

MODEL NO. 944.605880





CRAFTSMAN®

18.5 HP ELECTRIC START 42" MOWER AUTOMATIC LAWN TRACTOR

- Assembly
- Operation
- Maintenance
- 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 mower-related 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 build-up 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.





- 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.



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



WARNING: 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.



WARNING: 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:	2.0 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 t 10W-30 motor oil.	he factory with no	on-synthetic SAE
Oil Capacity:	W/ Filter: W/O Filter:	
Spark Plug: (Gap: .030")	Champion R	C12YC
Ground Speed (MPH):	Forward: Reverse:	5.5 2.4
Tire Pressure:	Front: Rear:	14 PSI 10 PSI
Charging System:	3 Amps Batte 5 Amps Head	
Battery:	AMP/HR: MIN. CCA: Case Size:	230
Blade Bolt Torque:	27-35 FT. LB	S.

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".

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 "Maintenance" and "Storage" sections of this owner's manual.

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

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

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:

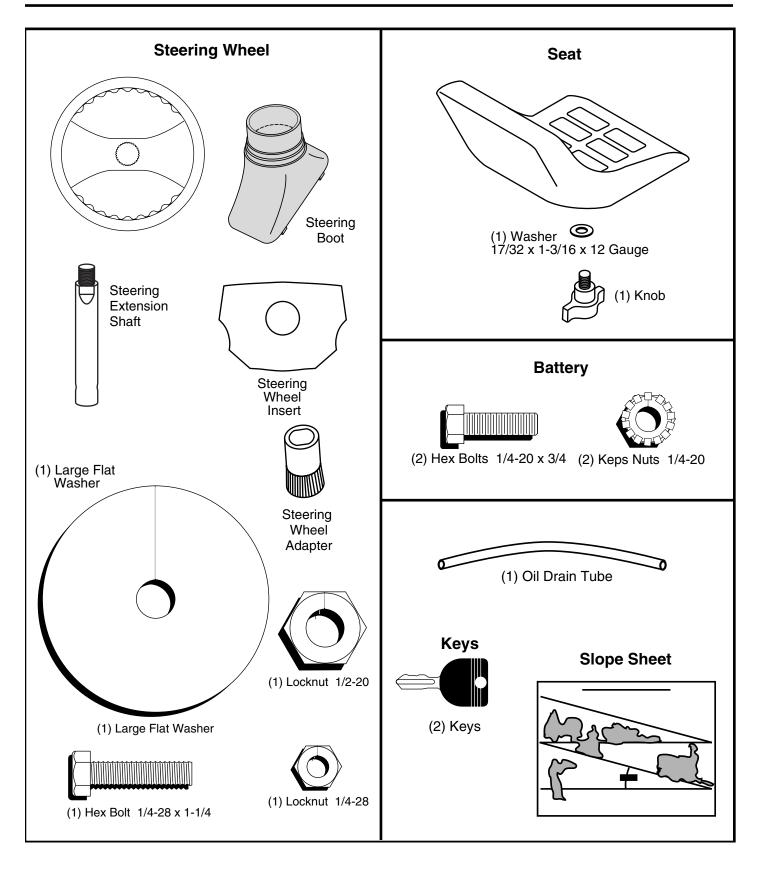
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse 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) 3/4" wrench
- (2) 7/16" wrenches

Pliers Tire pressure gauge Utility knife

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton.
- Cut along dotted lines on all four panels of carton. Remove end panels and lay side 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 1/4 hex bolt and locknut. Tighten securely.

IMPORTANT: TIGHTEN BOLT AND NUT SECURELY TO 10-12 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, 1/2 hex nut 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.

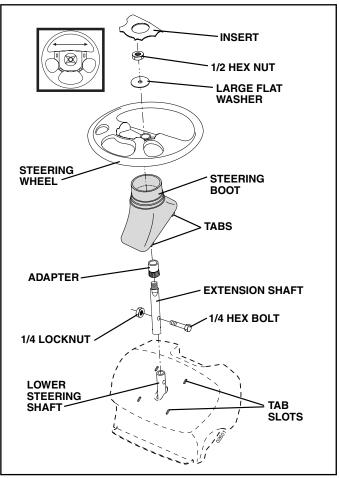


FIG. 1

HOW TO SET UP YOUR TRACTOR

INSTALL SEAT (See Fig. 2)

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.

ASSEMBLY

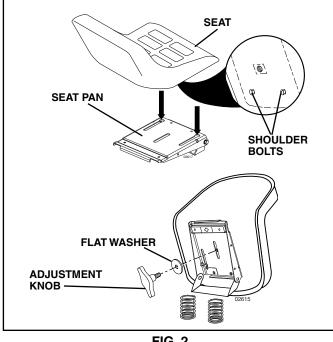
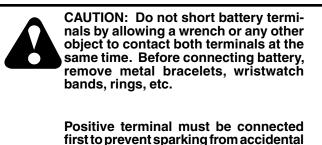


FIG. 2

CONNECT BATTERY (See Figs. 3 and 4)



grounding.

- Lift seat pan to raised position.
- 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. (See "BATTERY" in the Maintenance section of this manual for charging instructions).
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal.
- Connect BLACK grounding cable to negative (-) ter-• minal with remaining hex bolt and keps nut. Tighten securely.

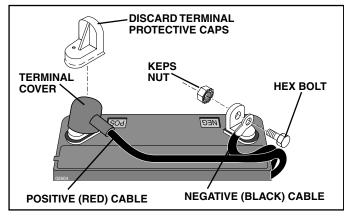


FIG. 3

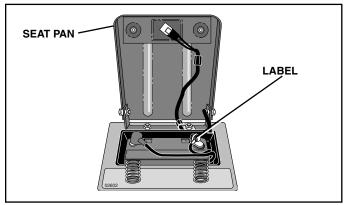


FIG. 4

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 "TO TRANSPORT" 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)

WARNING: 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.

ASSEMBLY

- 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.

Continue with the instructions that follow.

INSTALL MULCHER PLATE (See Fig. 5)

(If previously removed)

- 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.

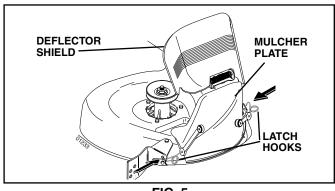


CAUTION: Do not remove deflector shield from mower.

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 "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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.

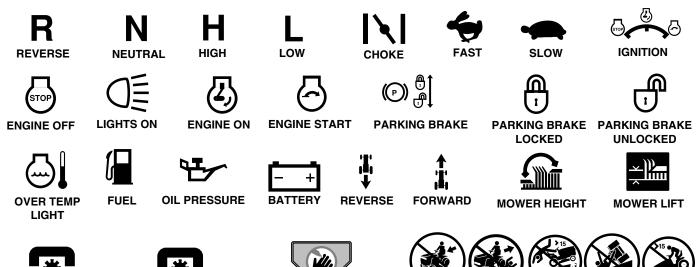
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ 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.

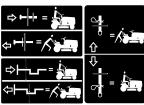
WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ 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.



ATTACHMENT ATTACHMENT CLUTCH ENGAGED CLUTCH DISENGAGED



FREE WHEEL (Automatic Models only)



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.

DANGER, KEEP HANDS AND FEET AWAY

KEEP AREA CLEAR SLOPE HAZARDS (SEE SAFETY RULES SECTION)

(SEE SAFETY RULES SECTION)



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazard which, if not avoided, **might result in minor or moderate injury.**

CAUTION when used **without** the alert symbol, indicates a situation that **could result in damage to the tractor and/or engine.**



HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

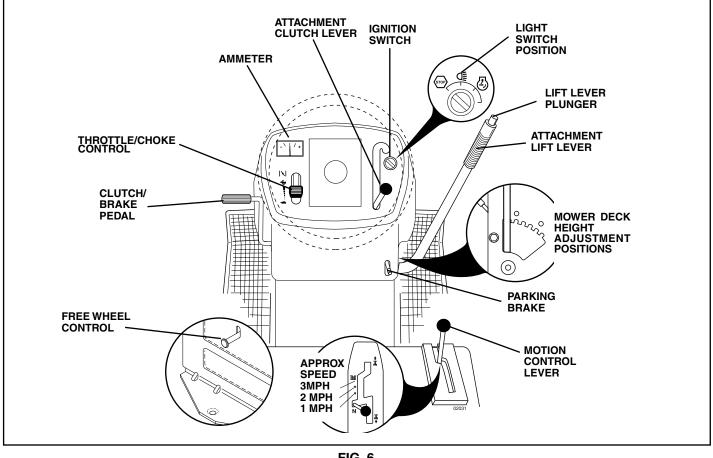


FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

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 POSITION - Turns the headlights on and off.

THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed.

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

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

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. 7)

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

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

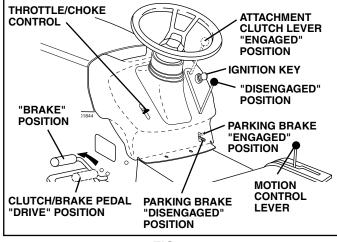


FIG. 7

STOPPING (See Fig. 7)

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. 7)

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD (See Fig. 7)

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. 7)

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. 8)

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.

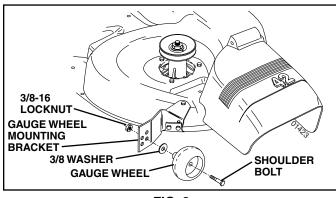


FIG. 8

TO OPERATE MOWER (See Fig. 9)

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. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- 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.

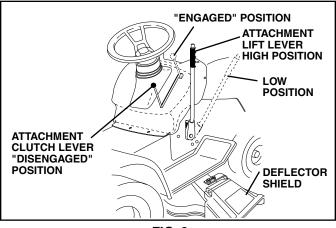


FIG. 9

TO OPERATE ON HILLS



WARNING: 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. 6 and 10)

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.

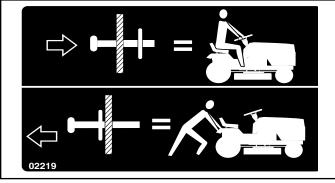


FIG. 10

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

TOWING CARTS AND OTHER ATTACHMENTS

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

12

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.

- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

• Fill fuel tank to bottom of filler neck. Do not overfill. 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.



CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

CAUTION: 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.

TO START ENGINE (See Fig. 6)

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 choke position.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

• When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

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 also be used during the engine warm-up period after the transmission has been warmed up.

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 "TOTRANSPORT" 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. 11).

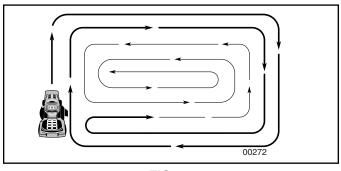


FIG. 11

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

AS	MAINTENANCE SCHEDUL LL IN DATES YOU COMPLETE GULAR SERVICE	E	DEFORE	EACHU	HOURS	5 HOUR 5	SHOUP	NO HOU	SEASON SEASON SEFORE	TORAGE SERVIC	CE DATES
	Check Brake Operation	~	V						r		
	Check Tire Pressure	~	V								
т	Check Operator Presence and Interlock Systems	V									
R	Check for Loose Fasteners	~				V 5		V			
A	Sharpen/Replace Mower Blades			V ₃							
C T	Lubrication Chart			~				V			
ò	Check Battery Level			V 4							
Ř	Clean Battery and Terminals			~				V			
	Check Transaxle Cooling			~							
	Check V-Belts					/					
	Check Engine Oil Level	~	V								
	Change Engine Oil (with oil filter)				1 ,2	2		1			
E	Change Engine Oil (without oil filter)			1 ,2				~			
N	Clean Air Filter			✓ 2							
Ģ	Clean Air Screen			V 2							
N	Inspect Muffler/Spark Arrester				V						
E	Replace Oil Filter (If equipped)					1,2					
	Clean Engine Cooling Fins					1 2					
	Replace Spark Plug					1	1				
	Replace Air Filter Paper Cartridge					V 2					
	Replace Fuel Filter						V				

1 - Change more often when operating under a heavy load or

in high ambient temperatures.

