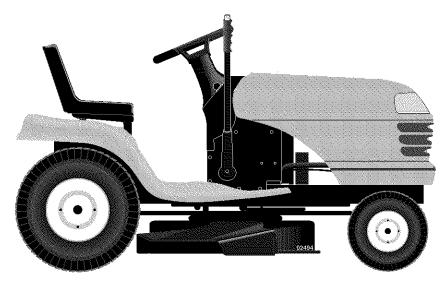
Owner's Manual

# **CRAFTSMAN®**

## **LAWN TRACTOR**

18.0 HP, 42" MowerElectric Start6 Speed Transaxle

Model No. 917.273391





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

## **IMPORTANT:**

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

**1-800-659-5917** Sears Craftsman Help Line 5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. Visit our Craftsman website:www.sears.com/craftsman

## **TABLE OF CONTENTS**

Warranty2	Maintenance17
Safety Rules3	Service and Adjustments21
Product Specifications	Storage
Assembly/Pre-Operation	Troubleshooting
Operation11	Repair Parts
Maintenance Schedule 17	Sears ServiceBack Cover

### WARRANTY

#### LIMITED WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace free of charge any parts that are found to be defective in material or workmanship according to the guidelines of coverage listed below. Sears will also provide free labor for these applicable warranted parts for the two full years. During the first 30 days of purchase, there will be no charges to service the product at your home for issues covered by this warranty. (See exclusions below). For your convenience, IN HOME warranty service will still be available after the first 30 days of purchase, but a trip charge will apply. This charge will be waived if the Craftsman product is dropped off at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®. This warranty applies only while this product is within the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, including but not limited to blades, spark plugs, air cleaners, belts, and oil filters.
   Standard Maintenance Servicing, oil changes, or tune-ups
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over-speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within 30 days of its purchase date.
- Normal deterioration and wear of the exterior finishes, or product label replacement. Riding equipment used for commercial or rental purposes.

#### LIMITED WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. During the first 30 days of purchase, there will be no charges to replace the battery at your HOME. After the first 30 days, for your convenience, IN-HOME warranty service will still be available but a trip charge will apply. This charge will be waived if the Craftsman product is dropped off at an authorized Sears location. For the nearest authorized Sears location, please call 1-800-4-MY-HOME®.

This battery warranty applies only while this product is within the United States.

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

Sears, Roebuck and Co., Dept.817WA, Hoffman Estates, IL 60179

## SAFETY RULES

**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.

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

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

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

WARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

#### I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.

- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause buildup to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

#### **II. SLOPE OPERATION**

Slopes are a major factor related to lossof-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.

## **SAFETY RULES**

#### DO:

• Mow up and down slopes, not across.

• Remove obstacles such as rocks, tree limbs, etc.

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

#### DO NOT:

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

#### **III. CHILDREN**

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

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.

- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### **IV. SERVICE**

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

### SAFETY RULES



- 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.

#### **PRODUCT SPECIFICATIONS**

Gasoline Capacity and Type:	1.25 Unleaded Regular
Oil Type (API-SF-SJ):	SAE 30 (above 32°F) SAE 5W-30(below 32°F)
Oil Capacity:	W/Filter 3.5 Pints W/O Filter 3.0 Pints
Spark Plug: (Gap: .030")	Champion RC12YC
Ground Speed (MPH):	Forward: 1st 1.1 2nd 1.4 3rd 2.2 4th 3.4 5th 4.3 6th 5.5 Reverse: 1.7
Tire Pressure:	Front: 14 PSI Rear: 12 PSI
Charging System:	3 Amps Battery 5 Amps Headlights
Battery:	Amp/Hr: 28 Min. CCA: 230 Case Size: U1R
Blade Bolt Torque	: 27-35 Ft. Lbs.

**CONGRATULATIONS** on your purchase of a new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact a Sears or other qualified service center. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

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

#### **CUSTOMER RESPONSIBILITIES**

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

**WARNING:** This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears service center (See REPAIR PARTS section of this manual).

