

# MODEL NO. 944.600701

Caution: Read and follow all Safety Rules and Instructions Before Operating This Equipment



# **CRAFTSMAN**®

20.5 HP ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

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

# **SAFETY RULES**

## Safe Operation Practices for Ride-On Mowers

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

#### I. GENERAL OPERATION

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

#### **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.

#### DONOT:

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

#### **III. CHILDREN**

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

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

#### **IV. SERVICE**

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

# SAFETY RULES Safe Operation Practices for Ride-On Mowers



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.



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

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



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



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

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# PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F) SYNTHETIC (below 0°F)
Your tractor was shipped from 10W-30 motor oil.	the factory with non-synthetic SAE
OIL CAPACITY:	3 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ19LM or J19LM
VALVE CLEARANCE:	INTAKE: .004"006" EXHAUST: .007"009"
GROUND SPEED (MPH):	FORWARD: 1st 1.2 2nd 1.5 3rd 2.4 4th 3.5 5th 4.8 6th 5.4 REVERSE: 1.5
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS.

**CONGRATULATIONS** on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest 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 "Customer Responsibilities" and "Storage" sections of this owner's manual.

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

A spark arrester for the muffler is available through your nearest authorized service centre/department (See RE-PAIR 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 <u>NOT</u> cover:

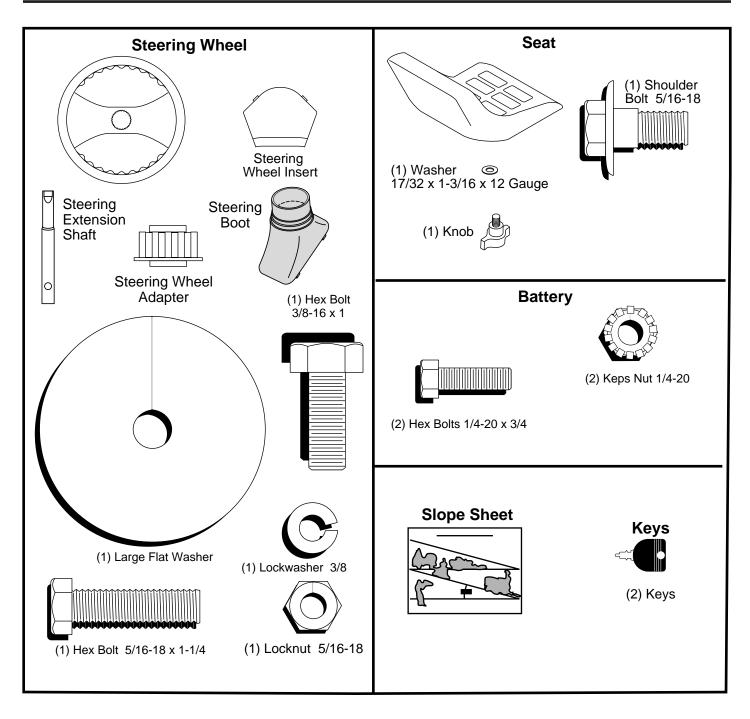
- 1. Pre-delivery set-up.
- 2. Tire replacement or repair caused by punctures from outside objects (such as nails, thorns, stumps, or glass).
- 3. Expendable items which become worn during normal use, such as blades, spark plug, air cleaners and belts.
- 4. Repairs necessary because of operator abuse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

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

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

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

# **UNASSEMBLED PARTS**



# ASSEMBLY

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

# TOOLS REQUIRED FOR ASSEMBLY

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

(1) 9/16" wrench

(2) 1/2" wrench

(2) 7/16" wrenches

Tire pressure gauge Utility knife

Pliers

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

# TO REMOVE TRACTOR FROM CARTON

### UNPACK CARTON

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

# BEFORE REMOVING TRACTOR FROM SKID

## ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.
- Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.

• Remove protective materials from tractor hood and grill. **IMPORTANT:** CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

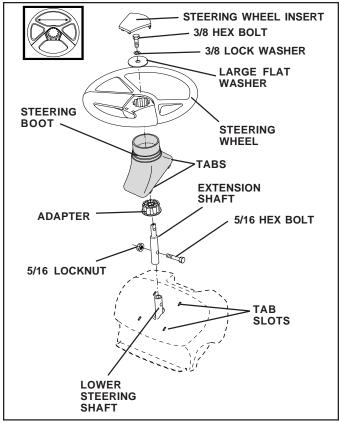


FIG. 1

# HOW TO SET UP YOUR TRACTOR

## **CONNECT BATTERY (See Fig. 2)**



CAUTION: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

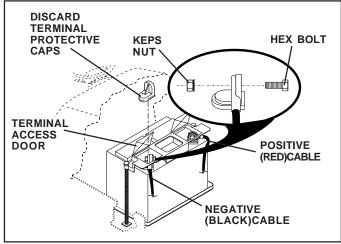
Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift hood to raised position.
- Open terminal access doors, remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely.
- Close terminal access doors.

# ASSEMBLY

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- Jumping (if required).
- Periodic charging.

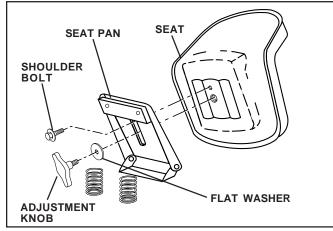




## **INSTALL SEAT (See Fig. 3)**

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 and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



**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, page 10 for location and function of controls)

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

#### TO DRIVE TRACTOR OFF SKID(See Operation section, page 10 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.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place gear shift 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.
- Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear.
- Slowly release clutch/brake pedal and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.
- Turn ignition key to "OFF" position.

Continue with the instructions that follow.

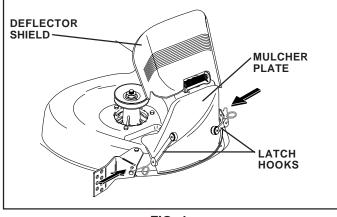
#### INSTALL MULCHER PLATE (If previously removed) (See Fig. 4)

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



CAUTION: Do not remove deflector shield from mower. Raise and hold shield when attaching mulcher plate and allow it to rest on plate while in operation.

# ASSEMBLY



#### FIG. 4

# TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

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

## CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" section of this manual.

## CHECK DECK LEVELNESS

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

# CHECK FOR PROPER POSITION OF ALL BELTS

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

### CHECK BRAKE SYSTEM

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

# ✓ CHECKLIST

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

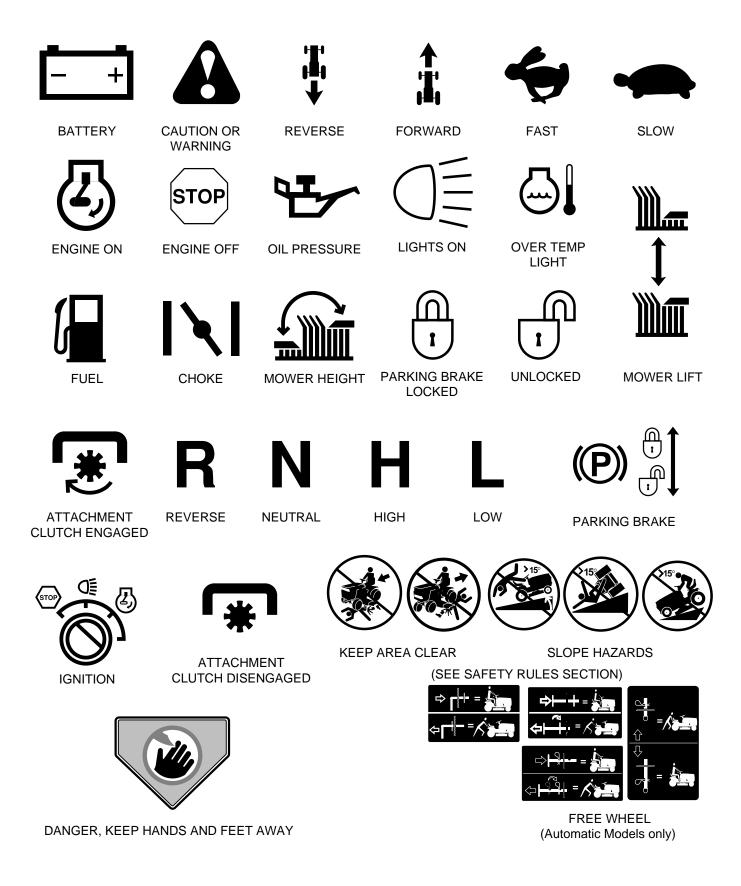
PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

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

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

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



# KNOW YOUR TRACTOR

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

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

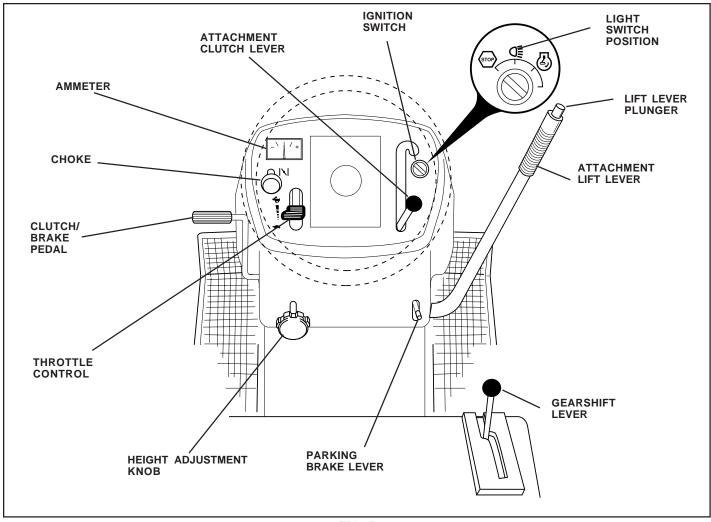


FIG. 5

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

**THROTTLE CONTROL**: Used for starting and controlling engine speed.

**CHOKE CONTROL:** Used for starting a cold engine.

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

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

LIGHT SWITCH: Turns the headlights on and off.

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

HEIGHT ADJUSTMENT KNOB: Used to adjust the mower cutting height

**ATTACHMENT CLUTCH LEVER**: Used to engage the mower blades, or other attachments mounted to your tractor. **LIFT LEVER PLUNGER**: Used to release attachment lift lever when changing its position.

ATTACHMENT LIFT LEVER: Used to raise and lower the mower deck or other attachments mounted to your tractor. **PARKING BRAKE LEVER**: Locks Clutch/Brake Pedal into the brake position.

**GEARSHIFT LEVER:** Selects the speed and direction of tractor.



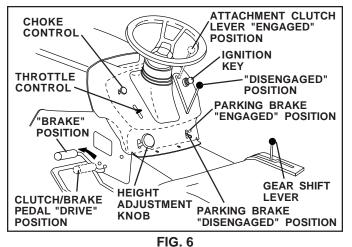
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

# HOW TO USE YOUR TRACTOR

## TO SET PARKING BRAKE (See Fig. 6)

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

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



### STOPPING (See Fig. 6)

MOWER BLADES -

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

GROUND DRIVE -

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

ENGINE -

• Move throttle control to slow position.

