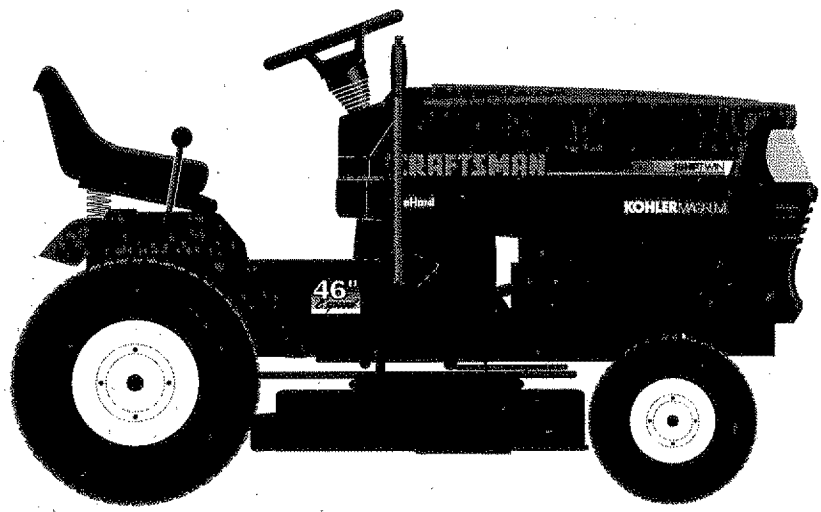
SEARS

CRAFTSMAN®

MODEL NUMBER 917.256701 OWNER'S MANUAL

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

EZ³



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 917.256701

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.

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).

PRODUCT SPECIFICATIONS

HORSEPOWER:	18.0
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/ FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .025")	CHAMPION RV17YC
VALVE CLEARANCE:	INTAKE: .003" - .006" EXHAUST: .013" - .016"
GROUND SPEED (MPH):	FORWARD: 1st 1.1 2nd 1.4 3rd 2.3 4th 3.5 5th 4.5 6th 5.7 REVERSE: 1.8
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	30-35 FT. LBS.

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

TABLE OF CONTENTS

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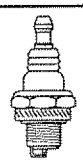
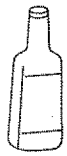
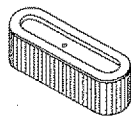
ACCESSORIES AND ATTACHMENTS

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.

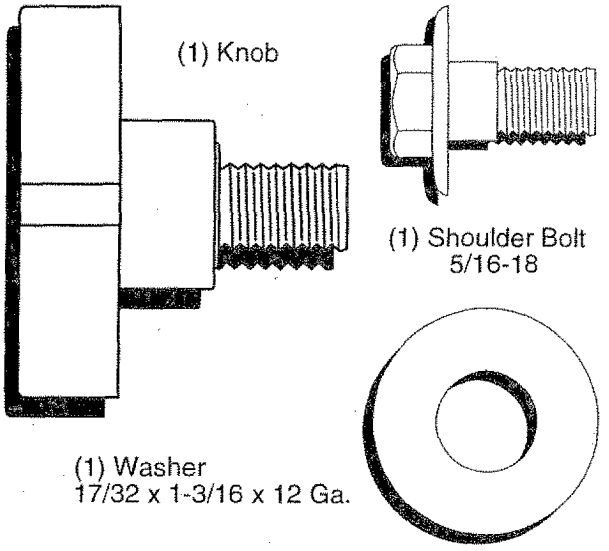
VACS for powerful collection of heavy grass clippings and leaves. **Optional wand attachment** to pick up debris in hard-to-reach places. **VAC/CHIPPER** includes a chipper-shredder.

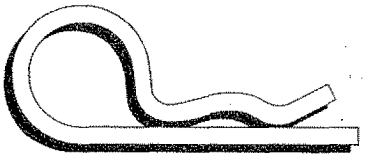
WEIGHT BRACKET for drawbar for snow removal applications. Uses (1) 55 lb. weight.

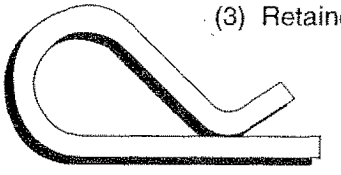
WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

CONTENTS OF HARDWARE PACK

Parts Bag contents shown full size

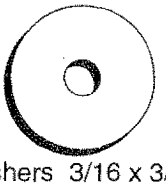



(3) Retainer Springs (double loop)

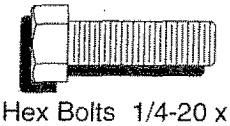

(4) Retainer Springs (single loop)


(2) Screws #10 x 5/8

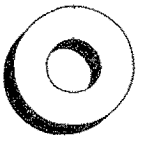

(2) Lock Washers #10


(2) Washers 3/16 x 3/4 x 16 Gauge


(2) Weld Nuts #10

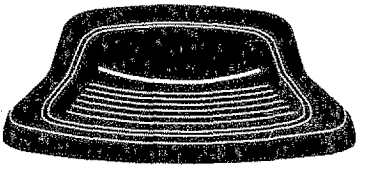

(2) Hex Bolts 1/4-20 x 3/4

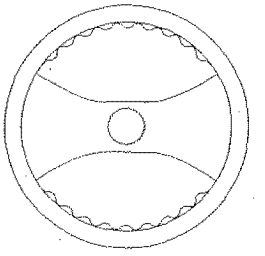

(2) Hex Nuts 1/4-20

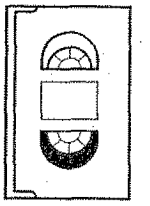

(2) Washers 9/32 x 5/8 x 16 Ga.

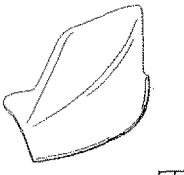

(2) Lock Washers 1/4

Parts packed separately in carton


Seat


Steering Wheel


Video Cassette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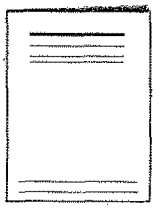
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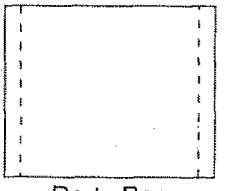
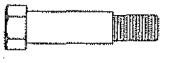

Parts Bag

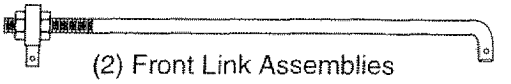
Parts bag contents not shown full size

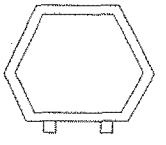

(2) Shoulder Bolts

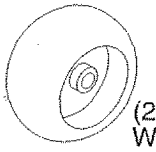

(2) Center-lock Nuts

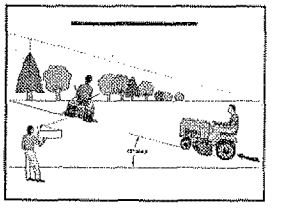

Steering Sleeve


(2) Washers 3/8 x 7/8 x 14 Gauge

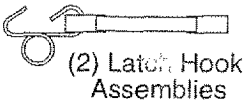

(2) Front Link Assemblies


Steering Wheel Insert


(2) Gauge Wheels


Slope Sheet


(2) Keys


(2) Latch Hook Assemblies

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

Utility knife

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL (See Fig. 1)

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

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

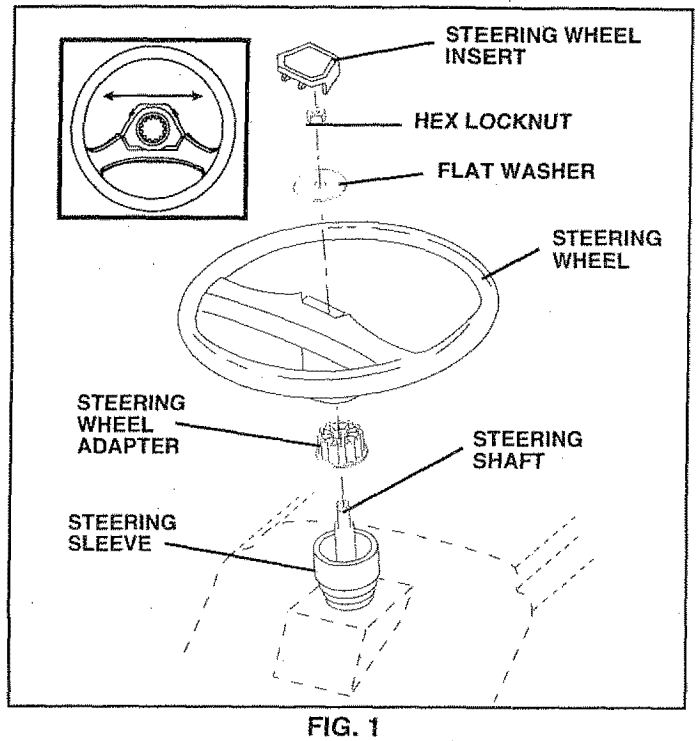


FIG. 1

TO ROLL TRACTOR OFF SKID (See 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.

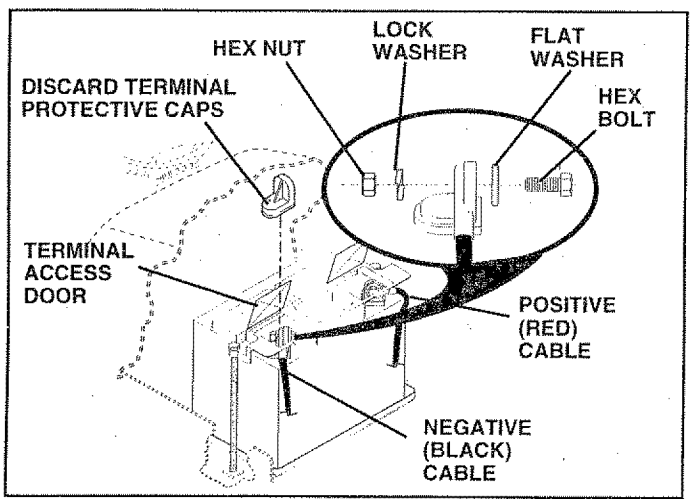


FIG. 2

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.

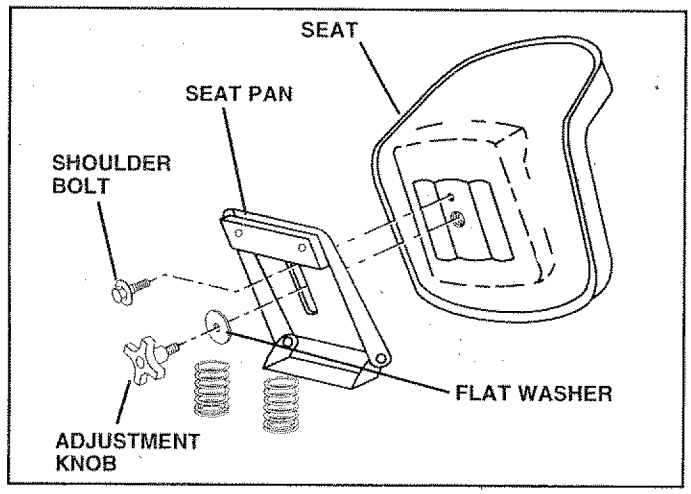


FIG. 3

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 ELECTRIC CLUTCH PULLEY GROOVE.

- Install one front link in top hole of the R.H. front mower bracket and R.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in L.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Place the L.H. suspension arm on outward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm.
- Slide left side of mower back and install the unattached front link in top hole of the L.H. front mower bracket. Retain with single loop retainer spring as shown.
- Place the R.H. suspension arm on outward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Retain both suspension arms to deck pins with double loop retainer springs.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise mower to highest position.
- Assemble gauge wheels (See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual).

CHECK MOWER LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

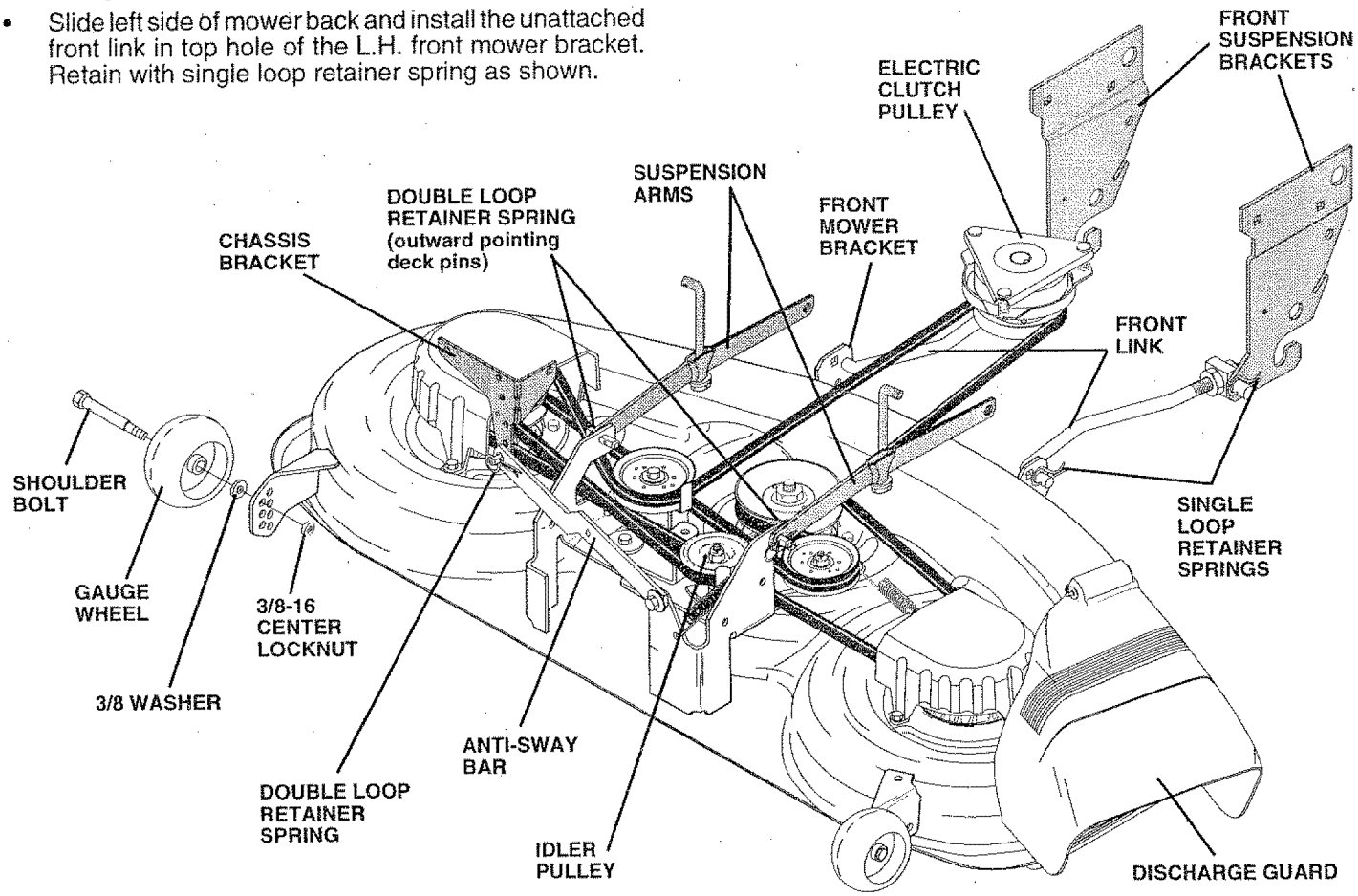


FIG. 4

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.

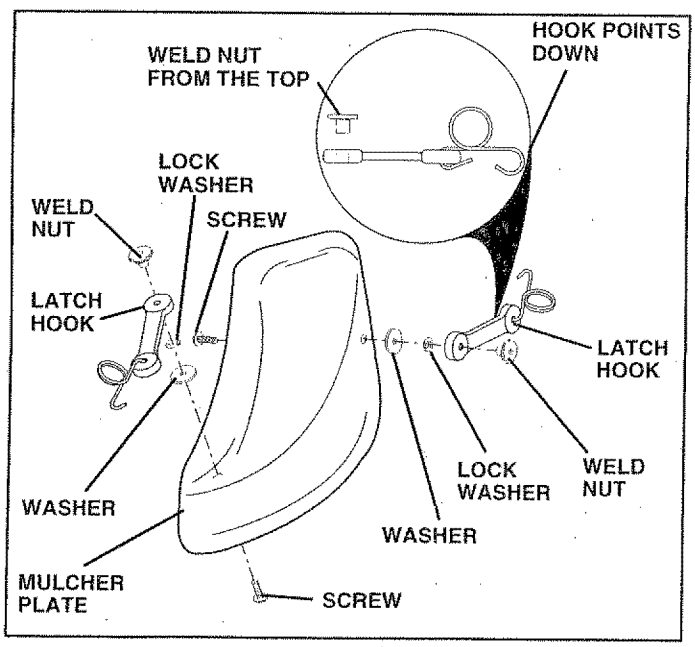


FIG. 5

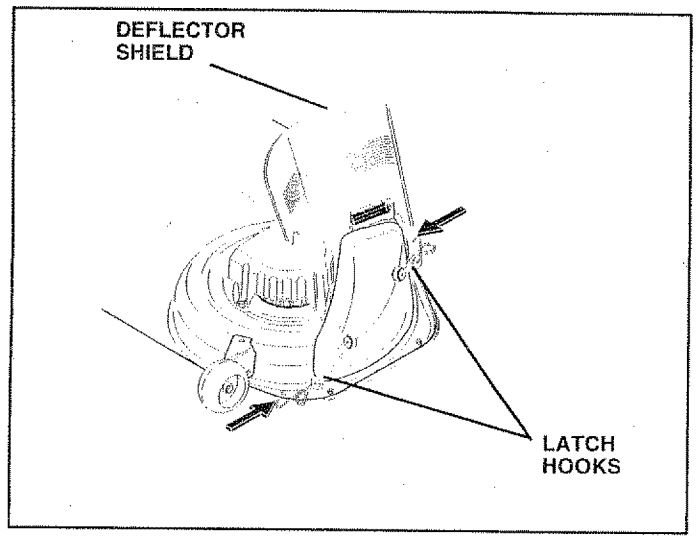


FIG. 6

✓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:

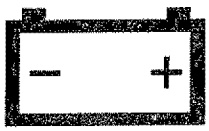
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