#### REPAIR PROTECTION AGREEMENTS

Congratulations on making a smart purchase. Your new Craftsman® product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation. Purchase a Repair Protection Agreement now and protect yourself from unexpected hassle and expense.

- Here's what's included in the Agreement:
- Expert service by our 12,000 profesional repair specialists.
- Unlimited service and no charge for parts and labor on all covered repairs.
- Product replacement if your covered product can't be fixed.
- Discount of 10% from regular price of service and service-related parts not covered by the agreement; also, 10% off regular price of preventive maintenance check.
- Fast help by phone phone support from a Sears technician on products requiring in-home repair, plus convenient repair scheduling.

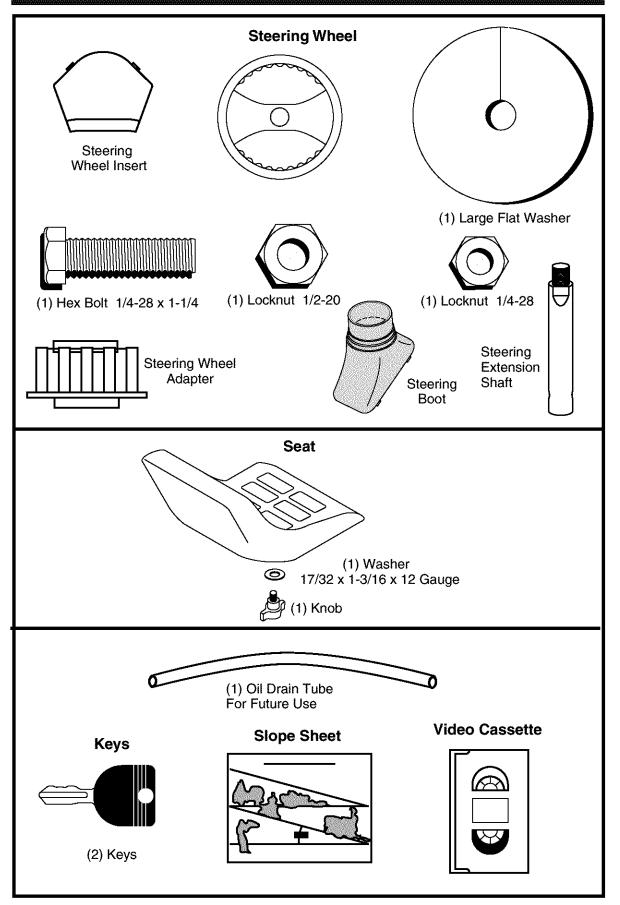
Once you purchase the Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

Sears has over 12,000 professional repair specialists, who have access to over 4.5 million quality parts and accessories. That's the kind of professionalism you can count on to help prolong the life of your new purchase for years to come. Purchase your Repair Protection Agreement today! **Some limitations and exclusions apply. For prices and additional information call 1-800-827-6655.** 

#### SEARS INSTALLATION SERVICE

For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. call **1-800-4-MY-HOME®** 

## **UNASSEMBLED PARTS**



## **ASSEMBLY/PRE-OPERATION**

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

#### TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 3/4" wrench (1) Pliers
- (2) 7/16" wrench (1) Utility knife
- (1) Tire pressure gauge

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

- 1. Remove all accessible loose parts and parts boxes from carton.
- 2. Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- 3. Check for any additional loose parts or cartons and remove.

#### BEFORE REMOVING TRACTOR FROM SKID

#### ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

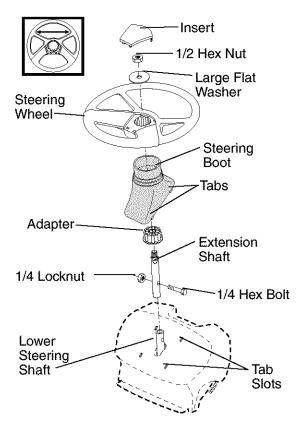
1. Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 1/4 hex bolt and locknut. Tighten securely.