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

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

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

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



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

### TO USE THROTTLE CONTROL (See Fig. 6)

Always operate engine at full throttle.

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

### TO USE CHOKE CONTROL (See Fig. 6)

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

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

# TO MOVE FORWARD AND BACKWARD (See Fig. 6)

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

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

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

# TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

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

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

The cutting height range is approximately 1-1/2" to 4-1/2". 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. 6B)

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.

- 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.

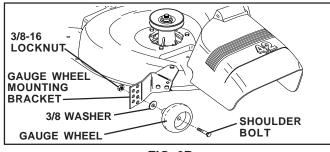


FIG. 6B

## TO OPERATE MOWER (See Fig. 7)

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

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

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

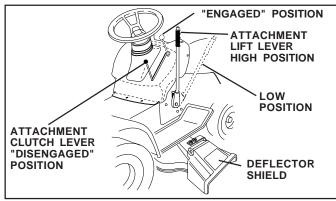


FIG. 7

## TO OPERATE ON HILLS



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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.

- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

### TO TRANSPORT

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

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

#### TOWING CARTS AND OTHER ATTACH-MENTS

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

# BEFORE STARTING THE ENGINE

## CHECK ENGINE OIL LEVEL (See Fig. 12)

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

### ADD GASOLINE

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

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

**WARNING**: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next

season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



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

### TO START ENGINE (See Fig. 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.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

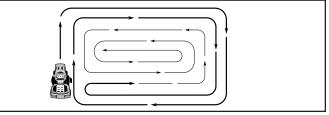
- When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control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

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

## **MOWING TIPS**

- Mower should be properly leveled for best mowing performance. See "TOLEVEL 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
- 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. 8).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

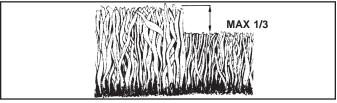




## **MULCHING MOWING TIPS**

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

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 9). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.



**FIG. 9** 

AS	MAINTENANCE SCHEDUL L IN DATES YOU COMPLETE GULAR SERVICE	.E	BEFORE	EACHUS EVERY 8	SE HOURS	SHOUR 25 HOUR 25 HOUR	SHOUF OHOUF	RS HOUS	EASON EFORE	SEF	<sup>AGE</sup> RVICE	E DA	TES
	Check Brake Operation	~	V										
	Check Tire Pressure	~	V										
Т	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	~				<b>V</b> 7		~					
A C	Sharpen/Replace Mower Blades			$\checkmark_4$									
Ιĭ	Lubrication Chart			V				V					
l o	Check Battery Level			<b>1</b> 6									
R	Clean Battery and Terminals			1				~					
	Check Transaxle Cooling			<b>/</b>									
	Adjust Blade Belt(s) Tension					<b>V</b> <sub>5</sub>							
	Adjust Motion Drive Belt(s) Tension					<b>V</b> 5							
	Check Engine Oil Level	~	V										
	Change Engine Oil			1,2,3				<b>/</b>					
ΙE	Clean Air Filter			<b>V</b> <sub>2</sub>									
N	Clean Air Screen			<b>V</b> <sub>2</sub>									
Ģ	Inspect Muffler/Spark Arrester				V								
I N	Replace Oil Filter (If equipped)					<b>1</b> ,2							
	Clean Engine Cooling Fins					<b>V</b> <sub>2</sub>							
<u>-</u> ۱	Replace Spark Plug					/	~						
	Replace Air Filter Paper Cartridge					<b>V</b> <sub>2</sub>							
	Replace Fuel Filter						1						

1 - Change more often when operating under a heavy load or in high ambient temperatures.

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

3 - If equipped with oil filter, change oil every 50 hours.

5 - If equipped with adjustable system.

6 - Not required if equipped with maintenance-free battery. 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum.

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

Do not overtighten.

# GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

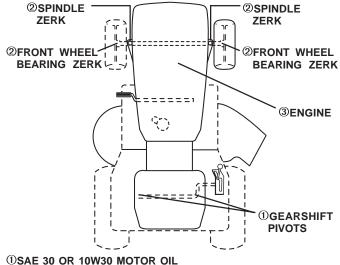
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

### **BEFORE EACH USE**

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

LUBRICATION CHART



**@GENERAL PURPOSE GREASE** 

**③REFER TO CUSTOMER RESPONSIBILITIES "ENGINE"** SECTION

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

# TRACTOR

Always observe safety rules when performing any maintenance.

### **BRAKE OPERATION**

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

### TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" section of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

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

## **OPERATOR PRESENCE SYSTEM**

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

- The engine should not start unless the clutch/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.

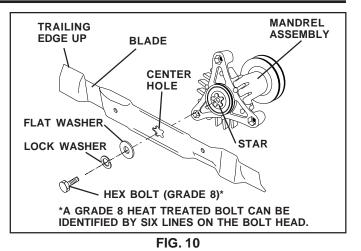
### BLADE REMOVAL (See Fig. 10)

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

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

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

IMPORTANT: BLADE BOLT IS GRADE 8 HEAT TREATED.



# TO SHARPEN BLADE (See Fig. 11)

**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.

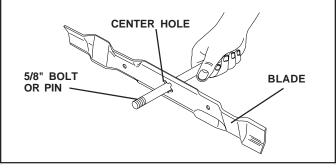


FIG. 11

### BATTERY

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

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

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

#### TO CLEAN BATTERY AND TERMINALS

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

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

### V-BELTS

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

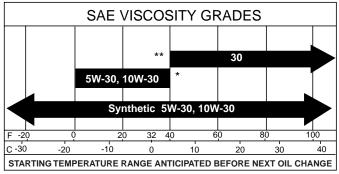
### TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

# ENGINE

## LUBRICATION

Only use high quality detergent oil rated with API service classification SF, SG, or SH. Select the oil's SAE viscosity grade according to your expected operating temperature. When operating in temperatures below  $0^{\circ}$  F (-18°C) synthetic oil must be used.



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

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



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

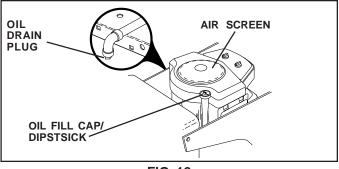
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

#### TO CHANGE ENGINE OIL (See Fig. 12)

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" 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.



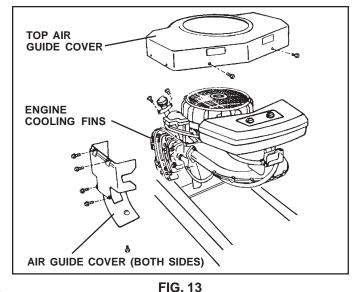
#### FIG. 12

## CLEAN AIR SCREEN (See Fig. 13)

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

## ENGINE COOLING FINS (See Fig. 13)

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



16

## AIR FILTER (See Fig. 14)

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

Service air cleaner more often under dusty conditions.

- Remove knob(s) and cover.
- TO SERVICE PRE-CLEANER
- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).
- TO SERVICE CARTRIDGE
- Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

**IMPORTANT:** PETROLEUM SOLVENTS, SUCH AS KEROSENE, ARE NOT TO BE USED TO CLEAN THE CARTRIDGE. THEY MAY CAUSE DETERIORATION OF THE CARTRIDGE. DO NOT OIL CARTRIDGE. DO NOT USE PRESSURIZED AIR TO CLEAN OR DRY CARTRIDGE.

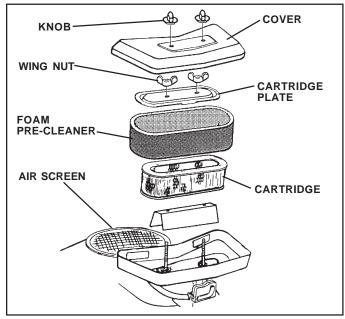


FIG. 14

### 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. 15)

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

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

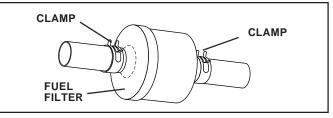


FIG. 15

# CLEANING

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

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

#### CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

# TRACTOR

## TO REMOVE MOWER (See Fig. 16)

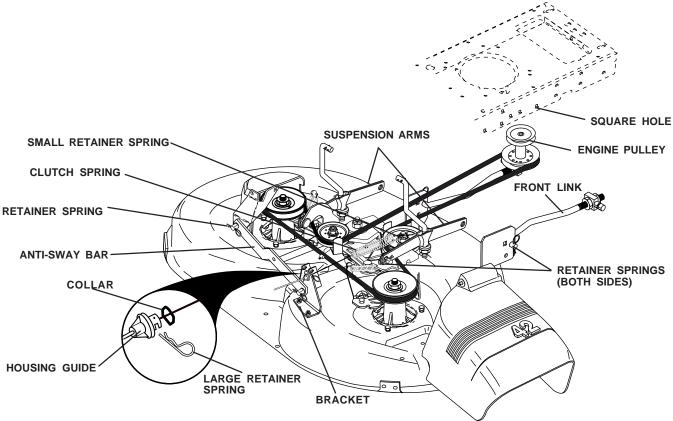
Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in "DISENGAGED" position.
  Move attachment lift lever forward to lower mower to its
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and lift clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

### TO INSTALL MOWER (See Fig. 16)

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



## TO LEVEL MOWER HOUSING

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

SIDE-TO-SIDE ADJUSTMENT (See Figs. 17 and 18)

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

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

Recheck measurements after adjusting.

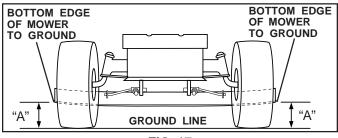


FIG. 17

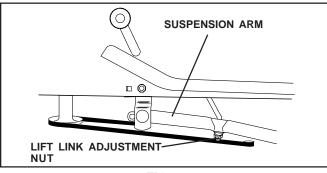


FIG. 18

FRONT-TO-BACK ADJUSTMENT (See Figs. 19 and 20) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

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

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

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower loosen nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear. tighten nuts "F" against trunnion on both front links.
- To raise front of mower, loosen nut "F" from trunnion on both front links. Tighten nut "E" on both front links an equal number of turns.
- When distance "D" is 1/8" to 1/2" lower at front than rear, • tighten nut "F" against trunnion on both front links.
- Recheck side-to-side adjustment.

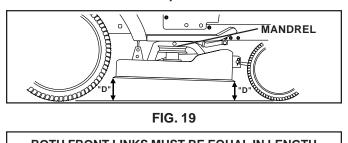
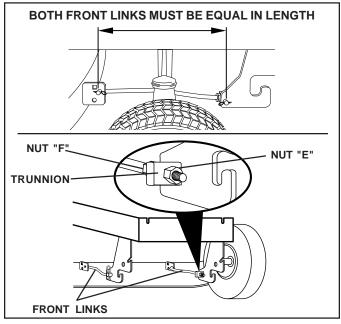


FIG. 19



**FIG. 20** 

# TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 21)

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.

