

Owner's Manual

CRAFTSMAN®

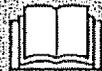
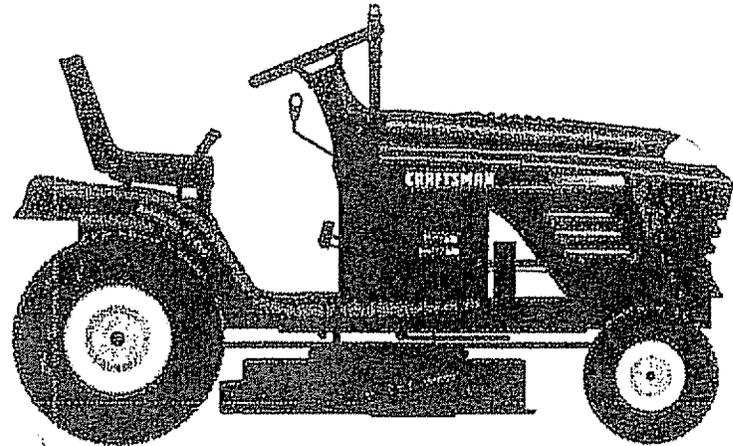
19.5 HP
ELECTRIC START
42" MOWER
AUTOMATIC

LAWN TRACTOR

EZ³

Model No.
917.270820

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts



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

CAUTION:

Read and follow all Safety Rules and Instructions before operating this equipment.

For answers to your questions about this product, Call:

1-800-659-5917

Sears Craftsman Help Line
5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179

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WARRANTY

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

SAFETY RULES

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.

SAFETY RULES

- 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.

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.

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.

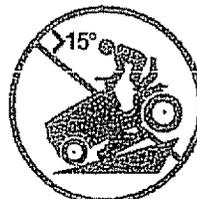
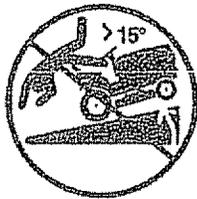
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere 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.

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.

SAFETY RULES

- 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.



- 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.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- 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.
- Mow up and down slopes (15° Max), 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.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.
- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

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

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

PRODUCT SPECIFICATIONS

| | |
|-----------------------------|---|
| GASOLINE CAPACITY AND TYPE: | 3.5 GALLONS UNLEADED REGULAR |
| OIL TYPE (API-SF/SG/SH): | SAE 30 (above 32°F) SAE 5W-30 (below 32°F) |
| OIL CAPACITY: | 3.0 PINTS |
| SPARK PLUG: (GAP: .030") | Champion RJ19LM OR J19LM |
| GROUND SPEED (MPH): | FORWARD: 0 - 5.5 REVERSE: 0 - 2.4 |
| TIRE PRESSURE: | FRONT: 14 PSI REAR: 10 PSI |
| CHARGING SYSTEM: | 3 AMPS BATTERY 5 AMPS HEADLIGHTS |
| BATTERY: | AMP/HR:30 MIN. CCA:240 CASE SIZE: U1R |
| BLADE BOLT TORQUE: | 27-35 FT. LBS. |

CONGRATULATIONS on your purchase of a Craftsman 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. 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".

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

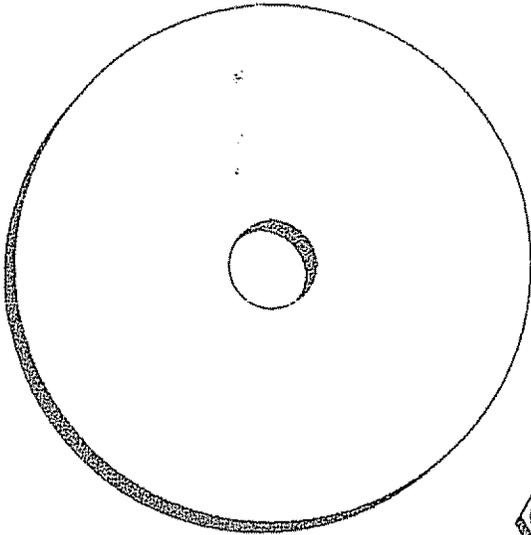
- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

⚠ 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.

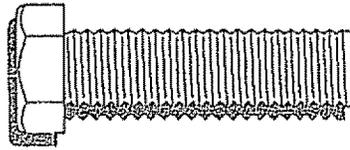
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS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

CONTENTS OF HARDWARE PACK

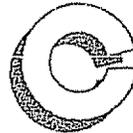
Parts Bag contents shown full size



(1) Large Flat Washer

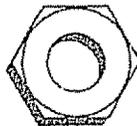
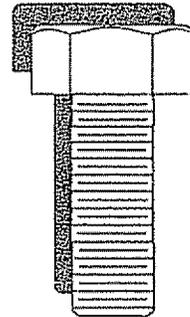


(1) Hex Bolt 5/16-18 x 1-1/4

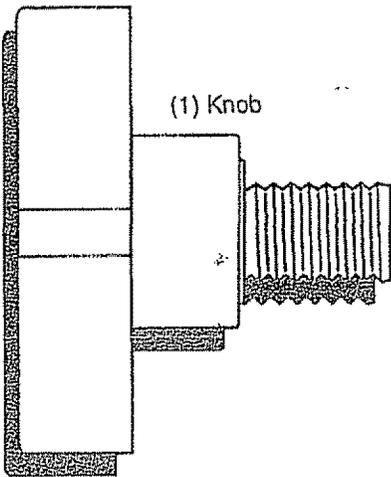


(1) Lockwasher 3/8

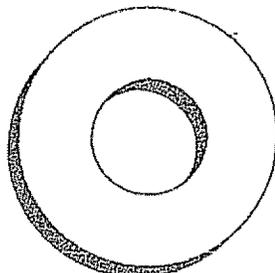
(1) Hex Bolt
3/8-16 x 1



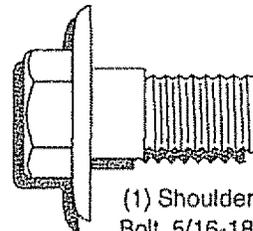
(1) Locknut 5/16-18



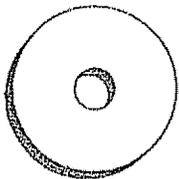
(1) Knob



(1) Washer
17/32 x 1-3/16 x 12 Gauge



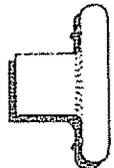
(1) Shoulder
Bolt 5/16-18



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



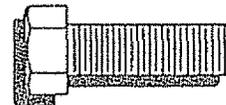
(2) Screws #10 x 5/8



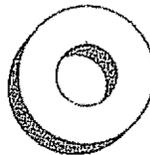
(2) Weld
Nuts #10



(2) Lock
Washers #10



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



(2) Washers
9/32 x 5/8 x 16 Gauge



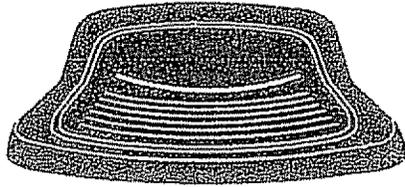
(2) Lock
Washers 1/4



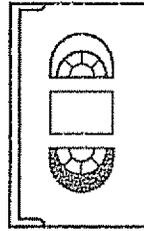
(2) Hex
Nuts
1/4-20

CONTENTS OF HARDWARE PACK

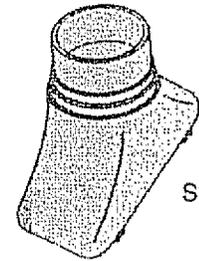
Parts packed separately in carton



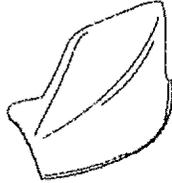
Seat



Video
Cassette



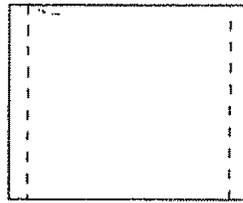
Steering
Boot



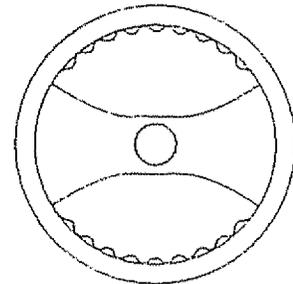
Mulcher
Plate



Manual

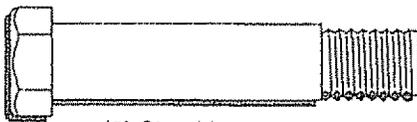


Parts Bag

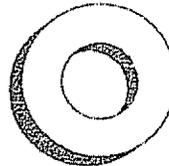


Steering
Wheel

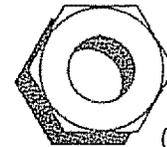
Parts Bag contents not shown full size



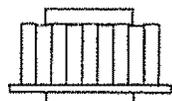
(2) Shoulder
Bolts



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



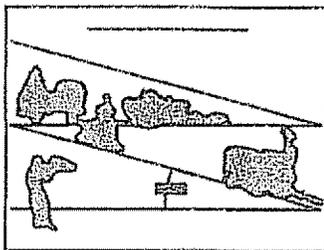
(2) Center-
lock Nuts



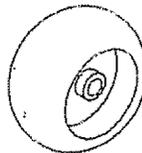
Steering Wheel Adapter



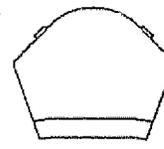
(2) Keys



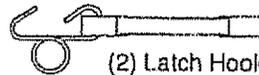
Slope Sheet



(2) Gauge
Wheels



Steering
Wheel Insert



(2) Latch Hook
Assemblies



Steering
Extension
Shaft

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. Review the video cassette before you begin.

TOOLS REQUIRED FOR ASSEMBLY

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

- | | |
|--------------------|----------------------------------|
| (1) 9/16" wrench | (1) 3/4" Socket w/ drive ratchet |
| (2) 7/16" wrenches | (1) Phillips Screwdriver |
| (2) 1/2" wrench | (1) Tire pressure gauge |
| (1) 3/4" wrench | |
| (1) Utility knife | |
| (1) Pliers | |

When right or left hand is mentioned in this manual, it means, from your point of view, 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 boxes from shipping carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
- Check for any additional loose parts or boxes and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs. torque.

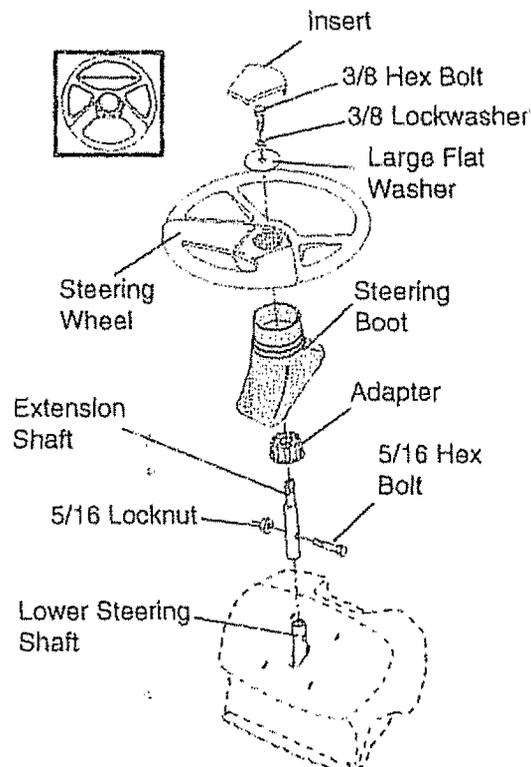
- Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.

- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials 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.



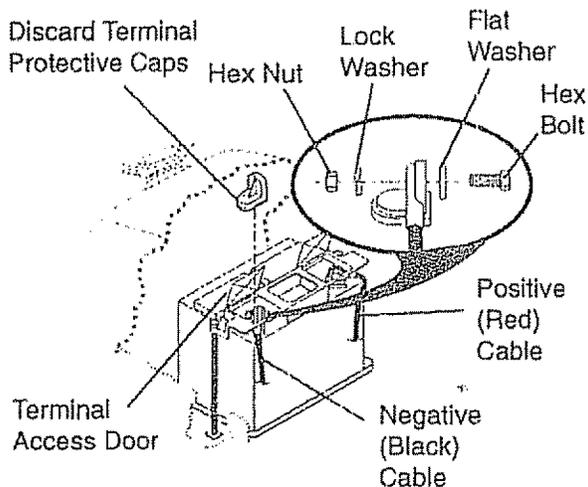
TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding discharge guard up against tractor.

HOW TO SET UP YOUR TRACTOR CONNECT BATTERY

⚠CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparking from accidental grounding.

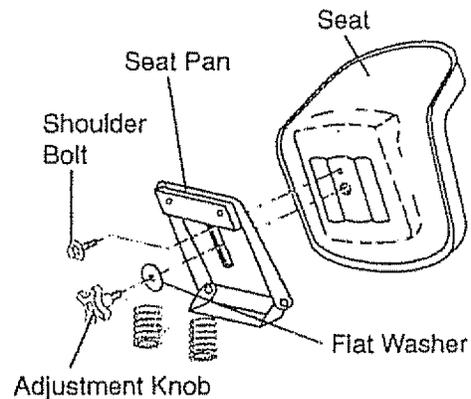
- Lift hood to raised position.
- Open terminal access doors, remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable 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



INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- 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.



INSTALL MULCHER PLATE

- 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.

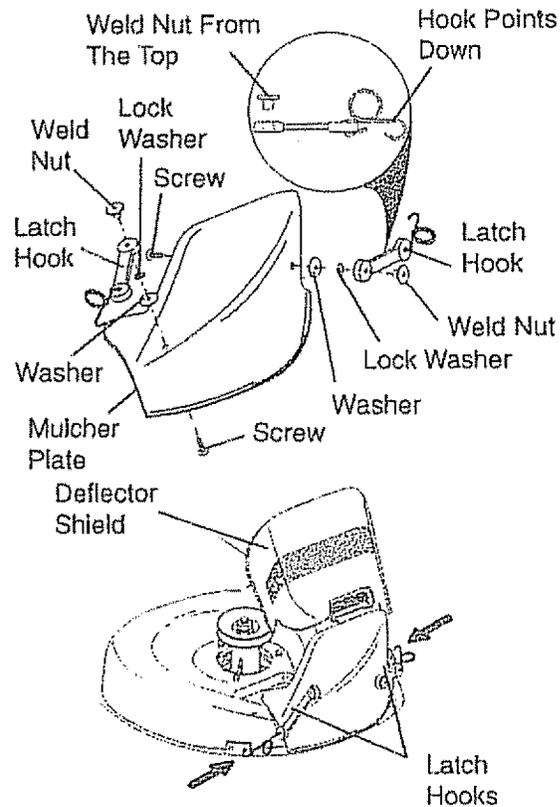
- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

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.

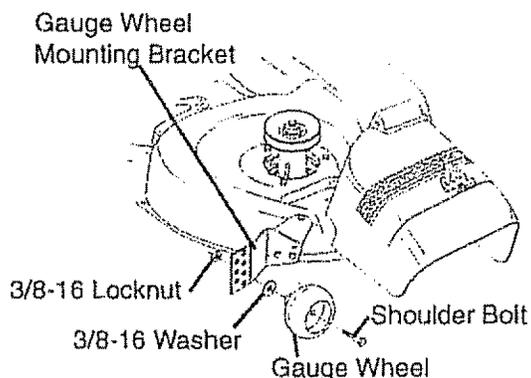
NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.



ASSEMBLE GAUGE WHEELS TO MOWER DECK

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

- Assemble 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.



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 5 of this manual.

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

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.

✓ CHECKLIST

PLEASE REVIEW THE FOLLOWING CHECKLIST:

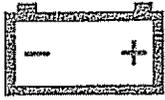
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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

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

OPERATION

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



BATTERY



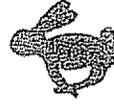
CAUTION OR WARNING



REVERSE



FORWARD



FAST



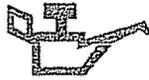
SLOW



ENGINE ON



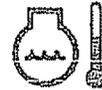
ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



MOWER LIFT



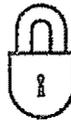
FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



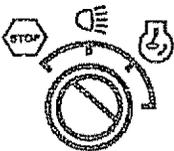
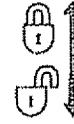
HIGH



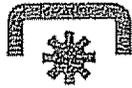
LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



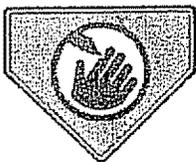
KEEP AREA CLEAR



(SEE SAFETY RULES SECTION)



SLOPE HAZARDS



DANGER, KEEP HANDS AND FEET AWAY

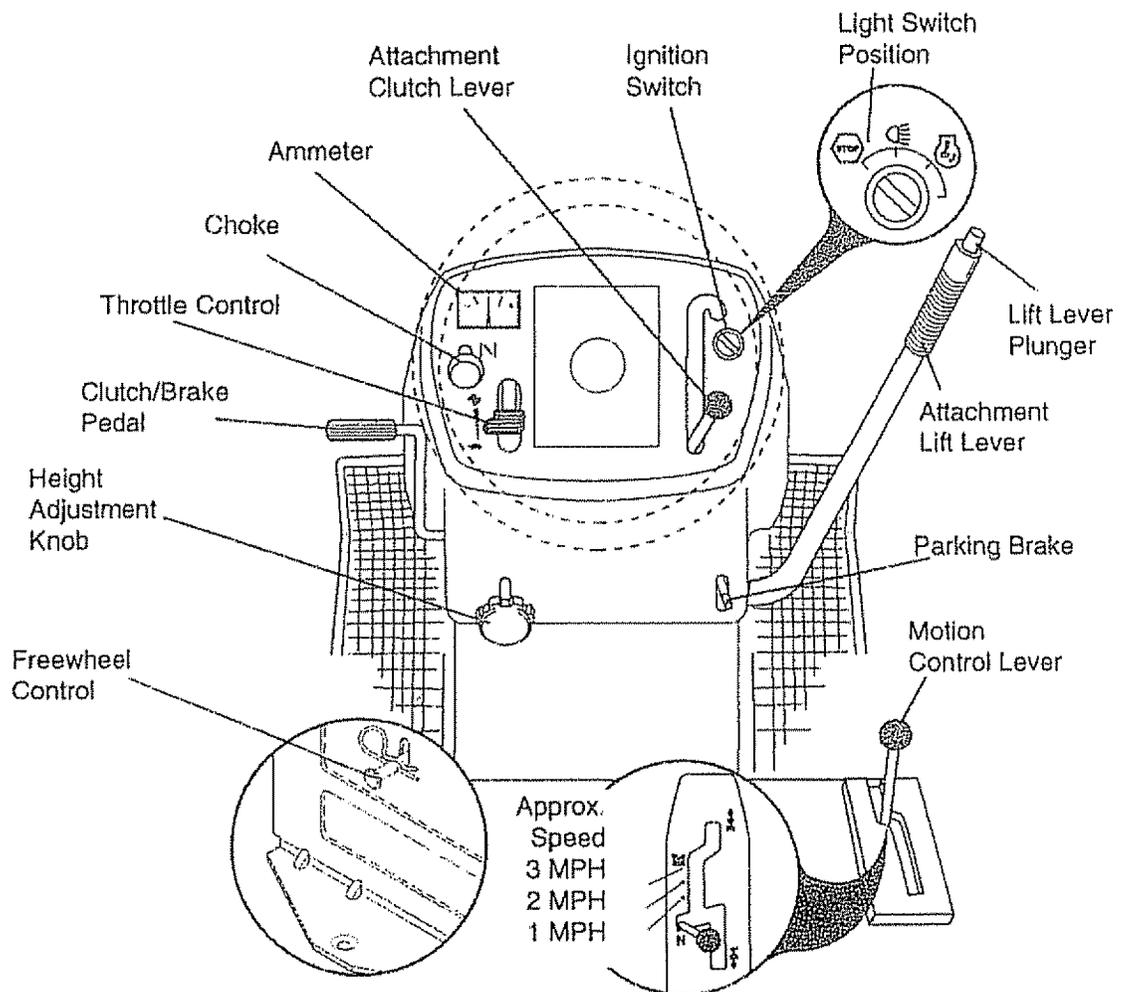


FREE WHEEL (Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

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

LIGHT SWITCH: Turns the headlights on and off.