**IMPORTANT:** Tighten bolt and nut securely to 10-12 ft. lbs torque.

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

#### INSTALL STEERING WHEEL

- 3. Position front wheels of the tractor so they are pointing straight forward.
- 4. Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
- 5. Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- 6. Assemble large flat washer, 1/2 hex nut and tighten securely.



- 7. Snap steering wheel insert into center of steering wheel.
- 8. Remove protective materials from tractor hood and grill.

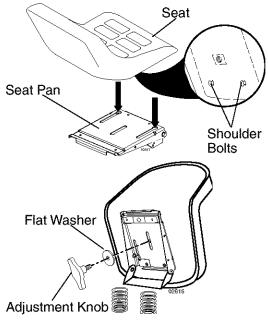
**IMPORTANT:** Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.

#### HOW TO SET UP YOUR TRACTOR INSTALL SEAT

Adjust seat before tightening adjustment knob.

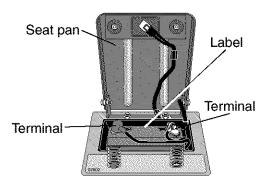
- 1. Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- 2. Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- 3. Place seat on seat pan so head of shoulder bolts are positioned over the large slotted holes in pan.
- Push down on seat to engage shoulder bolts in slots and pull seat towards rear of tractor.

- 5. Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- 6. Lower seat into operating position and sit in seat.
- 7. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- 8. Get off seat without moving its adjusted position.
- 9. Raise seat and tighten adjustment knob securely.



#### **CHECK BATTERY**

1. Lift seat pan to raised position. **NOTE:** If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



**NOTE:** You may now roll or drive your tractor off the skid. Follow the appropriate instruction below to remove the tractor from the skid.

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

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

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

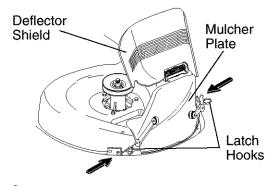
**WARNING:** Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- 1. Be sure all the above assembly steps have been completed.
- 2. 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.
- 4. Place gear shift lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- 6. 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.
- 8. Slowly release clutch/brake pedal and slowly drive tractor off skid.
- 9. Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.

10. Turn ignition key to "STOP" position. Continue with the instructions that follow.

## INSTALL MULCHER PLATE (If previously removed)

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



**CAUTION**: Do not remove deflector shield from mower.

#### TO CONVERT TO BAGGING OR DISCHARGING

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

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

#### **CHECK TIRE PRESSURE**

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

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

#### CHECK DECK LEVELNESS

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

#### CHECK FOR PROPER POSITION OF ALL BELTS

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

#### CHECK BRAKE SYSTEM

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

#### ✓ CHECKLIST

Before you operate and enjoy your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

Please review the following checklist:

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

While learning how to use your tractor, pay extra attention to the following important items:

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

### **OPERATION**

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



STO







FREE WHEEL (Automatic Models only)

Failure to follow instructions could result in serious injury or

death. The safety alert symbol

is used to identify safety inform-

ation about hazards which can

result in death, serious injury

and/or property damage.





NEUTRAL



LOW

HIGH

ENGINE ON



ENGINE START



СНОКЕ

๋©₽

PARKING BRAKE





PARKING BRAKE PARKING BRAKE

MOWER LIFT

UNLOCKED

**IGNITION** 

LIGHT









SLOPE HAZARDS **KEEP AREA CLEAR** (SEE SAFETY RULES SECTION)

SLOW

í٨

LOCKED

MOWER HEIGHT



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



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



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

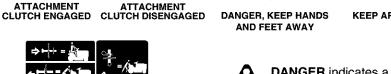
CAUTION when used without the alert symbol, indicates a situation that could result in damage



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



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



to the tractor and/or engine.