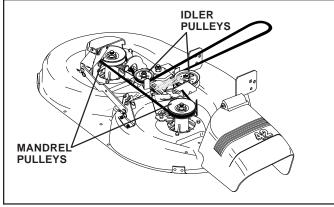


FIG. 21

## TO ADJUST BRAKE (See Fig. 22)

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

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

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

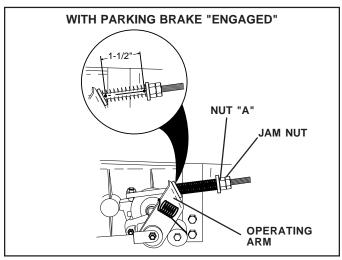


FIG. 22

# TO REPLACE MOTION DRIVE BELT (See Fig. 23)

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

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

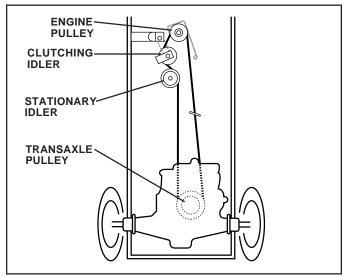


FIG. 23

### TRANSAXLE GEAR SHIFT LEVER NEUTRAL ADJUSTMENT (See Fig. 24)

- The transaxle should be in neutral when the gear shift lever is in neutral (N) (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:
- Make sure transaxle is in neutral (N).
- **NOTE:** When the tractor rear wheels move freely, the transaxle is in neutral.
- Loosen adjustment bolt in front of the right rear wheel.
- Position the gear shift lever in the neutral (N) position.
- Tighten adjustment bolt securely.
- **NOTE:** If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

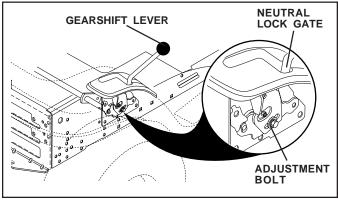


FIG. 24

## 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. 25)

- 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.

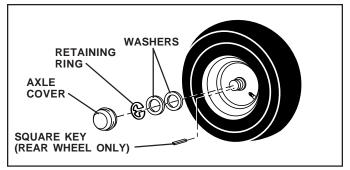


FIG. 25

# TO START ENGINE WITH A WEAK BATTERY (See Fig. 26)

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

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

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

TO ATTACH JUMPER CABLES

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

TO REMOVE CABLES, REVERSE ORDER

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

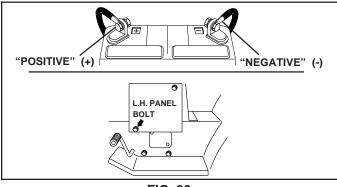


FIG. 26

### 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 15 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

# TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 27)

- 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.

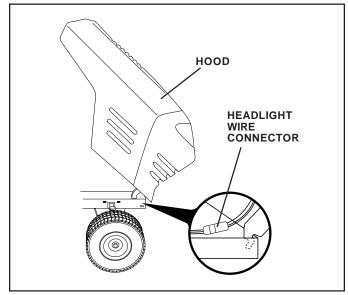


FIG. 27

## 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. 28)

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

- With engine not running, move throttle control lever to fast position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

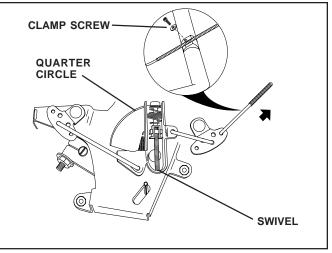


FIG. 28

## TO ADJUST CHOKE CONTROL (See Fig. 29)

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

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

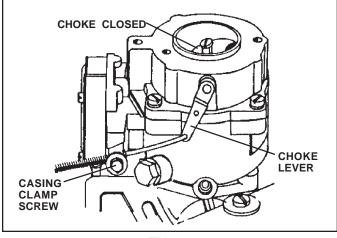


FIG. 29

# TO ADJUST CARBURETOR (See Figs. 30& 31)

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

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

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

#### PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw in (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1-1/4 to 1-1/2 turns.

FINAL SETTING -

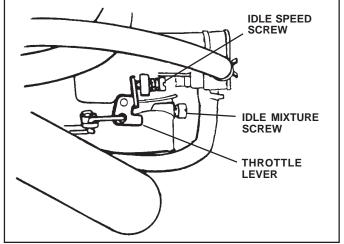
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw in (clockwise) until engine begins to die and then turn **out** (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM. Release throttle lever.

#### ACCELERATION TEST -

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

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

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





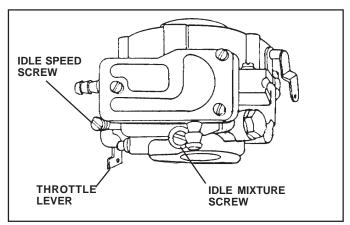


FIG. 31

# STORAGE

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



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

# TRACTOR

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

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

### BATTERY

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

# ENGINE

### FUEL SYSTEM

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

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

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

### **ENGINE OIL**

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

## CYLINDER(S)

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

# OTHER

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

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

# **TROUBLESHOOTING POINTS**

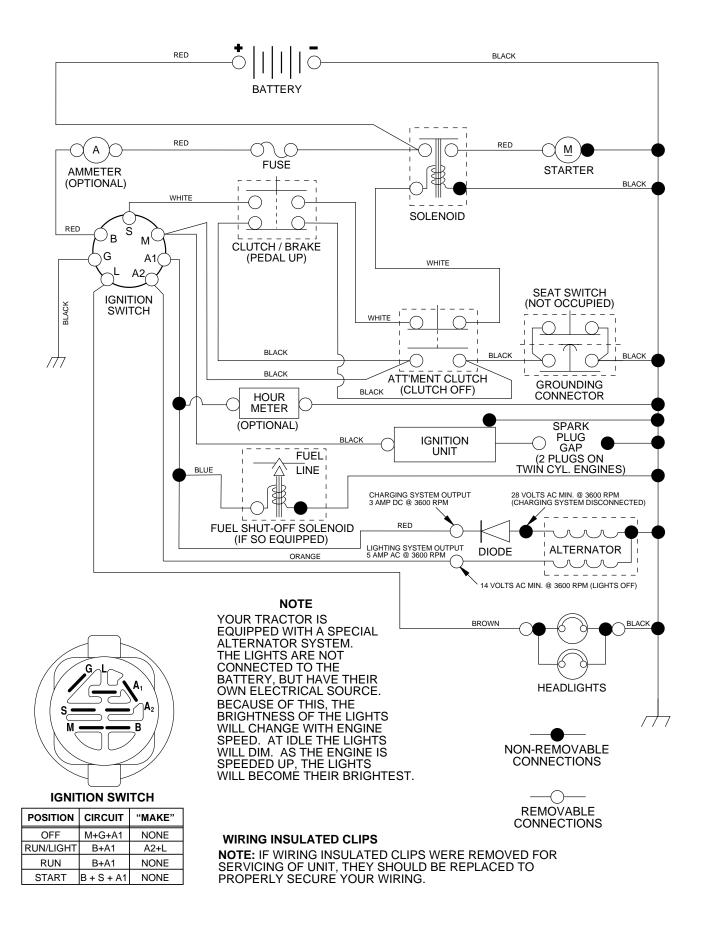
PROBLEM	CAUSE	CORRECTION		
Will not start	<ol> <li>Out of fuel.</li> <li>Engine not "CHOKED" properly.</li> <li>Engine flooded.</li> <li>Bad spark plug.</li> <li>Dirty air filter.</li> <li>Dirty fuel filter.</li> <li>Water in fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Fill fuel tank.</li> <li>See "TO START ENGINE" in Operation section.</li> <li>Wait several minutes before attempting to start.</li> <li>Replace spark plug.</li> <li>Clean/replace air filter.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> <li>Contact an authorized service center/department.</li> </ol>		
Hard to start	<ol> <li>Dirty air filter.</li> <li>Bad spark plug.</li> <li>Weak or dead battery.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> <li>Engine valves out of adjustment.</li> </ol>	<ol> <li>Clean/replace air filter.</li> <li>Replace spark plug.</li> <li>Recharge or replace battery.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> <li>Contact an authorized service center/department.</li> </ol>		
Engine will not turn over	<ol> <li>Clutch/brake pedal not depressed.</li> <li>Attachment clutch is engaged.</li> <li>Weak or dead battery.</li> <li>Blown fuse.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty ignition switch.</li> <li>Faulty solenoid or starter.</li> <li>Faulty operator presence switch(es).</li> </ol>	<ol> <li>Depress clutch/brake pedal.</li> <li>Disengage attachment clutch.</li> <li>Recharge or replace battery.</li> <li>Replace fuse.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace ignition switch.</li> <li>Check/replace solenoid or starter.</li> <li>Contact an authorized service center/department.</li> </ol>		
Engine clicks but will not start1.Weak or dead battery. 2.2.Corroded battery terminals. 3.3.Loose or damaged wiring. 4.4.Faulty solenoid or starter.		<ol> <li>Recharge or replace battery.</li> <li>Clean battery terminals.</li> <li>Check all wiring.</li> <li>Check/replace solenoid or starter.</li> </ol>		
Loss of power1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel.10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment.		<ol> <li>Set in "Higher Cut" position/reduce speed.</li> <li>Adjust throttle control.</li> <li>Clean underside of mower housing.</li> <li>Clean/replace air filter.</li> <li>Check oil level/change oil.</li> <li>Clean and regap or change spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean/replace muffler.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service Adjustments section.</li> </ol>		
Excessive vibration       1. Worn, bent or loose blade.         2. Bent blade mandrel.         3. Loose/damaged part(s).		<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ol>		