CHOKE CONTROL: Used when starting a cold engine.

THROTTLE CONTROL: Used to control engine speed.

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

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

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

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

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

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

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



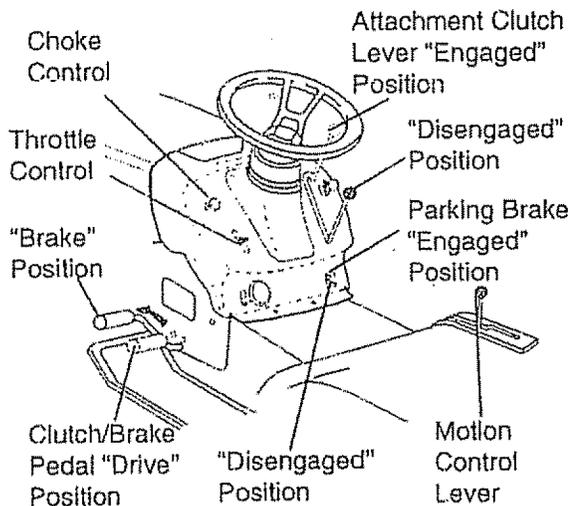
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over the spectacles, or standard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

HOW TO USE YOUR TRACTOR

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.

TO SET PARKING BRAKE

- 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.



STOPPING

MOWER BLADES -

- To stop mower blades, move attachment clutch lever to "DISENGAGED" position.

GROUND DRIVE -

- To stop ground drive, depress clutch/brake pedal into full "BRAKE" position.
- Move motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

ENGINE -

- Move throttle control to slow position.

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

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

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

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

THROTTLE CONTROL

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.

CHOKE CONTROL

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

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

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/brake pedal.
- Slowly move motion control lever to desired position.

NOTE: The effort to move the motion control lever will reduce after the first few hours of use. This is normal.

TO ADJUST MOWER CUTTING HEIGHT

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

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

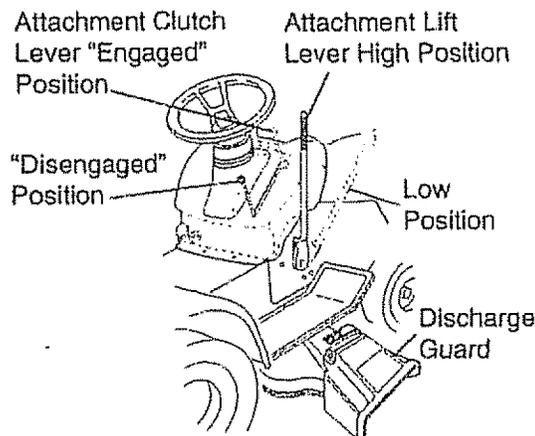
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO OPERATE MOWER

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.



TO OPERATE ON HILLS

CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. Use the slope guide provided at the back of this manual.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push

clutch/brake pedal quickly to brake position and engage parking brake.

- Move motion control lever to neutral (N) position.

IMPORTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

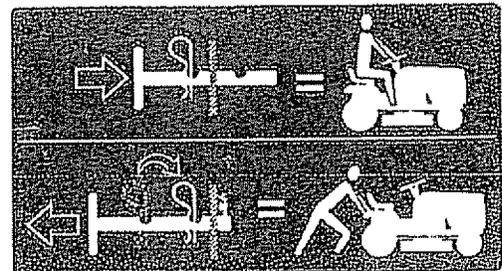
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control knob out and hold in position by inserting retainer spring into forward hole of control rod.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

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



TOWING CARTS AND OTHER ATTACHMENTS

Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

- 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 screw cap tight, 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 Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

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

IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

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

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

TO START ENGINE

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

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.

- Place motion control lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

- Insert key into Ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F AND ABOVE)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F AND BELOW)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

AUTOMATIC TRANSMISSION WARM-UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.

- Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
- Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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

PURGE TRANSMISSION

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

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

IMPORTANT: Should your transmission require removal for service or replacement, it should be purged after reinstallation before operating the tractor.

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

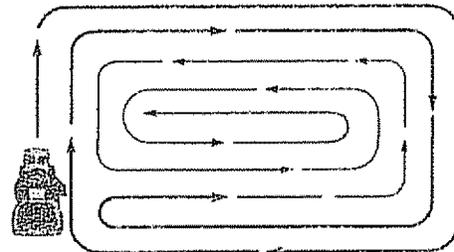
NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shut off engine and set parking brake.

- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.
- Slowly move motion control lever forward; after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and ready for normal operation.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.



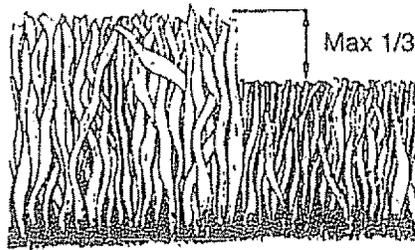
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice to reduce load and possible 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 the best 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. For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

MAINTENANCE

CUSTOMER RESPONSIBILITIES

| MAINTENANCE SCHEDULE | | SERVICE INTERVALS | | | | | | | SERVICE DATES | | | | |
|------------------------------------|---|------------------------|---------------|--------------------|----------------|------------------|--------------|----------------|---------------|--|--|--|--|
| | | BEFORE EACH USE | EVERY 8 HOURS | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY SEASON | BEFORE STORAGE | | | | | |
| TRACTOR | Check Brake Operation | ✓ | ✓ | | | | | | | | | | |
| | Check Tire Pressure | ✓ | ✓ | | | | | | | | | | |
| | Check Operator Presence and Interlock Systems | ✓ | | | | | | | | | | | |
| | Check for Loose Fasteners | ✓ | | | | ✓ ⁷ | | ✓ | | | | | |
| | Sharpen/Replace Mower Blades | | | ✓ ⁴ | | | | | | | | | |
| | Lubrication Chart | | | ✓ | | | | ✓ | | | | | |
| | Check Battery Level | | | ✓ ⁶ | | | | | | | | | |
| | Clean Battery and Terminals/Recharge | | | ✓ | | | | ✓ | | | | | |
| | 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 belt to 35 lb. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

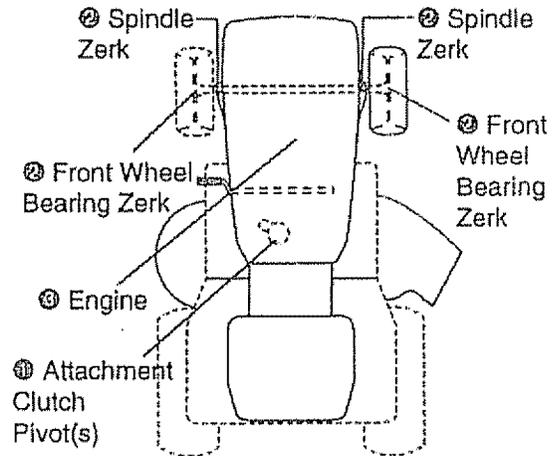
The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor. All adjustments 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 operator presence and interlock systems for proper operation.
- Check for loose fasteners.

LUBRICATION CHART



- ① SAE 30 or 10w30 Motor OIL
- ② General Purpose Grease
- ③ Refer to Maintenance "Engine" Section

IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 5 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.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.

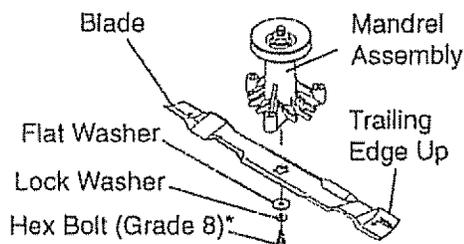
BLADE CARE

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

BLADE REMOVAL

- 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.



*A Grade 8 heat treated bolt can be identified by six lines on the bolt head.

TO SHARPEN BLADE

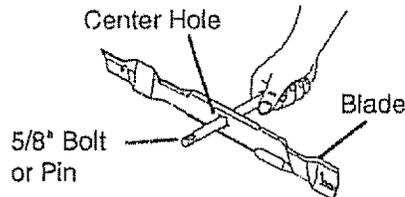
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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 it is 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).

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

- Slide blade onto 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.



BATTERY

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

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

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS

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

- Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.

- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "CONNECT BATTERY" in the Assembly section of this manual).

V-BELTS

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

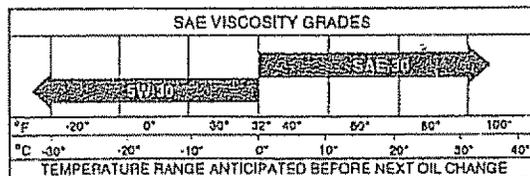
TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center.

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF, SG or SH. 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

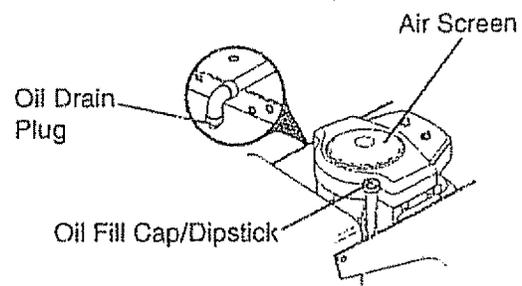
used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

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

- 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 cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



CLEAN AIR SCREEN

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

AIR FILTER

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

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.

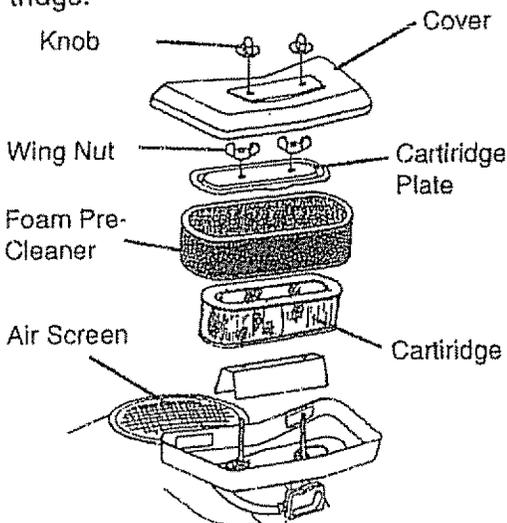
TO SERVICE PRE-CLEANER

- 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.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

TO SERVICE CARTRIDGE

- Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge plate, wing nuts, pre-cleaner, cover and secure with knob(s).

Important: Petroleum solvents, such as kerosene, are not to be used to clean the cartridge. They may cause deterioration of the cartridge. Do not oil cartridge. Do not use pressurized air to clean or dry cartridge.



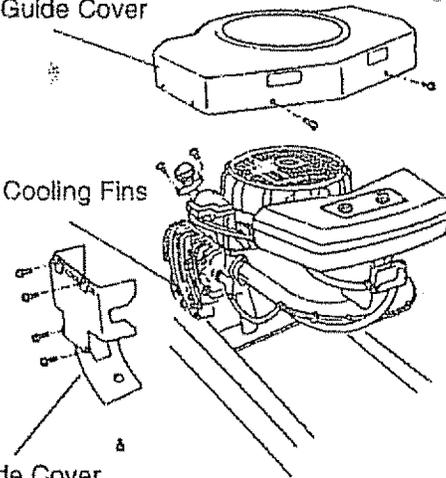
ENGINE COOLING FINS

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

Top Air Guide Cover

Engine Cooling Fins

Air Guide Cover
(Both Sides)



MUFFLER

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

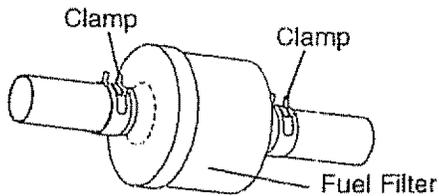
SPARK PLUGS

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 5 of this manual.

IN-LINE FUEL FILTER

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.



- 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.

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.

SERVICE AND ADJUSTMENTS

CAUTION: Before performing any service or adjustments:

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

TO REMOVE MOWER

Mower will be easier to remove from the right side of tractor.

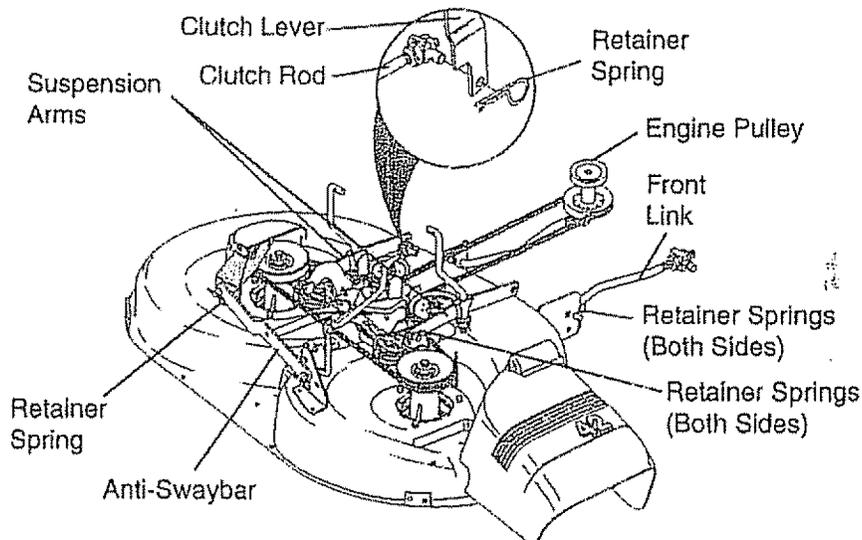
- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.

- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

TO INSTALL MOWER

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.



TO LEVEL MOWER HOUSING

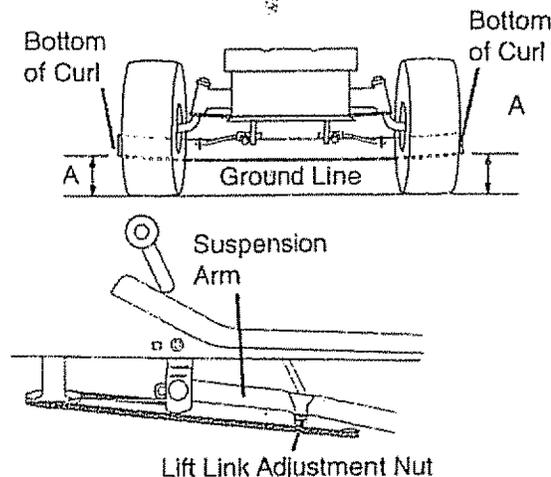
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- 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.



FRONT-TO-BACK ADJUSTMENT

IMPORTANT: Deck must be level side-to-side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

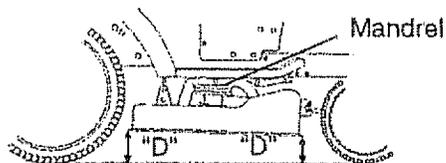
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

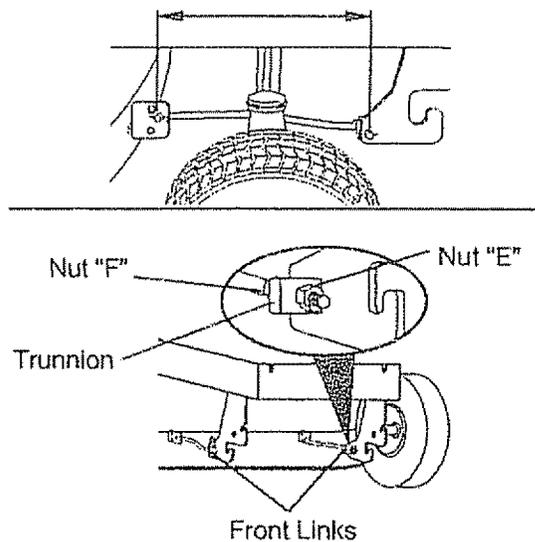
- Before making any necessary adjust-

ments, check that both front links are equal in length. Both links should be approximately 10-3/8".

- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.



Both Front Links Should be Equal in Length



TO REPLACE MOWER BLADE DRIVE BELT (See Illustration Next Page)

The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

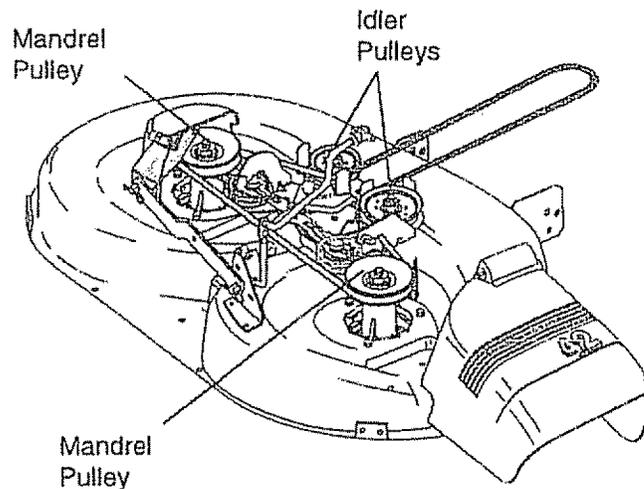
BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.

- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.



TO ADJUST BRAKE

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

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

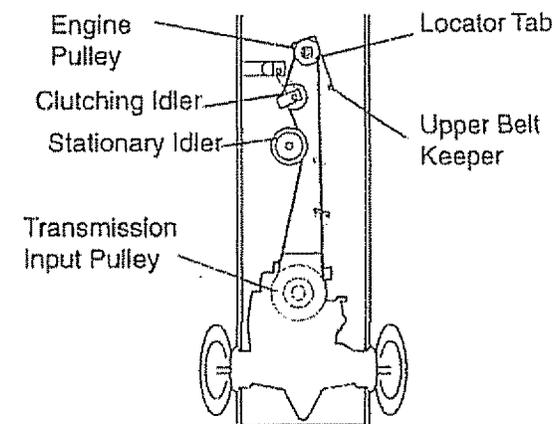
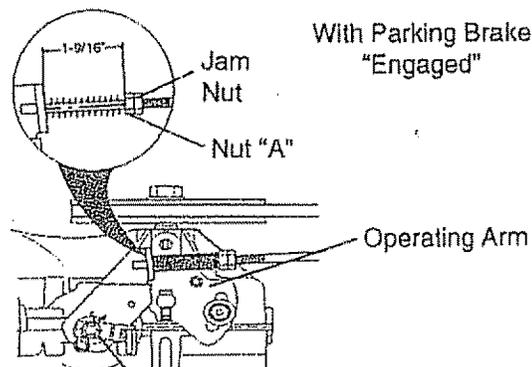
- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Road test tractor for proper stopping 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.