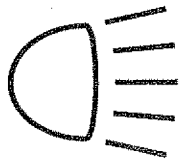
SLOW

ENGINE ON

ENGINE OFF

OIL PRESSURE

CLUTCH

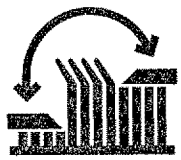


LIGHTS ON

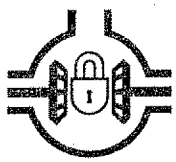
LIGHTS OFF

FUEL

CHOKE



MOWER HEIGHT



DIFFERENTIAL LOCK

PARKING BRAKE LOCKED

UNLOCKED

MOWER LIFT

R

REVERSE

N

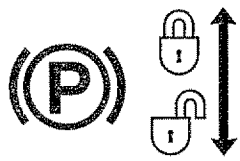
NEUTRAL

H

HIGH

L

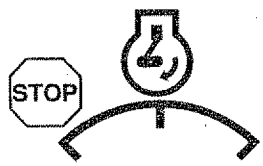
LOW



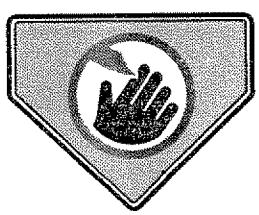
PARKING BRAKE

ATTACHMENT CLUTCH ENGAGED

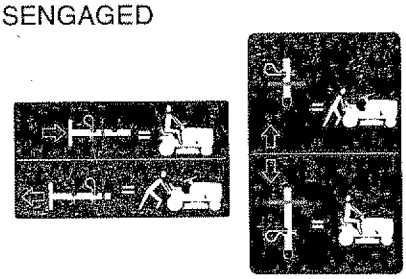
ATTACHMENT CLUTCH DISENGAGED



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

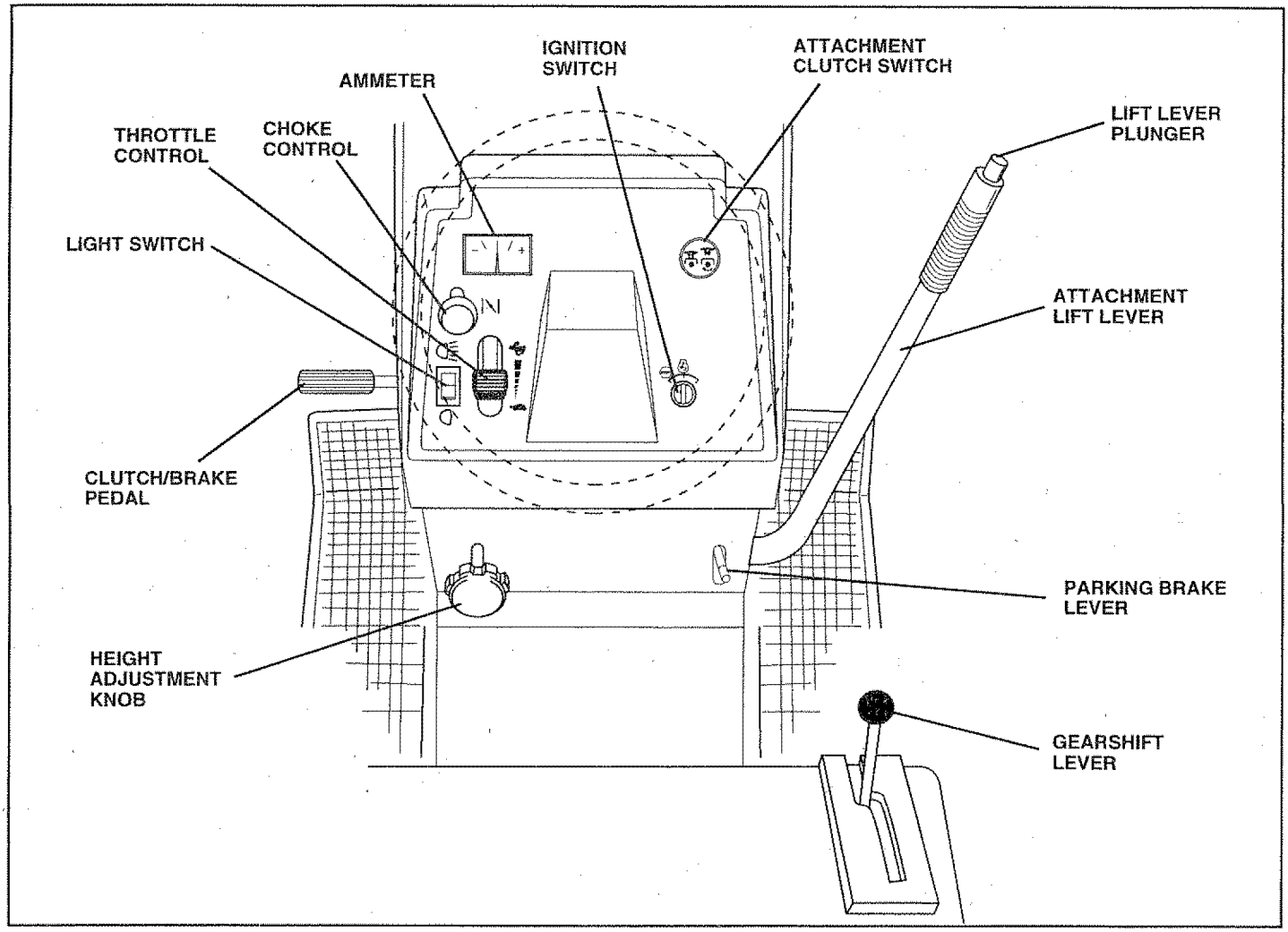


FIG. 7

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

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

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

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

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.

LIGHT SWITCH - Turns the headlights on and off.

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

IGNITION SWITCH - Used to start and stop the engine.

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

THROTTLE CONTROL - Used to control engine speed.

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

CHOKE CONTROL - Used when starting a cold engine.

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

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.

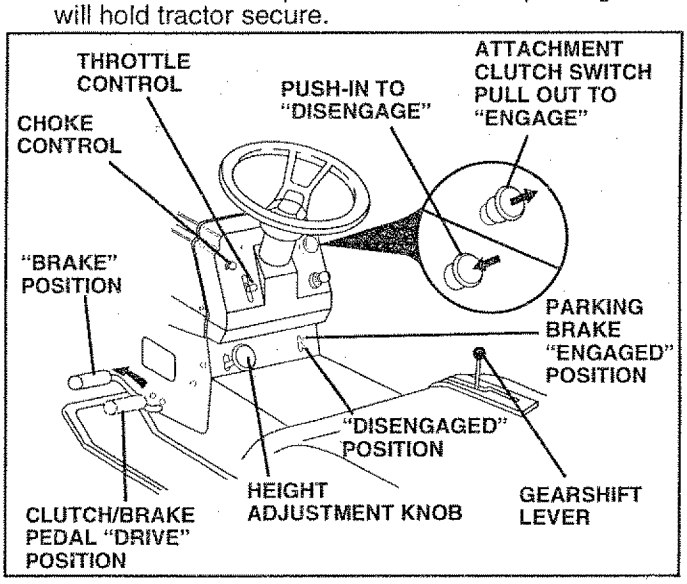


FIG. 8

STOPPING (See Fig. 8)

MOWER BLADES -

- Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

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

ENGINE -

- Move throttle control to slow ( ) position.

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

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

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

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

TO USE THROTTLE CONTROL (See Fig. 8)

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL (See Fig. 8)

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

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

TO MOVE FORWARD AND BACKWARD (See Fig. 8)

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

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 8)

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

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

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

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

TO ADJUST GAUGE WHEELS (See Fig. 9)

Adjust gauge wheels with tractor on a flat level surface.

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

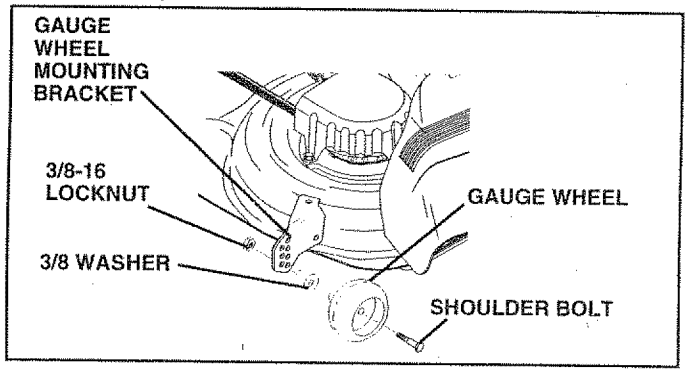


FIG. 9

TO OPERATE MOWER (See Fig. 10)

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

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

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

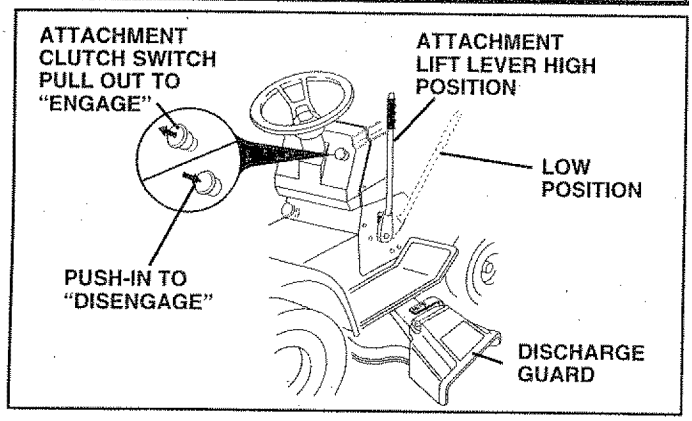


FIG. 10

TO OPERATE ON HILLS

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly

TO TRANSPORT

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

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 17)

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

ADD GASOLINE

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

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

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

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. 8)

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

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

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

MOWING TIPS

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

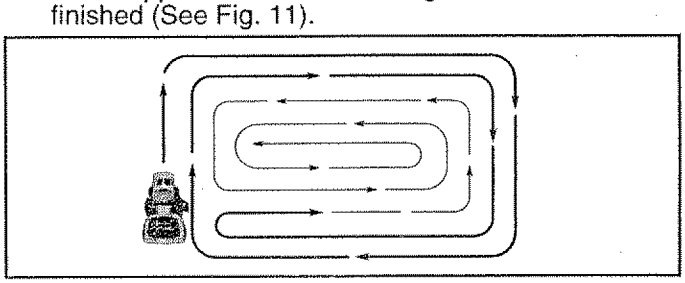


FIG. 11

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

MULCHING MOWING TIPS

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

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

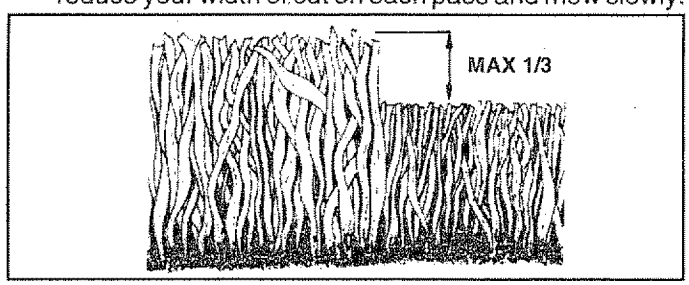


FIG. 12

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

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE
FILL IN DATES
AS YOU COMPLETE
REGULAR SERVICE

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

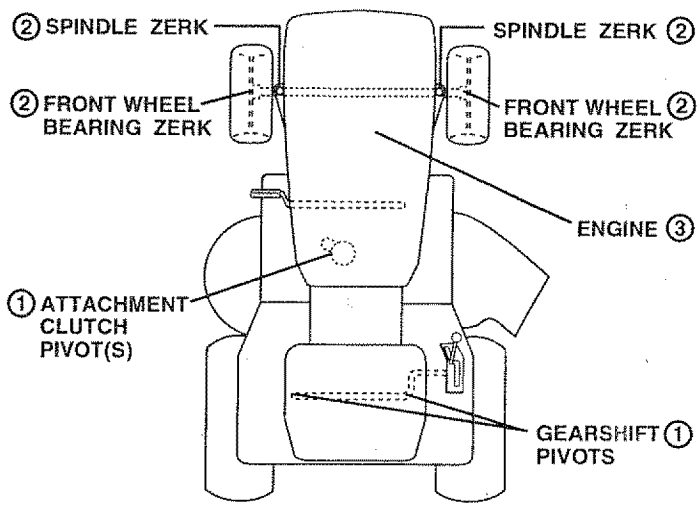
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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. 13)

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.

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

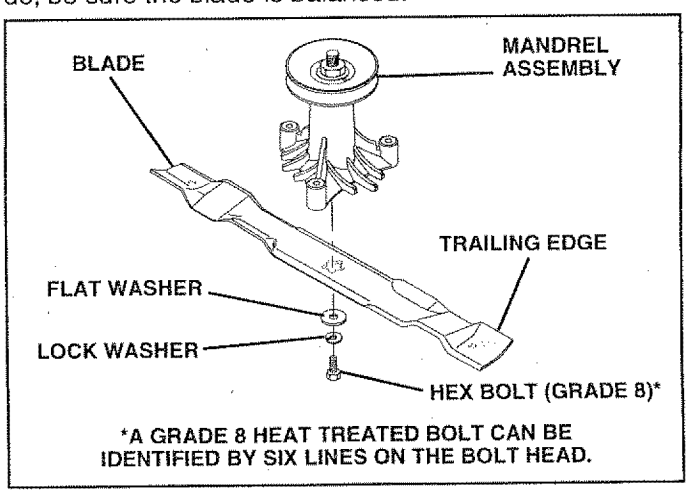


FIG. 13

TO SHARPEN BLADE (See Fig. 14)

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

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

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

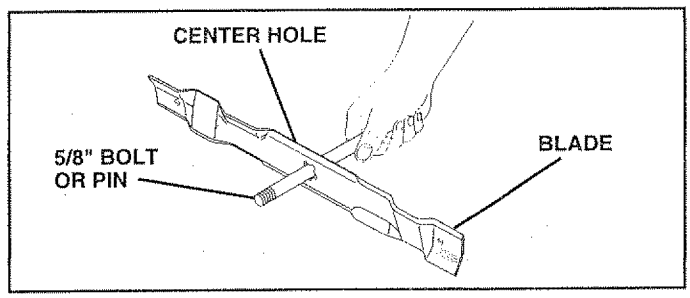


FIG. 14

BATTERY

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

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

TO CLEAN BATTERY AND TERMINALS

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

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

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.

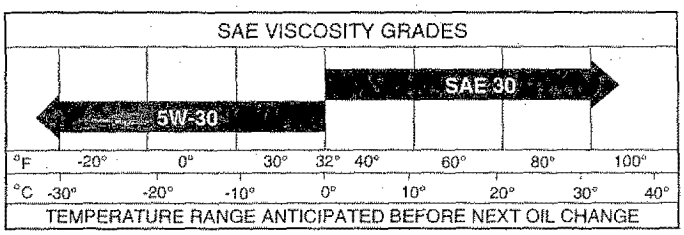
TRANSAXLE COOLING

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.



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

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

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

TO CHANGE ENGINE OIL (See Fig. 15)

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

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

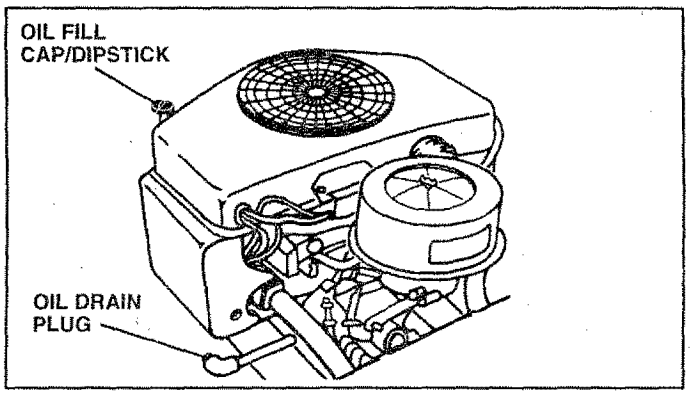


FIG. 15

AIR FILTER (See Fig. 16)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

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

TO SERVICE PRE-CLEANER.

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

TO SERVICE CARTRIDGE

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

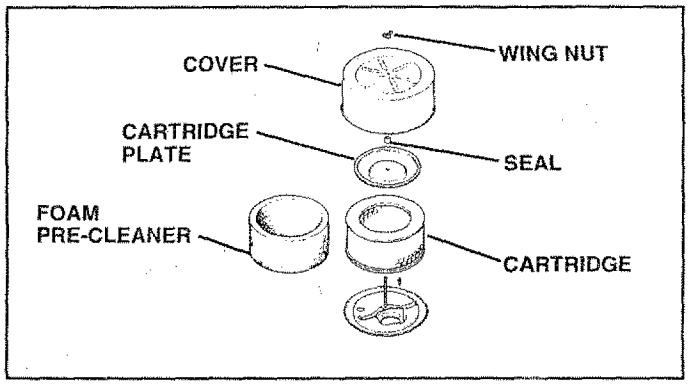


FIG. 16

CUSTOMER RESPONSIBILITIES

CLEAN AIR SCREEN (See Fig. 17)

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

ENGINE COOLING FINS (See Fig. 17)

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

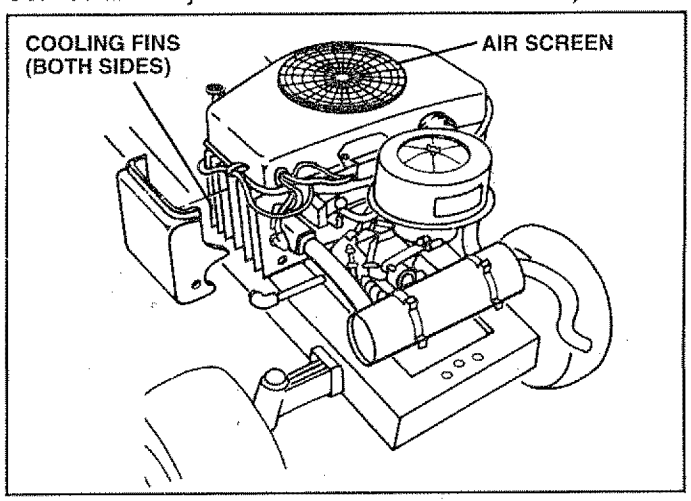


FIG. 17

ENGINE OIL FILTER

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

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 18)

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

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

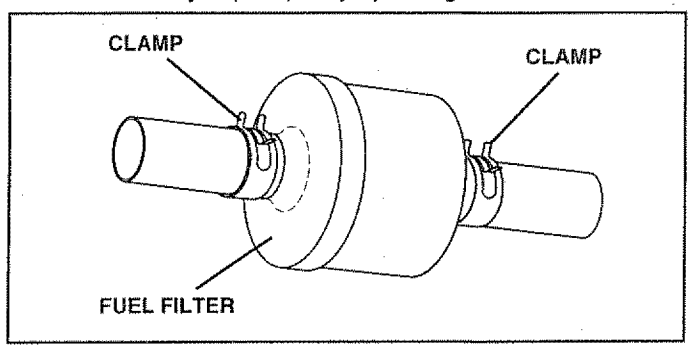


FIG. 18

CLEANING

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

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

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. 19)

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

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

TO INSTALL MOWER

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

TO LEVEL MOWER HOUSING

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

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

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

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

- Recheck measurements after adjusting.

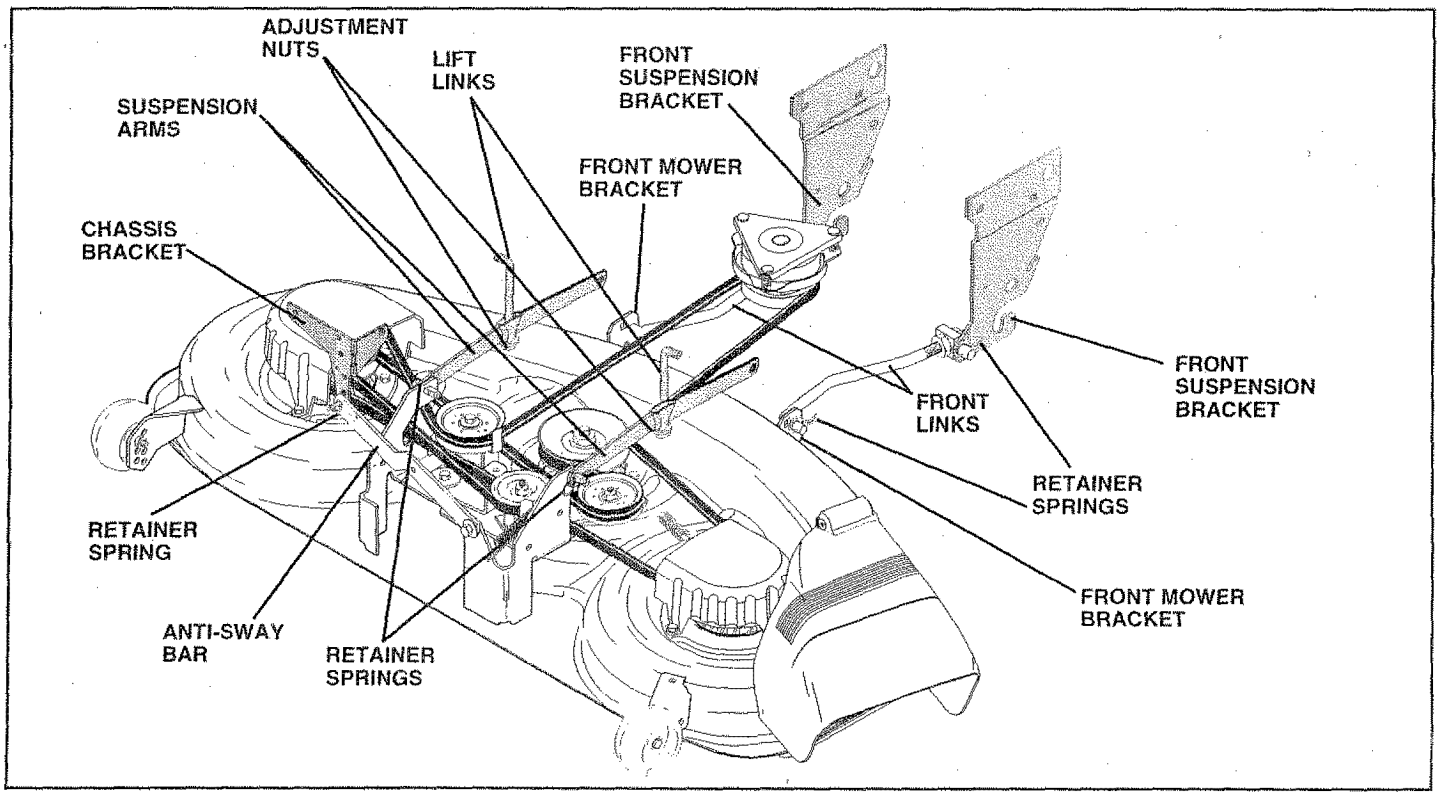


FIG. 19

SERVICE AND ADJUSTMENTS

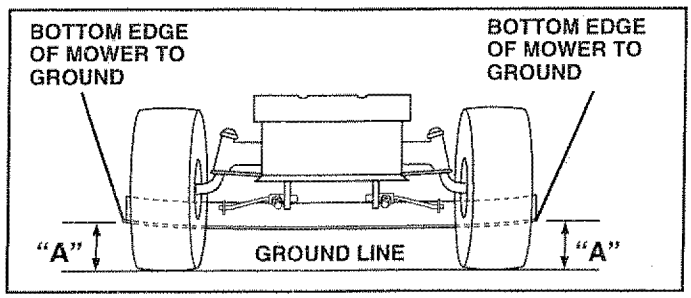


FIG. 20

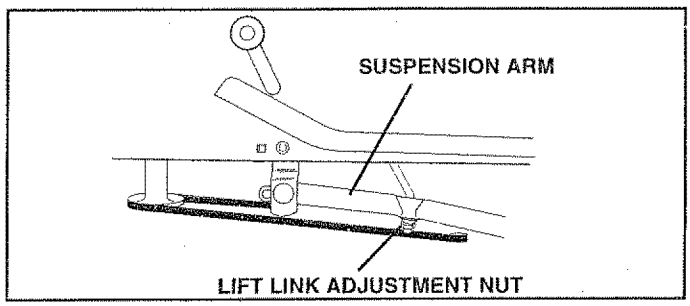


FIG. 21

FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23)

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

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

Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/4" to 3/4" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.
- Recheck side-to-side adjustment.

