

MODEL NO. 944.602890





CRAFTSMAN®

20.0 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

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

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

III. CHILDREN

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

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

IV. SERVICE

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

SAFETY RULES Safe Operation Practices for Ride-On Mowers





- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- 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.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- 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 ALERT!!! YOUR SAFETY IS IN-VOLVED.



CAUTION: Do not coast down a hill in neutral, you may lose control of the tractor.



CAUTION: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. 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.



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.

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PRODUCT SPECIFICATIONS

| GASOLINE CAPACITY AND TYPE: | 3.5 GALLONS UNLEADED REGULAR |
|---|--|
| OIL TYPE (API-SF-SJ): | SAE 30 (above 32°F) SAE 5W-30 (below 32°F) SYNTHETIC (below 0°F) |
| Your tractor was shipped from 10W-30 motor oil. | the factory with non-synthetic SAE |
| OIL CAPACITY: | W/FILTER: 4.0 PINTS WO/FILTER: 3.75 PINTS |
| SPARK PLUG: (GAP: .040") | CHAMPION RC12YC |
| GROUND SPEED (MPH): | FORWARD: 5.5 REVERSE: 2.4 |
| TIRE PRESSURE: | FRONT: 14 PSI REAR: 10 PSI |
| CHARGING SYSTEM: | 3 AMPS BATTERY 5 AMPS HEADLIGHTS |
| BATTERY: | AMP/HR: 28 MIN. CCA: 230 CASE SIZE: U1R |
| BLADE BOLT TORQUE: | 27-35 FT. LBS. |

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

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

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

A spark arrester for the muffler is available through your nearest authorized service center/department (See RE-PAIR PARTS section of this manual).

CONGRATULATIONS on your purchase of a new 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 authorized service center/ department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

WARRANTY

LIMITED TWO (2) YEAR WARRANTY ON CRAFTSMAN TRACTOR (RIDING EQUIPMENT)

For two (2) years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

FULL ONE (1) YEAR WARRANTY ON BATTERY

For one (1) year 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.

COMMERCIAL OR RENTAL USE

Warranty on Riding Equipment used for commercial or rental purposes is limited to ninety (90) days.

This Warranty does NOT cover:

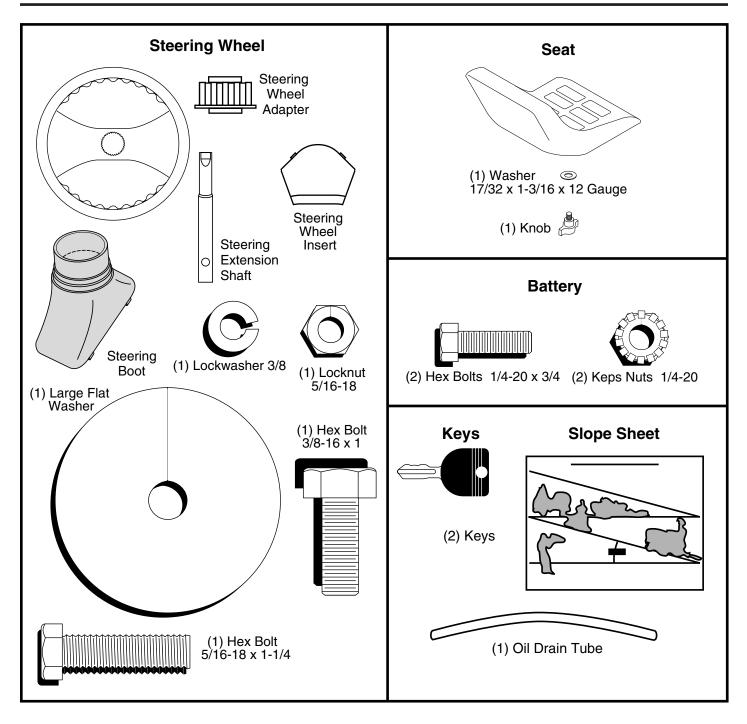
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse or negligence, including damaged jackshaft or mandrel and the failure to operate and maintain the equipment according to the instructions contained in the Owner's Manual.
- 5. In Home service.

Warranty service is available by returning the Craftsman Riding Equipment to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is in use in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

SEARS CANADA, INC., TORONTO, ONTARIO M5B 2B8

UNASSEMBLED PARTS



ASSEMBLY

Your new tractor has been assembled at the factory with exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (2) 7/16" wrenches(2) 1/2" wrenches

Tire pressure gauge Utility knife

Pliers

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

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.
- Remove steering wheel adapter from steering wheel and slide 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.

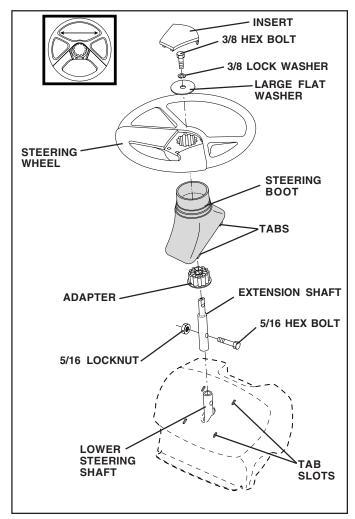


FIG. 1

HOW TO SET UP YOUR TRACTOR

CONNECT BATTERY (See Fig. 2)



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.

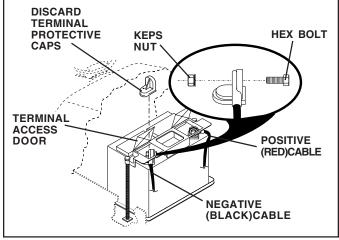
Positive terminal must be connected first to prevent sparking from accidental grounding.

ASSEMBLY

- 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 and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps 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 adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolts are positioned over the large slotted holes in pan.
- Push down on seat to engage shoulder bolts in slots and pull seat towards rear of tractor.
- Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit in seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

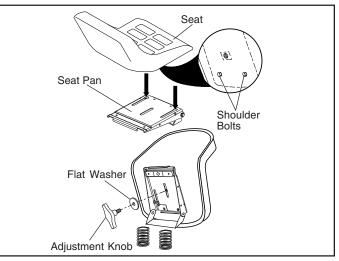


FIG. 3

NOTE: You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the 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 "TOTRANSPORT" in the Operation section of this manual).
- Roll tractor forward off skid.
- Remove banding holding deflector shield up against tractor.

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

AWARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place motion control lever in neutral position.
- Turn ignition key to "OFF" position.
- 7 Continue with the instructions that follow.

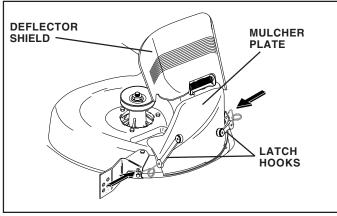
ASSEMBLY

INSTALL MULCHER PLATE (If previously removed) (See Fig. 4)

- 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 deflector shield from mower. Raise and hold shield 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.

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" section of this manual.

CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TOLEVEL 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

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

- \checkmark 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 freewheel 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).

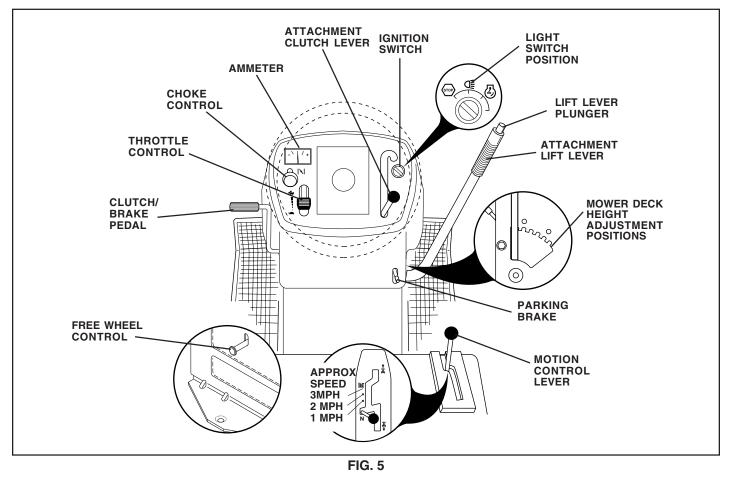
These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



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.

THROTTLE CONTROL: Used to control engine speed. **CHOKE CONTROL**: Used when starting a cold engine.

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

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

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

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

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

ATTACHMENT LIFT LEVER: Used to raise, lower, and adjust 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.



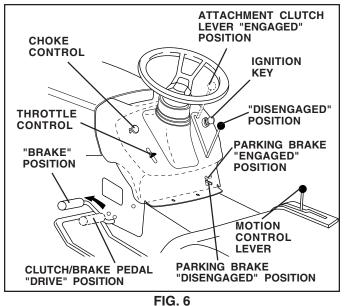
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 6)

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

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



STOPPING (See Fig. 6)

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.

IMPORTANT: LEAVING THE IGNITION SWITCH IN ANY POSITION OTHER THAN "OFF" WILL CAUSE THE BATTERY TO BE DISCHARGED, (DEAD).

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



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

TO USE THROTTLE CONTROL (See Fig. 6)

Always operate engine at full throttle.

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

TO USE CHOKE CONTROL (See Fig. 6)

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

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

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

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.
- Slowly move motion control lever to desired position.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.

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

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

TO ADJUST GAUGE WHEELS (See Fig. 7)

Gauge wheels are properly adjusted when they are slightly off the ground when mower is at the desired cutting height in operating position. Gauge wheels then keep the deck in proper position to help prevent scalping in most terrain conditions.

NOTE:Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height (See "TO AD-JUST MOWER CUTTING HEIGHT" in the Operation section of this manual).
- With mower in desired height of cut position, gauge wheels should be assembled so they are slightly off the ground. Install gauge wheel in appropriate hole with shoulder bolt, 3/8 washer, and 3/8-16 locknut and tighten securely.
- Repeat for opposite side installing gauge wheel in same adjustment hole.

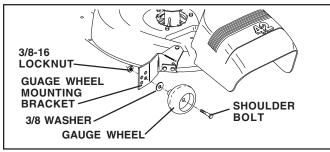


FIG. 7

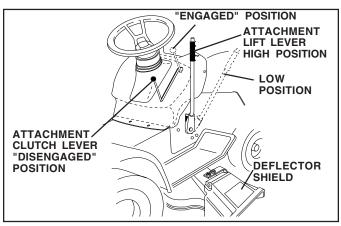
TO OPERATE MOWER (See Fig. 8)

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.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



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



TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move 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 (See Figs. 5 and 9)

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

- Raise attachment lift to highest position with attachment lift control.
- Pull freewheel control out and down into the slot and release so it is held in the disengaged position.
- 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.).

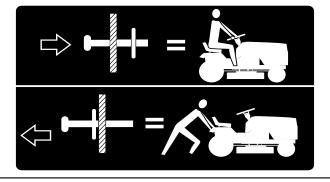


FIG. 9

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 Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

ADD GASOLINE

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

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

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



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

TO START ENGINE (See Fig. 5)

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 warmup period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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

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. Shutoff 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 now ready for normal operation.

MOWING TIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

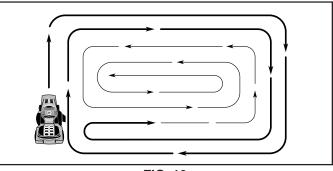


FIG. 10

MULCHING MOWING TIPS

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 11). For extremely heavy mulching, reduce your width of cut 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.

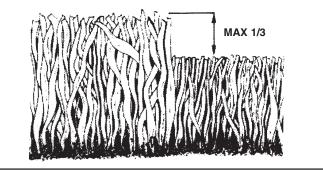


FIG. 11

| AS | MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE | E | SEFORE | EACHUS VERY 8 | SE HOURS | SHOUR | SHOUP VERY | NERV P | RS SEASON SEFORE | SERVIC | CE DATES |
|--------|--|---|---------------|-----------------------|-------------|---|---------------|----------|------------------------|--------|----------|
| | Check Brake Operation | ~ | V | | | | | | | | |
| | Check Tire Pressure | ~ | / | | | | | | | | |
| Т | Check Operator Presence and Interlock Systems | ~ | | | | | | | | | |
| R | Check for Loose Fasteners | ~ | | | | V 5 | | / | | | |
| A C | Sharpen/Replace Mower Blades | | | V ₃ | | | | | | | |
| ĬŤ | Lubrication Chart | | | ~ | | | | V | | | |
| İ | Check Battery Level | | | 4 | | | | | | | |
| R | Clean Battery and Terminals | | | ~ | | | | / | | | |
| | Check Transaxle Cooling | | | ~ | | | | | | | |
| | Check V-Belts | | | | | / | | | | | |
| | Check Engine Oil Level | ~ | ~ | | | | | | | | |
| | Change Engine Oil (with oil filter) | | | | 1 ,2 | 2 | | V | | | |
| E | Change Engine Oil (without oil filter) | | | 1 ,2 | 2 | | | ~ | | | |
| N | Clean Air Filter | | | \checkmark_2 | | | | | | | |
| Ģ | Clean Air Screen | | | \checkmark_2 | | | | | | | |
| N N | Inspect Muffler/Spark Arrester | | | | V | | | | | | |
| Ē | Replace Oil Filter (If equipped) | | | | | 1,2 | | | | | |
| 1- | Clean Engine Cooling Fins | | | | | 2 | | | | | |
| | Replace Spark Plug | | | | | V | ~ | | | | |
| | Replace Air Filter Paper Cartridge | | | | | V 2 | | | | | |
| | Replace Fuel Filter | | | | | | / | | | | |

 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.

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

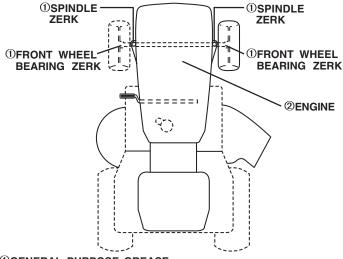
- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

3 - Replace blades more often when mowing in sandy soil.

4 - Not required if equipped with maintenance-free battery.

5 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

LUBRICATION CHART



①GENERAL PURPOSE GREASE ②REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRI-CANTS 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, POW-DERED 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" section 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.

OPERATOR PRESENCE SYSTEM

Be sure operator presence and interlock systems are working properly. If your tractor does not function as described, repair the problem immediately.

- The engine should not start unless the brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

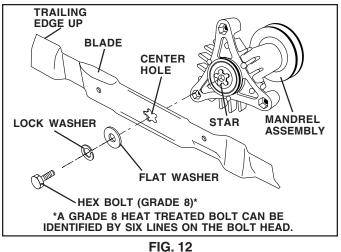
BLADE REMOVAL (See Fig. 12)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

IMPORTANT: TO ENSURE PROPER ASSEMBLY, CENTER HOLE IN BLADE MUST ALIGN WITH STAR ON MANDREL ASSEMBLY.

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.



TO SHARPEN BLADE (See Fig. 13)

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 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 on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

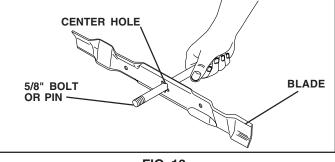


FIG. 13

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.

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

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. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

- 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/department.

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature. When operating in temperatures below 0° F (-18° C) synthetic oil must be used.

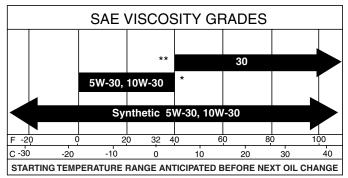


FIG. 14

* **CAUTION:** Air cooled engines run hotter than automotive engines. The use of non-synthetic multi-viscosity oils (5W30, 10W30 etc.) in temperatures above 40° F (4° C) will result in higher than normal oil consumption. When using a multi-viscosity oil, check oil level more frequently.