TO REPLACE MOTION DRIVE BELT

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove upper belt keeper.
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Pull belt toward front of tractor and remove downward from around engine pulley.
- Install new belt by reversing above procedure.

IMPORTANT: Make sure upper belt keeper is positioned properly between locator tab.



Do Not touch this nut. If further brake adjustment is necessary contact your nearest authorized service center/department

TO ADJUST MOTION CONTROL LEVER

The motion control lever has been preset at the factory and adjustment should not be necessary.

If for any reason the motion control lever will not hold its position while at a selected speed, it may be adjusted at the friction pack located on the right side of transmission.

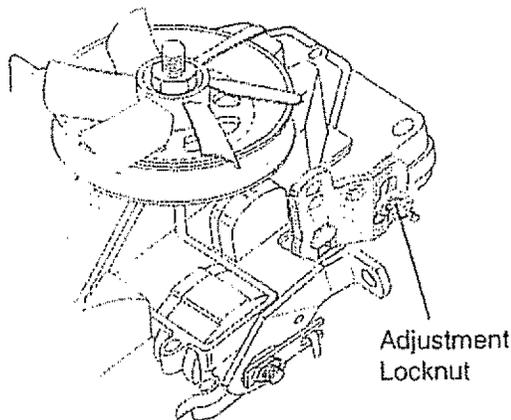
- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position, and engage parking brake.
- Adjust motion control lever by tightening adjustment locknut one half (1/2) turn.

NOTE: If for any reason the effort to move the motion control lever becomes too excessive, reverse the above adjustment procedure by loosening locknut 1/4 to 1/2 turn.

Road test tractor after adjustment and repeat procedure if necessary.

TRANSMISSION REMOVAL/REPLACEMENT

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



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.

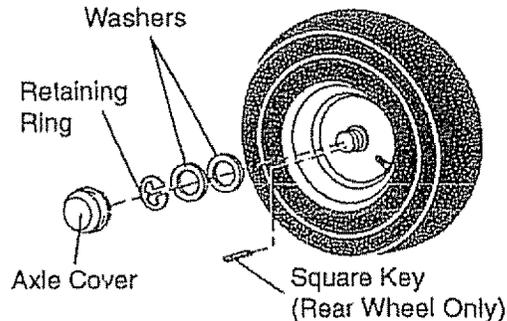
FRONT WHEEL TOE-IN/CAMBER

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.

TO REMOVE WHEEL FOR REPAIRS

- 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.

NOTE: To seal tire punctures and prevent flat tires due to slow leaks, tire sealant may be purchased from your local parts dealer. Tire sealant also prevents tire dry rot and corrosion.



TO START ENGINE THAT HAS A WEAK BATTERY

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:

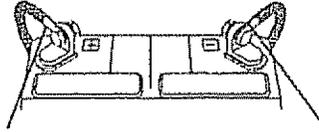
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

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.

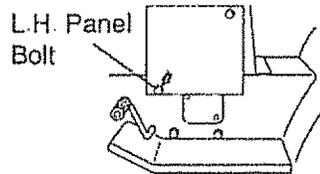
TO REMOVE CABLES, REVERSE ORDER

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



"Positive" (+)

"Negative" (-)



L.H. Panel Bolt

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.

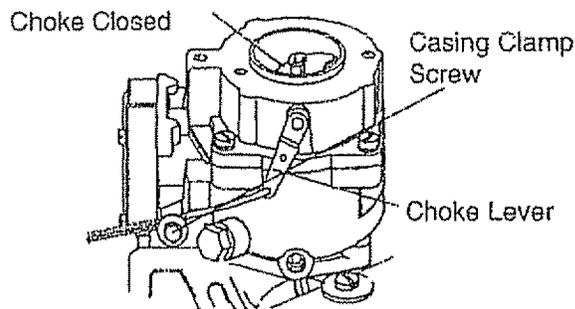
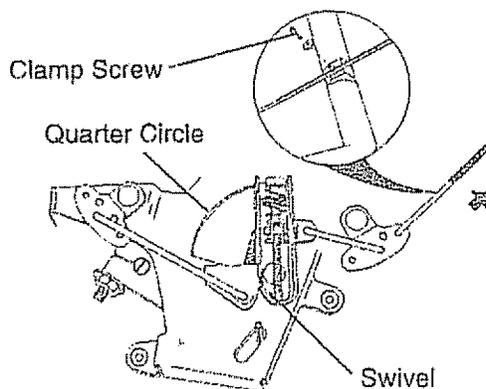
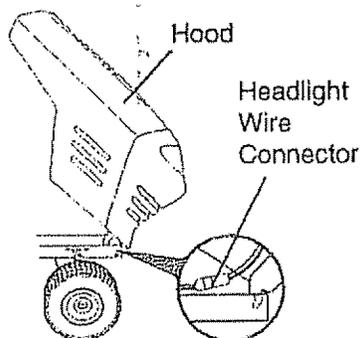
- Check wiring. See electrical wiring diagram in the Repair Parts section of this manual.

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

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



ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

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 swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL

The choke 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 choke control (located on dash panel) to full choke position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

TO ADJUST CARBURETOR

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

In general, turning the mixture screw **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw **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 and choke are adjusted properly (see above).
- With engine off turn idle mixture screw **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 to 1-1/2 turns.

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 slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.

- While still holding throttle lever against idle speed screw, turn idle mixture screw **in** (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

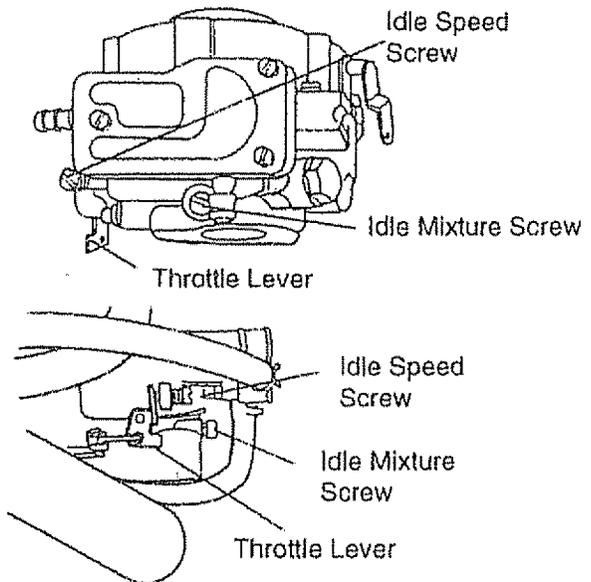
ACCELERATION TEST

- 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.



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. This will allow you to clean it thoroughly. Remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Maintenance 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 Maintenance 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 Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- 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 Maintenance section of this manual).

CYLINDER(S)

- 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 it 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 cause your tractor to rust.

IMPORTANT: Never cover tractor while engine and exhaust areas are still warm.

TROUBLESHOOTING CHART

| PROBLEM | CAUSE | CORRECTION |
|----------------------------------|---|--|
| Will not start | <ul style="list-style-type: none"> • Out of fuel. • Engine not "CHOKED" properly. • Engine flooded. • Bad spark plug. • Dirty air filter. • Dirty fuel filter. • Water in fuel. • Loose or damaged wiring. • Carburetor out of adjustment. • Engine valves out of adjustment. | <ul style="list-style-type: none"> • Fill fuel tank. • See "TO START ENGINE" in Operation section. • Wait several minutes before attempting to start. • Replace spark plug. • Clean/replace air filter. • Replace fuel filter. • Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. • Check all wiring. • See "To Adjust Carburetor" in Service and Adjustments section. • Contact an authorized service center. |
| Hard to start | <ul style="list-style-type: none"> • Dirty air filter. • Bad spark plug. • Weak or dead battery. • Dirty fuel filter. • Stale or dirty fuel. • Loose or damaged wiring. • Carburetor out of adjustment. • Engine valves out of adjustment. | <ul style="list-style-type: none"> • Clean/replace air filter. • Replace spark plug. • Recharge or replace battery. • Replace fuel filter. • Drain fuel tank and refill with fresh gasoline. • Check all wiring. • See "To Adjust Carburetor" in Service and Adjustments section. • Contact an authorized service center. |
| Engine will not turn over | <ul style="list-style-type: none"> • Clutch/brake pedal not depressed. • Attachment clutch is engaged. • Weak or dead battery. • Blown fuse. • Corroded battery terminals. • Loose or damaged wiring. • Faulty ignition switch. • Faulty solenoid or starter. • Faulty operator presence switch(es). | <ul style="list-style-type: none"> • Depress clutch/brake pedal. • Disengage attachment clutch. • Recharge or replace battery. • Replace fuse. • Clean battery terminals. • Check all wiring. • Check/replace ignition switch. • Check/replace solenoid or starter. • Contact an authorized service center. |
| Engine clicks but will not start | <ul style="list-style-type: none"> • Weak or dead battery. • Corroded battery terminals. • Loose or damaged wiring. • Faulty solenoid or starter. | <ul style="list-style-type: none"> • Recharge or replace battery. • Clean battery terminals. • Check all wiring. • Check/replace solenoid or starter. |
| Loss of power | <ul style="list-style-type: none"> • Cutting too much grass/too fast. • Throttle in "CHOKE" position. | <ul style="list-style-type: none"> • Set in "Higher Cut" position/reduce speed. • Adjust throttle control. |

TROUBLESHOOTING CHART

| PROBLEM | CAUSE | CORRECTION |
|--|---|--|
| Loss of power (cont'd) | <ul style="list-style-type: none"> • Build-up of grass, leaves and trash under mower. • Dirty air filter. • Low oil level/dirty oil. • Faulty spark plug. • Dirty fuel filter. • Stale or dirty fuel. • Water in fuel. • Spark plug wire loose. • Dirty engine air screen/fins. • Dirty/clogged muffler. • Loose or damaged wiring. • Carburetor out of adjustment. • Engine valves out of adjustment. | <ul style="list-style-type: none"> • Clean underside of mower housing. • Clean/replace air filter. • Check oil level/change oil. • Clean and regap or change spark plug. • Replace fuel filter. • Drain fuel tank and refill with fresh gasoline. • Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. • Connect and tighten spark plug wire. • Clean engine air screen/fins. • Clean/replace muffler. • Check all wiring. • See "To Adjust Carburetor" in Service and Adjustments section. • Contact an authorized service center. |
| Excessive vibration | <ul style="list-style-type: none"> • Worn, bent or loose blade. • Bent blade mandrel. • Loose/damaged part(s). | <ul style="list-style-type: none"> • Replace blade. Tighten blade bolt. • Replace blade mandrel. • Tighten loose part(s). Replace damaged parts. |
| Engine continues to run when operator leaves seat with attachment clutch engaged | <ul style="list-style-type: none"> • Faulty operator-safety presence control system. | <ul style="list-style-type: none"> • Check wiring, switches and connections. If not corrected, contact an authorized service center/department. |
| Poor cut - uneven | <ul style="list-style-type: none"> • Worn, bent or loose blade. • Mower deck not level. • Buildup of grass, leaves, and trash under mower. • Bent blade mandrel. • Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | <ul style="list-style-type: none"> • Replace blade. Tighten blade bolt. • Level mower deck. • Clean underside of mower housing. • Replace blade mandrel. • Clean around mandrels to open vent holes. |
| Mower blades will not rotate | <ul style="list-style-type: none"> • Obstruction in clutch mechanism. • Worn/damaged mower drive belt. • Frozen idler pulley. • Frozen blade mandrel. | <ul style="list-style-type: none"> • Remove obstruction. • Replace mower drive belt. • Replace idler pulley. • Replace blade mandrel. |
| Poor grass discharge | <ul style="list-style-type: none"> • Engine speed too slow. • Travel speed too fast. • Wet grass. | <ul style="list-style-type: none"> • Place throttle control in "FAST" position. • Shift to slower speed. • Allow grass to dry before mowing. |

TROUBLESHOOTING CHART

| PROBLEM | CAUSE | CORRECTION |
|--|--|---|
| Poor grass discharge (cont'd) | <ul style="list-style-type: none"> • Mower deck not level. • Low/uneven tire air pressure. • Worn, bent or loose blade. • Buildup of grass, leaves and trash under mower. • Mower drive belt worn. • Blades improperly installed. • Improper blades used • Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | <ul style="list-style-type: none"> • Level mower deck. • Check tires for proper air pressure. • Replace/sharpen blade. Tighten blade bolt. • Clean underside of mower housing. • Replace mower drive belt. • Reinstall blades sharp edge down. • Replace with blades listed in this manual. • Clean around mandrels to open vent holes. |
| Headlight(s) not working (if so equipped) | <ul style="list-style-type: none"> • Switch is "OFF". • Bulb(s) burned out • Faulty light switch. • Loose or damaged wiring. • Blown fuse. | <ul style="list-style-type: none"> • Turn switch "ON". • Replace bulb(s). • Check/replace light switch. • Check wiring and connections. • Replace fuse. |
| Battery will not charge | <ul style="list-style-type: none"> • Bad battery cell(s). • Poor cable connections. • Faulty regulator (if so equipped). • Faulty alternator. | <ul style="list-style-type: none"> • Replace battery. • Check/clean all connections • Replace regulator. • Replace alternator. |
| Loss of drive | <ul style="list-style-type: none"> • Freewheel control in "disengaged" position. • Motion drive belt worn, damaged or broken. • Air trapped in transmission during shipment or servicing. | <ul style="list-style-type: none"> • Place freewheel control in "engaged" position. • Replace motion drive belt. • Purge transmission. |
| Engine "backfires" when turning engine "OFF" | <ul style="list-style-type: none"> • Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. | <ul style="list-style-type: none"> • Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. |

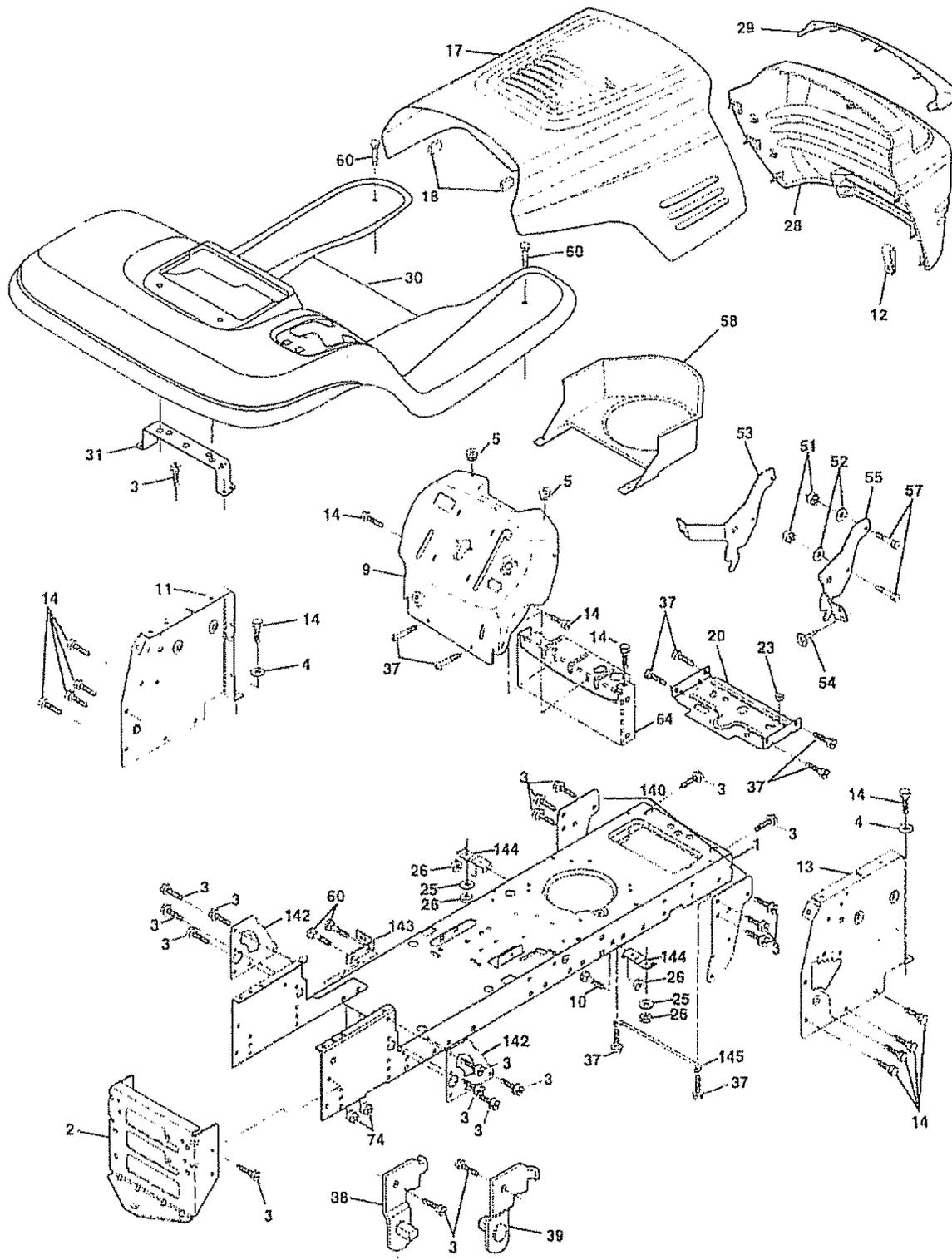
TRACTOR - - MODEL NUMBER 917.270820

ELECTRICAL

| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-----------------------------------|
| 1 | 163465 | Battery |
| 2 | 74760412 | Bolt, Hex 1/4-20 x 3/4 |
| 3 | STD551025 | Washer 9/32 x 5/8 x 16 Gauge |
| 4 | STD551125 | Washer, Lock 1/4 |
| 6 | STD541025 | Nut, Hex 1/4-20 |
| 8 | 7603J | Tray, Battery |
| 10 | 145211 | Bolt, Btr Front 1/4-20 x 7-1/2 |
| 11 | 150109 | Holddown Battery Front Mount |
| 12 | 145769 | Nut, Push Nylon Battery Front 1/4 |
| 16 | 153664 | Switch Interlock Push-In |
| 19 | STD551125 | Washer, Lock 1/4 |
| 20 | 73350400 | Nut, Hex, Jam 1/4-20 |
| 21 | 147430 | Harness, Light Socket (w/4152J) |
| 22 | 4152J | Light Bulb |
| 24 | 4799J | Cable, Battery |
| 25 | 146148 | Cable, Battery |
| 26 | 108824X | Fuse |
| 28 | 145491 | Cable, Ground |
| 29 | 121305X | Switch, Seat |
| 30 | 140301 | Switch, Ignition 4 Position |
| 31 | 124211X | Nut, Ignition |
| 32 | 141226 | Cover, Ignition Switch |
| 33 | 109310X | Key, Molded, Craftsman |
| 40 | 156442 | 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 | 121433X | Ammeter Rectangular 6 Amp |
| 52 | 141940 | Protection Wire Loop (Hour Meter) |
| 55 | 17490508 | Screw Thdrol 5/16-18 x 1/2 |
| 70 | 140413 | Harness Engine B&S/Tec Dual |