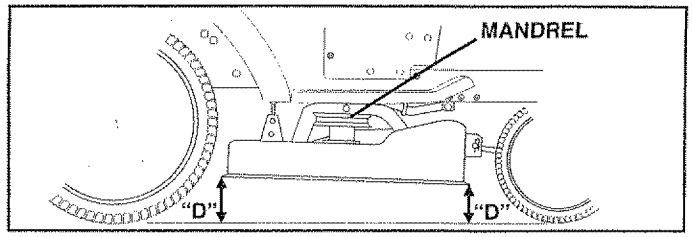


FIG. 22

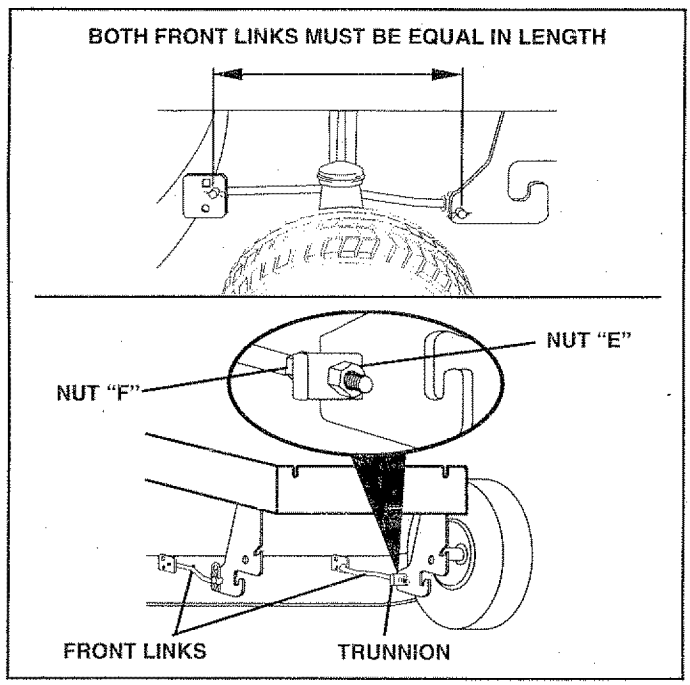


FIG. 23

SERVICE AND ADJUSTMENTS

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

Park the tractor on level surface. Engage parking brake.

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

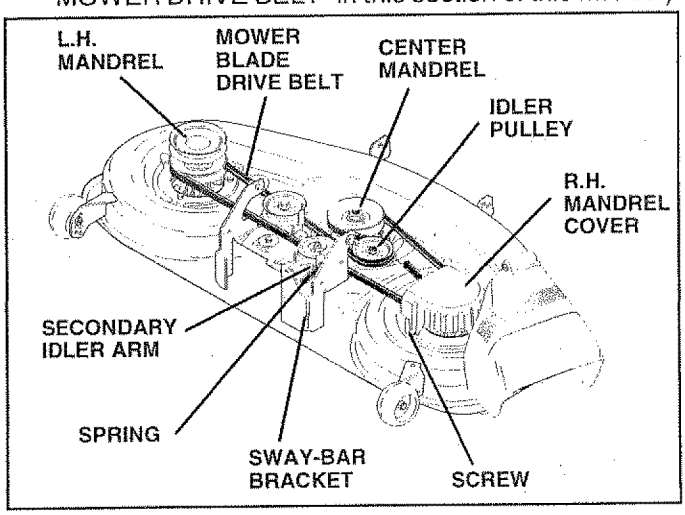


FIG. 24

TO ADJUST ATTACHMENT CLUTCH (See Fig. 25)

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

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

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

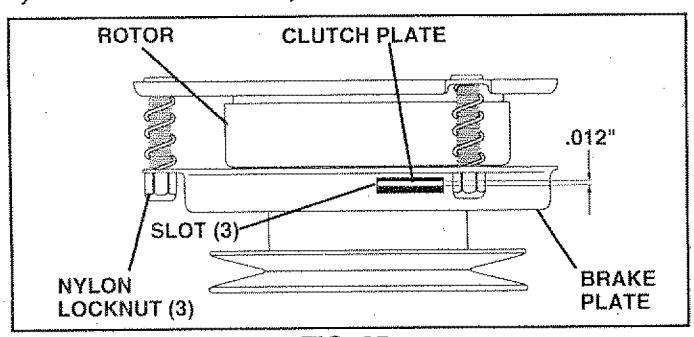


FIG. 25

TO ADJUST BRAKE (See Fig. 26)

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

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

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

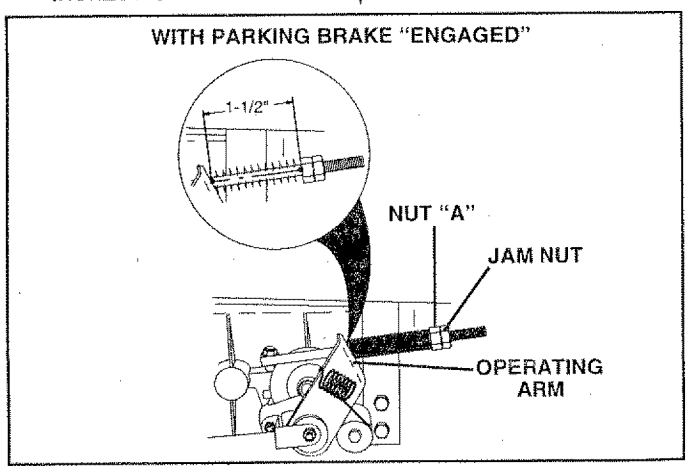


FIG. 26

SERVICE AND ADJUSTMENTS

TO REPLACE MOTION DRIVE BELT (See Fig. 27)

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

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

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

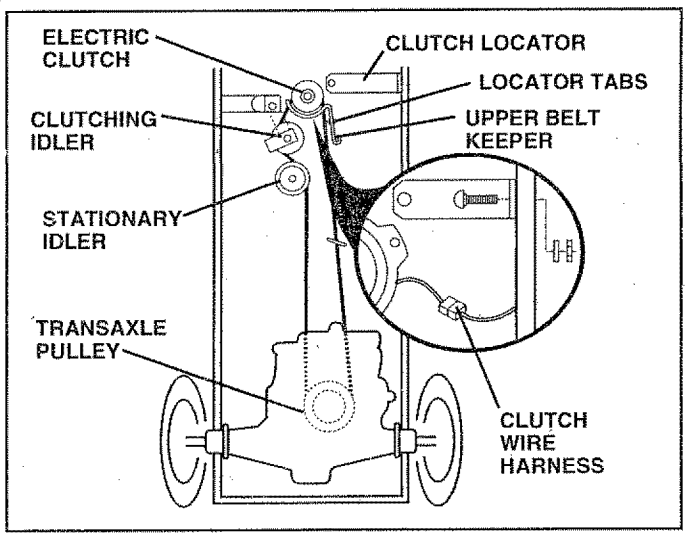


FIG. 27

TRANSAXLE SHIFTER LINKAGE AND ADJUSTMENT (See Figs. 28 and 29)

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.

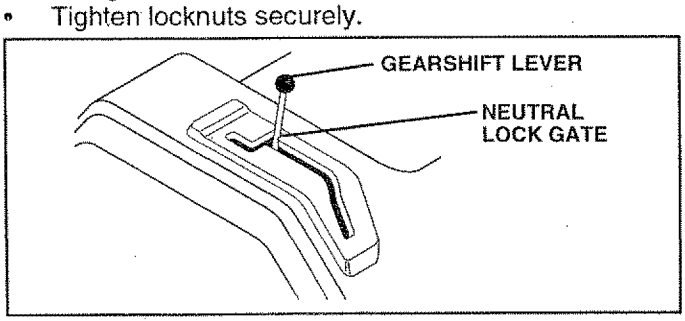


FIG. 28

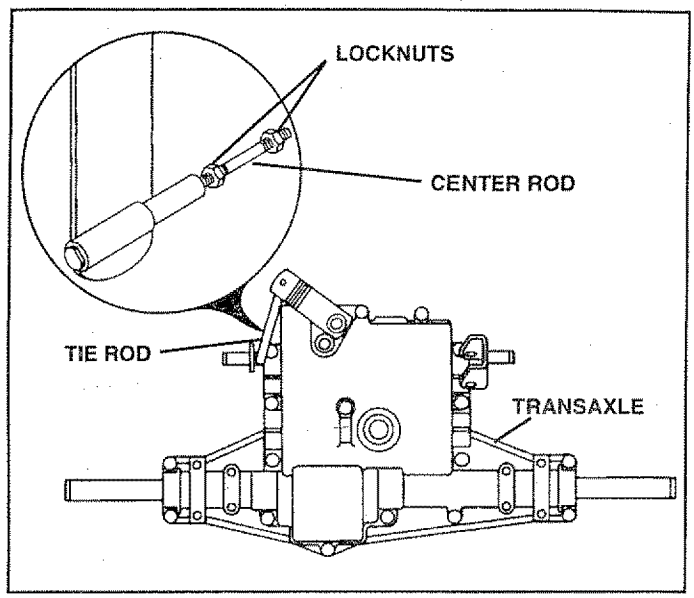


FIG. 29

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. 30)

- 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.

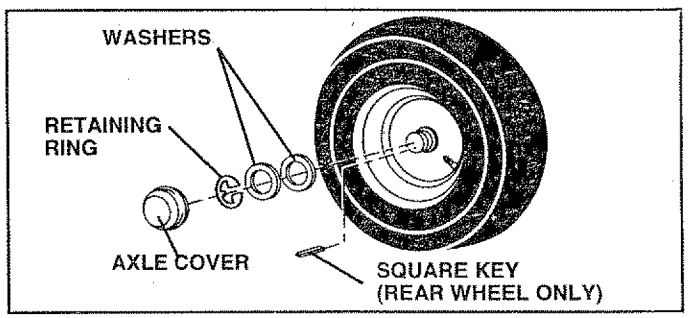


FIG. 30

SERVICE AND ADJUSTMENTS

TO START ENGINE WITH A WEAK BATTERY (See Fig. 31)

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.

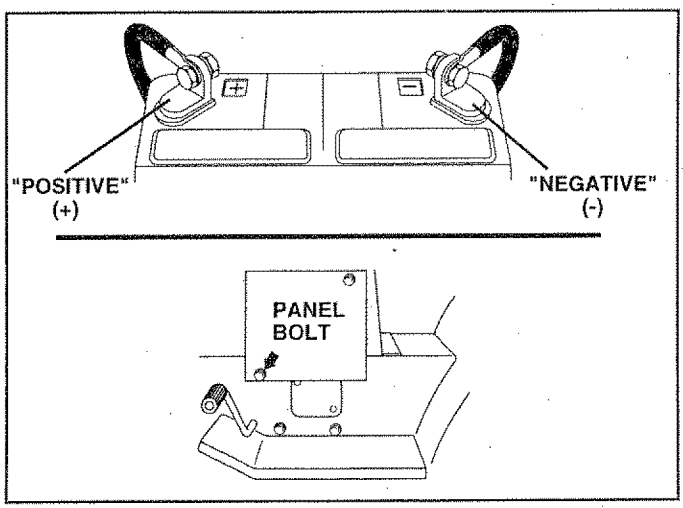


FIG. 31

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 32)

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

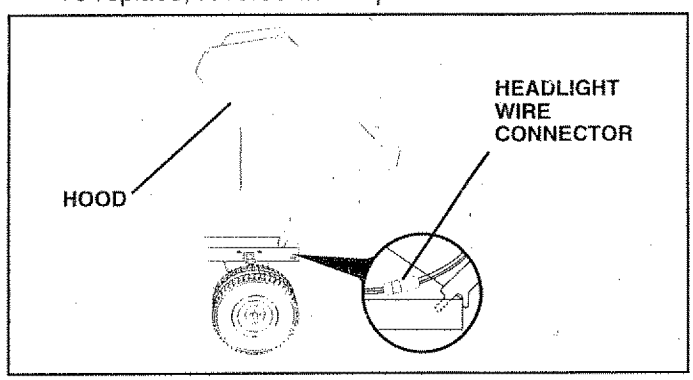


FIG. 32

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Figs. 33 & 34)

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

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

TO ADJUST CARBURETOR (See Fig. 35)

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

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

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

PRELIMINARY SETTING -

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

FINAL SETTING -

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

ACCELERATION TEST -

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

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

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

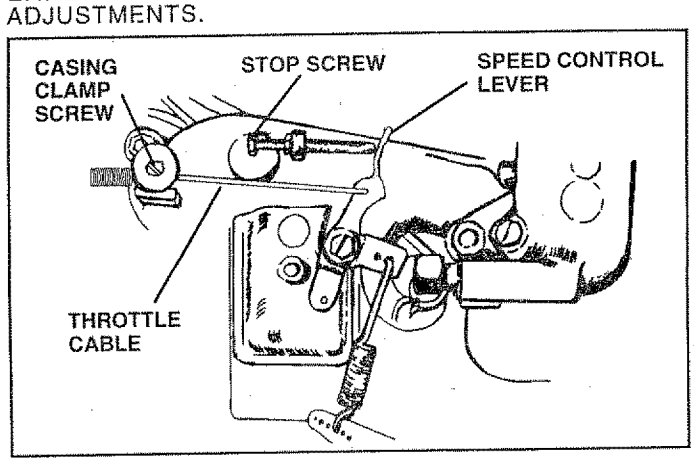


FIG. 33

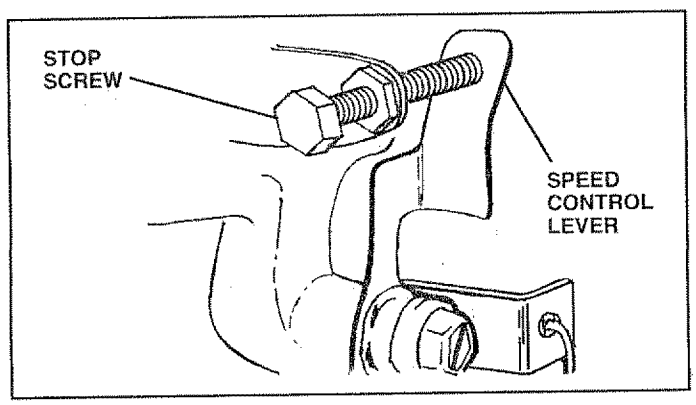


FIG. 34

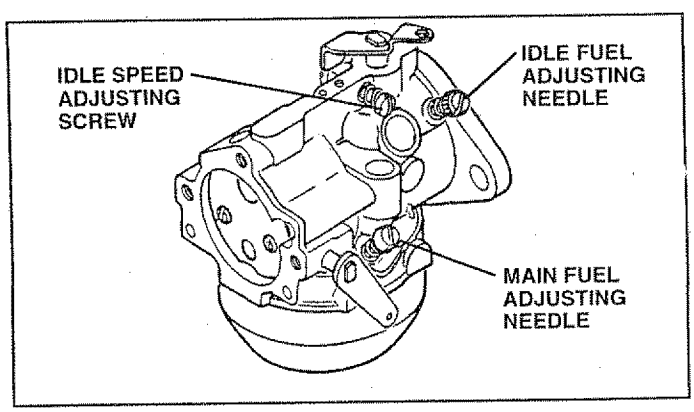


FIG. 35

STORAGE

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

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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

CYLINDERS

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

OTHER

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

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

TROUBLESHOOTING POINTS

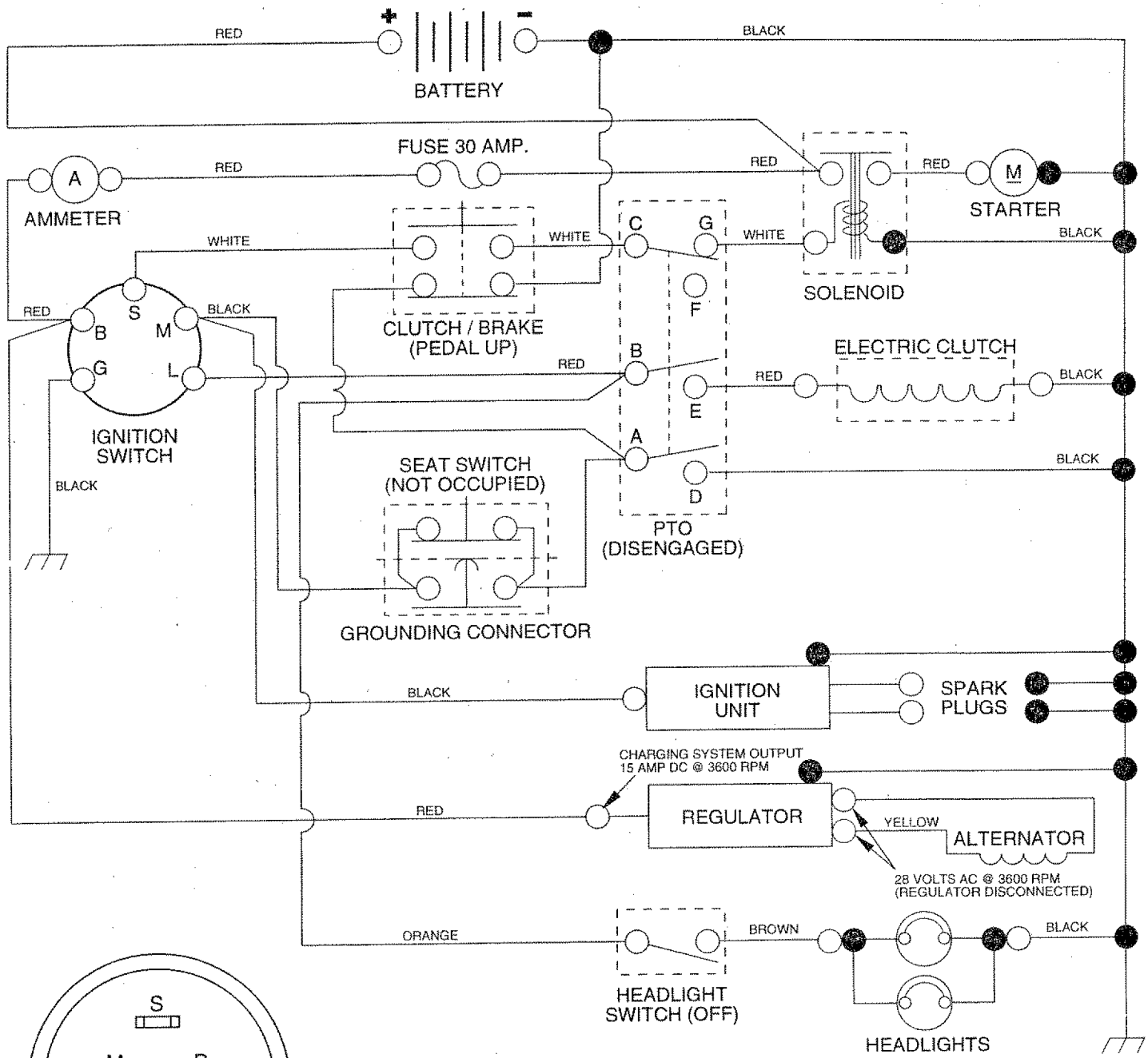
PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank.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

