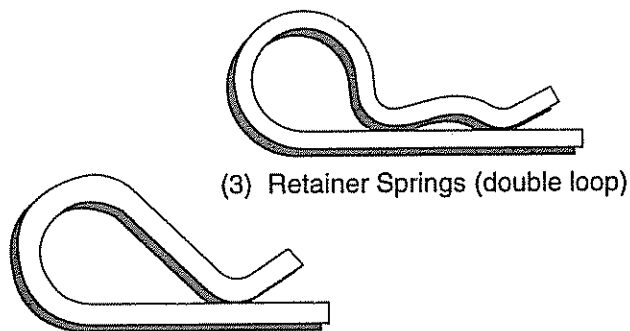
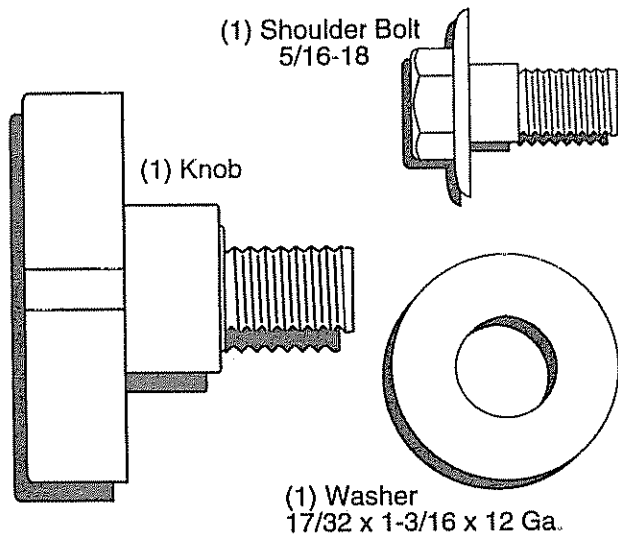
**VACS** for powerful collection of heavy grass clippings and leaves. **Optional wand attachment** to pick up debris in hard-to-reach places. **VAC/CHIPPER** includes a chipper-shredder.

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

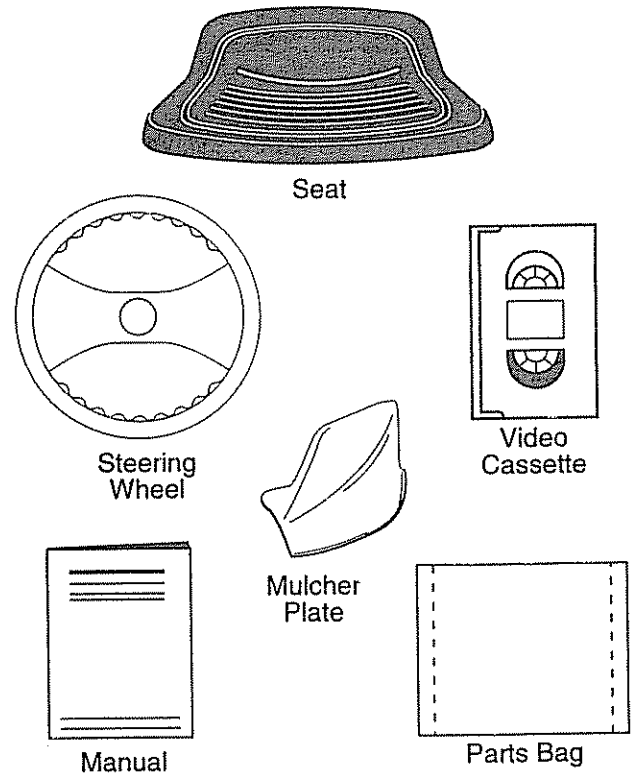
**WHEEL WEIGHTS** for rear wheels provide needed traction for snow removal or dozing heavy materials.

# CONTENTS OF HARDWARE PACK

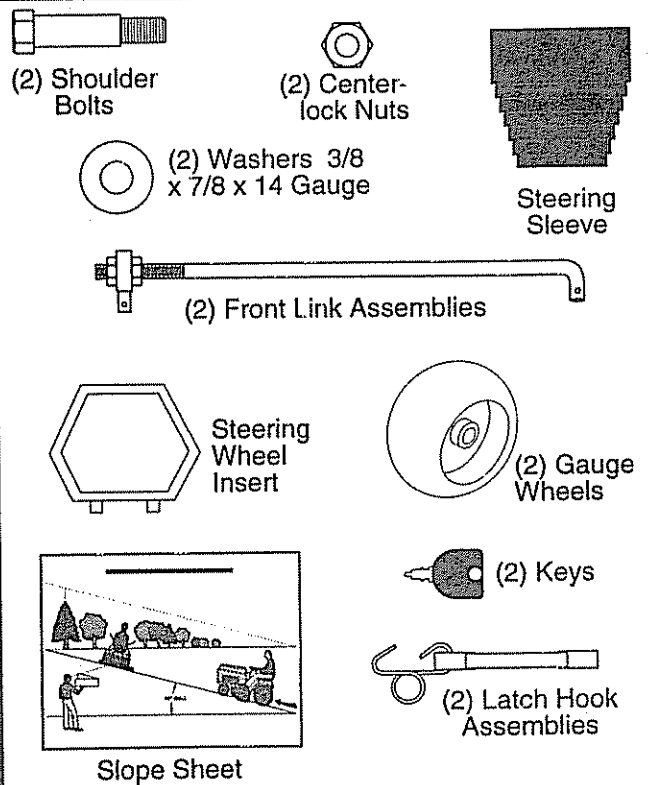
## Parts Bag contents shown full size



## Parts packed separately in carton



## Parts bag contents not shown full size



# ASSEMBLY

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        |
| (1) 3/4" wrench    | Utility knife               |

Pliers

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

## TO REMOVE TRACTOR FROM CARTON

### UNPACK CARTON

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

## BEFORE ROLLING TRACTOR OFF SKID

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

- Remove 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.

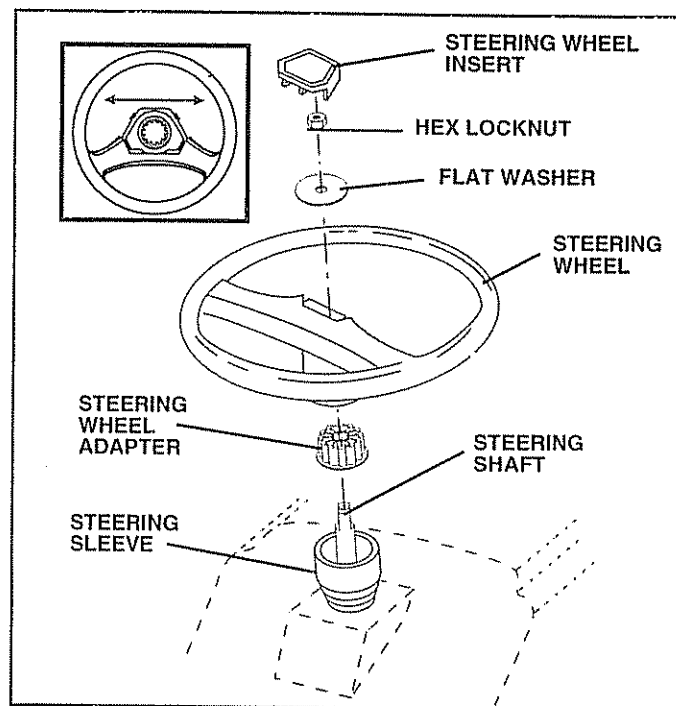


FIG. 1

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

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

# ASSEMBLY

## 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.

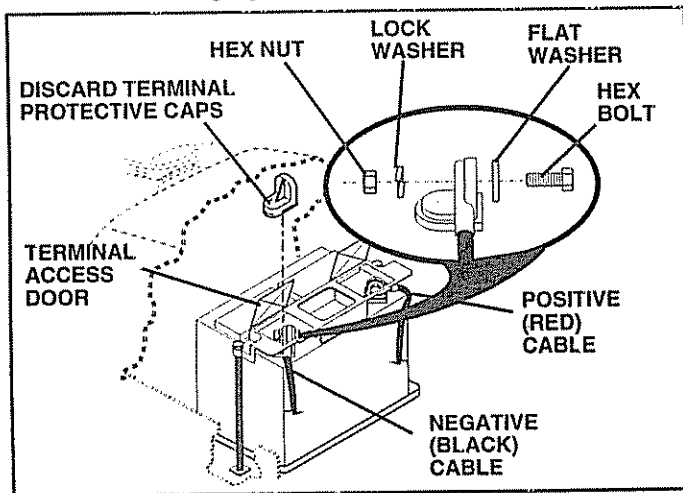


FIG. 2

## 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.

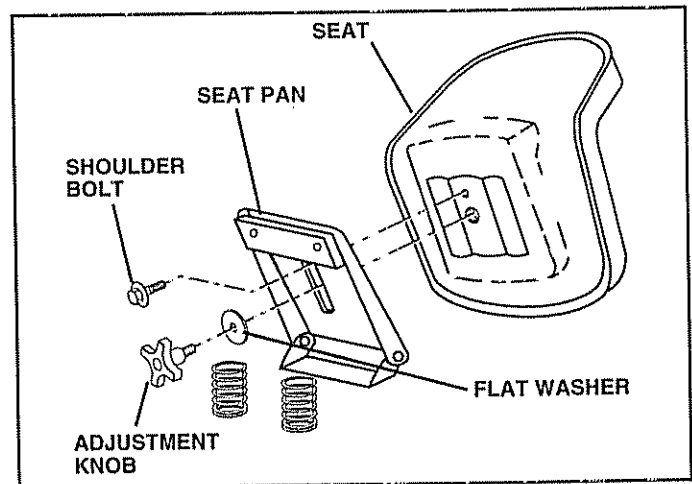


FIG. 3

## 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.



# ASSEMBLY

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

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

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

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

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

- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Install clutch rod in clutch lever. Secure with retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers, and 3/8-16 center locknuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

## CHECK MOWER LEVELNESS

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

## CHECK FOR PROPER POSITION OF ALL BELTS

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

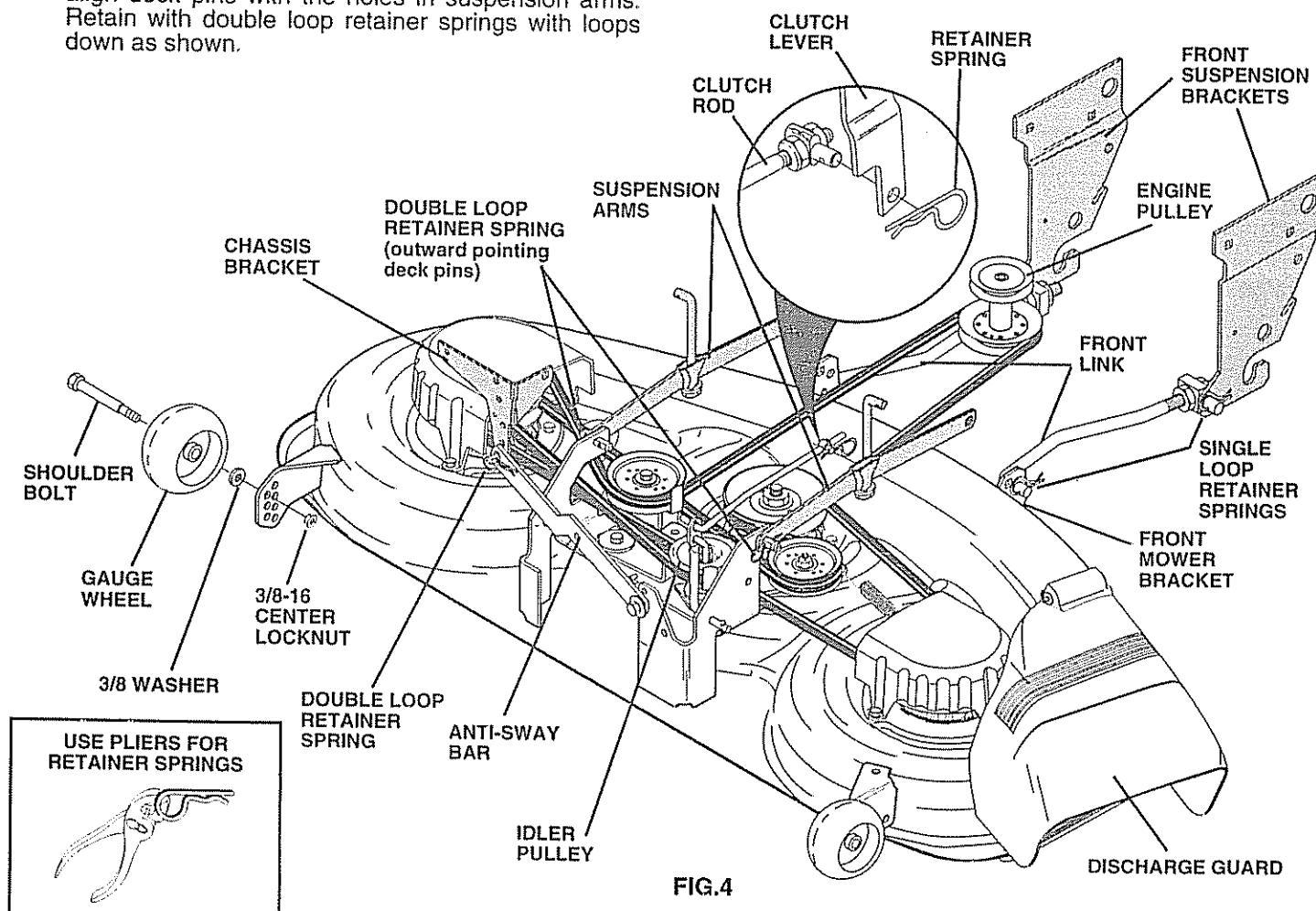


FIG.4

# ASSEMBLY

## 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.

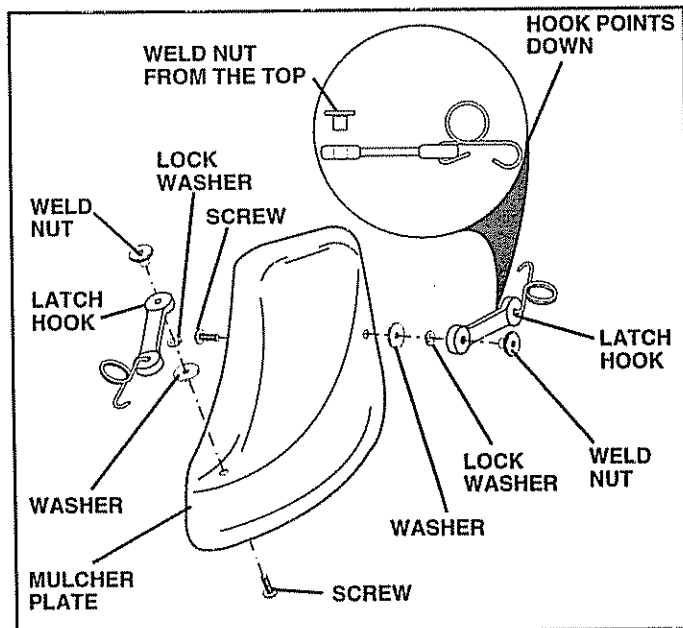


FIG. 5

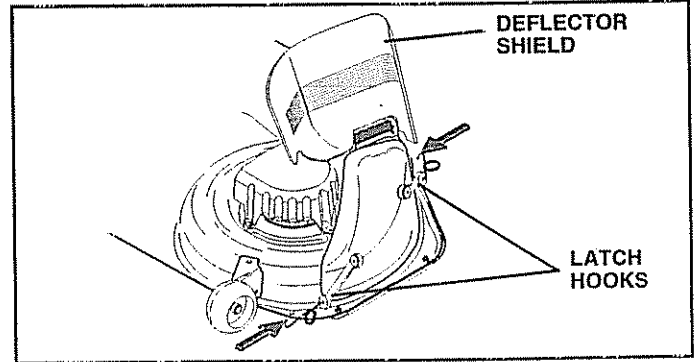


FIG. 6

## ✓ 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:

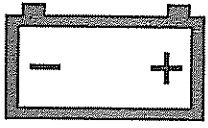
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated 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:*

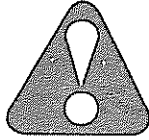
- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

# OPERATION

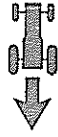
These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



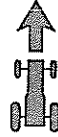
BATTERY



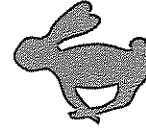
CAUTION OR WARNING



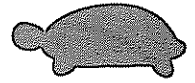
REVERSE



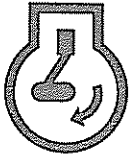
FORWARD



FAST



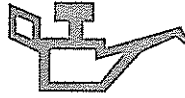
SLOW



ENGINE ON



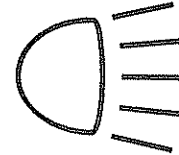
ENGINE OFF



OIL PRESSURE



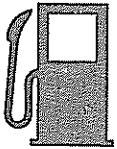
CLUTCH



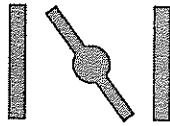
LIGHTS ON



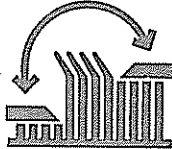
LIGHTS OFF



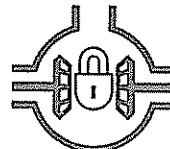
FUEL



CHOKE



MOWER HEIGHT



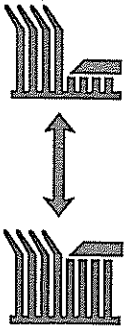
DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



REVERSE



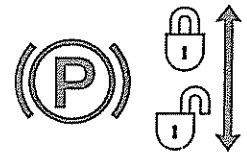
NEUTRAL



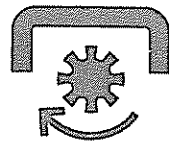
HIGH



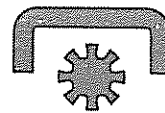
LOW



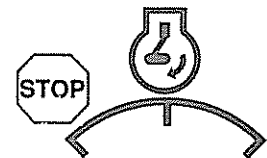
PARKING BRAKE



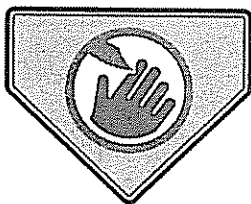
ATTACHMENT CLUTCH ENGAGED



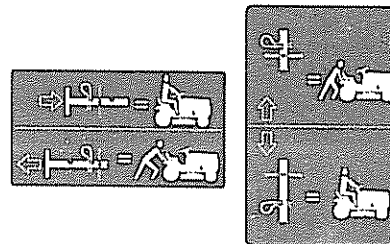
ATTACHMENT CLUTCH DISENGAGED



IGNITION



DANGER, KEEP HANDS AND FEET AWAY



HYDROSTATIC FREE WHEEL  
(Hydro Models only)

# OPERATION

## 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 locations of various controls and adjustments. Save this manual for future reference.