** **CAUTION:** SAE 30 oil, if used below 40° F (4° C), will result in hard starting and possible engine bore damage due to inadequate lubrication.



NOTE: Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol (shown at left) with "SJ/CF ENERGY CONSERVING" or higher, is an acceptable oil at all temperatures. Use of synthetic oil does not alter required oil change intervals.

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 (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- 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 yellow cap from bottom fitting of drain valve and install the drain tube onto the fitting.

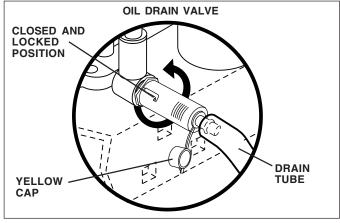


FIG. 15

- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the bottom fitting of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section 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.

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

AIR FILTER (See Fig. 16)

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

Service air cleaner more often under dusty conditions.

- Remove knobs and cover.
- TO SERVICE PRE-CLEANER
- 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.

TO SERVICE CARTRIDGE

- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall precleaner cartridge, cover and secure with knobs.

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.

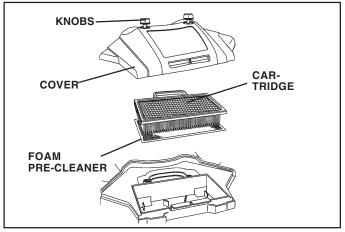


FIG. 16

MUFFLER

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

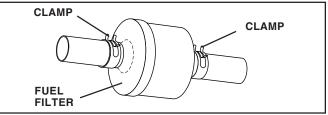
SPARK PLUGS

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" section of this manual.

IN-LINE FUEL FILTER (See Fig. 17)

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

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





CLEANING

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

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



- CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:
- Depress clutch/brake pedal fully and set parking brake.
 - Place 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.

TRACTOR TO REMOVE MOWER (See Fig. 18)

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.
- Remove small retainer spring, and lift clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- 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.

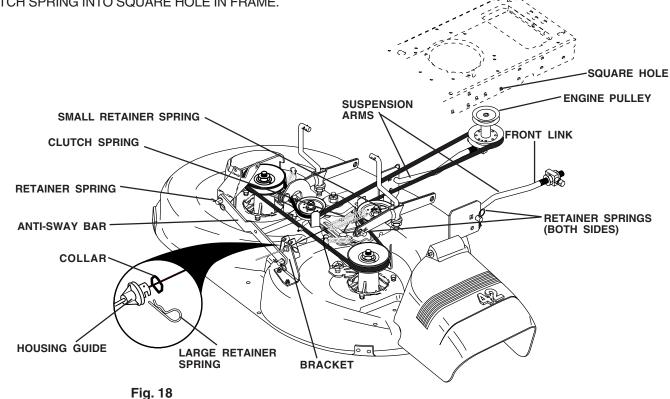
IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRAC-TOR, REMOVE THE FRONT LINKS AND HOOK THE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.

TO INSTALL MOWER (See Fig. 18)

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with deflector shield to right side of tractor.
- Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs..
- Connect suspension arms to rear deck brackets and secure with retainer springs.
- Connect anti-swaybar to chassis bracket and secure with retainer spring.
- Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.
- Install belt onto engine pulley.

TO LEVEL MOWER HOUSING

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



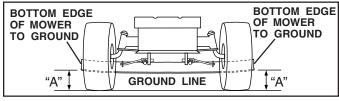
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SIDE-TO-SIDE ADJUSTMENT (See Figs. 19 and 20)

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

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

Recheck measurements after adjusting.





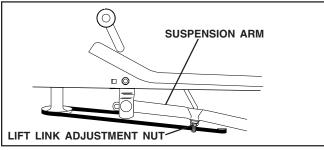


FIG. 20

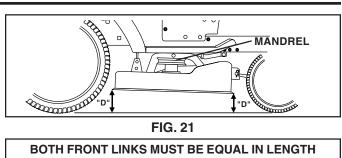
FRONT-TO-BACK ADJUSTMENT (See Figs. 21 and 22)

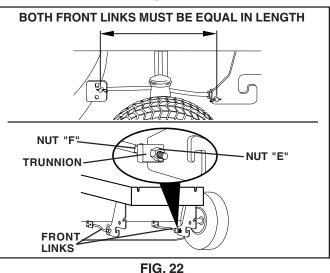
IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

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

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

- Before making any necessary adjustments, check that both front links are equal in length.
- 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.





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

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.

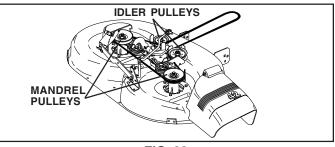


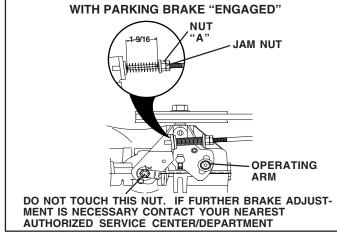
FIG. 23

TO ADJUST BRAKE (See Fig. 24)

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 on a level dry concrete or paved surface, 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.

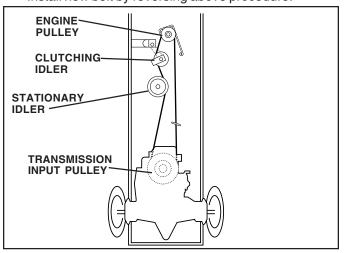




TO REPLACE MOTION DRIVE BELT (See Fig. 25)

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove 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.



TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 26)

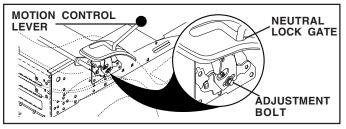
The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.





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 TRANSMIS-SION" 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/department.

TO REMOVE WHEEL FOR REPAIRS (See Fig. 27)

- 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.

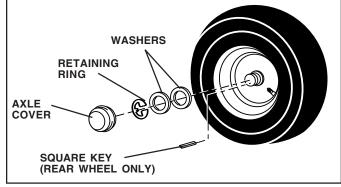


FIG. 27

TO START ENGINE WITH A WEAK BATTERY (See Fig. 28)

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

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

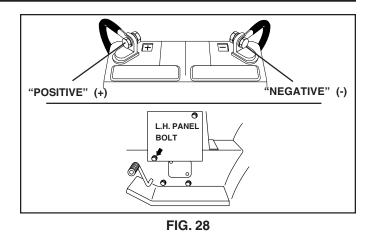
IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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



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.

TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 29)

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

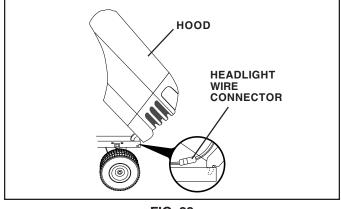


FIG. 29

ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers 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 (See Fig. 30)

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 stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL (See Fig. 31)

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.
- Loosen knob and remove cover assembly from air cleaner.
- 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.
- Replace air cleaner cover assembly and tighten knob.

TO ADJUST CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your tractor to an authorized service center for repair and/or adjustment.

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

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

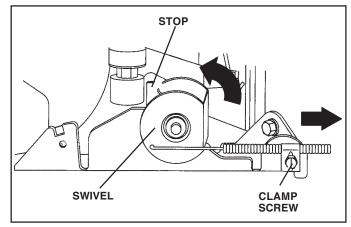


FIG. 30

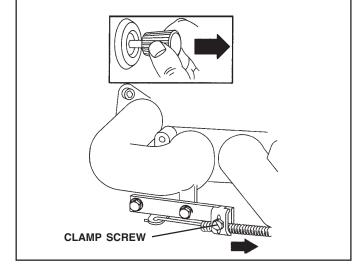


FIG. 31

STORAGE

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



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

TRACTOR

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

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

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.

• If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

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

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

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

ENGINE OIL

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

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

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

TROUBLESHOOTING POINTS

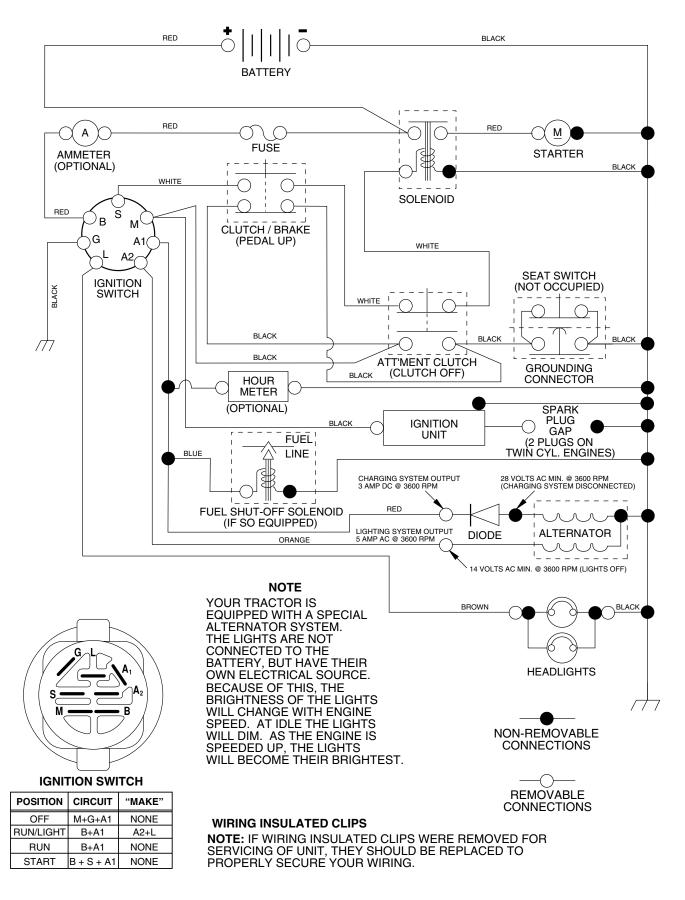
| PROBLEM | CAUSE | CORRECTION |
|----------------------------------|--|--|
| Will not start | Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. | 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 Adjustments section. Contact an authorized service center/department. |
| Hard to start | 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. | 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 Adjustments section. Contact an authorized service center/department. |
| Engine will not turn over | 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). | 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/department. |
| Engine clicks but will not start | Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. | Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter. |
| Loss of power | Cutting too much grass/too fast. Throttle in "CHOKE" position. 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. | Set in "Higher Cut" position/reduce speed. Adjust throttle control. 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/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department. |
| Excessive vibration | Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). | Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts. |

TROUBLESHOOTING POINTS

| PROBLEM | CAUSE | CORRECTION |
|---|---|--|
| Engine continues to run when operator leaves seat with attachment clutch engaged | 1. Faulty operator-safety presence control system. | Check wiring, switches and connections. If not corrected, contact an authorized service center/ department. |
| Poor cut - uneven | 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. | 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 | Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. | Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel. |
| Poor grass discharge | Engine speed too slow. Travel speed too fast. Wet grass. 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. | Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. 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) | Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. | Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse. |
| Battery will not charge | Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. | Replace battery. Check/clean all connections. Replace regulator. Replace alternator. |
| Loss of drive | Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing. | Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. |
| Engine "backfires" when turning engine "OFF" | Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. | Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine. |

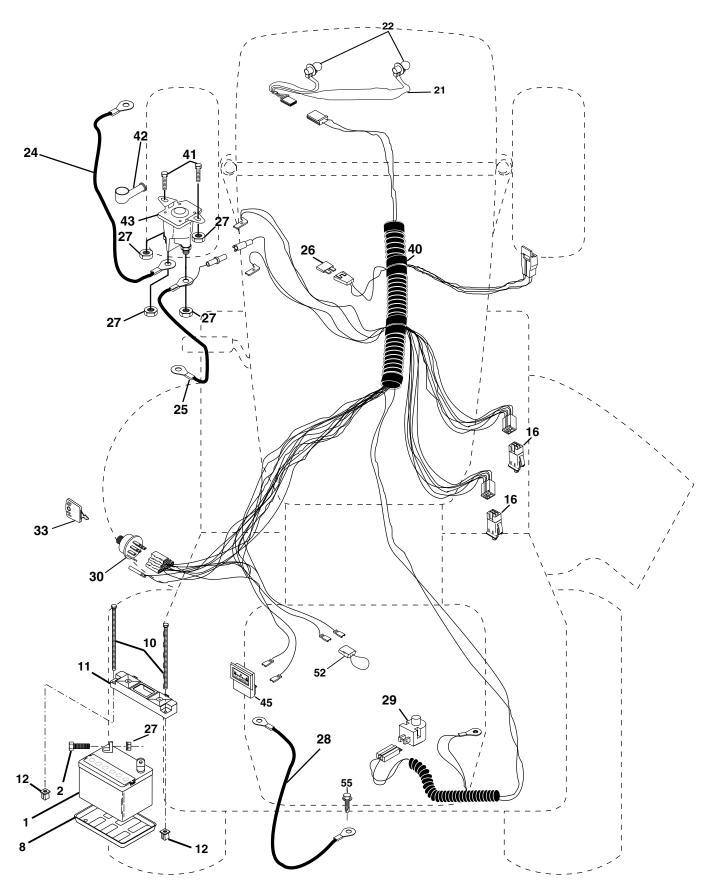
TRACTOR - - MODEL NUMBER 944.602890

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.602890

ELECTRICAL



TRACTOR - - MODEL NUMBER 944.602890

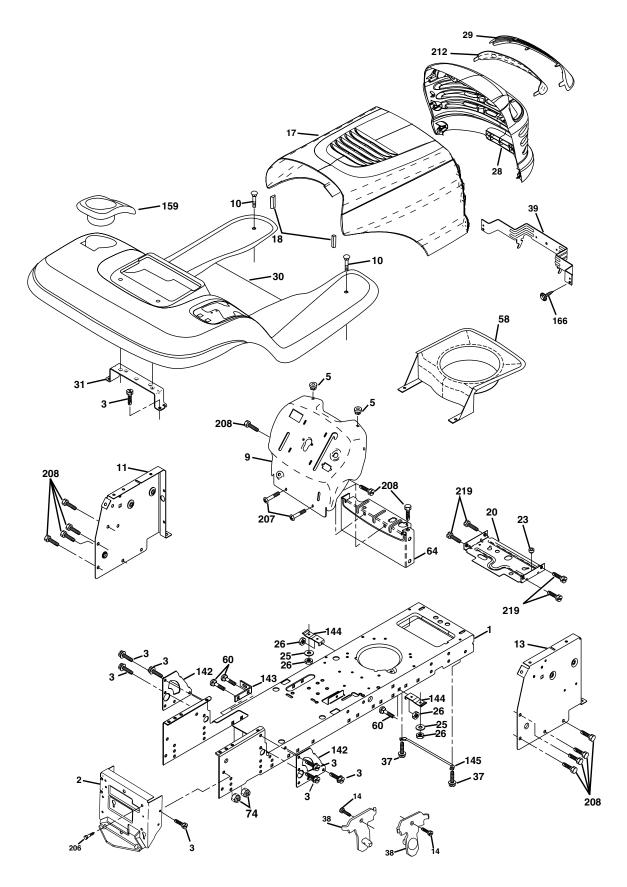
ELECTRICAL

| KEY NO. | PART NO. | DESCRIPTION |
|-------------------------------|---|--|
| 1 2 8 10 11 12 | 163465 74760412 7603J 145211 150109 145769 | Battery 12 Volt 28 Amp Bolt Hex Hd 1/4-20unc X 3/4 Tray Battery Bolt Btr Frt 1/4-20 x 7.5 Zinc Holddown Battery Mount Nut Push Nylon 1/4" Battery Frt |
| 16 21 | 176138 175688 | Switch Interlock Harness Asm Light W/4152J |
| 22 | 4152J | Bulb Light #1156 |
| 24 25 | 4799J 146148 | Cable Battery 6 Ga 11"red Cable Battery 6 Ga w/16 ire,red |
| | 175158 | Fuse |
| | 73510400 145491 | Nut Keps Hex 1/4-20 Unc Cable Ground 6 Ga 21" black |
| 29 | 121305X | Switch Plunger Nc Gray |
| | 175566 140403 | Switch Ign 3 Key Ign |
| 40 | 179720 | HarnessIgn |
| 41 42 | 71110408 131563 | Bolt Blk Fin Hex 1/4-20unc X 1/2 Cover Terminal Red |
| 43 | 178861 | Solenoid |
| 45 52 | 121433X 141940 | Ammeter Protection Wire Leon (Hourmotor) |
| 52 55 | 17490508 | Protection Wire Loop (Hourmeter) Screw Thdrol 5/16-18 x 1/2 |