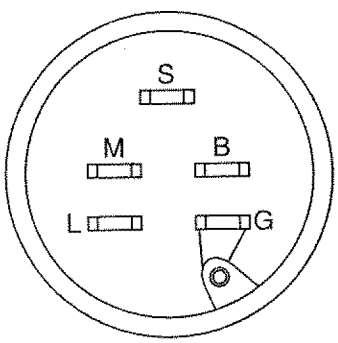
TROUBLESHOOTING POINTS

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

TRACTOR - - MODEL NUMBER 917.256701

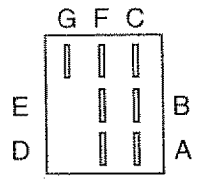
SCHEMATIC





NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

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

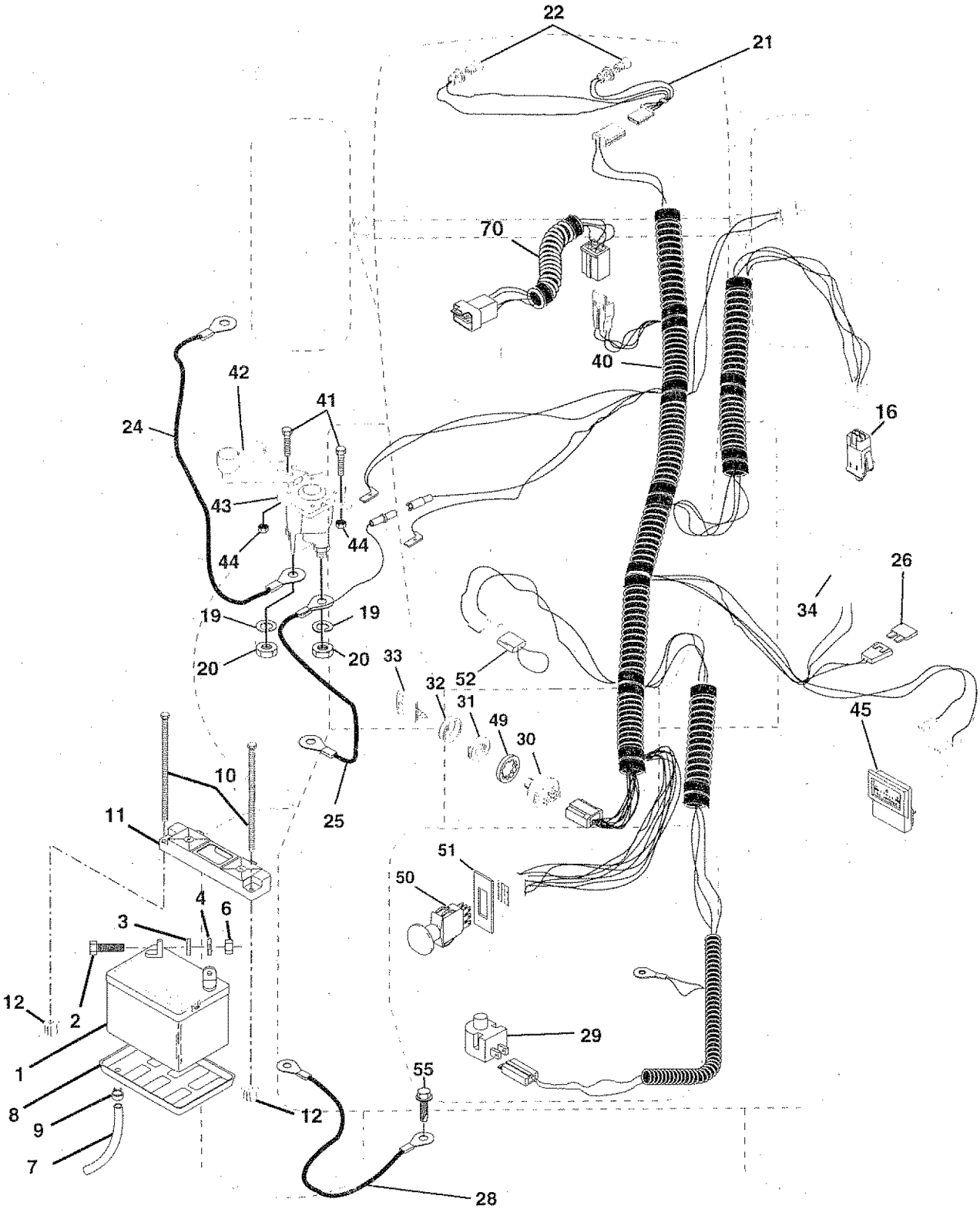
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

ELECTRICAL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

ELECTRICAL

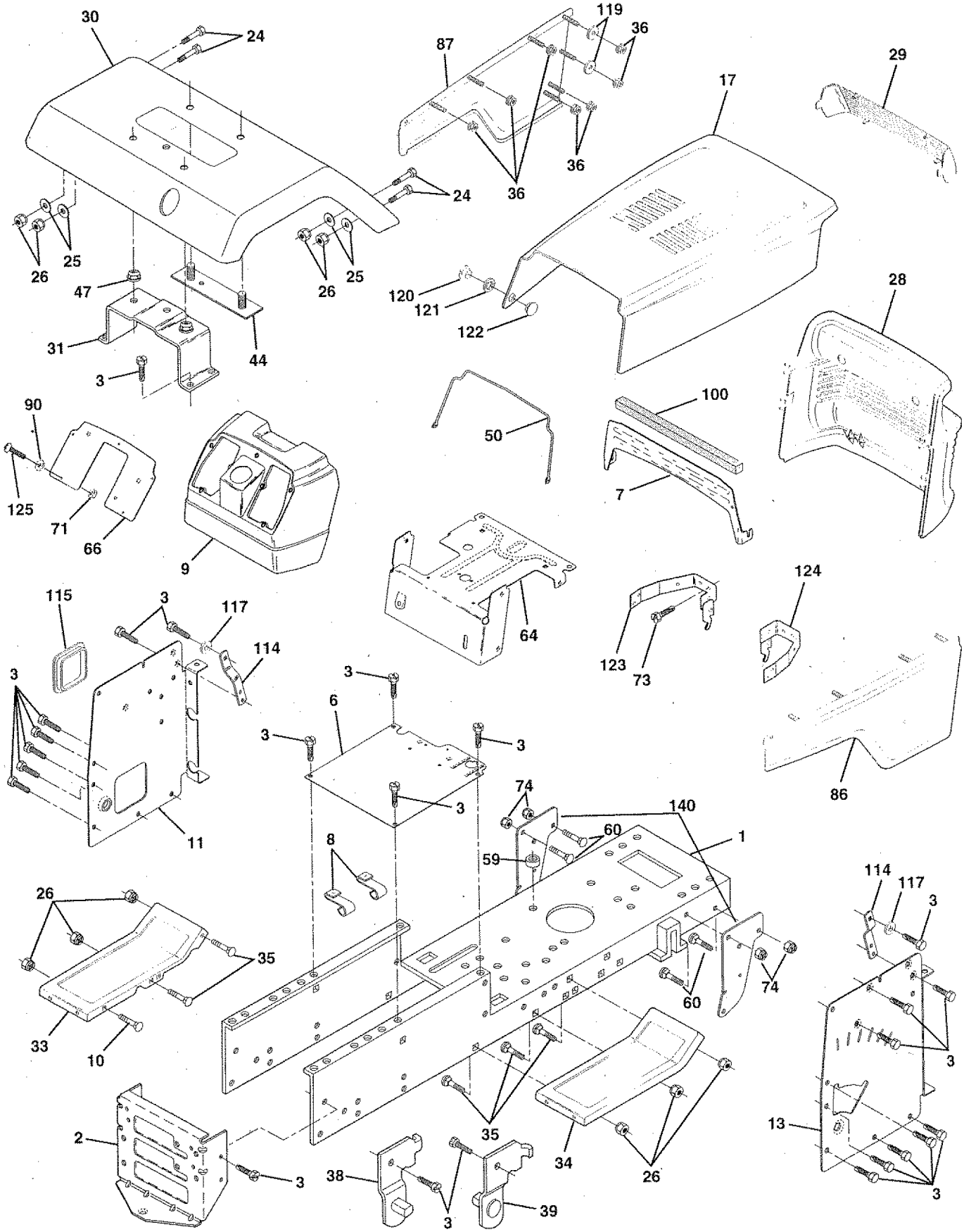
KEY NO.	PART NO.	DESCRIPTION
1	146140	Battery
2	74760412	Bolt, Hex 1/4-20 UNC x 3/4
3	STD551025	Washer
4	STD551125	Washer
6	STD541025	Nut
7	7697J	Tube, Plastic
8	7603J	Tray, Battery
9	109596X	Clamp, Hose
10	145211	Bolt, Btr. Frt 1/4-20 x 7.5
11	145209	Holddown Btr. Dash
12	145769	Nut, Push Nylon 1/4" 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	4799J	Cable Battery
25	146148	Cable, Battery
26	108824X	Fuse
28	145491	Cable, Ground
29	121305X	Switch, Plunger
30	144921	Switch, Ignition
31	140400	Nut, Ignition
32	141226	Cover, Ignition Switch
33	140403	Key, Ignition
34	110712X	Switch, Light
40	149170	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
49	153249	Washer Pinned Delta
50	146283	Switch PTO 3 Pot Red Delta
51	140405	Ring Retainer PTO
52	141940	Wire Loop
55	17490508	Screw Thdrol 5/16-18 x 1/2 TYT
70	140427	Harness Engine Koh 18 TWN 15 AR

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

CHASSIS AND ENCLOSURES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

CHASSIS AND ENCLOSURES

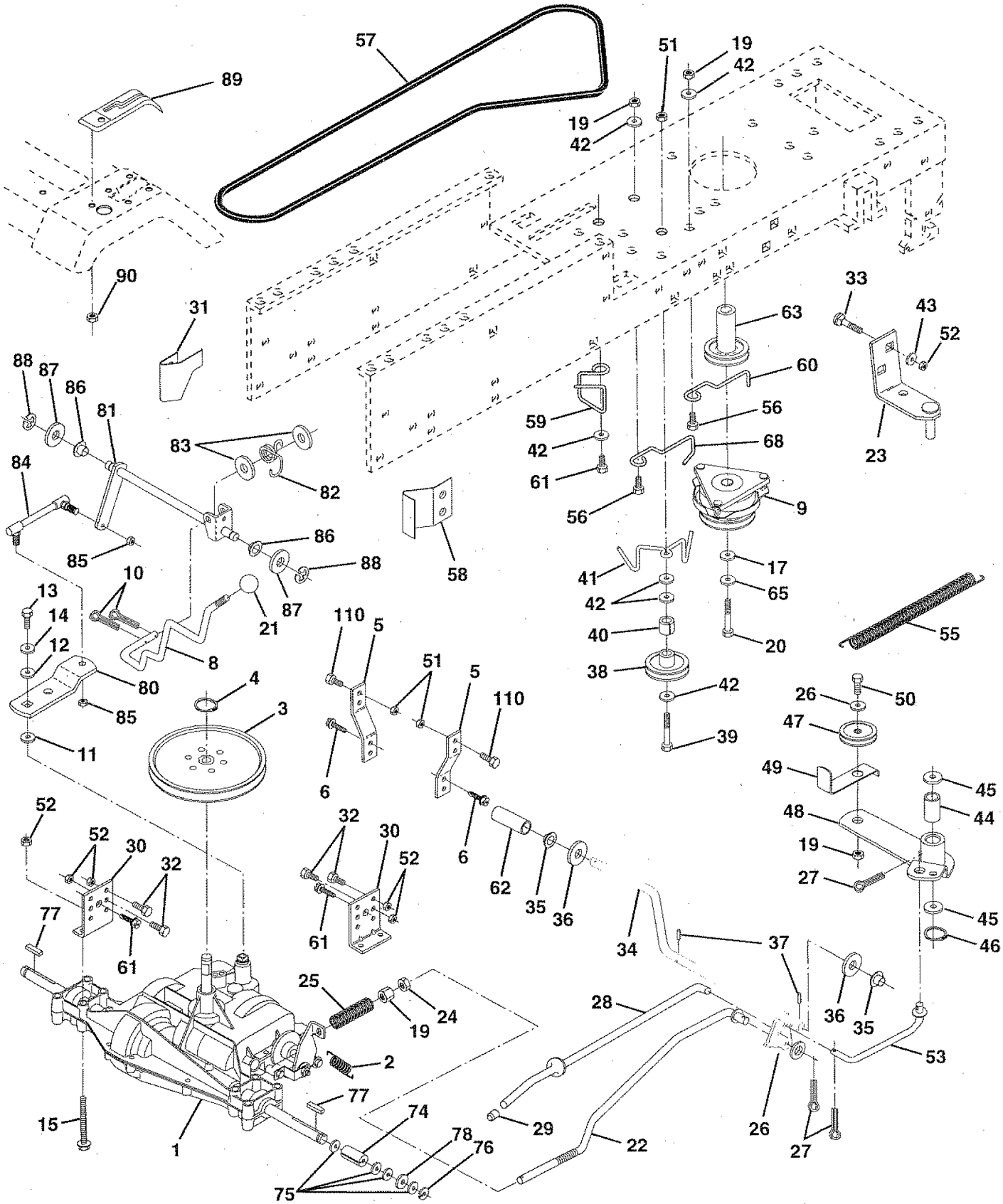
KEY NO.	PART NO.	DESCRIPTION
1	151169	Chassis
2	140356	Drawbar
3	17490612	Screw, Thdrol. 3/8-16 x 3/4 Type TT
6	145206	Saddle
7	145351	Shield Heat Kohler MV18
8	126471X	Clip, Fuel Line
9	145203	Dash, Plastic
10	72140608	Bolt, Carriage 3/8-16 x 1
11	145218	Panel, Dash, LH
13	145217	Panel, Dash, RH
17	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
60	72140606	Bolt Rdhd Sq NK 3/8-16 x 3/4
64	150272	Dash, Lower
66	143485X014	Plate, Dash
71	73640400	Nut
73	17580408	Screw Tap Tite 1/4-20 x 1/2
74	STD541437	Nut Crownlock 3/8-16 UNC
86	136670X558	Panel Assembly, RH
87	136671X558	Panel Assembly, LH
90	STD551025	Washer 17/64
100	105037X	Strip Foam 18"
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, Rachet, Male
123	136814	Bracket Assembly, Front Pivot Hinge, LH
124	136813	Bracket Assembly, Front Pivot Hinge, RH
125	74180412	Screw, Machine 1/4-20 x 3/4
140	150556	Bracket Chassis Front
- -	8022J	Plug Dash Blk 500 Dia E. Lift

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

DRIVE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

DRIVE

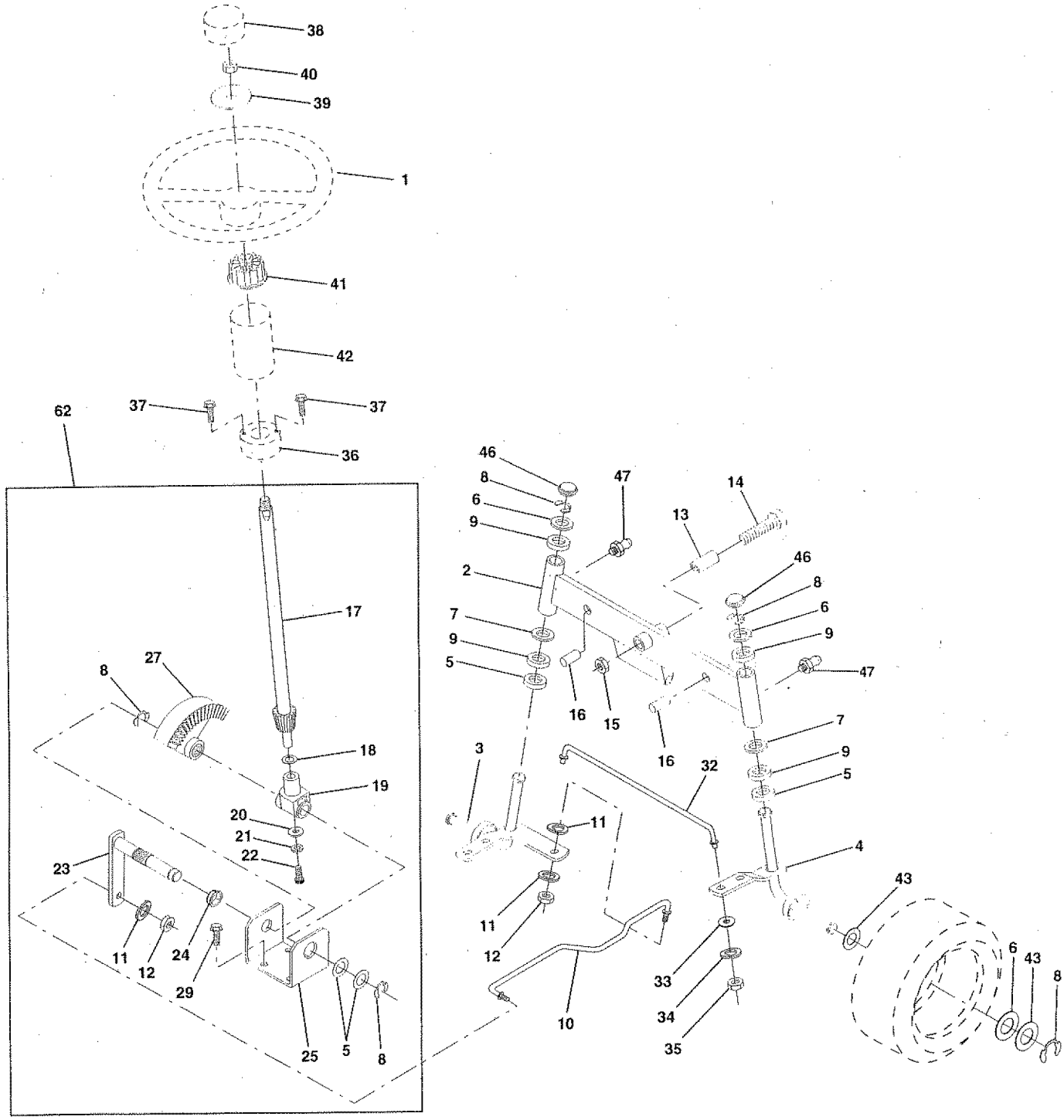
KEY NO.	PART NO.	DESCRIPTION
1	145607	Transaxle, Dana, Model Number 4360-97
2	146682	Spring, Brake Return
3	123666X	Pulley, Transaxle
4	12000028	Ring, Retainer
5	121520X	Strap, Torque
6	17490512	Screw, Hex, Washer, Thread Rolling 5/16-18 x 3/4
8	141002	Rod, Shifter
9	137140	Clutch, Electric
10	STD561210	Pin, Cotter 1/8 x 1
11	105701X	Washer, Shift Plate
12	19151216	Washer 15/32 x 3/4 x 16 Ga.
13	74550412	Bolt 1/4-28 UNF Gr. 8 w/Patch
14	STD551125	Washer Lock
15	74490544	Bolt, Hex Flghd 5/16-18 Gr. 5
17	126197X	Washer 15/32 x 1-3/4 x 1/4
18	STD523710	Bolt
19	STD541437	Locknut 3/8-16
20	150280	Bolt, Hex 7/16-20 x 4-1/4
21	106933X	Knob
22	130804	Rod, Brake
23	137141	Bracket Assembly, Clutch
24	STD541237	Nut, Hex Jam 3/8-16
25	106888X	Spring, Rod, Brake
26	STD551037	Washer 13/32 x 13/16 x 16 Gauge
27	STD561210	Pin, Cotter 1/8 x 3/4
28	145204	Rod, Brake, Park
29	124236X	Cap, Plunger
30	130807	Bracket, Transaxle, L.H.
31	127275X	Keeper, Belt, Transaxle, L.H.
32	74760512	Botl, Hex Hd. 5/16-18 UNC x 3/4
33	72140506	Bolt,Carriage 5/16-18 x 3/4
34	151128	Shaft, Foot Pedal
35	120183X	Bearing Nylon
36	STD551062	Washer 21/32 x 1 x 16 Gauge
37	STD571810	Pin,Roll 3/16 x 1
38	123674X	Idler, Flat
39	STD523727	Bolt, Hex 3/8-16 x 2-3/4
40	4470J	Spacer
41	153399	Keeper, Belt Idler
42	19131312	Washer 13/32 x 13/16 x 12 Gauge
43	19111012	Washer 11/32 x 5/8 x 12 Gauge
44	105706X	Bearing
45	110812X	Washer, Hardened
46	12000039	Ring, Clip
47	127783	Pulley, Idler
48	123789X	Arm, Idler
49	123205X	Retainer, Belt
50	STD523715	Bolt, Hex 3/8-16 x 1-1/2
51	STD541437	Nut, Crownlock 3/8-16
52	STD541431	Nut, Lock Hex w/Ins 5/16-18
53	105710X	Link, Clutch
54	2751R	Clip Line Fuel 13/32 Mtg Hole
55	105709X	Spring, Return, Clutch
56	74760620	Bolt, Fin. Hex 3/8-16 UNC x 1-1/4
57	130801	V-Belt, Drive
58	127274X	Keeper, Belt, Transaxle, R.H.
59	140312	Retainer, Belt
60	121218X	Keeper, Belt, Engine, LH
61	17490612	Screw, Hex Washer Head, Thd., Roll. 3/8-16 x 3/4
62	8883R	Cover, Foot Pedal
63	140189	Pulley, Engine
65	STD551143	Washer, Lock Hvy Hlcl Spr 7/16
68	105730X	Belt Keeper, Engine
74	109502X	Spacer, Split
75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
76	12000001	E-Ring
77	123583X	Key Square
78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
80	131487	Shift Arm
81	136933	Shaft, Assembly, Shifter
82	123782X	Spring, Torsion
83	19171216	Washer 17/32 x 3/4 x 16 Gauge
84	132183	Rod, Tie
85	150360	Nut, Lock Center 1/4-28 Fnthd.
86	71208	Bushing, Rod, Steering
87	19212016	Washer 21/32 x 1-1/4 x 16 Gauge
88	12000008	Ring, Klip
89	139991	Console, 6 Speed
90	124346X	Nut, Washer Head, Self-Thread 1/4
110	STD523707	Bolt, Fin Hex 3/8-16 x 3/4