2 - Service more often when operating in dirty or dusty conditions.

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.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

• At least 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

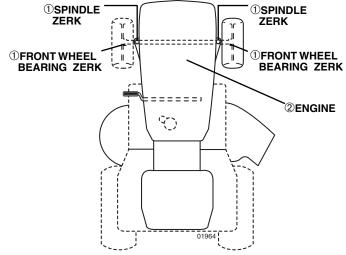
- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

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 MAINTENANCE "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

TRACTOR

Always observe safety rules when performing any main-tenance.

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

IMPORTANT: BLADE BOLT IS HEATTREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVE BOLT SHOWN IN THE REPAIR PARTS.

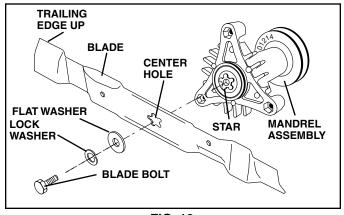


FIG. 12

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.

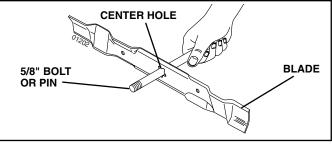


FIG. 13

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.

- 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.

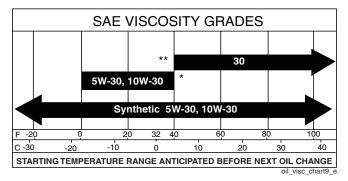


FIG. 14

* **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 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

TO CHANGE ENGINE OIL (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF-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 end of drain valve and install the drain tube onto the fitting.

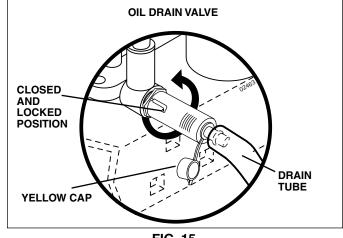


FIG. 15

- 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. Tighten cap onto the tube securely when finished.

ENGINE OIL FILTER

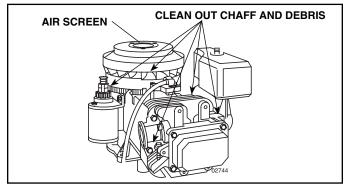
Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

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.

ENGINE COOLING SYSTEM (See Fig. 16)

Debris may clog the engine's air cooling system. Remove blower housing and clean the area shown to prevent overheating and engine damage.





AIR FILTER (See Fig. 17)

Your engine will not run properly using a dirty air filter. Replace 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.

- Pull up on air filter cover handle and rotate towards engine.
- Remove cover.
- Carefully remove air filter cartridge and pre-cleaner from base.
- Clean base carefully to prevent debris from falling into carburetor.

NOTE: If very dirty or damaged, replace cartridge.

- Place new pre-cleaner and cartridge firmly in base.
- Align tabs on cover with slots in blower housing and replace cover.
- Hook handle on cover and push down on handle to close.

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 cartridge.

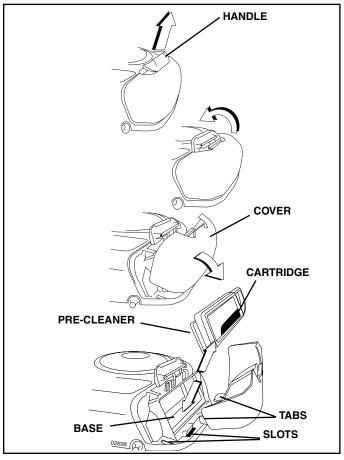


FIG. 17

MUFFLER

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

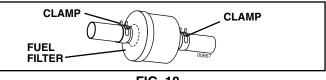
SPARK PLUGS

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. 18)

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

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



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 or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.

SERVICE AND ADJUSTMENTS



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUST-MENTS:

- 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 to "STOP" 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

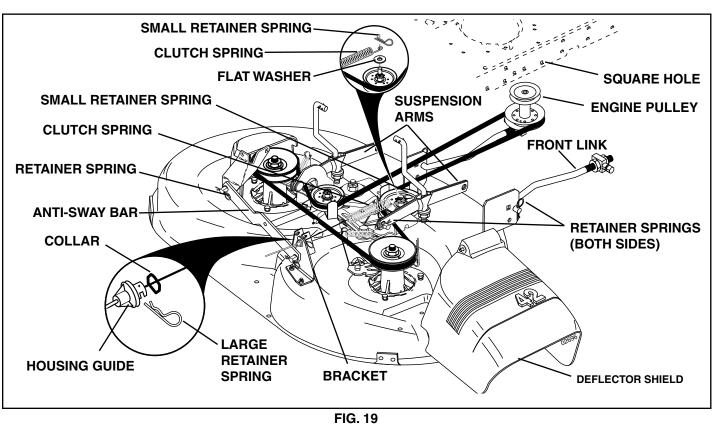
TO REMOVE MOWER (See Fig. 19)

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 remove 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 TRACTOR, REMOVE THE FRONTLINKS AND HOOKTHE CLUTCH SPRING INTO SQUARE HOLE IN FRAME.



TO INSTALL MOWER (See Fig. 19)

- 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.
- Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- Install belt onto engine pulley.

TO LEVEL MOWER HOUSING

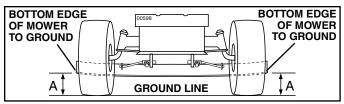
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

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

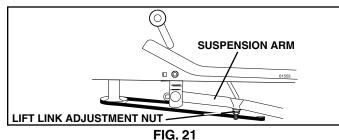
- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise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

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

Recheck measurements after adjusting.





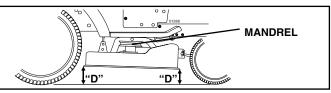


FRONT-TO-BACK ADJUSTMENT (See Figs. 22 and 23) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

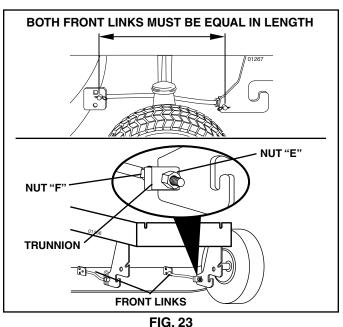
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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. The two front links must remain equal in length.
- 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. 24)

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.

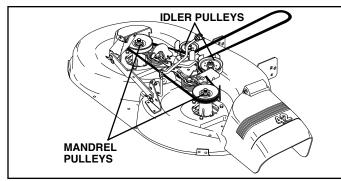


FIG. 24

TO CHECK AND ADJUST BRAKE (See Fig. 25)

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

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted.

TO CHECK BRAKE

- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewhel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced. TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down 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".
- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.

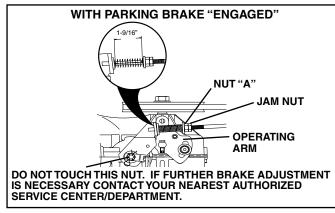


FIG. 25

TO REPLACE MOTION DRIVE BELT (See Fig. 26)

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

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

NOTE: Observe entire motion drive belt and position of all belt guides and keepers.

- Řemove belt from stationary idler and clutching idler.
- Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.
- Remove belt from center span keeper and pull belt away from tractor. BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Slide belt into the center span keeper.
- Pull belt toward front of tractor and roll around the top groove of engine pulley.
- Install belt through stationary idler and clutching idler.
- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

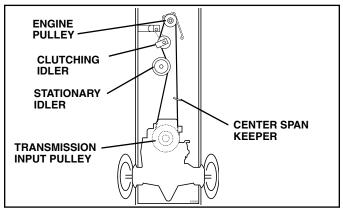


FIG. 26

TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 27)

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.

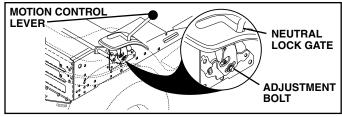


FIG. 27

TRANSMISSION REMOVAL/REPLACEMENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGETRANSMISSION" 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. 28)

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

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.

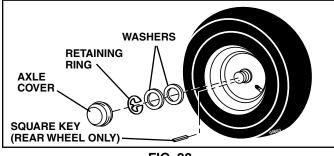


FIG. 28

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



WARNING: 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. (See "BATTERY" in the Maintenance section of this manual).

If "jumper cables" are used for emergency starting, follow this procedure:

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

TO ATTACH JUMPER CABLES -

- Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery.
- Connect the other end of the BLACK cable (D) to good chassis ground, away from fuel tank and battery.
- TO REMOVE CABLES, REVERSE ORDER -
- BLACK cable first from chassis and then from the fully charged battery.
- RED cable last from both batteries.

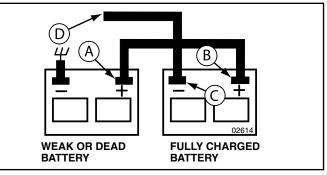


FIG. 29

TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

Check wiring. See electrical wiring diagram in the Repair Parts section.

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. 30)

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

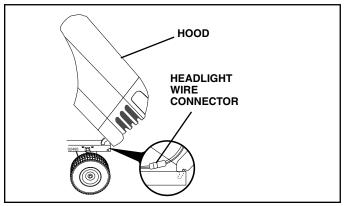


FIG. 30

ENGINE

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. 31)

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

- With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.
- Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.

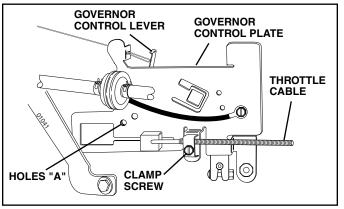


FIG. 31

TO ADJUST CARBURETOR (See Fig. 32)

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

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

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

IMPORTANT: DAMAGE TO THE NEEDLE VALVE AND THE SEAT IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Air cleaner assembly must be assembled to the carburetor when making carburetor adjustments.
- Be sure the throttle control cable is adjusted properly (see above).

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (**N**) position.
- Move throttle control lever to slow position. With finger, rotate and hold throttle lever against idle speed screw. Turn idle speed screw to attain 1750 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture valve full travel clockwise then counterclockwise until engine runs rough. Turn valve to a point midway between those two positions. Release throttle lever.

ACCELERATION TEST -

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

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

IMPORTANT: NEVERTAMPERWITHTHE 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, CONTACTYOUR NEAREST AUTHORIZED SERVICE CENTER/ DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

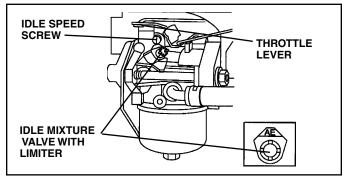


FIG. 32

STORAGE

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



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

BATTERY

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

ENGINE

FUEL SYSTEM

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

- Empty the fuel tank by starting 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 empty the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

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

CYLINDER(S)

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

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if 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.