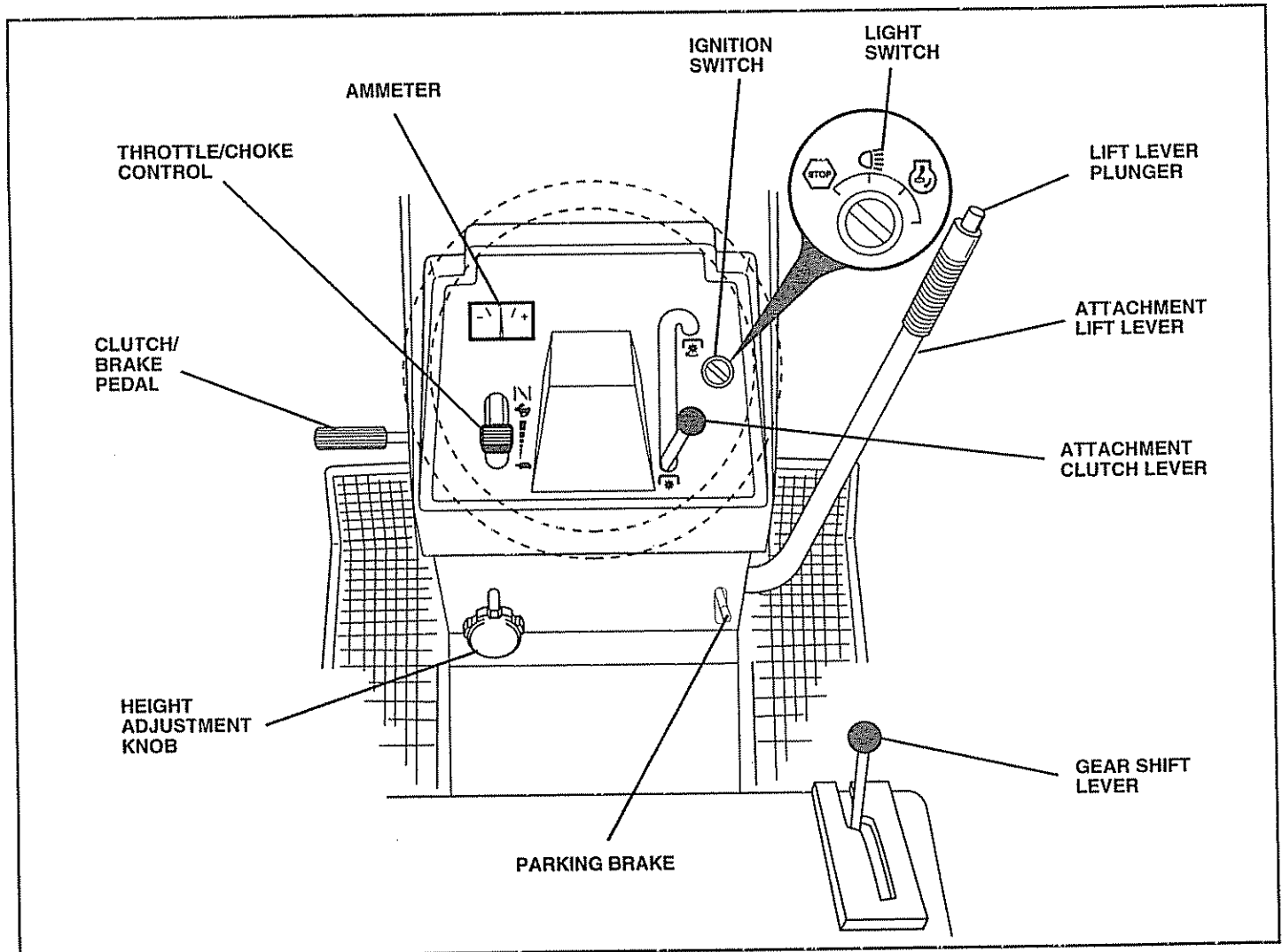


FIG. 7

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

**ATTACHMENT CLUTCH LEVER:** Used to engage the mower blades, or other attachments mounted to your tractor.

**LIGHT SWITCH:** Turns the headlights on and off.

**THROTTLE/CHOKE CONTROL:** Used to control engine speed.

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

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

**GEAR SHIFT LEVER** - Selects the speed and direction of the tractor.

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

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

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

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

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

# OPERATION



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.

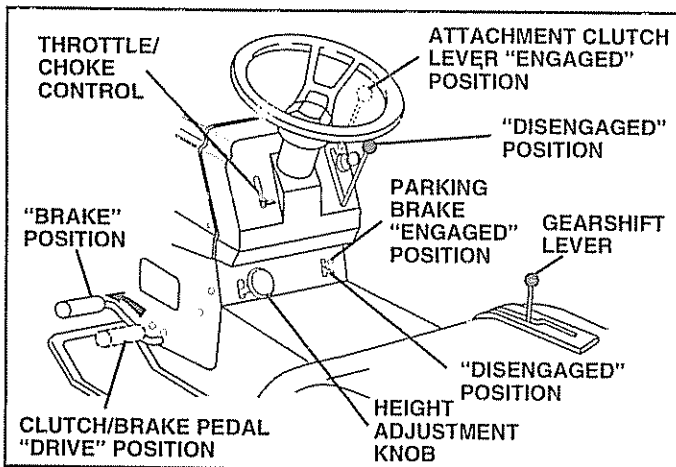


FIG. 8

### STOPPING (See Fig. 8)

#### MOWER BLADES -

- Move attachment clutch lever 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 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.

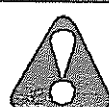
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- 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 OPERATE MOWER (See Fig. 9A)

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.

# OPERATION

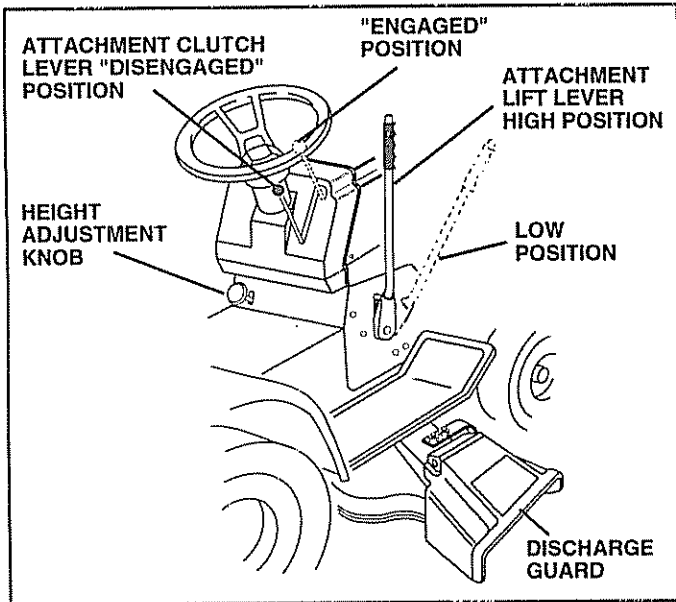


FIG. 9A

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

Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO ADJUST 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.

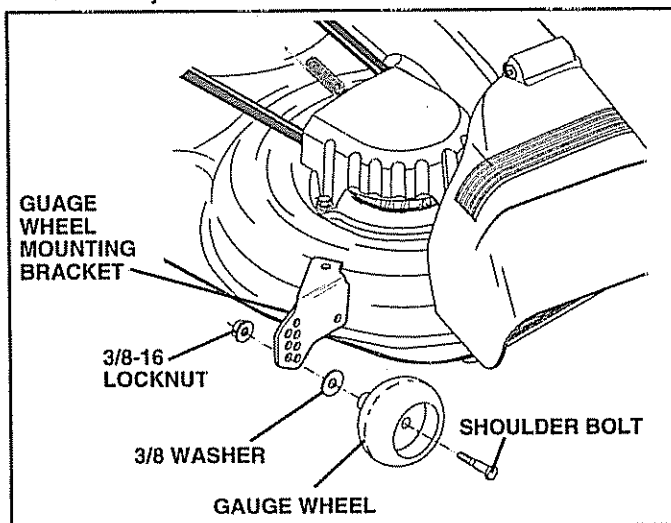


FIG. 9B

## 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. 15)

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

### 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.

# OPERATION



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

## TO START ENGINE (See Fig. 9)

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

- Depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to choke (⌵) position.

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

- Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, move throttle control to fast (⚡) position, wait a few minutes and try again. If engine still does not start, move the throttle control back to the choke (⌵) position and retry.

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

- When engine starts, move the throttle control to the fast (⚡) position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

## COLD WEATHER STARTING (50° F and below)

- When engine starts, allow engine to run with the throttle control in the choke (⌵) position until the engine runs roughly, then move throttle control to fast (⚡) position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.
- The attachments can also be used during the engine warm-up period.

**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. 10).

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

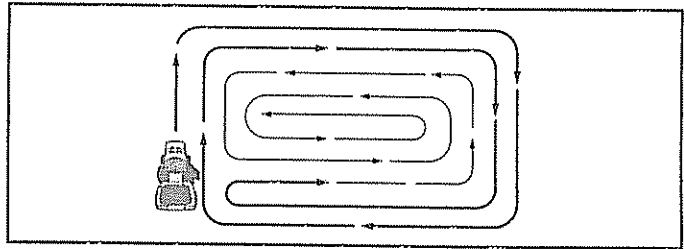


FIG. 10

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

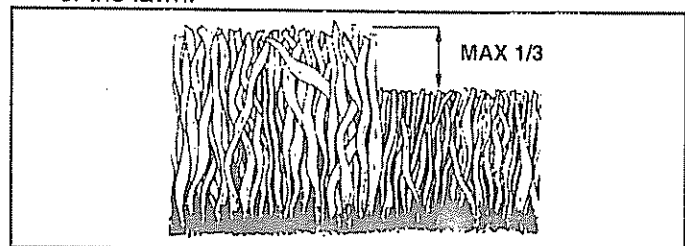


FIG. 11

# CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		SERVICE DATES																
		BEFORE EACH USE	FIRST 2 HOURS	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	BEFORE STORAGE										
TRACTOR	Check Brake Operation	✓		✓														
	Check Tire Pressure	✓		✓														
	Check for Loose Fasteners	✓					✓ <sub>7</sub>		✓									
	Sharpen/Replace Mower Blades				✓ <sub>4</sub>													
	Lubrication Chart				✓				✓									
	Check Battery Level/Recharge				✓ <sub>6</sub>													
	Clean Battery and Terminals				✓					✓								
	Check Transaxle Cooling				✓													
	Adjust Blade Belt(s) Tension							✓ <sub>5</sub>										
	Adjust Motion Drive Belt(s) Tension							✓ <sub>5</sub>										
ENGINE	Check Engine Oil Level	✓		✓														
	Change Engine Oil		✓		✓ <sub>1,2,3</sub>					✓								
	Clean Air Filter				✓ <sub>2</sub>													
	Clean Air Screen				✓ <sub>2</sub>													
	Inspect Muffler/Spark Arrester					✓												
	Replace Oil Filter (If equipped)							✓ <sub>1,2</sub>										
	Clean Engine Cooling Fins							✓ <sub>2</sub>										
	Replace Spark Plug							✓	✓									
	Replace Air Filter Paper Cartridge							✓ <sub>2</sub>										
	Replace Fuel Filter								✓									

- 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.

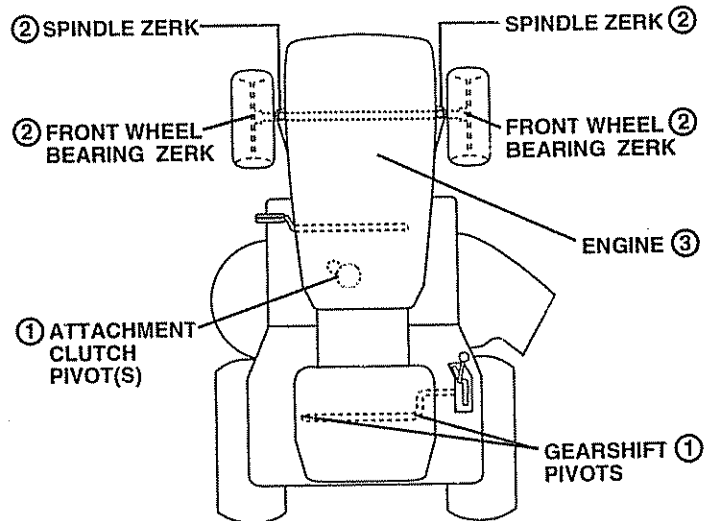
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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



# CUSTOMER RESPONSIBILITIES

## 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 "PRODUCT 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. 12)

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

**IMPORTANT:** BLADE BOLT IS GRADE 8 HEAT TREATED.

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

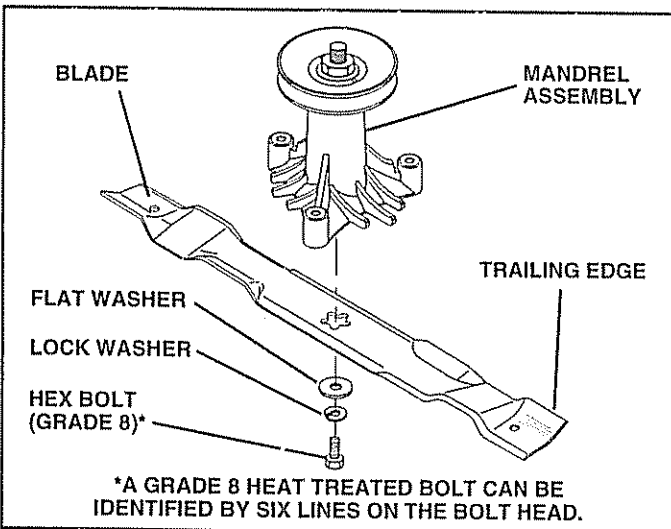


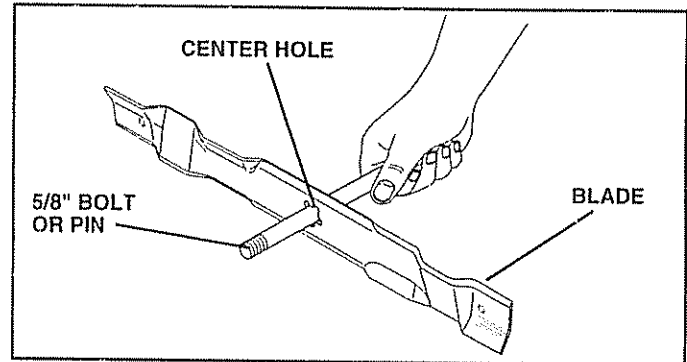
FIG. 13

## TO SHARPEN BLADE (See Fig. 13)

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.



## BATTERY

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

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

## TO CLEAN BATTERY AND TERMINALS

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

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

FIG. 12

# CUSTOMER RESPONSIBILITIES

## 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.

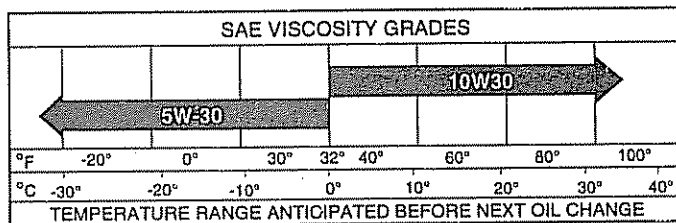


FIG. 14

**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 Figs. 14 and 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. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

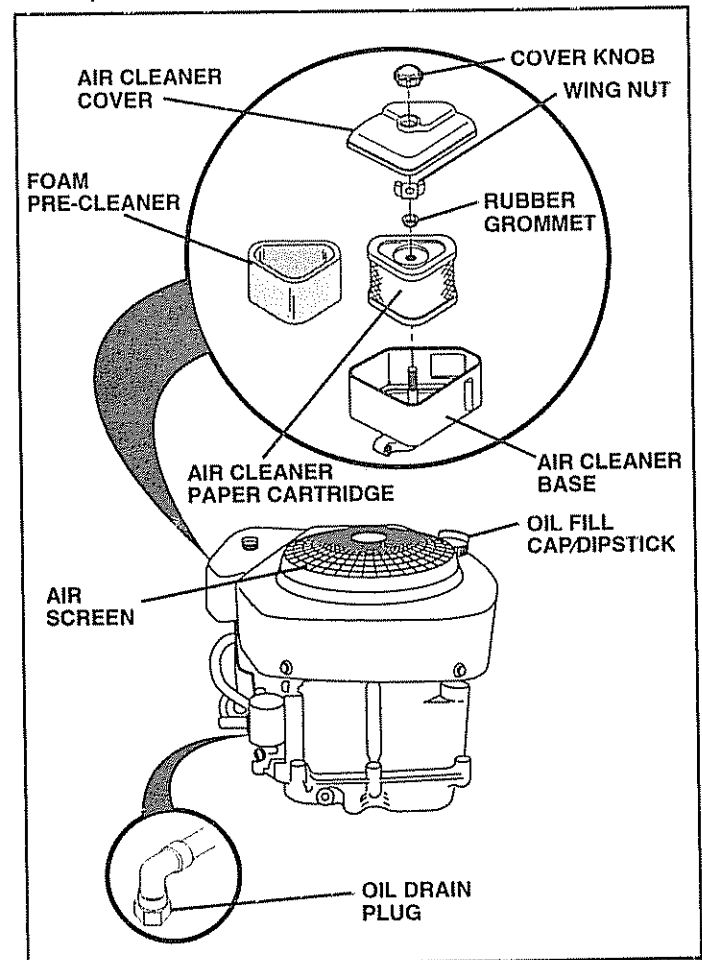


FIG. 15

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# CUSTOMER RESPONSIBILITIES

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## CLEAN AIR SCREEN (See Fig. 15)

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.

## AIR FILTER (See Fig. 15)

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 knob and cover.
- Remove wing nut and air cleaner from base.

### 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, wing nut, cover and tighten knob securely.

## CLEAN AIR INTAKE/COOLING AREAS

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

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

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

## 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.

# CUSTOMER RESPONSIBILITIES

## ENGINE OIL FILTER (See Fig. 16)

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

- Drain oil from engine crankcase (See "TO CHANGE ENGINE OIL" in this section of this manual, through step remove drain plug).
- Remove oil filter and wipe off filter adapter.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil (See "TO CHANGE ENGINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Start the engine and check for oil leaks. Correct any leaks before placing engine into full operation.

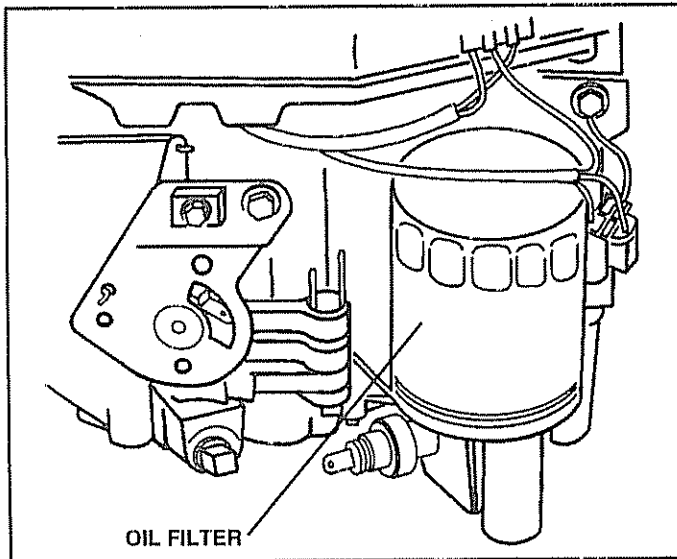


FIG. 16

## IN-LINE FUEL FILTER (See Fig. 17)

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.

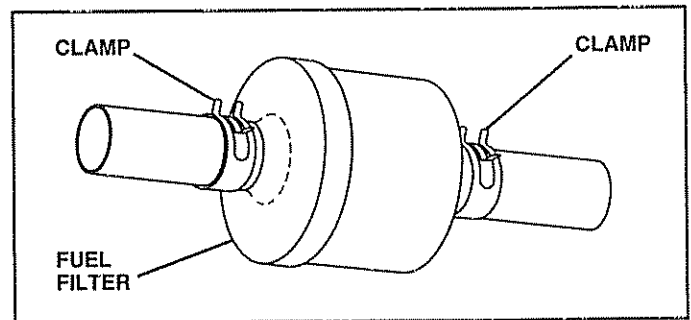


FIG. 17

## 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.

# SERVICE AND ADJUSTMENTS



## CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

## TO REMOVE MOWER (See Fig. 18)

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- 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 engine 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.