# **TROUBLESHOOTING POINTS**

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

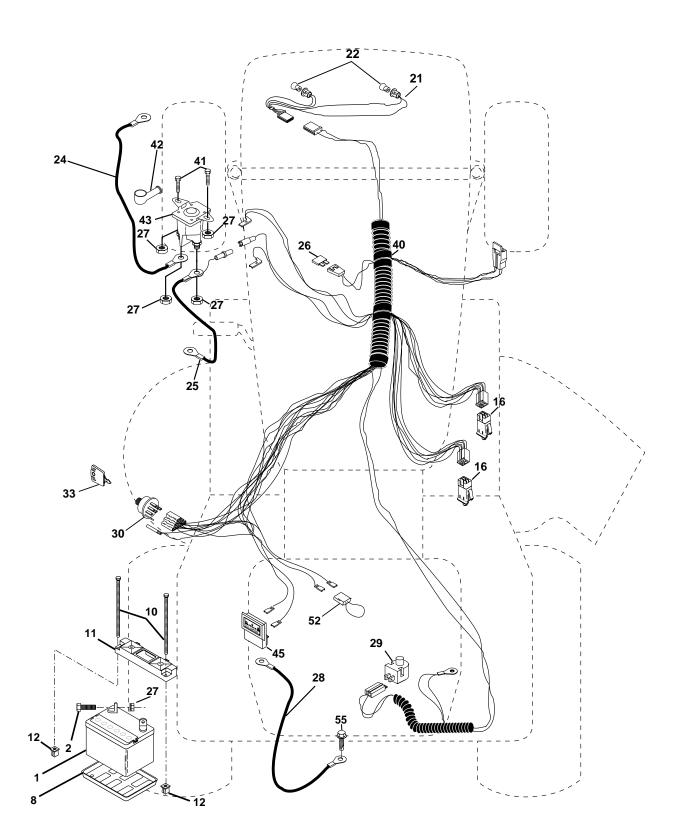
### TRACTOR - - MODEL NUMBER 944.600701

#### SCHEMATIC



TRACTOR - - MODEL NUMBER 944.600701

ELECTRICAL



## TRACTOR - - MODEL NUMBER 944.600701

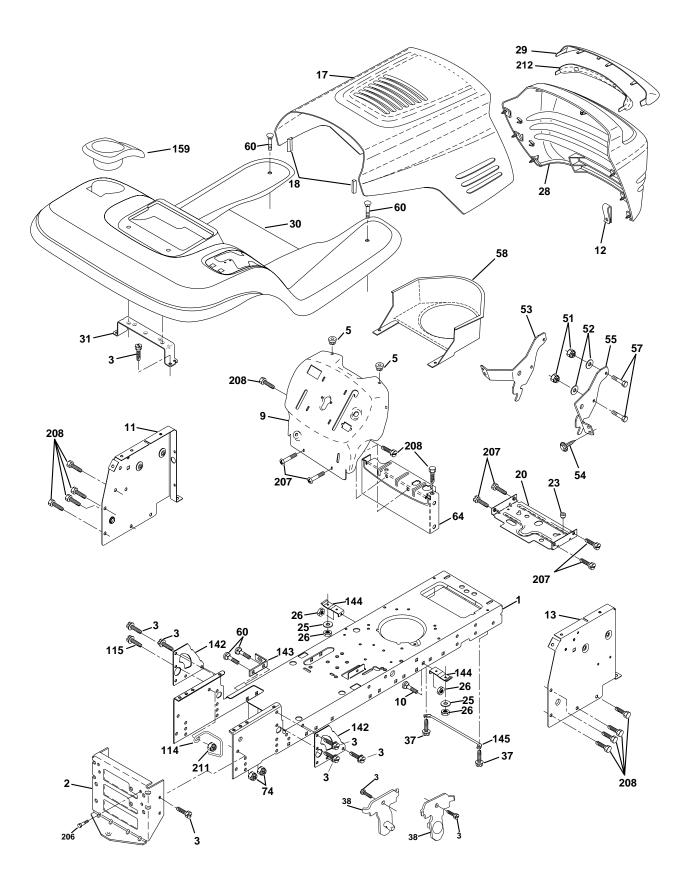
### ELECTRICAL

KEY NO.	Part No.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt Hex Hd 1/4-20unc x 3/4
8	7603J	Case Battery
10	145211	Bolt Btr Frt 1/4-20 x 7.5
11	150109	Hold down Battery Front
12	145769	Nut Push Nylon 1/4 Batt Frt Switch Interlock Push-In
16 21	153664 166182	
21	4152J	Harness Asm Light W/4152J Bulb Light #1156
24	4799J	Cable Battery 6 Ga 11"red
25	146148	Cable Battery
26		Fuse 15 AMP
27	73510400	Nut, Keps Hex 1/4-20 UNC
28	145491	Cable Ground
29	121305X	Switch Plunger Nc Gray
30	163968	Switch Ign
33	140403	Key Ign
40	170217	HarnessIgn
41	71110408	Bolt Blk Fin Hex 1/4-20unc X 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
45	121433X	Ammeter
52	141940	Protection Wire Loop (Hourmeter)
55	17490508	Screw Thdrol 5/16-18 x 1/2

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

TRACTOR - - MODEL NUMBER 944.600701

CHASSIS AND ENCLOSURES



# TRACTOR - - MODEL NUMBER 944.600701

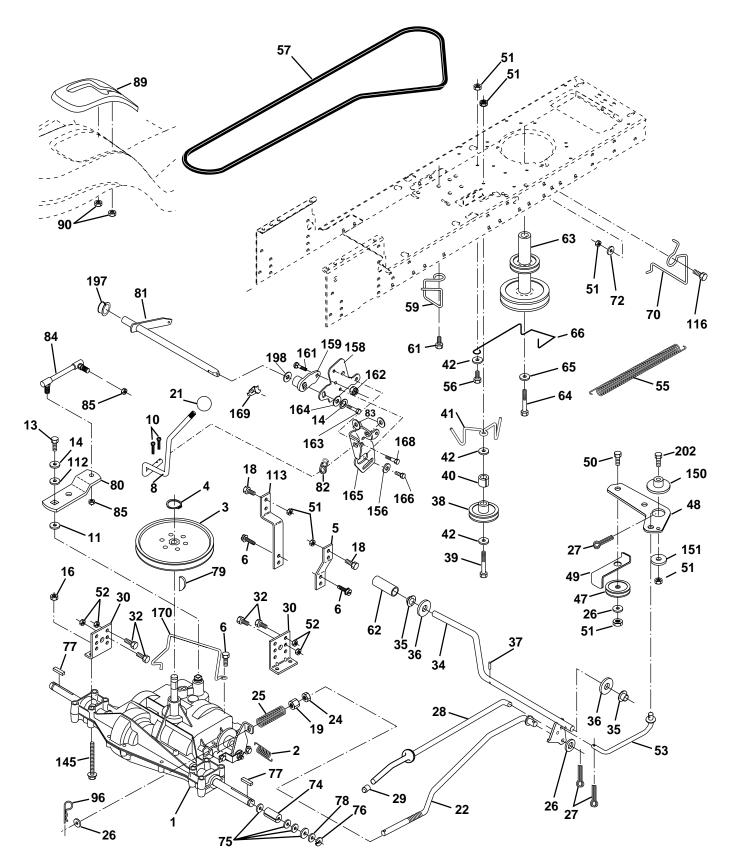
CHASSIS AND ENCLOSURES

KEY	PART	DESCRIPTION
NO.	NO.	DESCRIPTION
1	169830	Chassis
2	169061	Drawbar
3	17060612	Screw 3/8-16 x 3/4
5	155272	Bumper Hood/Dash
9	168337X011	Dash
10	STD533710	Bolt Carriage 3/8-16 x 1
11	155927	Panel Dash Lh
12	145660	Clip Tinnerman Grille P/L
13 17	172108 144983X558	Panel Dash Rh Hood
18	126938X	Bumper Hood
20	156437	Plate Mtg Batt
23	124028X	Bushing Snap
25	19131312	Washer 13/32 X 13/16 X 12 Ga
26	STD541437	Nut Lock Hex W/Ins 3/8-16 Unc
28	156725X558	Grille / Lens Asm
29	155217X599	Lens Grille
30	164919X558	Fender / Footrest
31	139976	Bracket Support Fender
37	17490508	Screw Thdrol 6/16-18 x 1/2 TYT
38	169834	Bracket, Asm. Pivot, Mower Rear
51	73800400	Nut Lock Hex W/Ins 1/4-20
52	19091416	Washer 9/32 x 7/8 x 16 Ga.
53	145201	Bracket Grille Pick off L.H.
54	161464	Screw Hex Wshd 8-18 x 7/8
55	145202	Bracket Grille Pickoff R.H.
57	74780412	Bolt Hex 1/4-20 x 3/4
58 60	140547 STD522707	Air Duct
60 64	STD533707 154798	Bolt Rdhd Sqnk 3/8-16unc x 3/4 Dash Lower STLT
74	STD541437	Nut Crownlock 3/8-16 UNC
114	158112	Keeper Belt Rear LH
115	17060620	Screw 3/8-16 x 1-1/4
142	165867	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	154207	Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
159	155123X428	Cup Holder
206	170165	Bolt Shoulder 5/16-18
207	17670508	Screw Thdrol 5/16-18 x 1/2
208	17670608	Screw Thdrol 3/8-16 x 1/2
211	145212	Nut Lock Hex Flange
212	165919	Insert Lens Reflective

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

TRACTOR - - MODEL NUMBER 944.600701

DRIVE



### TRACTOR - - MODEL NUMBER 944.600701

#### DRIVE

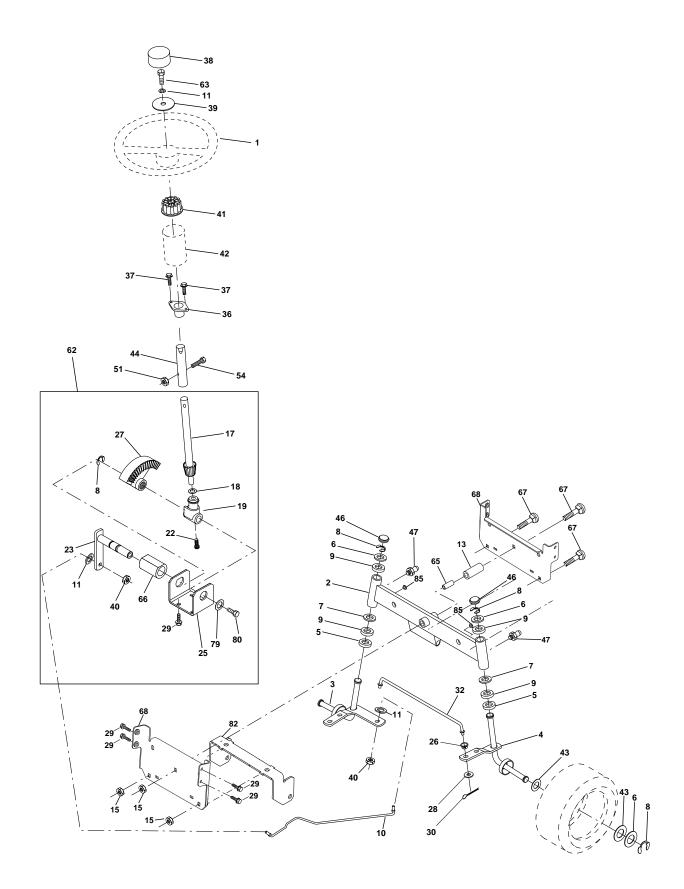
# KEY PART

KEY	PARI	DECODIDITION
NO.	NO.	DESCRIPTION
1		Transaxle (See Breakdown) Peerless 206-545C
2	146682	Spring Return Brake T/a Zinc
3	123666X	Pulley Transaxle 18" tires
4	12000028	Ring Retainer # 5100-62
5	121520X	Strap Torque 30 Degrees
6	17060512	Screw 5/16-18 x 3/4
8 10	165866 STD561210	Rod Shifter Fender Adj Lt Pin Cotter 1/8 x 1 Cad
10	STD561210 105701X	Washer Plate Shf 388 Sq Hole
13	74550412	Bolt 1/4-28 Unf Gr 8 W/Patch
14	10040400	Washer Lock Hvy Helical 1/4
16	STD541431	Nut Lock Hx W/Ins 5/16-18 Unc
18	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5
19	STD541437	Nut Lock 3/8-16 Unc
21	106933X	
22 24	130804 STD541227	Rod Brake Blk Zinc 26 840 Nut Hex Jam 3/8-16 Unc
24 25	STD541237 106888X	Spring Rod Brake 2 00 Zinc
26	STD551037	Washer 13/32 x 13/16 x 16 Ga
27	STD561210	Pin Cotter 1/8 X 3/4 Cad
28	145204	Rod Brake Parking LT/YT
29	71673	Cap Brake Parking
30	169592	Bracket Mtg Transaxle
32	STD523107	Bolt Hex Hd 5/16-18unc x 3/4
34 35	155071 120183X	Shaft Asm Pedal Foot Bearing Nylon Blk 629 Id
36	STD551062	Washer $21/32 \times 1 \times 16$ Ga
37	STD571810	Pin Roll 3/16 x 1"
38	131494	Pulley Idler Flat
39	STD523727	Bolt Fin Hex 3/8-16unc x 2-3/4
40	4470J	Spacer Split 395 x 59 Bzp
41	165838	Keeper Belt Retainer Idler
42	19131312	Washer 13/32 x 13/16 x 12 Ga
47 48	127783 154407	Pulley Idler V Groove Plastic Bellcrank Asm
49	123205X	Retainer Belt Style Spring
50	STD523715	Bolt Hex Hd 3/8-16unc x 1-1/2
51	STD541437	Nut Crownlock 3/8-16 Unc
52	STD541431	Nut Crownlock 5/16-18 Unc
53	105710X	Link Clutch
55	105709X	Spring Return Clutch 6 75
56	STD523712	Bolt Fin Hx 3/8-16 X 1-1/4
57 59	130801 169691	V-Belt Ground Drive Keeper Belt Span Ctr
59 61	17060612	Screw 3/8-16 x 3/4
62	8883R	Cover Pedal Blk Round
-		