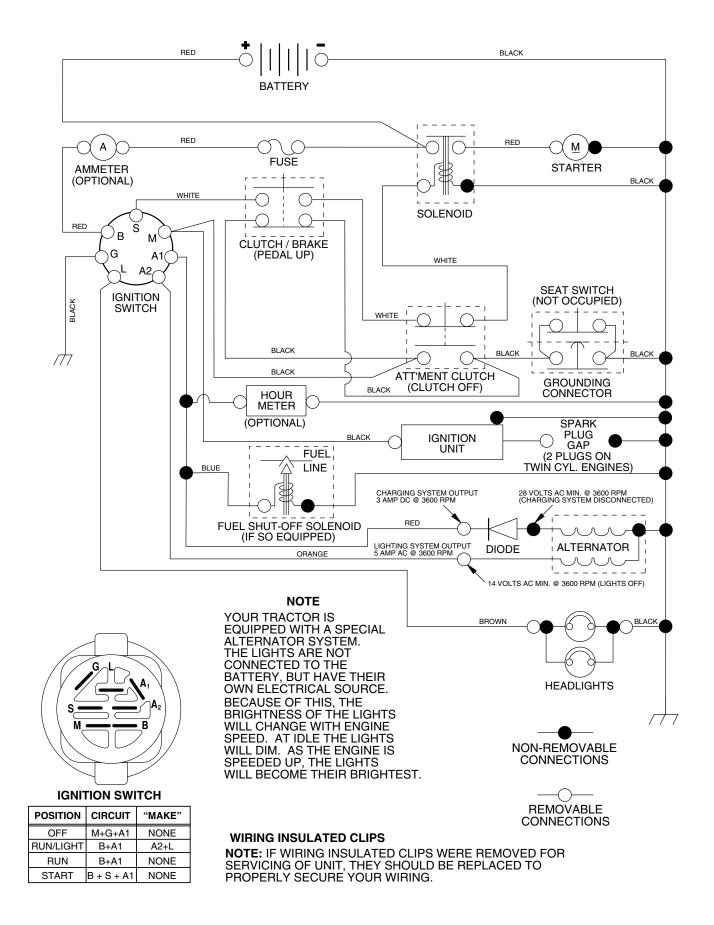
TROUBLESHOOTING POINTS

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. Empty 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 1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.		 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
ngine will not turn over1. Brake pedal not depressed.2. Attachment clutch is engaged.3. Weak or dead battery.4. Blown fuse.5. Corroded battery terminals.6. Loose or damaged wiring.7. Faulty ignition switch.8. Faulty solenoid or starter.9. Faulty operator presence switch(es).		 Depress 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 start1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. 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. 	 Raise cutting height/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. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Excessive vibration1. Worn, bent or loose blade.2. Bent blade mandrel.3. Loose/damaged part(s).		 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

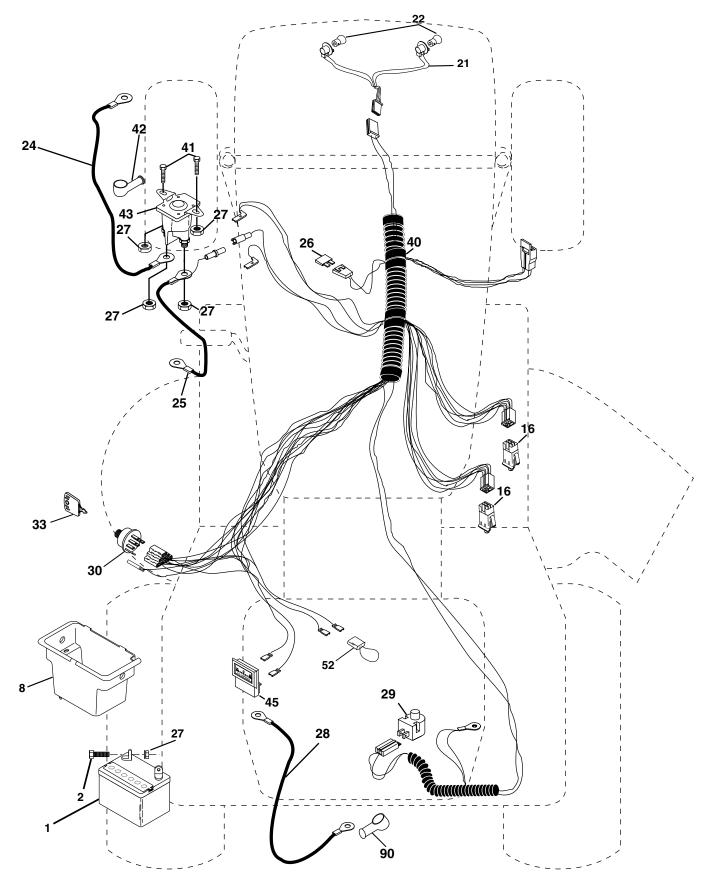
PROBLEM	CAUSE	CORRECTION
Engine continues to run when operator leaves seat with attachment clutch engaged	1. Faulty operator-safety presence control system.	 Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.
Poor cut - uneven	 Worn, bent or loose 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.

SCHEMATIC



TRACTOR - - MODEL NUMBER 944.605880

ELECTRICAL



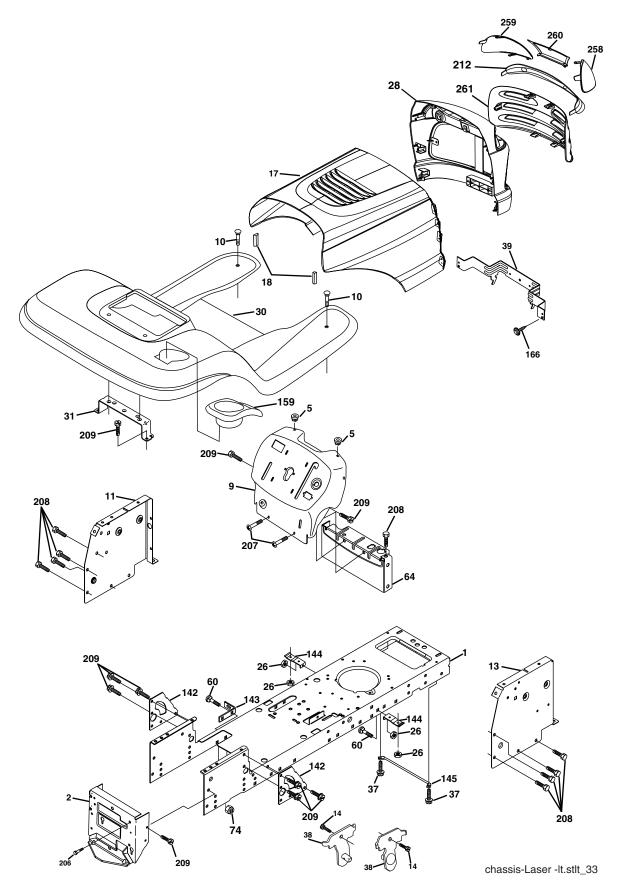
TRACTOR - - MODEL NUMBER 944.605880

ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1 2 8 16 21 22 24 25 26 27 28 29 30 33 40 41 42 43 45 52 90	4799J 146147	Battery Bolt Hex Hd 1/4-20 unc x 3/4 Box Battery Switch Interlock Push-In Harness Asm Light W/4152J Bulb Light #1156 Cable Battery 6 Ga. 11"red Cable Battery Fuse Nut Keps Hex 1/4-20 unc Cable Ground 6 Ga. 12" black Switch Plunger Gray Switch Ign 3 Key Ign Harness Ign Bolt Blk Fin Hex 1/4-20 unc x 1/2 Cover Terminal Red Solenoid Ammeter Protection Wire Loop (Hourmeter) Cover Terminal

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

TRACTOR - - MODEL NUMBER 944.605880 CHASSIS AND ENCLOSURES



TRACTOR - - MODEL NUMBER 944.605880

CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis Stl Stamping
2	176554	Drawbar, Stretch
5	155272	Bumper Hood/Dash
9 10	168337X011 STD533710	
11	174996	Panel Dash Lh
13		Panel Dash Rh
14	17490608	
17	185682X613	
18	184921	Bumper Hood
26	STD541437	
28	184247	Grille/Lens Asm (Includes Key nos. 212, 258-261)
30		Fender Footrest STLT Pnt
31	139976	Bracket Support Fender
37 38	17490508	Screw Thdrol 5/16-18 X1/2 Bracket Asm. Pivot Mower Rear
30 39	175710 174714	Bracket Pivot Laser LT
60	STD533707	
64	154798	Dash Lower STLT
74	STD541437	Nut Crownlock 3/8-16 unc
142	175702	Plate Reinforcement STLT
143	186689	Bracket Swaybar Chassis
	175582	Bracket Pnt Footrest STLT
	156524	Rod Pivot Chassis/Hood
159		
166		Screw HWHD Hi-Lo #13-16 x 3/4
200	170165 17670508	Bolt Shoulder 5/16-18 TT Screw Thdrol 5/16-18 x 1/2
207	17670608	Screw Thdrol 3/8-16 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
212		Insert Lens Reflective
258		Lens Laser RH
259	184246X599	Lens Laser LH
260	184250X428	Cover Lens Laser Insert Grille Laser
	5479J	Plug Button
NOTE		unt dimensione since in LLO, in shee

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

TRACTOR - - MODEL NUMBER 944.605880

DRIVE **159 158** ຝ Ũ Ø 56-41-50-, 150 Ð, 82 165 156 / 10 / 1 27-49[.] \bowtie (o 36 ₃₅ (Q α 84 ²⁷ 4 26 25 19 74 75 K ·26 73́ Ø

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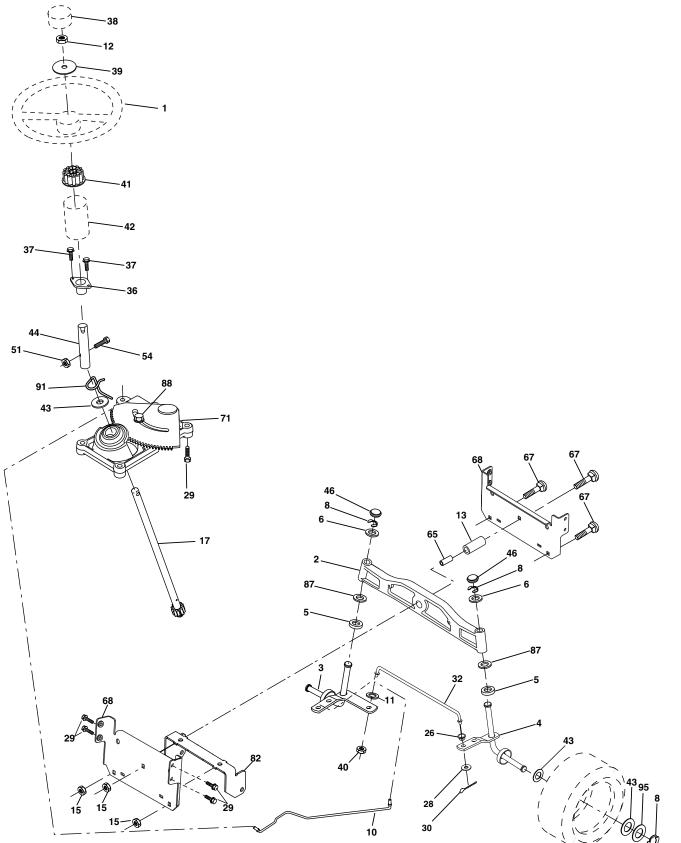
TRACTOR - - MODEL NUMBER 944.605880