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

STEERING ASSEMBLY



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

STEERING ASSEMBLY

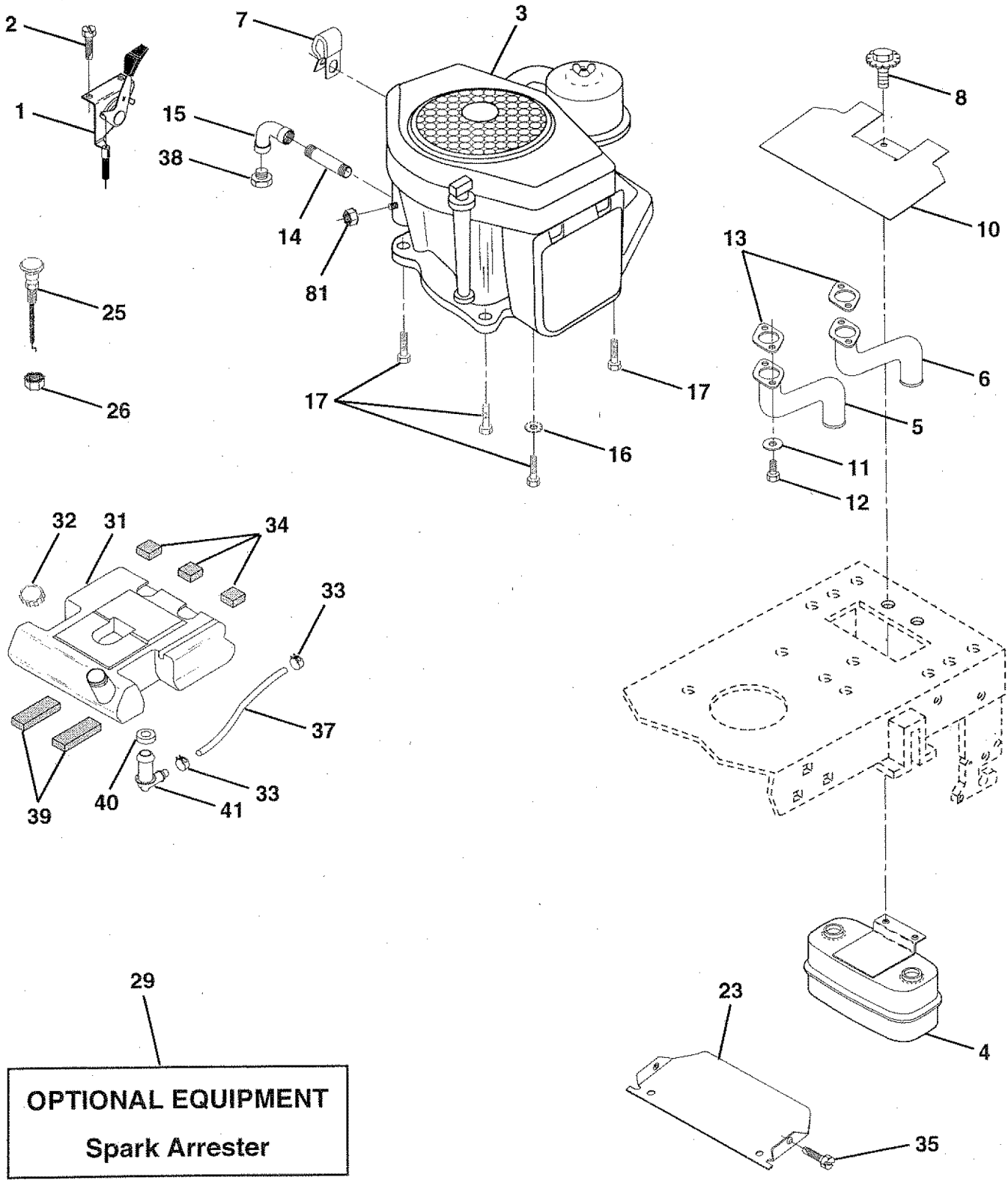
KEY NO.	PART NO.	DESCRIPTION
1	121472X	Steering Wheel
2	142033	Axle Assembly, Front
3	135227	Spindle Assembly, LH
4	135228	Spindle Assembly, RH
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing
10	130468	Link, Drag
11	STD551137	Washer, Lock
12	73610600	Nut, Hex, Fin. 3/8-24 UNF
13	110438X	Spacer, Bearing, Front Axle
14	74011056	Bolt, Hex 5/8-11 UNC x 3-1/2
15	73901000	Locknut, Hex, Jam, w/Washer Insert 5/8-11 UNC
16	132624	Pin, Axle, Large 5/8 x 1.55/1.54
17	128758	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
21	STD551125	Washer
22	71100410	Screw, Cap Sckt Hd Phos & Oil
23	127501	Shaft Assembly, Pittman
24	109816X	Nyliner, Snap-In
25	124036X	Bracket, Steering
27	136874	Gear, Sector
29	17490612	Screw, Thdrol 3/8-16 x 3/4
32	130467	Tie Rod
33	19111216	Washer 11/32 x 3/4 x 16 Ga.
34	STD551131	Washer Lock Hvy Hllcl Spr. 5/16
35	73810500	Locknut 5/16-24 UNF
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	STD541350	Nut
41	100711L	Adapter, Steering Wheel
42	140216	Column, Steering
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46	121232X	Cap, Spindle
47	6855M	Fitting, Grease
62	149682	Kit, Steering Assembly

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

ENGINE



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

ENGINE

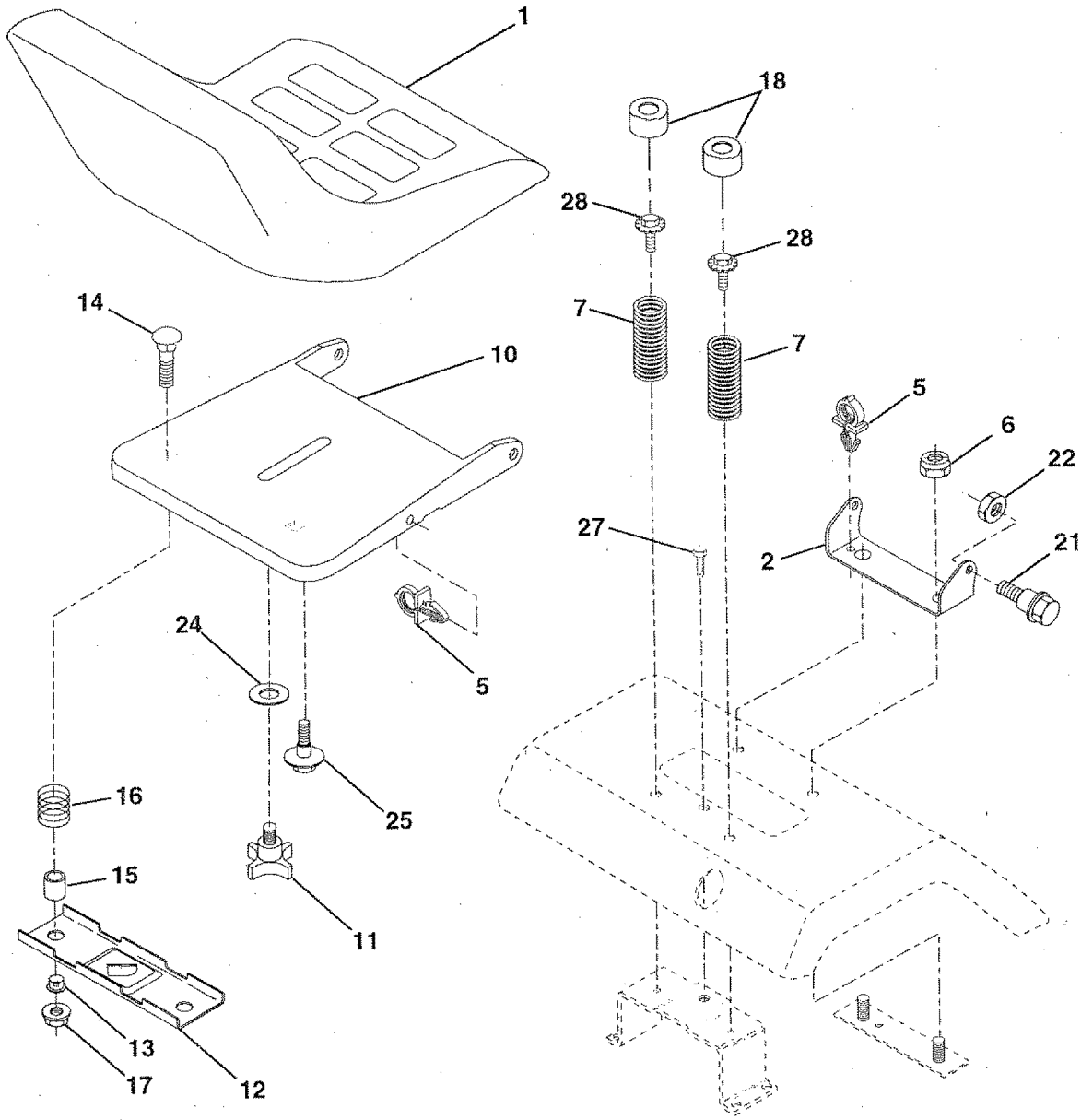
KEY NO.	PART NO.	DESCRIPTION
1	132755	Control, Throttle
2	17720410	Screw, Hex Head, Thread Cutting 1/4-20 x 5/8
3	141948	Engine, Kohler Model No. MV18S-58560
4	149723	Muffler, Asm. Twin Lo-Tone
5	136215	Tube Manifold LH Kohler MV18
6	136216	Tube Manifold RH Kohler MV18
7	138129	Clamp Tube Double Engine
8	150176	Bolt 5/16-18 UNC x 3/4 w/Sems
10	145552	Shield Heat
11	STD551131	Washer Lock Hvy HLCL Spr. 5/16
12	74570512	Screw Hex Skt 5/16 UNV x 3/4
13	- - - - - - - -	Gasket (Order From Engine Manufacturer)
14	13280336	Nipple, Pipe
15	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	11050600	Washer, Lock
17	17490624	Screw Thdrol 3/8-16 x 1-1/2 TT
23	150554	Shield, Browning
25	138672	Control Choke
26	73920600	Nut Keps 3/8-24 UNF
29	137180	Arrester, Spark
31	151346	Tank, Fuel
32	151296	Cap Assembly, Fuel
33	123487X	Clamp, Hose
34	106082X	Spacer, Pad
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	Spacer Pad
40	3645J	Bushing
41	139277	Stem, Fuel Tank
81	128861	Nut Flange 1/4-20 Starter Nut

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket, Pivot, Seat
5	145006	Clip Push-In
6	73800600	Nut, Lock Hex w/Ins. 3/8-16 UNC
7	124181X	Spring, Seat
10	140552	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

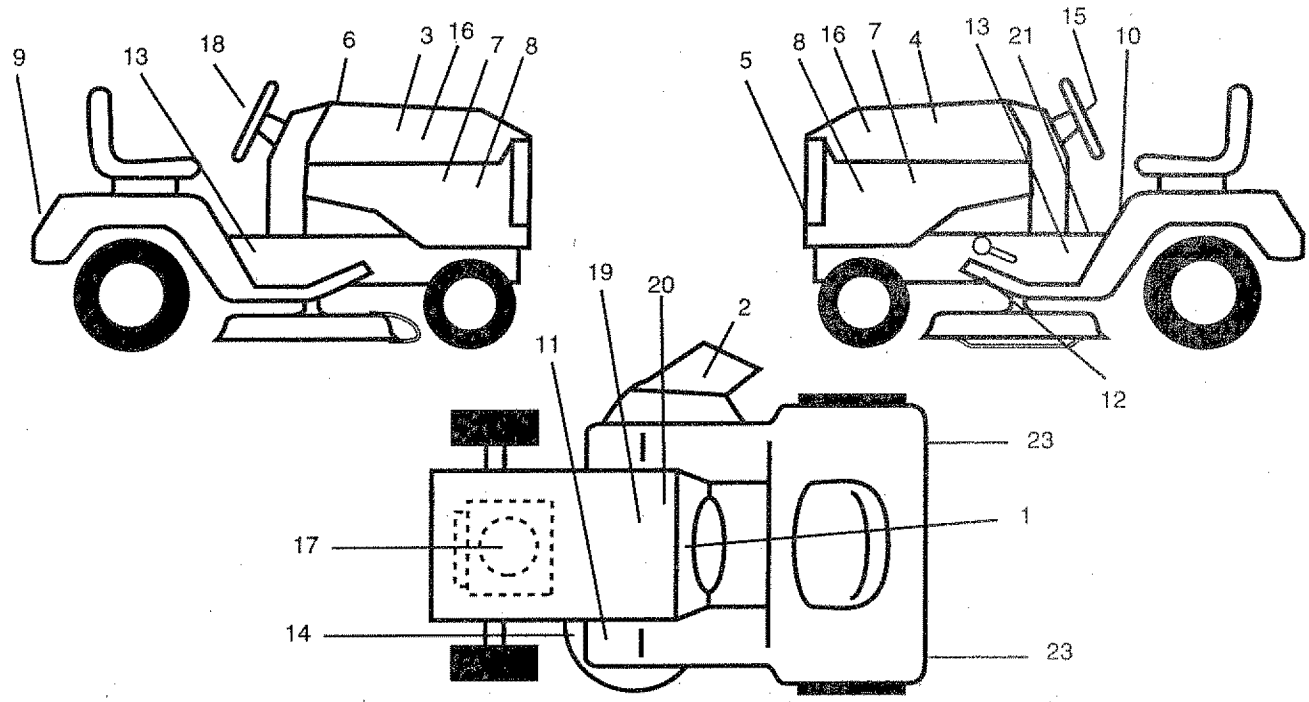
KEY NO.	PART NO.	DESCRIPTION
16	121250X	Spring
17	123976X	Nut, Flangelock 1/4 Grade 5
18	124238X	Cap, Spring, Seat
21	153236	Bolt, Shoulder 5/16-18 UNC - 2A
22	STD541431	Nut
24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
25	127018X	Bolt, Shoulder 5/16-18 x .62
27	17490608	Screw Thdrol. 3/8-16 x 1/2
28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

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

REPAIR PARTS

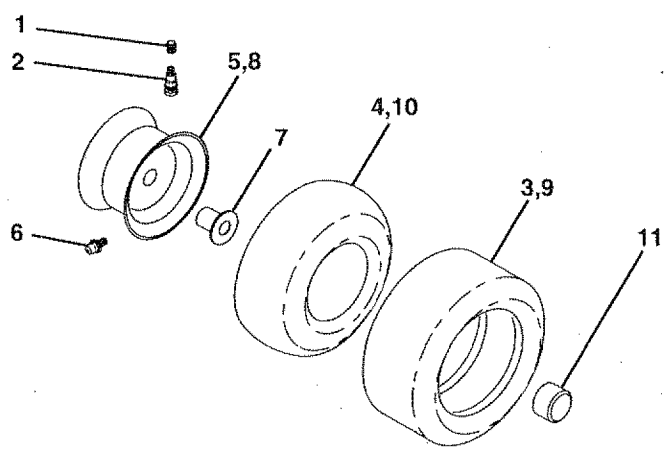
TRACTOR - - MODEL NUMBER 917.256701

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	138955	Decal, Operating Instruction
2	151302	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	142243	Decal, Side Panel
9	146709	Decal, Fender, Craftsman
10	137537	Decal, Caution
11	4900J	Decal, Clutch/Brake
12	146046	Decal, V-Belt Drive Schematic
13	151452	Decal, Chassis, 46" 6 Sp Srs. Polo
14	139346	Decal, V-Belt Schematic
15	150333	Decal, Cap Cnsmr Help Line Srs.
16	147137	Decal Ins. Hood
17	52-113-50	Decal, HP Engine
18	146710	Decal, Insert Strg
19	138047	Decal, Battery
20	149516	Decal, Btry, Dngr/Psn. Eng. Acme
21	140837	Decal, Brake Parking Saddle
23	106202X	Reflector, Taillight
- -	138311	Decal, Handle Lift Height Adj.
- -	145245	Decal, Pad Footrest
- -	145247	Fastener Pop-In Footrest
- -	153987	Manual, Owner's (Eng)
- -	153988	Manual, Owners (Span)

WHEELS & TIRES



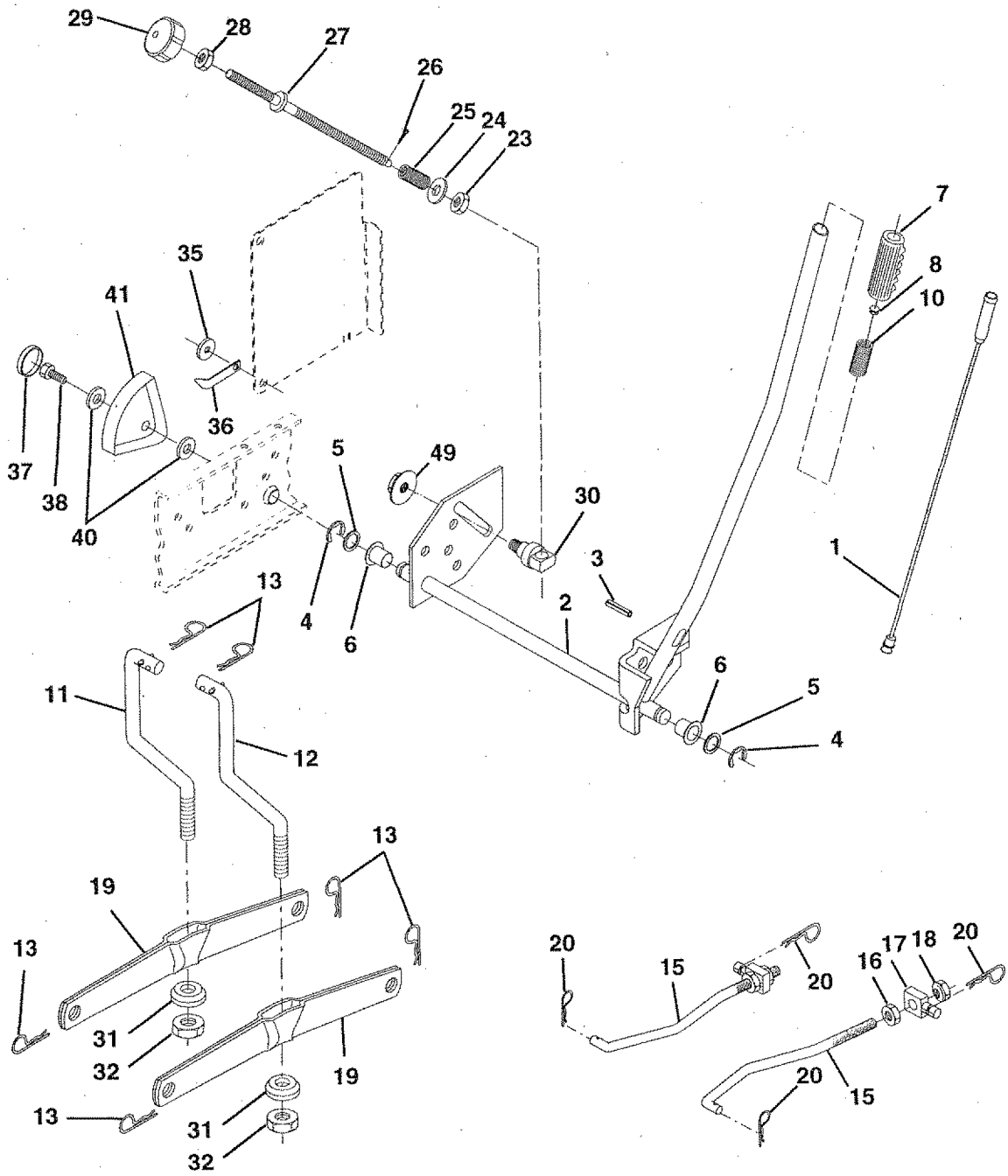
KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front (Service Item Only)
5	106732X427	Rim Assembly, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim Assembly, Rear
9	122082X	Tire, 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 917.256701