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

TRACTOR - - MODEL NUMBER 917.270820
CHASSIS AND ENCLOSURES



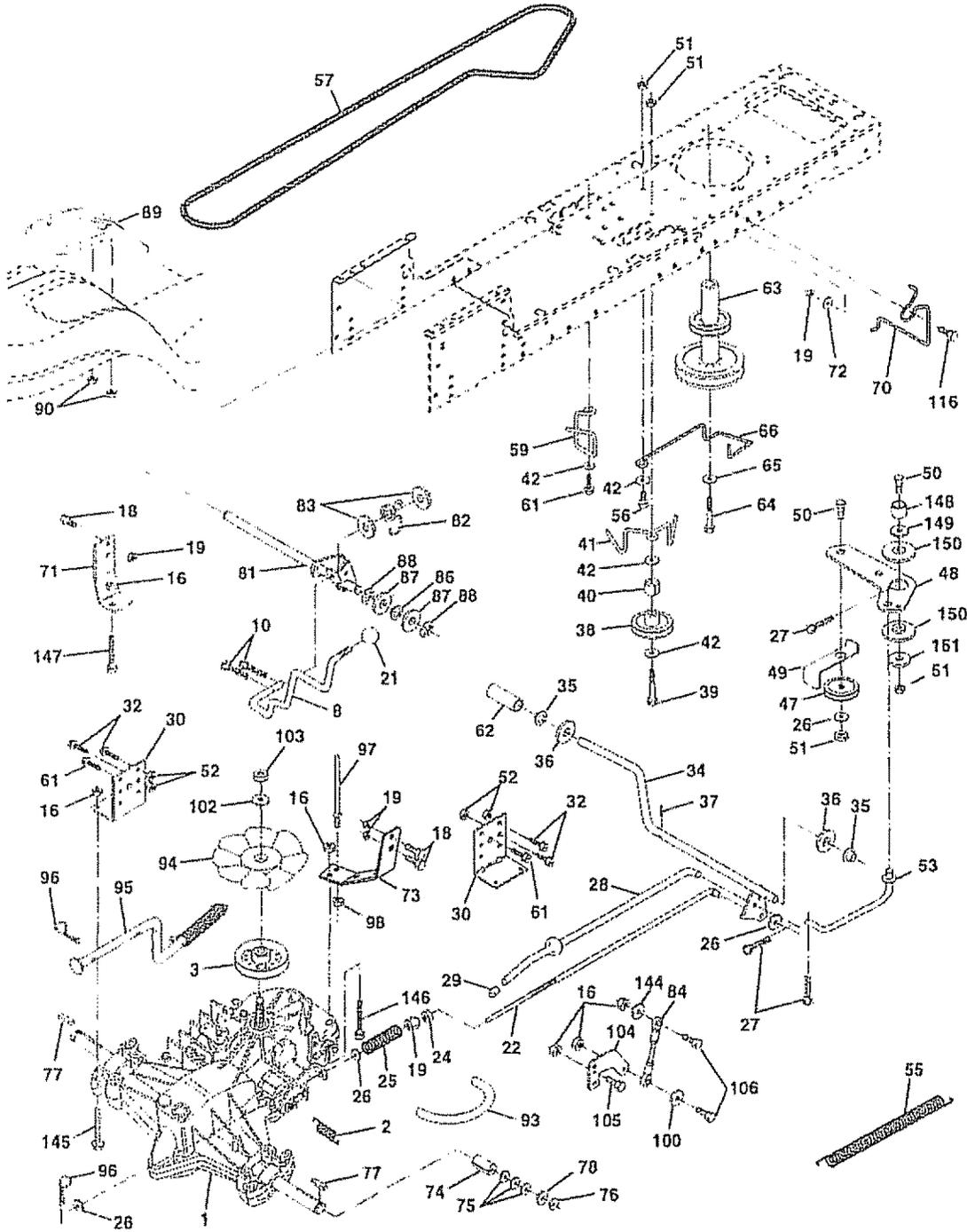
TRACTOR - - MODEL NUMBER 917.270820
CHASSIS AND ENCLOSURES

| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|---|
| 1 | 160392 | Chassis |
| 2 | 140356 | Drawbar |
| 3 | 17490612 | Screw, Thd., Roll. 3/8-16 x 3/4 Type TT |
| 4 | STD551025 | Washer 13/32 x 3/4 x 16 Gauge |
| 5 | 155272 | Bumper Hood/Dash |
| 9 | 161917X013 | Dash, Silkscreened |
| 10 | STD533710 | Bolt, Carriage 3/8-16 x 1 |
| 11 | 155927 | Panel, Dash, LH |
| 12 | 145660 | Clip Tinnerman Grille P/L |
| 13 | 155936 | Panel, Dash, RH |
| 14 | 17490608 | Screw, Thd., Roll 3/8-16 x 1/2 Type TT |
| 17 | 144983X558 | Hood Assembly |
| 18 | 126938X | Bumper Hood |
| 20 | 156437 | Plate Mtg Battery Fuel Tank |
| 23 | 124028X | Bushing, Snap, Nylon, Fuel Line |
| 25 | 19131312 | Washer 13/32 x 13/16 x 12 Gauge |
| 26 | STD541437 | Locknut, Hex, with Insert 3/8-16 UNC |
| 28 | 145198X558 | Grille, W/Clips MS-558 |
| 29 | 155217 | Lens, Grille |
| 30 | 151287X558 | Fender/Footrest |
| 31 | 139976 | Bracket, Fender/Support |
| 37 | 17490508 | Screw, Thdrol. 5/16-18 x 1/2 TYT |
| 38 | 139886 | Pivot Bracket Assembly, LH, Mower, Rear |
| 39 | 139887 | Pivot Bracket Assembly, RH, Mower, Rear |
| 51 | 73800400 | Nut Lock W/Insert 1/4 - 20 UNC |
| 52 | 19091416 | Washer 9/32 X 7/8 X 16 Ga. |
| 53 | 145201 | Bracket Grille Pickoff LH |
| 54 | 161464 | Screw, Hex Wshd #8-18 x 7/8 |
| 55 | 145202 | Bracket Grille Pickoff RH |
| 57 | STD552507 | Bolt FinHex 1/4 -20 UNC X.75 |
| 58 | 140547 | Air Duct P/L 18HP B&S Opp. Twin |
| 60 | 72140606 | Bolt Rdhd Sqnk 3/8-16 UNC x 3/4 |
| 64 | 154798 | Dash Lower STLT |
| 74 | STD541437 | Nut Crownlock 3/8-16 UNC |
| 140 | 158418 | Bracket Suspension Front |
| 142 | 156095 | Plate Reinforcement STLT |
| 143 | 154966 | Bracket Swaybar Chassis |
| 144 | 154207 | Bracket Footrest STLT |
| 145 | 156524 | Rod Pivot Chassis/Hood |

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

TRACTOR -- MODEL NUMBER 917.270820

GROUND DRIVE



TRACTOR - - MODEL NUMBER 917.270820

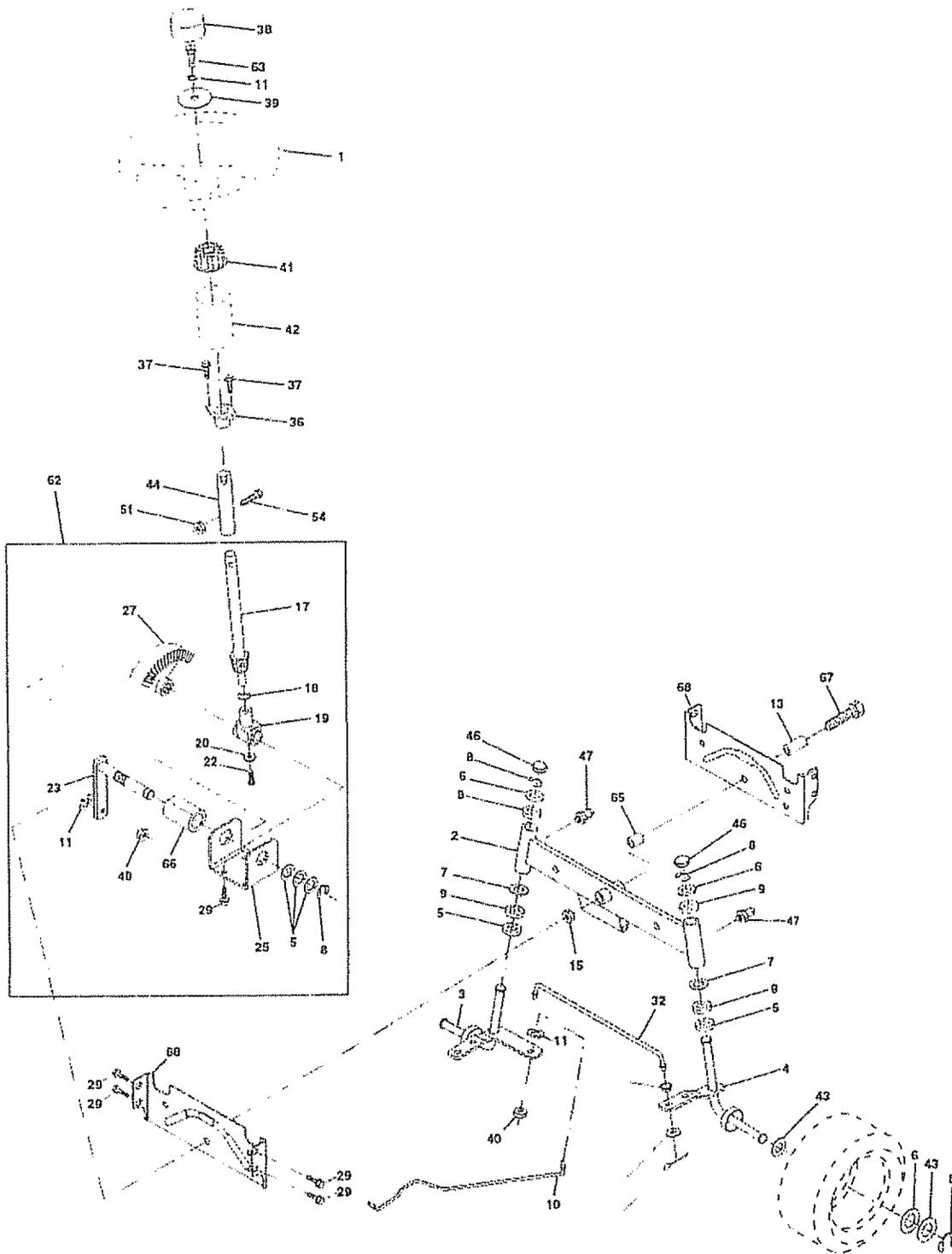
GROUND DRIVE

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|---------|-----------|--------------------------------------|
| 1 | 150071 | Transaxle (See Breakdown) Hydro Gear Model No. 310-0650 | 64 | 71170764 | Bolt Hex 7/16-20 x 4 Gr. 5 |
| | | | 65 | STD551149 | Washer |
| 2 | 142431 | Spring, Return, Brake | 66 | 161488 | Keeper Belt Engine Hydro |
| 3 | 143995 | Pulley, Transaxle | 70 | 134683 | Guide Belt RH Engine |
| 8 | 154792 | Rod Shift Fender STL | 71 | 140158 | Strap Torque Lh Hydro 18/20" T |
| 10 | STD561210 | Pin Cotter 1/8 x 1 CAD | 72 | 19132012 | Washer 13/32 x 1-1/4 x 12 Ga |
| 15 | 74490544 | Bolt Hex Flghd 5/16-18 Gr. 5 | 73 | 156347 | Strap Torque Rh Hydro 0650 |
| 16 | STD541431 | Nut Lock Hex W/ins 5/16-18 Unc | 74 | 121199X | Spacer, Split |
| | | | 75 | 121749X | Washer 25/32 x 1-1/4 x 16 Gauge |
| 18 | STD523710 | Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5 | 76 | STD581075 | E-Ring |
| 19 | STD541437 | Nut Lock Hex WWsh 3/8-16 Unc | 77 | 123583X | Key, Square |
| | | | 78 | 121748X | Washer 25/32 x 1-5/8 x 16 Gauge |
| 21 | 130564 | Knob, Deluxe 1/2-13 | | | |
| 22 | 145627 | Rod, Brake Hydro | 81 | 161079 | Shaft Asm Cross Hydro 20" Tires |
| 24 | 73350600 | Nut, Hex Jam 3/8-16 Unc | | | |
| 25 | 106888X | Spring, Brake Rod | 82 | 123782X | Spring Torsion T/A |
| 26 | STD551037 | Washer | 83 | 19171216 | Washer 17/32 x 3/4 x 16 Ga. |
| 27 | STD561210 | Pin Cotter 1/8 x 3/4 CAD. | 84 | 161901 | Rod, Tie Hydro 20" Tires |
| 28 | 145204 | Rod, Parking Brake | 86 | 157480 | Bushing |
| 29 | 124236X | Cap, Parking Brake | 87 | 19212016 | Washer 21/32 x 1-1/4 x 16 Ga. |
| 30 | 130807 | Bracket, Transaxle | 88 | 12000008 | Ring Klip #5304-62 |
| 32 | 74760512 | Bolt Hex Hd 5/16-18 Unc x 3/4 | 89 | 158388 | Console, Shift |
| 34 | 155071 | Shaft, Foot Pedal | 90 | 124346X | Nut Self-Thd Wsh-hd 1/4 Zinc |
| 35 | 120183X | Bearing, Nylon | 91 | 74780536 | Bolt Fin Hex 5/16-18 x 2-1/4 |
| 36 | 19211616 | Washer | 92 | 74780524 | Bolt Fin Hex 5/8-18 Unc x 1-1/2 |
| 37 | 1572H | Pin, Roll | 93 | 142564 | Line Fuel Hydro 4" |
| 38 | 123674X | Pulley, Idler, Flat | 94 | 140462 | Fan, Hydro 7" |
| 39 | STD523727 | Bolt | 95 | 144643 | Control Bypass Hydro 20" Tires |
| 40 | 4470J | Spacer, Split | 96 | 4497H | Retainer Spring 1" Zinc/Cad |
| 41 | 154777 | Keeper, Belt Idler | 97 | 140469 | Keeper Bolt Rh Hydro 0750 18/20" |
| 42 | 19131312 | Washer 13/32 x 13/16 x 12 Gauge | 98 | 73510600 | Nut Keps Hex 3/8-16 Unc |
| 43 | 19111012 | Washer 11/32 x 5/8 x 12 Ga. | 100 | 19111216 | Washer 11/32 x 3/4 x 16 Ga. |
| 47 | 127783 | Pulley, Idler, V-Groove | 102 | 141322 | Washer Bellville .501D x 1 50D |
| 48 | 154407 | Bellcrank Clutch Gmd Drv STL | | | |
| 49 | 123205X | Retainer, Belt | 103 | 73940800 | Nut Hex Jam Toplock 1/4-20 Unf |
| 50 | STD523715 | Bolt | | | |
| 51 | STD541437 | Nut Crownlock 3/8-16 UNC | 104 | 140158 | Arm, Control Hydro |
| 52 | STD541431 | Nut, Crownlock 5/16-18 Unc | 105 | 71070516 | Screw Cap Hex 5/16 x 18 x 1 |
| 53 | 105710X | Link, Clutch | 106 | 74780520 | Bolt Fin Hex 5/16-18 Unc x 1- 1/4 |
| 55 | 105709X | Spring, Return, Clutch | | | |
| 56 | STD523712 | Bolt Hex 3/8-16 x 1-1/4 | 116 | 72110610 | Bolt Carr. 3/8-16 x 1 25 |
| 57 | 161588 | V-Belt, Ground Drive | 144 | 19111016 | Washer 11/32 x 5/8 x 16 Ga. |
| 59 | 140312 | Keeper, Center Span | 148 | 159103 | Spacer |
| 61 | 17490612 | Screw Thdrol. 3/8-16 x 3/4 Ty. TT | 149 | 122052X | Spacer Retainer PM Mower |
| | | | 150 | 150935 | Bushing Nylon Collered |
| 62 | 8883R | Cover, Pedal | 151 | 19133210 | Washer 13/32 x 2 x 10 Ga |
| 63 | 161399 | Pulley, Engine | | | |