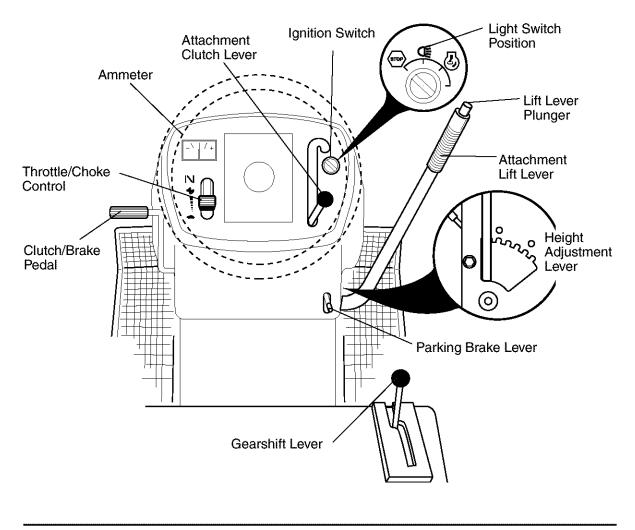


11

#### KNOW YOUR TRACTOR

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

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



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

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

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

raise, lower, and adjust the mower deck or other attachments mounted to your tractor. **CLUTCH/BRAKE PEDAL** - Used for declutching and braking the tractor and starting the engine.

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

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

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

**LIGHT SWITCH POSITION** - Turns the headlights on and off.

**PARKING BRAKE LEVER** - Locks clutch/ brake pedal into the brake position. **THROTTLE/CHOKE CONTROL** - Used for starting and controlling engine speed.

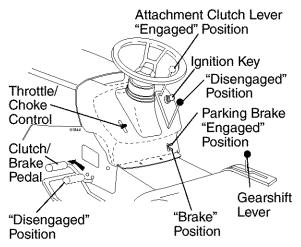


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

#### HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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 all the way down and hold.
- Pull parking brake lever up and release pressure from clutch/brake pedal. Pedal should remain in brake position. Make sure parking brake will hold tractor secure.



#### STOPPING

MOWER BLADES -

- To stop mower blades, move attachment clutch lever to "DISENGAGED" position.
   GROUND DRIVE -
- To stop ground drive, depress clutch/ brake pedal all the way down.
- Move gearshift lever to neutral (N) position.
- ENGINE -

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

 Turn ignition key to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use. **IMPORTANT:** Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go 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 USE THROTTLE CONTROL

Always operate engine at full throttle.

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

#### TO MOVE FORWARD AND BACKWARD

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- 3. 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

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

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

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

• Never use choke to stop engine.

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

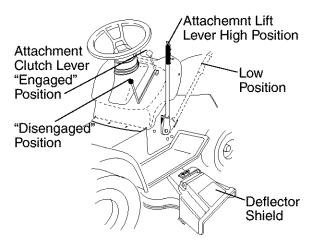
#### TO OPERATE MOWER

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

- 1. Select desired height of cut.
- 2. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

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



#### TO OPERATE ON HILLS

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

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

- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move 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

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

- 1. Check engine oil with tractor on level ground.
- Řemove 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 the oil viscosity chart in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

#### ADD GASOLINE

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

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

**IMPORTANT:** When operating in temperatures below32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

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

#### **TO START ENGINE**

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.

- 1. Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- 2. Place gear shift lever in neutral (N) position.
- 3. Move attachment clutch to disengaged position.

4. Move throttle control to choke position. **NOTE:** Before starting, read the warm and cold starting procedures below.

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

WARM WEATHER STARTING (50° F and above)

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

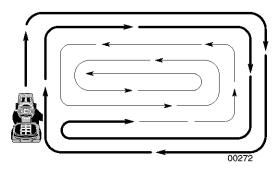
COLD WEATHER STARTING (50° F and below)

- When engine starts, leave throttle control in choke position until engine warms up and begins to run roughly. Once rough running begins, immediately move the throttle control to the fast position. Engine warm-up may take from several seconds to several minutes (the colder the temperature, the longer the warm-up).
- The attachments can also be used during the engine warm-up period.