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

TRACTOR - - MODEL NUMBER 944.602890

CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 944.602890

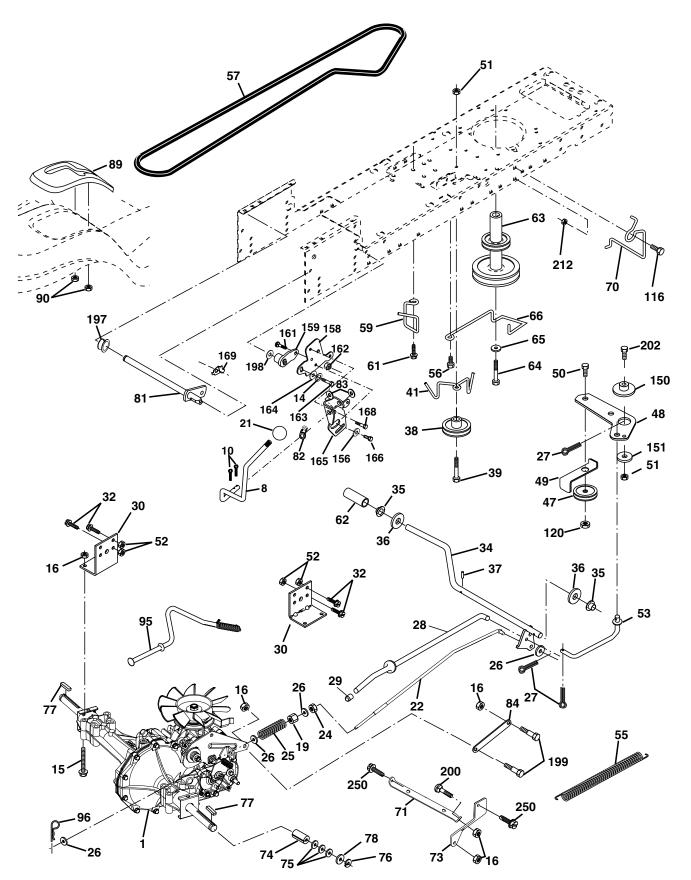
CHASSIS AND ENCLOSURES

| Key No. | Part No. | DESCRIPTION |
|--|---|--|
| 1 2 3 5 9 10 11 13 14 17 18 20 23 25 26 28 29 30 31 37 38 39 58 60 64 74 142 143 144 159 166 207 208 212 219 | 174619 176554 17060612 155272 168337X011 STD533710 174996 172105X010 17490608 174330X558 126938X 180679 124028X 19131312 STD541437 175049 174332X599 175692X558 139976 17490508 175710 174714 17490508 175710 174714 174930 STD533707 154798 STD541437 175702 154966 175582 156524 155123X428 164863 170165 17670508 17670508 17670508 17670608 175143 17000512 5479J | Chassis Stl Stamping Drawbar, Stretch Screw 3/8-16x3/4 Bumper Hood/Dash Dash P/L Bolt Carriage 3/8-16 x 1 Panel Dash Lh Panel Dash Rh Screw Thdrol 3/8-16 x 1/2 Hood Bumper Hood Plate Mtg. Battery Fuel Tank Bushing Washer 13/32 X 13/16 X 12 Ga Nut Lock Hex W/Ins 3/8-16 Unc Grille/Lens Asm Lens Fender Footrest STLT Pnt Bracket Support Fender Screw Thdrol 5/16-18 X1/2 Bracket Asm. Pivot Mower Rear Bracket Pivot Laser LT Air Duct P/L Bolt Rdhd Sqnk 3/8-16 Unc Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Pnt Footrest STLT Rod Pivot Chassis/Hood Cupholder Screw HWHD Hi-Lo #13-16 x 3/4 Bolt Shoulder 5/16-18 TT Screw Thdrol 5/16-18 x 1/2 Screw Thdrol 3/8-16 x 1/2 Insert Lens Reflective Screw 5/16-18 x 3/4 Plug Button |

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

TRACTOR - - MODEL NUMBER 944.602890

DRIVE



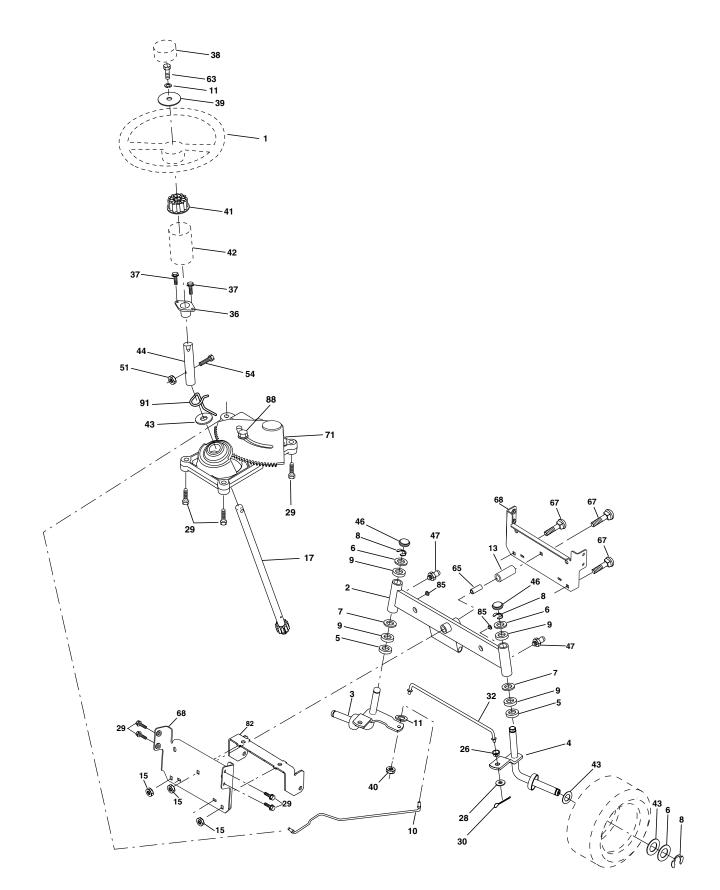
TRACTOR - - MODEL NUMBER 944.602890

DRIVE

| KEY PART NO. NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|---|--|---|---|---|
| 1 8 165866 10 STD561210 14 10040400 15 74490544 16 STD541431 19 STD541437 21 130564 22 169498 24 STD541273 25 106888X 26 STD551037 27 STD561210 28 175765 29 71673 30 169592 | Transaxle (See Breakdown) Hydro Gear Model 314-0510 Rod Shift Pin Cotter 1/8 x 1 CAD Washer Lock Hvy. Helical Bolt, Hex FLGHD 5/16-18 Gr. 5 Nut Lock Hex W/Ins 5/16-18 Unc Nut Lock Hex W/Wsh 3/8-16 Unc nob, Deluxe 1/2-13 Rod, Brake Hydro Nut Spring, Brake Rod Washer Pin Cotter 1/8 x 3/4 CAD. Rod, Parking Brake Cap, Parking Brake Bracket, Transaxle | 66 70 71 73 74 75 76 77 78 81 82 83 84 89 90 95 96 | 154778 134683 169183 169182 137057 121749X STD581075 123583X 121748X 165596 165711 19171216 169594 164890X428 124346X 170201 STD624003 | Keeper Belt Engine Keeper Belt Engine Strap Torque Lh Hydro Spacer, Split Washer 25/32 x 1-1/4 x 16 Gauge E-Ring Key, Square Washer 25/32 x 1-5/8 x 16 Gauge Shaft Asm. Cross Spring Torsion Washer 17/32 x 3/4 x 16 Ga. Link, Transaxle Console, Shift Nut Self Thd Wsh-Hd 1/4 Zinc Control Asm Bypass Hydro Retainer Spring 1" Zinc/Cad |
| 32 STD523107 34 175578 35 120183X 36 STD551062 37 STD571810 38 179114 39 74760648 41 175556 47 127783 48 154407 49 123205X 50 STD541437 52 STD541431 53 105710X 55 105709X 56 17060620 57 140294 59 169691 61 17120614 62 883R 63 175410 64 71170764 65 STD551143 | Bolt Hex Hd 5/16-18 Unc x 3/4 Shaft, Foot Pedal Nibbed Bearing, Nylon Washer Pin, Roll Pulley, Idler, Flat Composite Bolt Fin Hex 3/8-16unc x 3 Keeper, Belt Retainer Pulley, Idler, V-Groove Bellcrank Clutch Grnd Drv STL Retainer, Belt Bolt Nut Crownlock 3/8-16 UNC Nut Crownlock 5/16-18 UNC Link, Clutch Spring, Return, Clutch Screw 3/8-16 x 1-1/4 V-Belt, Ground Drive Keeper, Center Span Screw 3/8-16 x .875 Cover, Pedal Pulley, Engine Bolt, Hex Washer | 116 120 151 150 156 158 159 161 162 163 164 165 166 168 169 197 198 199 200 202 212 250 NOTI | 72140608 73900600 19133210 175456 166002 165589 165494 72140406 73680400 74780416 19091010 165623 166880 165492 165580 169613 169613 169593 169612 72140508 72110614 145212 17060612 E: All component 1 inch = 25 | Bolt Rdhd Sq. Neck 3/8-16 x 1 Nut Lock Flg 3/8-16 UNC Washer 13/32 x 2 x 10 Ga. Spacer Retainer Washer Srrted 5/16 ID x 1 x .125 Bracket Shift Mount Hub Tapered Flange Shift LT Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5 Nut Crownlock 1/4-20 Unc Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5 Washer 5/8 x .281 x 10 Ga. Bracket Pivot Lever Screw 5/16-18 x 5/8 Bolt Shoulder 5/16-18 x .561 Plate Fastening LT Nyliner Snap-In 5/8" ID Washer Nyl 7/8" ID x .105" Bolt Shoulder 5/16-18 Unc Bolt Rdhd Sqnk 5/16-18 Unc x 1 Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5 Nut Hex Flange Lock Screw 3/8-16 x 3/4 ent dimensions given in U.S. inches |

TRACTOR - - MODEL NUMBER 944.602890

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 944.602890

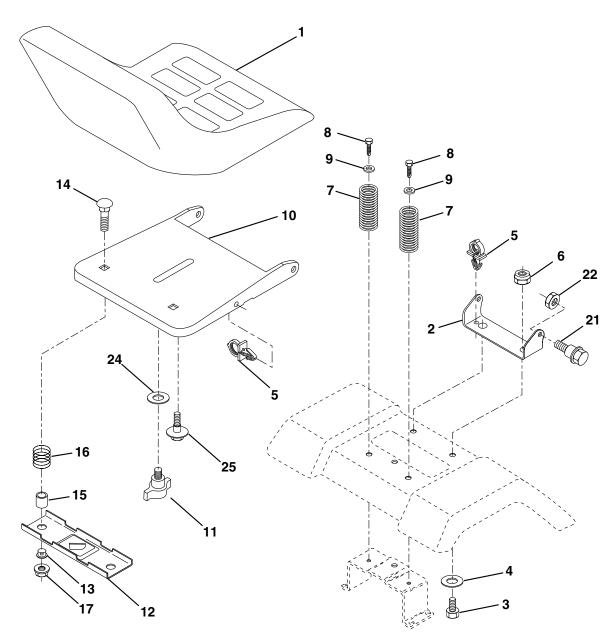
STEERING ASSEMBLY

| KEY NO. | Part No. | DESCRIPTION |
|--|---|--|
| $\begin{array}{c}1\\2&3\\4&5\\6&7\\8&9\\1&1&1&3\\1&1&1&2&2&2&3&3&3&3&3&4&4&4&4&4&5&5&6&6&7&8&2&8&8&9\\1&1&1&1&1&1&1&2&2&2&2&3&2&3&3&3&3&4&4&4&4&4&4&4&4&4&4$ | 139768 175131 169840 169839 6266H 121748X 19272016 12000029 3366R 175121 STD551137 136518 145212 177876 126847X 19131416 17060612 STD561210 130465 155099 152927 139769 19133812 STD541537 100711L 145054X428 121749X 153720 121232X 6855M STD541431 STD523112 STD541431 STD523710 160367 72140618 169827 175146 169835 133835 175118 175553 | Wheel Steering Axle Asm Spindle Asm LH Spindle Asm RH Bearing Race Thrust Harden Washer 25/32 X 1-5/8 X 16 Ga Washer 27/32 X 1-1/4 X 16 Ga Ring Klip #t5304-75 Bearing Col Strg Blk Link Drag Extended Stamp Washer Lock Hvy HIcl Spr 3/8 Bearing Axle STLT/GT Nut Hex Flange Lock Shaft Asm Strg Bushing Link Drag Blk LR Washer 13/32 X 7/8 X 16 Ga Screw Thdrol 3/8-16x3/4 Pin Cotter 1/8 X 3/4 Cad Rod Tie Wire Form 19 75 Mech Bushing Strg Screw Insert Cap Strg Wh Au Washer 13/32 X 2-3/8 X 12 Ga Lock nut Adaptor Wheel Strg Boot Steering Shaft Washer 25/32 X 1 1/4 X 16 Ga Extension Steering Shaft LR/LT Cap Spindle Fr Top Blk Fitting Grease Nut Lock Hex w/Ins 5/16-18 Bolt Fin Hex 5/16-18 Unc x 1-1/4 Bolt Fin Hex 3/8-16 Unc x 2-1/4 Axle, Brace Steering Asm Bracket Susp. Chassis Front Fastener Christmas Tree Shoulder Bolt 7/16-20 Clip Steering |

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

TRACTOR - - MODEL NUMBER 944.602890

SEAT ASSEMBLY



| KEY NO. | part No. | DESCRIPTION |
|------------|-------------|--------------------------------|
| 1 | 140123 | Seat |
| 2 | 140551 | Bracket Pivot Seat 8 720 |
| 3 | 71110616 | Bolt Fin Hex 3/8-16unc X 1 |
| 4 | 19131610 | Washer 13/32 X 1 X 10 Ga |
| 5 | 145006 | Clip Push-In |
| 6 | STD541437 | Nut Hex w/Ins. 3/8-16 Unc |
| 7 | 124181X | Spring Seat Cprsn 2 250 Blk Zi |
| 8 | 17000616 | Screw 3/8-16 X 1-1/2 |
| 9 | 19131614 | Washer 13/32 X 1 X 14 Ga. |
| 10 | 174894 | Pan Seat |
| 11 | 166369 | Knob Seaat 1/2-13 Unc Blk |
| 12 | 121246X | Bracket Mounting Switch |

| Key No. | Part No. | DESCRIPTION | | |
|--|-------------|--------------------------------|--|--|
| 13 | 121248X | Bushing Snap Blk Nyl 50 ld | | |
| 14 | 72050412 | Bolt Rdhd Sqnk 1/4-20x1-1/2 | | |
| 15 | 134300 | Spacer Split 28x 96 Yel Zinc | | |
| 16 | 121250X | Spring Cprsn 1 27 Blk Pnt | | |
| 17 | 123976X | Nut Lock 1/4 Lge Flg Gr 5 Zinc | | |
| 21 | 171852 | Bolt Shoulder 5/16-18 Unc | | |
| 22 | STD541431 | Nut Hex Lock W/Ins 5/16-18 | | |
| 24 | 19171912 | Washer 17/32 X 1-3/16 X 12 Ga. | | |
| 25 | 127018X | Bolt Shoulder 5/16-18 X 62 | | |
| NOTE: All component dimensions given in LLS inches | | | | |