MOWER LIFT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

MOWER LIFT

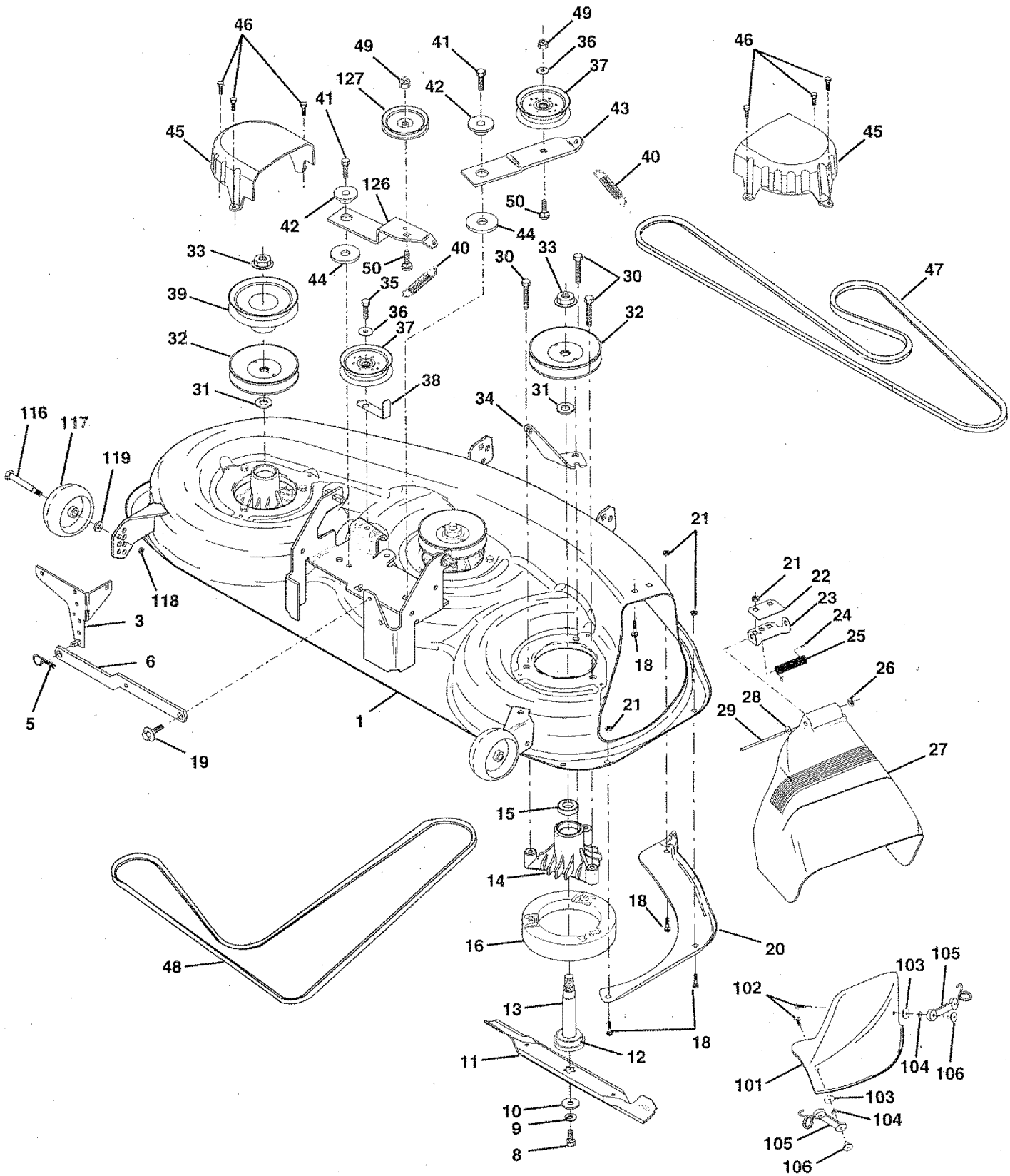
KEY NO.	PART NO.	DESCRIPTION
1	136971	Wire Asm., Inner w/plunger
2	136968	Shaft Asm Lift
3	138284	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 21/32 X 1 X 21 Ga
6	120183X	Bearing Nylon
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
10	122512X	Spring Cprsn
11	139865	Link Lift Lh
12	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	137150	Spring"
26	76020308	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 Infin Height
31	140302	Bearing Pvt. Lift Spherical
32	73540600	Nut, Crownlock 3/8-24
35	120529X	Washer, Nylon .44 x .75 x .032
36	123933X505	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

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

MOWER DECK



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

MOWER DECK

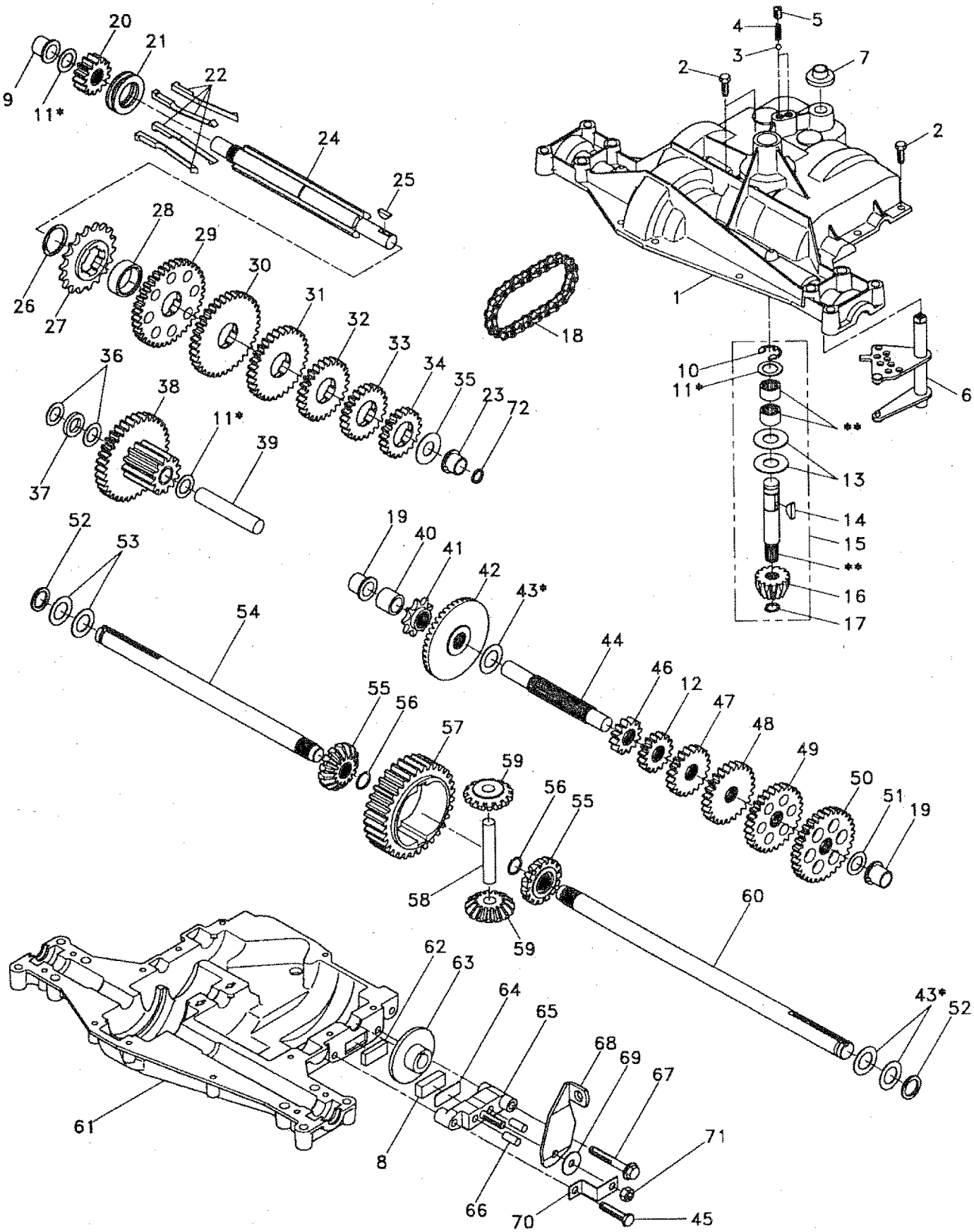
KEY NO.	PART NO.	DESCRIPTION
1	153125	Housing, Mower 46"
3	138457	Bracket Asm., Sway Bar
5	STD624008	Retainer Spring
6	130832	Arm, Suspension, Rear (Sway Bar)
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8
9	STD551137	Washer, Lock Hvy., Unplated 3/8
10	140296	Washer, Hard Blade, Mower Vented
11	152443	Blade, 46" Mower Deck
12	129895	Bearing, Ball, Mandrel #6204
13	137553	Shaft Asm. w/Lower Bearing (Includes Key No. 12)
14	137152	Housing, Mandrel
15	110485X	Bearing, Ball, Mandrel
16	140329	Stripper, Mower Round
18	72140505	Bolt, Carriage 5/16-18 x 5/8
19	132827	Bolt, Hex Head, Shoulder 5/16-18
20	145055	Baffle, Vortex Mower 46"
21	STD541431	Nut, Crownlock 5/16-18 UNC
22	134753	Stiffiner, Bracket
23	131267	Bracket, Deflector
24	105304X	Cap, Sleeve
25	123713X	Spring, Torsion, Deflector
26	110452X	Nut, Push
27	145325	Shield, Deflector Mower
28	19111016	Washer 11/32 x 5/8 x 16 Ga.
29	131491	Rod, Hinge
30	138776	Screw, Hex Head, Thdroll
31	129963	Washer, Spacer Mower Vented
32	153531	Pulley, Mandrel
33	137266	Nut, Flg. Top Lock Cntr. 9/16
34	144945	Anchor, Spring Deck 46"
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt
36	19131316	Washer 13/32 x 13/16 x 16 Ga.
37	131494	Pulley, Idler, Flat
38	137554	Keeper, Belt, Idler
39	144917	Pulley, Idler, Driven
40	137273	Spring, Secondary 44/46/50 Vent
41	17490620	Screw, Thdroll 3/8-16 x 1-1/4 Tytt
42	122052X	Spacer, Retainer
43	144949	Arm, Idler Secondary
44	133943	Washer, Hardened
45	145059	Cover, Mandrel Deck
46	137729	Screw, Thdroll. 1/4-20 x 5/8
47	144959	V-Belt, Mower, Secondary
48	148763	V-Belt, Mower, Primary
49	STD541437	Nut, Crownlock 3/8-16 UNC
50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5
101	145579	Cover, Mulching
102	71161010	Screw
103	10071000	Washer, Lock #10
104	19061216	Washer
105	130758	Latch Asm. Bagger
106	2029J	Nut, Weld
116	137644	Bolt, Shoulder
117	133957	Gauge Wheel, Wide
118	73930600	Nut, Centerlock 3/8-16 UNC
119	19121414	Washer 3/8 x 7/8 x 14 Ga.
126	144948	Arm, Idler, Primary Deck 46"
127	146763	Pulley, Idler, V-Groove Dim. 4.25
- -	151775	Deck Complete (Std. Deck-Order separately mulcher plate and gauge wheel components Key Nos. 101-106 and 116-118)
- -	143651	Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33)

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

DANA TRANSAXLE - MODEL NUMBER 4360-97



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

DANA TRANSAXLE - MODEL NUMBER 4360-97

KEY NO.	PART NO.	DESCRIPTION
1	132671	Housing, Upper
2	2274J	Screw, Tapping, Large 1/4-20 x .734
3	134400	Ball, Detent
4	105904X	Spring, Detent
5	105905X	Screw, Set
6	134788	Kit, Shifter Assembly
7	134399	Boot, Shifter
8	120951X	Puck, Friction
9	148266	Bearing, Flange
10	2225J	Ring, Retaining
11	134793	Assembly, Kit, Shim, .625 Shaft
12	143679	Gear, Spur, 15 Teeth (2nd)
13	120415X	Washer, Plain .632 x 1.38 x .046
14	142674	Key, Woodruff, #9
15	106846X	Assembly, Kit, Input Shaft
16	106095X	Pinion, Bevel, 14 Teeth
17	105909X	Ring, Retaining
18	105910X	Chain, 24 Pitches
19	105911X	Bearing, Flange
20	142675	Gear, Spur, 14 Teeth
21	138246	Collar, Clutch
22	138238	Assembly, Kit, Clutch Keys
23	148268	Bearing, Flange
24	143673	Shaft, Intermediate
25	2244J	Key, Woodruff, #61
26	105916X	Ring, Retaining
27	120470X	Sprocket, 18 Teeth (Reverse)
28	110070X	Spacer
29	142677	Gear, Spur, 37 Teeth (1st)
30	142681	Gear, Spur, 35 Teeth (2nd)
31	124644X	Gear, Spur, 30 Teeth (3rd)
32	108980X	Gear, Spur, 25 Teeth (4th)
33	120406X	Gear, Spur, 22 Teeth (5th)
34	134796	Gear, Spur, 19 Teeth (6th)
35	105925X	Washer, Plain .640 x 1.37 x .061
36	2232J	Washer, Plain .632 x 1.00 x .026
37	108978X	Spacer .630 x 1.00 x .l69
38	110079X	Assembly, Gear, Combination, 12 Teeth and 35 Teeth
39	124639X	Shaft, Idler
40	120472X	Spacer .633 x .87 x .755
41	105928X	Sprocket, 9 Teeth (Reverse)
42	106605X	Gear, Bevel, 42 Teeth
43	134394	Assembly, Kit, Shim, .750 Shaft
44	120473X	Shaft, Drive
45	106596X	Screw, Tapping, Large 5/16-18 x 1.44
46	142678	Gear, Spur, 12 Teeth (1st)
47	120407X	Gear, Spur, 20 Teeth (3rd)
48	106589X	Gear, Spur, 25 Teeth (4th)
49	120408X	Gear, Spur, 28 Teeth (5th)
50	105937X	Gear, Spur, 31 Teeth (6th)
51	2226J	Washer, Plain .632 x 1.00 x .060
52	134401	Washer, Neoprene
53	2264J	Washer, Plain .758 x 1.25 x .031
54	120474X	Axle, L.H.
55	110081X	Gear, Miter, 15 Teeth
56	105941X	Ring, Retaining
57	110071X	Gear, Spur, 32 Teeth
58	120952X	Shaft, Cross
59	106592X	Gear, Miter, 15 Teeth
60	120475X	Axle, R.H.
61	142680	Housing, Lower
62	120961X	Puck, Friction
63	7294J	Disc, Brake
64	108989X	Spacer
65	120953X	Jaw, Brake
66	120954X	Pin, Dowel
67	134799	Screw, Tapping 5/16-18 x 2.25
68	138244	Lever, Actuating
69	108996X	Washer, Plain .321 x 1.00 x .055
70	120956X	Bracket, Anti-Rotation
71	73810500	Locknut 5/16-24
72	148269	Seal, Oil
73	120416X	Grease

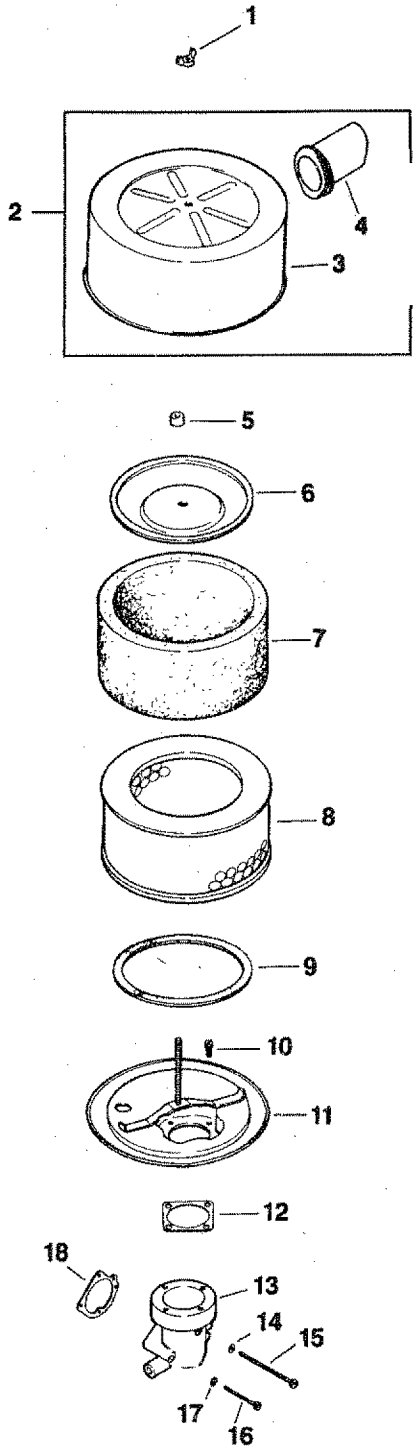
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

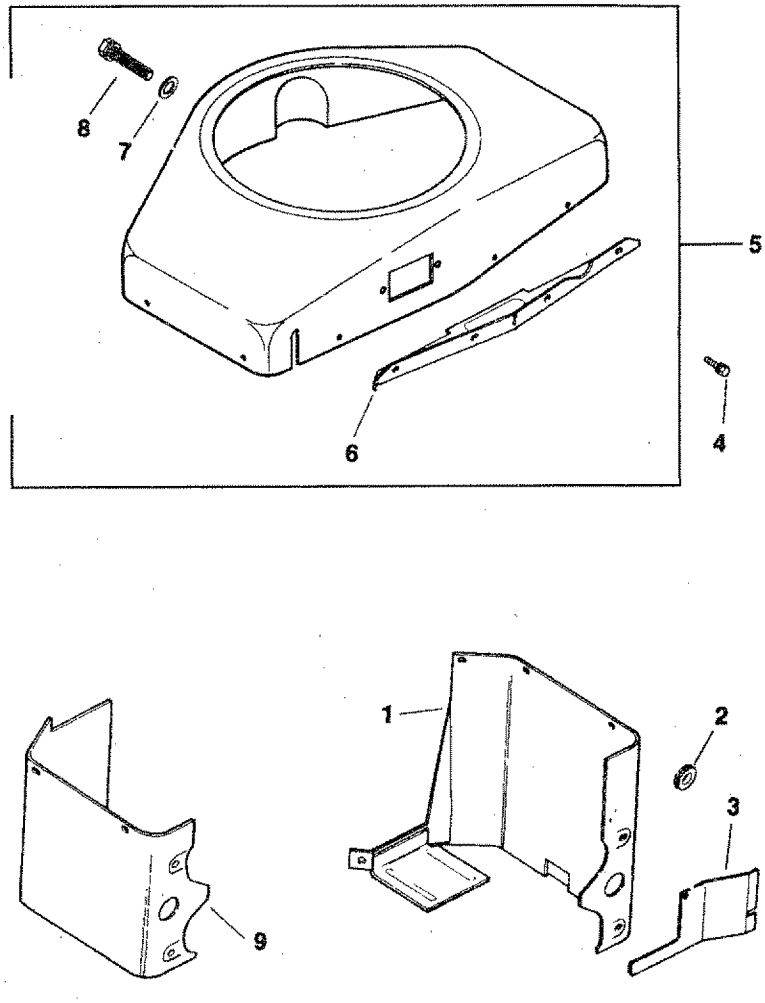
TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