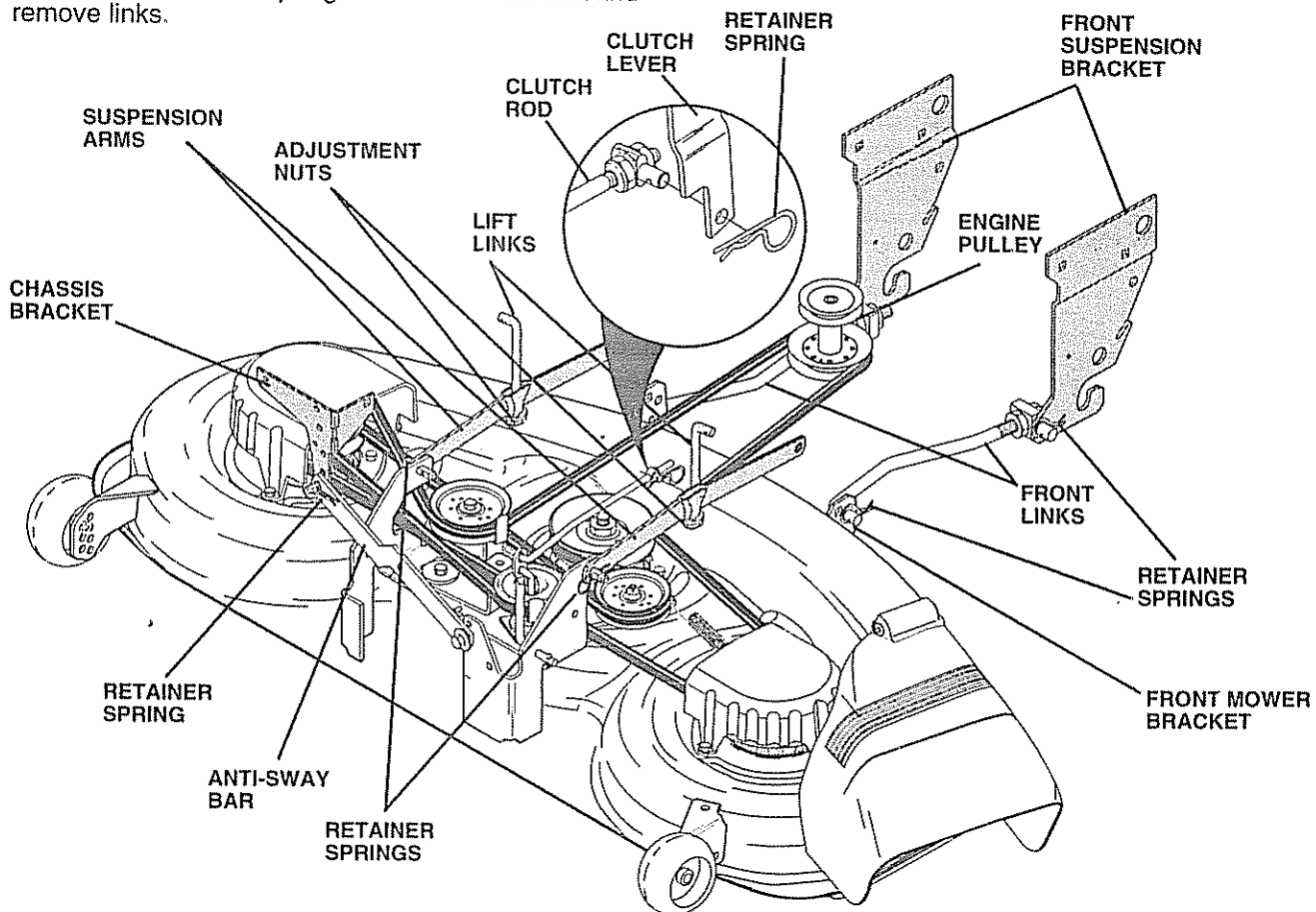


FIG. 18

# SERVICE AND ADJUSTMENTS

## TO LEVEL MOWER HOUSING

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

### SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

- 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.

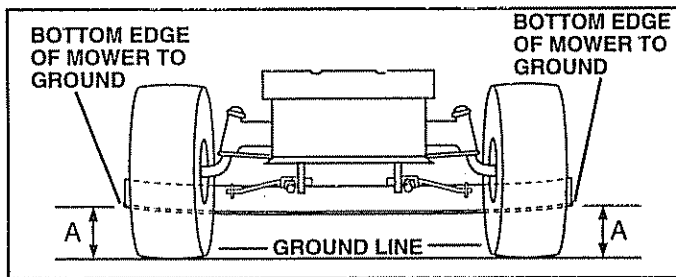


FIG. 19

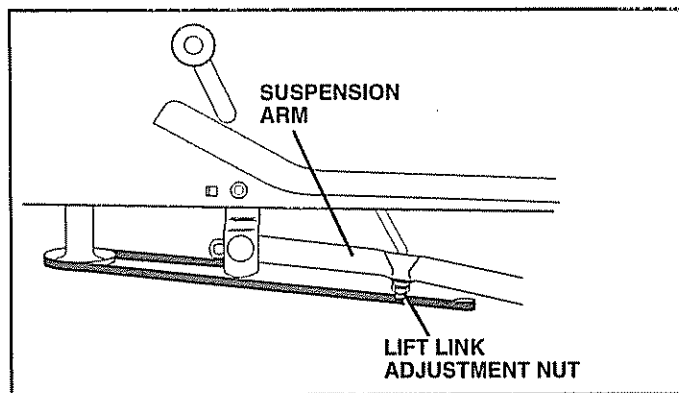


FIG. 20

### FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

**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 1/8" to 1/2" lower than the rear when the mower is in its highest position.

Check adjustment on right side of tractor. Measure distance "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 1/8" to 1/2" 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 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

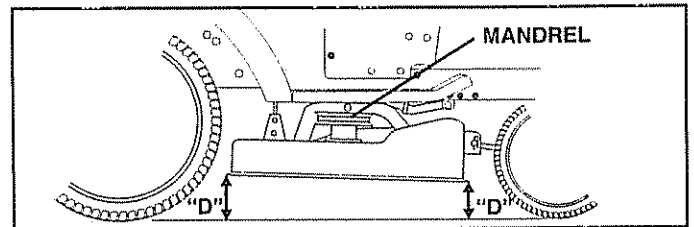


FIG. 21

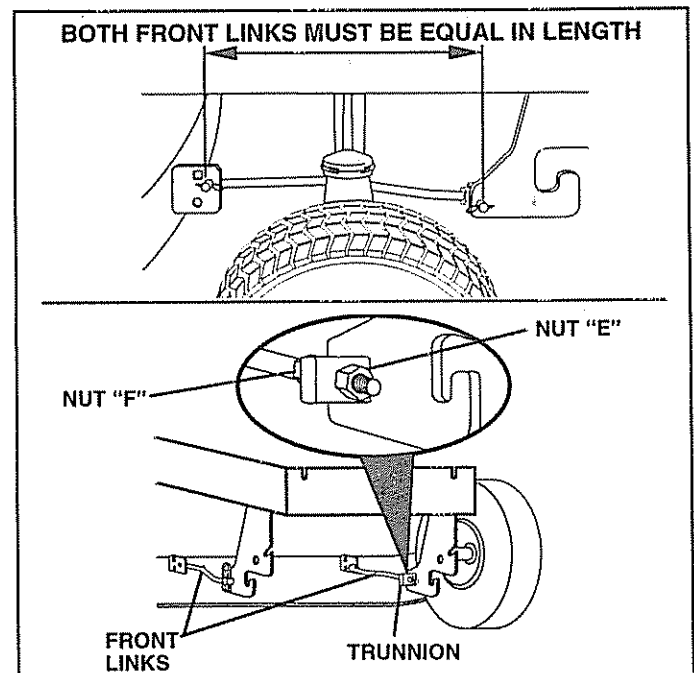


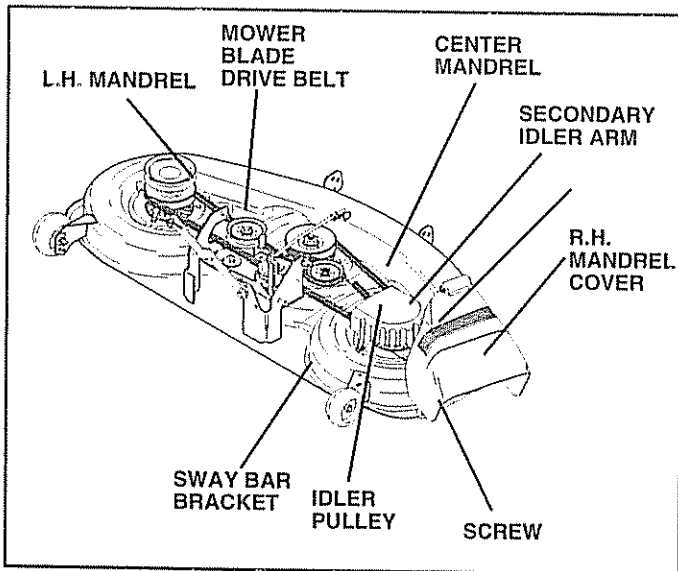
FIG. 22

# SERVICE AND ADJUSTMENTS

## TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

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.
- Disconnect secondary clutch rod from pivot rod by removing retainer spring.
- 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 secondary clutch rod to pivot rod with retainer spring.
- 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).



## TO ADJUST BRAKE (See Fig. 24)

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.

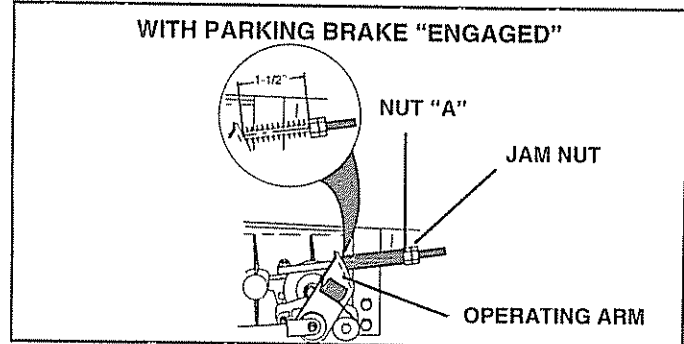


FIG. 24

## TO REPLACE MOTION DRIVE BELT (See Fig. 25)

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.)
- 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 belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.

**IMPORTANT: MAKE SURE UPPER BELT KEEPER IS POSITIONED PROPERLY BETWEEN LOCATOR TABS.**

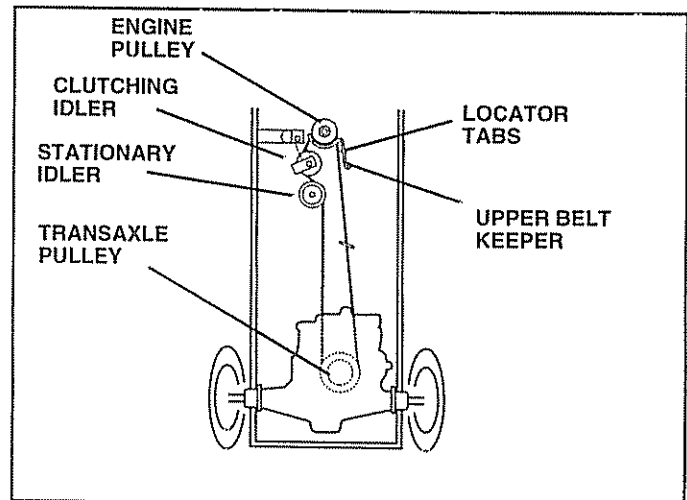


FIG. 25

# SERVICE AND ADJUSTMENTS

## TRANSAXLE SHIFTER LINKAGE AND ADJUSTMENT (See Figs. 26 and 27)

The transaxle should be in neutral when the gear shift lever is in the neutral (N) (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- Make sure transaxle is in neutral (N).
- Loosen two locknuts on tie rod.
- Turn center rod until gearshift lever falls into neutral lock gate on fender console.
- Tighten locknuts securely.

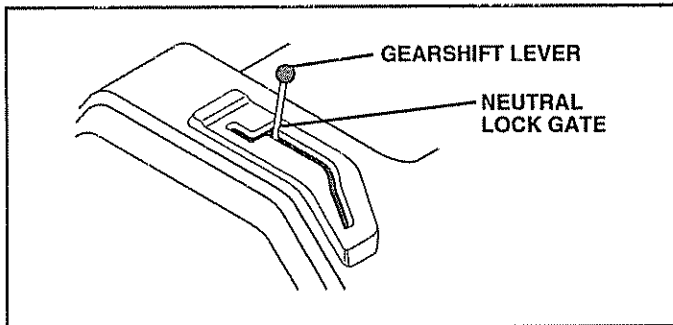


FIG. 26

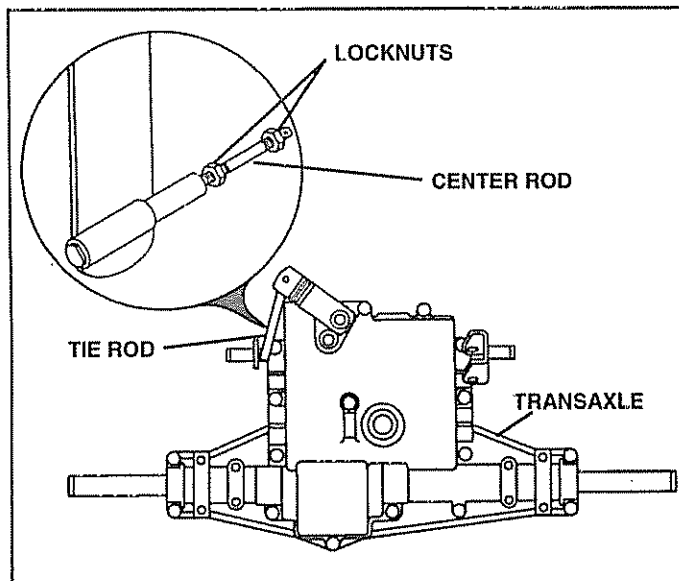


FIG. 27

## 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.

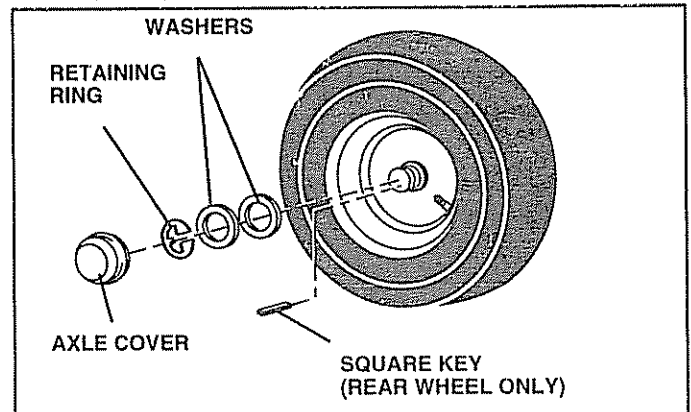


FIG. 28

## 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 NEGATIVE (-) 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.



# SERVICE AND ADJUSTMENTS

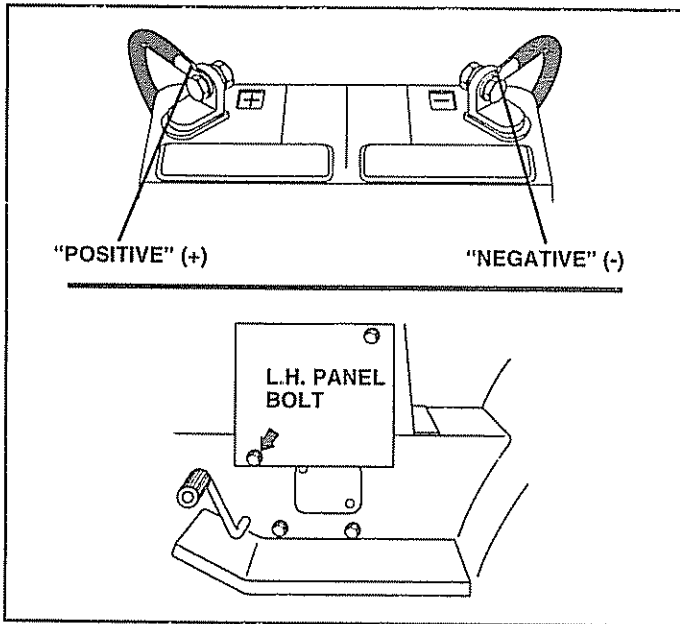


FIG. 29

## 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 procedures.

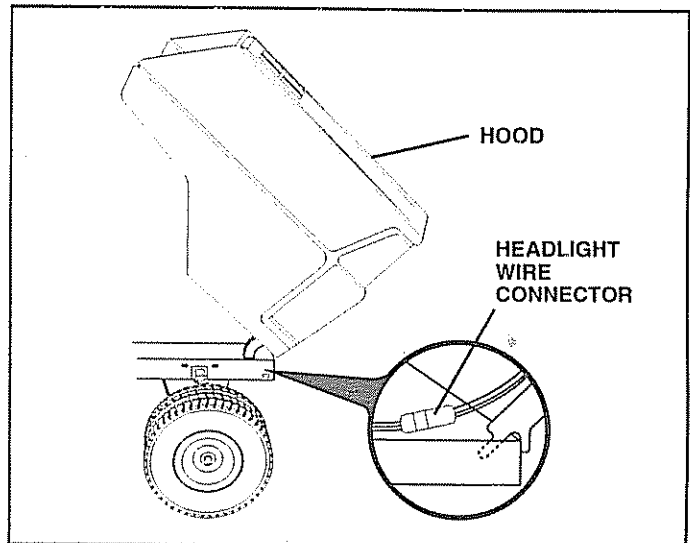


FIG. 30

## 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.

# SERVICE AND ADJUSTMENTS

## ENGINE

### TO ADJUST THROTTLE CONTROL CABLE (See Fig. 31)

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 from slow (☹) to choke (| \ |) position. Slowly move lever from choke (| \ |) to fast (☺) position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

### TO ADJUST CARBURETOR (See Fig. 32)

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

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

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

**NOTE:** The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- Start engine and allow to warm for five minutes. Make adjustments with engine running and shift/motion control lever in neutral (N) position.
- **Idle speed setting** - With throttle control lever in slow (☹) position, engine should idle at 1750 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 adjustment 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 fuel adjusting needle **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