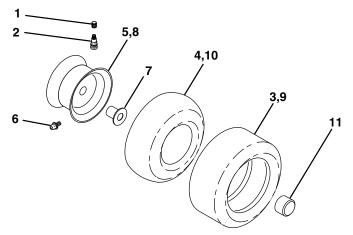
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.602890

DECALS <u>0</u> 6 -14-L

| KEY | PART | RECORDETION | KEY | PART | RECORDENCE |
|-----|--------|-----------------------------|-----|------------|--------------------------------|
| NO. | NO. | DESCRIPTION | NO. | NO. | DESCRIPTION |
| 1 | 157032 | Decal Fend STLT Oper | 12 | 172331 | Decal Deck |
| 2 | 138047 | Decal Battery Diehard Sears | 13 | 169210 | Decal By Pass |
| 3 | 177278 | Decal Hood RH | 14 | 160396 | Decal V-Belt Schematic |
| 4 | 177279 | Decal Hood LH | 15 | 182109 | Decal Replacement Parts |
| 5 | 179128 | Decal, Deck "B" "42" | 16 | 146046 | Decal V-Belt Drive Sch |
| 6 | 181659 | Decal HP Engine | 20 | 149517 | Decal Bat Dan/Psn |
| 7 | 177284 | Decal Dash Pnl B&S | | 165800X428 | Pad Footrest LH STLT |
| 8 | 170563 | Decal Warning Mult-Language | | 165799X428 | Pad Footrest RH STLT |
| 9 | 163204 | Decal Craftsman | | 138311 | Decal Handle Lft Height Adjust |
| 10 | 157140 | Decal Fender Danger Eng/Fr | | 182309 | Manual Owner's (English) |
| 11 | 177253 | Decal Hood Side Panel | | 182310 | Manual Owner's (French) |

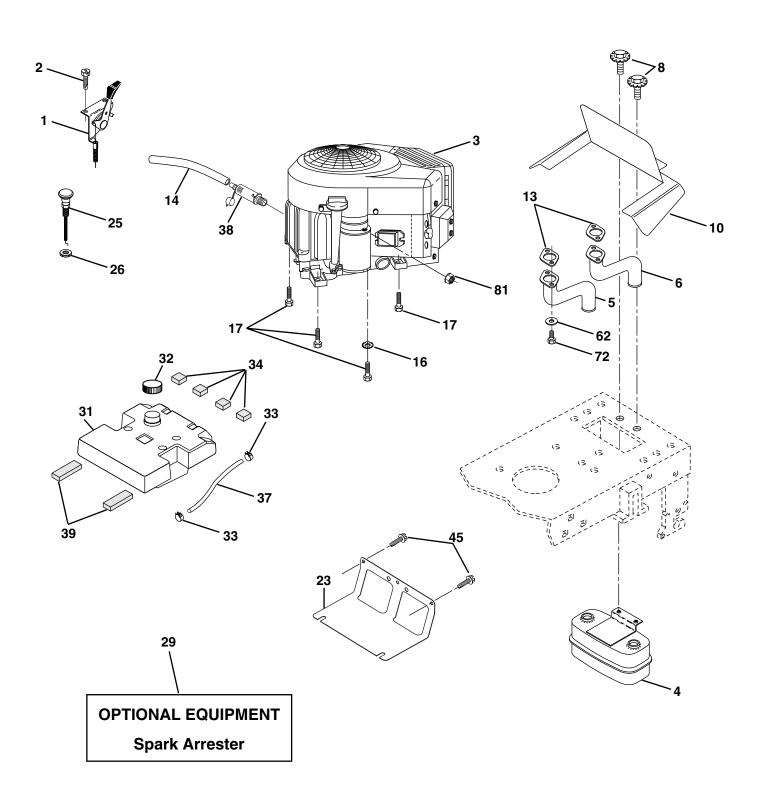
WHEELS & TIRES



| KEY | PART | | | | |
|--|------------------|-----------------------------------|--|--|--|
| NO. | NO. | DESCRIPTION | | | |
| 1 | 59192 | Cap Valve Tire | | | |
| 2 | 65139 | Stem Valve | | | |
| 3 | 106222X | Tire F Ts 15 X 6 0 - 6 Service | | | |
| 4 | 59904 | Tube Front (Service Item Only) | | | |
| 5 | 106732X427 | Rim Asm 6"front Service | | | |
| 6 | 278H | Fitting Grease (Front Wheel Only) | | | |
| 7 | 9040H | Bearing Flange (Front Wheel Only) | | | |
| 8 | 106108X427 | Rim Asm 8"rear Service | | | |
| 9 | 122082X | Tire R Ts 20x10-8 C Service | | | |
| 10 | 7152J | Tube Rear (Service Item Only) | | | |
| 11 | 104757X428 | Cap Axle Blk 1 50 X 1 00 | | | |
| | 144334 | Sealant, Tire (10 oz. Tube) | | | |
| NOTE: All component dimensions given in U.S. inches | | | | | |
| | 1 inch = 25.4 mm | | | | |

TRACTOR - - MODEL NUMBER 944.602890

ENGINE



TRACTOR - - MODEL NUMBER 944.602890

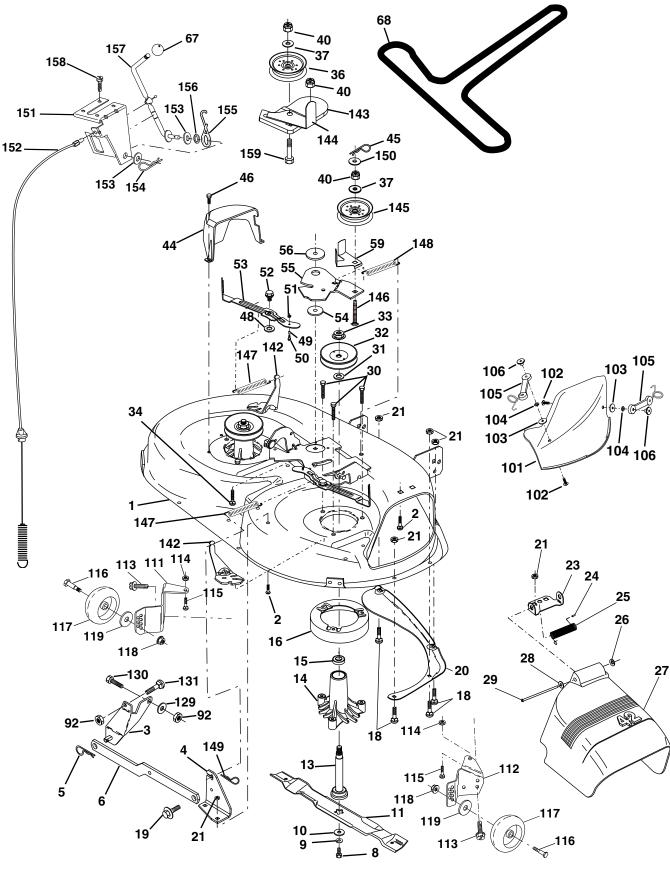
ENGINE

| KEY NO. | part No. | DESCRIPTION |
|------------|-------------------|--|
| 1 | 170546 | Control Throt Paddle |
| 2 | 17720408 | Screw Hex Thd Cut 1/4-20 x 1/2 |
| 3 | | Engine (See Breakdown) B&S Model 407777-0167-E1 |
| 4 | 149723 | Muffler Exhaust |
| 5 | 159955 | Exhaust Asm. Left |
| 6 | 160589 | Exhaust Asm. Right |
| 8 | 171877 | Bolt 5/16-18unc x 3/4 |
| 10 | 162797 | Heat Shield Lt |
| 13 | 165391 | Gasket Muffler |
| 14 | 148456 | Tube Drain Oil Easy |
| 16 | STD551237 | Washer Lock Ext Tooth 3/8 |
| 17 | 17060624 | Screw Thdrol 3/8-16x1-1/2 |
| 23 | 169837 | Shield BRN/DBR Guard |
| 25 | 145996 | Control Choke |
| 26 | 73920600 | Nut Keps 3/8-24 UNF |
| 29 | 137180 | Arrestor Spark |
| 31 32 | 157103 | Tank Fuel 3.5 STL W/O Sensor |
| 32 33 | 161696 123487X | Cap Fuel Gauge Clamp Hose Blk |
| 33 34 | 106082X | Strip Foam |
| 37 | 8543R | Line Fuel |
| 38 | 148315 | Plug Drain Oil Easy |
| 39 | 109227X | Pad Spacer |
| 45 | 17000612 | Screw Hex Wsh Thdrol 3/8-16 x 3/4 |
| 62 | 10040500 | Washer Lock Hvy HLCI Spr 5/16 |
| 72 | 71070512 | Screw Hex Hd Cap 5/16-18 x 3/4 |
| 81 | 73510400 | Nut Keps Hex 1/4-20 Unc |
| | | |

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

TRACTOR - - MODEL NUMBER 944.602890

MOWER DECK



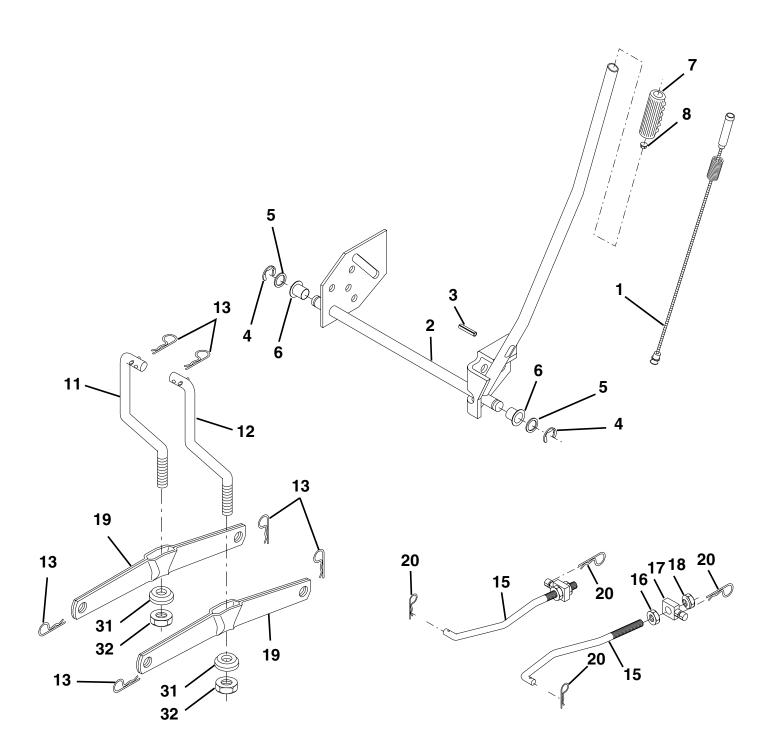
TRACTOR - - MODEL NUMBER 944.602890

MOWER DECK

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|----------------------|---|---|--------------------------|---|--|
| 1 2 3 | 165892 STD533107 138017 | Mower Deck Assembly, 42" Bolt Bracket Assembly,Sway Bar, | 52 53 54 | 139888 131845 133943 | Bolt, Shoulder 5/16-18 UNC Arm Assembly, Pad, Brake Washer, Hardened |
| 4 5 6 | 165460 STD624008 178024 | Front Bracket Sway Bar 38/42" Deck Retainer Spring Bar Sway Deck | 55 56 59 67 | 155046 165723 141043 149846 | Arm, Idler Spacer, Retainer Guard, TUV Idler Knob Custom Oval |
| 8 9 10 | 850857 STD551137 140296 | Bolt, Hex 3/8-24 x 1.25 Gr. 8 Washer, Lock Washer, Hardened | 68 92 101 | 144959 STD541437 136420 | V-Belt Nut Mulcher Cover |
| 11 | 134149 138498 | Blade, Mulching 42" Std (Originallyequipped with) Blade Mower 42" Hi-Lift Std (For | 102 103 104 | 71081010 19061216 STD551110 | Screw Washer #10 Washer, Lock |
| | 139775 | better bagging, especially in wet conditions) Blade Mulching 42" Premium (For | 105 106 111 112 | 160793 2029J 179292 179293 | Latch Assembly, Bagger Nut, Weld Bracket, Gauge, Wheel L.H. Bracket, Gauge, Wheel R.H. |
| | 138971 | better wear when mulching) Blade Mower 42" Hi-Lift Premium (For better wear when bagging in | 113 114 115 | 17060510 STD541431 72110505 | Screw 5/16-18 x .625 Nut, Hex, Keps 5/16-18 UNC Bolt, Carriage 5/16 UNC x 5/8 |
| 13 14 | 137645 128774 | heavy or wet conditions) Shaft Assembly, Mandrel, Vented | 116 117 118 | 4898H 165746 73930600 | Bolt, Shoulder Wheel, Gauge Nut, Centerlock 3/8-16 |
| 14 15 16 18 | 128774 110485X 174493 72140505 | Housing, Mandrel, Vented Bearing, Ball, Mandrel Stripper, Vented Mower Deck Bolt, Carriage 5/16-18 x 5/8 | 119 129 130 | STD551037 19131312 STD523710 | Washer 3/8 x 7/8 x 14 Gauge Washer 13/32 x 13/16 x 12 Ga. Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5 |
| 19 20 21 | 132827 159770 STD541431 | Bolt, Shoulder Baffle, Vortex Nut Crownlock 5/16-18 UNC | 131 142 143 | STD533710 165890 157109 | Bolt, Rdhd Sqnk 3/8-16UNC x 1 Arm Spring Brake Mower Bracket Arm Idler 42" |
| 23 24 25 | 177563 105304X 123713X | Bracket, Deflector Cap, Sleeve Spring, Torsion, Deflector | 144 145 146 | 158634 165888 171977 | Keeper Belt 42" Clutch Cable Pulley Idler Flat Bolt Carriage Idler |
| 26 27 28 | 110452X 130968X428 19111016 | Nut, Push Shield, Deflector Washer 11/32 x 5/8 x 16 Ga. | 147 148 149 150 | 131335 169022 165898 19091216 | Spring Extension Spring Return Idler Retainer Spring Yellow Zinc Washer 9/32 x 3/4 x 16 Ga. |
| 29 30 31 | 131491 173984 129963 | Rod, Hinge Screw Thdrol Washer, Spacer | 150 151 152 153 | 169670 169676 169674 | Bracket Clutch Cable Clutch 42 In Washer Flat 3/8" Type B |
| 32 33 34 36 | 153535 178342 STD533717 131494 | Pulley, Mandrel Nut, Toplock, Flanged Bolt Pulley, Idler, Flat | 154 155 156 | 169675 169671 169672 | Spring Retainer Spring Retention Lever Spacer |
| 30 37 40 44 | STD551037 STD541437 140088 | Washer 13/32 x 13/16 x 16 Gauge Nut Crownlock 3/8-16 UNC Guard, Mandrel, L.H. | 157 158 159 | 169669 17720408 72140614 | Rod Clutch Screw Hex Thd Cut 1/4-20 x 1/2 Bolt Rdhd Sqn 3/8-16 Unc x 1-3/4 |
| 45 46 48 | STD624003 137729 133944 | Retainer Screw, Thd. Roll 1/4-20 x 5/8 Washer, Hardened | | 130797 | Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only - Pulley Not Included) |
| 49 50 51 | 174284 131340 STD541410 | Roller Assembly, Cam Follower Bolt, Shoulder #10-24 Grade 5 Locknut | ΝΟΤΙ | 169583 E: All compone 1 inch = 25 | Replacement Mower, Complete ent dimensions given in U.S. inches .4 mm |