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

TRACTOR - - MODEL NUMBER 917.270820

STEERING ASSEMBLY



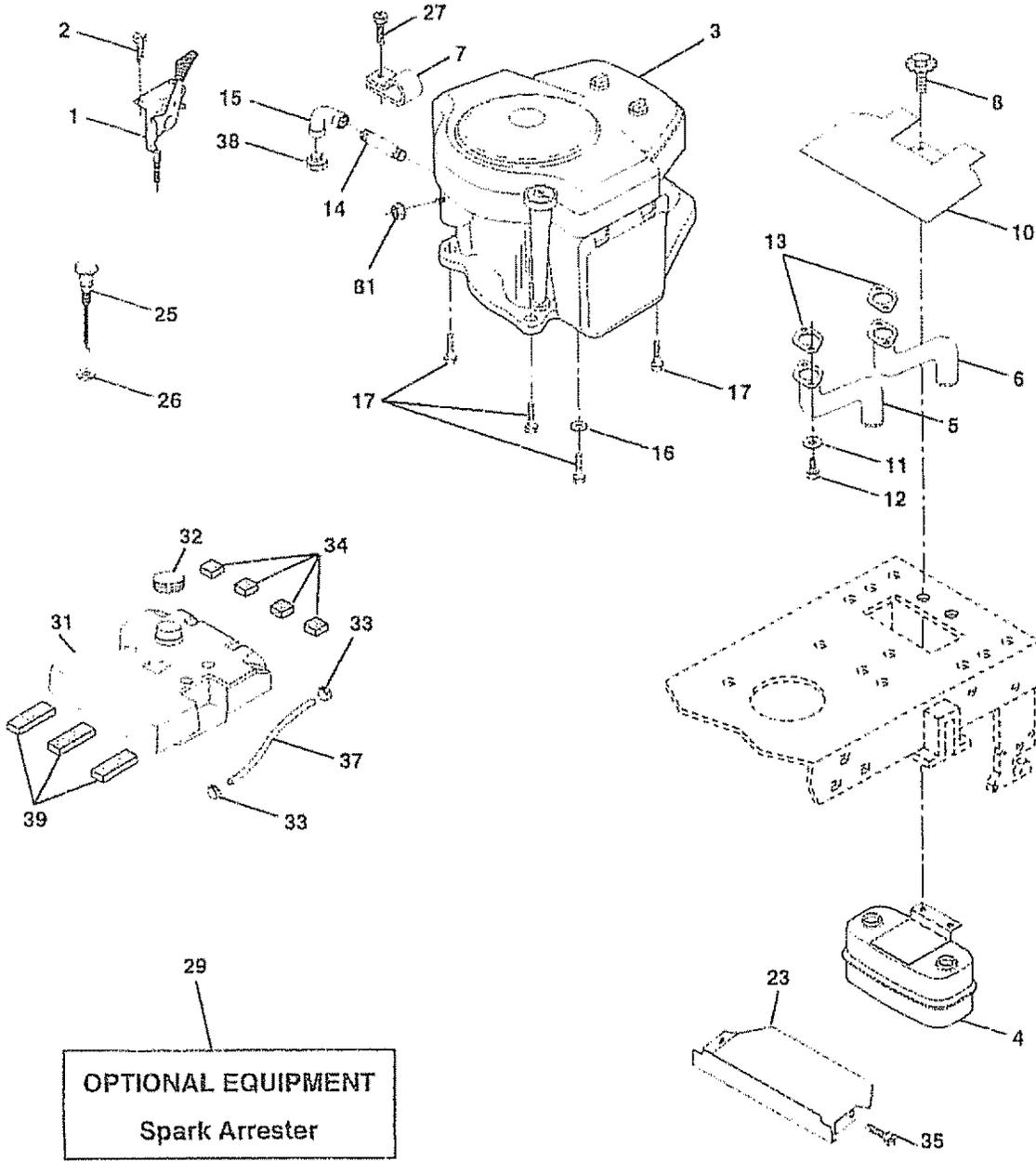
TRACTOR - - MODEL NUMBER 917.270820
STEERING ASSEMBLY

| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|-----------------------------------|
| 1 | 139768 | Steering Wheel |
| 2 | 154427 | Front Axle Assembly |
| 3 | 156483 | Spindle Assembly, L.H |
| 4 | 157473 | Spindle Assembly, R.H. |
| 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, Steering Column |
| 10 | 156438 | Link, Drag |
| 11 | STD551137 | Washer, Lock |
| 13 | 154779 | Spacer, Bearing, Front Axle |
| 15 | 73901000 | Nut, Lock, Flange 5/8-11 UNC |
| 17 | 156546 | Shaft Assembly, Steering |
| 18 | 57079 | Washer, Thrust 515 x .750 x .033 |
| 19 | 124035X | Support, Shaft |
| 20 | 126684X | Washer, Shim 1/4 x 5/8 x .062 |
| 22 | 71200410 | Screw Hex Socket 1/4-20 x 5/8 |
| 23 | 127501 | Pittman Shaft Assembly |
| 25 | 154406 | Bracket, Steering |
| 26 | 126847X | Bushing, Link, Drag |
| 27 | 136874 | Gear, Sector |
| 28 | 19131416 | Washer 13/32 x 7/8 x 16 Gauge |
| 29 | 17490612 | Screw, Thd., Roll. 3/8-16 x 3/4 |
| 30 | STD561210 | Pin |
| 32 | 130465 | Rod, Tie |
| 36 | 155099 | Bushing, Steering |
| 37 | 152927 | Screw TT #10-32 x 5 x 3/8 Flange |
| 38 | 139769 | Insert, Steering Wheel |
| 39 | 19133808 | Washer 13/32 x 2-3/8 x 8 Gauge |
| 40 | STD541537 | Gripco Nut |
| 41 | 100711L | Adaptor, Steering Wheel |
| 42 | 145054 | Boot, Steering Dash P/L Mtl Blk |
| 43 | 121749X | Washer 25/32 x 1-1/4 x 16 Gauge |
| 44 | 153720 | Extension Steering Non-Adjust |
| 46 | 121232X | Cap, Spindle |
| 47 | 6855M | Fitting, Grease |
| 51 | 73800500 | Nut Lock Hx W/Ins 5/16-18 UNC |
| 54 | 74780520 | Bolt Fin Hex 5/16-18 UNC x 1-1/4 |
| 62 | 156594 | Kit, Steering Assembly, Service |
| 63 | 74780616 | Bolt Fin Hex 3/8-16 unc x 1 Gr. 5 |
| 65 | 154780 | Spacer Axle |
| 66 | 154404 | Bearing Arm Pittman |
| 67 | 74781044 | Bolt Fin Hex 5/8-11unc x 2-3/4 |
| 68 | 154429 | Brace Axle |

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

TRACTOR -- MODEL NUMBER 917.270820

ENGINE



TRACTOR -- MODEL NUMBER 917.270820

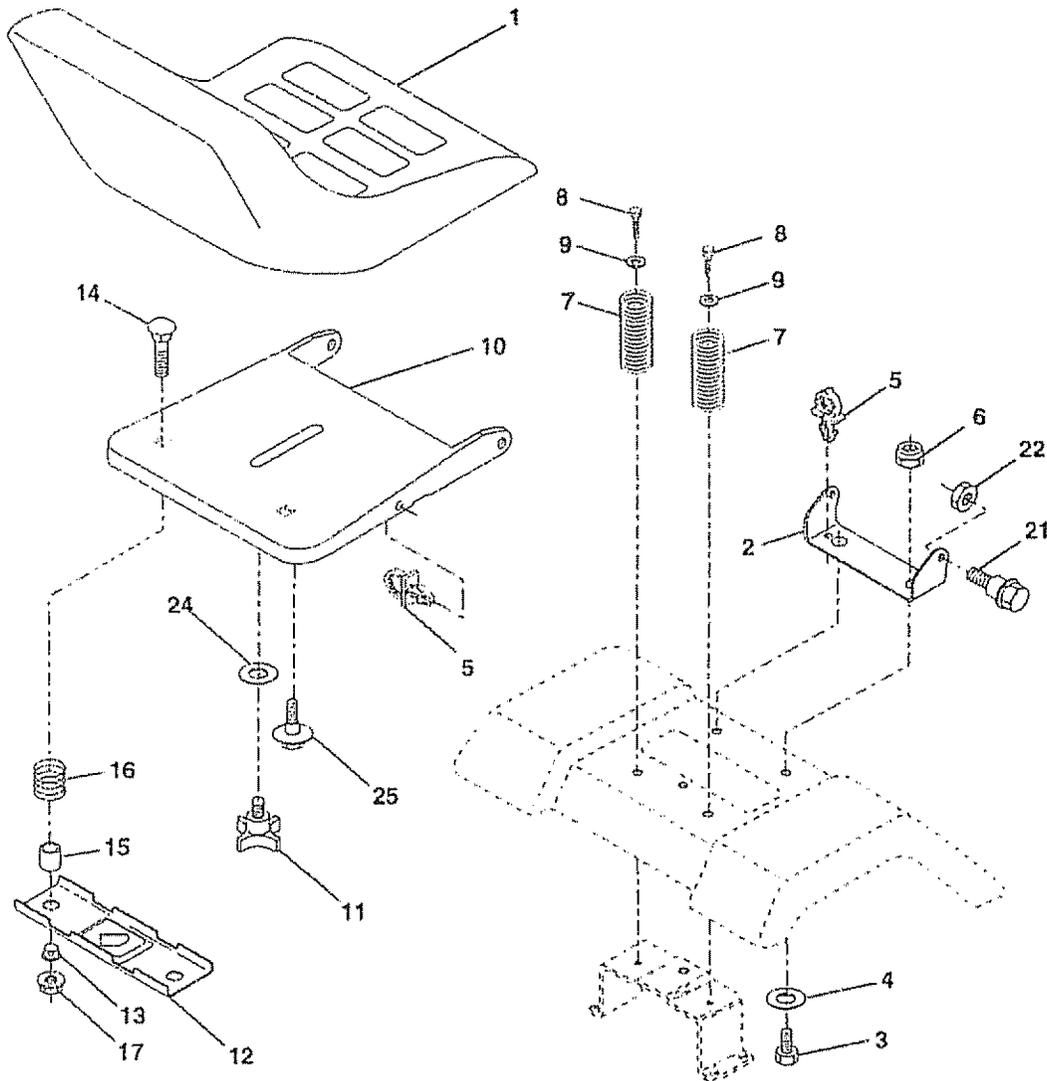
ENGINE

| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|---|
| 1 | 162152 | Control Throt Paddle 32 22 |
| 2 | 17720410 | Screw Hex Thd Cut 1/4-20x5/8 T |
| 3 | ----- | Engine (See Breakdown) Briggs Model No. 42E707-2631-E1 |
| 4 | 149723 | Muffler Exhaust |
| 5 | 144069 | Exhaust Asm. Left |
| 6 | 144068 | Exhaust Asm. Right |
| 7 | 138129 | Clamp Tube Double Engine |
| 8 | 150176 | Bolt 5/16 - 18 UNC X 3/4 W/Sems |
| 10 | 145552 | Heat Shield Lt |
| 11 | STD551125 | Washer Lock Hvy. Helical 1/4 |
| 12 | STD522507 | Bolt Fin Hex 1/4-20 x 3/4 |
| 13 | 272250 | Gasket Muffler |
| 14 | 13280336 | Nipple Pipe 4-1/2" |
| 15 | 13200300 | Elbow Std 90 Degree 3/8-18 Npt |
| 16 | STD551237 | Washer Lock Ext Tooth 3/8 |
| 17 | 17490624 | Screw Thdrol 3/8-16x1-1/2 Tytl |
| 23 | 159880 | Shield Browning/Debris Guard |
| 25 | 145996 | Control Choke |
| 26 | 73920600 | Nut Keps 3/8-24 Unf |
| 27 | 152927 | Screw TT #10-32 x 5 x 3/8 Flange |
| 29 | 137180 | Arrestor Spark |
| 31 | 157103 | Tank Fuel 3 50 Rear |
| 32 | 161696 | Cap Fuel Guage STLT |
| 33 | 123487X | Clamp Hose Blk |
| 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 | Pad Idler 1.75 x .75 x .06 |
| 40 | 3645J | Bushing |
| 41 | 139277 | Stem Tank Fuel |
| 81 | 128861 | Nut, Flange 1/4-20 Starter Nut |

NOTE: All component dimensions given in U.S. inches
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TRACTOR - - MODEL NUMBER 917.270820

SEAT ASSEMBLY

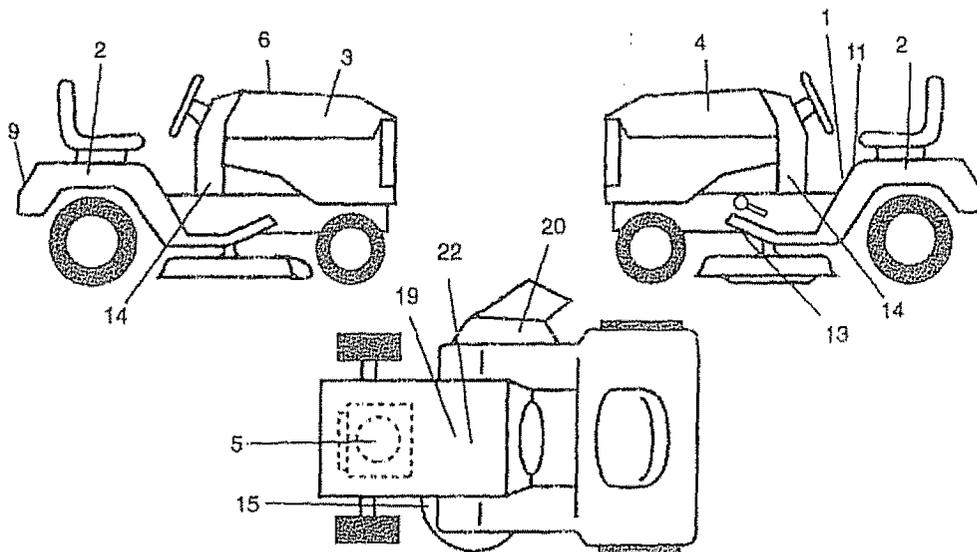


| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|--------------------------------|---------|-----------|--------------------------------|
| 1 | 140123 | Seat 3450 Blk/blk Craftsman | 12 | 121246X | Bracket Pnt Mounting Switch |
| 2 | 140551 | Bracket Pnt Pivot Seat (blk) | 13 | 121248X | Bushing Snap Blk Nyl 50 Id |
| 3 | 74760616 | Bolt Fin Hex 3/8-16unc X 1 | 14 | 72050412 | Bolt Rdhd Sht Nk 1/4-20x1-1/2 |
| 4 | 19131610 | Washer 13/32 X 3/4 X 10 Ga | 15 | 134300 | Spacer Split 28 X 96 Zinc |
| 5 | 145006 | Clip Push In Hinged | 16 | 121250X | Spring Cprsn 1 27 Blk Pnt |
| 6 | STD541437 | Nut Hex Lock w/Ins 3/8-16 Unc | 17 | 123976X | Nut Lock 1/4 Lge Flg Gr 5 Zinc |
| 7 | 124181X | Spring Seat Cprsn 2 250 Blk Zi | 21 | 153235 | Bolt Shoulder 5/16-18 Unc-2A |
| 8 | 17490616 | Screw Thdrol 3/8-16 X 1 Ty-It | 22 | STD541431 | Nut Hex Lock w/Ins 5/16-18 |
| 9 | 19131614 | Washer 13/32 X 1 X 14 Ga | 24 | 19171912 | Washer 17/32 X 1-3/16 X 12 Ga. |
| 10 | 155925 | Pan Pnt Seat (blk) | 25 | 127018X | Bolt Shoulder 5/16-18 X 62 |
| 11 | 120068X | Knob Seat 1/2-13 Unc Blk | | | |

NOTE: All component dimensions given in U.S. Inches-
as 1 inch = 25.4 mm

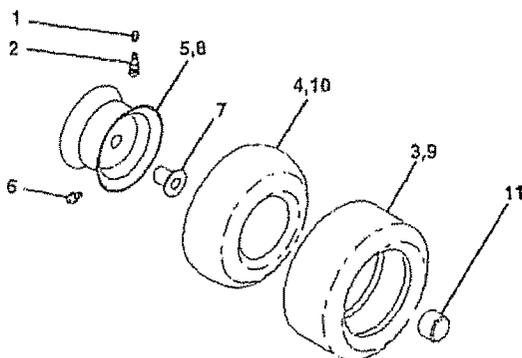
TRACTOR - - MODEL NUMBER 917.270820

DECALS



| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|----------------------------------|---------|----------|------------------------------------|
| 1 | 156439 | Decal Fender Danger Sears | 15 | 160396 | Decal Mower Drive Schematic |
| 2 | 163205 | Decal Fend Auto Sears Gold | 19 | 138047 | Decal, Battery Diehard Sears |
| 3 | 163200 | Decal Hood Rh Craftsman | 20 | 163203 | Decal Deck Mower EZ3 Mulching |
| 4 | 163202 | Decal Hood Lh Craftsman | 22 | 149516 | Decal Battery |
| 5 | 273503 | Decal HP Engine | -- | 138311 | Decal Lift Handle |
| 6 | 133644 | Decal Maint Customer Sears Dorn | -- | 142341 | Decal, Drawbar Cntrl. Mvt Hyd. Lt. |
| 9 | 163204 | Decal Fender Craftsman Gold | -- | 154515 | Pad Footrest Lh STLT |
| 11 | 156811 | Decal Fender STLTH Oper Inst E/S | -- | 154516 | Pad Footrest Rh STLT |
| 13 | 146046 | Decal V-belt Dr Sch Tractor E | -- | 163471 | Manual, Owner's (English) |
| 14 | 163259 | Decal Dash Panel | -- | 163472 | Manual, Owner's (Spanish) |

WHEELS & TIRES

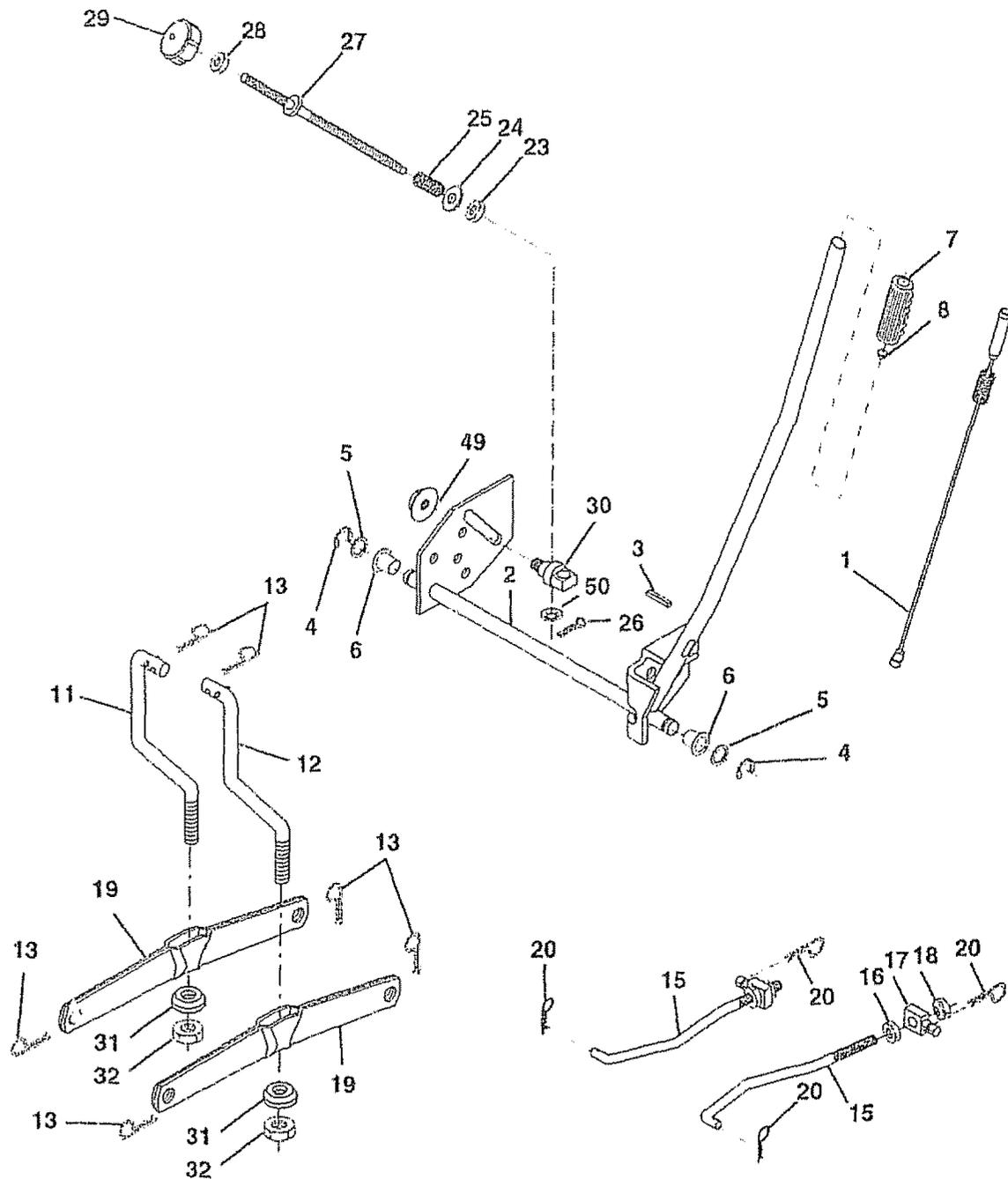


| KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|---|
| 1 | 59192 | Valve Cap, Tire |
| 2 | 65139 | Stem, Valve |
| 3 | 106222X | Tire, Front |
| 4 | 59904 | Tube, Front Tire (Not Provided, Service Item Only) |
| 5 | 106732X427 | Rim, Front |
| 6 | 278H | Fitting, Grease (Front Wheel Only) |
| 7 | 9040H | Bearing, Flange (Front Wheel Only) |
| 8 | 106108X427 | Rim, Rear |
| 9 | 122082X | Tire, Rear |
| 10 | 7152J | Tube, Rear Tire (Not Provided, Service Item Only) |
| 11 | 104757X | Cap, Axle |
| -- | 144934 | Sealant, Tire (10 oz. Tube) |