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

## TRACTOR - - MODEL NUMBER 944.600701

## STEERING ASSEMBLY



### TRACTOR - - MODEL NUMBER 944.600701

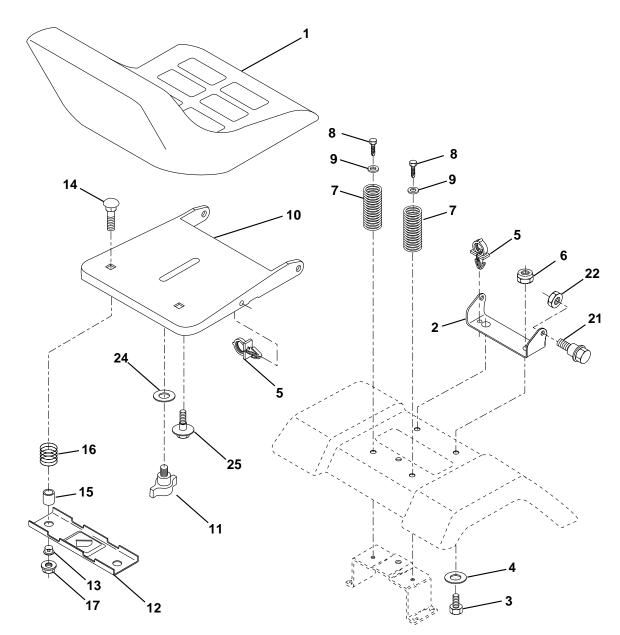
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
<b>NO.</b> 1 2 3 4 5 6 7 8 9 10 11 3 15 17 8 19 22 32 56 27 8 9 30 32 36 37 8 9 41 42 43 44 64 7 51 42 63 65 66 76 8 79 80 82	NO. 139768 154427 169840 169839 6266H 121748X 19272016 12000029 3366R 169832 STD551137 136518 145212 156546 57079 160395 165857 165851 154406 126847X 136874 19131416 17060612 STD561210 130465 155099 152927 139769 19133812 STD541537 100711L 145054X428 121749X 153720 121232X 6855M STD541431 STD541431 STD543112 167902 STD523710 160367 154404 72140618 169827 19132012 74950612 169835	DESCRIPTION Wheel Steering Axle Asm STMP Dropped STL Spindle Asm LH Spindle Asm RH Bearing Race Thrust Harden Washer 25/32 X 1-5/8 X 16 Ga Washer 27/32 X 1-1/4 X 16 Ga Ring Klip #t5304-75 Bearing Col Strg Blk Link Drag Washer Lock Hvy HIcl Spr 3/8 Spacer Bearing Axle Nut Lock Hex Flange Shaft Asm Strg Washer Thrust 515x 750x 033 Support Shaft Screw Hex WSH HD Torx Shaft Asm Pittman Bracket Steering Bushing Link Drag Blk LR Gear Sector Washer 13/32 x 7/8 x 16 Ga Screw 3/8-16 x 3/4 Pin Cotter 1/8 x 3/4 Cad Rod Tie Wire Form 19 75 Mech Bushing Strg Screw Insert Cap Strg Wh Au Washer 13/32 x 2-3/8 x 12 Ga Lock nut Adaptor Wheel Strg Boot Steering Shaft Washer 25/32 x 1 1/4 x 16 Ga Extension Steering Shaft LR/LT Cap Spindle Fr Top Blk Fitting Grease Nut Lock Hex w/Ins 5/16-18 Bolt Fin Hex 5/16-18 unc x 1-1/4 Kit, Steering Assembly Svc Bolt Fin Hex 3/8-16 unc x 2-1/4 Axle, Brace Washer 13/32 x 1-1/4 x 12 Ga. Bolt Hex Nylon 3/8-16 x 3/4 Bracket Susp Chassis Front
85	133835	Fastener Christmas tree

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

## TRACTOR - - MODEL NUMBER 944.600701

SEAT ASSEMBLY



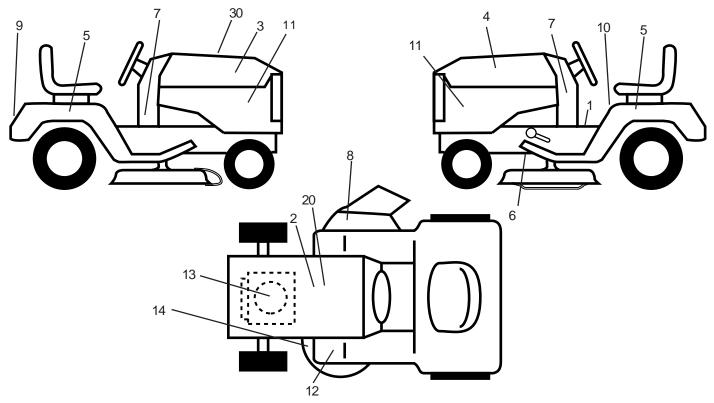
KEY NO.	PART NO.	DESCRIPTION
INO.	NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket Pivot Seat 8 720
3	71110616	Bolt Fin Hex 3/8-16unc x 1
4	19131610	Washer 13/32 X 1 x 10 Ga
5	145006	Clip Push-In
6	STD541437	Nut Hex w/Ins. 3/8-16 Unc
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17000616	Screw 3/8-16 x 1-1/2
9	19131614	Washer 13/32 x 1 x 14 Ga.
10	155925	Pan Seat
11	166369	Knob Seat
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 x1-1/2
15	134300	Spacer Split 28x 96 Yel Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc
21	171852	Bolt Shoulder 5/16-18 unc
22	STD541431	Nut Hex Lock W/Ins 5/16-18
24	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
25	127018X	Bolt Shoulder 5/16-18 x 62

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

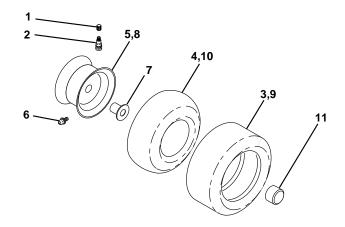
#### TRACTOR - - MODEL NUMBER 944.600701

#### DECALS



KEY NO.	part No.	DESCRIPTION	KEY NO.	Part No.	DESCRIPTION
1 2	156369 138047	Decal Fend STLT Oper Decal Battery Diehard Sears	12 13	166887 170933	Decal Mower EZ3 Decal HP Engine
3 4	171696 171697	Decal Hood RH Decal Hood LH Decal Foundar CD What Deck/Core 40	14 20	160396 149517	Decal V-Belt Schematic Decal Bat Dan/Psn
5 6 7	163207 146046 166927	Decal Fender SD Wht Rad/6sp 42" Decal V Belt Drive Sch Decal Dash Pnl B&S	30 	172267 165800X428 165799X428	Decal Replacement Parts Pad Footrest LH STLT Pad Footrest RH STLT
8 9	137259 163204	Decal Warning Mult-Language Decal Craftsman		138311 <b>173494</b>	Decal Handle Lft Height Adjust Manual Owner's (English)
10 11	157140 168420	Decal Fender Danger Eng/Fr Decal Pnl Side		173495	Manual Owner's (French)

#### WHEELS & TIRES

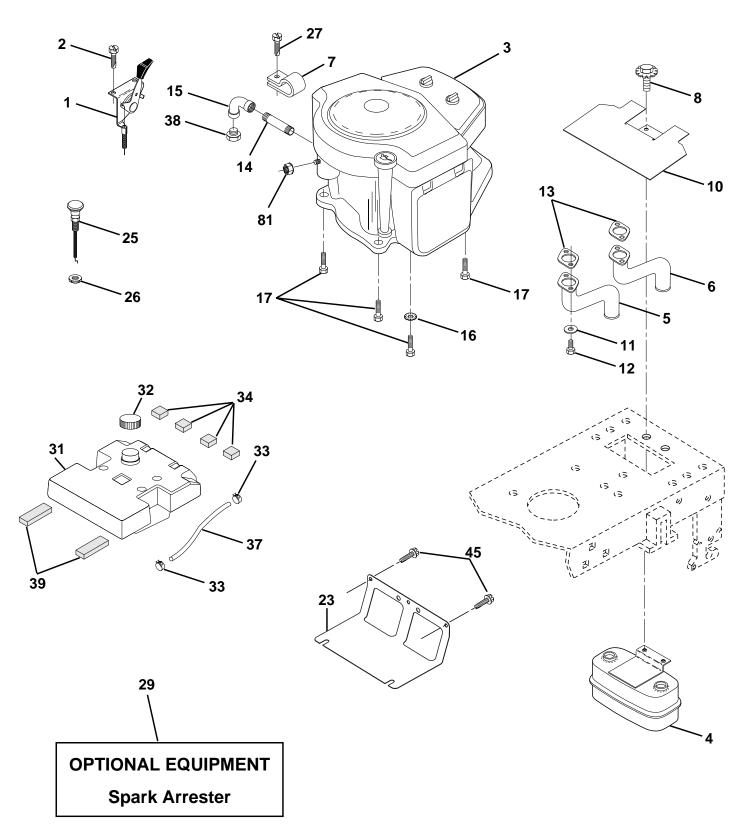


KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire Front
4	59904	Tube Front (Service Item Only)
5	106732X427	Rim Asm 6"front Service
6	278H	Fitting Grease (Front Wheel Only)
7	9040H	Bearing Flange (Front Wheel nly)
8	106108X427	Rim Asm 8"rear Service
9	122082X	Tire Rear
10	7152J	Tube Rear (Service Item Only)
11	104757X	Cap Axle Blk 1 50 x 1 00
	144334	Sealant, Tire (10 oz. Tube)