TRACTOR - - MODEL NUMBER 944.602890

MOWER LIFT



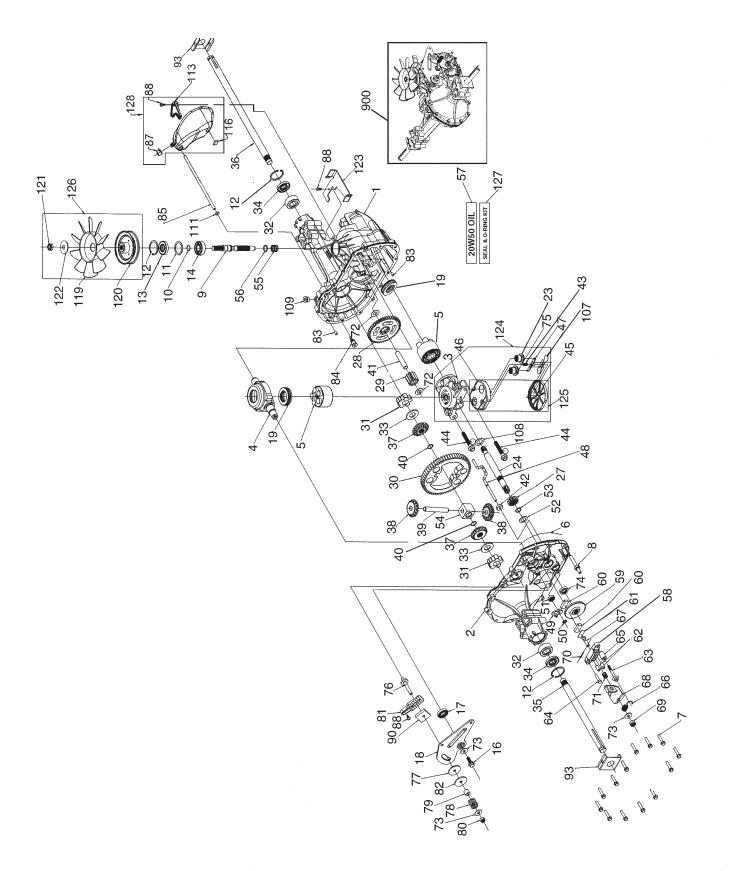
TRACTOR - - MODEL NUMBER 944.602890

MOWER LIFT

| KEY NO. | Part No. | DESCRIPTION |
|--|--|---|
| 1 2 3 4 5 6 7 8 11 12 13 15 | 159460 159471 105767X STD581062 19211621 120183X 125631X 122365X 139865 139866 STD624008 173288 | Wire Asm Inner W/Plunge5r Shaft Asm Lift Pin Groove E Ring #5133-62 Washer 29/32 x 1-1/4 x 21 Ga. Bearing Nylon Blk .629 ID Grip Handle Fluted Button, Plunger Link Lift Lh Link Lift Rh |
| 16 17 18 19 20 31 32 | 73350800 175689 73800800 139868 163552 169865 73540600 | Nut Jam Hex 1/2-13 Unc Trunnion Nut Lock w/Wsh 1/2-13 Unc Arm Suspension Rear Spring Retainer Bearing Pvt. Lift Nut Lock 3/8-24 |

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

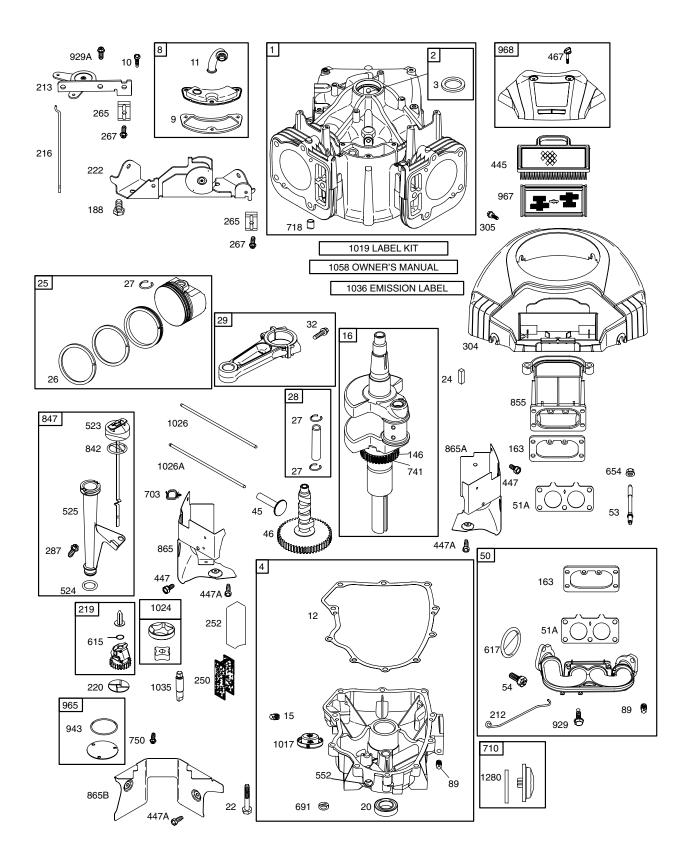
TRACTOR - - MODEL NUMBER 944.602890 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510



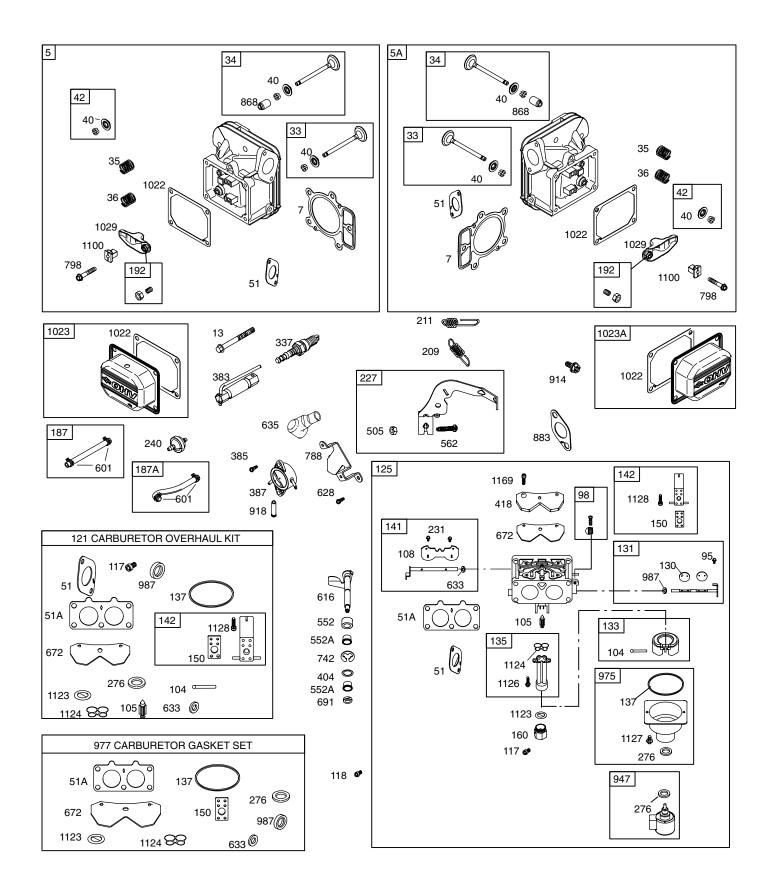
TRACTOR - - MODEL NUMBER 944.602890 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

| Key No. | Part No. | DESCRIPTION | Key No. | part No. | DESCRIPTION |
|------------|-------------|-------------------------------------|------------|----------------|--|
| 1 | 170351 | Main Housing, Assembly | 59 | 170408 | Rotor, Brake |
| 2 | 170352 | Side Housing, Assembly | 60 | 142883 | Brake Puck |
| 3 | 170353 | Center Section, Assembly | 61 | 142882 | Puck Plate |
| 4 | 170354 | Swashplate, Trunion Machined | 62 | 142887 | Brake Actuating Pin |
| 5 | 169898 | Block - Assembly | 63 | 170410 | Hfhcs 1/4-20x2 W/ |
| 6 | 170355 | Sealant 10.5 Oz | 00 | 170410 | Patch,SpecialFlange |
| 7 | 170356 | Hex Flange Screw 1/4-20 X 1.25 | 64 | 142892 | Bolt, 1/4-20 X 1 W/Patch |
| 8 | 170357 | Stud, 5/16-24 Hex Double End | 65 | 170411 | Spacer |
| 9 | 170358 | Shaft, Input | 66 | 170412 | Spring, Brake Arm Bias |
| 10 | 170359 | Ring - Retaining | 67 | 170413 | Sq. Hd. Bolt 5/16-24-Ribbed |
| 11 | 170360 | Spacer | 68 | 170413 | Arm, Brake |
| 12 | 169870 | Ring - Retaining | 69 | 170415 | Slotted Hex Nut 5/16-24 |
| 13 | 170361 | Seal, Lip .67 X 1.58 X .276 | 70 | 170415 | Cotter Pin 3/32 X 3/4 |
| 14 | 169869 | Ball Brg 17mm Id X 40mm Od X | 70 | 170417 | |
| 14 | 109009 | 12mm | 72 | 170417 | Compression Spring Brake Anti-Drag Washer, Ht .5 I.D. X 1 O.D. X .032 |
| 16 | 170362 | Hex Flange Head Screw 5/16- | 73 | 142884 | Flat - Washer 11/32 I.D. X 7/8 O.D |
| 10 | 170302 | | 73 74 | | |
| 17 | 170262 | 24X0.75 | | 170419 | Oil Seal .625 X 1.0 X .25 |
| 17 | 170363 | Lip Seal 18 X 32 X 7 | 75 | 170420 | Check Plug Assembly, .027, |
| 18 | 170364 | Arm, Control | 70 | 170401 | Washer |
| 19 | 150771 | Bearing, 30x52x13 Thrust | 76 | 170421 | Stud, 5/16-24 Friction Pack |
| 23 | 170365 | Check Plug Assembly, Washer | 77 | 170422 | Puck, .330 X 1.50 X .0975 |
| 24 | 170366 | Shaft, Motor | 78 | 142969 | Spring, Helical Comp |
| 27 | 170367 | Gear - Pinion, 13t | 79 | 142980 | Spacer |
| 28 | 170368 | 10t/48t Gear | 80 | 150778 | Hex Lock Nut 5/16-24Unjf(Nylon |
| 29 | 170369 | Gear, 10t Jackshaft | | 170.400 | Insert) |
| 30 | 170370 | 60t Bull Gear | 81 | 170423 | Wedge, Friction Pack |
| 31 | 170371 | Sleeve Bearing .75 X 1.575 X .625 | 82 | 170424 | Clip, Washer .316x1.50x.1046 |
| 32 | 170389 | SleeveBearing(Outboard) | ~~ | | (Plated) |
| ~~ | | .75x1.750x.625 | 83 | 161168 | Pin, Standard Headless |
| 33 | 142991 | Washer, 3/4 Id X 1-1/2 Od X .13 Thk | 84 | 170425 | Fitting, 5/16 Sae 5/32 Tube |
| 34 | 170390 | Lip Seal Axle Seal | 85 | 170426 | Hose, Expansion Tank |
| 35 | 170391 | Shaft, Axle .75 X 11.39 (Key, R.H.) | 87 | 142917 | Cap - Poppet Valve |
| 36 | 170392 | Shaft, Axle .75 X 16.99 (Key, L.H.) | 88 | 170429 | Bolt, Self Tapping 10-32 X 1/2 |
| 37 | 150792 | Miter Gear (Splined) | 90 | 170430 | Puck, Inner Wedge |
| 38 | 150793 | Miter Gear 15t (0.5 ld) | 93 | 170431 | Spring Clip - Housing Thrust |
| 39 | 150809 | Shaft | 107 | 170432 | Deflector |
| 40 | 170393 | Ring, Spiral Retaining | 108 | 170433 | Washer, Motor Shaft |
| 41 | 170394 | Pin, Jackshaft | | | .71idx1.15odx.030thk |
| 42 | 170395 | Magnet, Ring | 109 | 170434 | Plug, Sae #6 |
| 43 | 170396 | Spring, Bypass | 111 | 170435 | O-Ring .07 X .301 I.D. |
| 44 | 150797 | Hydro Mtg Screw 3/8-24 X 2.5 Long | 113 | 170437 | Bracket, Support Expansion Tank |
| 45 | 170397 | Filter | 116 | 170438 | Silicon Sponge |
| 46 | 170398 | Base, Filter | 119 | 170439 | Fan, 7 In. |
| 47 | 170399 | Actuator, Bypass | 120 | 170440 | Pulley |
| 48 | 170400 | Rod, Bypass Actuator | 121 | 170441 | Hex Lock Nut 1/2-20 (Nylon Insert) |
| 49 | 170401 | Arm, Bypass | 122 | 170442 | Washer, Belleville |
| 50 | 170402 | Retaining Ring 250 External | 123 | 170443 | Belt Keeper |
| 51 | 170403 | Seal, Lip .741 X .250 X .250 Tc | 124 | 170444 | Center Section-Filter-Bypass |
| 52 | 170404 | Flat Washer, 5/8 Id X 1.0 Od X .05 | | | Assembly |
| | | Thk | 125 | 170445 | Filter Assembly |
| 53 | 170405 | Retaining Ring | 126 | 170446 | Fan - Pulley Service Assembly |
| 54 | 170406 | Bearing, Center Block | 127 | 170447 | Seal - O-Ring Kit |
| 55 | 142977 | Spring - Helical Compression | 128 | 173165 | Kit, Expansion Tank |
| 56 | 142978 | Washer | 900 | 166768 | Transaxle Complete |
| 57 | 150798 | 20w-50 Oil | | | |
| 58 | 170407 | Brake Yoke | NOTE | E: All compon | ent dimensions given in U.S. inches |
| | | | | 1 inch = 25.4 | |
| | | | | | |

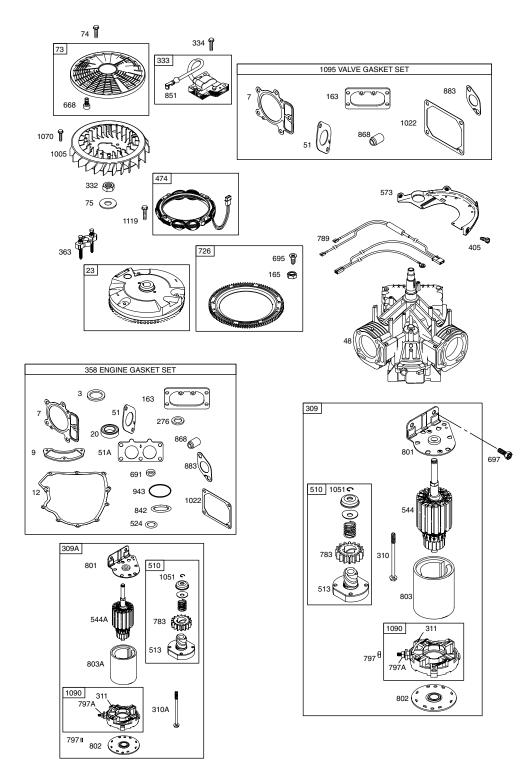
TRACTOR - - MODEL NUMBER 944.602890 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407777, TYPE NUMBER 0167-E1



TRACTOR - - MODEL NUMBER 944.602890 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407777, TYPE NUMBER 0167-E1



TRACTOR - - MODEL NUMBER 944.602890 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407777, TYPE NUMBER 0167-E1



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TRACTOR - - MODEL NUMBER 944.602890 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407777, TYPE NUMBER 0167-E1