DRIVE

		PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1			Transaxle (See Breakdown)	66	154778	Keeper Belt Engine
			Hydro Gear Model 314-0510	70	134683	Keeper Belt Engine
8		165866	Rod Shift	71	169183	Strap Torque Lh Hydro
1	0	STD561210	Pin Cotter 1/8 x 1 CAD	73	169182	Strap Torque Rh Hydro
1		10040400	Washer Lock Hvy. Helical	74	137057	Spacer, Split
	5	74490544	Bolt, Hex FLGHD 5/16-18 Gr. 5	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
1		STD541431	Nut Lock Hex W/Ins 5/16-18 unc P	76	STD581075	E-Ring
1		STD541437	Nut Lock Hex W/Wsh 3/8-16 unc	77	123583X	Key, Square
2		130564	Knob	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
2		169498	Rod, Brake Hydro	81	165596	Shaft Asm. Cross
2		STD541273	Nut	82	165711	Spring Torsion
2		106888X	Spring, Brake Rod	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
2		STD551037	Washer	84	169594	Link, Transaxle
2		STD561210	Pin Cotter 1/8 x 3/4 CAD.	89	164890X428	Console, Shift
2		175765	Rod, Parking Brake	90	124346X	Nut Self Thd Wsh-Hd 1/4 Zinc
2		71673	Cap, Parking Brake	95	170201	Control Asm Bypass Hydro
3		169592	Bracket, Transaxle	96	STD624003	Retainer Spring 1" Zinc/Cad
3		STD523107	Bolt Hex Hd 5/16-18 unc x 3/4	112	19091210	Washer 9/32 x 3/4 x 10 Ga.
3		175578	Shaft, Foot Pedal Nibbed	116	72140608	Bolt Rdhd Sq. Neck 3/8-16 x 1
3		120183X	Bearing, Nylon	120	73900600	Nut Lock Flg 3/8-16 unc
3 3		STD551062	Washer	150	175456	Spacer Retainer
3		STD571810 179114	Pin, Roll Bullow Idler, Composite	151	19133210	Washer 13/32 x 2 x 10 Ga.
3		72110622	Pulley, Idler, Composite Bolt Fin Hex 3/8-16 unc x 2-3/4 Gr.	156	166002	Washer Srrted 5/16 ID x 1 x .125
3	9	72110022	5	158	165589	Bracket Shift Mount
4	1	175556	Keeper, Belt Retainer	159	183900	Hub Shift
4		127783	Pulley, Idler, V-Groove	161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
4		154407	Bellcrank Clutch Grnd Drv STL	162	73680400	Nut Crownlock 1/4-20 unc
4		123205X	Retainer, Belt	163	74780416	Bolt Hex Fin 1/4-20 unc x 1 Gr. 5
5		72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr.5	165 166	165623	Bracket Pivot Lever
5		STD541437	Nut Crownlock 3/8-16 unc	168	17490510 165492	Screw 5/16-18 x 5/8 Bolt Shoulder 5/16-18 x .561
5		STD541431	Nut Crownlock 5/16-18 unc	169	165580	Plate Fastening LT
5		105710X	Link, Clutch	197	169613	Nyliner Snap-In 5/8" ID
5		105709X	Spring, Return, Clutch	198	169593	Washer Nyl 7/8" ID x .105"
5		17060620	Screw 3/8-16 x 1.0	199	169612	Bolt Shoulder 5/16-18 unc
5		140294	V-Belt, Ground Drive	200	72140508	Bolt Rdhd Sqnk 5/16-18 uncx 1
5		169691	Keeper, Center Span	202	72110614	Bolt 3/8-16 x 1-3/4 Gr. 5
6		17120614	Screw 3/8-16 x 3/4	212	145212	Nut Hex Flange Lock
6		8883R	Cover, Pedal	263	17000612	Screw 3/8-16 x .75
6		175410	Pulley, Engine			
6		173937	Bolt, Hex, 7/16-20 x 4 x Gr.5	NOT	E: All compone	ent dimensions given in U.S. inches
6	5	STD551143	Washer		1 inch = 25.4	4 mm

TRACTOR - - MODEL NUMBER 944.605880

STEERING ASSEMBLY



steering_pl.lt_47

TRACTOR - - MODEL NUMBER 944.605880

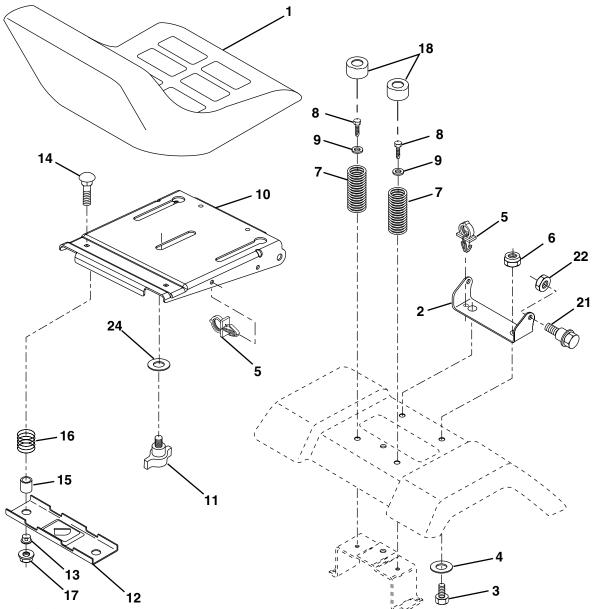
STEERING ASSEMBLY

KEY NO.		DESCRIPTION
1	184704X428	Wheel Steering
2 3	184706	Axle Asm
	169840	Spindle Asm LH
4	169839	Spindle Asm RH
5	6266H	Bearing Race Thrust Harden
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8 10	12000029	Ring Klip #t5304-75
11	175121 STD551127	Link Drag Extended Stamp
12	STD551137 73940800	Washer Lock Hvy Hici Spr 3/8
13	136518	Nut Hex Jam Toplock 1/2-20 unf
15	145212	Bearing Axle STLT/GT Nut Hex Flange Lock
17	180641	Shaft Asm Strg
26	126847X	Bushing Link Drag
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17000612	Screw Thdrol 3/8-16 x 3/4
30	76020412	Pin Cotter 1/8 x 3/4
32	130465	Rod Tie Wire Form 19 75 Mech
36	155099	Bushing Strg
37	152927	Screw
38	159946X428	
39	19182411	Washer 9/16 x 1-1/2 x 11 Ga.
40	73540600	Lock nut
41	159945	Adaptor Wheel Strg
42	145054X428	Boot Steering Shaft
43	121749X	Washer 25/32 x 1 1/4 x 16 Ga.
44	180640	Extension Steering Shaft
46	184946X505	Cap Spindle
51	73540400	Nut Crownlock 1/4-28
54	71130420	Bolt Hex 1/4-28 unf x 1-1/4 Gr. 8
65	160367	Spacer Axle
67	72110618	Bolt Rdhd Sq 3/8-16 unf x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm
82	169835	Bracket Susp. Chassis Front
87	173966	Washer, Flat, .781 x 1-1/2 x .14
88	175118	Shoulder Bolt 7/16-20
91	175553	Clip Steering
95	188967	Washer Hardened

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

TRACTOR - - MODEL NUMBER 944.605880

SEAT ASSEMBLY



seat_lt	.knob_8
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KEY PART NO. NO. DESCRIPTION

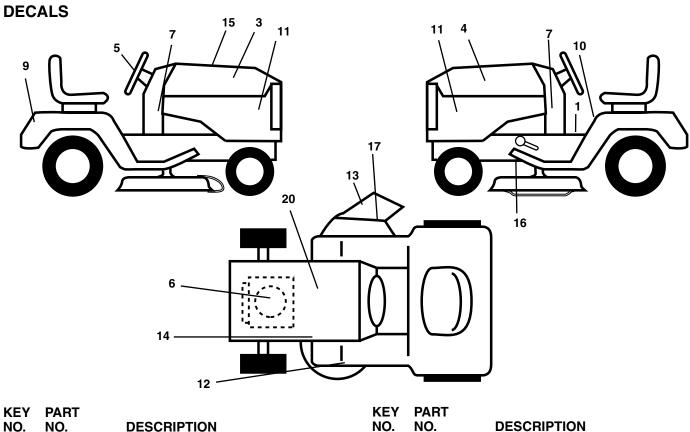
1	180597	Seat
2	180166	Bracket Pivot Seat 8 720
3	71110616	Bolt Fin Hex 3/8-16 unc x 1
4	19131610	Washer 13/32 x 1 x 10 Ga.
5	145006	Clip Push-In
6	STD541437	Nut Hex w/Ins. 3/8-16 unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17000616	Screw 3/8-16 x 1-1/2
9	19131614	Washer 13/32 x 1 x 14 Ga.
10	180186	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 Id
14	72050412	Bolt Rdhd Sqnk 1/4-20 x 1-1/2
15	134300	Spacer Split 28 x 96 Yel Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Flg Gr. 5 Zinc
18	124238X	Cap Spring Seat
21	171852	Bolt Shoulder 5/16-18 unc
22	STD541431	Nut Hex Lock W/Ins 5/16-18

22 STD541431 Nut Hex Lock W/Ins 5/16-18 24 19171912 Washer 17/32 x 1-3/16 x 12 Ga.

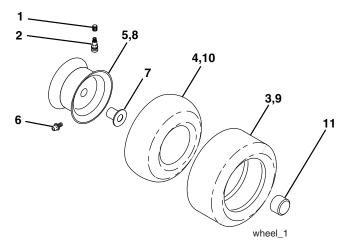
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 944.605880



NO.	NO.	DESCRIPTION	NO.
1	157032	Decal Fend STLT Oper	14
3	186280	Decal Hood RH	15
4	186281	Decal Hood LH	16
5	164065	Decal Streering Wheel	17
6	191777	Decal HP Engine	20
7	191551	Decal Dash Pnl	
9	186282	Decal Craftsman	
10	157140	Decal Fender Danger Eng/Fr	
11	186283	Decal Hood Side Panel	
12	172331	Decal Deck	
13	170563	Decal Deck Warn. Keep Hand	
		Away	