**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 "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has already been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.

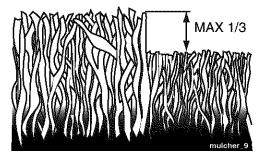


- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower 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, the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades. For extremely heavy grass, 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 (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

### MAINTENANCE

	Check Brake Operation	1	1	ENCHU	ĺ	5 HOURS		NERV P	RS DEASON SEFORE ST	
	Check Tire Pressure	V	1							
т	Check Operator Presence and Interlock Systems	~								
R	Check for Loose Fasteners	1				15		V		
A	Sharpen/Replace Mower Blades			<b>V</b> 3						
U T	Lubrication Chart			1				1		
ò	Check Battery Level			14						
Ř	Clean Battery and Terminals			V				1		
	Check Transaxle Cooling			V						
	Check V-Belts					1				
	Check Engine Oil Level	~	1							
	Change Engine Oil (with oil filter)				V 1,2			V		
Е	Change Engine Oil (without oil filter)			V 1,2				1		
N	Clean Air Filter									
Ģ	Clean Air Screen			1/2						
1	Inspect Muffler/Spark Arrester			1	1					
N E	Replace Oil Filter (If equipped)					1,2				
1	Clean Engine Cooling Fins					1 2				
	Replace Spark Plug					V	1			
	Replace Air Filter Paper Cartridge					1/2				
	Replace Fuel Filter						1			

#### GENERAL RECOMMENDATIONS

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

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

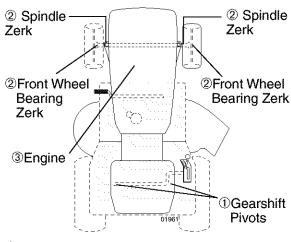
At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

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

#### **BEFORE EACH USE**

- 1. Check engine oil level.
- 2. Check brake operation.
- 3. Check tire pressure.
- 4. Check operator presence and interlock systems for proper operation.
- 5. Check for loose fasteners.

## LUBRICATION CHART



①SAE 30 or 10w30 Motor Oil **2**General Purpose Grease **③Refer to Maintenance "ENGINE" Section** 

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

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### BRAKE OPERATION

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

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

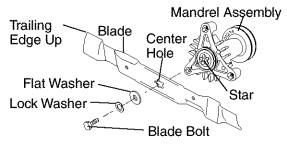
#### **BLADE REMOVAL**

- 1. Raise mower to highest position to allow access to blades.
- 2. Remove blade bolt, lock washer and flat washer securing blade.
- 3. 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.

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

**IMPORTANT**: Blade bolt is heat treated. If bolt needs replacing, replace only with approve bolt shown in the Repair Parts.



#### TO SHARPEN BLADE

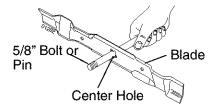
**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while 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.



#### 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.

- 1. Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- 2. Rinse the battery with plain water and dry.
- 3. Clean terminals and battery cable ends with wire brush until bright.
- 4. Coat terminals with grease or petroleum jelly.
- 5. Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND AD-JUSTMENTS section of this manual).

#### TRANSAXLE COOLING

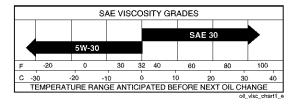
Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

#### **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.

#### ENGINE LUBRICATION

Only use high quality detergent oil rated with API service classification SF-SJ. Select the oil's SAE viscosity grade according to your expected operating temperature.



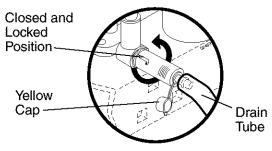
**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, the oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year. Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

#### TO CHANGE ENGINE OIL

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

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- · Catch oil in a suitable container.
- 1. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove yellow cap from end of drain valve and install the drain tube onto the fitting.