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1 inch = 25.4 mm

TRACTOR -- MODEL NUMBER 917.270820

LIFT ASSEMBLY



TRACTOR - - MODEL NUMBER 917.270820

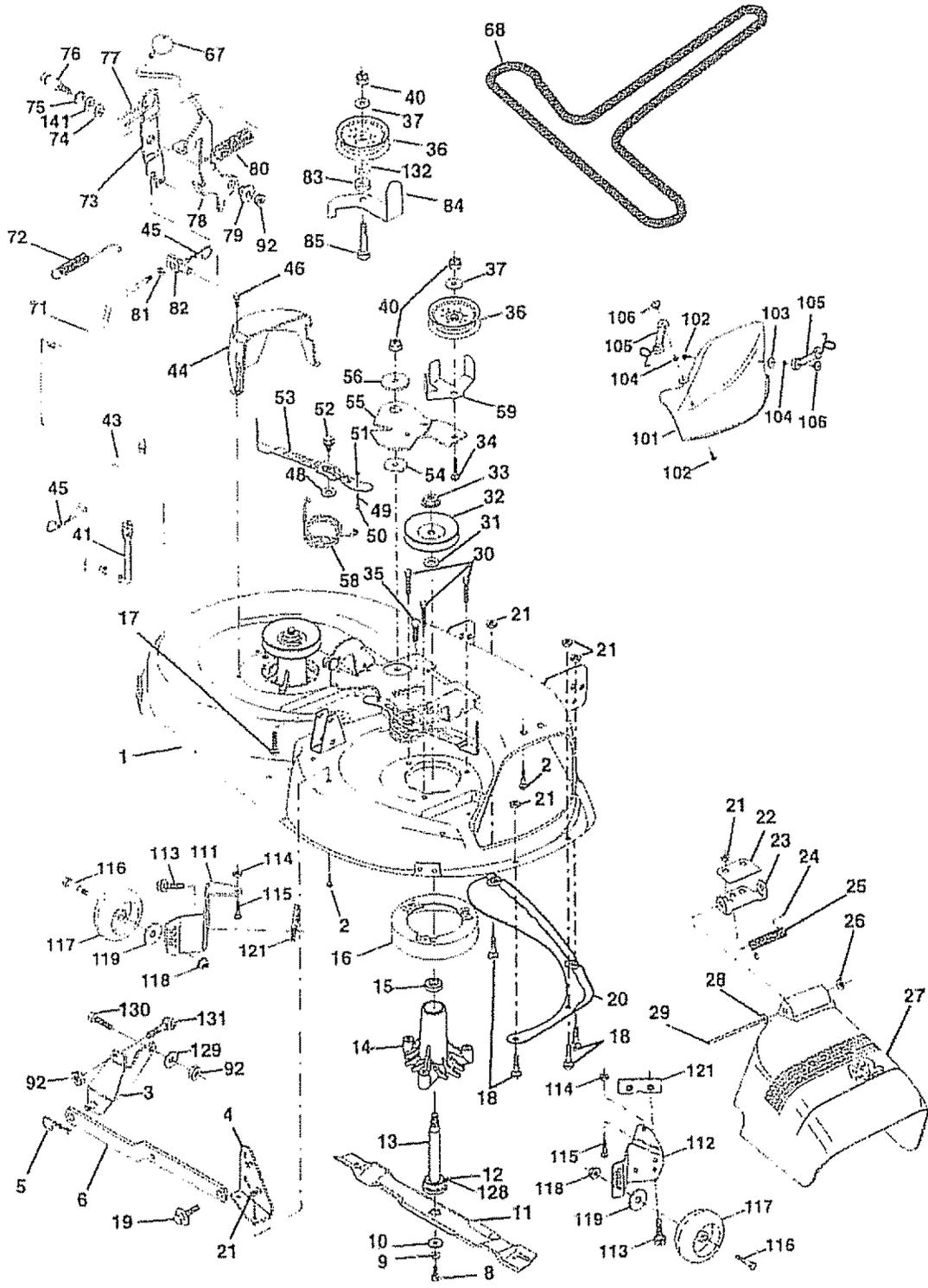
LIFT ASSEMBLY

| KEY NO. | PART NO. | DESCRIPTION |
|---------|-----------|----------------------------------|
| 1 | 159460 | Lift Lever Inner Wire Asm. |
| 2 | 159471 | Shaft Asm. Lift |
| 3 | 105767X | Pin Groove |
| 4 | 12000002 | E Ring |
| 5 | 19211621 | Washer 21/32 x 1 x 21 Ga. |
| 6 | 120183X | Bearing Nylon |
| 7 | 125631X | Grip Handle Fluted |
| 8 | 122365X | Button Plunger Read |
| 11 | 139865 | Link Asm Lift L.H. |
| 12 | 139866 | Link Asm Lift R.H. |
| 13 | STD624008 | Retainer Spring |
| 15 | 127218 | Link Front |
| 16 | 73350800 | Nut Jam Hex 1/2-13 Unc |
| 17 | 130171 | Trunnion Blk Zinc |
| 18 | 73680800 | Nut Lock W/Wsh 1/2-13 Unc |
| 19 | 139868 | Arm Suspension Mower |
| 20 | STD624008 | Retainer Spring |
| 23 | 110807X | Nut, Special |
| 24 | 19131016 | Washer 13/32 x 5/8 x 16 Ga |
| 25 | 2876H | Spring |
| 26 | 76020308 | Pin, Cotter 3/32 x 1/2 |
| 27 | 126971X | Rod, Adjust Life |
| 28 | 73350600 | Nut, Hex Jam 3/8-16 UNC |
| 29 | 138057 | Knob, Infinite Height Admusement |
| 30 | 150233 | Trunnion, Inf. Height |
| 31 | 140302 | Bearing, Pvt. Lift. Spherical |
| 32 | 73540600 | Nut Crownlock 3/8-24 |
| 49 | 145212 | Nut, Hex Flange Lock |
| 50 | 110452X | Nut, Push Phos. & Oil |

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

TRACTOR - - MODEL NUMBER 917.270820

MOWER DECK



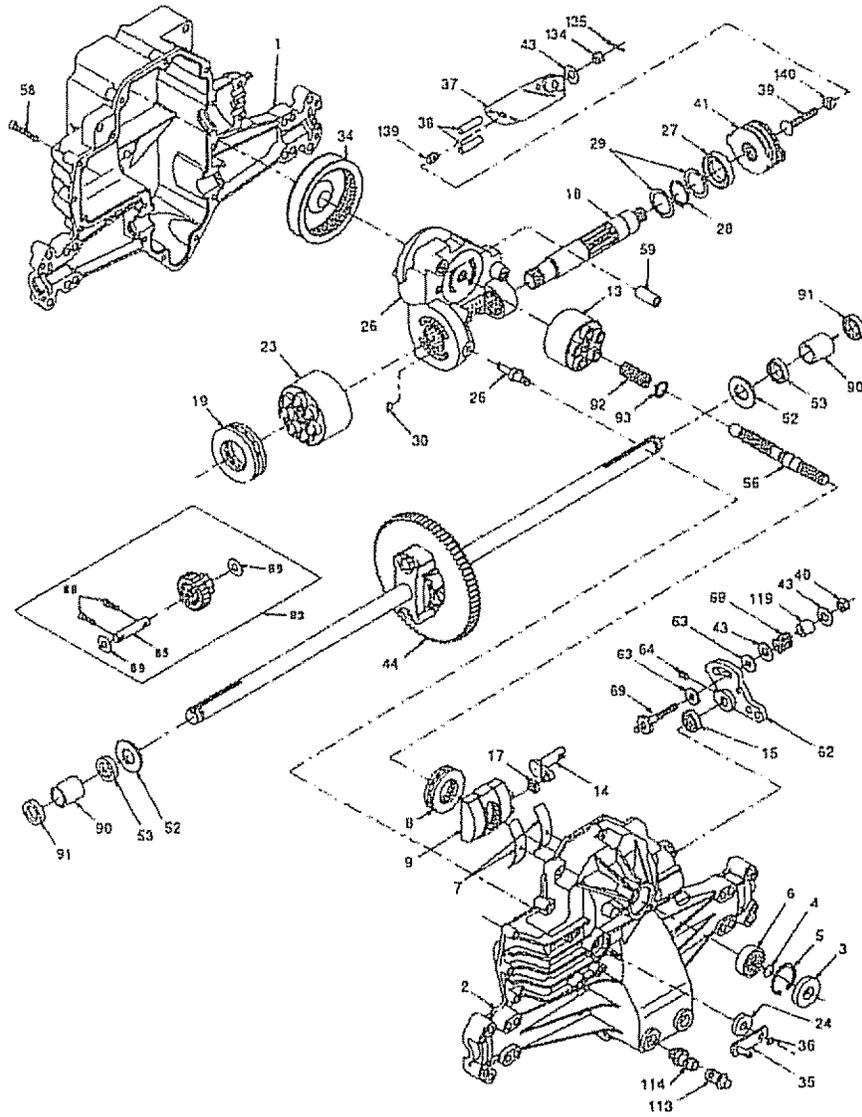
TRACTOR - - MODEL NUMBER 917.270820

MOWER DECK

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|------------|--|---------|-----------|--|
| 1 | 144393 | Mower Housing | 59 | 141043 | Guard, Tuv Idler (94) |
| 2 | STD533107 | Bolt | 67 | 162113 | Knob Custom Oval |
| 3 | 138017 | Bracket Assembly, Sway Bar, Front | 68 | 144200 | V-Belt |
| 4 | 138440 | Bracket Assembly, Sway Bar | 71 | 142427 | Rod, Clutch, Primary, with Nibs |
| 5 | STD624008 | Retainer Spring | 72 | 131870 | Spring, Return |
| 6 | 130832 | Arm, Suspension, Rear | 73 | 127847 | Arm, Clutch, Secondary |
| 8 | 850857 | Bolt, Hex 3/8-24 x 1 25 Gr 8 | 74 | 121748X | Washer 25/32 x 1-5/8 x 16 Ga. |
| 9 | STD551137 | Washer, Lock | 75 | 12000029 | Ring, Klip |
| 10 | 140296 | Washer, Hardened | 76 | 128903 | Bolt, Shoulder 3/8-16 UNC x 1.44 |
| 11 | 134149 | Blade, Mulching | 77 | 127845 | Keeper, Spring |
| 12 | 129895 | Bearing, Ball | 78 | 160570 | Arm, Clutch, Primary |
| 13 | 137645 | Shaft Assembly, Mandrel, Vented (Incl. Key Number 6) | 79 | 127498 | Bushing, Large, Brass |
| 14 | 128774 | Housing, Mandrel, Vented | 80 | 153701 | Spring, Mower Clutch |
| 15 | 110485X | Bearing, Ball, Mandrel | 81 | 73350600 | Nut, Hex Jam 3/8-16 UNC |
| 16 | 140329 | Stripper, Vented Mower Deck | 82 | 142028 | Trunnion Adj. 94 |
| 17 | 72110610 | Bolt, Carriage 3/8-16 x 2-1/4 | 83 | 120958X | Washer Sintered |
| 18 | 72140505 | Bolt, Carriage 5/16-18 x 5/8 | 84 | 156084 | Keeper Belt Idler |
| 19 | 132827 | Bolt, Shoulder | 85 | 72140618 | Bolt Carriage 3/8-16 x 2-1/4 |
| 20 | 159770 | Baffle, Vortex | 92 | STD541437 | Locknut, Hex W/Wsh 3/8-16 UNC |
| 21 | STD541431 | Nut, Crownlock 5/16-18 UNC | 101 | 136420 | Cover Mulching 42" Black |
| 22 | 134753 | Stiffener Bracket | 102 | 71161010 | Screw Truss Hd Phil10-24 x5/8 |
| 23 | 131267 | Bracket, Deflector | 103 | 19061216 | Washer #10 |
| 24 | 105304X | Cap, Sleeve | 104 | STD551110 | Washer Lock |
| 25 | 123713X | Spring, Torsion, Deflector | 105 | 160793 | Latch Asm Bagger |
| 26 | 110452X | Nut, Push | 106 | 2029J | Nut Weld |
| 27 | 130968 | Shield, Deflector | 111 | 155197 | Bracket Gauge, Wheel LH |
| 28 | 19111016 | Washer 11/32 x 5/8 x 16 Ga. | 112 | 155198 | Bracket, Gauge, Wheel RH |
| 29 | 131491 | Rod, Hinge | 113 | 17490512 | Screw Thdrol 5/16-18 x 3/4 |
| 30 | 157722 | Screw Thdrol Rolling Wsh Hd | 114 | 73510500 | Nut, Hex Keps 5/16-18 UNC |
| 31 | 129963 | Washer, Spacer | 115 | 72110504 | Bolt, Carriage 5/16 UNC x 1/2 |
| 32 | 153535 | Pulley, Mandrel | 116 | 137644 | Bolt, Shoulder |
| 33 | 137266 | Nut, Toplock, Flanged | 117 | 133957 | Wheel, Gauge |
| 34 | STD533717 | Bolt | 118 | 73930600 | Nut, Crownlock 3/8-16 |
| 35 | 133835 | Fastner, Christmas Tree | 119 | 19121414 | Washer 13/32 x 7/8 x 14 Ga. |
| 36 | 131494 | Pulley, Idler, Flat | 121 | 143723 | Bracket |
| 37 | 19131316 | Washer 13/32 x 13/16 x 16 Ga. | 128 | 153390 | Washer Felt |
| 40 | STD541437 | Nut, Crownlock 3/8-16 UNC | 129 | 19131312 | Washer 13/32 x 13/16 x 12 Ga |
| 41 | 133551 | Rod, Pivot, with Nibs | 130 | STD523710 | Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5 |
| 43 | 140083 | Rod, Clutch, Secondary. w/Nibs | 131 | STD533710 | Bolt Fldhd Sqnk 3/8-16 UNC x 1 |
| 44 | 140088 | Guard, Mandrel, L.H. | 132 | 19132203 | Washer 13/32 x 1-3/8 x 3 Ga. |
| 45 | STD624003 | Retainer | 141 | 6266H | Washer Thrust .75 x 1.230 |
| 46 | 137729 | Screw, Thd. Roll 1/4-20 x 5/8 | -- | 130794 | Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32) |
| 48 | 133944 | Washer, Hardened | -- | 145411 | Mower Deck, Complete (Std deck - order separately mulcher plate components key nos. 101-106) |
| 49 | 155066 | Roller Assembly, Cam Follower | | | |
| 50 | 131340 | Bolt, Shoulder #10-24 Grade 5 | | | |
| 51 | STD541410 | Locknut | | | |
| 52 | 139888 | Bolt, Shoulder 5/16-18 UNC | | | |
| 53 | 131845X900 | Arm Assembly, Pad, Brake | | | |
| 54 | 133943 | Washer, Hardened | | | |
| 55 | 155046 | Arm, Idler | | | |
| 56 | 122052X | Spacer, Retainer | | | |
| 58 | 140086 | Spring, Torsion Brakes 42" | | | |