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|------------|------------------|---|------------|------------------|---|
| 1 | 690231 | Cylinder Assembly | 137 | 690994 Ø | t Gasket-Float Bowl |
| 2 | 499585 | Kit-Bushing/Seal (Magneto Side) | 141 | 499807 | Kit-Choke Shaft |
| 3 | 391086 | Seal-Oil (Magneto Side) | 142 | | Ø Nozzle-Carburetor |
| 4 | 697473 | Sump-Engine | 146 | 690979 | Key-Timing |
| 5 | 693998 | Head-Cylinder (Cylinder 1) | 150 | | t Gasket-Nozzle |
| 5A | 693999 | Head-Cylinder (Cylinder 2) | 160 | 690996 | Retainer-Solenoid |
| 7 8 | 690962 499601 | •+ Gasket-Cylinder Head Breather Assembly | 163 165 | 691001 693148 | + Gasket-Air Cleaner |
| 9 | 690937 | Gasket-Breather | 187 | 691050 | Nut (Ring Gear) Line-Fuel (Cut to Required Length) |
| 10 | 690960 | Screw (Breather Assembly) | 187A | | Line-Fuel (Molded) |
| 11 | 690942 | Tube-Breather | 188 | 690960 | Screw (Control Bracket) |
| 12 | 690945 | Gasket-Crankcase | 192 | 690083 | Adjuster-Rocker Arm |
| 13 | 690360 | Screw (Cylinder Head) | 209 | 697674 | Spring-Governor (Used After Code Date |
| 15 | 690946 | Plug-Oil Drain | | 001010 | 02011300) |
| 16 | 691046 | Crankshaft | | 691018 | Spring-Governor(Used Before |
| 20 22 | 690947 694966 | Seal-Oil (PTO Side) Screw (Engine Sump) | 211 | 691019 | CodeDate 02011400) Spring-Governed Idle |
| 23 | 691054 | Flywheel | 212 | 695238 | Link-Throttle |
| 24 | 222698 | Key-Flywheel | 213 | 691021 | Bracket-Choke Control |
| 25 | 499588 | Piston Assembly (Standard) | 216 | 691022 | Link-Choke |
| 25 | 499589 | Piston Assembly (.010" Oversize) | 219 | 696376 | Gear-Governor |
| 25 | 499590 | Piston Assembly (.020" Oversize) | 220 | 690412 | Washer (Governor Lever) |
| 25 | 499591 | Piston Assembly (.030" Oversize) | 222 | 691023 | Bracket-Control |
| 26 26 | 499604 499605 | Ring Set-Piston (Standard) Ring Set-Piston (.010" Oversize) | 227 231 | 691048 690718 | Lever-Governor Control Screw (Choke Valve) |
| 26 | 499605 | Ring Set-Piston (.020" Oversize) | 240 | 691035 | Filter-Fuel |
| 26 | 499607 | Ring Set-Piston (.030" Oversize) | 250 | 690957 | Retainer-Breather |
| 27 | 690975 | Lock-Piston Pin | 252 | 690956 | Collector-Oil |
| 28 | 690229 | Pin-Piston | 265 | 691024 | Clamp-Casing |
| 29 | 499583 | Rod-Connecting | 267 | 695134 | Screw (Casing Clamp) |
| 32 | 690976 | Screw (Connecting Rod) | 276 | | + Washer-Sealing |
| 33 | 499596 | Valve-Exhaust | 287 | 690960 | Screw (Dipstick Tube) |
| 34 35 | 499597 690963 | Valve-Intake Spring-Valve (Intake) | 304 305 | 695277 691005 | Housing-Blower Screw (Blower Housing) |
| 36 | 690963 | Spring-Valve (Exhaust) | 309 | 691262 | Motor-Starter (Used Before Code Date |
| 40 | 690964 | Retainer-Valve | 000 | 001202 | 02040100) |
| 42 | 499586 | Keeper-Valve | 309A | 497595 | Motor-Starter (Used After Code Date |
| 45 | 690977 | Tappet-Valve | | | 02040200) |
| 46 | 690978 | Camshaft | 310 | 691263 | Bolt-Starter Motor |
| 48 | 692714 | Short Block | 311 | 497608 | Brush Set |
| | | (445777-0112-E2 Replacement | 332 333 | 691059 691060 | Nut (Flywheel) Armature-Magneto |
| 50 | 695241 | Engine) Manifold-Intake | 334 | 691061 | Screw (Magneto Armature) |
| 51 | | •Ø+ Gasket-Intake | 337 | 691043 | Sparkplug |
| 51A | | ؇ Gasket-Intake | 358 | 694012 | Set-Engine Gasket |
| 53 | 690951 | Stud (Carburetor) | 363 | 691062 | Flywheel Puller |
| 54 | 695240 | Screw (Intake Manifold) | 383 | 690966 | Wrench-Spark Plug |
| 73 | 691055 | Screen-Rotating | 385 | 690960 | Screw (Fuel Pump) |
| 74 75 | 691057 691056 | Screw (Rotating Screen) Washer (Flywheel) | 387 404 | 808656 690442 | Pump-Fuel Washer (Governor Crank) |
| 89 | 690283 | Plug-Oil | 404 | 690960 | Screw (Back Plate) |
| 95 | 690718 | Screw (Throttle Valve) | 418 | 690999 | Plate-Carburetor |
| 98 | 499802 | Kit-Idle Speed | 445 | 499486 | Filter-Air Cleaner Cartridge |
| 104 | 690984 | Ø Pin-Float Hinge | 447 | 691003 | Screw (Air Guide Cover) |
| 105 | 690985 | Ø Valve-Float Needle | 447A | 690960 | Screw (Air Guide Cover) |
| 108 | 690986 | Valve-Choke | 467 | 691008 | Knob-Air Cleaner |
| 117 | 690232 | Ø Jet-Main (Standard) | 474 | 696459 | Alternator |
| 118 121 | 690989 499811 | Jet-Main (High Altitude) Kit-Carburetor Overhaul | 505 510 | 691029 497606 | Nut (Governor Control Lever) Drive-Starter |
| 125 | 499804 | Carburetor | | Settings: | Low Speed: 1900-2100 |
| 130 | 690993 | Valve-Throttle | | | High Speed: 3000-3200 |
| 131 | 499805 | Kit-Throttle Shaft | • | | Engine Gasket Set, Key. No. 358 |
| 133 | 499806 | Float-Carburetor | Ø | | Carburetor Overhaul Kit, Key. No. 121 |
| 135 | 499803 | Tube-Fuel Transfer | ‡ | | Carburetor Gasket Set, Key. No. 977 |
| | | | + | included in | Valve Overhaul Kit, Key. No. 1095 |

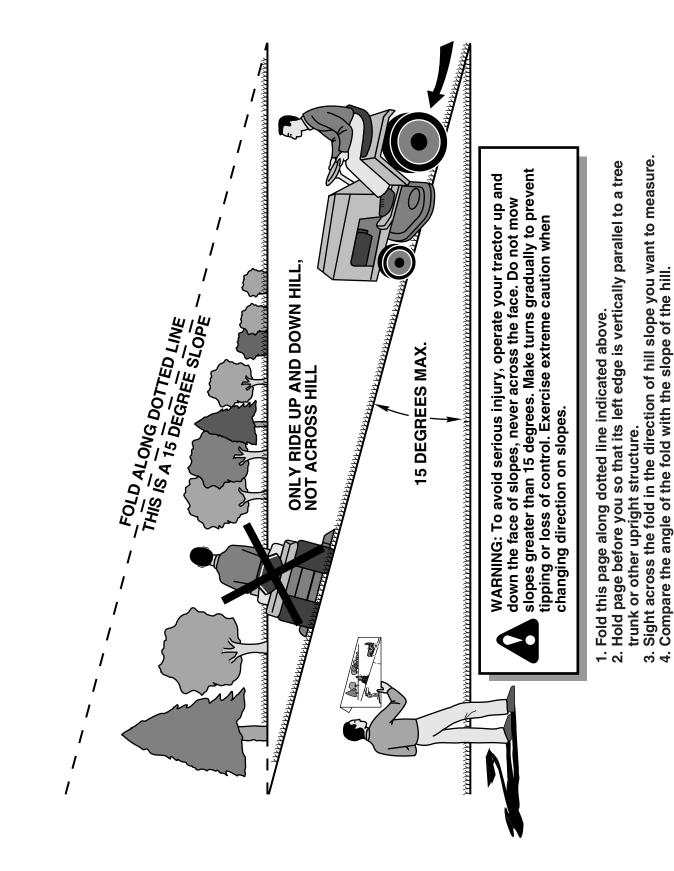
NOTE: All component dimensions given in U.S. inches 1 inch **49** = 25.4 mm