- 3. Unlock drain valve by pushing inward slightly and turning counterclockwise.
- 4. To open, pull out on the drain valve.
- 5. After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- 6. Remove the drain tube and replace the cap onto the end of the drain valve.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. For accurate reading, tighten dipstick cap securely onto the tube before removing dipstick. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

#### **ENGINE OIL FILTER**

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

#### **AIR FILTER**

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

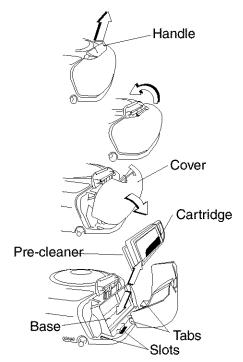
Service air cleaner more often under dusty conditions.

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

**NOTE**: If very dirty or damaged, replace cartridge.

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

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

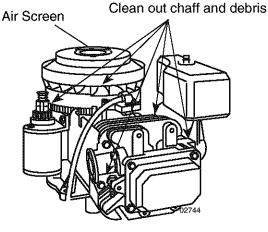


#### CLEAN AIR SCREEN

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

#### ENGINE COOLING SYSTEM

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



#### MUFFLER

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

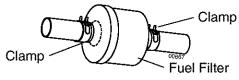
#### SPARK PLUG(S)

Replace spark plug(s) 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**

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

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



#### CLEANING

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

We do not recommend using a garden hose or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.

## SERVICE AND ADJUSTMENTS

## WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

#### TRACTOR TO REMOVE MOWER

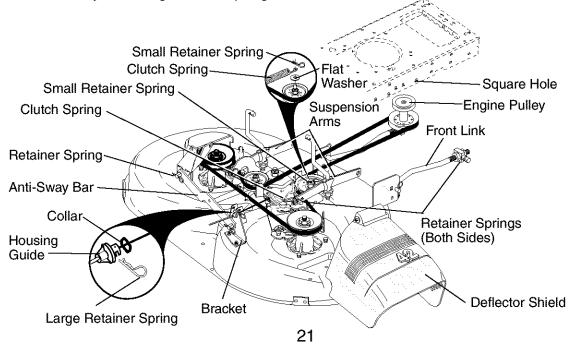
Mower will be easier to remove from the right side of tractor.

- 1. Place attachment clutch in "DISEN-GAGED" position.
- 2. Move attachment lift lever forward to lower mower to its lowest position.
- 3. Roll belt off engine pulley.
- 4. Remove small retainer spring, and remove clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide out of bracket.
- 6. Disconnect anti-sway bar from chassis bracket by removing retainer spring.

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

**IMPORTANT:** If an attachment other than the mower deck is to be mounted on the tractor, remove the front links and hook the clutch spring Into square hole in frame. **TO INSTALL MOWER** 

1. Raise attachment lift lever to its highest position.



- 2. Slide mower under tractor with deflector shield to right side of tractor.
- 3. Lower lift lever to its lowest position.
- Connect front links to mower deck and secure with retainer springs.
- 5. Connect suspension arms to rear deck brackets and secure with retainer springs.
- 6. Connect anti-sway bar to chassis bracket and secure with retainer spring.
- 7. Push clutch cable housing guide into bracket, slide collar onto guide and secure with large retainer spring.
- 8. Place flat washer and clutch spring on idler pulley bolt and secure with small retainer spring.
- 9. Install belt onto engine pulley.

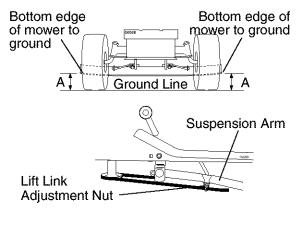
#### TO LEVEL MOWER HOUSING

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

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

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

• Recheck measurements after adjusting.