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

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

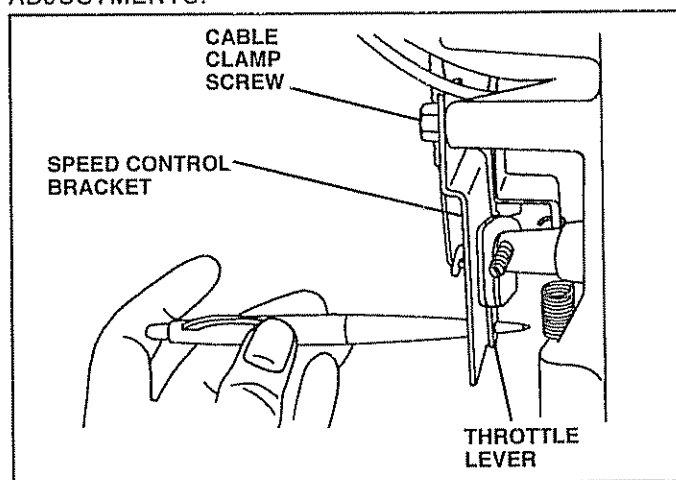


FIG. 31

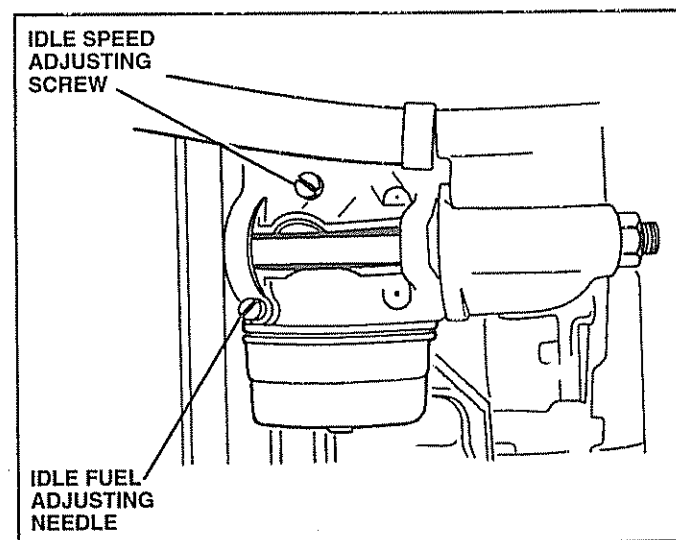


FIG. 32

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Engine not "CHOKED" properly.</li> <li>3. Engine flooded</li> <li>4. Bad spark plug.</li> <li>5. Dirty air filter.</li> <li>6. Dirty fuel filter.</li> <li>7. Water in fuel.</li>   <li>8. Loose or damaged wiring.</li> <li>9. Carburetor out of adjustment.</li>   <li>10. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. See "TO START ENGINE" in Operation section.</li> <li>3. Wait several minutes before attempting to start.</li> <li>4. Replace spark plug.</li> <li>5. Clean/replace air filter.</li> <li>6. Replace fuel filter.</li> <li>7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>8. Check all wiring.</li> <li>9. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>10. Contact an authorized service center/department.</li> </ol>
Hard to start	<ol style="list-style-type: none"> <li>1. Dirty air filter.</li> <li>2. Bad spark plug</li> <li>3. Weak or dead battery</li> <li>4. Dirty fuel filter.</li> <li>5. Stale or dirty fuel.</li> <li>6. Loose or damaged wiring.</li> <li>7. Carburetor out of adjustment</li>   <li>8. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Replace spark plug</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuel filter.</li> <li>5. Drain fuel tank and refill with fresh gasoline.</li> <li>6. Check all wiring.</li> <li>7. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>8. Contact an authorized service center/department.</li> </ol>
Engine will not turn over	<ol style="list-style-type: none"> <li>1. Clutch/brake pedal not depressed</li> <li>2. Attachment clutch is engaged.</li> <li>3. Weak or dead battery.</li> <li>4. Blown fuse.</li> <li>5. Corroded battery terminals</li> <li>6. Loose or damaged wiring.</li> <li>7. Faulty ignition switch.</li> <li>8. Faulty solenoid or starter.</li> <li>9. Faulty operator presence switch(es).</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress clutch/brake pedal.</li> <li>2. Disengage attachment clutch.</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuse.</li> <li>5. Clean battery terminals.</li> <li>6. Check all wiring.</li> <li>7. Check/replace ignition switch.</li> <li>8. Check/replace solenoid or starter</li> <li>9. Contact an authorized service center/department.</li> </ol>
Engine clicks but will not start	<ol style="list-style-type: none"> <li>1. Weak or dead battery.</li> <li>2. Corroded battery terminals.</li> <li>3. Loose or damaged wiring.</li> <li>4. Faulty solenoid or starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recharge or replace battery.</li> <li>2. Clean battery terminals.</li> <li>3. Check all wiring.</li> <li>4. Check/replace solenoid or starter.</li> </ol>
Loss of power	<ol style="list-style-type: none"> <li>1. Cutting too much grass/too fast.</li> <li>2. Throttle in "CHOKE" position.</li> <li>3. Build-up of grass, leaves and trash under mower.</li> <li>4. Dirty air filter.</li> <li>5. Low oil level/dirty oil.</li> <li>6. Faulty spark plug.</li> <li>7. Dirty fuel filter</li> <li>8. Stale or dirty fuel.</li> <li>9. Water in fuel.</li>   <li>10. Spark plug wire loose.</li> <li>11. Dirty engine air screen/fins</li> <li>12. Dirty/clogged muffler.</li> <li>13. Loose or damaged wiring.</li> <li>14. Carburetor out of adjustment.</li>   <li>15. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set in "Higher Cut" position/reduce speed.</li> <li>2. Adjust throttle control.</li> <li>3. Clean underside of mower housing.</li> <li>4. Clean/replace air filter.</li> <li>5. Check oil level/change oil.</li> <li>6. Clean and regap or change spark plug.</li> <li>7. Replace fuel filter.</li> <li>8. Drain fuel tank and refill with fresh gasoline.</li> <li>9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>10. Connect and tighten spark plug wire.</li> <li>11. Clean engine air screen/fins</li> <li>12. Clean/replace muffler.</li> <li>13. Check all wiring.</li> <li>14. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>15. Contact an authorized service center/department.</li> </ol>
Excessive vibration	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Bent blade mandrel.</li> <li>3. Loose/damaged part(s)</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Replace blade mandrel.</li> <li>3. Tighten loose part(s). Replace damaged parts.</li> </ol>

# TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	<ol style="list-style-type: none"> <li>1. Faulty operator-safety presence control system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring, switches and connections. If not corrected, contact an authorized service center/department</li> </ol>
Poor cut - uneven	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Mower deck not level.</li> <li>3. Buildup of grass, leaves, and trash under mower.</li> <li>4. Bent blade mandrel.</li> <li>5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Level mower deck.</li> <li>3. Clean underside of mower housing.</li> <li>4. Replace blade mandrel.</li> <li>5. Clean around mandrels to open vent holes.</li> </ol>
Mower blades will not rotate	<ol style="list-style-type: none"> <li>1. Obstruction in clutch mechanism.</li> <li>2. Worn/damaged mower drive belt.</li> <li>3. Frozen idler pulley.</li> <li>4. Frozen blade mandrel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove obstruction.</li> <li>2. Replace mower drive belt.</li> <li>3. Replace idler pulley.</li> <li>4. Replace blade mandrel.</li> </ol>
Poor grass discharge	<ol style="list-style-type: none"> <li>1. Engine speed too slow.</li> <li>2. Travel speed too fast.</li> <li>3. Wet grass.</li> <li>4. Mower deck not level.</li> <li>5. Low/uneven tire air pressure.</li> <li>6. Worn, bent or loose blade.</li> <li>7. Buildup of grass, leaves and trash under mower.</li> <li>8. Mower drive belt worn.</li> <li>9. Blades improperly installed.</li> <li>10. Improper blades used.</li> <li>11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place throttle control in "FAST" position.</li> <li>2. Shift to slower speed.</li> <li>3. Allow grass to dry before mowing.</li> <li>4. Level mower deck.</li> <li>5. Check tires for proper air pressure.</li> <li>6. Replace/sharpen blade. Tighten blade bolt.</li> <li>7. Clean underside of mower housing.</li> <li>8. Replace mower drive belt.</li> <li>9. Reinstall blades sharp edge down.</li> <li>10. Replace with blades listed in this manual.</li> <li>11. Clean around mandrels to open vent holes.</li> </ol>
Headlight(s) not working (if so equipped)	<ol style="list-style-type: none"> <li>1. Switch is "OFF".</li> <li>2. Bulb(s) burned out.</li> <li>3. Faulty light switch.</li> <li>4. Loose or damaged wiring.</li> <li>5. Blown fuse.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn switch "ON".</li> <li>2. Replace bulb(s).</li> <li>3. Check/replace light switch.</li> <li>4. Check wiring and connections.</li> <li>5. Replace fuse.</li> </ol>
Battery will not charge	<ol style="list-style-type: none"> <li>1. Bad battery cell(s).</li> <li>2. Poor cable connections.</li> <li>3. Faulty regulator (if so equipped).</li> <li>4. Faulty alternator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Check/clean all connections.</li> <li>3. Replace regulator.</li> <li>4. Replace alternator.</li> </ol>
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> <li>1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>

# STORAGE

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



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

## TRACTOR

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

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

## BATTERY

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

## ENGINE

### FUEL SYSTEM

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

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

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

### ENGINE OIL

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

### CYLINDERS

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

## OTHER

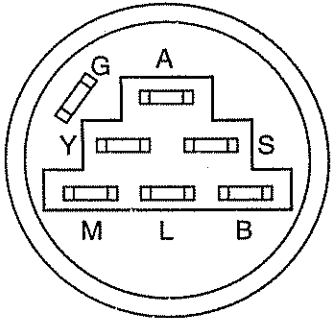
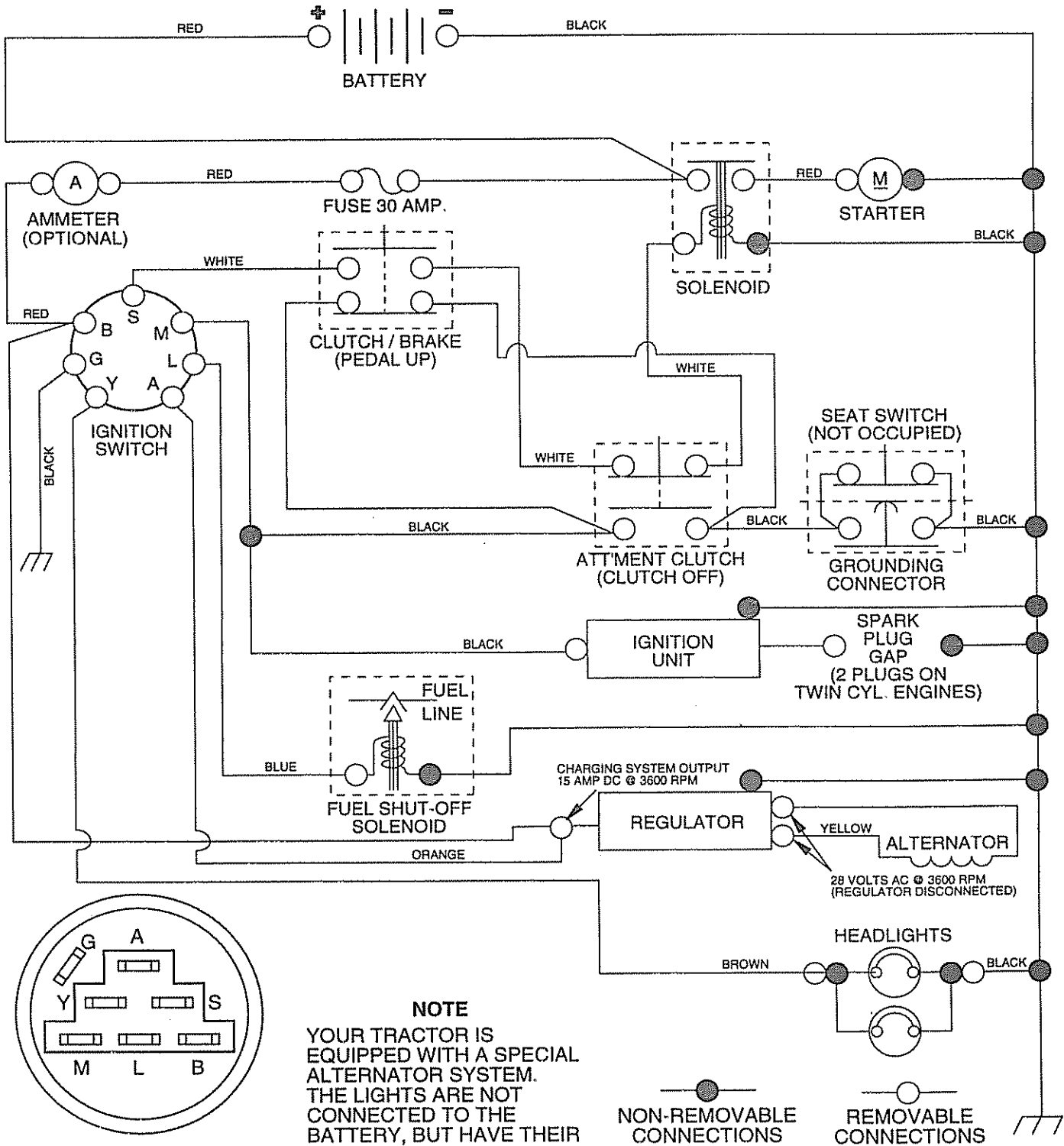
- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective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

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

# SERVICE NOTES

# TRACTOR -- MODEL NUMBER 917.258580

## SCHEMATIC



**IGNITION SWITCH**

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

**NOTE**  
 YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



**WIRING INSULATED CLIPS**  
**NOTE:** IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.





# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	144926	Battery
2	74760412	Bolt, Hex 1/4-20 UNC x 3/4
3	STD551025	Washer
4	STD551125	Washer
6	STD541025	Nut
7	7697J	Tube, Plastic
8	7603J	Tray, Battery
9	109596X	Clamp, Hose
10	145211	Bolt, Btr. Frt 1/4-20 x 7.5
11	150109	Holddown Btr. Front Mount
12	145769	Nut, Push Nylon 1/4" Battery
16	153664	Switch Interlock Push-In
19	STD551125	Washer, Lock
20	73350400	Nut, Hex, Jam 1/4-20 UNC
21	136850	Harness, Light Socket W/4152J
22	4152J	Bulb, Light
24	146148	Cable, Battery
25	146136	Cable Battery
26	108824X	Fuse
28	145491	Cable, Ground
29	121305X	Switch, Plunger
30	140301	Switch, Ignition
31	124211X	Nut, Ignition
32	141226	Cover, Ignition Switch
33	109310X	Key, Ignition
40	156149	Harness, Ignition
41	71110408	Bolt Blk Fin Hex 1/4-20 UNC x 1/2
42	131563	Cover, Terminal
43	145673	Solenoid
44	73640400	Nut, Keps Blk Hex 1/4-20 UNC
45	122822X	Ammeter Rectangular 15 Amp
55	17490508	Screw Thdrol 5/16-18 x 1/2 TYT
70	140426	Harness Engine Koh. Cmd-L. 15 AR

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



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### CHASSIS AND ENCLOSURES

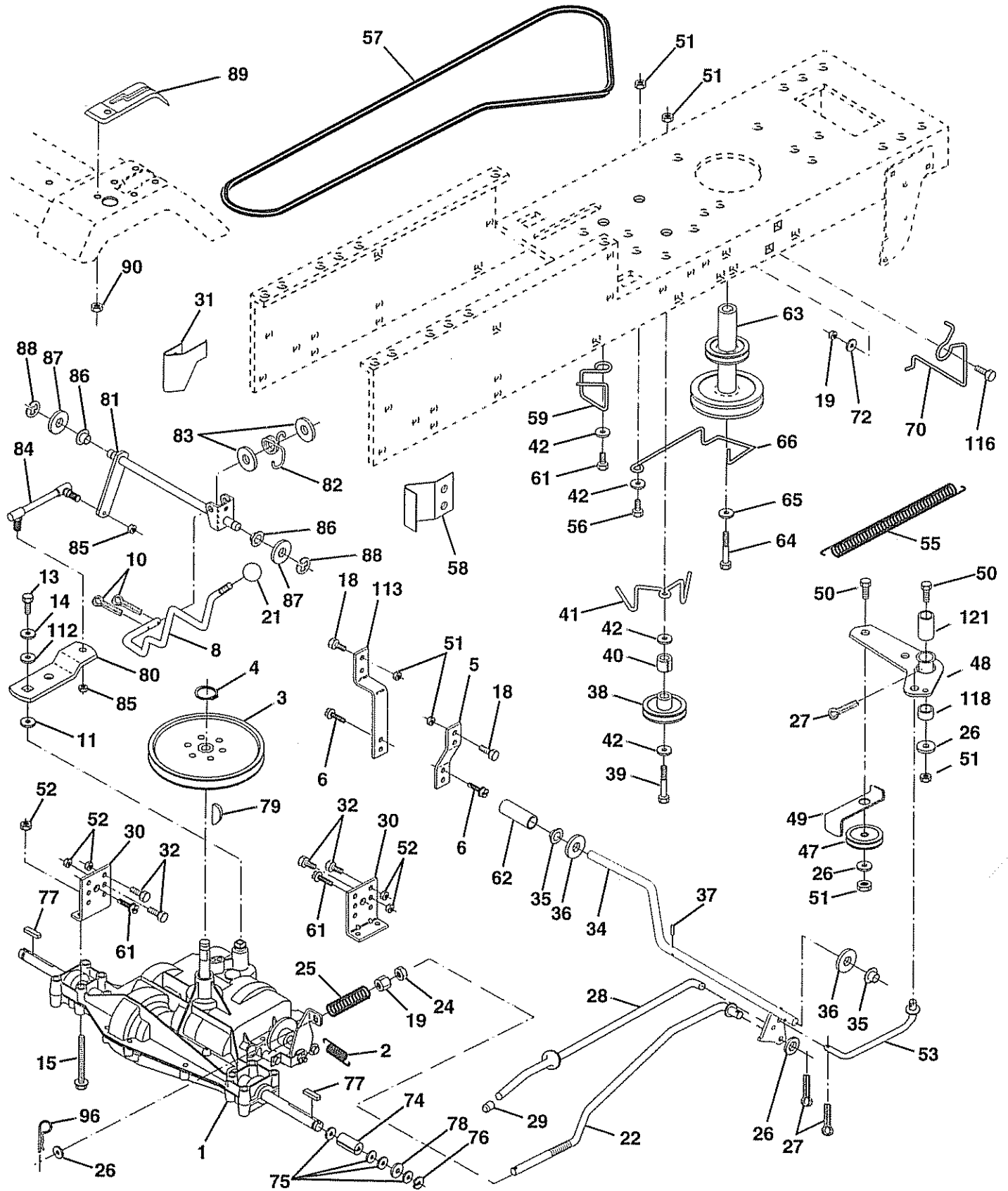
KEY NO.	PART NO.	DESCRIPTION
1	155051	Chassis
2	140356	Drawbar
3	17490612	Screw, Thdrol. 3/8-16 x 3/4 Type TT
6	155923	Saddle
8	126471X	Clip, Fuel Line
9	145203	Dash, Plastic
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	145218	Panel, Dash, LH
13	145217	Panel, Dash, RH
17	136673X558	Hood Assembly
24	STD523710	Bolt
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Nut
28	136373X428	Grill
29	136374	Lens, Bar, Clear
30	140002X558	Fender
31	137113	Bracket Assembly, Fender
33	145244X558	Footrest, LH
34	145243X558	Footrest, RH
35	STD533707	Bolt
36	108067X	Nut, Pal
38	139886	Bracket Assembly, Pivot, LH
39	139887	Bracket Assembly, Pivot, RH
44	140675	Fender Strap
47	105531X	Nut, Push, Nylon
50	137304	Rod, Support Hood
59	110436X	Bushing, Snap, Split
64	150272	Dash, Lower
66	156276X012	Plate, Dash
71	73640400	Nut
73	17580408	Screw Tap Tite 1/4-20 x 1/2
86	136670X558	Panel Assembly, RH
87	136671X558	Panel Assembly, LH
90	STD551025	Washer 9/32 x 3/4 x 16 Ga.
114	145349	Bracket, Support, Dash
115	121794X	Cover, Access
117	144283	Washer Serrated Disk 13/32 x 1
119	19092016	Washer 9/32 x 1-1/4 x 16 Ga.
120	137271	Rivet, Ratchet, Female
121	137269	Washer, Nylon
122	137270	Rivet, Ratchet, Male
123	157105	Bracket Weldment Pivot Hood LH
124	157107	Bracket Weldment Pivot Hood RH
125	74180412	Screw, Machine 1/4-20 x 3/4
118	145595	Bracket, Clutch, Mech. Srs. YT 95
140	158418	Bracket Suspension Front
--	5479J	Plug Btn. Blk 359 Dia. Ch/Inf.