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

TRACTOR - - MODEL NUMBER 944.600701

ENGINE



#### TRACTOR - - MODEL NUMBER 944.600701

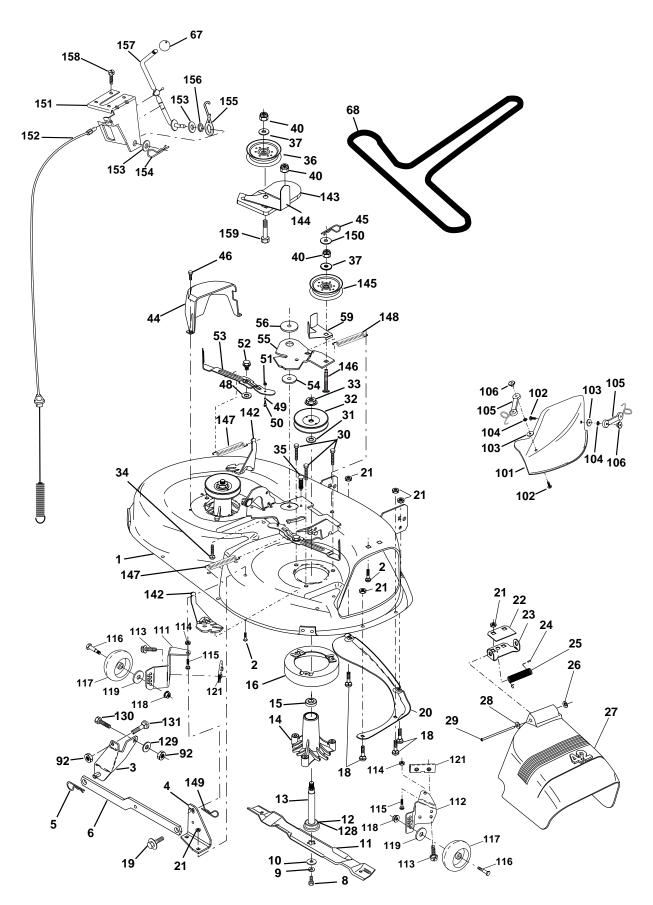
#### ENGINE

Key No.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 10 11 2 3 4 5 6 7 8 10 11 2 3 4 5 6 7 8 10 11 2 3 4 5 6 7 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	162152 17720410 149723 144069 144068 138129 150176 145552 STD551125 STD522507 165287 13280336 13200300 STD551237 17490624 169837 145996 73920600 152927 137180 157103 161696 123487X 106082X 8543R 109227X 17000612 73510400	Control Throt Paddle Screw Hex Thd Cut 1/4-20x5/8 T Engine (See Breakdown) B&S Model No. 461707-0145-E3 Muffler Exhaust Exhaust Asm. Left Exhaust Asm. Right Clamp Tube Double Engine Bolt 5/16-18 unc x 3/4 w/sems Heat Shield Lt Washer Lock Hvy. Helical 1/4 Bolt Fin Hex 1/4-20 x 3/4 Gasket Muffler Nipple Pipe 4-1/2" Elbow Std 90 Degree 3/8-18 Npt Washer Lock Ext Tooth 3/8 Screw Thdrol 3/8-16x1-1/2 Tytt Shield BRN/DBR Guard Control Choke Nut Keps 3/8-24 UNF Screw TT Flange Arrestor Spark Tank Fuel 3.5 STL W/O Sensor Cap Fuel Gauge Clamp Hose Blk Strip Foam Line Fuel Plug Oil Drain (See Engine Breakdown) Pad Spacer Screw Hex wsh Thdrol 3/8-16 x 3/4 Nut Keps Hex 1/4-20 unc

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

#### TRACTOR - - MODEL NUMBER 944.600701

**MOWER DECK** 



#### TRACTOR - - MODEL NUMBER 944.600701

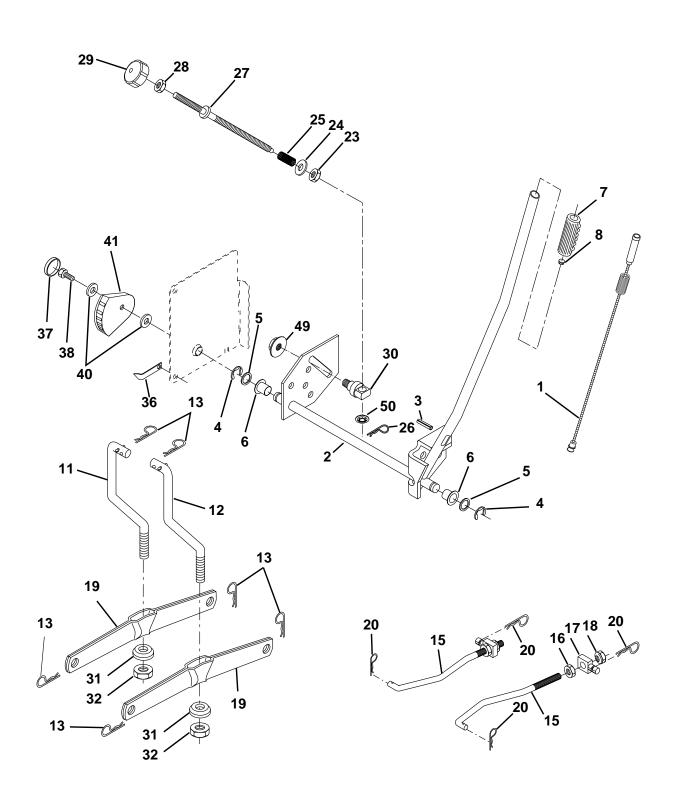
#### **MOWER DECK**

Key No.	PART NO.	DESCRIPTION	KEY NO.
1	165892	Mower Deck Assembly, 42"	52
2 3	STD533107 138017	Bolt Brocket Accombly Sway Bor, Front	53 54
3 4	165460	Bracket Assembly,Sway Bar, Front Bracket Sway Bar 38/42" Deck	54 55
5	STD624008	Retainer Spring	56
6	130832	Arm, Suspension, Rear	59
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	67
9	STD551137	Washer, Lock	68
10	140296	Washer, Hardened	92
11	134149	Blade Mulching 42" (Originally	101
	138498	Equipped With) Blade Mower 42" Hi-Lift Std (For	102 103
	130490	Better Bagging, Especially In Wet	103
		Conditions)	105
	139775	Blade Mulching 42" Premium (For	106
		Better Wear When Mulching)	111
	138971	Blade Mower 42" Hi-Lift Premium	112
		(For Better Wear When Bagging In	113
10	100005	Heavy or Wet Conditions)	114
12 13	129895	Bearing, Ball	115
13 14	137645 128774	Shaft Assembly, Mandrel, Vented Housing, Mandrel, Vented	116 117
15	110485X	Bearing, Ball, Mandrel	118
16	140329	Stripper, Vented Mower Deck	119
18	STD533103	Bolt, Carriage 5/16-18 x 5/8	121
19	132827	Bolt, Shoulder	128
20	159770	Baffle, Vortex	129
21	STD541431	Nut Crownlock 5/16-18 UNC	130
22 23	134753 131267	Stiffener Bracket Bracket, Deflector	131 142
23 24	105304X	Cap, Sleeve	142
25	123713X	Spring, Torsion, Deflector	144
26	110452X	Nut, Push	145
27	130968X428	Shield, Deflector	146
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	147
29	131491	Rod, Hinge	148
30 31	157722 129963	Screw Thdrol Washer Head Washer, Spacer	149 150
32	153535	Pulley, Mandrel	150
33	137266	Nut, Toplock, Flanged	152
34	STD533717	Bolt	153
35	133835	Fastner, Christmas Tree	154
36	131494	Pulley, Idler, Flat	155
37	STD551037	Washer 13/32 x 13/16 x 16 Gauge	156
40 44	STD541437 140088	Nut Crownlock 3/8-16 UNC	157 158
44 45	STD624003	Guard, Mandrel, L.H. Retainer	158
40	137729	Screw, Thd. Roll 1/4-20 x 5/8	
48	133944	Washer, Hardened	
49	155066	Roller Assembly, Cam Follower	
50	131340	Bolt, Shoulder #10-24 Grade 5	
51	STD541410	Locknut	NOTE

key No.	Part No.	DESCRIPTION
		DESCRIPTION Bolt, Shoulder 5/16-18 unc Arm Assembly, Pad, Brake Washer, Hardened Arm, Idler Spacer, Retainer Guard, TUV Idler Knob Custom Oval V-Belt Nut Mulcher Cover Screw Washer #10 Washer, Lock Latch Assembly, Bagger Nut, Weld Bracket, Ga. Wheel LH Bracket, Ga. Wheel LH Bracket, Ga. Wheel RH Screw 5/16-18 x 3/4 Nut, Hex, Keps 5/16-18 Bolt, Carriage 5/16 - 18 x 1/2 Bolt Shoulder Wheel Gauge Nut, Centerlock 3/8-16 Washer 3/8 x 7/8 x 14 Ga. Bracket Washer Felt Washer Felt Washer Falt Washer 13/32 x 13/16 x 12 Ga. Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5 Bolt, Rdhd Sqnk 3/8-16 UNC Arm Spring Brake Mower Bracket Arm Idler 42" Keeper Belt 42" Clutch Cable Pulley Idler Flat Bolt Carriage Idler Spring Extension Spring Return Idler Retainer Spring Yellow Zinc Washer 9/32 x 3/4 x 16 Ga. Bracket Clutch Cable Clutch 42 In Washer Flat 3/8" Type B Spring Retainer Spring Retainer Spr
159  	72140614 130794 169583	Bolt Rdhd Qsn 3/8 - 16 unc x 1-3/4 Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 33) Mower Deck, Complete