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

TRACTOR -- MODEL NUMBER 917.270620
HYDRO GEAR TRANSAXLE -- MODEL NUMBER 310-650



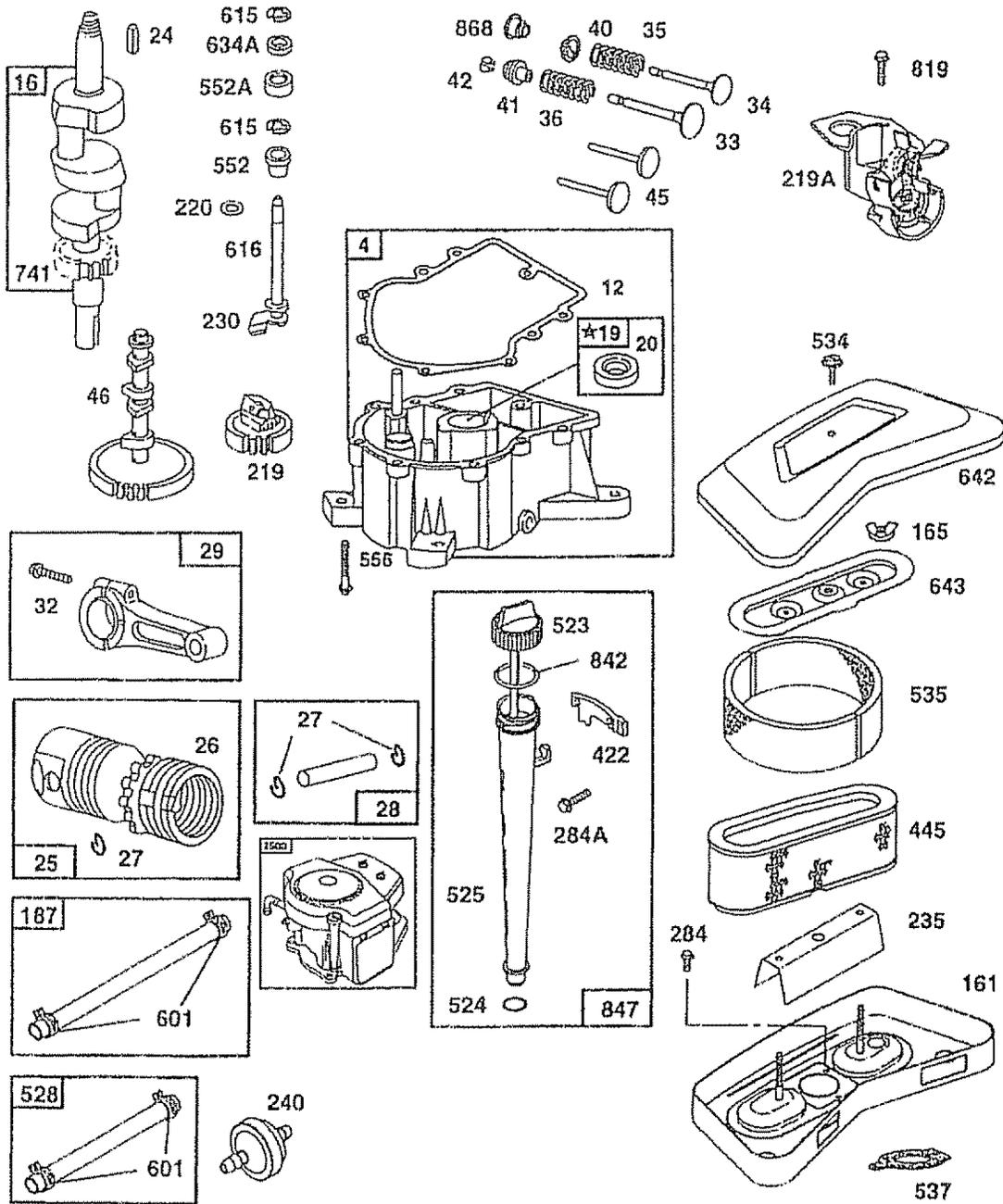
TRACTOR - - MODEL NUMBER 917.270820
HYDRO GEAR TRANSAXLE - - MODEL NUMBER 310-650

| KEY PART NO. NO. | DESCRIPTION | KEY PART NO. NO. | DESCRIPTION |
|---------------------|------------------------------|---------------------|---------------------------|
| 1 532142930 | Housing, Lower | 43 532142884 | Washer 7/16 x 7/8 x .060 |
| 2 532142931 | Assembly, Upper Housing | 44 532150829 | Differential Assembly |
| 3 532142932 | Seal, Lip | 52 532142991 | Washer 3/4 x 1.5 x .13 |
| 4 532142928 | Ring, Wire Retaining | 53 532142961 | Seal .75 x 1.25 x .250 |
| 5 532142933 | Ring, Retaining | 56 532142963 | Shaft, Input |
| 6 532142934 | Bearing, Shaft Ball | 58 532142964 | Bolt 1/4-20 x 1.38 |
| 7 532142935 | Bearing, Cradle | 59 532142965 | Pin .5 OD x .43 ID x .750 |
| 8 532150771 | Bearing, Thrust 30 x 52 x 13 | 62 532142966 | Arm, Control |
| 9 532142937 | Swashplate, Variable | 63 532142967 | Puck, Dampener |
| 13 532142938 | Block, Cylinder Assembly | 64 532142920 | Set Screw |
| 14 532142939 | Arm, Trunnion | 68 532142969 | Spring |
| 15 532142940 | Seal, Lip | 69 532144610 | Stud 5/16-24 |
| 17 532142941 | Guide, Slot | 83 532142971 | Jackshaft Assembly |
| 18 532150772 | Shaft, Motor | 85 532150806 | Jackshaft |
| 19 532150773 | Bearing, Thrust 42 x 68 x 16 | 88 532142973 | Screw, Cap |
| 23 532142944 | Block, Cylinder Assembly | 89 532142974 | Washer 7/16 x 1 x 1/2 |
| 24 532142945 | Seal, Lip 10 x 25 x 7 | 90 532142975 | Sleeve Bearing |
| 25 532142946 | Actuator, Bypass | 91 532142976 | Seal, Wiper |
| 26 532150774 | Center Section Assembly Kit | 92 532142977 | Spring, Block |
| 27 532142948 | Seal, Lip 26 x 42 x 8 | 93 532142978 | Washer, Block Thrust |
| 28 532142949 | Ring, Retaining | 113 532142917 | Cap, Vent Assembly |
| 29 532142950 | Washer 26 x 35 x 1 | 114 532142918 | Fitting, O-Ring Assembly |
| 30 532150787 | Plate, Bypass | 119 532142980 | Spacer |
| 34 532142951 | Oil Filter Element | 134 532144607 | Nut, Castle 5/16-24 |
| 35 532142952 | Arm, Bypass | 135 532144608 | Pin, Cotter |
| 36 532142953 | Ring, Retaining | 139 532150775 | Spring, Compression |
| 37 532142954 | Arm, Actuating | 140 532150776 | Nut, Hex 5/16-24 |
| 38 532142955 | Pin, Actuating | | |
| 39 532150777 | Bolt 5/16-24 x 1-3/4 | | |
| 40 532150778 | Locknut, Hex 5/16-24 UNJC | | |
| 41 532142958 | Brake Rotor/Stator Kit | | |

NOTE: All component dimensions given in U.S. inches
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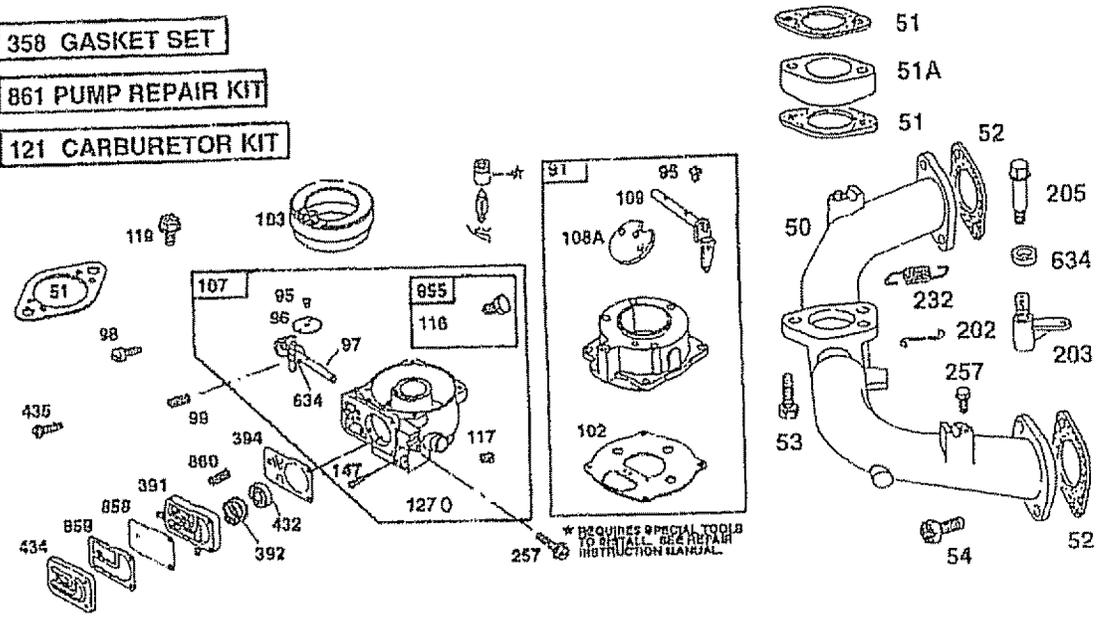
TRACTOR - - MODEL NUMBER 917.270820

BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1

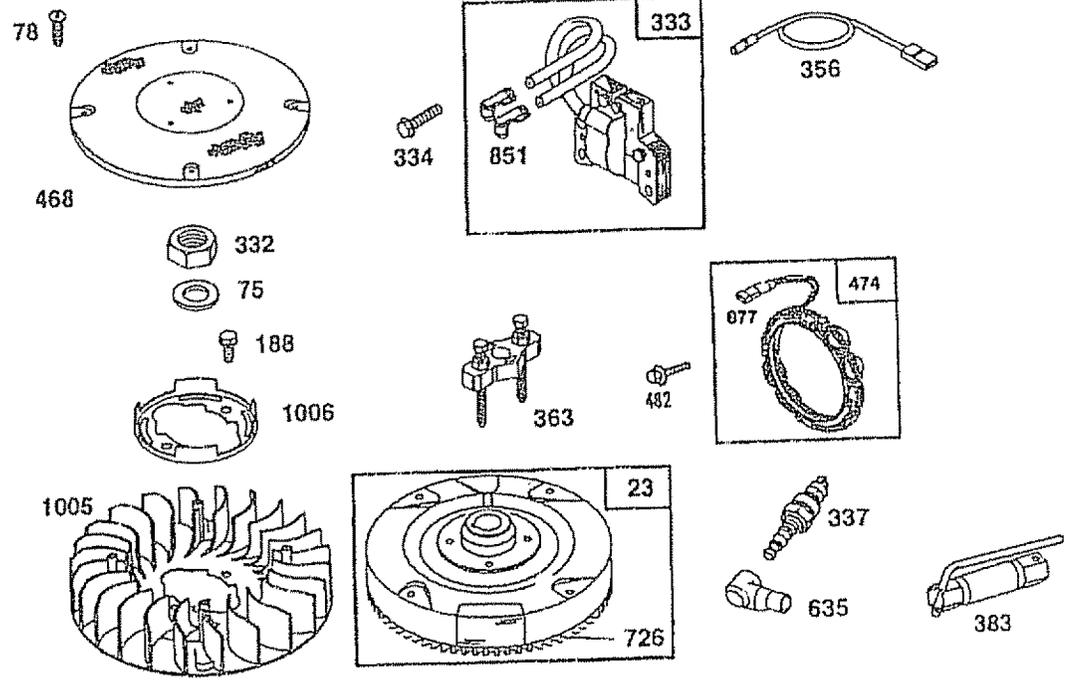


TRACTOR - - MODEL NUMBER 917.270820
 BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1

- 358 GASKET SET
- 861 PUMP REPAIR KIT
- 121 CARBURETOR KIT

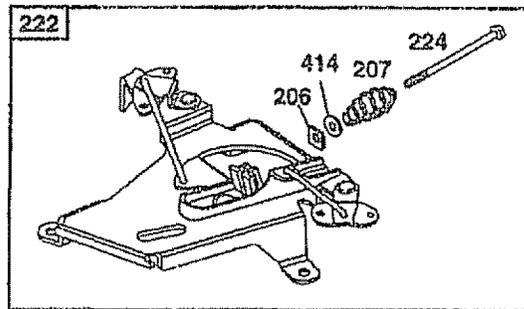
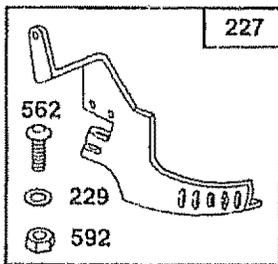
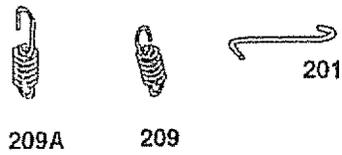
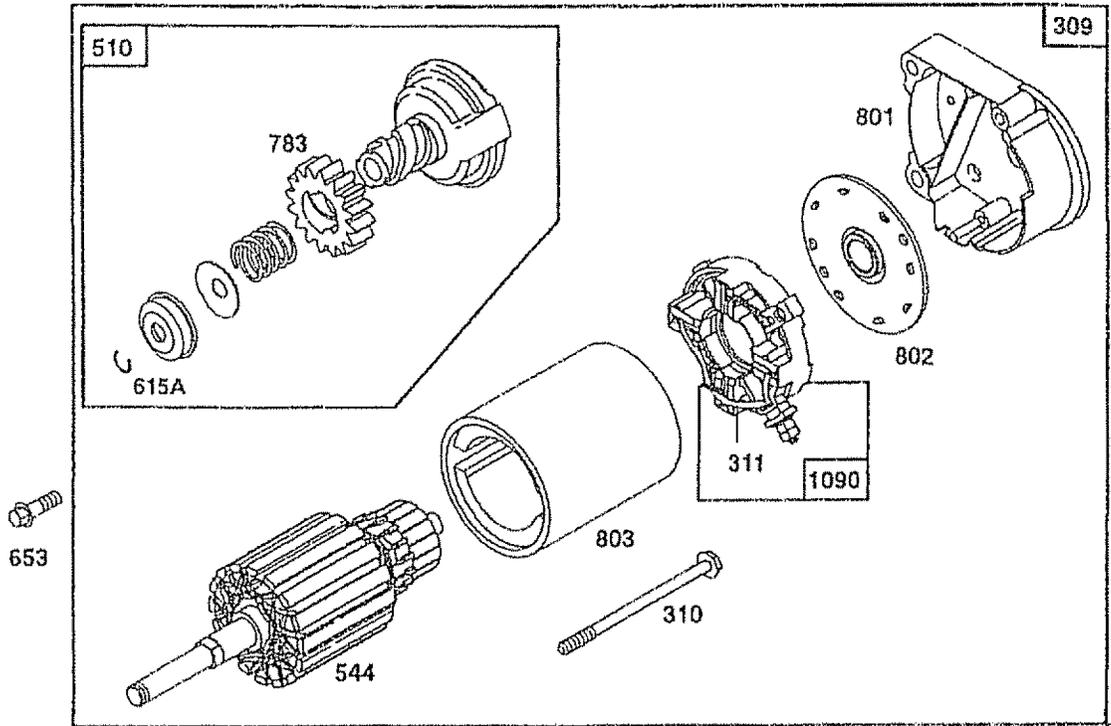


* REQUIRES SPECIAL TOOLS
 TO INSTALL. SEE REPAIR
 INSTRUCTION MANUAL.

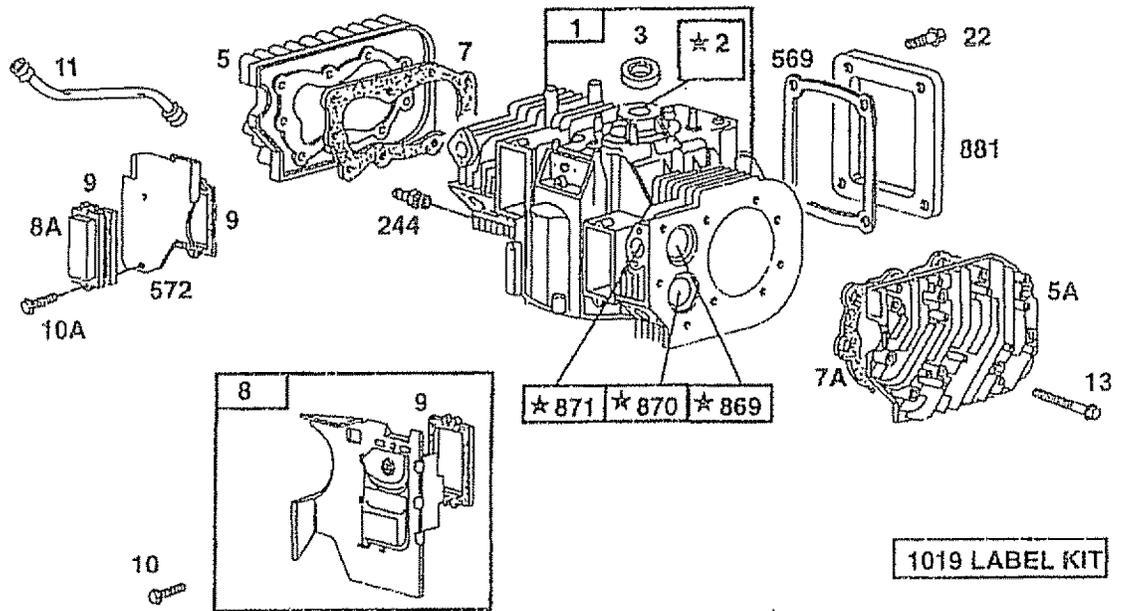


TRACTOR - - MODEL NUMBER 917.270820

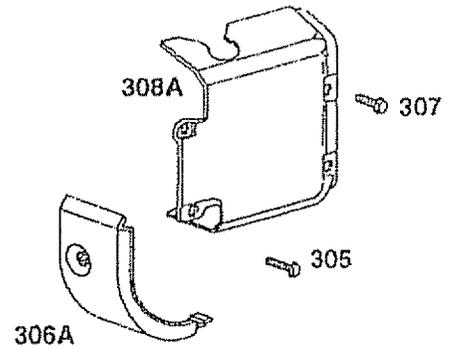
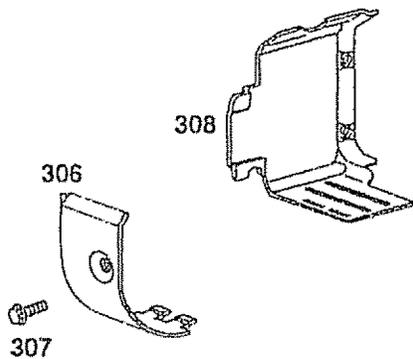
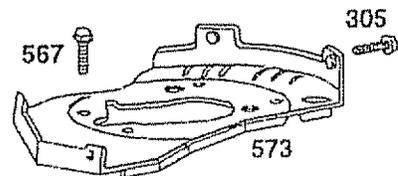
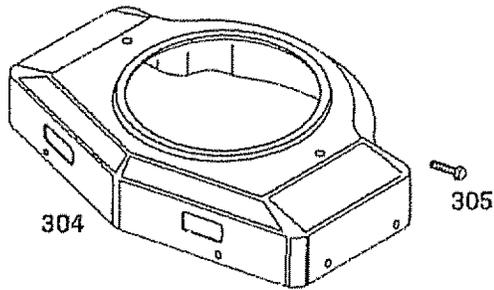
BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1



TRACTOR -- MODEL NUMBER 917.270820
BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1



★ REQUIRES SPECIAL TOOLS TO INSTALL. SEE REPAIR INSTRUCTION MANUAL.