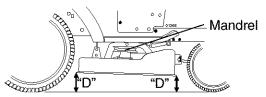
#### FRONT-TO-BACK ADJUSTMENT

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

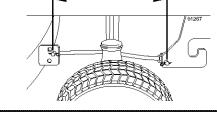
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

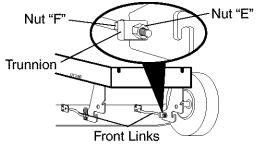
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

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



Both Front Links Should be Equal in Length





## TO REPLACE MOWER BLADE DRIVE BELT

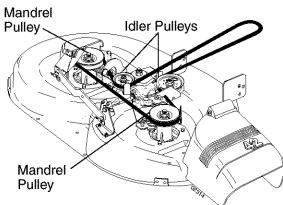
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

**BELT REMOVAL -**

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

#### **BELT INSTALLATION -**

- 1. Work belt around both mandrel pulleys and idler pulleys
- 2. Make sure belt is in all pulley grooves and inside all belt guides.
- 3. Install mower (See "To Install Mower" in this section of this manual).



#### TO CHECK AND ADJUST BRAKE

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

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

#### TO CHECK BRAKE

- 1. Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- 2. Place gear shift lever in neutral (N) position.

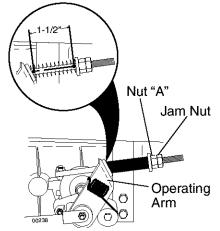
The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

#### TO ADJUST BRAKE

1. Depress clutch/brake pedal all the way down and engage parking brake.

- 2. 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 five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a Sears or other qualified service center.

#### With Parking Brake "Engaged"



#### TO REPLACE MOTION DRIVE BELT

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

**BELT REMOVAL -**

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

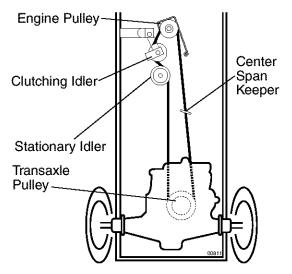
**NOTE:** Observe entire motion drive belt and position of all belt guides and keepers.

- 2. Remove belt from stationary idler and clutching idler.
- 3. Remove belt downward from around engine pulley.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- 5. Remove belt from center span keeper and pull belt away from tractor.

#### **BELT INSTALLATION -**

- 1. Carefully work new belt down between transaxle belt keepers and onto the input pulley.
- 2. Slide belt into the center span keeper.
- 3. Pull belt toward front of tractor and roll around the top groove of engine pulley.
- 4. Install belt through stationary idler and clutching idler.

- 5. Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- 6. Install mower (See "TO INSTALL MOWER" in this section of manual).



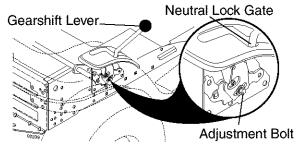
#### TRANSAXLE GEAR SHIFT LEVER NEU-TRAL ADJUSTMENT

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:

1. Make sure transaxle is in neutral (N). **NOTE:** When the tractor rear wheels move freely, the transaxle is in neutral.

- 2. Loosen adjustment bolt in front of the right rear wheel.
- 3. Position the gear shift lever in the neutral (N) position.
- 4. Tighten adjustment bolt securely.

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



#### TO ADJUST STEERING WHEEL ALIGN-MENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble with crossbars horizontal. Tighten securely.

#### 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 a Sears or other qualified service center.

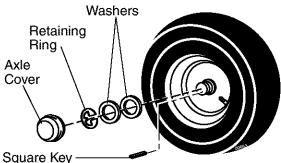
#### TO REMOVE WHEEL FOR REPAIRS

- 1. Block up axle securely.
- 2. Remove axle cover, retaining ring and washers to allow wheel removal (rear wheels have a square key Do not lose).
- 3. Repair tire and reassemble.

**NOTE:** On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.

- 4. Replace washers and snap retaining ring securely in axle groove.
- 5. Replace axle cover.

**NOTE:** To seal tire punctures and prevent flat tires due to slow leaks, purchase and use tire sealant from Sears. Tire sealant also prevents tire dry rot and corrosion.