WHEELS & TIRES



DES	CRI	PI	IO	N
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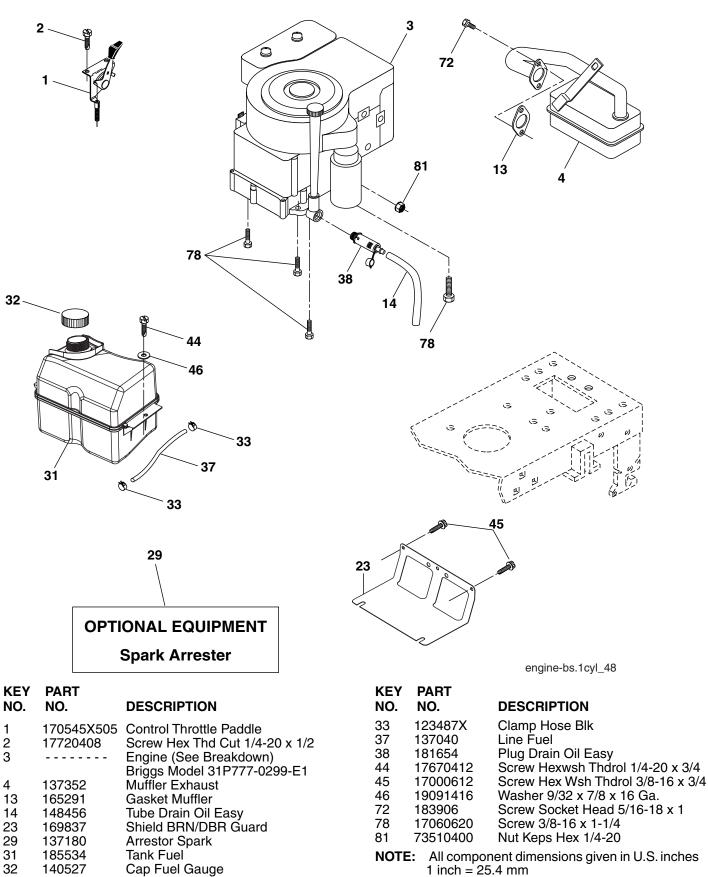
4	160396	Decal V-Belt Schematic
5	190140	Decal Replacement Parts
6	146046	Decal V-Belt Drive Sch
7	179128	Decal Deck "B" "42"
20	149517	Decal Bat Dan/Psn
-	184310X428	Pad Footrest LH STLT
-	184311X428	Pad Footrest RH STLT
-	138311	Decal Handle Lft Height Adjust
-	166960	Decal By-Pass
-	191480	Manual Owner's (English)
-	191481	Manual Owner's (French)

KEY NO.	PART 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	106732X624	Rim Asm 6" front Service			
6	278H	Fitting Grease (Front Wheel Only)			
7	9040H	Bearing Flange (Front Wheel Only)			
8	106108X624	Rim Asm 8" rear Service			
9	122082X	Tire R Ts 20 x 10-8 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 LLS inches					

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

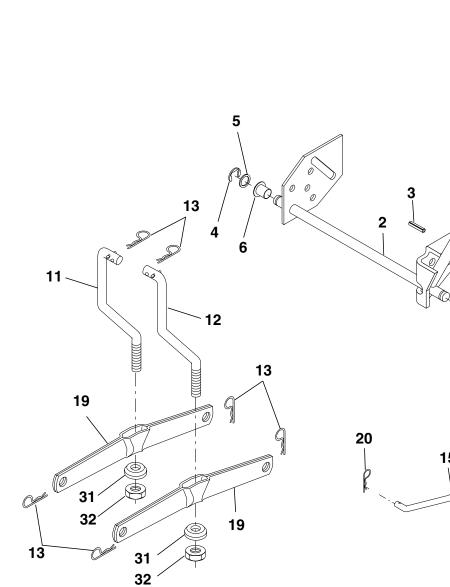
TRACTOR - - MODEL NUMBER 944.605880

ENGINE

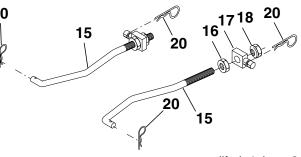


TRACTOR - - MODEL NUMBER 944.605880

MOWER LIFT



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lift-rh.1piece_3

KEY	PART	
NO.	NO.	DESCRIPTION
1	159460	Wire Asm Inner W/Plunger
2	159471	Shaft Asm Lift
3	105767X	Pin Groove
4	STD581062	E Ring #5133-62
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylon Blk .629 ID
7	125631X	Grip Handle Fluted
8	122365X	Button, Plunger
11	139865	Link Lift Lh Fixed Length
12	139866	Link Lift Rh Fixed Length
13	STD624008	Retainer Spring

DESCRIPTION

15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 unc
17	175689	Trunnion Blk Zinc
18	73800800	Nut Lock w/Wsh 1/2-13 unc
19	139868	Arm Suspension Rear
20	163552	Spring Retainer
31	169865	Bearing Pvt. Lift
32	73540600	Nut Lock 3/8-24

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

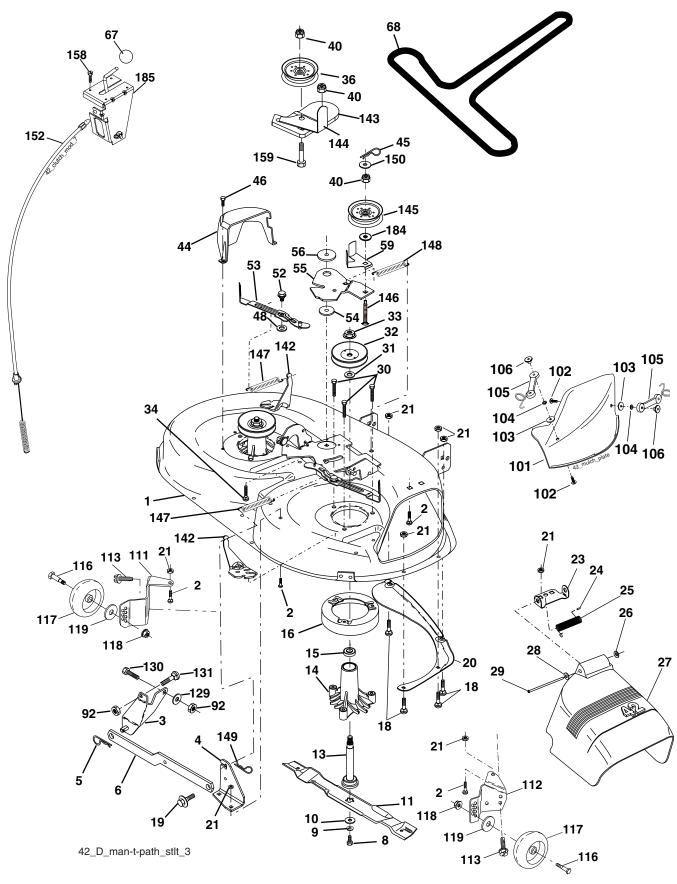
KEY

NO.

PART NO.

TRACTOR - - MODEL NUMBER 944.605880

MOWER DECK

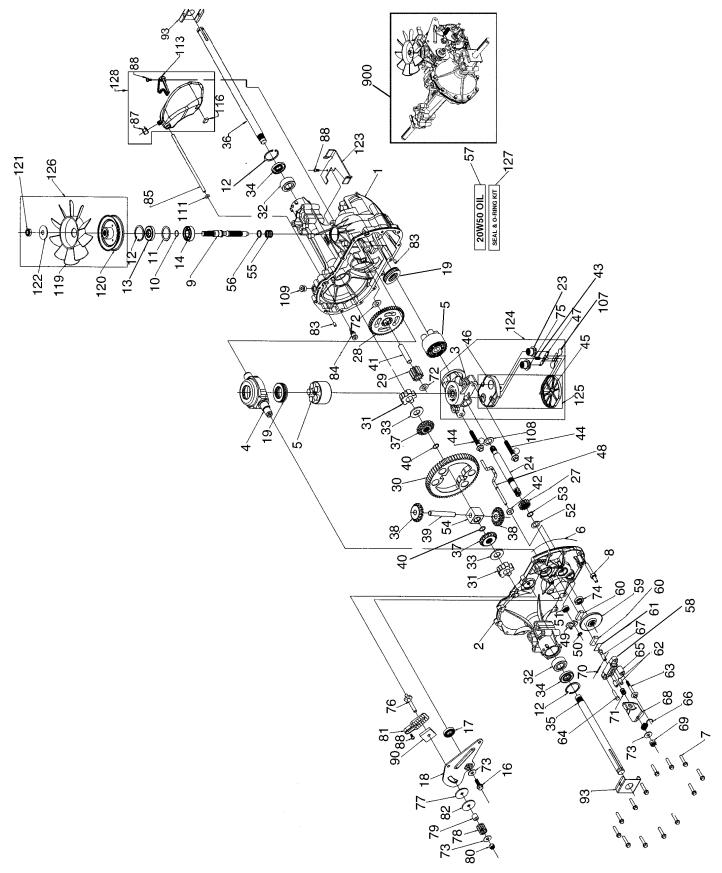


TRACTOR - - MODEL NUMBER 944.605880

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	56	165723	Spacer, Retainer
2	STD533107	Bolt	59	141043	Guard, TUV Idler
3	138017	Bracket Assembly, Sway Bar,	67	184939	Knob Custom
		Front	68	144959	V-Belt
4	165460	Bracket Sway Bar 38/42" Deck	92	STD541437	Nut
5	STD624008	Retainer Spring	101	136420	Mulcher Cover
6	178024	Bar Sway Deck	102	71081010	Screw
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	103	19061216	Washer #10
9	STD551137	Washer, Lock	104	STD551110	Washer, Lock
10	140296	Washer, Hardened	105	160793	Latch Assembly, Bagger
		(The following blades are available)	106	2029J	Nut, Weld
11	134149	Blade, 42" Mulching Std	111	179292	Bracket, Gauge, Wheel L.H.
		(For mulching mowers only)	112	179293	Bracket, Gauge, Wheel R.H.
	139775	Blade, 42" Mulching Premium	113	17000510	Screw 3/8-16 x .625
		(For better wear when mulching)	116	4898H	Bolt, Shoulder
	138971	Blade, 42" Hi-Lift	117	165746	Wheel, Gauge
		(For bagging or discharging)	118	73930600	Nut, Centerlock 3/8-16
13	137645	Shaft Assembly, Mandrel,	119	STD551037	Washer 3/8 x 7/8 x 14 Ga.
		Vented	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
14	128774	Housing, Mandrel, Vented	130	STD523710	Bolt, Fin Hex 3/8-16 unc x 1 Gr. 5
15	110485X	Bearing, Ball, Mandrel	131	STD533710	Bolt, Rdhd Sqnk 3/8-16 unc x 1
16	174493	Stripper, Vented Mower Deck	142	165890	Arm Spring Brake Mower
18	72140505	Bolt, Carriage 5/16-18 x 5/8	143	157109	Bracket Arm Idler 42"
19	132827	Bolt, Shoulder	144	158634	Keeper Belt 42" Clutch Cable
20	159770	Baffle, Vortex	145	165888	Pulley Idler Flat
21	STD541431	Nut Crownlock 5/16-18 unc	146	171977	Bolt Ćarriage Idler
23	177563	Bracket, Deflector	147	131335	Spring Extension
24	105304X	Cap, Sleeve	148	169022	Spring Return Idler
25	123713X	Spring, Torsion, Deflector	149	165898	Retainer Spring Yellow Zinc
26	110452X	Nut, Push	150	19091210	Washer 9/32 x 3/4 x 10 Ga.
27	130968X428	Shield, Deflector	152	169676	Cable Clutch 42 In
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	158	17720408	Screw Hex Thd Cut 1/4-20 x 5/8
29	131491	Rod, Hinge	159	72140614	Bolt Rdhd Sqn 3/8-16 unc x 1-3/4
30	173984	Screw Thdrol Washer Head	184	19131410	Washer 13/32 x 7/8 x 10 Ga.
31	187690	Washer, Spacer	185	188234	Head Asm Cable Clutch
32	153535	Pulley, Mandrel		130794	Mandrel Assembly (Includes Hous-
33	178342	Nut, Toplock, Flanged			ing, Shaft and Shaft Hardware Only
34	STD533717	Bolt			- Pulley Not Included)
36	131494	Pulley, Idler, Flat		169583	Replacement Mower Complete
40	73900600	Nut 3/8-16 unc			(Std. Deck-Order separately
44	140088	Guard, Mandrel, L.H.			mulcher cover and guage wheel
45	STD624003	Retainer			components Key Nos. 101 - 106
46	137729	Screw, Thd. Roll 1/4-20 x 5/8			and 116 - 119.)
48	133944	Washer, Hardened			
52	139888	Bolt, Shoulder 5/16-18 unc			
53	184907	Arm Assembly, Pad, Brake	NOTE	E: All compon	ent dimensions given in U.S. inches
54	178515	Washer, Hardened		1 inch = 25	
55	155046	Arm, Idler			