TRACTOR - - MODEL NUMBER 944.602890 BRIGGS & STRATTON ENGINE - MODEL NUMBER 407777, TYPE NUMBER 0167-E1

| 613 692024 Clutch-Drive 883 690970 +: Gasket Exhaust 523 691032 -: Seat-Dipstick Tube 918 694000 Hose-Nacuum 524 691032 -: Seat-Dipstick Tube 918 694000 Hose-Nacuum 544 Armature-Starter (Service with 691262 923A 691003 Screw (Choke Control Bracket) 544 Armature-Starter (Used After Code 947 499809 Sclenolf-Fuel 544 692034 Armature-Starter (Used After Code 967 272638 Filter-Pre Cleaner 552 690552 Bushing-Governor Crank 977 499810 Bowl-Float 552 690552 Bushing-Governor Crank 977 499810 Cover-Air Cleaner 552 690517 Retainer-Governor Staft 1019 691000 Cover-Rocker (Cylinder 1) 552 69052 Bushing-Governor Staft 1019 690170 Klashel-Rocker Cover 563 69058 Nut (Carburetor) 10224/499000 Cover-Rocker (Cylinder 1) Cover-R | KEY PART NO. NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|--|---------------------|--|------------|---------------|--|
| 525 691032 • Sea-Dipstick Tube 918 694000 Hose-Vacuum 525 691037 Tube-Dipstick 929 695239 Screw (Choke Control Bracket) 544 Armature-Starter (Service with 691262 929A 691003 Screw (Choke Control Bracket) 544 62020100 947 499809 Solenoid-Fuel 02040100 552 690552 Bushing-Governor Crank 975 499810 Cover-Air Cleaner 552 690553 Bushing-Governor Crank 975 499810 Bowl-Float 552 690554 Bolt (Governor Crank 977 498812 Gasket Set-Carburetor 562 690371 Relamer-Governor Shaft 1017 690770 Screen-Oil Pump 616 691045 Crank-Governor Shaft 1022 690981 Foot-Push (Steel) 628 69058 Nut (Carburetor) 1022 6490981 Foot-Push (Steel) 638 690967 Screw (Fuel Carburetor) 1026 690972 Arm-Flowheel 639 | 513 692024 | | | | |
| 525 691037 Tube-Dipstick 929 695239 Screw (Choke Control Bracket) 544 — Amature-Starter (Service with 691262 929 690589 Screw (Choke Control Bracket) 544 692034 Amature-Starter (Used After Code Date 0204/0200) 943 690589 Sclenoid-Fuel 552 690552 Bushing-Governor Crank 975 499810 Bowt-Float 552 690552 Bushing-Governor Crank 977 499810 Bowt-Float 552 690552 Bushing-Governor Crank 977 499810 Bowt-Float 552 690552 Bushing-Governor Crank 977 499810 Bowt-Float 562 690103 Flate-Mack Governor 1005 691243 Fan-Flywheel 573 691009 Plate-Back 1005 69124 Fan-Flywheel 580317 Retainer-Governor Shaft 1019 690103 Cover-Rocker (Cylinder 1) 580605 Starter 1023 49959 Cover-Rocker (Cylinder 2) 580635 Boot-Sparkplug | 523 691036 | Dipstick | | | |
| 544 | 524 691032 | Seal-Dipstick Tube | | | |
| Starter Starter <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| Motor) (Used Before Code Date 02040100) 947 498009 Solenoid-Fuel 544A 692034 Armature-Starter (Used After Code Date02040200) 967 479810 Bowl-Float 552 690552 Bushing-Governor Crank 977 499810 Gowl-Float 552 690552 Bushing-Governor Crank 977 499810 Gasket Sel-Caburetor 562 690311 Bolt (Governor Control Lever) 987 691000 Ct seal-Throttle Shat 573 691009 Plate-Back 1005 69127 Steal-Throttle Shat 611 95162 Clamp-Hose 1019 690103 KitLabel 616 691045 Crank-Governor 1023A499600 Cover-Rocker (Cylinder 1) 628 69098 Ct seal-Choke/Throttle Shatt 1024 499054 Pump-Oil 633 66557 Seal-Governor Shatt 1035 691298 Add-Push (Aluminum) 646 69058 Nut (Carburetor Plate 1035 691042 Shat-Purp-Oil 653 663149 Screer (Ring Gea | 544 ——— | Armature-Starter (Service with 691262 | | | |
| 644A 69204 Armature-Stater (Used After Code Date(02040200) 965 499613 Cover-Oil Pump 524 690552 Bushing-Governor Crank 967 272838 Filter-Pre Cleaner 524 690553 Bushing-Governor Crank 977 499810 Bow-Hoat 532 690553 Bushing-Governor Crank 977 499812 Gasket Set-Carburetor 632 690514 Bott (Governor Crank 977 499812 Gasket Set-Carburetor 615 690317 Fetainer-Governor Shaft 1017 690770 Screen-Oil Pump 616 691045 Crank-Governor 1022 690971 Goker (Cylinder 1) 628 690980 Of Seal-Choker-Throtite Shaft 1026 690818 Rod-Push (Aluminum) 635 66338 Nut (Carburetor) 1026 690982 Rod-Push (Aluminum) 646 691215 Spacer Ford Push (Stee) 1026 690982 646 691245 Spacer Ford Push (Stee) 1026 69072 Arm-Aoker | | | | | |
| 54.4.6 692034 Armature-Starter (Used After Code DateQ2040200) 967 272638 Filter-Pre Cleaner 552.6 690553 Bushing-Governor Crank 977 499810 Bowl-Float 552.6 690553 Bushing-Governor Crank 977 499812 Gasket Set-Carburetor 573 691009 Plate-Back 1005 691243 Fan-Flywheel 601 95162 Clamp-Hose 1017 680703 Screen-Oil Pump 616 691045 Crank-Governor 1019 680103 Kit-Label 616 691045 Crank-Governor 1022 690971 + Gasket-Rocker Cover 616 691058 Boot-Sparkplug 1026 690891 Hourp-Uni 633 660324 Gasket-Carburetor Plate 1036 681243 Fan-Hocker 631 691058 Screew (Ring Gear) 1026 680931 Hou-Push (Aluminum) 636 69072 Arm-Rocker Screew (Drive Cap) 1026 680972 Arm-Rocker 63149 <t< td=""><td></td><td></td><td></td><td></td><td></td></t<> | | | | | |
| Construction Construction Section | E 4 4 A | | | | |
| 552 690552 Bushing-Gouernor Crank 975 49812 Bowl-Float 552A 690553 Bushing-Gouernor Crank 975 49812 Gasket Set-Carburetor 62 690311 Bolt (Governor Control Lever) 976 499812 Gasket Set-Carburetor 610 95162 Clamp-Hose 1017 690770 Screen-Oil Pump 615 690317 Retainer-Governor 1017 690771 Screen-Oil Pump 616 691045 Crank-Governor 1023 499500 Cover-Rocker (Cylinder 1) 628 690960 Screw (Fuel Pump Bracket) 1024 499612 Pump-Oil 635 66538 Boot-Sparkplug 1026 690972 Arm-Rocker 646 690588 Nut (Carburetor) 1026A690982 Rod-Push (Aluminum) 654 69057 Seak-Governor Shaft 1035 691042 Shaft-Pump 691 69057 Seak-Governor Shaft 1035 691042 Shaft-Pump 691 690574 Label-Emission | 544A 692034 | | | | |
| 552.6 690533 Bushing-Governor Crank 977 49912 Gasket Set-Carburetor 562 691000 Plate-Back 1005 691100 Ct Seal-Throttle Shaft 573 691000 Plate-Back 1007 691000 Ct Seal-Throttle Shaft 515 690317 Retainer-Governor Shaft 1019 690070 Kit-Label 616 691045 Crank-Governor Totalk 1023 49959 Cover-Rocker (Cylinder 1) 628 690960 Screw (Fuel Pump Bracket) 1023 (49959 Cover-Rocker (Cylinder 2) 633 690980 Cf Seal-Cohok/Throttle Shaft 1024 690971 Holde-Push (Aluminum) 646 690258 Nut (Carburetor) 1026 690982 Rod-Push (Aluminum) 656 69149 Screw (Ring Gear) 1051 691402 Shaft-Pump 691 69057 Seal-Governor Shaft 1036 691422 Shaft-Pump 691 69057 Seal-Governor Shaft 1036 691422 Shaft-Pump | | | | | |
| 562 690311 Bott (@vermor Control Lever) 987 691000 Qt Seal-Throttle Shaft 573 691009 Plate-Back 1005 691243 Fan-Flywheel 611 95162 Clamp-Hose 1017 690103 Screen-Oil Pump 615 690317 Retainer-Governor 1019 690103 Kit-Label 616 691045 Crank-Governor 1023 499500 Cover-Rocker (Cylinder 1) 628 690960 Screw (Fuel Pump Bracket) 1024 499500 Cover-Rocker (Cylinder 2) 633 690988 Qt Sasket-Carburetor Plate 1026 690981 Rod-Push (Steel) 641 690567 Screw (Ring Gear) 1026 691042 Shaft-Pump 691 690677 Screw (Ring Gear) 1058 691742 Shaft-Pump 697 690372 Screw (Ring Gear-Timing 1058 Screw (Hivel Fan) 710 697474 Cover-Oil Filter 1090 691283 Screw (Hivel Fan) 724 690328 Retainer-E Ring </td <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| 573 681009 Plate-Back 1005 691243 Fan-Flywheel 601 95162 Clamp-Hose 1017 690770 Screen-Oil Pump 616 691045 Crank-Governor 1022 6909103 Kit-Label 616 691045 Crank-Governor 1022 690971 + Gasket-Rocker Cover 628 690960 Screw (Fuel Pump Bracket) 1023A499604 Cover-Rocker (Cylinder 1) 636 690980 Ot Screw (Fuel Pump Bracket) 1024 499054 Pump-Oil 636 69058 Nut (Carburetor) 1026 690982 Rod-Push (Aluminum) 646 69057 Scael-Corker/Throttle Shaft 1035 691042 Shaft-Pump 691 69067 Screw (Ring Gear) 1051 691265 Ring-Retaining 693 Gover-Oic Hilter 1036 69173 Screw Nerve Cap) 1058 5744 Label-Emission 718 690372 Screw (Ring Gear) 1051 691285 Ring-Retaining 1070 691088 Screw (Alvenator) 726 499612 Gear-Ring 11096 690973 Screw (Altemator) 123 6909977 Stick-Valve Overhaul | | | | | |
| 601 95162 Clamp-Hose 1017 690700 Screen-Oil Pump 615 690317 Retainer-Governor Shaft 1019 690103 Kit-Label 616 691045 Crank-Governor 1022 690971 ++ Gasket-Rocker (Cover 617 691917 Seal-O Ring (Intake Manifold) 1023 499590 Cover-Rocker (Cylinder 1) 623 690980 Ctrw (Field Pump Bracket) 1023A499600 Cover-Rocker (Cylinder 2) 633 690988 Nut (Carburetor) 1026A690982 Rod-Push (Steel) 644 69055 Spacer 1029 690722 Arm-Rocker 7690372 Screw (Ring Gear) 1051 691042 Snaft-Pump 697 690374 Label-Emission Screw (Five Pan) 1053 697 690372 Screw (Ring Gear) 1058 Screw (Pive Pan) 1058 710 69744 Cover-Oil Filter 1090 691233 Retainer-Bran) 718 690959 Pin-Locating 1056 694013 | | | | | |
| 615 6800377 Retainer-Governor Shaft 1019 690103 Kit-Label 616 691045 Crank-Governor 1022 690971 ++ Gasket-Rocker (Cylinder 1) 617 691945 Screw (Fuel Pump Bracket) 1023 499509 Cover-Rocker (Cylinder 2) 628 690960 Screw (Fuel Pump Bracket) 1023 499509 Cover-Rocker (Cylinder 2) 635 66538 Boot-Sparkplug 1026 690981 Rod-Push (Aluminum) 646 691215 Spacer 1029 690972 Arm-Rocker 672 690234 0‡ Gasket-Carburetor Plate 1035 691042 Shaft-Pump 691 69067 Screw (Ring Gear) 1051 691265 Runal Retainer-Frush 703 691010 Clip 1070 691058 Screw (Alternator) 716 697474 Cover-Oil Filter 1095 694013 Kit-Valve Overhaul 716 691033 Screw (Oil Pump Cover) 1126 690987 Scal-O Ring (Solenoid Retainer) 736 691033 Screw (Oil Pump Cover) 1126 690988 | | | | | |
| 616 691045 Crank-Governor 1022 690971 ++ Gasket-Rocker Cover 617 691917 Seal-O Ring (Intake Manifold) 1022 499599 Cover-Rocker (Cylinder 1) 633 690980 Qt Seal-Choke/Throttle Shaft 1024 499054 Pump-Oil 633 690958 Nut (Carburetor) 1024 690958 Rod-Push (Steel) 646 690957 Seal-Choke/Throttle Shaft 1022 690972 Arm-Rocker 672 690257 Seal-Governor Shaft 1035 691042 Shaft-Pump 691 69067 Seal-Governor Shaft 1051 691265 Ring-Retaining 697 690372 Screw (Ring Gear) 1058 274794 Owner's Manual 703 691010 Cip 1070 691058 Screw (Alternator) 716 697474 Cover-Nockir 1119 691183 Screw (Alternator) 714 690980 Gear-Fining 1123 690987 Piote-Rocker Arm 724 690328 Retainer-E Ring 1124 690980 Screw (Alternator) 736 | | | | | |
| 617 651917 Seal-O Ring (Intake Manifold) 1023 499599 Cover-Rocker (Cylinder 1) 628 690960 Screw (Fuel Pump Bracket) 1023 499599 Cover-Rocker (Cylinder 2) 633 690980 Øt Seal-Chok/Thorttle Shaft 1024 499054 Pump-Cil 635 66538 Boot-Sparkplug 1026 690981 Rod-Push (Aluminum) 646 690958 Nut (Carburetor) 1026A690982 Rod-Push (Aluminum) 668 691215 Spacer 1035 691042 Shaft-Pump 672 690234 Øt Gasket-Carburetor Plate 1036 695704 Label-Emission 6916 Screw (Ring Gear) 1051 691265 Ring-Retaining 703 691010 Cilp 10070 691058 Screw (Flywheel Fan) 710 69774 Cover-Oil Filter 1095 694013 Kit-Valve Overhaul 726 690328 Retainer-E Ring 11123 6909870 \$ Seal-O Ring (Solenoid Retainer) 718 690358 Gear-Fining | | | | | |
| 628 690960 Screw (Fuel Pump Bracket) 1023A499600 Cover-Rocker (Cylinder 2) 633 690998 0‡ Seal-Choke/Throttle Shaft 1024 499634 Pump-Oil 635 66538 Boot-Sparkplug 1026 690981 Rod-Push (Steel) 646 690958 Nut (Carburetor) 1026 A90982 Acd-Push (Aluminum) 666 69115 Spacer 1029 690972 Arm-Rocker 672 690234 ؇ Gasket-Carburetor Plate 1035 691042 Shaft-Pump 691 690657 • Seal-Governor Shaft 1036 691255 Ring-Retaining 697 690372 Screw (Ring Gear) 1051 691265 Ring-Retaining 710 697474 Cover-Oil Filter 1090 691293 Retainer-Brush 714 690960 Gear-Timing 1100 690973 Pivot-Rocker Arm 741 690980 Gear-Ring 1123 690987 Ø ± Seal-O Ring (Solenoid Retainer) 742 6903103 <td></td> <td></td> <td></td> <td>499599</td> <td>Cover-Rocker (Cylinder 1)</td> | | | | 499599 | Cover-Rocker (Cylinder 1) |
| 633 660998 Øt Seal-Choke/Throftle Shaft 1024 499054 Pump-Oil 635 66538 Boot-Sparkplug 1026 690981 Rod-Push (Aluminum) 636 691215 Spacer 1029 690972 Arm-Rocker 636 691215 Spacer 1026 690982 Rod-Push (Aluminum) 631 690657 Seal-Governor Shaft 1036 691042 Shaft-Pump 631 690657 Scaew (Ring Gear) 1051 691265 Ring-Retaining 637 690372 Screw (Drive Cap) 1058 274794 Owner's Manual 703 691010 Clip 1070 691058 Screw (Flywheel Fan) 718 690959 Pin-Locating 1095 694013 Kit-Valve Overhaul 726 499612 Gear-Timing 1119 691183 Screw (Alternator) 741 690328 Retainer-E Ring 1124 690987 Screw (Alternator) 736 691033 Screw (Carburetor Nozzle) Screw (Carbur | | | 1023A | 499600 | |
| 635 66538 Boot-Sparkplug 1026 690981 Rod-Push (Steel) 654 690958 Nut (Carburetor) 1026A690982 Rod-Push (Aluminum) 668 691215 Spacer 1035 690972 Arm-Rocker 672 690234 ؇ Gasket-Carburetor Plate 1035 691042 Shaft-Pump 691 690657 Seal-Governor Shaft 1036 695704 Label-Emission 697 690372 Screw (Drive Cap) 1051 691265 Ring-Retaining 697 690372 Screw (Drive Cap) 1070 691058 Screw (Hywheel Fan) 710 697474 Cover-Oil Filter 1090 691058 Screw (Hywheel Fan) 718 690959 Pin-Locating 1100 690973 Rival-Retainer, 741 690980 Gear-Timing 1112 690987 \$crew (Hulternator) 742 690328 Retainer-Fe Ring 1124 690997 \$crew (Fuel Transfer Tube) 788 691033 Screw (Oil Pump Cover) <td< td=""><td></td><td></td><td>1024</td><td>499054</td><td></td></td<> | | | 1024 | 499054 | |
| 668 691215 Spacer 1029 690972 Arm-Rocker 672 690234 ؇ Gasket-Carburetor Plate 1035 691042 Shaft-Pump 691 690657 Seal-Governor Shaft 1036 695704 Label-Emission 697 690372 Screw (Ring Gear) 1051 691265 Ring-Retaining 697 690372 Screw (Drive Cap) 1058 274794 Owner's Manual 703 691010 Clip 1070 691058 Screw (Flywheel Fan) 710 69774 Cover-Oil Filter 1090 691038 Screw (Vrive Cap) 711 690959 Pin-Locating 1100 690972 Screw (Alternator) 742 690328 Retainer-E Ring 1112 690987 Screw (Alternator) 743 693058 Gear-Pinion 1124 690988 \$ Screw (Caturetor Nozzle) 783 693057 Harness-Wiring 1127 690991 Screw (Caturetor Nozzle) 797A 691029 Nut (Brush Retainer) | 635 66538 | Boot-Sparkplug | | | |
| 672 690234 ؇ Gasket-Carburetor Plate 1035 691042 Shaft-Pump 691 690657 • Seal-Governor Shaft 1036 695704 Label-Emission 697 690372 Screw (Drive Cap) 1051 691265 Ring-Retaining 703 691010 Clip 1070 691265 Ring-Retaining 710 697474 Cover-Oil Filter 1090 691293 Retainer-Brush 718 690959 Pin-Locating 1095 694013 Kit-Valve Overhaul 741 690980 Gear-Ring 1100 690987 9 ivot-Rocker Arm 742 690328 Retainer-E Ring 1124 690987 9 ivot-Rocker Arm 742 690305 Gear-Pinion 1124 690988 0 ± Seal-O Ring (Fuel Transfer Tube) 788 691039 Bracket-Fuel Pump 1127 690990 Screw (Float Bowl) 797 691029 Nut (Brush Retainer) 1128 690990 Screw (Carburetor Nozzle) 7974 69167 Nut (Brush Retainer) 1280 697475 Seal-O Ring (Oil Filter Cover) | | Nut (Carburetor) | | | |
| 691 690657 Seal-Governor Shaft 695 693149 Screw (Ring Gear) 1051 691265 Ring-Retaining Owner's Manual Screw (Reverhaul Owner's Manual Screw (Alternator) Seal-O Ring (Solenoid Retainer) Seal-O Ring (Solenoid Retainer) Seal-O Ring (Oil Filter Cover) Seal-O Ring (Oil Filter Cover) Seal-O Ring (Oil Filter Cover | | | | | |