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

# REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.258580

## DRIVE



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### DRIVE

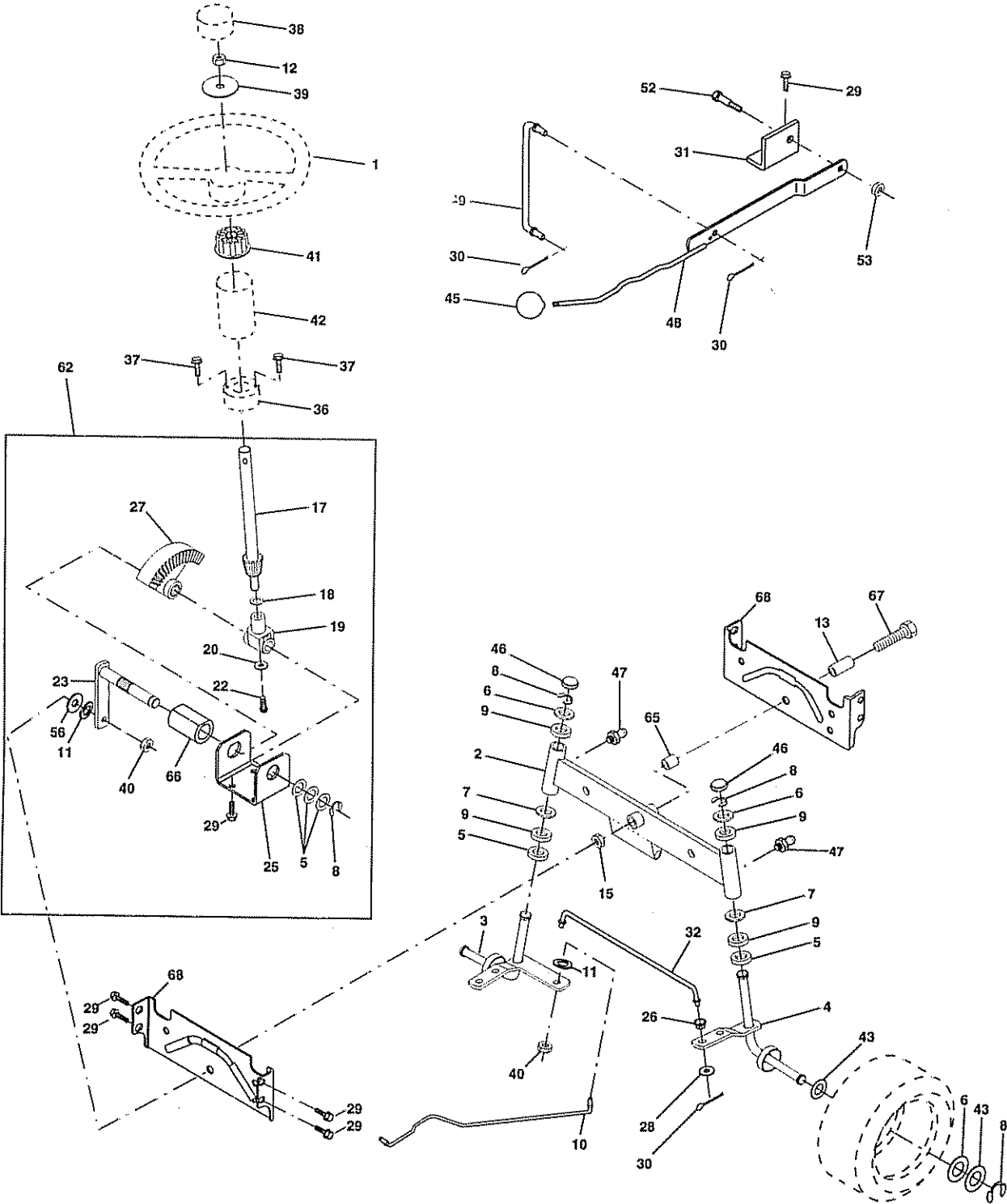
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	-----	Transaxle, (See Breakdown) Peerless, Model Number 930-057A	52	STD541431	Nut Crown Lock 5/16-18 UNC
2	146682	Spring, Return, Brake	53	105710X	Link, Clutch
3	123666X	Pulley, Transaxle	55	105709X	Spring, Clutch Return
4	12000028	Ring, Retainer	56	STD523712	Bolt Fin Hex 3/8-16 x 1-1/4
5	121520X	Strap, Torque	57	130801	V-Belt, Ground Drive
6	17490512	Screw, Thd., Roll. 5/16-18 x 3/4	58	127274X	Keeper, Belt, R.H.
8	141002	Lever, Shift	59	140312	Keeper, Belt, Center Span
10	STD561210	Pin, Cotter	61	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
11	105701X	Washer, Shift Plate	62	8883R	Cover, Pedal
13	74550412	Bolt 1/4-28 UNF W/Patch Grade 8	63	140186	Pulley, Engine
14	STD551125	Washer	64	71170764	Bolt, Hex 7/16-20 x 4 Gr. 5
15	74490544	Bolt Hex Flghd 5/16-18 Gr. 5	65	STD551143	Washer
18	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5	66	154778	Keeper, Belt, Engine, F-Proof
19	STD541437	Nut	70	156470	Guide, Mower Drive Belt, R.H.
21	106933X	Knob	72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
22	130804	Rod, Brake	74	137057	Spacer, Axle
24	STD541237	Nut	75	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
25	106888X	Spring, Brake Rod	76	STD581075	E-Ring
26	STD551037	Washer	77	123583X	Key, Square 2.0 x .1845/.1865
27	STD561210	Pin	78	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
28	145204	Rod, Parking Brake	79	2228M	Key Woodruff #9 3/16 x 3/4
29	124236X	Cap, Parking Brake, Red	80	145090	Arm, Shift
30	130807	Bracket, Transaxle	81	145092	Shaft Assembly
31	127275X	Keeper, Belt, L.H.	82	123782X	Spring, Torsion
32	STD523107	Bolt	83	19171216	Washer 17/32 x 3/4 x 16 Gauge
34	155071	Shaft Assembly, Foot Pedal	84	145643	Tie Rod
35	120183X	Bearing, Nylon	85	150360	Nut, Lock Center 1/4-28 FNTHD
36	STD551062	Washer	86	71208	Bushing, Pivot
37	STD571810	Roll Pin	87	19212016	Washer
38	123674X	Pulley, Idler, Flat	88	12000008	E-Ring
39	STD523727	Bolt	89	139991	Console, Shift, 6 Speed
40	4470J	Spacer, Split .395 x .59	90	124346X	Nut, Self-Threading, Washer Hd 1/4
41	154777	Keeper, Belt, Idler	96	STD624003	Retainer Spring 1" Zinc Cad
42	19131312	Washer 13/32 x 13/16 x 12 Gauge	112	19091210	Washer 9/32 x 3/4 x 10 Gauge
47	127783	Pulley, Idler, V-Groove, Plastic	113	127285X	Strap Torque LT
48	154604	Bellcrank Assembly	116	72110610	Bolt Rdhd Sq Neck 3/8-16 x 1.25
49	123205X	Retainer, Belt	118	154774	Spacer Bellcrank
50	STD523715	Bolt	121	154419	Nyliner Clutching STL
51	STD541437	Nut Crown Lock 3/8-16 UNC			

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

# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### STEERING ASSEMBLY



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### STEERING ASSEMBLY

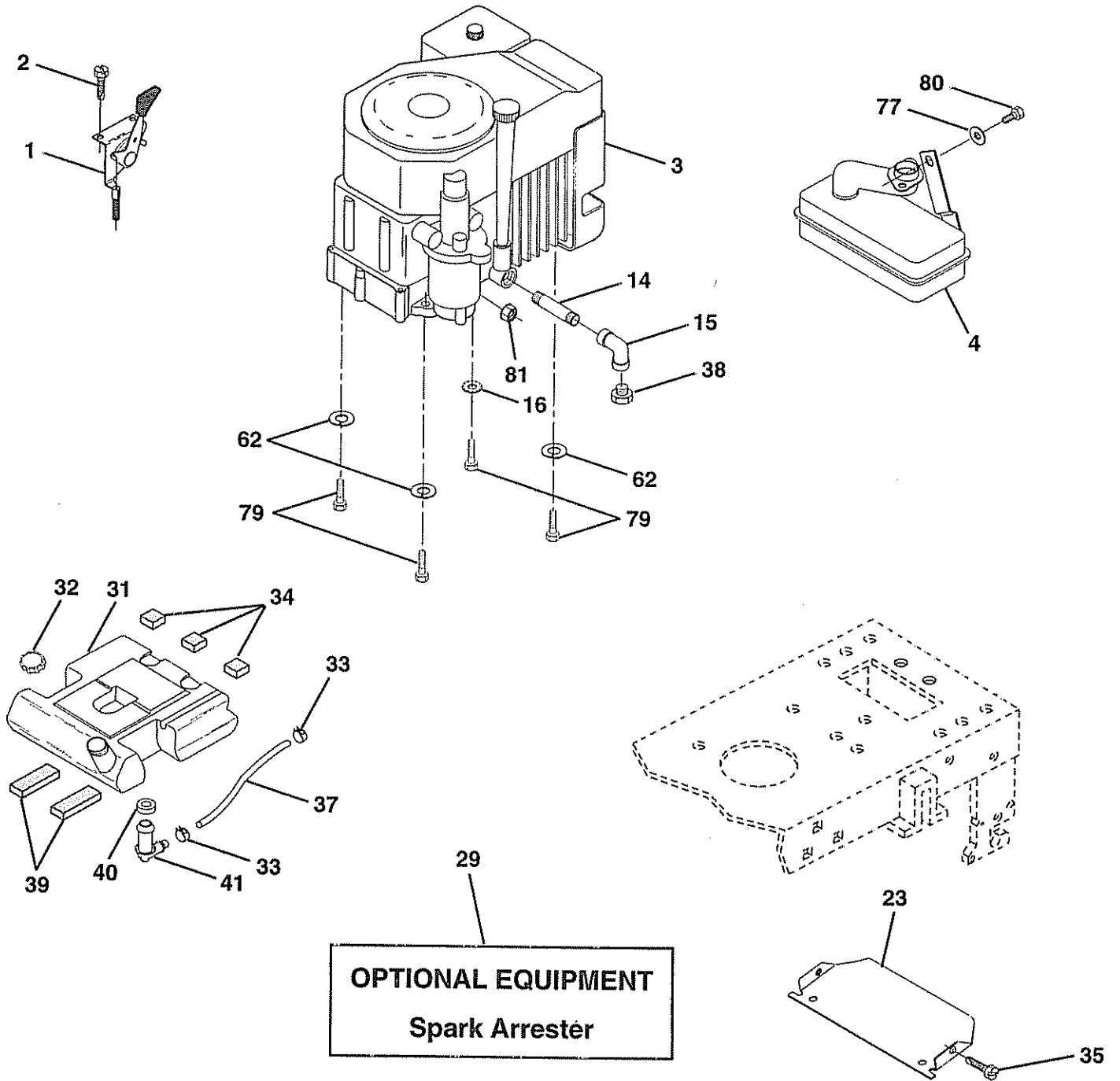
KEY NO.	PART NO.	DESCRIPTION
1	121472X	Steering Wheel
2	154427	Axle Asm. STMP Dropped STL
3	154422	Spindle Assembly, LH
4	154423	Spindle Assembly, RH
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing
10	156438	Link, Drag
11	STD551137	Washer, Lock
12	STD541350	Nut
13	154779	Bearing Axle STLT/GT
15	73901000	Locknut, Hex, Jam, w/Washer Insert 5/8-11 UNC
17	156543	Shaft Assembly, Steering
18	57079	Washer, Thrust .515 x .750 x .033
19	124035X	Support, Shaft
20	126684X	Washer, Shim 1/4 x 5/8 x .062
22	71200410	Screw, Hex Socket 1/4-20 x 5/8
23	127501	Shaft Assembly, Pittman
25	154406	Bracket, Steering
26	126847X	Bushing Link Drag Blk.
27	136874	Gear, Sector
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17490612	Screw, Thdrol 3/8-16 x 3/4
30	STD561210	Pin Cotter 1/8 x 3/4 Cad.
31	138171	Bracket, Pvt. Man. Cl. Lvr. V2 Sears
32	130465	Tie Rod
36	145207	Bushing, Steering
37	152927	Screw TT #10-32 5 3/8 Flange
38	126805X	Insert, Cap, Steering Wheel
39	100712K	Washer .53 x 2.25 x .160
40	STD541537	Nut, Lock Center 3/8-24 Unf
41	100711L	Adapter, Steering Wheel
42	140216	Column, Steering
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
45	106933X	Knob, Custom Rd
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
48	146841	Lever Asm. Clutch Mwr Srs. YT GE
49	131291	Link Clutch w/Nibs 5.688 Zinc
52	106451X	Bolt, Shoulder 3/8-16 UNC Gr.2
53	STD541437	Nut Crownlock 3/8-16 UNC
62	156595	Kit, Steering Assembly
65	154780	Spacer Axle
66	154404	Bearing Axle STLT/GT
67	74781044	Bolt Fin Hex 5/8-11 Unc x 2-3/4
68	154429	Brace Axle

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

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

## ENGINE





# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### ENGINE

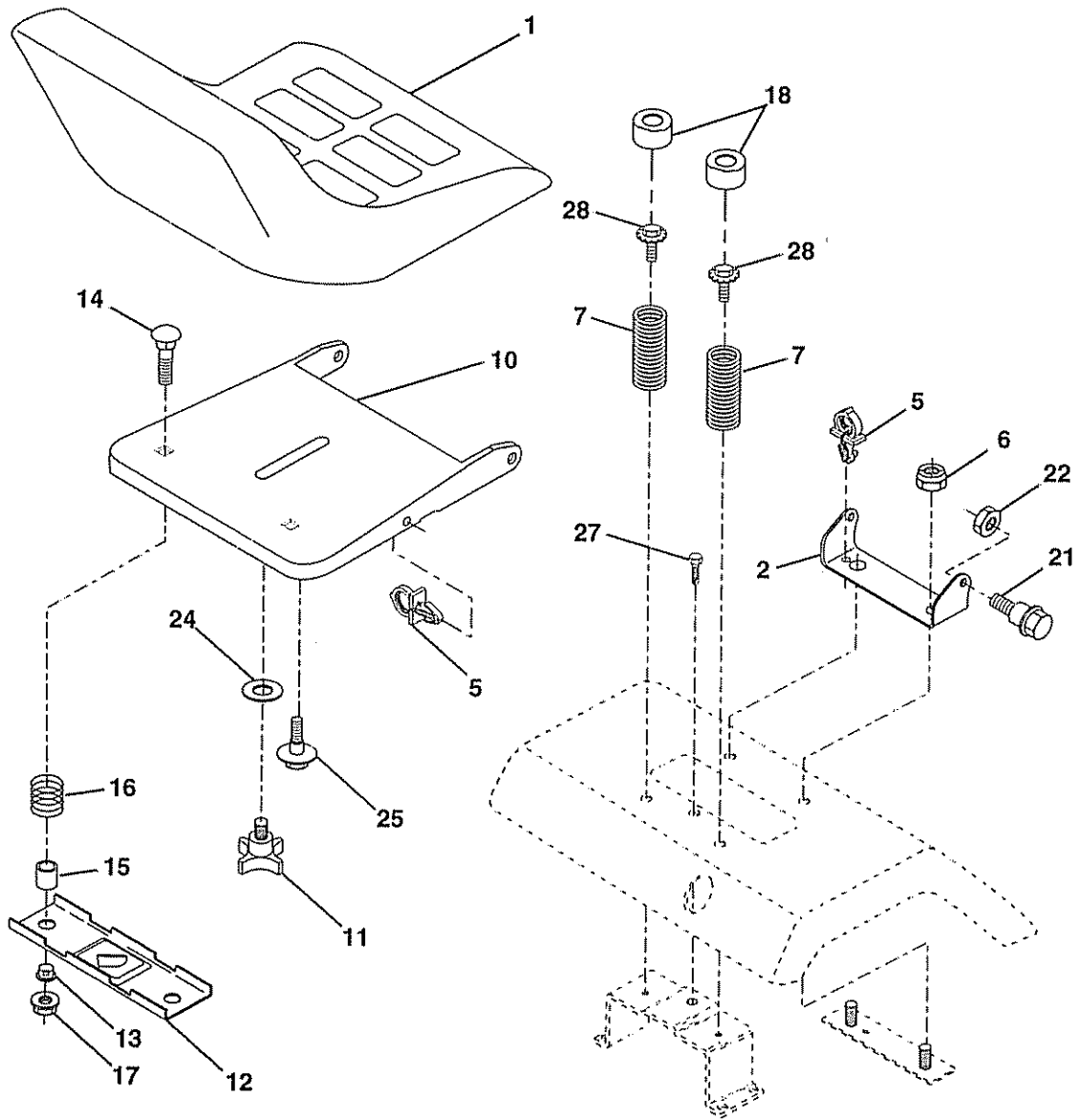
KEY NO.	PART NO.	DESCRIPTION
1	134265	Control, Throttle
2	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3	-----	Engine (See Breakdown) Kohl Model No. CV15S Type No PS-43509
4	159420	Muffler
14	13280328	Nipple, Pipe 3/8 NPT x 3-1/2
15	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	STD551231	Lockwasher 5/16
23	156123	Shield, Browing
29	137180	Arrestor, Spark
31	151346	Tank, Fuel
32	152334	Cap Assembly, Fuel Tank, w/Gauge
33	123487X	Clamp, Hose
34	106082X	Pad Spacer 1 x 1 x 1 Blk.
35	17490512	Screw Thdrol 5/16-18 x 3/4 Tyt
37	8543R	Line, Fuel
38	---	Plug, Oil Drain (Order From Engine Manufacturer)
39	109227X	Pad Idler 1.75 x .75 x .06
40	3645J	Bushing
41	139277	Stem, Tank, Fuel
62	STD551131	Lockwasher 5/16
77	19101216	Washer 5/16 x 3/4 x 16 Ga.
79	M740108025	Screw Thdrol 3/8-16 x 1-1/4
80	74760508	Bolt Hex Hd 5/16-18 UNC x 1/2
81	128861	Nut Flange 1/4-20 UNC Starter Nut

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

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 917.258580

### SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket, Pivot, Seat
5	145006	Clip Push-In
6	STD541437	Nut
7	124181X	Spring, Seat
10	155925	Pan, Seat
11	120068X	Knob, Seat
12	121246X	Bracket, Switch Mounting
13	121248X	Bushing, Snap, Nylon
14	72050411	Bolt, Carriage 1/4-20 x 1-3/8
15	134300	Spacer, Split

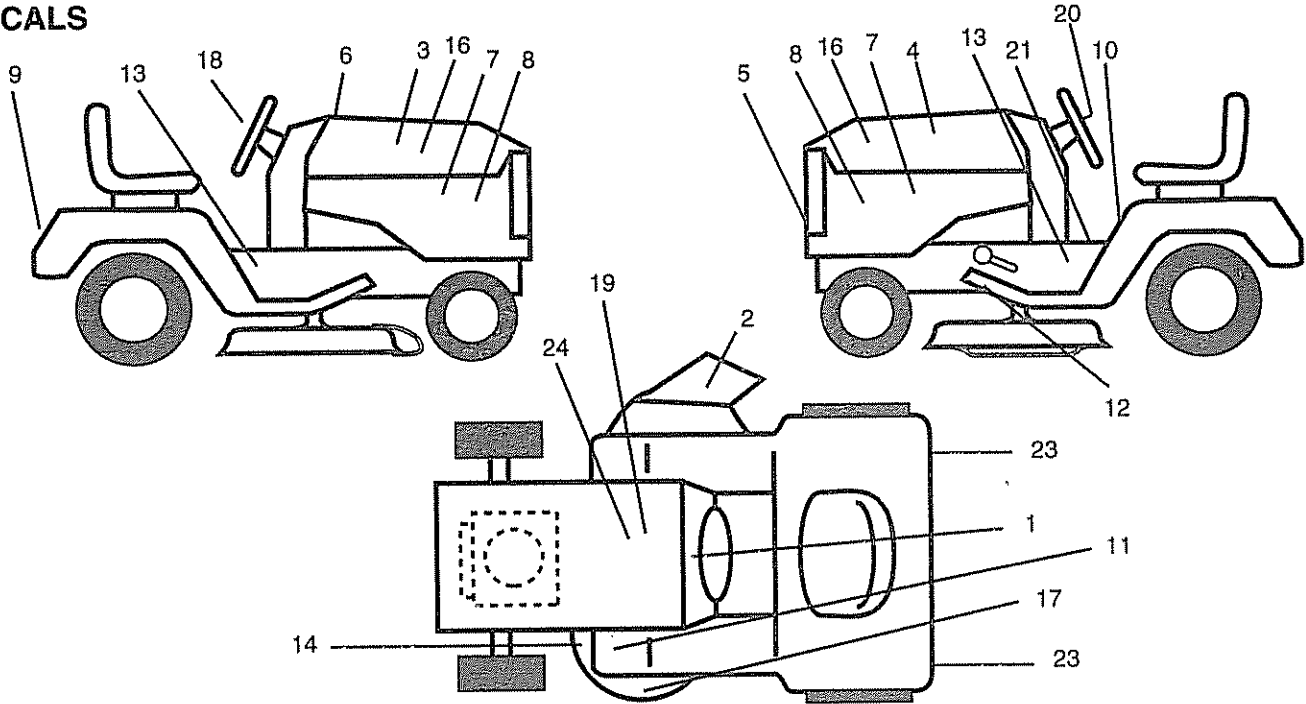
KEY NO.	PART NO.	DESCRIPTION
16	121250X	Spring
17	123976X	Nut, Flangelock 1/4 Grade 5
18	124238X	Cap, Spring, Seat
21	153236	Bolt, Shoulder 5/16-18 UNC-2A
22	STD541431	Nut
24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
25	127018X	Bolt, Shoulder 5/16-18 x .62
27	17490608	Screw Thdrol. 3/8-16 x 1/2
28	150176	Bolt 5/16-18 UNC x 3/4 w/Sems