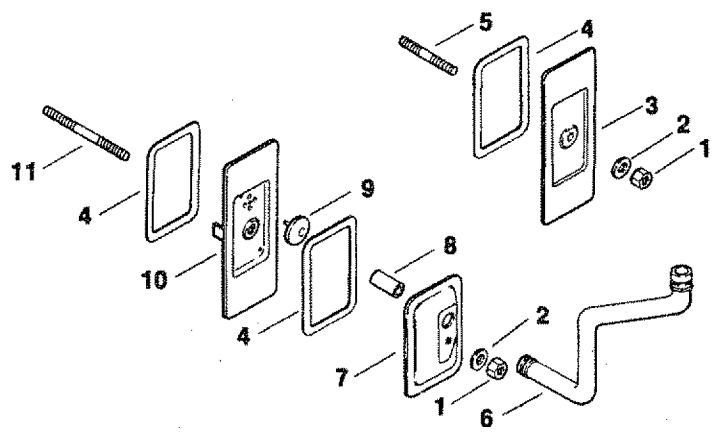
AIR INTAKE



BAFFLES AND SHROUD



BREATHER AND VENT



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

AIR INTAKE

KEY NO.	PART NO.	DESCRIPTION
1	X-276-7	Wing Nut 1/4-20
2	52 755 83	Kit, Cover and Tube (Includes Key Numbers 3 and 4)
3	52 096 35	Cover, Air Cleaner
4	52 123 21	Tube, Air Intake
5	231032	Seal, Element Cover
6	52 082 04	Cover, Air Cleaner Element
7	45 083 01	Pre-Cleaner
8	45 083 02	Element
9	237423	Seal, Air Cleaner Cover
10	X-67-98	Screw, Hex Washer Head #10-32 x 9/16 (4)
11	52 201 06	Base, Air Cleaner
12	277093	Gasket, Air Cleaner (2)
13	52 054 39	Elbow, Air Intake
14	X-25-79	Washer, Plain #10
15	X-50-37	Screw, Slotted Pan Head #10-32 x 2-1/4
16	X-50-57	Screw, Slotted Pan Head #10-32 x 1-3/4 (2)
17	X-22-9	Washer, Lock, Internal Tooth #10 (2)
18	25 041 06	Gasket, Air Cleaner Elbow
NOT ILLUSTRATED		
- -	25 113 15	Decal, Air Cleaner
- -	52 113 30	Decal

BAFFLES & SHROUD

KEY NO.	PART NO.	DESCRIPTION
1	52 063 41	Baffle, #2 Cylinder Head
2	52 313 05	Grommet (2)
3	52 063 42	Baffle, Fuel Pump
4	X-67-83	Screw, Hex Washer Head 1/4-20 x 7/16 (14)
5	52 755 70	Kit, Blower Housing (Includes Key Numbers 6 thru 8)
6	52 217 01	Support, Upper Housing
7	52 468 16	Washer, Flat (2)
8	52 086 11	Screw 1/4-20 x 5/8 (6)
9	52 124 23	Baffle, #1 Cylinder Head
NOT ILLUSTRATED		
- -	52 113 46	Decal, Horsepower (3)

BREATHER & VENT

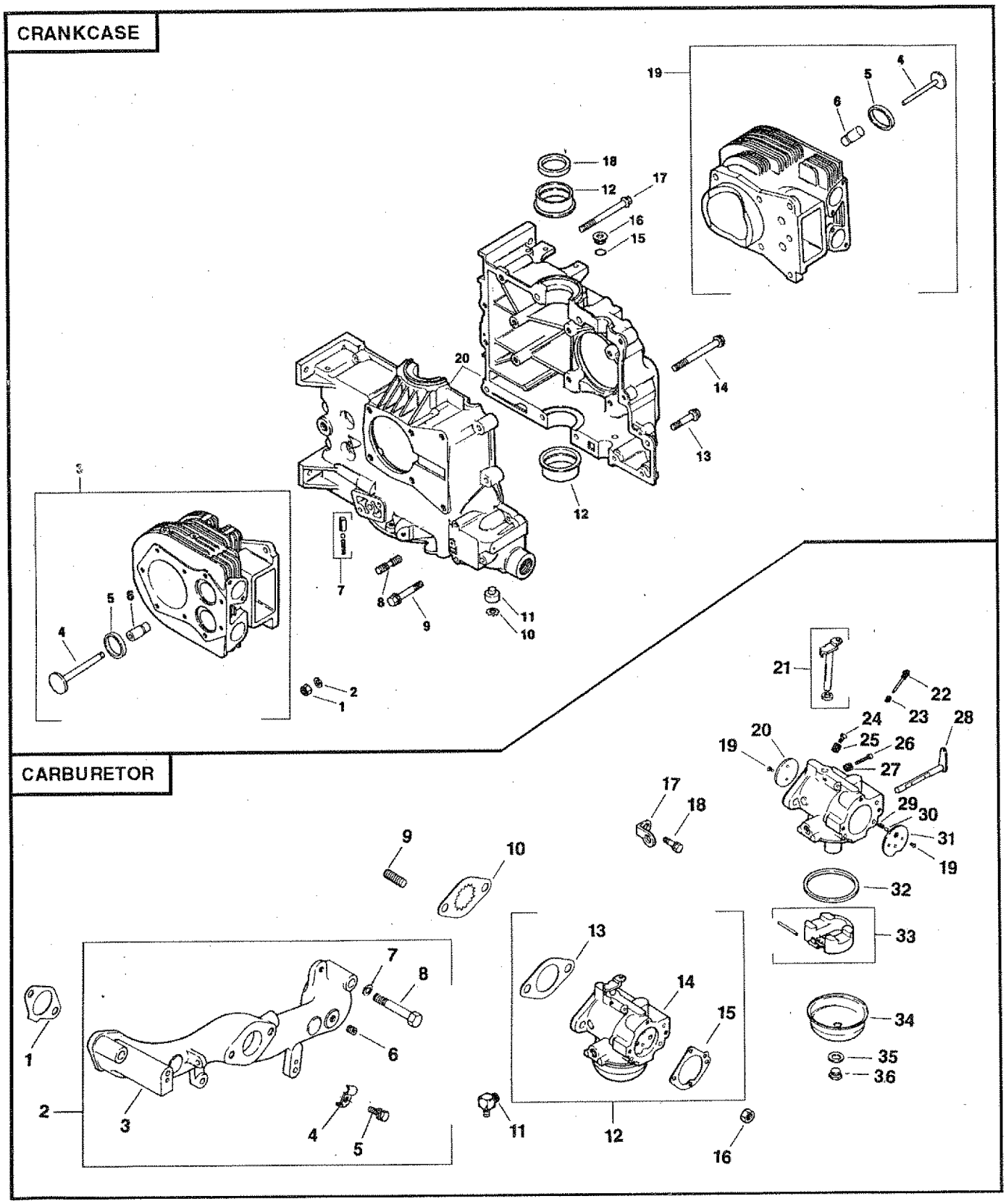
KEY NO.	PART NO.	DESCRIPTION
1	X-81-1	Nut, Hex 1/4-20 (2)
2	X-25-12	Washer, Plain 1/4 (2)
3	52 096 18	Cover, #2 Cylinder Valve
4	52 055 01	Gasket, Cover (3)
5	X-352-39	Stud, #2 Cylinder Valve Cover 1/4-20 x 2-1/4
6	52 326 12	Hose, Breather
7	52 096 08	Cover, #1 Upper Cylinder Valve
8	52 032 04	Seal, Breather
9	52 462 01	Valve, Umbrella
10	52 096 22	Cover, #1 Lower Cylinder Valve
11	275220	Stud, #1 Cylinder Valve Cover 1/4-20 x 3-1/4

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

REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION
1	X-82-2	Nut, Hex 5/16-18 (12)
2	52 468 12	Washer, Flat 5/16 (12)
3	82 755 16	Kit, #1 Cylinder Barrel (Includes Key Numbers 4 thru 6)
4	52 016 05	Valve, Exhaust
5	52 031 01	Insert, Valve Seat (2)
6	52 316 06	Guide, Valve (2)
7	52 755 50	Kit, Oil Relief
8	52 072 12	Step Stud 5/16-18 x 3/4, 3/8-16 x 5/8, 2" Long (12)
9	25 086 12	Screw, Hex Flange 5/16-18 x 2 (2)
10	X-269-43	Ring, Retaining
11	52 078 05	Shaft, Governor
12	52 030 10	Bearing, Sleeve, Standard (2)
	52 030 11	Bearing, Sleeve .010" (2)
	52 030 12	Bearing, Sleeve .020" (2)
13	25 086 10	Screw, Hex Flange 5/16-18 x 1-1/2 (3)
14	25 086 13	Screw, Hex Flange 3/8-16 x 3-5/8 (2)
15	52 141 02	O-Ring
16	52 139 08	Plug
17	25 086 11	Screw, Hex Flange 5/16-18 x 3-1/2 (8)
18	52 032 10	Seal, Oil, Front
19	82 755 17	Kit, #2 Cylinder Barrel (Includes Key Numbers 4 thru 6)
20	- - -	Crankcase (Service with Short Block, Part Number 82 522 30)

CARBURETOR

KEY NO.	PART NO.	DESCRIPTION
1	52 041 09	Gasket, Intake (2)
2	52 755 91	Kit, Manifold (Includes Key Numbers 3 thru 8)
3	52 164 15	Manifold, Intake
4	X-21-1	Washer, Lock 5/16 (4)
5	X-6-29	Screw, Hex Cap 5/16-18 x 2 (4)
6	X-75-23	Plug, Hex, Countersunk 1/8 N.P.T.F.
7	235778	Clamp, Cable (2)
8	X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (2)
9	41 072 19	Stud 5/16-18 x 1 (2)
10	52 063 40	Baffle, Carburetor
11	25 155 02	Connector, Hose
12	52 853 25	Kit, Carburetor with Gasket (Includes Key Numbers 12 thru 14)
13	271030	Gasket, Carburetor (2)
14	52 053 54	Carburetor Assembly (Information Only - Not Available Separately) (Includes Key Numbers 18 thru 35)
15	25 041 06	Gasket, Air Cleaner
16	X-77-2	Nut 5/16 (2)
17	232867	Strap, Lifting
18	X-67-62	Screw, Hex Washer Head 1/4-20 x 3/4
19	25 086 27	Screw, Throttle and Choke Plate (4)
20	25 146 03	Plate, Choke
21	52 144 24	Shaft, Throttle with Lever and Seal
22	25 368 01	Needle, Idle Fuel Adjust
23	25 089 02	Spring, Idle, Fuel
24	25 086 26	Screw, Idle Speed Adjust
25	25 089 04	Spring, Idle Speed
26	25 368 03	Needle, Main Fuel
27	25 089 02	Spring, Main Fuel
28	52 090 13	Lever, Choke
29	25 089 03	Spring, Choke, Friction
30	25 194 01	Ball, Choke, Friction
31	25 146 02	Plate, Throttle
32	25 041 04	Gasket, Bowl
33	25 757 09	Kit, Float
34	25 104 01	Bowl, Fuel
35	25 041 03	Gasket, Bowl Retainer Screw
36	25 100 05	Screw, Bowl Retainer

NOT ILLUSTRATED

- -	25 757 11	Kit, Carburetor Repair
- -	25 757 23	Kit, Bowl Baffle

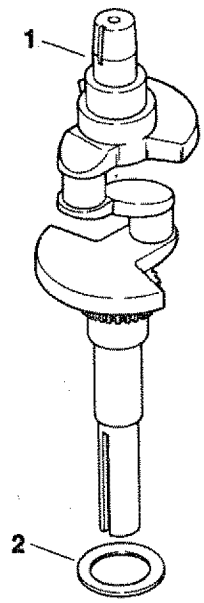
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

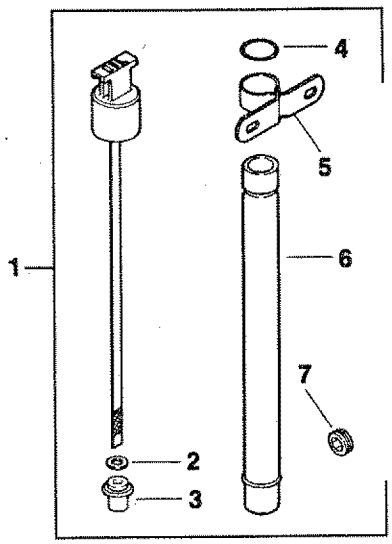
TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

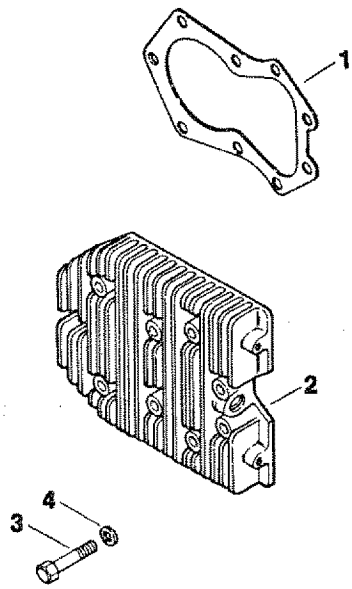
CRANKSHAFT



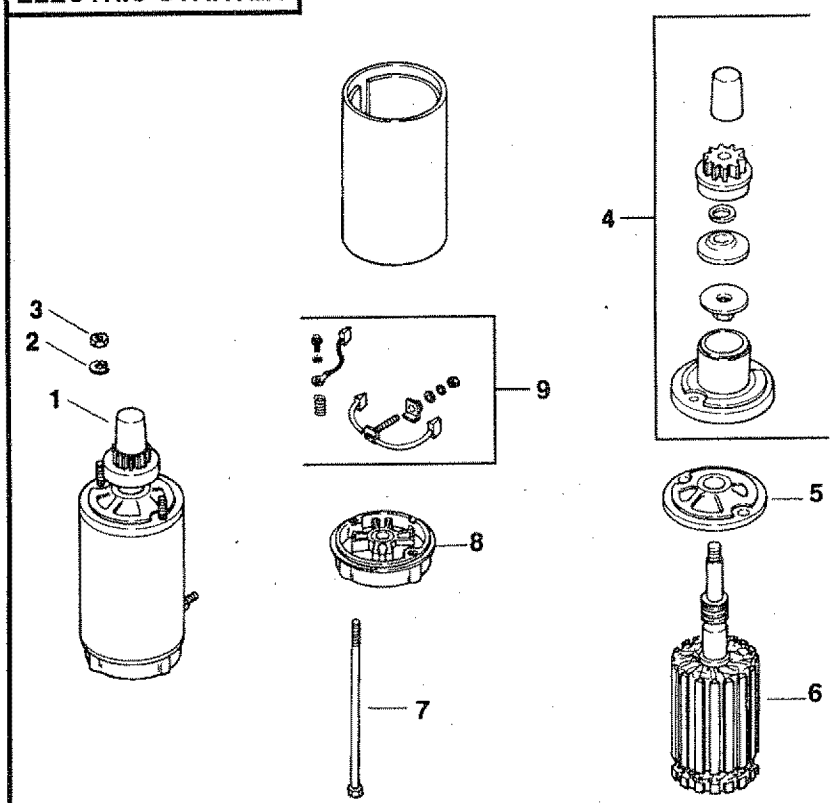
DIPSTICK



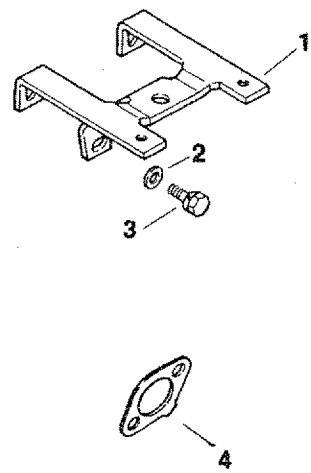
CYLINDER HEAD



ELECTRIC STARTER



EXHAUST



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION
1	52 014 93	Crankshaft
2	52 468 03	Washer, Thrust .119/.122 (A.R.)
	52 468 04	Washer, Thrust .128/.131
	52 468 05	Washer, Thrust .137/.140 (A.R.)

DIPSTICK

KEY NO.	PART NO.	DESCRIPTION
1	52 038 14	Dipstick Assembly (Includes Key Numbers 2 and 3)
2	X-25-44	Washer, Plain 5/16
3	52 032 14	Seal, Rubber
4	41 153 01	O-Ring
5	52 126 11	Bracket, Oil Tube Support
6	52 123 20	Tube, Oil Fill 11-7/8
7	47 139 01	Plug, Hex, Countersunk 3/4 N.P.T.F.

CYLINDER HEAD

KEY NO.	PART NO.	DESCRIPTION
1	52 041 20	Gasket, Head (2)
2	52 015 08	Cylinder Head (2)
3	220534	Washer, Plain 5/16 (18)
4	41 086 02	Screw, Hex Head 5/16-18 x 1-1/2 (18)

ELECTRIC STARTER

KEY NO.	PART NO.	DESCRIPTION
1	52 098 12	Starter Assembly (Includes Key Numbers 4 thru 9)
2	X-20-1	Washer, Lock 1/4 (2)
3	X-81-1	Nut, Hex 1/4-20 (2)
4	82 755 26	Kit, Drive
5	52 081 07	Cap, Drive End
6	52 170 05	Armature
7	52 211 01	Bolt, Thru (2)
8	52 227 10	Cap, Commutator End
9	82 755 28	Kit, Brush
NOT ILLUSTRATED		
- -	25 450 03	Tag, Caution

EXHAUST

KEY NO.	PART NO.	DESCRIPTION
1	52 126 12	Bracket
2	X-25-72	Washer, Plain (3)
3	52 086 11	Screw 1/4-20 x 5/8 (3)
4	52 041 14	Gasket, Exhaust (2)

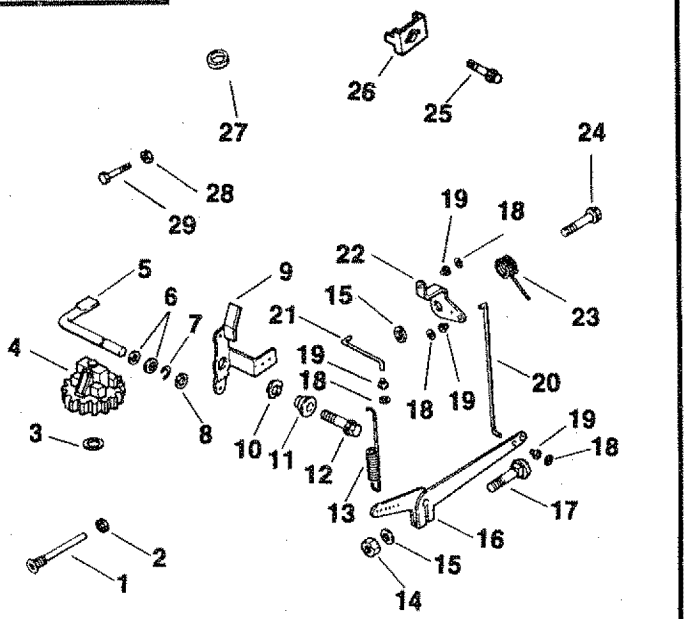
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

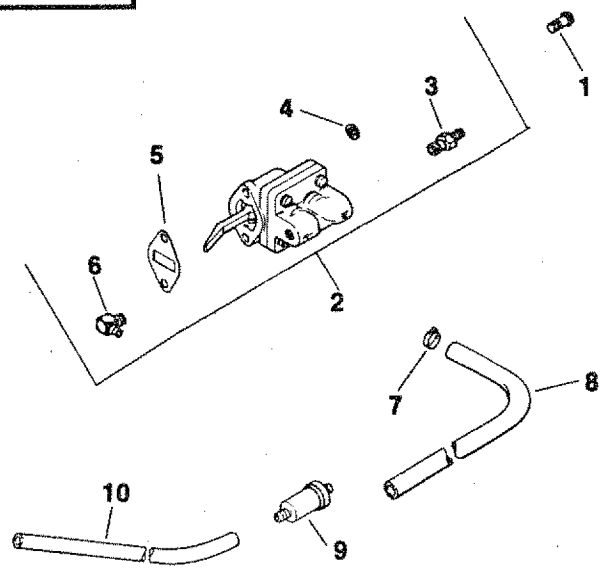
TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