TRACTOR - - MODEL NUMBER 917.270820

BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|--|---------|----------|--|
| 1 | 497074 | Cylinder Assembly | 51A | 281412 | Spacer, Carburetor |
| 2 | 399265 | Bushing | 52 | 270884 | * Gasket, Intake Manifold Mounting |
| 3 | 391086 | * Seal, Oil | 53 | 93970 | Screw, Hex Head, Carburetor to Manifold |
| 4 | 493304 | Sump, Engine | 54 | 93208 | Screw, Phillips |
| 5 | 493457 | Head, Cylinder #1 | 75 | 222511 | Washer, Spring |
| 5A | 493458 | Head, Cylinder #2 | 78 | 95039 | Screw, Hex |
| 7 | 271867 | * Gasket, Cylinder Head #1 | 91 | 499281 | Body Assembly, Upper |
| 7A | 271868 | * Gasket, Cylinder Head #2 | 95 | 93499 | Screw, Sems |
| 8 | 495754 | Breather Assembly #1 | 96 | 221939 | Valve, Throttle |
| 8A | 222892 | Cover, Breather Cylinder #2 (Used Only on Key #572, Air Baffle with Holes for Mounting) | 97 | 499172 | Shaft, Throttle |
| | | | 98 | 91920 | Screw, Fillister Head |
| 9 | 27803 | * Gasket, Breather | 99 | 26157 | Spring, Throttle Adjust |
| 10 | 94382 | Screw, Sems | 102 | 271607 | ** Gasket, Carburetor Body |
| 10A | 94830 | Screw, Sems | 103 | 298514 | Float, Carburetor |
| 11 | 280225 | Tube, Breather | 104 | 231435 | ** Pin, Float Hinge |
| 12 | 273208 | * Gasket, Crankcase, .015" Thick | 105 | 394682 | ** Valve, Needle |
| | 271188 | * Gasket, Crankcase, .005" Thick | 107 | 499655 | Body Assembly, Lower |
| | 271189 | * Gasket, Crankcase, .009" Thick | 108 | 225373 | Valve, Choke |
| 13 | 94565 | Screw, Cylinder Head | 109 | 392673 | Shaft, Choke |
| 15 | 94239 | Plug, Oil Drain | 116 | 280474 | * O-Ring |
| 16 | 394028 | Crankshaft | 117 | 232018 | Jet, Needle Valve, Fixed |
| | 94196 | Timing Gear Key | | 232022 | Jet, Needle Valve, Fixed, High Altitude |
| 19 | 399264 | Bushing | 119 | 94152 | Screw, Hex Head |
| 20 | 291675 | * Seal, Oil | 121 | 491539 | Carburetor Kit |
| 22 | 94724 | Screw, Sems | 125 | 19306 | Carburetor |
| 23 | 491180 | Flywheel | 127 | 223472 | ** Plug, Welch |
| 24 | 222698 | Key, Flywheel | 161 | 496599 | Base, Air Cleaner |
| 25 | 498584 | Piston Assembly, Standard Size | 165 | 94289 | Nut, Wing |
| | 498585 | Piston Assembly, .010" Oversize | 187 | 299146 | Line, Fuel, 28" Long (Cut to Suit) |
| | 498586 | Piston Assembly, .020" Oversize | 188 | 94627 | Screw |
| | 498587 | Piston Assembly, .030" Oversize | 201 | 262683 | Link |
| | | | 202 | 262684 | Link |
| 26 | 394959 | Ring Set, Standard Size | 203 | 280997 | Crank, Bell |
| | 394960 | Ring Set, .010" Oversize | 205 | 93971 | Screw, Hex Head |
| | 394961 | Ring Set, .020" Oversize | 206 | 94298 | Nut |
| | 394962 | Ring Set, .030" Oversize | 207 | 262337 | Spring, Control, Rod |
| 27 | 263129 | Lock, Piston Pin | 209 | 262352 | Spring, Governor |
| 28 | 498319 | Pin, Piston, Standard Size | 209A | 261563 | Spring, Governor Idle |
| | 391286 | Pin, Piston, .005" Oversize | 219 | 394348 | Gear, Governor |
| 29 | 394306 | Rod, Connecting, Standard Size | 219A | 393415 | Oil Siinger |
| | 397158 | Rod, Connecting, .020" Undersize | 220 | 222773 | Washer, Thrust |
| | | | 222 | 491282 | Bracket, Control |
| | | | 224 | 94297 | Screw, Torx |
| 32 | 94671 | Screw, Connecting Rod | | | |
| 33 | 390420 | Valve, Exhaust | | | |
| 34 | 261528 | Valve, Intake | * | | Included In Gasket Set (495868) |
| 35 | 65906 | Spring, Valve, Intake | ** | | Included in Carburetor Kit (491539) |
| 36 | 26828 | Spring, Valve, Exhaust | *** | | Included in Carburetor Kit (491539), and Pump Repair Kit (393397) |
| 40 | 221596 | Retainer, Valve, Intake | **** | | Included in Gasket Set (495868), and Carburetor Kit (491539) |
| 41 | 292260 | Retainer, Valve, Exhaust | | | |
| 42 | 494553 | Keeper, Valve | | | |
| 45 | 261368 | Tappet, Valve | | | |
| 46 | 214484 | Gear, Cam | | | |
| 50 | 213290 | Manifold, Intake | | | |
| 51 | 271412 | **** Gasket, Carburetor Mounting | | | |

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

TRACTOR - - MODEL NUMBER 917.270820

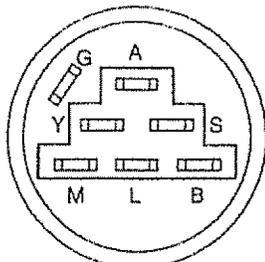
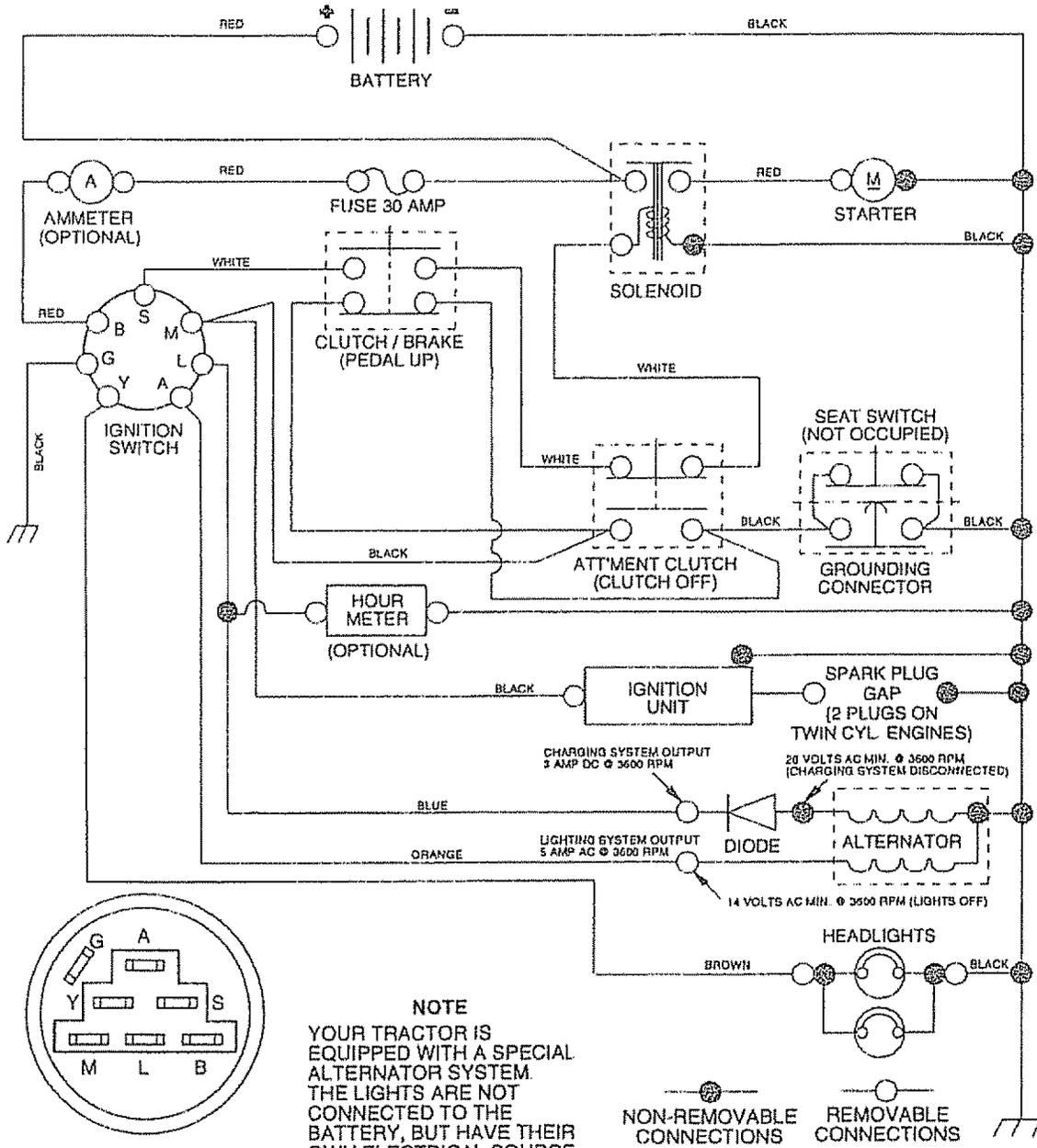
BRIGGS & STRATTON ENGINE-MODEL NUMBER 42E707, TYPE NUMBER 2631-E1

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---------|----------|--|---------|-------------|--|
| 227 | 491297 | Lever Assembly, Governor | 569 | 272645 | * Gasket, Base |
| 229 | 62199 | Washer | 572 | 224816 | Baffle, Air, Cylinder #2 |
| 230 | 223882 | Washer, Governor Crank, Inside | 573 | 491304 | Plate, Back |
| 235 | 224995 | Shield, Fuel Spray | 592 | 92278 | Nut, Hex. |
| 240 | 394358 | Filter, Fuel | 601 | 93053 | Clamp, Hose |
| 244 | 230318 | Connector, Fuel Line | 615 | 94296 | Retainer, E-Ring |
| 257 | 93897 | Screw, Sems | 615A | 263080 | Retainer |
| 284 | 94674 | Screw, Hex Head | 616 | 491530 | Crank, Governor |
| 284A | 94882 | Screw, Hex Head | 634 | 271013 | ** Washer, Throttle Shaft |
| 304 | 495469 | Housing, Blower, Red | 634A | 491287 | * Seal, Governor Shaft |
| 305 | 94786 | Screw, Sems | 635 | 66538 | Boot, Spark Plug |
| 306 | 222846 | Shield, Cylinder | 642 | 225008 | Cover, Air Cleaner |
| 306A | 223734 | Shield, Cylinder | 643 | 496700 | Plate, Air Cleaner |
| 307 | 94930 | Screw, Self-Tapping | 653 | 93585 | Screw, Hex Head |
| 308 | 224774 | Cover, Air Guide | 726 | 391362 | Gear, Ring |
| 308A | 224775 | Cover, Air Guide | | | (Includes Mounting Parts) |
| 309 | 497596 | Motor, Starter | 741 | 262989 | Gear, Timing |
| 310 | 94003 | Bolt, Thru | 783 | 280104 | Gear, Starter |
| 311 | 497608 | Brush Set | 801 | 394860 | Cap, Drive |
| 332 | 230674 | Nut, Hex | 802 | 497607 | Cap, End |
| 333 | 394891 | Armature, Magneto | 803 | 497604 | Housing, Starter |
| 334 | 94731 | Screw, Sems | 819 | 94675 | Screw, Hex Head |
| 337 | 802592 | Plug, Spark | 842 | 270920 | * Seal, Cap |
| 356 | 494705 | Wire, Stop | 847 | 495715 | Tube Assembly, Oil |
| 358 | 495868 | Gasket Set | 851 | 493880 | Terminal, Cable |
| 363 | 19203 | Flywheel Puller | 858 | 270989 | *** Diaphragm, Carburetor |
| 383 | 89838 | Wrench, Spark Plug | 859 | 271025 | *** Gasket, Pump |
| 391 | 280197 | Body, Pump | 860 | 261358 | *** Spring, Diaphragm |
| 392 | 261395 | *** Spring, Diaphragm | 861 | 393397 | Repair Kit, Pump |
| 394 | 272638 | *** Diaphragm, Carburetor | 868 | 497212 | Seat, Valve |
| 414 | 220680 | Washer | 869 | 261463 | Seat, Valve, Intake |
| 422 | 222875 | Bracket, Oil Fill | 870 | 213316 | Seat, Valve, Exhaust |
| 432 | 221377 | *** Cap, Spring | 871 | 261961 | Bushing, Guide (Exhaust Only) |
| 434 | 223688 | Cover, Diaphragm | | 231218 | Bushing, Guide (Intake, Brass) |
| 435 | 93829 | Screw, Diaphragm Cover | 877 | 393456 | Wire, Alternator |
| 445 | 394019 | Filter, Air | 881 | 495901 | Plate, Cover |
| 468 | 497908 | Screen, Rotating | 955 | 397882 | Plug and Seal, Solenoid |
| 474 | 393474 | Alternator | 1005 | 281053 | Fan, Flywheel |
| 482 | 93621 | Screw, | 1006 | 224901 | Retainer, Fan |
| 510 | 497606 | Drive, Starter | 1019 | 496726 | Label Kit |
| 523 | 494947 | Cap, Oil Fill | 1090 | 97605 | Retainer, Brush |
| 524 | 271157 | * Seal, Fill Tube | 2500 | 42E707-2631 | Replacement Engine |
| 525 | 495348 | Tube, Oil Fill (Includes Seals | — — | 498543 | Replacement Shortblock |
| 528 | 393815 | Hose, Vacuum | | | |
| 534 | 94823 | Screw, Air Cleaner | | | * Included in Gasket Set (495868) |
| 535 | 272490 | Filter, Air | | | ** Included in Carburetor Kit (491539) |
| 537 | 271411 | **** Gasket, Air Cleaner | | | *** Included in Carburetor Kit (491539), and Pump Repair Kit (393397) |
| 544 | 497603 | Armature, Starter | | | **** Included in Gasket Set (495868), and Carburetor Kit (491539) |
| 552 | 262332 | Lower Bushing, Governor | | | |
| 552A | 262331 | Upper Bushing, Governor | | | |
| 556 | 93585 | Screw, Hex Head | | | |
| 562 | 93853 | Bolt, Governor Lever | | | |
| 567 | 94811 | Screw, Hex Head, Back Plate to Cylinder | | | |

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

TRACTOR - - MODEL NUMBER 917.270820

SCHEMATIC



IGNITION SWITCH

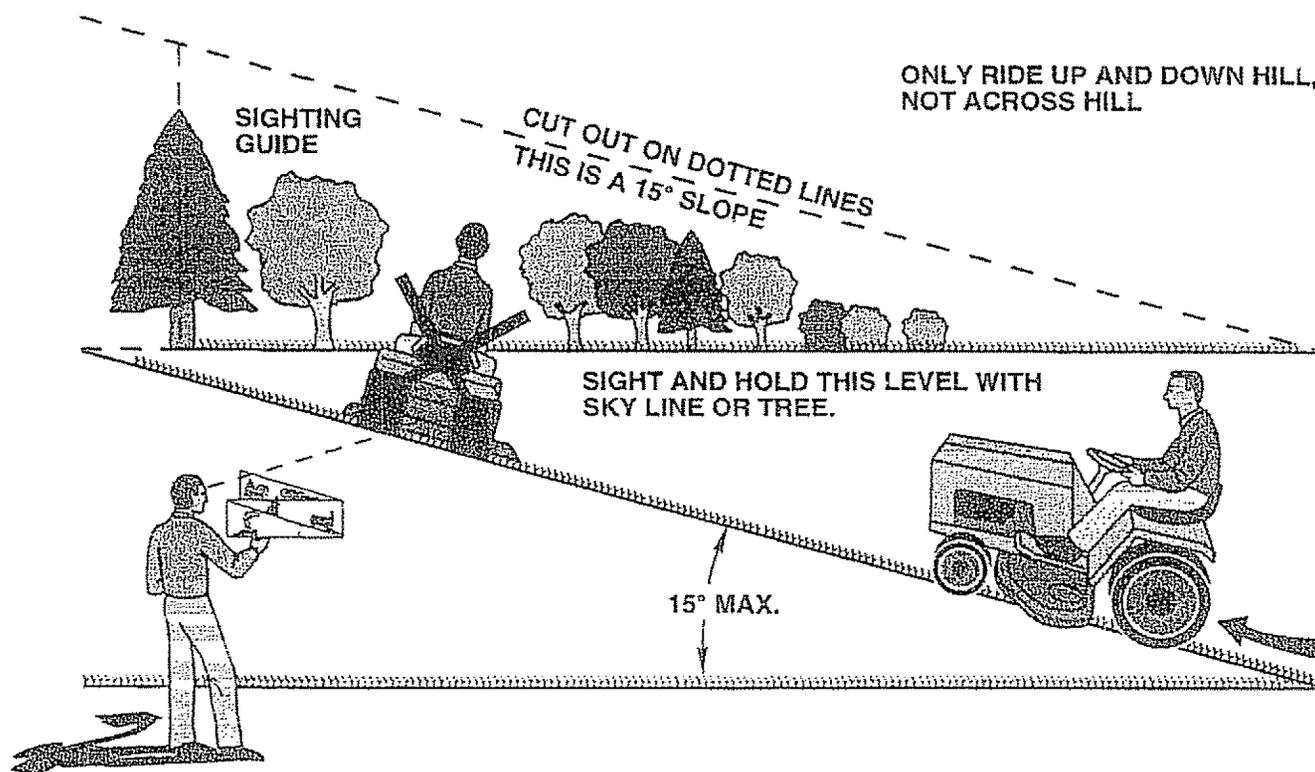
| POSITION | CIRCUIT | "MAKE" |
|-----------|-----------|--------|
| OFF | G + M + L | NONE |
| RUN/LIGHT | B + L | A + Y |
| RUN | B + L | NONE |
| START | B + L + S | NONE |

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

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

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

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



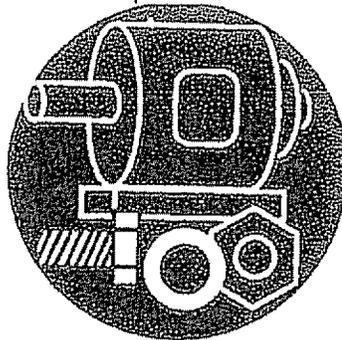
Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

For the repair or replacement parts you need delivered directly to your home
Call 7 am - 7 pm, 7 days a week

1-800-366-PART

(1-800-366-7278)

Para ordenar piezas con entrega a domicilio - 1-800-659-7084



For in-house major brand repair service
Call 24 hours a day, 7 days a week

1-800-4-REPAIR

(1-800-473-7274)

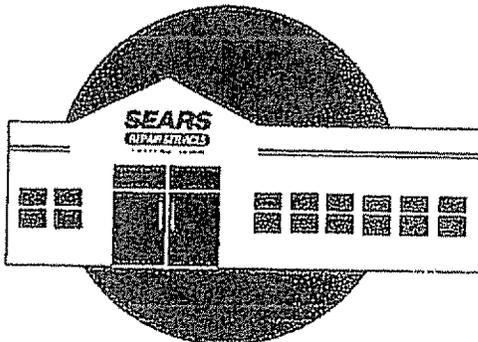
Para pedir servicio de reparación a domicilio - 1-800-676-5811



For the location of a Sears Parts and Repair Center in your area
Call 24 hours a day, 7 days a week

Call 24 hours a day, 7 days a week

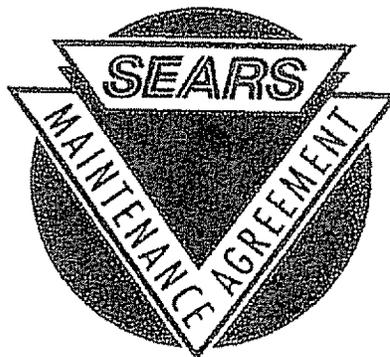
1-800-488-1222



For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement
Call 9 am - 5 pm, Monday-Saturday

Call 9 am - 5 pm, Monday-Saturday

1-800-827-6655



When requesting service or ordering parts, always provide the following information:

- Product Type
- Part Number
- Model Number
- Part Description

SEARS
REPAIR SERVICES

America's Repair Specialists