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

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 917.258580

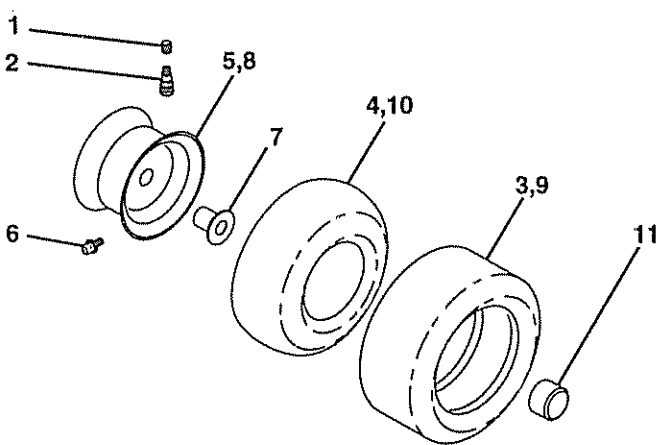
### DECALS



KEY NO.	PART NO.	DESCRIPTION
1	156834	Decal, Operating Instruction
2	156787	Decal, Deck Mower EZ3 Polo
3	146705	Decal, Hood, Craftsman, RH
4	146706	Decal, Hood, Craftsman, LH
5	151400	Decal, Grille
6	133644	Decal, Maintenance
7	138048	Decal, Side Panel
8	142241	Decal, Pnl, Side Kohler Command
9	146709	Decal, Fender, Craftsman
10	156439	Decal, Fender Danger
11	4900J	Decal, Clutch/Brake
12	146046	Decal, V-Belt Drive Schematic
13	151452	Decal, Chassis 46 Sp Srs. Polo

KEY NO.	PART NO.	DESCRIPTION
14	139346	Decal, V-Belt Schematic
16	159408	Decal Ins. Hood
17	133179	Decal, Mower Q-C System
18	146710	Decal, Insert Strg
19	138047	Decal, Battery
20	150333	Decal, Cap Cnsmr Help Line Srs.
21	140837	Decal Brake Parking Saddle
23	106202X	Reflector, Taillight
24	149516	Decal, Battery Danger/Poison Eng Acme
--	138311	Decal, Handle Lift Height Adj.
--	145247	Fastener Pop-In Footrest
--	145245	Decal, Pad Footrest
--	157077	Manual, Owner's (Eng)
--	157078	Manual, Owners (Span)

### WHEELS & TIRES



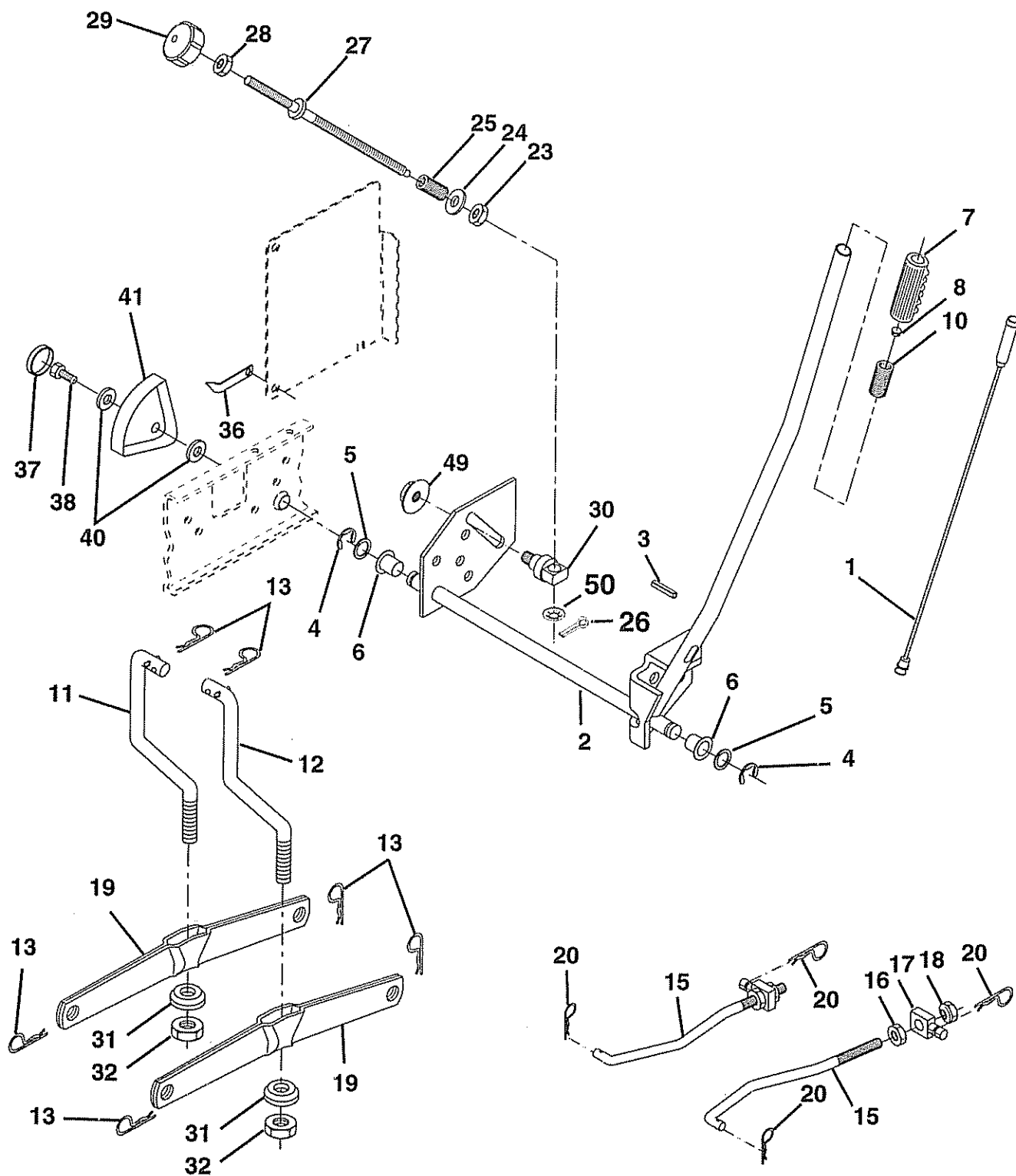
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front (Service Item Only)
5	106732X427	Rim Assembly, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim Assembly, Rear
9	122082X	Tire,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

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

# REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.258580

## MOWER LIFT



# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

## MOWER LIFT

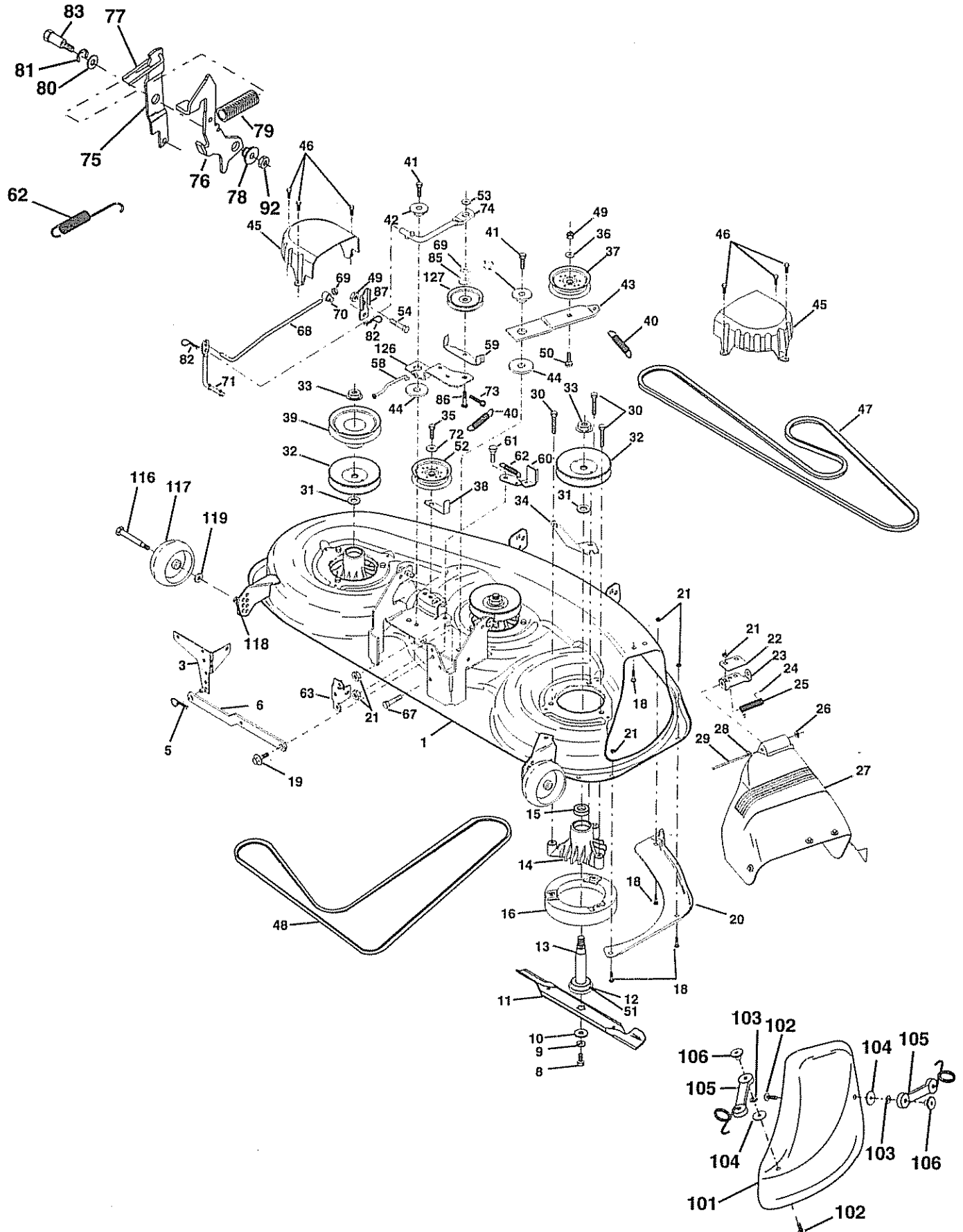
KEY NO.	PART NO.	DESCRIPTION
1	136971	Wire Asm., Inner w/plunger
2	136968	Shaft Asm Lift
3	138284	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 21/32 X 1 X 21 Ga
6	120183X	Bearing Nylon
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
10	122512X	Spring Cprsn
11	139865	Link Lift Lh
12	139866	Link Lift Rh
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73800800	Nut Lock W/Wsh 1/2-13 Unc
19	139868	Arm Suspension Rear
20	STD624008	Spring Retainer
23	110807X	Nut Special
24	19131016	Washer 13/32 X 5/8 X 16 Ga
25	STD560907	Spring"
26	STD560907	Pin Cotter 3/32 x 1/2
27	137167	Rod Adjust Lift
28	73350600	Nut Hex Jam 3/8-16 Unc
29	138057	Knob Infinite 3/8-16 Unc Black
30	150233	Trunnion Dp Stop Dbl Thds Plt
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut, Crownlock 3/8-24
36	155097	Pointer, Height Indicator
37	123935X	Plug, Hole
38	17490512	Screw Thdrol 5/16-18 x 3/4
40	19112410	Washer 11/32 x 1-1/2 x 10 Gauge
41	123934X	Scale, Height Indicator
49	145212	Nut Hex Flange Lock
50	110452X	Nut Push Phos & Oil

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

# REPAIR PARTS

## TRACTOR -- MODEL NUMBER 917.258580

### MOWER DECK



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### MOWER DECK

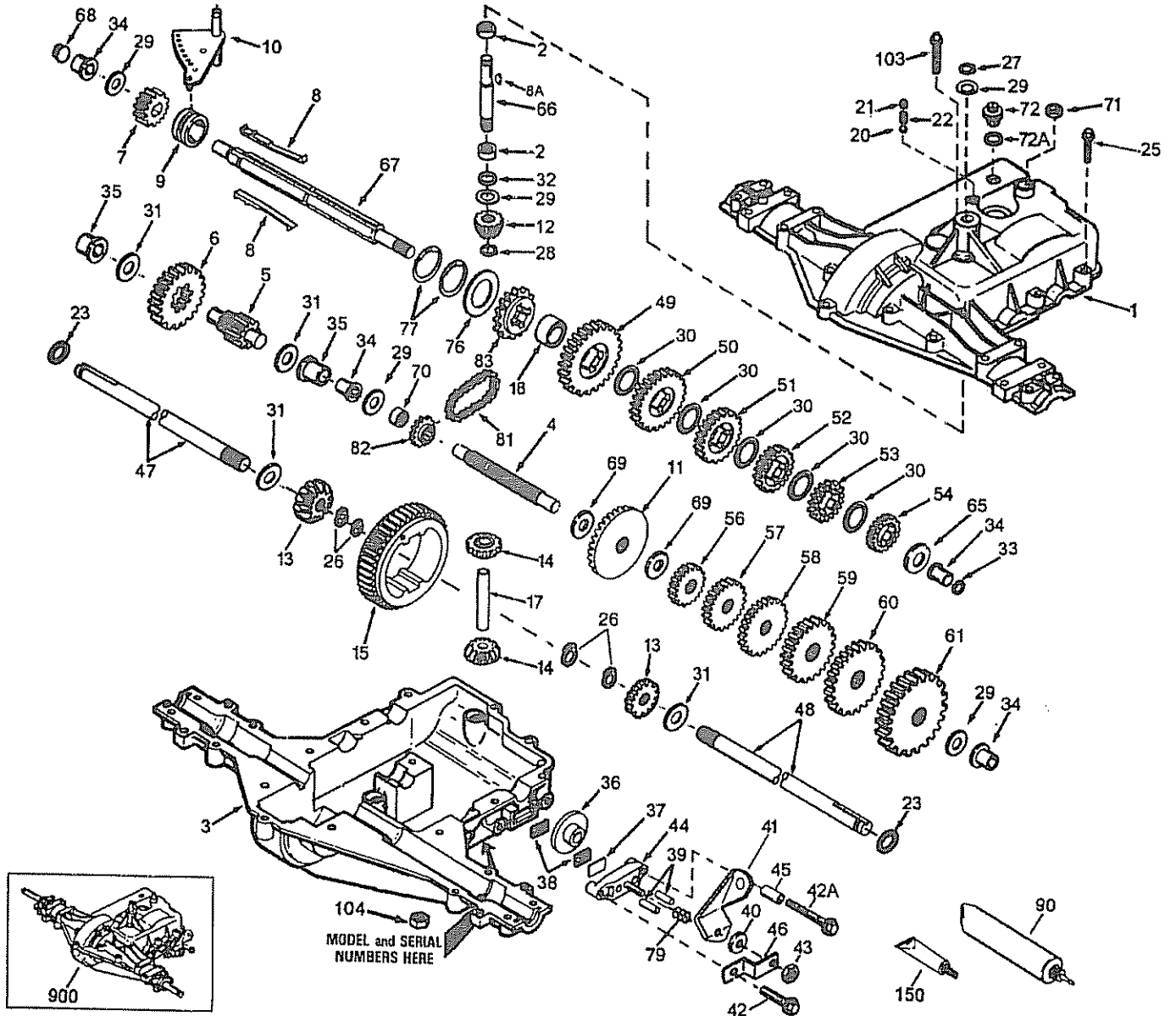
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156948	Deck Asm., Mower 46"	52	156493	Pulley, Idler, Flat, 46 Pri. Drive
3	138457	Bracket Asm., Sway Bar	53	19131312	Washer, 13/32 x 13/16 x 12 Ga.
5	STD624008	Retainer Spring	54	STD523710	Bolt, Fin. Hex 3/8-16 x 1 Gr. 5
6	130832	Arm, Suspension, Rear (Sway Bar)	55	72140608	Bolt, RDHD Sqnk. 3/8-16 UNC x 1
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8	58	156488	Link, Brake 46" Mech
9	STD551137	Washer, Lock Hvy., Unplated 3/8	59	157034	Guide, Belt 46" Mower
10	140296	Washer, Hard Blade, Mower Vented	60	156722	Arm Assm. Brake 46"
11	152443	Blade, 46" Mower Deck	61	139888	Bolt, Shoulder 5/16-18 Type TT
12	129895	Bearing, Ball, Mandrel #6204	62	131870	Spring Return
13	137553	Shaft Asm. w/Lower Bearing (Includes Key No. 12)	63	156473	Bracket, Clutch Rod Pivot
14	137152	Housing, Mandrel	67	STD523107	Bolt, Hex Head 5/16-18 x 3/4
15	110485X	Bearing, Ball, Mandrel	68	156487	Rod, Clutch
16	140329	Stripper, Mower Round	69	73350600	Nut, Hex Jam 3/8-16 Unc
18	STD533106	Bolt, Carriage 5/16-18 x 5/8	70	142028	Trunnion, Adj. 94
19	132827	Bolt, Hex Head, Shoulder 5/16-18	71	133551	Rod, Pivot with Nibs
20	145055	Baffle, Vortex Mower 46"	73	STD561210	Pin, Cotter 1/8 x 3/4
21	STD541431	Nut, Crownlock 5/16-18 UNC	74	156474	Link, Clutch 46" Mech.
22	134753	Stiffener, Bracket	75	127847	Arm, Clutch Secondary
23	131267	Bracket, Deflector	76	154808	Lever, Assm. Clutch Primary
24	105304X	Cap, Sleeve	77	127845	Keeper, Spring
25	123713X	Spring, Torsion, Deflector	78	127498	Bushing, .747 OD. x .794 ID.
26	110452X	Nut, Push	79	153701	Spring, Mower Clutch
27	157788	Shield, Deflector Mower	80	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	81	12000029	Ring, Clip
29	131491	Rod, Hinge	82	STD624003	Retainer Spring 1"
30	138776	Screw, Hex Head, Thdroll	83	129803	Bolt, Shoulder 3/8-16 Unc
31	129963	Washer, Spacer Mower Vented	85	STD551137	Washer Lock Hvy HCLC Spr. 3/8
32	153531	Pulley, Mandrel	86	158565	Bolt Carr. SH 3/8-16 x 2.0 Gr. 5
33	137266	Nut, Flg. Top Lock Cntr. 9/16	87	158373	Bracket, Extension
34	144945	Anchor, Spring Deck 46"	92	STD541437	Locknut, Hex, w/Insert 3/8-16 UNC
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt	101	145579	Cover, Mulching
36	STD551037	Washer 13/32 x 13/16 x 16 Ga.	102	71161010	Screw
37	131494	Pulley, Idler, Flat	103	10071000	Washer, Lock #10
38	156086	Keeper, Belt, Idler	104	19061216	Washer
39	144917	Pulley, Idler, Driven	105	130758	Latch Asm. Bagger
40	137273	Spring, Secondary 44/46/50 Vent	106	2029J	Nut, Weld
41	17490620	Screw, Thdroll 3/8-16 x 1-1/4 Tytt	116	137644	Bolt, Shoulder
42	122052X	Spacer, Retainer	117	133957	Gauge Wheel, Wide
43	144949	Arm, Idler Secondary	118	73930600	Nut, Centerlock 3/8-16 UNC
44	133943	Washer, Hardened	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
45	145059	Cover, Mandrel Deck	126	156472	Arm, Idler, Deck 46" Mech.
46	137729	Screw, Thdroll. 1/4-20 x 5/8	127	146763	Pulley, Idler, V-Groove Dim. 4.25
47	144959	V-Belt, Mower, Secondary	---	156948	Deck Complete (Std. Deck-Order separately mulcher plate and gauge wheel components Key Nos. 101-106 and 116-118)
48	158818	V-Belt, Mower, Primary	---	143651	Mandrel Assm. Service
49	STD541437	Nut, Crownlock 3/8-16 UNC			
50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5			
51	153390	Washer, Felt			