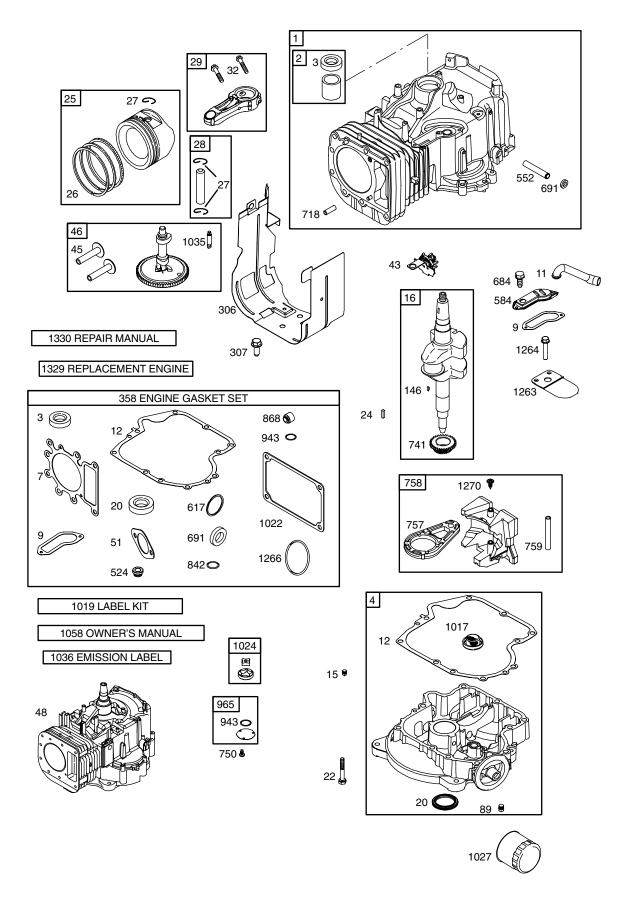
TRACTOR - - MODEL NUMBER 944.605880 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510



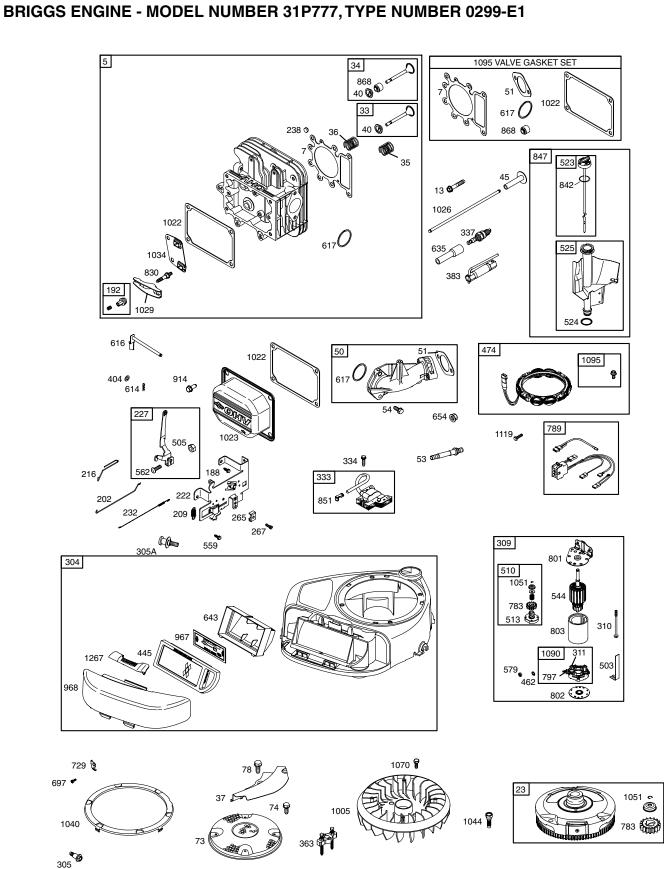
TRACTOR - - MODEL NUMBER 944.605880 HYDRO GEAR TRANSAXLE - MODEL NUMBER 314-0510