| 695 693149 Screw (Ring Gear) 1051 691265 Ring-Retaining 697 690372 Screw (Drive Cap) 1058 274794 Owner's Manual 703 691010 Clip 1058 274794 Owner's Manual 710 697474 Cover-Oil Filter 1090 691058 Screw (Flywheel Fan) 718 690959 Pin-Locating 1095 694013 Kit-Valve Overhaul 726 499612 Gear-Ring 1100 690973 Pivot-Rocker Arm 741 690980 Gear-Pining 1112 690987 \$ Seal-O Ring (Solenoid Retainer) 742 69033 Screw (Oil Pump Cover) 1124 690987 \$ Seal-O Ring (Fuel Transfer Tube) 783 693058 Gear-Pinion 1126 690991 Screw (Float Bowl) 784 691039 Bracket-Fuel Pump 1128 690990 Screw (Carburetor Nozzle) 797 691202 Nut (Brush Retainer) 1189 693140 Screw (Carburetor Cover Plate) 7974 6931 | | | | | |
| 697 690372 Screw (Drive Cap) 1058 274794 Owner's Manual 703 691010 Clip 1070 691058 Screw (Flywheel Fan) 710 697474 Cover-Oil Filter 1095 694013 Kit-Valve Overhaul 726 499612 Gear-Ring 100 690973 Pivot-Rocker Arm 741 690980 Gear-Timing 1119 691183 Screw (Alternator) 742 690328 Retainer-E Ring 1123 690987 Ø ‡ Seal-O Ring (Solenoid Retainer) 750 691033 Screw (Oil Pump Cover) 1124 690988 Ø ‡ Seal-O Ring (Fuel Transfer Tube) 788 691039 Bracket-Fuel Pump 1127 690992 Screw (Float Bowl) 789 695050 Harness-Wiring 1128 690990 Screw (Carburetor Nozzle) 797A 693167 Nut (Brush Retainer) 1280 697475 Seal-O Ring (Oil Filter Cover) 798 690967 Screw (Rocker Arm) RPM Settings: Low Speed: 1900-2100 803 691262 Housing-Starter (Used After Code Date 02040200) Included in Carburetor Oxerhaul Kit, | | | | | |
| 703 691010 Clip 1070 691058 Screw (Flywheel Fan) 710 697474 Cover-Oil Filter 1090 691293 Retainer-Brush 718 690959 Pin-Locating 1095 694013 Kit-Valve Overhaul 726 499612 Gear-Ring 1100 690973 Pivot-Rocker Arm 741 690328 Retainer-E Ring 1123 690987 Ø ± Seal-O Ring (Fuel Transfer Tube) 742 690328 Gear-Pinion 1124 690987 Ø ± Seal-O Ring (Fuel Transfer Tube) 783 693058 Gear-Pinion 1126 690991 Screw (Float Bowl) 784 691039 Bracket-Fuel Pump 1127 690992 Screw (Carburetor Nozzle) 797 693167 Nut (Brush Retainer) 1128 690940 Screw (Carburetor Nozzle) 7974 693167 Nut (Brush Retainer) 1280 697475 Seal-O Ring (Oil Filter Cover) 798 690967 Screw (Rocker Arm) RPM Settings: Low Speed: 1900-2100 High Speed: 300-3200 802 691283 Cap-End Ø Included in Carburetor Ov | | | | | |
| 710 697474 Cover-Oil Filter 1090 691293 Retainer-Brush 718 690959 Pin-Locating 1095 694013 Kit-Valve Overhaul 726 499612 Gear-Timing 1095 694013 Kit-Valve Overhaul 741 690980 Gear-Timing 1119 691183 Screw (Alternator) 742 690328 Retainer-E Ring 1123 690987 Ø ± Seal-O Ring (Solenoid Retainer) 783 693058 Gear-Pinion 1126 690991 Screw (Float Bowl) 783 693050 Harness-Wiring 1126 690990 Ø Screw (Float Bowl) 797 691029 Nut (Brush Retainer) 1128 690990 Ø Screw (Carburetor Nozzle) 797 691283 Cap-Drive 1280 697475 Seal-O Ring (Oil Filter Cover) 798 690967 Screw (Rocker Arm) 1280 697475 Seal-O Ring (Oil Filter Cover) 803 691283 Cap-End Included in Engine Gasket Set, Key. No. 121 8034 693757 Housing-Starter (Used After Code Date 02040200) Included in Carburetor Overhaul Kit, Key. No. | | | | | |
| 718690959Pin-Locating1095694013Kit-Valve Overhaul726499612Gear-Ring1100690973Pivot-Rocker Arm741690980Gear-Timing1119691183Screw (Alternator)742690328Retainer-E Ring1123690987Ø \$ Seal-O Ring (Solenoid Retainer)750691033Screw (Oil Pump Cover)1124690988Ø \$ Seal-O Ring (Fuel Transfer Tube)788691039Bracket-Fuel Pump1126690991Screw (Float Bowl)789695050Harness-Wiring1128690990Ø Screw (Carburetor Nozzle)797691029Nut (Brush Retainer)1128690990Ø Screw (Carburetor Cover Plate)798690967Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-DriveRPM Settings:Low Speed: 1900-2100802691286Cap-EndBosing-StarterUsed After Code Date 02040200)Included in Carburetor Overhaul Kit, Key. No. 121803A693757Housing-Starter (Used After Code Date 02040200)Included in Carburetor Overhaul Kit, Key. No. 1095842691031Seal-Dipstick/Tube Dipstick/TubeSpeakplugNOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691011Adapter-Air Gover-Air GuideCover-Air GuideSciede855691012Cover-Air GuideCover-Air Guide856691012Cover-Air GuideCover-Air Guide | | | | | |
| 726 499612 Gear-Ring 1100 690973 Pivot-Rocker Arm 741 690980 Gear-Timing 1119 691183 Screw (Alternator) 742 690328 Retainer-E Ring 1123 690987 Ø ± Seal-O Ring (Solenoid Retainer) 750 691033 Screw (Oil Pump Cover) 1124 690988 Ø ± Seal-O Ring (Fuel Transfer Tube) 783 693058 Gear-Pinion 1126 690991 Screw (Fuel Transfer Tube) 784 691039 Bracket-Fuel Pump 1127 690990 Ø Screw (Carburetor Nozzle) 797 691029 Nut (Brush Retainer) 1128 690990 Ø Screw (Carburetor Nozzle) 797A 693167 Nut (Brush Retainer) 1280 697475 Seal-O Ring (Oil Filter Cover) 798 690967 Screw (Rocker Arm) RPM Settings: Low Speed: 1900-2100 High Speed: 3000-3200 801 691286 Cap-End Included in Carburetor Overhaul Kit, Key. No. 121 Housing-Starter (Used After Code Date 02040200) Included in Carburetor Overhaul Kit, Key. No. 121 Houlded in Valve Overhaul Kit, Key. No. 1095 842 691031 < | | | | | |
| 741690980Gear-Timing1119691183Screw (Alternator)742690328Retainer-E Ring1123690987Ø ‡Seal-O Ring (Solenoid Retainer)750691033Screw (Oil Pump Cover)1124690988Ø ‡Seal-O Ring (Fuel Transfer Tube)783693058Gear-Pinion1126690991Screw (Fuel Transfer Tube)789695050Harness-Wiring1128690990Ø Screw (Fuel Transfer Tube)797691029Nut (Brush Retainer)1128690990Ø Screw (Carburetor Nozzle)797693167Nut (Brush Retainer)1280697475Seal-O Ring (Oil Filter Cover)798690967Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-Drive1280697475Seal-O Ring (Oil Filter Cover)803691262Housing-Starter (Service with 691262 Starter Motor)RPM Settings:Low Speed: 1900-2100 High Speed: 3000-3200802691283Cap-EndØIncluded in Carburetor Overhaul Kit, Key. No. 121 ±803A693757Housing-Starter (Used After Code Date 02040200)•Included in Carburetor Gasket Set, Key. No. 977 ±842691011•Seal-Dipstick/Tube Dipstick/Tube Assembly•Included in Carburetor Gasket Set, Key. No. 1095855691012Cover-Air GuideCover-Air Guide**855691014Cover-Air GuideCover-Air Guide=865A691014Cover-Air G | | | | | |
| 742690328Retainer-E Ring1123690987Ø ‡Seal-O Ring (Solenoid Retainer)750691033Screw (Oil Pump Cover)1124690988Ø ‡Seal-O Ring (Fuel Transfer Tube)788691039Bracket-Fuel Pump1126690991Screw (Fuel Transfer Tube)789695050Harness-Wiring1126690992Screw (Fuel Transfer Tube)797691029Nut (Brush Retainer)1128690990Ø Screw (Carburetor Nozzle)797A693167Nut (Brush Retainer)1128690990Ø Screw (Carburetor Cover Plate)79869067Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-Drive1280697475Seal-O Ring (Oil Filter Cover)802691262Cap-EndRPM Settings:Low Speed: 1900-2100803691262Housing-StarterØIncluded in Carburetor Overhaul Kit, Key. No. 3580Included in Carburetor Overhaul Kit, Key. No. 121Housing-Starter (Used After Code Date 02040200)Ø842691031Seal-Dipstick/TubeØIncluded in Valve Overhaul Kit, Key. No. 1095842691031Seal-Dipstick/Tube Dipstick/Tube Assembly 855691011Adapter-Air Guide855691012Cover-Air GuideCover-Air GuideNOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691014Cover-Air GuideCover-Air GuideSeal-O Ring Guide | | | | | |
| 750691033Screw (Oil Pump Cover)1124690988 Ø ‡Seal-O Ring (Fuel Transfer Tube)783693058Gear-Pinion1126690991Screw (Fuel Transfer Tube)784691039Bracket-Fuel Pump1126690991Screw (Fuel Transfer Tube)789695050Harness-Wiring1128690990Ø Screw (Fuel Transfer Tube)797691029Nut (Brush Retainer)1128690990Ø Screw (Carburetor Nozzle)797A693167Nut (Brush Retainer)1280697475Seal-O Ring (Oil Filter Cover)798690967Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-DriveRPM Settings:Low Speed: 1900-2100802691262Housing-Starter (Service with 691262 Starter Motor)Included in Engine Gasket Set, Key. No. 358ØIncluded in Carburetor Overhaul Kit, Key. No. 121t803A693757Seal-Dipstick/Tube842691031Seal-Dipstick/Tube847499602Dipstick/Tube Assembly855691011Adapter-Air865691012Cover-Air Guide865A691014Cover-Air Guide | | | 1123 | | |
| 783 693058 Gear-Pinion 1126 690991 Screw (Fuel Transfer Tube) 788 691039 Bracket-Fuel Pump 1127 690992 Screw (Float Bowl) 789 695050 Harness-Wiring 1128 690990 Ø Screw (Carburetor Nozzle) 797 691029 Nut (Brush Retainer) 1128 690990 Ø Screw (Carburetor Nozzle) 798 690967 Screw (Rocker Arm) 1280 697475 Seal-O Ring (Oil Filter Cover) 801 691283 Cap-Drive RPM Settings: Low Speed: 1900-2100 802 691262 Cap-End RPM Settings: Low Speed: 1900-2100 803 691262 Housing-Starter Included in Engine Gasket Set, Key. No. 358 Ø Included in Carburetor Overhaul Kit, Key. No. 121 Included in Carburetor Qerhaul Kit, Key. No. 121 803 693757 Housing-Starter (Used After Code Date 02040200) Ø Included in Carburetor Gasket Set, Key. No. 977 842 691031 Seal-Dipstick/Tube Dipstick/Tube Dipstick/Tube Adapter-Air Sofe 691011 Adapter-Air 855 691011 Adapter-Air Gover-Air Guide Cover-Air Guide Sof | | | 1124 | | |
| 789695050Harness-Wiring1128690900Ø Screw (Carburetor Nozzle)797691029Nut (Brush Retainer)1169693140Screw (Carburetor Nozzle)797693167Nut (Brush Retainer)1280697475Seal-O Ring (Oil Filter Cover)798690967Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-DriveLow Speed: 1900-2100High Speed: 3000-3200802691286Cap-EndNotsing-StarterLow Speed: 1900-2100803A693757Housing-Starter (Used After Code Date 02040200)Included in Engine Gasket Set, Key. No. 358842691031Seal-Dipstick/TubeIncluded in Carburetor Gasket Set, Key. No. 977842691031Seal-Dipstick/TubeNOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691012Cover-Air GuideCover-Air Guide865A691014Cover-Air GuideScrew Air Guide | 783 693058 | | | | Screw (Fuel Transfer Tube) |
| 797691029Nut (Brush Retainer)1169693140Screw (Carburetor Cover Plate)797693167Nut (Brush Retainer)1280697475Seal-O Ring (Oil Filter Cover)798690967Screw (Rocker Arm)1280697475Seal-O Ring (Oil Filter Cover)801691283Cap-DriveLow Speed: 1900-2100802691286Cap-EndNutit (Brush Retainer)Nutit (Brush Retainer)803691262Housing-StarterNutit (Service with 691262 Starter Motor)Note: Included in Engine Gasket Set, Key. No. 358803693757Housing-Starter (Used After Code Date 02040200)Included in Carburetor Overhaul Kit, Key. No. 121842691031Seal-Dipstick/TubeIncluded in Carburetor Gasket Set, Key. No. 1095842691011Adapter-AirAdapter-Air865691012Cover-Air GuideCover-Air Guide865A691014Cover-Air GuideCover-Air Guide | 788 691039 | Bracket-Fuel Pump | | | |
| 797A693167Nut (Brush Retainer)1280697475Seal-O Ring (Oil Filter Cover)798690967Screw (Rocker Arm)Low Speed: 1900-2100801691283Cap-DriveLow Speed: 3000-3200802691286Cap-EndHousing-Starter803691262Housing-Starter (Used After Code Date 02040200)Included in Carburetor Overhaul Kit, Key. No. 358842691031• Seal-Dipstick/Tube Dipstick/Tube Assembly• Included in Carburetor Gasket Set, Key. No. 977 + Included in Valve Overhaul Kit, Key. No. 1095842691031• Seal-Dipstick/Tube Dipstick/Tube Assembly• MOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691011Adapter-Air Cover-Air GuideCover-Air Guide | | | | | |
| RPM Settings: Low Speed: 1900-2100 High Speed: 3000-3200 Included in Engine Gasket Set, Key. No. 358 Included in Carburetor Overhaul Kit, Key. No. 121 Included in Carburetor Gasket Set, Key. No. 977 Housing-Starter (Used After Code Date 02040200) Seal-Dipstick/Tube Seal-Dipstick/Tube Assembly Seal-Dipstick/Tube Assembly Terminal-Sparkplug Seast Gental Adapter-Air Cover-Air Guide Cover-Air Guide | | | | | |
| 801691283 691286Cap-Drive Cap-EndHigh Speed: 3000-3200802691286 691262Cap-End Housing-Starter (Service with 691262 Starter Motor)• Included in Engine Gasket Set, Key. No. 358 Ø Included in Carburetor Overhaul Kit, Key. No. 121 ‡ Included in Carburetor Gasket Set, Key. No. 977 + Included in Valve Overhaul Kit, Key. No. 1095842691031 02040200)• Seal-Dipstick/Tube Dipstick/Tube Assembly Terminal-Sparkplug• MOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691011 865AAdapter-Air Cover-Air GuideCover-Air Guide | | | | | |
| 802 691286 Cap-End 803 691262 Housing-Starter (Service with 691262 Starter Motor) 803A 693757 Housing-Starter (Used After Code Date 02040200) 842 691031 • Seal-Dipstick/Tube Dipstick/Tube Assembly 851 493880 Terminal-Sparkplug 855 691011 Adapter-Air 865 691012 Cover-Air Guide 865A 691014 Cover-Air Guide | | | RPINI | Settings: | |
| 803 691262 Housing-Starter (Service with 691262 Starter Motor) 803A 693757 Housing-Starter (Used After Code Date 02040200) 842 691031 • Seal-Dipstick/Tube Dipstick/Tube Assembly 851 493880 Terminal-Sparkplug 855 691011 Adapter-Air 865 691012 Cover-Air Guide 865A 691014 Cover-Air Guide • Included in Engine Gasket Set, Key. No. 358 Included in Carburetor Overhaul Kit, Key. No. 121 • Included in Carburetor Gasket Set, Key. No. 977 • Included in Valve Overhaul Kit, Key. No. 1095 • NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm | | | | | High Speed: 3000-3200 |
| 803A693757(Service with 691262 Starter Motor) Housing-Starter (Used After Code Date 02040200)ØIncluded in Carburetor Overhaul Kit, Key. No. 121803A693757Housing-Starter (Used After Code Date 02040200)ØIncluded in Carburetor Overhaul Kit, Key. No. 977 + Included in Valve Overhaul Kit, Key. No. 1095842691031• Seal-Dipstick/Tube Dipstick/Tube Assembly Terminal-SparkplugØIncluded in Carburetor Overhaul Kit, Key. No. 977 + Included in Valve Overhaul Kit, Key. No. 1095851493880Terminal-Sparkplug Adapter-AirNOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691012Cover-Air Guide Cover-Air GuideCover-Air Guide | | | • | Included in F | Engine Gasket Set, Key, No. 358 |
| 803A693757Housing-Starter (Used After Code Date 02040200)1Included in Carburetor Gasket Set, Key. No. 977 + Included in Valve Overhaul Kit, Key. No. 1095842691031 847• Seal-Dipstick/Tube Dipstick/Tube Assembly Terminal-Sparkplug• Seal-Dipstick/Tube Assembly Terminal-SparkplugNOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm855691011 R65Adapter-Air Cover-Air GuideCover-Air Guide | 803 091202 | (Service with 601262 Starter Motor) | | Included in (| Carburetor Overbaul Kit Key No. 121 |
| 02040200)+Included in Valve Overhaul Kit, Key. No. 1095842691031•Seal-Dipstick/Tube847499602Dipstick/Tube AssemblyNOTE: All component dimensions given in U.S. inches 1 inch851493880Terminal-Sparkplug= 25.4 mm855691011Adapter-Air= 25.4 mm865691012Cover-Air GuideCover-Air Guide | 8034 603757 | | | Included in (| Carburetor Gasket Set, Key, No. 977 |
| 847499602Dipstick/Tube AssemblyNOTE: All component dimensions given in U.S. inches 1 inch851493880Terminal-Sparkplug= 25.4 mm855691011Adapter-Air= 25.4 mm865691012Cover-Air GuideCover-Air Guide865A691014Cover-Air Guide= 25.4 mm | | 02040200) | | | |
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