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

# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

PEERLESS TRANSAXLE - MODEL NUMBER P930-057A





# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

PEERLESS TRANSAXLE - MODEL NUMBER P930-057A

REF PART NO.	PART NO.	DESCRIPTION	REF PART NO.	PART NO.	DESCRIPTION
1	772108A	Cover, Transaxle	43	792075	Locknut 5/16-24
2	780086A	Bearing, Needle	44	790025	Holder, Brake Pad
3	770102A	Case, Transaxle	45	786066	Spacer
4	776260A	Shaft, Counter	46	786086	Bracket, Brake Lever
5	776219B	Shaft and Pinion Assembly, Output	47	774690	Axle 11-5/16" long
6	778139	Gear, Output, 35 Teeth	48	774691	Axle 16-1/2" long
7	778136	Gear, Spur, 15 Teeth, Steel	49	778215	Gear, Spur, 37 Teeth, Steel (1 <sup>st</sup> )
8	792136A	Key, Shift	50	778125	Gear, Spur, 35 Teeth (2 <sup>nd</sup> )
8A	792047	Key, Woodruff	51	778124A	Gear, Spur, 30 Teeth (3 <sup>rd</sup> )
9	784352	Collar, Shifter	52	778123A	Gear, Spur, 25 Teeth (4 <sup>th</sup> )
10	784355	Rod and Fork Assembly, Shift	53	778122A	Gear, Spur, 22 Teeth (5 <sup>th</sup> )
11	778229	Gear, Bevel, 42 Teeth	54	778273	Gear, Spur, 19 Teeth, Steel (6 <sup>th</sup> )
12	778113A	Bevel Pinion, Input	56	778230	Gear, Spur, 12 Teeth, Steel (1 <sup>st</sup> )
13	778221	Gear, Bevel, 16 Teeth	57	778151	Gear, Spur, 15 Teeth (2 <sup>nd</sup> )
14	778068	Gear, Bevel Pinion	58	778126A	Gear, Spur, 20 Teeth (3 <sup>rd</sup> )
15	778260	Gear, Ring	59	778127A	Gear, Spur, 25 Teeth (4 <sup>th</sup> )
17	786139	Pin, Drive	60	778128A	Gear, Spur, 28 Teeth (5 <sup>th</sup> )
18	786102	Spacer, Neutral	61	778163	Gear, Spur, 31 Teeth (6 <sup>th</sup> )
20	792077	Ball, Steel 5/16" diameter	65	780109	Washer, Thrust
21	792078	Set Screw 3/8-16 x 3/8	66	776135	Shaft, Input
22	792079	Spring	67	776315A	Shaft, Brake, 4 Keyed
23	788061	Ring, Seal	68	786116A	Plug
25	792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4	69	780051	Washer, Thrust
26	792125	Ring, Retainer (4 Required, Package of 2)	70	786118	Spacer
27	792035	Ring, Retainer	71	788069	Square Cut Ring
28	788040	Ring, Retainer	72	792165	Plug, Threaded 9/16-18
29	780072	Washer, Thrust	72A	788091	"O" Ring
30	780108	Washer, Thrust	76	780090	Washer, Thrust
31	780001	Washer	77	788078A	Ring, Retaining, Inverted (Package of 2)
32	792001	"O" Ring	79	792144	Spring, Brake
33	788095	Seal, Square Cut	81	786081	Chain, Roller (Number 41 Chain, 24 Links)
34	780105A	Bushing, Flanged	82	786082	Sprocket, 9 Teeth (Reverse)
35	780118A	Bushing, Flanged	83	786123	Sprocket, 18 Teeth (Reverse)
36	790003	Disk, Brake	90	788067B	Grease, Bentonite, 32 Ounce Bottle
37	790007	Plate, Brake Pad	103	792166	Screw 1/4-20 x 2
38	799021	Pad, Brake (Package of 2)	104	792167	Locknut 1/4-20
39	786026	Pin, Dowel	150	788093	Gasket Eliminator (Loctite #515)
40	792076A	Washer, Flat	900	794602	Replacement Transaxle
41	790079	Lever, Brake			
42	792073	Screw, Flanged Hex Head, Thread Forming 1/4-20 x 1-1/4			
42A	792085A	Screw 1/4-20 x 2-1/4			

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

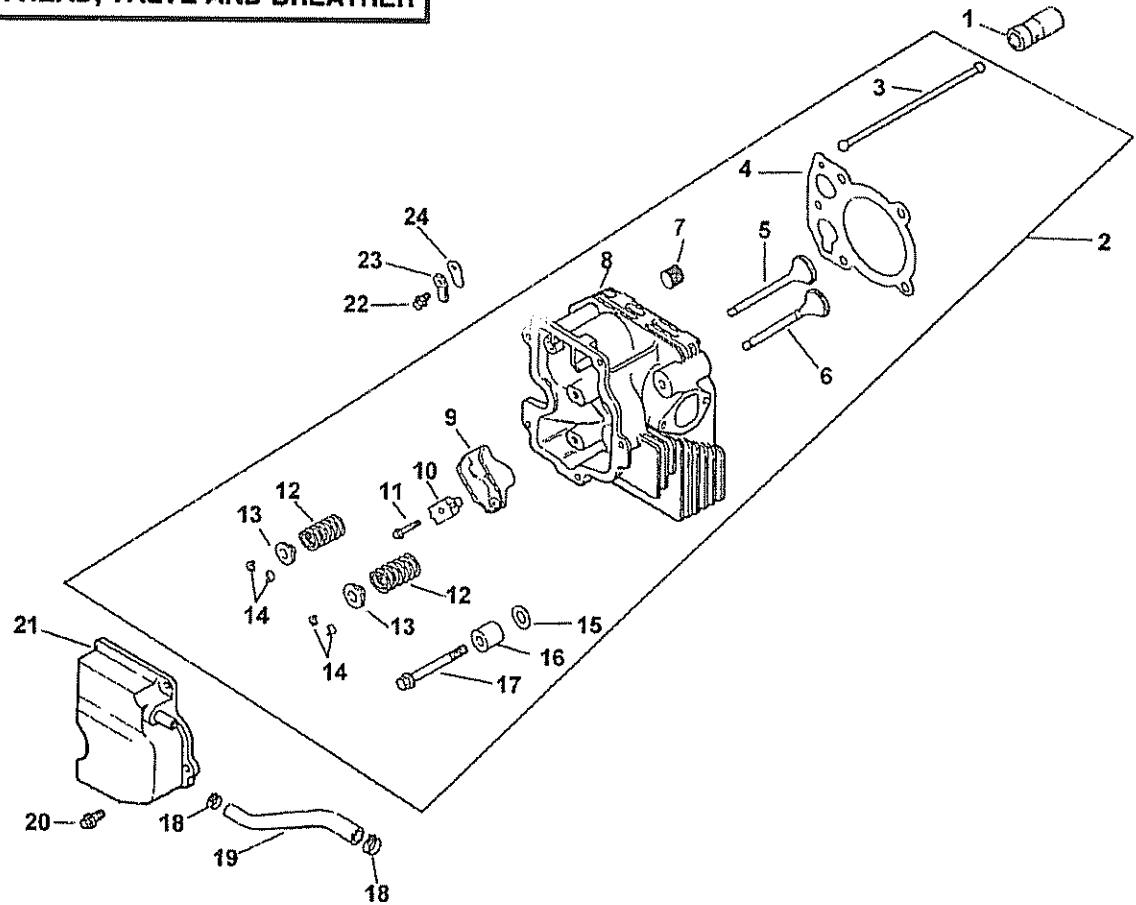
Parts must be ordered from Tecumseh Products Co.

# REPAIR PARTS

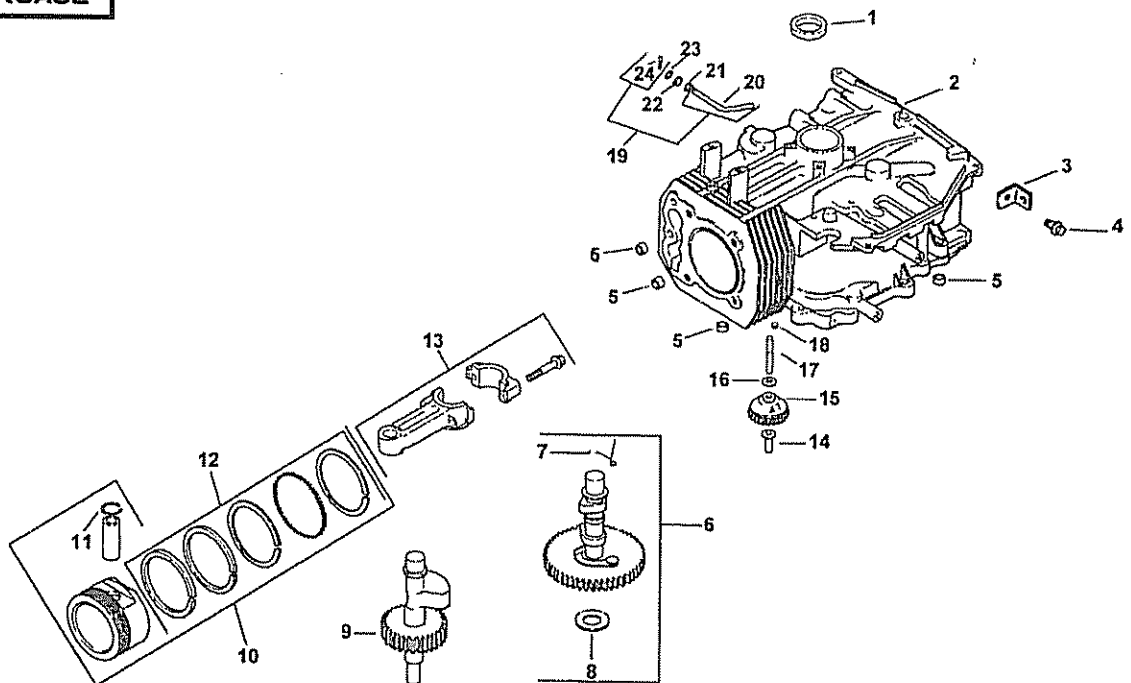
TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

## CYLINDER HEAD, VALVE AND BREATHER



## CRANKCASE



# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

## CYLINDER HEAD/VALVE/BREATHER

KEY NO.	PART NO.	DESCRIPTION
1	12 351 02	Lifter, valve (2)
2	12 755 63	Kit, cylinder head (Includes 3-17)
3	12 411 01	Rod, push (2)
4	12 041 10	Gasket, cylinder head
5	12 017 01	Valve, intake (Std.)
	12 017 02	Valve, intake (.25)
6	12 016 01	Valve, exhaust (Std.)
	12 016 02	Valve, exhaust (.25)
7	X-75-23	Plug, allen hd. pipe 1/8
8	12 318 19	Cylinder Head
9	25 186 01	Arm, rocker (2)
10	12 599 03	Pivot, rocker arm (2)
11	M-0640034	Screw, hex. flange M6x1.0x34 (2)
12	12 089 01	Spring, valve (2)
13	12 173 01	Cap, valve spring (2)
14	12 755 03	Kit, retainer (2)
15	12 468 05	Washer, plain 13/32
16	12 112 13	Spacer, head bolt exhaust port
17	12 086 15	Screw, hex. flange M10x1.5x81 (5)
18	X-426-9	Clamp, hose (2)
19	12 326 03	Hose, breather
20	M-0645020	Screw, hex. flange M6x1.0x20 (5)
21	12 096 07	Cover, valve w/nipple
22	M-0545010	Screw, hex. flange M5x0.8x10
23	12 018 01	Retainer, breather reed
24	12 402 02	Reed, breather

## CRANKCASE

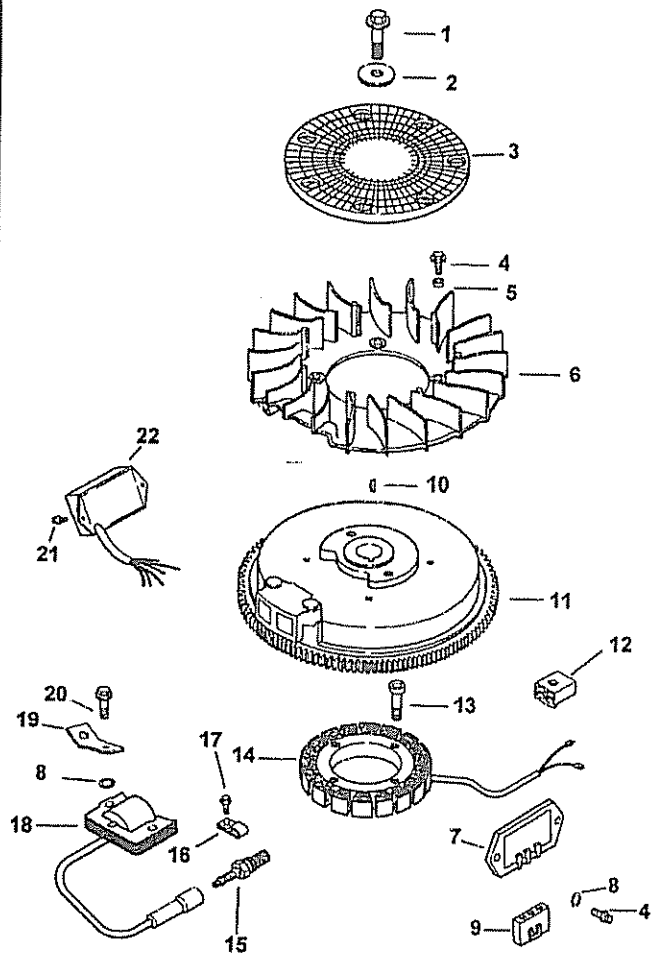
KEY NO.	PART NO.	DESCRIPTION
1	12 032 03	Seal, crankshaft
2	Block, cylinder (Use Short Block 12 522 18)	
3	12 445 02	Strap, lifting
4	M-0839025	Screw, hex. flange M8x1.25x25
5	12 380 17	Dowel, locating (4)
6	12 755 49	Kit, camshaft (Includes 7-8)
7	12 089 18	Spring, actuating
8	12 422 08	Shim, camshaft - blue
	12 422 09	Shim, camshaft (A.R.) red
	12 422 10	Shim, camshaft (A.R.) yellow
	12 422 11	Shim, camshaft (A.R.) green
	12 422 12	Shim, camshaft (A.R.) gray
	12 422 13	Shim, camshaft (A.R.) black
	12 422 07	Shim, camshaft (A.R.) white
9	12 144 19	Shaft, balance
10	12 874 07	Piston w/Ring Set (Std.) (Includes 11-12)
	12 874 08	Piston w/Ring Set (.25)
	12 874 09	Piston w/Ring Set (.50)
11	12 018 02	Retainer, piston pin (2)
12	12 108 07	Ring Set (Std.)
	12 108 08	Ring Set (.25)
	12 108 09	Ring Set (.50)
13	12 067 05	Connecting Rod (Std.)
	12 067 06	Connecting Rod (.25)
14	12 380 01	Pin, governor regulating
15	12 043 05	Gear, governor assembly
16	M-0631005	Washer, plain 6mm
17	12 144 02	Shaft, governor gear
18	52 139 09	Plug, cup
19	12 755 64	Kit, gov. cross shaft w/clip (Includes 20,24)
20	12 144 24	Shaft, governor cross
21	X-25-102	washer, plain 1/4
22	12 032 01	Seal, governor cross shaft
23	SM-0631015	Washer, plain 6mm
24	12 154 05	Clip, hitch pin

# REPAIR PARTS

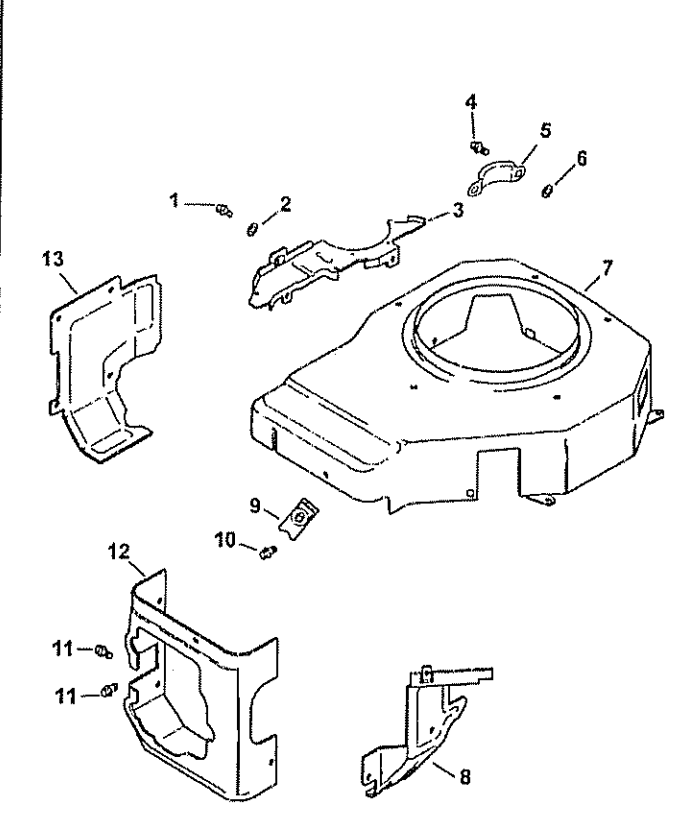
TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

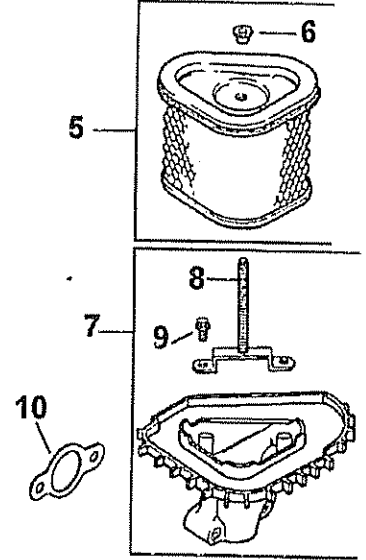
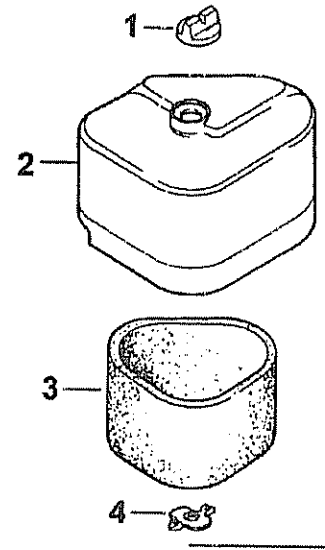
## IGNITION / ELECTRICAL



## BLOWER HOUSING AND BAFFLES



## AIR INTAKE



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

#### IGNITION/ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	12 086 14	Screw, hex. flange M10x1.5x46
2	12 468 03	Washer, plain 3/8
3	24 162 03	Screen, grass
4	M-0639016	Screw, hex. flange M6x1.0x16 (6)
5	12 112 01	Spacer, fan (4)
6	12 157 03	Fan
7	41 403 09	Regulator, rectifier
8	X-22-11	Washer, lock (2)
9	236602	Connector
10	X-42-15	Key
11	12 025 35	Flywheel
12	41 155 02	Connector (4 contact)
13	M-0548025	Screw, hex. cap M5x0.8x25 (2)
14	24 085 01	Stator assembly - 15 amp
15	12 132 02	Spark Plug
16	X-728-1	Clip, cable (2)
17	M-0545010	Screw, hex. flange M5x0.8x10 (2)
18	12 584 07	Module, ignition
19	12 452 02	Terminal
20	12 086 35	Screw, hex. socket M5x0.8x20 (2)
21	M-0461013	Screw, pan head M4.2x13 (2)
22	12 584 06	Module, speed advance
<b>NOT ILLUSTRATED</b>		
	25 518 29	Lead
	25 518 05	Lead
	12 176 31	Harness
	X-25-5	Washer, plain 5/16"

#### BLOWER HOUSING & BAFFLES

KEY NO.	PART NO.	DESCRIPTION
1	M-0545010	Screw, hex. flange M5x0.8x10 (8)
2	24 468 10	Washer, plain 1/4
3	12 146 07	Plate, blower housing
4	M-0645020	Screw, hex. flange M6x1.0x20
5	24 096 05	Cover, pinion
6	220534	Washer, plain 5/16 (2)
7	12 027 54	Housing, blower
8	12 063 05	Baffle, intake side
9	25 154 02	Clip, mounting (3)
10	SM-0545020	Screw, hex. flange M5x0.8x20 (3)
11	M-0645016	Screw, hex. flange M6x1.0x16 (2)
12	12 063 08	Baffle, cylinder head
13	12 063 01	Baffle, cylinder