1 170251 Main Housing, Assembly 59 170408 Force, Brake Puck 3 170353 Center Section, Assembly 61 142883 Puck Pitate 4 170354 Swasphale, Trunion Machined 62 142887 Puck Pitate 5 170355 Sealant 10.5 Oz Patch Special Flange Puck Pitate Puck Pitate 7 170356 Hex Flange Screw 14-20 X 1.25 64 142882 Bott, 14-20 X 1.WiPatch 8 170357 Stud, 6/16-24 Hex Double End 65 170413 Sqn.14 Bott 5/16-24-18ibed 10 170358 Shaft, Input 66 170414 Arm, Brake 11 170360 Spacer 68 170414 Arm, Brake 12 198970 Ring - Retaining 70 170415 Soltted Hex Nut 5/16-24 14 169969 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Arnt Drag 14 169969 Ball Brake Puck 170421 Compression Spring Brake Arnt Drag 120m <td< th=""><th>KEY NO.</th><th>PART NO.</th><th>DESCRIPTION</th><th>KEY NO.</th><th>PART NO.</th><th>DESCRIPTION</th></td<>	KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
2 170352 Side Housing, Assembly 60 142883 Brake Puck 4 170354 Swashplate, Trunion Machined 62 142887 Brake Actuating Pin 6 170355 Sealant 10.5 Oz 70410 Hiftes 1/4-20x2 W/ Patch,SpecialFlange 7 170356 Hex Flange Screw 1/4-20 X 1.25 64 142882 Point, IrAc20 X 1 W/Patch 8 170357 Stud, 5/16-24 Hex Double End 65 170413 Spring, Brake Arm Bias 10 170358 Shaft, Input 66 170413 Sq. Hd. Bit/5/16-24-Ribbed 11 170360 Spacer 68 170415 Slotted Hex Nut 5/16-24 12 160870 Ring - Retaining 69 170415 Slotted Hex Nut 5/16-24 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170418 Washer, Ht. 5.1D. X1 O.D. X.032 16 170362 Hex Flange Head Screw 5/16- 73 142884 Flat-Washer 11/32 LD. X78 O.D. 17 170363 Lip Seal 18 X3 2X 7 75 170410 Seale25 X 10.0 X.0	1	170351	Main Housing, Assembly	59	170408	Rotor, Brake
3 170353 Center Section, Assembly 61 142882 Puck Plate 5 169898 Block - Assembly 63 170410 Hittes 11/4-20x2 W/ 7 170356 Sealan 10.5 Oz Patch, SpecialFlange Bott, 14-20x1 W/Patch 9 170357 Stud, 5/16-24 Hex Double End 66 170411 Spring, Brake Arm Bias 10 170358 Shaft, Input 66 170411 Spring, Brake Arm Bias 11 170360 Spacer 68 170414 Arm, Brake 12 169870 Ring, - Retaining 69 170416 Cotter Pin 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170418 Washer, Ht. 5 I.D. X 1 0.D. X 032 17 170362 Lips Falog Head Screw 5/16- 73 170421 Stud, 6/16-24 Friction Pack 17 170363 Lips Sea118 X 32 X 7 75 170420 Check Plug Assembly, Washer 78 170421 Stud, 6/16-24 Friction Pack 170364 Arm, Control 77 170422 Stud, Nu S/1						
4 170354 Swashplate, Trunion Machined 62 142887 Brake Actuating Pin 6 170355 Sealant 10.5 Oz Patch, Special/Flange Patch, Special/Flange 7 170356 Hex Flange Screw 1/4-20 X 1.25 64 142892 Bolt, 1/4-20 X 1/Platch 8 170357 Stud, 5/16-24 Hex Double End 65 170410 Spacer 10 170358 Shaft, Input 67 170413 Spring, Brake Arm Bias 10 170350 Spacer 68 170415 Solted 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 71 170417 Compression Spring Brake Anti-Drag 170361 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, Washer 74 170418 Oil Seal 625 X 1.0 X .25 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, Washer 79 142969 Spring, Pleical Comp 21,0 X .30 X 1.50 X .097.5 </td <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td>	3					
5 169898 Block - Assembly 63 170410 Httes, Harge Screw 1/4-20 X 1.25 7 170356 Hex Flange Screw 1/4-20 X 1.25 64 142892 Bolt, 14-20 X 1 W/Patch 9 170357 Stud, 5/16-24 Hex Double End 65 170411 Spracer 9 170358 Shaft, Input 66 170412 Spring, Brake Arm Bias 10 170350 Spacer 68 170413 Sq. Hd. Bolt 5/16-24-Ribbed 11 170360 Spacer 69 170414 Cotter Pin 3/32 X 3/4 12 169870 Ring - Retaining 71 170417 Compression Spring Brake Anti-Drag Tzmm 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag Tzmm 14 169869 Ball Srg 17mm Id X 32 X 3/4 71 170417 Compression Spring Brake Anti-Drag Tzmm 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170364 Arm, Control 76 170421 Sud, 516-						
6 170355 Sealant 10.5 Oz Patch.SpecialFlange Patch.SpecialFlange 8 170357 Stud, 5/16-24 Hex Double End 65 170411 Spacer 9 170358 Shaft, Input 66 170411 Spring, Brake Arm Bias 10 170359 Ring - Retaining 67 170413 Sq. Heb Olt 5/16-24-Ribbed 11 170360 Spacer 68 170414 Arm, Brake 12 169870 Ring - Retaining 69 170415 Sotted Hex Nut 5/16-24 13 170361 Seala Lip 67 X 1.58 X 276 70 170417 Compression Spring Brake Anti-Drag Washer, Ht. 5 Lio X 10.0 X .05 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag Washer, Ht. 5 Lio X 10.0 X .05 17 170362 Hex Flange Mead Screw 5/16- 73 142884 Flat - Washer 11/32 Lio X 7/8 0.D 17 170363 Lip Seal 18 X 32 X 7 75 170422 Stud, 516-24 Floid Asembly, Washer 78 18 170364 Arm, Control 77	5					
7 170356 Hex Flange Screw 1/4-20 X 1.25 64 142892 Bolt, 1/4-20 X 1 W/Patch 9 170358 Shaft, Input 66 170411 Spacer 9 170358 Ring, Retaining 66 170414 Sq. Hd. Bolt 5/16-24-Ribbed 11 170360 Spacer 68 170414 Arm, Brake Cotter Pin 3/32 X 3/4 12 169869 Ball Brg 17mm Id X 40mm Od X 71 170416 Cotter Pin 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Conter Pin 3/32 X 3/4 14 170361 Seal, Lip, 67 X 1.58 X .276 74 170417 Conter Pin 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Conter Pin 3/32 X 3/4 15 170362 Hex Flange Head Screw 5/16- 73 142864 Filat - Washer 11/32 LD X 7/8 O.D 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 0.27, Washer 18 170365 Check Plug Assembly, Washer 78 142280 Spacer 14 170365 Shaft, Motor 7				00	170410	
8 170357 Stud, 5/16-24 Hex Double End 65 170411 Spring, Brake Arm Bias 10 170358 Ring - Retaining 67 170413 Sq. Hd. Bolt 5/16-24-Ribbed 11 170360 Spacer 68 170414 Arm, Brake 12 169870 Ring - Retaining 69 170415 Slotted Hex Nut 5/16-24 13 170361 Seal, Lp. 67 X 1.58 X.276 70 170416 Compression Spring Brake Anti-Drag 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag 12mm 12mm 72 170418 Washer, Ht.5 LD. X. 10.D. X.032 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170419 Oil Seal.625 X 1.0 X.25 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170365 Check Plug Assembly, Washer 78 142269 Spring, Helical Comp 21 170366 Check Plug Assembly, Washer 78 142269 Spring, Helical Comp	7			64	1/2802	
9 170358 Shaft, Input 66 170412 Spring, Brake Arm Bias 11 170360 Spacer 68 170414 Arm, Brake 12 169870 Ring - Retaining 69 170415 Solted Hex Nut 5/16-24 13 170361 Seal, Lip, 67 X 1.58 X. 276 70 170416 Compression Spring Brake Arnti-Drag 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170416 Compression Spring Brake Arnti-Drag 16 170362 Hex Flange Head Screw 5/16- 73 142884 Flat Washer, Ht. 5 I.D. X 1 O.D. X. 032 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 0.27, Washer 18 170364 Arm, Control 76 170422 Puck, 30 X 1.50 X. 0975 21 170365 Shaft, Motor 79 142980 Spacer 21 170365 Shaft, Motor 79 142980 Spacer 21 170365 Shaft, Motor 83 161168 Finis, Sicadard Heaclless						
10 170359 Fing - Fetaining 67 170413 Sc, Hö. Bolt S/16-24-Ribbed 12 169870 Ring - Retaining 69 170415 Stotted Hex Nut 5/16-24 13 170361 Seal, Lip, 67 X, 15.8 X, 276 70 170416 Cotter Pin 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag 12mm 12mm 72 170418 Cotter Pin 3/32 X 3/4 Cotter Pin 3/32 X 3/4 16 170362 Hex Flarge Head Screw 5/16- 73 142884 Flat-Washer 11/32 LD, X 7/8 O.D 71 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170364 Arm, Control 76 170421 Stud, 5/16-24 Friction Pack 21 170365 Check Plug Assembly, Washer 78 142969 Spacer 24 170365 Gear - Prinon, 13t 80 150778 Hex Lock Nut 5/16-24Unjf(Nylon Insert) 24 170369 Gear, 101 Jackshaft 81 170423 Wedge, Friction Pack 23 170369 Gear, 101 Jackshaft <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
11 170360 Spacer 68 170414 Arm, Brake 12 169807 Ring - Retaining 69 170416 Cotter Pin 3/32 X 3/4 14 169869 Bail Brg 17mm Id X 40mm Od X 71 170416 Cotter Pin 3/32 X 3/4 14 169869 Bail Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag 12mm 16 170362 Hex Flange Head Screw 5/16- 73 142884 Flat- Washer, Ht. 5 I.D. X 10 D. X. 032 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170364 Arm, Control 76 170422 Puck, 330 X 1.50 X. 0975 19 150771 Bearing, 30x52x13 Thrust 77 170422 Spring, Helical Comp 21 170366 Shaft, Motor 79 142980 Spacer 21 170366 Shaft, Motor 79 142980 Spacer 22 170366 Gear, 101 Jackshaft 81 170423 Wedge, Friction Pack 21 170369 Geexe/Bearing (Cutboard) 83 16116 Pin, Standard						
12 168870 Fing - Retaining 69 170415 Solted Hex Nut 5/16-24 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170416 Cotter PIn 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170418 Washer, H1. 5.1.D. X 1 O.D. X. 032 16 170362 Hex Flange Head Screw 5/16- 73 142844 Flat - Washer 11/32.1.D. X 7/8 O.D 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170365 Check Plug Assembly, Washer 78 142969 Spring, Helical Comp 24 170366 Shaft, Motor 79 142969 Spring, Helical Comp 24 170366 Gear, 10t Jackshaft 81 170423 Wedge, Friction Pack 29 170369 Gear, 10t Jackshaft 81 170423 Wedge, Friction Pack 31 170370 Glear at 10 4x 1-1/2 Od X.13 Thk 81 170426 Hex Lock Nut 5/16-24 Unjf(Nylon Insert) 32 170389 Sleeve Bearing 75 X 1-575 X.625 84						
13 170361 Seal, Lip, 67 X 1,58 X.276 70 170416 Cotter Pin 3/32 X 3/4 14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compresion Spring Brake Anti-Drag Washer, Ht. 5 I.D. X 10 D. X 032 16 170362 Hex Flange Head Screw 5/16- 24X0.75 73 142884 Flat - Washer 11/32 I.D. X 7/8 O.D. 24X0.75 74 170419 Oil Seal. 625 X 1.0 X .25 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170364 Arm, Control 76 170421 Stud, 5/16-24 Friction Pack 23 170365 Check Plug Assembly, Washer 77 170429 Spring, Helical Comp 24 170366 Shaft, Motor 79 142969 Spring, Helical Comp 24 170367 Gear - Pinion, 13t 80 150778 Hex Lock Nut 5/16-24Unjf(Nylon Insert) 29 170369 Gear, 51 X.575 X.625 82 170426 Clip, Washer .316x1.50x.1046 21 170370 Sheeve Bearing (Outboard) 83 161188 Pin, Standard Headless 31 170371 Sheeve Bearing (Outboard) 83<						
14 169869 Ball Brg 17mm Id X 40mm Od X 71 170417 Compression Spring Brake Anti-Drag 16 170362 Hex Flange Head Screw 5/16- 24X0.75 74 170418 Washer, Ht. 5. I.D. X. 30. 20. 30. 17 170363 Lip Seal 18 X 32 X 7 75 170420 Check Plug Assembly, 027, Washer 18 170364 Arm, Control 76 170420 Check Plug Assembly, 027, Washer 19 150771 Bearing, 30x52x13 Thrust 77 170421 Stud, 5/16-24 Friction Pack 21 170365 Check Plug Assembly, Washer 78 142960 Spacer 21 170366 Gear - Pinion, 13t 80 150778 Hex Lock Nut 5/16-24Unjf(Nylon Insert) 29 170369 Gear, 10t Jackshaft 81 170423 Wedge, Friction Pack 30 170370 60t Bull Gear 82 170424 Hox See S/22 Tube 31 170370 Sleeve Bearing .75 X 1.575 X.625 84 170426 Hose, Expansion Tank 31 142991 Washer, 3/4 I d X 1-1/2 Od X .13 Thk 85						
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42 170395 Magnet, Ring 111 170435 O-Ring .07 X .301 l.D. 43 170396 Spring, Bypass 113 170437 Bracket, Support Expansion Tank 44 150797 Hydro Mtg Screw 3/8-24 X 2.5 Long 116 170438 Silicon Sponge 45 170397 Filter 119 170439 Fan, 7 In. 46 170398 Base, Filter 120 170440 Pulley 47 170399 Actuator, Bypass 121 170441 Hex Lock Nut 1/2-20 (Nylon Insert) 48 170400 Rod, Bypass Actuator 122 170442 Washer, Belleville 49 170401 Arm, Bypass 123 170443 Belt Keeper 50 170402 Retaining Ring .250 External 124 170444 Center Section-Filter-Bypass Assembly 51 170403 Seal, Lip .741 X .250 X .250 Tc 50 170445 Filter Assembly 52 170404 Flat Washer, 5/8 Id X 1.0 Od X .05 125 170445 Fan - Pulley Service Assembly 53 170405 Retaining Ring 127 170446 Fan - Pul				109	170434	
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55 142977 Spring - Helical Compression 900 166768 Transaxle Complete						
				900	166768	Iransaxle Complete
	56	142978	Washer			
57 150798 20w-50 Oil NOTE: All component dimensions given in U.S. inches				NOT	E: All compon	ent dimensions given in U.S. inches
58 170407 Brake Yoke	58	1/0407	Brake Yoke			

TRACTOR - - MODEL NUMBER 944.605880 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0299-E1

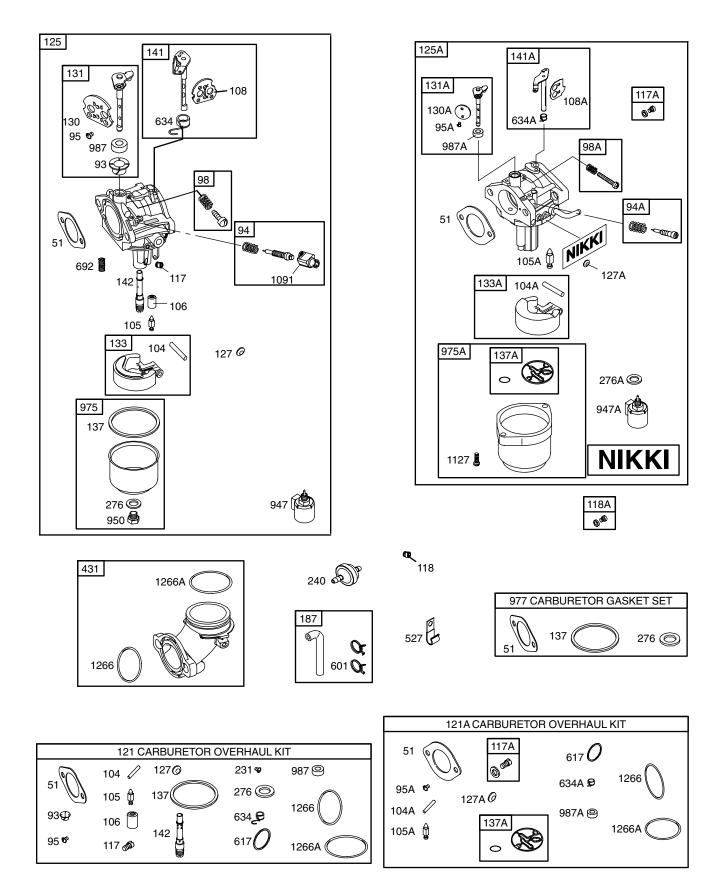


REPAIR PARTS TRACTOR - - MODEL NUMBER 944.605880





TRACTOR - - MODEL NUMBER 944.605880 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0299-E1