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

LIFT

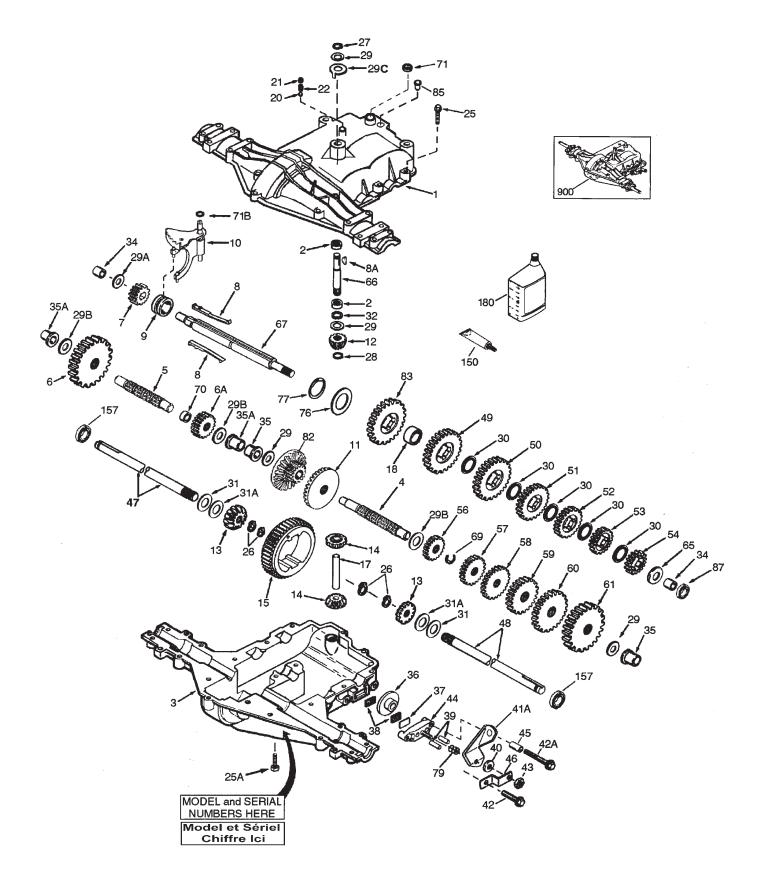


LIFT

KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner W/Plunge5r
2 3	159471	Shaft Asm Lift
	105767X	Pin Groove
4 5	STD581062 19211621	E Ring Washer 29/32 x 1-1/4 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	RetainerSpring
15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	STD541450	Nut Lock w/Wsh 1/2-13 Unc
19 20	139868 163552	Arm Suspension Rear Spring Retainer
20	110807X	Nut Special
24	STD551037	Washer 13/32 x 5/8 x 16 Ga.
25	2876H	Spring
26	169484	Retainer Clip
27	126971X	Rod Adjust Lift
28	STD541237	Nut Hex Jam 3/8-16 unc
29	138057	Knob Infinite 3/8-16 unc Black
30	150233	Trunnion Infinite Height
31	140302	Bearing Pvt. Lift Spherical
32 36	73540600	Nut Lock 3/8-24
30 37	155097 123935X	Pointer Height Indicator Plug Hole
38	17060516	Screw 5/16-18 x 1
40	19112410	Washer 11/32 x 1-1/2
41	155098	indicator Height
49	145212	Nut Lock Hex Flange
50	110452X	Nut Push

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

#### TRACTOR - - MODEL NUMBER 944.600701 PEERLESS PMST TRANSAXLE - MODEL NUMBER 206-545C



#### TRACTOR - - MODEL NUMBER 944.600701 PEERLESS PMST TRANSAXLE - MODEL NUMBER 206-545C

REF	PART		35A	780197	Flanged Bushing .751
NO.		DESCRIPTION	36	790075	Brake Disk
			37	790007	Brake Pad Plate
1	772147	Transaxle Cover	38	799021	Brake Pad (pkg of 2)
2	780086A	Needle Bearing 5/8"	39	786026	DowelPin
3	770128	Transaxle Case	40	792076A	Flat Washer .312 ID x .059W
4	776395	Countershaft	REF	PART	
5	776409	Output Shaft		NO.	DESCRIPTION
6	778364	Spur Gear (38 teeth)			
6A	778369	Spur Gear (15 teeth)	41A	790079	BrakeLever
7	778330	Spur Gear (11 teeth)	42	792073A	Screw 1/4 - 20 x 1 - 1 / 4"
8	792180	Shift Key	42A	792085A	Screw 1/4 - 20 x 2 1/4"
8A	792047	Woodruff Key #9	43	792075	Locknut 5 / 16 - 24
9	784352	Shift Collar	44	790025	Brake Pad Holder
10	784378	Shift Rod & Fork	45	786066	Spacer.2625 x 1.0
11	778334	Bevel Gear (30 teeth)	46	786086	Brake Lever Bracket
12	778309	Input Bevel Pinion (13 teeth)	47	774690	Axle(11-15/16"Long)
13	778368	Bevel Gear (13 teeth) (Include. 14)	48	774691	Axle(16 - 1/2" long)
14	778368	Bevel Pinion (13 teeth) (Include. 13)	49	778356	Spur Gear (29 teeth)
15	778370	Ring Gear (43 teeth)	50	778338	Spur Gear (27 teeth)
17	786188	DrivePin	51	778354	Spur Gear (23 teeth)
18	786102	Spacer 1.130 X.695	52	778352	Spur Gear (19 teeth)
20	792077A	Ball 5/16" dia	53	778350	Spur Gear (16 teeth)
21	792078	Set Screw 3/8 - 16 x 3/8"	54	778346	Spur Gear (15 teeth)
22	792079	Spring.310 ODx.625 L	56	778355	Spur Gear (11 teeth)
25	792073A	Screw 1/4 - 20 x 1 - 1/4"	57	778337	Spur Gear (13 teeth)
25A	792177	Screw 1/4-20 x 1-3/8"	58	778353	Spur Gear (17 teeth)
26	792125	Retaining Ring (pkg of 2)	59	778351	Spur Gear (21 teeth)
27	792035	Retaining Ring	60	778349	Spur Gear (24 teeth)
28	788040	Retaining Ring	61	778345	Spur Gear (25 teeth)
29	780072	Thrust Washer .627 ID x .031W	65	780189	Flat Washer .563 ID x .062W
29A	780160	Thrust Washer .762 ID x .031W	66	776422	Input Shaft
29B	780051	Thrust Washer .762 ID x .031W	67	776396	Shifter & Brake Shaft
29C	780199	Anti-Rotation Washer .632	69	792170	Retaining Ring
30	780108	Cup Washer 1.127 ID x .032W	70	786187	Spacer.890
31	780001	Flat Washer .750 ID x .056W (Use As	71	788069	Square Cut Ring
		Needed)	71B	788092	"O" Ring
31A	780195	Flat Washer .750 ID x .062W	76	780090	Flat Washer 1.128 ID x .058W
32	788083	Oil Seal 5/8"	77	788078A	Inverted Retaining Ring
34	780194	Bushing .563	79	792144	Spring.430 OD x.5000 L
35	780193	Flanged Bushing 5 / 8" ID	82	778333	Bevel & Spur Gear (30 & 13 teeth)
		5 5	83	778338	Spur Gear (27 teeth)
			85	792154	Oil Fill Plug

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

Oil Seal 9/16"

Oil Seal 3/4"

Gear Oil 80W90

Liquid Gasket RTV Silicone

Replacement MST-206-545C Transaxle

87

157

180

900

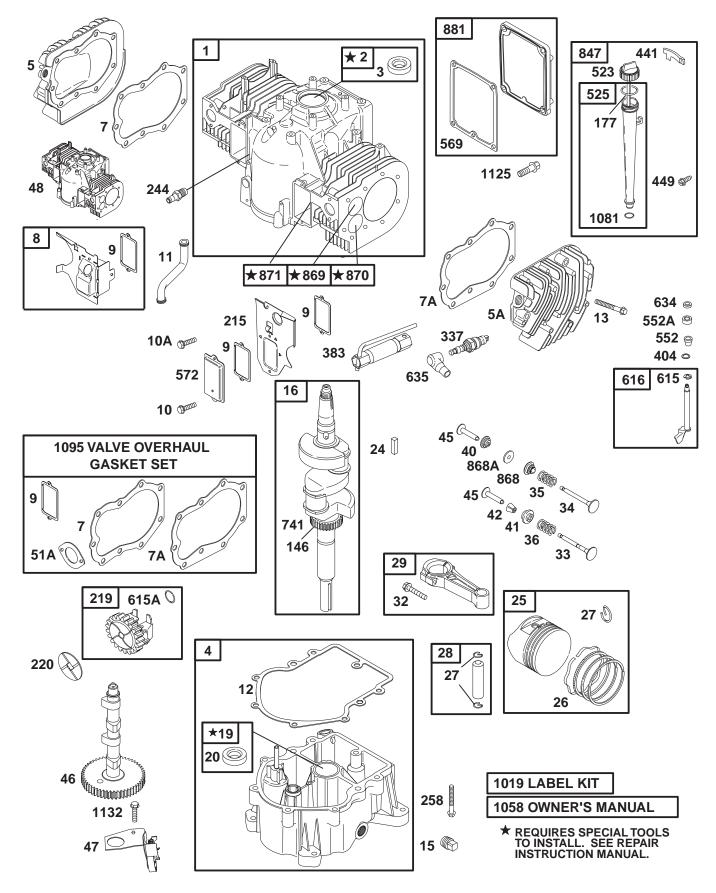
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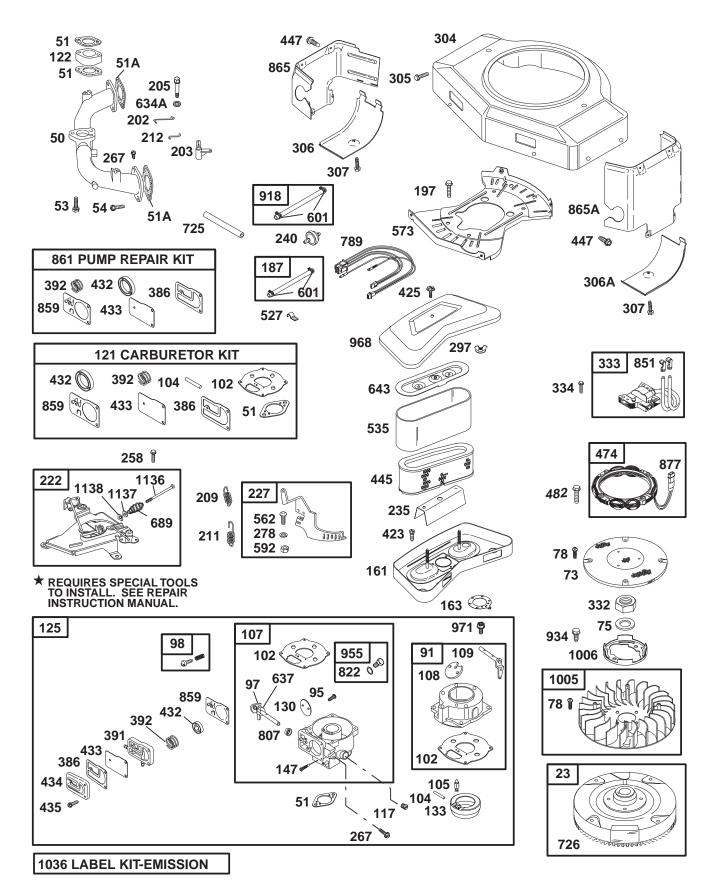
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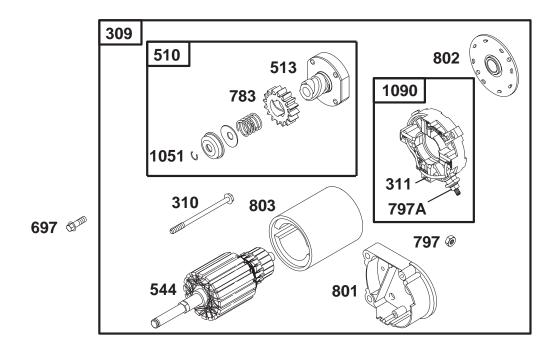
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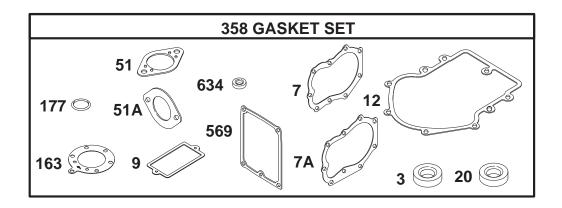
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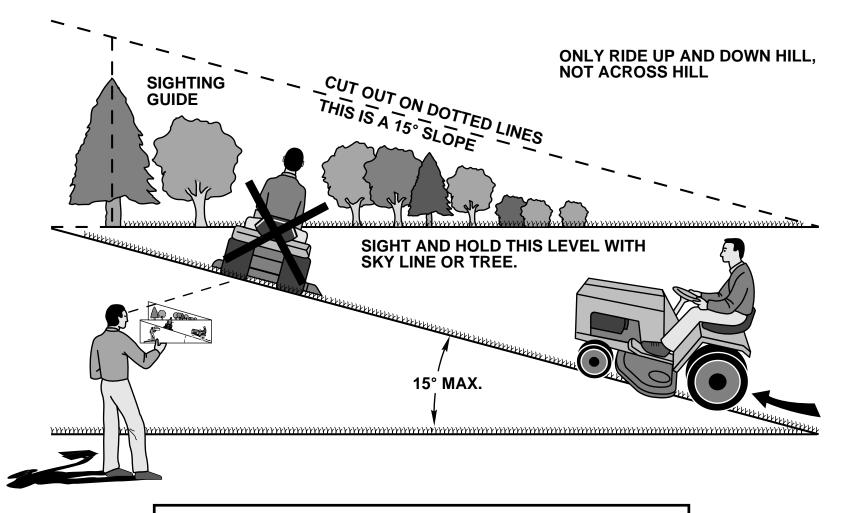




KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	498583	Cylinder Assembly	95	690718	Screw (Throttle Valve)
2	399265	Bushing/Seal Kit	97	693485	Shaft-Throttle
3	391086	★ Seal-Oil	98	807923	Kit-Idle Speed
4	493304	Sump-Engine	102	693509	<ul> <li>Gasket-Carburetor Body</li> </ul>
5	691162	Head-Cylinder #1	104	693506	Pin-Float Hinge
5A	691163	Head-Cylinder #2	105	692078	<ul> <li>Valve-Float Needle</li> </ul>
7	271867	★◆ Gasket-Cylinder Head #1	107	693482	Body Assembly-Lower
7A	271868	★◆ Gasket-Cylinder Head #2	108	693505	Valve-Choke
8	495754	Breather Assembly (Cylinder #1)	109	693498	Shaft-Choke
9	27803	★◆ Gasket-Breather	117		Jet-Main
10	690334	Screw (Breather Assembly)		693500	Jet-Main (High Altitude)
10A	690366	Screw (Breather Cover)	121	491539	Carburetor Kit
11	280225	Tube-Breather	122	281411	Spacer
12	273390	★ Gasket-Crankcase (.015" Thick, Std.)	125		Carburetor
	271188	★ Gasket-Crankcase (.005" Thick)		693504	Valve-Throttle
4.0	271189	★ Gasket-Crankcase (.009" Thick)	133	693512	Float-Carburetor
13	94565	Screw (Cylinder Head)	146	94196	Key-Timing
15	94239	Plug-Oil Drain	147	693508	Jet-Pilot
16	690666	Crankshaft	161	691401	Base-Air Cleaner
19	399264	Bushing	163	271411	★ Gasket-Air Cleaner
20	291675	★ Seal-Oil	177	271170	* Seal-O-Ring
23	491180	Flywheel Key Elwyheel	187	499167	Line-Fuel (Cut to Required Length)
24	222698	Key-Flywheel	197		Screw (Back Plate)
25	499180	Piston Assembly (Standard)		690570	Link-Mechanical Governor
	499181	Piston Assembly (.010 "O.S.)	203 205	280997	Crank-Bell Scrow (Boll Crank)
	499182 499183	Piston Assembly (.020" O.S.) Piston Assembly (.030" O.S.)	205	690322 691273	Screw (Bell Crank) Spring-Governor
26	499183	Ring Set, Piston (Standard)	209	261563	Spring-Governor
20	499184	Ring Set, Piston (Januard) Ring Set, Piston (John Glandard)	211		Link-Throttle
	499284	Ring Set, Piston (.020 "O.S.)	212	690481	Guide-Air
	499187	Ring Set, Piston (.020 °O.S.)	213	394348	Gear-Governor
27	691299	Lock-Piston Pin	220	690412	Washer-Thrust (Governor Gear)
28	498319	Pin Assembly, Piston (Std.)	222	491282	Bracket-Control
28	498320	Pin Assembly-Piston (.005" O.S.)	227		Lever-Governor
29	498314	Rod-Connecting (Standard)	235		Shield-Fuel Spray
29	498541	Rod-Connecting (.020 U.S.)	240	394358	Filter-Fuel
32	691133	Screw (Connecting Rod)	244	230318	Connector-Hose (Pulse Line)
33	390420	Valve-Exhaust (Include(s): 494553	258	94930	Screw (Engine Sump)
		Keeper-Valve (Ref. No. 42))	267	690316	Screw (Casing Clamp)
34	691302	Valve-Intake	278	691366	Washer (Governor Lever)
35	65906	Spring-Valve (Intake)	297	94289	Nut-Wing (Air Filter Retainer)
36	26828	Spring-Valve (Exhaust)	304	691390	Housing-Blower
40	221596	Retainer-Valve (Exhaust)	305	690960	Screw (Blower Housing)
41	292260	Retainer-Valve (Exhaust)	306	6904141	Shield-Cylinder
42	494553	Keeper-Valve	306A	690435	Shield-Cylinder
45	261368	Tappet-Valve			
46	691161	Camshaft	RPM	Settings:	Low Speed: 1900-2100
47	393415	Slinger-Oil			High Speed: 3000-320
48	498542	Short Block			
50	213290	Manifold-Intake	*		Gasket Set, Ref Number 358.
51	271412	★● Gasket-Intake	•		Carburetor Kit, Ref Number 121.
51A	270884	★◆ Gasket-Intake	۰.		Value Overhaul Kit, Ref Number 1095.
53	690321	Screw (Carburetor)	+ Inc	iuded in Fuel	Pump Kit, Ref Number 861
54	93208	Screw (Intake Manifold)	Not	<b>-</b>	
73	691438	Screen-Rotating			onent dimensions given in U.S. inches
75	225137	Washer (Flywheel)	1 INC	h = 25.4 mm	
78	691134	Screw (Flywheel Fan)			
91	693483	Body Assembly-Upper			

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
307	94930	Screw (Cylinder Shield)		693167	Nut (Starter Terminal)
309	497596		801	394860	Cap-Drive
310	690323	Bolt (Starter Motor)	802	497607	Cap-End
311	497608	Brush Set		691427	Housing-Starter
332 333	230674	Nut (Flywheel)	807 822	693511	Spacer
	394891 94731	Armature-Magneto Screw (Magneto Armature)	847	693497 495715	Washer-Seal (Throttle Shaft) Dipstick/Tube Assembly
337	802592	Plug-Spark	851	493880	Terminal-Cable
358	495868	Gasket Set	859		Diaphragm-Fuel Pump
383	89838	Wrench-Spark Plug	861	693502	Kit-Fuel Pump
386	693490 +	Gasket-Pump	865	691196	Cover-Air Guide
391	693487	Body-Pump	865A	691197	Cover-Air Guide
392	693491 +	Spring-Pump Diaphragm	868	497656	Seal-Valve
404	690442	Washer (Governor Crank)	868A	273312	Seal-Valve
423	691100	Screw (Air Cleaner Base)	869	261463	Seat-Valve (Intake)
425	94823	· · · · · · · · · · · · · · · · · · ·		262924	Seat-Valve (Exhaust)
		Cap-Spring	871	261961	Bushing-Guide (Exhaust)
433		Diaphragm-Fuel Pump	077	231218	Bushing-Guide (Intake)
434 435	693493 693494	Cover-Diaphragm Screw (Diaphragm Cover)	877 881	393456 495901	Wire-Alternator Plate-Cover
435	691176	Bracket-Oil Fill	918	393815	Hose-Vacuum (Cylinder-To-Impulse
445	394019	Filter-Air	510	000010	Pump)(Cut to Required Length)
447	690297	Screw (Air Guide Cover)	934	94627	Screw (Fan Retainer)
449	94882	Screw (Oil Fill Bracket)	955	693513	Plug-Carburetor
474	393474	Alternator	968	691207	Cover-Air Cleaner
482	93621	Screw (Alternator)	971	690720	Screw (Upper Body To Lower Body)
510	497606	Drive-Starter	1005	498157	Fan-Flywheel
513	398003	Clutch-Drive		691247	Retainer-Fan
523	691385	Dipstick		496726	Label Kit
525	690823	Tube-Oil Fill		694979	Label Kit-Emission
527	690423	Clamp-Tube	1051		Ring-Retaining
535 544	272490	Filter-Air Armature-Starter	1058	273688 280860 *	Owner's Manual
	497603 690553	Bushing (Governor Crank)		497605	Seal-O-Ring Retainer-Brush
	690552	Bushing (Governor Crank)		498047	Gasket Set-Valve Overhaul
	690311	Bolt-Carriage (Governor Lever)		691104	Screw (Cover Plate)
569		Gasket-Base		690353	Screw (Oil Slinger)
572	690415	Cover-Breather (Cylinder #2)		690329	Screw (Governor, Control Rod)
573	690764	Plate-Back	1137	690390	Washer (Governor, Control Rod)
592	92278	Nut (Governor Lever)	1138	690330	Nut (Governor, Control Rod)
601	95162	Clamp-Hose		445777-0027-E2	I Replacement Engine
	690328	Retainer (Governor Crank)			
	690317	Retainer-Governor Shaft	RPM	Settings:	Low Speed: 1900-2100
	491530	Crank-Governor			High Speed: 3000-320
		Seal-Governor Shaft		Included in Cool	kat Sat. Daf Number 259
	271013 66538	Washer-Foam Boot-Spark Plug	★ ●		ket Set, Ref Number 358. puretor Kit, Ref Number 121.
637		Washer-Seal	•		e Overhaul Kit, Ref Number 121.
	496700	Retainer-Air Filter			np Kit, Ref Number 861
	690555	Spring-Friction			
	93585	Screw (Drive Cap)	NOTE	E: All componen	t dimensions given in U.S. inches
	280866	Shield-Heat		n = 25.4 mm	<b>.</b>
726	391362	Gear-Ring			
		Gear-Timing			
	693059	Gear-Starter			
	695050	Wiring Harness			
797	94010	Nut (Starter Terminal)			

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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



## OWNER'S MANUAL

# MODEL NO. 944.600701

#### HOW TO ORDER REPAIR PARTS

# **CRAFTSMAN**<sup>®</sup>

## 20.5 HP ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

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

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

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

All parts listed herein may be ordered from any Sears Canada, Inc. Service Centre/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 944.600701
- ENGINE MODEL NUMBER 461707, TYPE NUMBER 0145-E3
- PART NUMBER
- PART DESCRIPTION

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