#### AIR INTAKE/FILTRATION

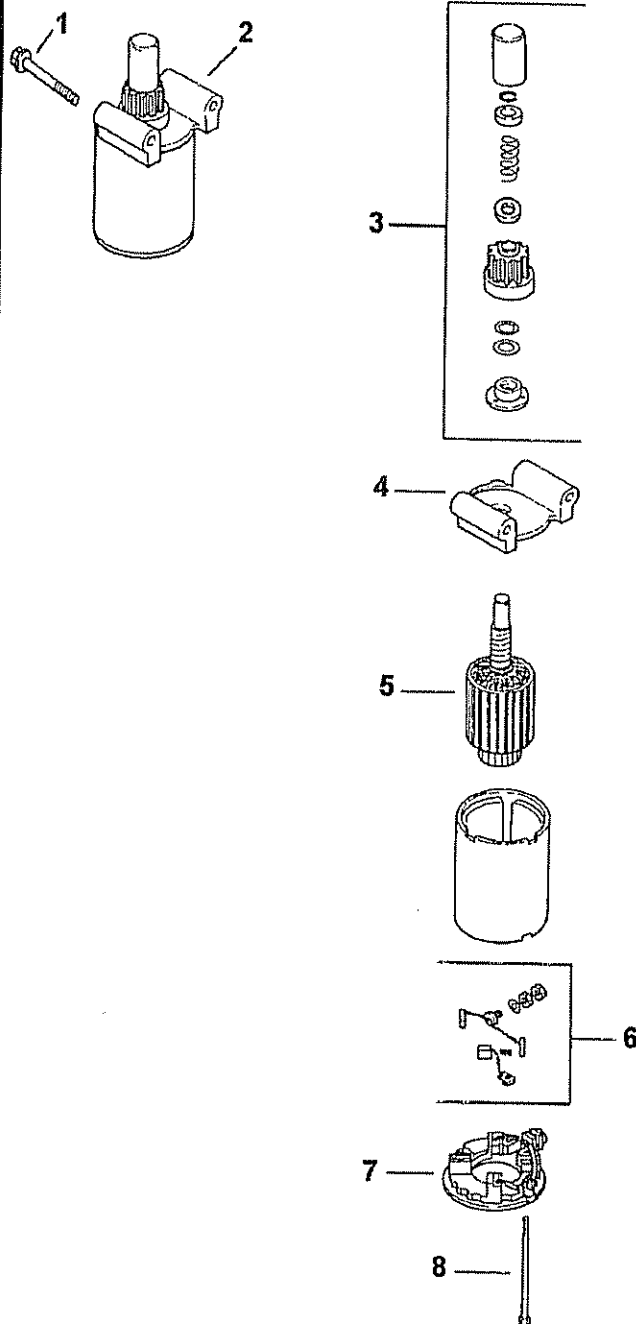
KEY NO.	PART NO.	DESCRIPTION
1	25 341 03	Knob, air cleaner cover
2	12 096 24	Cover, air cleaner
3	12 083 08	Precleaner, element
4	12 100 01	Wing Nut
5	12 083 05	Element, air cleaner (Includes 6)
6	12 032 10	Seal
7	12 094 12	Base, air cleaner (Includes 8-9)
8	12 072 03	Stud M6x1.0x75
9	12 086 01	Screw, hex. cap #10 Hi-Lo thread forming (2)
10	12 041 02	Gasket, air cleaner
<b>NOT ILLUSTRATED</b>		
	12 113 53	Decal, air cleaner

# REPAIR PARTS

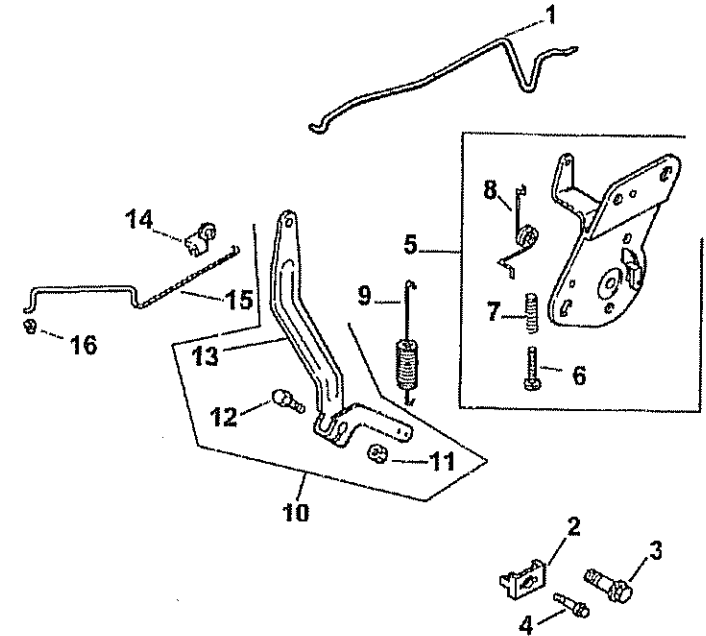
TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

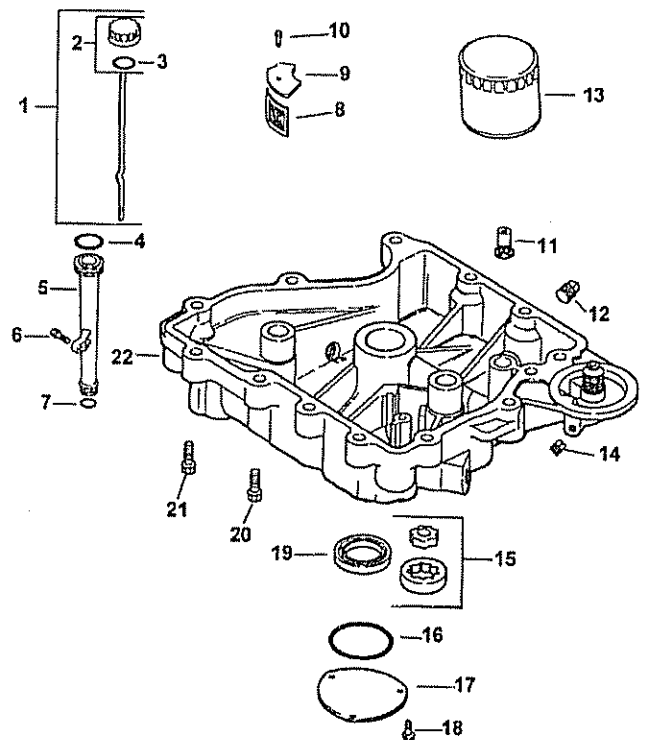
## STARTING SYSTEM



## ENGINE CONTROLS



## OIL PAN / LUBRICATION



# REPAIR PARTS

## TRACTOR - - MODEL NUMBER 917.258580

### KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

#### STARTING SYSTEM

KEY NO.	PART NO.	DESCRIPTION
1	M-0839070	Screw, hex. flange M8x1.25x70 (2)
2	25 098 05	Starter assembly (Includes 3-8)
3	12 755 54	Kit, drive end
4	12 227 06	Cap, drive end
5	12 170 05	Armature
6	12 221 01	Kit, brush & spring
7	12 227 13	Cap, commutator end
8	12 211 01	Bolt, hex. flange 1/4-20x4-5/8 (2)

#### OIL PAN/LUBRICATION

KEY NO.	PART NO.	DESCRIPTION
1	12 038 01	Dipstick assembly (Includes 2-3)
2	25 755 13	Kit, oil fill cap (Includes 3)
3	12 153 03	O-Ring, oil fill cap
4	12 153 02	O-Ring, upper oil fill tube
5	12 123 04	Tube, oil fill
6	SM-0545020	Screw, hex. flange M5x0.8x20
7	12 153 01	O-Ring, lower oil fill tube
8	25 162 07	Screen, oil pickup
9	12 096 03	Cover, oil pickup screen
10	M-0545016	Screw, hex. flange M5x0.8x16
11	25 462 09	Valve, oil pressure relief
12	X-75-2	Plug, pipe
13	12 050 01	Filter, oil
14	X-75-10	Plug, sq. hd. solid 3/8
15	12 393 01	Pump, oil assembly
16	12 153 06	O-Ring, oil pump cover
17	12 096 34	Cover, oil pump
18	M-0545016	Screw, hex. flange M5x0.8x16 (3)
19	12 032 03	Seal, oil (P.T.O. end)
20	24 086 16	Screw, hex. flange M8x1.25x45 (11)
21	24 086 17	Screw, hex. flange M8x1.25x45
22	12 199 38	Pan, oil

#### ENGINE CONTROLS

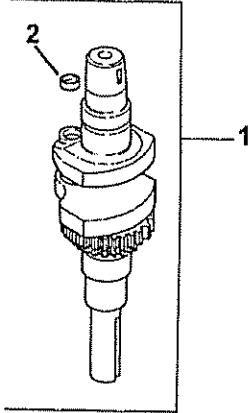
KEY NO.	PART NO.	DESCRIPTION
1	12 079 07	Linkage, choke
2	12 237 01	Clamp, cable
3	M-0664020	Screw, lobed socket M6x1.0x20 (2)
4	M-0545016	Screw, hex. flange M5x0.8x16
5	12 536 10	Control, speed assembly (Includes 6,8,9?)
6	M-0443020	Screw, pan head M4x0.7x20
7	12 089 11	Spring, speed control (2)
8	12 089 23	Spring, choke return
9	12 089 24	Spring, governor
10	12 755 83	Kit, governor lever (Includes 11-13)
11	12 100 07	Nut, hex. flange M6x1.0
12	52 211 04	Bolt, round head
13	12 090 26	Lever, governor
14	25 158 11	Bushing, throttle linkage
15	12 079 01	Linkage, throttle
16	25 158 08	Bushing, linkage retaining

# REPAIR PARTS

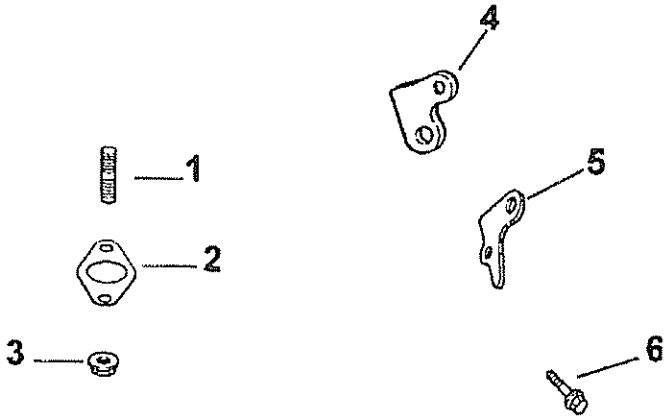
TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

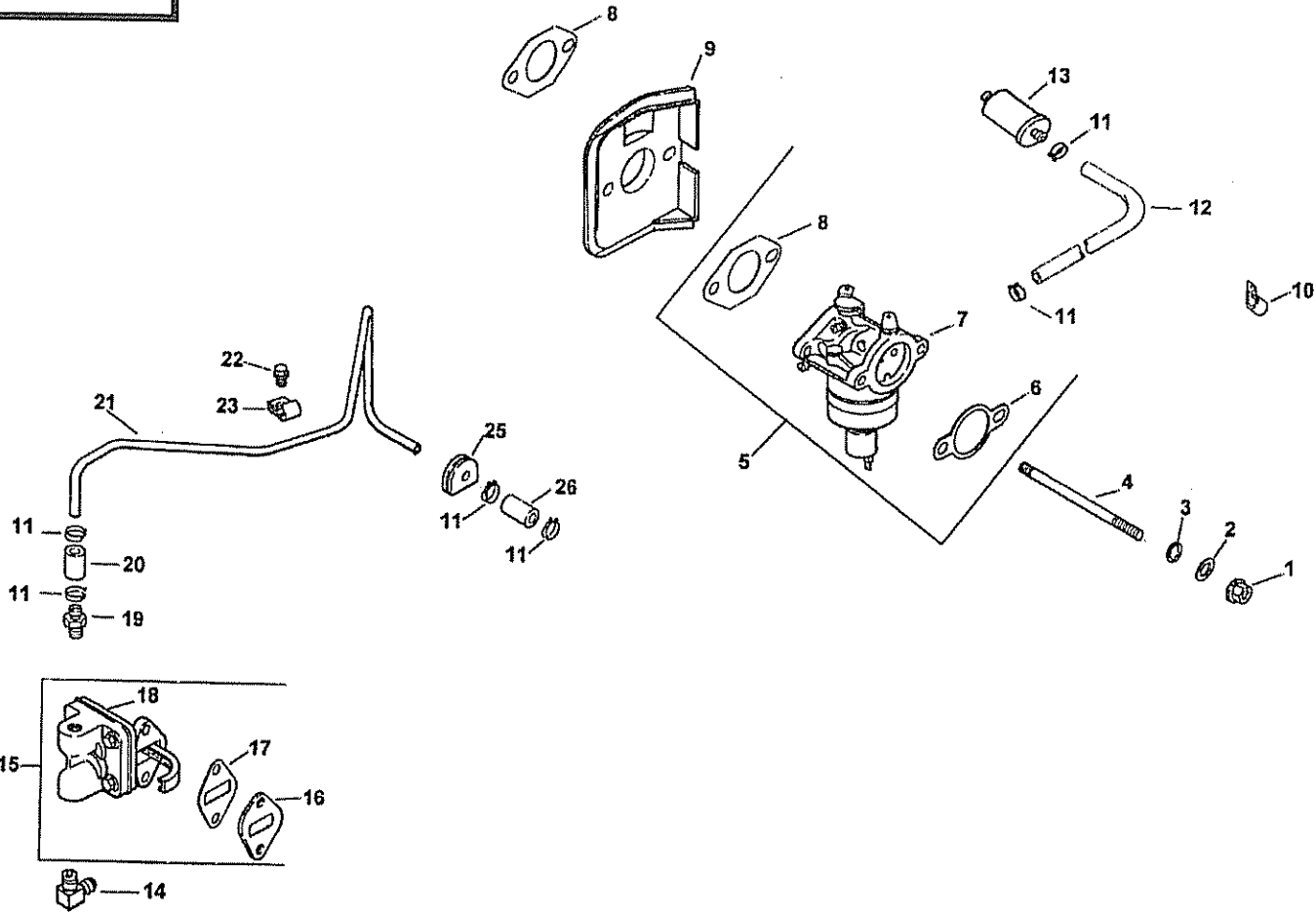
## CRANKSHAFT



## EXHAUST



## FUEL SYSTEM





# REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.258580

KOHLER ENGINE - MODEL NUMBER CV16S, TYPE NUMBER PS43509

## FUEL SYSTEM

KEY NO.	PART NO.	DESCRIPTION
1	M-0641060	Nut, hex flange M6x1.0 (2)
2	X-25-63	Washer, plain 1/4
3	X-22-11	Washer, star 1/4
4	M-0629122	Stud M6x1.0x122 (2)
5	12 853 83	Kit, carburetor w/gasket (Includes 6,7,8 qty 1)
6	12 041 02	Gasket, air cleaner
7	12 053 83	Carburetor assembly (For information only not available separately)
8	12 041 01	Gasket, carburetor (2)
9	12 265 04	Deflector, heat
10	47 154 01	Clip, cable
11	X-426-9	Clamp, hose (6)
12	52 353 22	Line, fuel 1/2"
13	25 050 02	Filter, fuel
14	25 155 02	Connector, 90° hose
15	12 559 01	Kit, fuel pump w/gaskets (Includes 16-18)
16	12 112 05	Spacer, fuel pump
17	25 041 09	Gasket, fuel pump (2)
18	M-0645020	Screw, hex. flange M6x1.0x20 (2)
19	X-380-1	Connector, straight hose
20	12 353 01	Line, fuel 1-1/4"
21	12 123 19	Line, metal fuel
22	M-0545010	Screw, hex. flange M5x0.8x10
23	12 154 01	Clamp, fuel line
24	12 431 01	Sleeve, insulating
25	12 313 01	Grommet, fuel line
26	12 353 10	Line, fuel 2-1/2"

## NOT ILLUSTRATED

12 757 02	Kit, float
12 757 03	Kit, carburetor repair
12 041 01	Gasket, carburetor
12 041 02	Gasket, air cleaner
12 041 05	Gasket, bowl
12 041 06	Gasket, bowl screw
12 032 06	Seal, solenoid
12 757 09	Kit, solenoid
12 041 06	Gasket, bowl screw

## CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION
1	12 014 37	Crankshaft (Includes 2)
2	12 139 01	Plug, cup

## EXHAUST

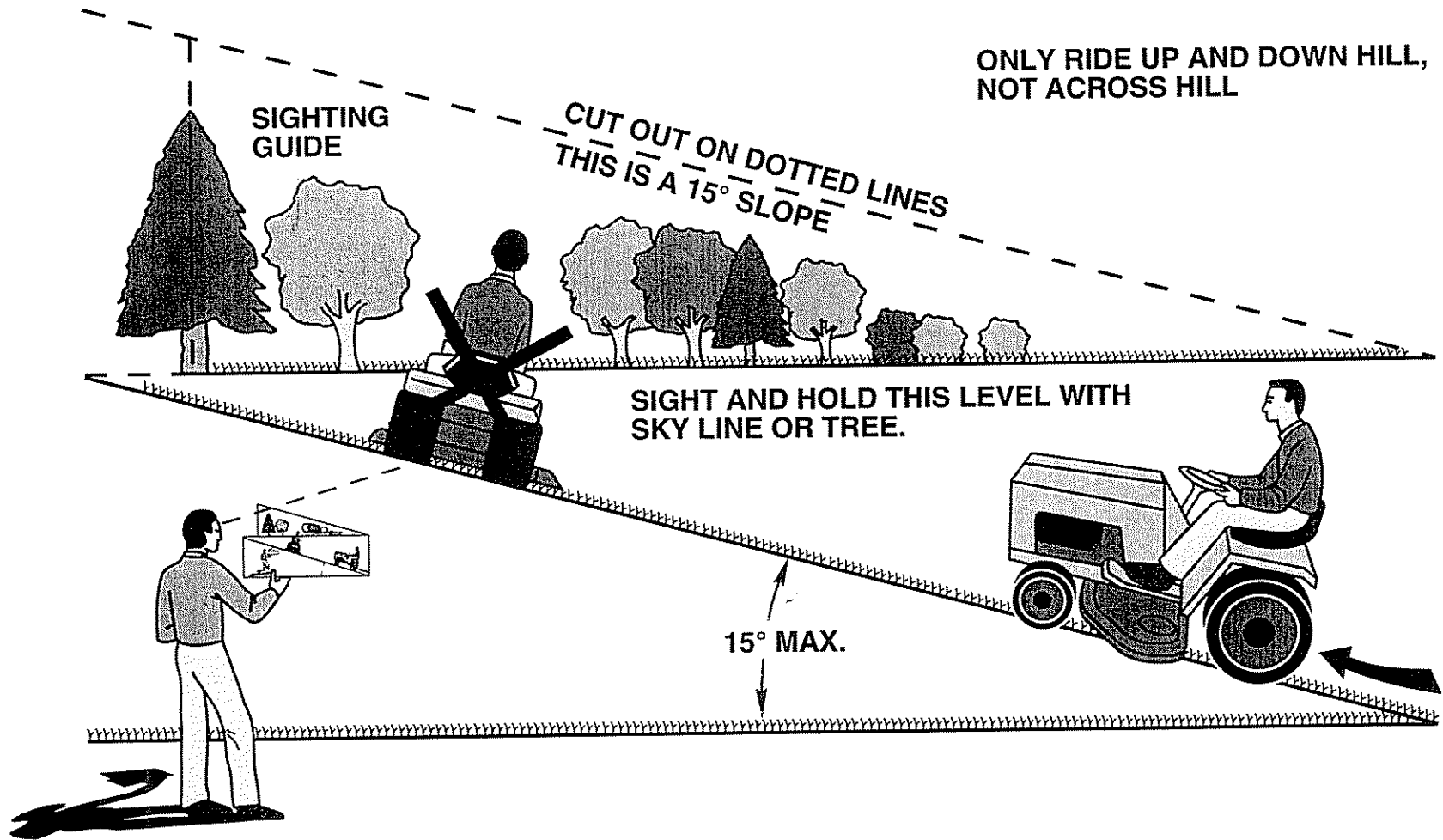
KEY NO.	PART NO.	DESCRIPTION
1	M-0829033	Stud M8x1.25x33 (2)
2	12 041 03	Gasket, exhaust manifold
3	M-0841080	Nut, hex. flange M8x1.25 (2)
4	12 126 11	Bracket, muffler
5	12 445 06	Strap, lifting
6	M-0645025	Screw, hex. flange M6x1.0x25 (2)
	12 522 18	Short Block
	12 755 82	Gasket Set

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# SERVICE NOTES

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# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

**SEARS**

**OWNER'S  
MANUAL**

**MODEL NO.  
917.258580**

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FOLLOWING INFORMATION:**

- **PRODUCT - TRACTOR**
- **MODEL NUMBER - 917.258580**
- **ENGINE MODEL NO. - CV16S - PS43509**
- **PART NUMBER**
- **PART DESCRIPTION**

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