TRACTOR - - MODEL NUMBER 944.605880 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0299-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	697174	Cylinder Assembly	106	690577	Ø Seat-Inlet
2	399265	Kit-Bushing/Seal (Magneto Side)	108	690464	Valve-Choke (Manual Choke)
3	391086	Seal-Oil (Magneto Side)	108A	695419	Valve-Choke (Nikki)
4	697188	Sump-Engine	117	694352	Ø Jet-Main (Standard)
5	698147	Head-Cylinder	117A	699457	Ø Jet-Main (Standard) (Nikki)
7	699168	 + Gasket-Cylinder Head 	118	697228	Jet-Main (High Altitude)
9	697109	Gasket-Breather	118A	699458	Jet-Main (High Altitude) (Nikki)
11	697113	Tube-Breather	121	697241	Kit-Carburetor Overhaul
12	697110	 Gasket-Crankcase 	121A	699521	Kit-Carburetor Overhaul (Nikki)
13	690360	Screw (Cylinder Head)	125	698445	Carburetor
15	690946	Plug-Oil Ďrain	125A		Carburetor (For Complete Carburetor,
16	697127	Crankshaft			Service with 698445)
20	690947	 Seal-Oil (PTO Side) 	127	695005	Plug-Welch
22	692125	Screw (Crankcase Cover/Sump)	127A	690727	Ø Plug-Welch (Nikki)
23	693557	Flywheel	130	691750	Valve-Throttle
24	222698	Key-Flywheel	130A	699500	Valve-Throttle (Nikki)
25	699052	Piston Assembly (Standard)	131	494379	Kit-Throttle Shaft
	699054	Piston Assembly (.020" Oversize)	131A	699501	Kit-Throttle Shaft (Nikki)
26	699051	Ring Set (Standard)	133	494381	Float-Carburetor
	697559	Ring Set (.020" Ovérsize)	133A	694914	Float-Carburetor (Nikki)
27	698469	Lock-Piston Pin	135	698780	Tube-Fuel Transfer
28	697099	Pin-Piston	137	281165	؇ Gasket-Float Bowl
29	697126	Rod-Connecting (Standard)	137A	698781	Ø Gasket-Float Bowl (Nikki)
	697263	Rod-Connecting (.020" Undersize)	141	495097	Kit-Choke Shaft (Manual Choke)
32	692852	Screw (Connecting Rod)	141A	698778	Kit-Choke Shaft (Nikki)
33	695760	Valve-Exhaust	142	697140	Ø Nozzle-Carburetor
34	695761	Valve-Intake	146	691639	Key-Timing
35	691279	Spring-Valve (Intake)	187	699331	Line-Fuel
36	691279	Spring-Valve (Exhaust)	188	691693	Screw (Control Bracket)
37	697352	Guard-Flywheel	192	691986	Adjuster-Rocker Arm
40	690964	Retainer-Valve	202	691841	Link-Mechanical Governor
43	691968	Slinger-Governor/Oil	209	692208	Spring-Governor
45	690564	Tappet-Valve	216	691840	Link-Choke
46	698492	Camshaft	222	694042	Bracket-Control
48	697762	Short Block	227	691374	Lever-Governor Control
50	690193	Manifold-Intake	232	691842	Spring-Governor
51	692137 •	؇+ Gasket-Intake	238	691843	Cap-Valve
53	690227	Stud (Carburetor)	240	394358	Filter-Fuel
54	691148	Screw (Intake Manifold)	265	691024	Clamp-Casing
73	697133	Screen-Rotating	267	695134	Screw (Casing Clamp)
74	697897	Screw (Rotating Screen)	276	692255	؇ Washer-Sealing
78	691003	Screw (Flywheel Guard)	276A	695410	Washer-Sealing
89	690283	Plug-Oil	304	699828	Housing-Blower
93	690602	Ø Bushing-Throttle Shaft	305	697102	Screw (Blower Housing)
94	498030	Kit-Idle Mixture	305A	697103	Screw (Blower Housing)
94A	695425	Kit-Idle Mixture (Nikki)	306	697107	Shield-Cylinder
95	691636	Screw (Throttle Valve)	307	691003	Screw (Cylinder Shield)
95A	690718	Ø Screw (Throttle Valve (Nikki)	309	693551	Motor-Starter
98	495800	Kit-Idle Speed			
98A	695408	Kit-Idle Speed (Nikki)	•		in Engine Gasket Set, Key. No. 358
104	690525	Ø Pin-Float Hinge	Ø		in Carburetor Overhaul Kit, Key. No. 121
104A	694918	Ø Pin-Float Hinge (Nikki)	‡		in Carburetor Gasket Set, Key. No. 977
105	231855	Ø Valve-Float Needle	+	Included	in Valve Gasket Set, Key. No. 1095
105A	696136	Ø Valve-Float Needle (Nikki)			
			NOTE	All comp	onent dimensions given in U.S. inches 1 inch

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

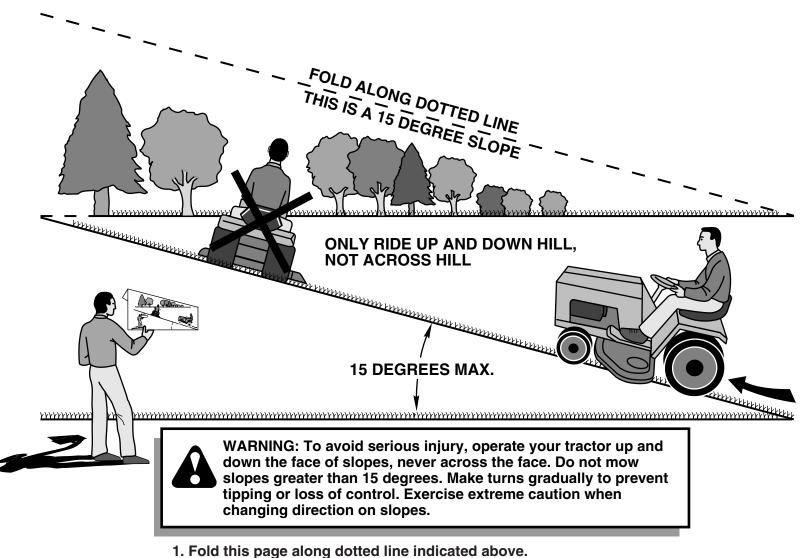
TRACTOR - - MODEL NUMBER 944.605880 BRIGGS ENGINE - MODEL NUMBER 31P777, TYPE NUMBER 0299-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO. DESCRIPTION
310	690323	Bolt (Starter Motor)	851	692424 Terminal-Spark Plug
311	497608	Brush Set	868	690968 •+ Seal-Valve
333	495859	Armature-Magneto	914	691108 Screw (Rocker Cover)
334	691061	Screw (Magneto Armature)	943	690589 • Seal-O Ring (Oil Pump Cover)
337	691043	Plug-Spark	947	694393 Solenoid-Fuel
358	697191	Gasket Set-Engine	947A	695423 Solenoid-Fuel (Nikki)
363	19203	Flywheel Puller	950	691657 Screw (Float Bowl)
383	89838	Wrench-Spark Plug	965	499613 Cover-Òil Pump
404	691691	Washer (Governor Crank)	967	697015 Filter-Pre Cleaner
431	697122	Elbow-Intake	968	699848 Cover-Air Cleaner
445	698083	Filter-Air Cleaner Cartridge	975	495933 Bowl-Float
462	691261	Washer (Starter Cable)	975A	699502 Bowl-Float (Nikki)
474	696459	Alternator	977	690192 Gasket Set-Carburetor
503	691532	Strap-Starter	987	691326 Ø Seal-Throttle Shaft
505	691251	Nut (Governor Control Lever)	987A	698777 Ø Seal-Throttle Shaft (Nikki)
510	693699	Drive-Starter	1005	699043 Fan-Flywheel
513	692024	Clutch-Drive	1017	690770 Screen-Oil Pump
523	697086	Dipstick	1019	698814 Kit-Label
524	691032	Seal-Dipstick Tube	1022	272475 •+ Gasket-Rocker Cover
525	697184	Tube-Dipstick	1023	692492 Cover-Rocker Arm
527	698467	Clamp-Tube	1024	499054 Pump-Oil 692003 Rod-Push (Intake)
544	692034	Starter-Armature	1026	692003 Rod-Push (Intake) 692011 Rod-Push (Exhaust)
552 559	697144 693675	Bushing-Governor Crank	1027	492932 Filter-Oil
559 562	691119	Screw (Remote Choke Stop) Bolt (Governor Control Lever)	1027 1029	691751 Arm-Rocker
579	691029	Nut (Starter Cable)	1029	690822 Guide-Push Rod
584	697112	Cover-Breather Passage	1034	693784 Shaft-Pump
601	95162	Clamp-Hose	1035	695700 Label-Emission
614	691620	Pin-Cotter	1040	699852 Plate-Trim
616	692012	Crank-Governor	1044	698139 Screw (Flywheel)
617	692138	Ø • Seal-O Ring (Intake Manifold)	1051	691265 Ring-Retaining
634	690801	Ø Spring/Seal Assembly (Manual Choke)	1058	275038 Owner's Manual
634A	698779	Ø Spring/Seal Assembly (Nikki)	1059	698516 Kit-Screw/Washer
635	691909	Boot-Spark Plug	1070	690372 Screw (Flywheel Fan)
643	698401	Retainer-Air Filter	1090	691293 Retainer-Brush
654	690958	Nut (Carburetor)	1091	691333 Cap-Limiter
684	697157	Screw (Breather Passage Cover)	1095	690190 Gasket Set-Valve
691	692407	Seal-Governor Shaft	1119	691183 Screw (Alternator)
692	690572	Spring-Detent	1127	695407 Screw-Float Bowl
697	690372	Screw (Drive Cap)	1263	697124 Reed-Breather
718	690959	Pin-Locating	1264	697104 Screw (Breather Reed)
729	691224	Clip-Wire	1266	691917 •Ø Seal-O Ring (Intake Elbow)
741	697128	Gear-Timing		697123 Ø Seal-O Ring (Intake Elbow)
750	691033	Screw (Oil Pump Cover)	1267	697424 Latch-Blower Housing
757	697607	Link-Counterweight	1270	697156 Plug-AVS Counterweight
758	697134	Counterweight	1329	31Q777-0036 Replacement Engine
759	697392	Pin-Counterweight	1330	272147 Repair Manual
783	693713	Gear-Pinion	•	Included in Engine Cooket Set Key No. 259
789 707	698329	Harness-Wiring	ē	Included in Engine Gasket Set, Key. No. 358
797	693167	Nut (Brush Retainer)	Ø +	Included in Carburetor Overhaul Kit, Key. No. 121
801 802	691283 691286	Cap-Drive	‡	Included in Carburetor Gasket Set, Key, No. 977
	691286 693757	Cap-End Housing-Starter	+	Included in Valve Gasket Set, Key. No. 1095
803 830	693757 691095	Stud (Rocker Arm)		All component dimensions given in U.S. inches 1 inch
842	691095	Stud (Rocker Arm) Seal-O Ring (Dipstick Tube)	= 25.4	
847	697611	Dipstick/Tube Assembly	- 20.4	
071	007011			

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



- 2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
- 3. Sight across the fold in the direction of hill slope you want to measure.
- 4. Compare the angle of the fold with the slope of the hill.

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