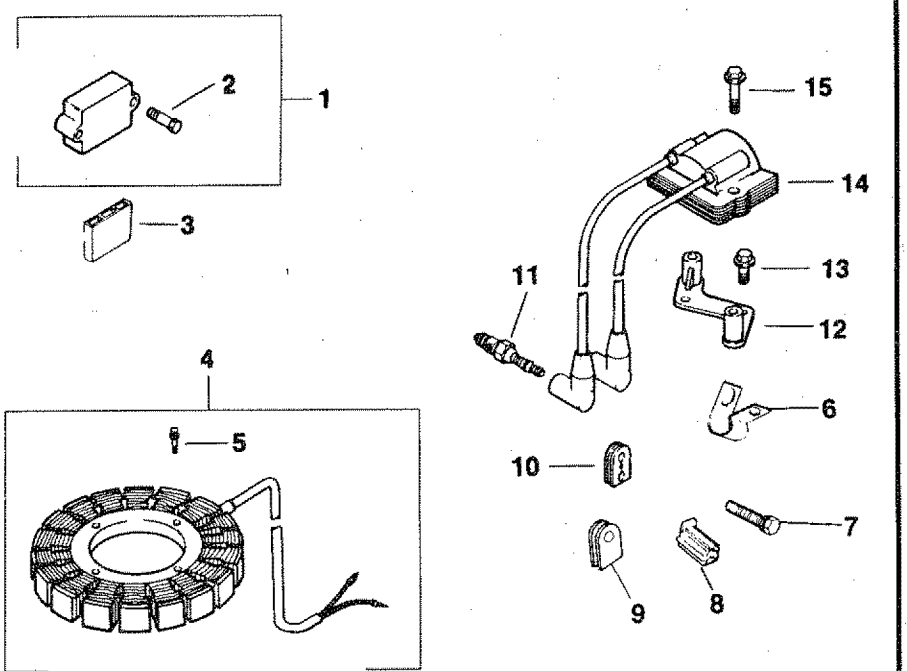
GOVERNOR



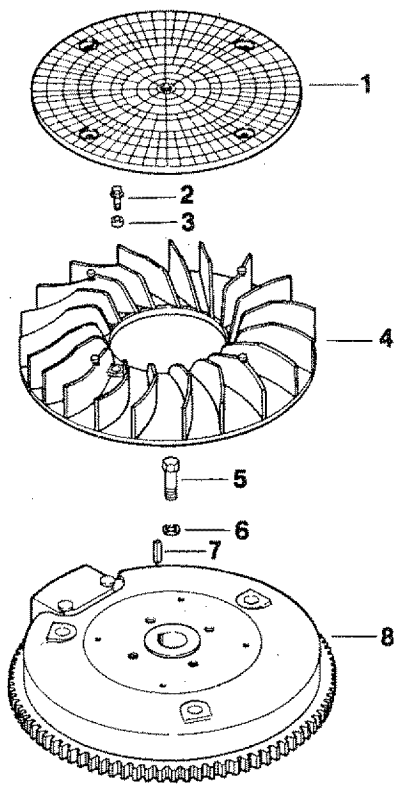
FUEL PUMP



IGNITION



FLYWHEEL



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

FLYWHEEL

KEY NO.	PART NO.	DESCRIPTION
1	25 162 01	Screen, Grass
2	25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8 (4)
3	25 112 04	Spacer (4)
4	25 157 01	Fan
5	25 086 24	Screw, Hex Machine 3/8-24 x 1-1/4
6	52 468 15	Washer, Plain
7	X-286-17	Key, Square 3/16 x 7/8
8	52 025 36	Flywheel

GOVERNOR

KEY NO.	PART NO.	DESCRIPTION
1	231355	Pin, Governor Stop
2	X-25-12	Washer, Plain 1/4
3	237022	Washer, Thrust
4	A-235743-S	Kit, Governor Gear
5	52 078 04	Shaft, Governor Cross
6	X-25-102	Washer, Plain 1/4 (2)
7	X-269-28	Retainer, Governor
8	X-25-72	Washer, Plain 1/4 (2)
9	52 090 23	Lever, Speed Control
10	277341	Washer, Tension
11	52 158 07	Bushing, Throttle Control Lever
12	25 086 15	Screw, Hex Washer Head 1/4-20 x 1
13	52 089 07	Spring, Governor
14	X-81-1	Nut, Hex 1/4-20
15	X-25-63	Washer, Plain 1/4
16	52 186 09	Arm, Governor
17	52 211 04	Screw, Round Head, Square Neck 1/4-20 x 1
18	25 141 03	Ring, Retaining (4)
19	25 158 08	Bushing, Linkage Retaining (4)
20	52 079 07	Linkage, Governor
21	52 079 06	Linkage, Throttle
22	52 090 14	Lever, Throttle
23	52 089 08	Spring, Torsion
24	25 086 21	Screw, Hex Washer Head 1/4-20 x 5/8
25	X-67-97	Screw, Hex Washer Head #10-24 x 3/8 (3)
26	235778	Clamp, Cable (3)
27	25 431 01	Bushing, Speed Control Lever
28	X-70-3	Nut, Hex #10-32
29	52 086 05	Screw, Hex Head #10-32 x 7/8

FUEL PUMP

KEY NO.	PART NO.	DESCRIPTION
1	47 086 08	Screw, Pozidriv, Truss Head 1/4-20 x 5/8 (2)
2	52 559 01	Pump, Fuel Assembly (Includes Key Numbers 3 thru 6)
3	X-380-1	Connector, Straight
4	X-25-63	Washer, Plain 1/4 (2)
5	25 041 09	Gasket, Fuel Pump
6	25 155 02	Connector, Hose
7	X-426-9	Clamp, Hose (4)
8	52 353 18	Line, Fuel, 8"
9	25 050 03	Filter, Fuel
10	15 353 04	Line, Fuel, 11-1/2"

IGNITION

KEY NO.	PART NO.	DESCRIPTION
1	25 755 03	Kit, Rectifier-Regulator (Includes Key Number 2)
2	X-132-5	Screw, Hex Cap 1/4-20 x 5/8 (2)
3	236602	Connector, 3 Contact
4	237878	Kit, Stator (Includes Key Number 5)
5	X-67-51	Screw, Hex Cap #10-24 x 3/4 (2)
6	210281	Clip (2)
7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16
8	41 155 03	Connector, 2 Contact
9	220297	Grommet, Rubber
10	52 313 02	Grommet
11	52 132 02	Spark Plug (2)
12	52 126 08	Bracket, Module
13	25 086 15	Screw, Hex Washer Head 1/4-20 x 1 (2)
14	52 584 02	Module, Ignition
15	25 086 16	Screw, Hex Washer Head 1/4-20 x 7/8 (2)

NOT ILLUSTRATED

- -	47 518 33	Lead, Violet, Rectifier-Regulator (11", 14 Gauge, Uninsulated Push On Tab Terminals)
- -	52 518 19	Lead, White, Module To Connector (19-1/2", 14 Gauge, Insulated Push On Tab, Uninsulated Push On Tab Terminals)

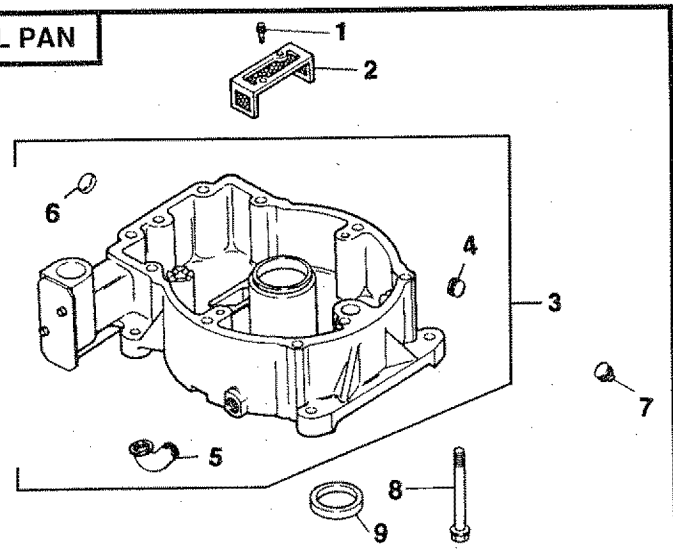
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

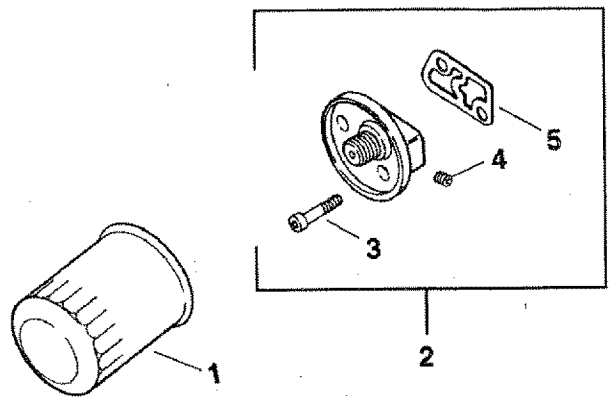
TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

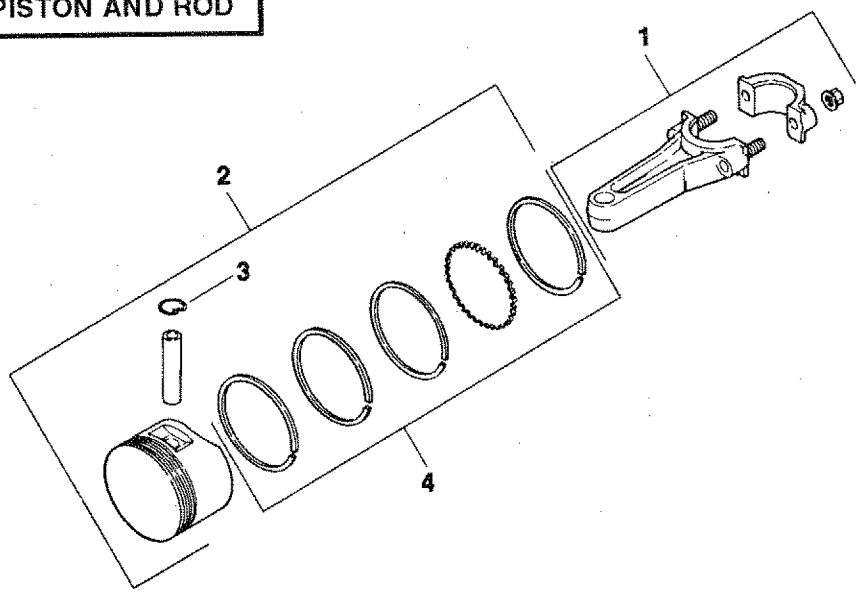
OIL PAN



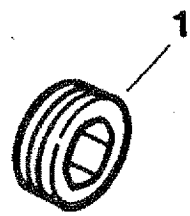
OIL FILTER



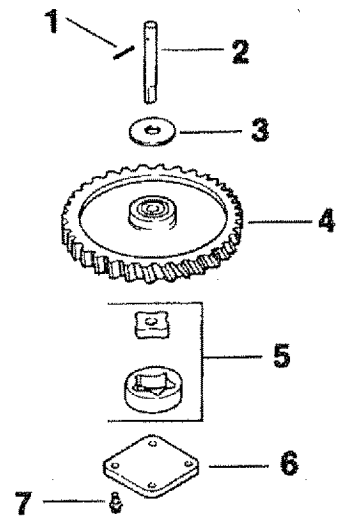
PISTON AND ROD



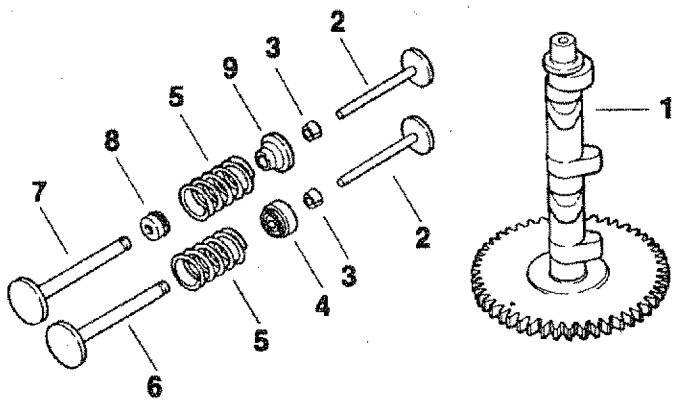
OIL SWITCH



OIL PUMP



CAMSHAFT AND VALVES



REPAIR PARTS

TRACTOR - - MODEL NUMBER 917.256701

KOHLER ENGINE - MODEL NUMBER MV18S, TYPE NUMBER PS58560

OIL PAN

KEY NO.	PART NO.	DESCRIPTION
1	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (2)
2	52 050 03	Filter, Oil Pickup
3	52 199 14	Oil Pan (Includes Key #4 thru 6)
4	X-702-14	Plug, Cup 1-1/16
5	52 054 07	Elbow, Street
6	X-75-38	Plug, Hex, Countersunk 1/4 N.P.T.F.
7	X-75-10	Plug, Square Head 3/8 N.P.T.F. (2)
8	52 086 12	Screw, Hex Washer Head 5/16-18 x 1-1/4 (9)
9	52 032 10	Seal, Oil, Rear

OIL FILTER

KEY NO.	PART NO.	DESCRIPTION
1	52 050 02	Oil Filter
2	82 755 23	Kit, Oil Filter Adaptor (Includes Key Numbers 3 thru 5)
3	X-55-15	Screw, Hex Socket Head 5/16-18 x 1-1/4 (2)
4	X-75-23	Plug, Hex, Countersunk 1/8 N.P.T.F.
5	52 041 16	Gasket, Oil Filter

PISTON & ROD

KEY NO.	PART NO.	DESCRIPTION
1	52 067 67	Connecting Rod, Standard (2)
	52 067 68	Connecting Rod .010" (2)
2	52 874 11	Piston with Ring Set, Standard (2)
	52 874 12	Piston with Ring Set .003" (2)
	52 874 13	Piston with Ring Set .010" (2)
	52 874 14	Piston with Ring Set .020" (2)
	52 874 15	Piston with Ring Set .030" (2)
3	230004	Retainer, Piston Pin (4)
4	52 108 09	Ring Set, Standard and .003" (2)
	52 108 10	Ring Set .010" (2)
	52 108 11	Ring Set .020" (2)
	52 108 12	Ring Set .030" (2)

LOW OIL PRESSURE SWITCH

KEY NO.	PART NO.	DESCRIPTION
1	X-75-23	Plug, Pipe 1/8 N.P.T.F.

CAMSHAFT & VALVES

KEY NO.	PART NO.	DESCRIPTION
1	52 012 09	* Camshaft
2	52 019 03	* Tappet (4)
3	41 755 10	Kit, Retainer (4)
4	52 413 01	Rotator, Exhaust Valve (2)
5	25 089 01	Spring, Valve (4)
6	52 016 05	Valve, Exhaust (2)
7	52 017 08	Valve, Intake (2)
8	52 032 13	Seal, Intake Valve Stem (2)
9	230011	Retainer, Intake Valve (2)
*	After serial no. 24082000 use:	
1	52 012 11	Camshaft
2	52 019 02	Tappet

OIL PUMP

KEY NO.	PART NO.	DESCRIPTION
1	X-280-25	Pin, Roll
2	52 144 05	Shaft, Oil Pump
3	52 422 01	Spacer, Shim (As Required, Maximum of 2)
4	52 043 05	Gear, Oil Pump
5	52 393 09	Rotor Set
6	52 096 03	Cover, Oil Pump
7	X-67-64	Screw, Hex Washer Head #10-32 x 7/16 (4)

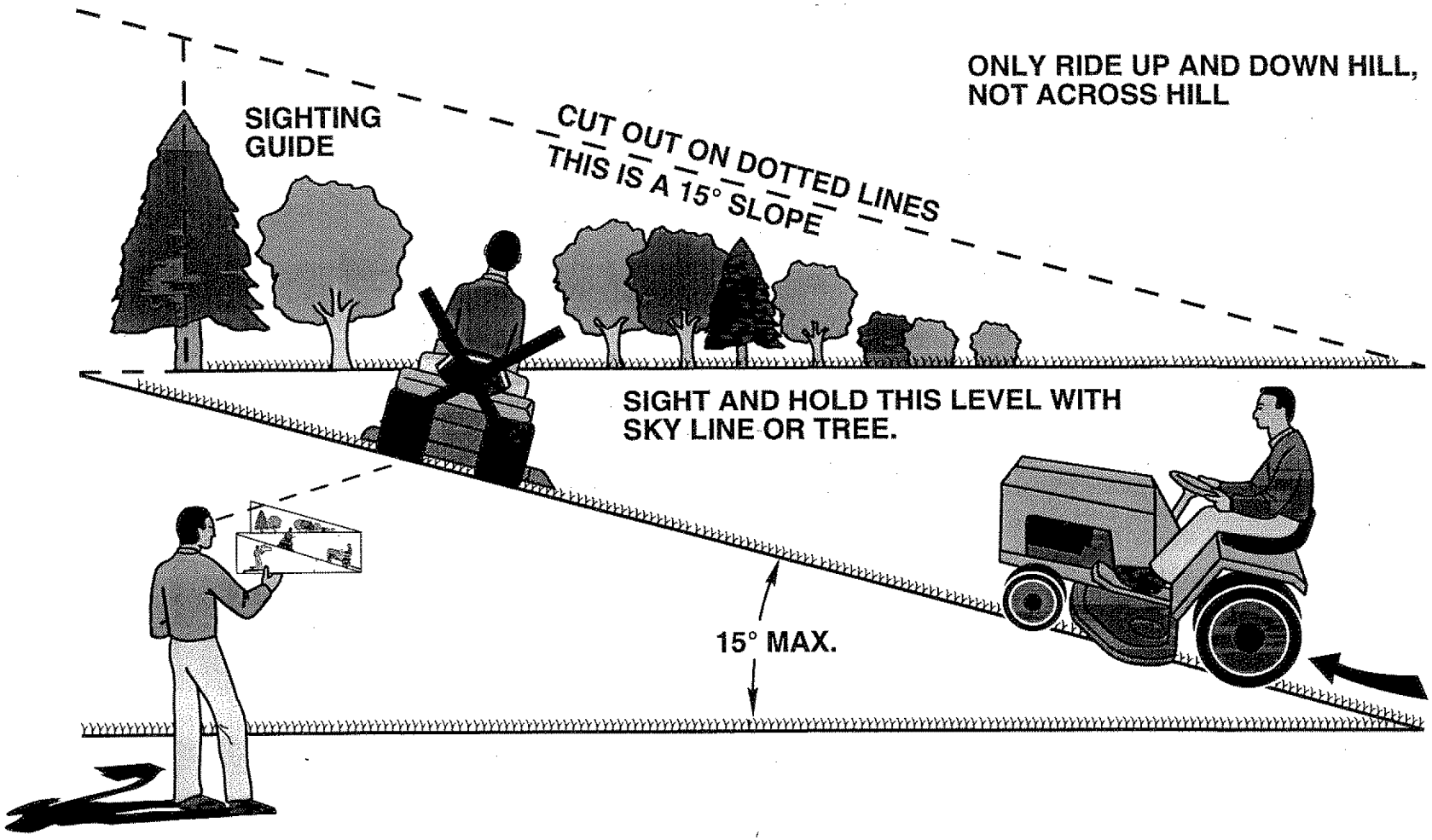
NOT ILLUSTRATED

- -	82 522 30	Short Block
- -	52 755 94	Gasket Set
	RPM Settings:	Low Speed: 1150-1650 High Speed: 3200-3400

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

SERVICE NOTES

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. 917.256701

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(1-800-473-7247)

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

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

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

1-800-659-5917

CRAFTSMAN®

18.0 HP ELECTRIC START 46" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

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

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

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

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

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- **PRODUCT - TRACTOR**
- **MODEL NUMBER - 917.256701**
- **ENGINE MODEL NO. - MV18S - PS58560**
- **PART NUMBER**
- **PART DESCRIPTION**

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153987 2.6.96 TR

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