(Rear Wheel Only)

#### TO START ENGINE WITH A WEAK BAT-TERY

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

If your battery is too weak to start the engine, it should be recharged. (See "BAT-TERY" in the MAINTENANCE section of this manual).

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

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

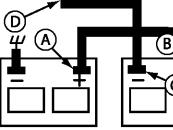
#### TO ATTACH JUMPER CABLES -

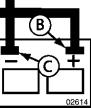
 Connect one end of the RED cable to the POSITIVE (+) terminal of each battery(A-B), taking care not to short against tractor chassis.

- 2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal (C) of fully charged battery.
- 3. Connect the other end of the BLACK cable (D) to good chassis ground. away from fuel tank and battery.

TO REMOVE CABLES. REVERSE **ORDER** -

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





Weak or Dead Battery

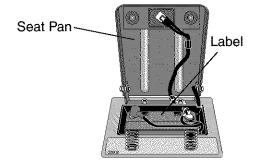
Fully Charged Battery

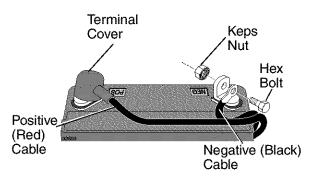
#### **REPLACING BATTERY**

**WARNING:** 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.

- 1. Lift seat pan to raised position.
- 2. Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor.
- 3. Install new battery with terminals in same position as old battery.
- 4. First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely. Slide terminal cover over terminal
- 5. Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.





#### TO REPLACE HEADLIGHT BULB

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

#### INTERLOCKS AND RELAYS

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

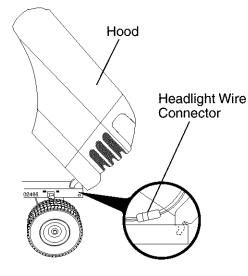
Check wiring. See electrical wiring diagram in the Repair Parts section.

#### TO REPLACE FUSE

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

#### TO REMOVE HOOD AND GRILL AS-SEMBLY

- 1. Raise hood.
- 2. Unsnap headlight wire connector.
- 3. Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- When replacing hood, be sure to reconnect the headlight wire connector.



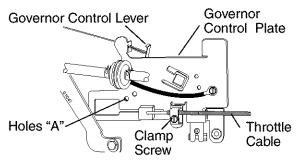
#### ENGINE

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

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:

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



#### TO ADJUST CARBURETOR

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

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

In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture. **IMPORTANT:** Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

**PRELIMINARY SETTING -**

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

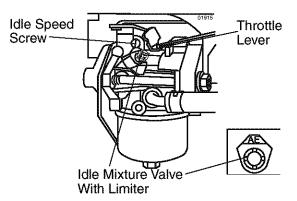
#### FINAL SETTING -

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

#### ACCELERATION TEST -

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

High speed stop is factory adjusted. Do not adjust - damage may result. **IMPORTANT:** 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 a Sears or other qualified service center, which has proper equipment and experience to make any necessary adjustments.



## STORAGE

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

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

#### TRACTOR

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

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

#### BATTERY

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

#### ENGINE

#### **FUEL SYSTEM**

**IMPORTANT**: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also, alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

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

#### ENGINE OIL

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

- 1. Remove spark plug(s).
- 2. Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- 3. Turn ignition key to "START" position for a few seconds to distribute oil.
- 4. 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 CHART:

See appropriate section in manual unless directed to Sears service center

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>Empty fuel tank and carbure- tor, refill tank with fresh gas- oline and replace fuel filter.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service and Adjustments section.</li> <li>Contact a Sears or other qualified service center.</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>Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service and Adjustments section.</li> <li>Contact a Sears or other qualified service center.</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 a Sears or other qualified service center.</li> </ol>
Engine clicks but will not start	<ol> <li>Weak or dead battery.</li> <li>Corroded battery terminals.</li> <li>Loose or damaged wiring.</li> <li>Faulty solenoid or starter.</li> </ol>	<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>

#### TROUBLESHOOTING CHART: See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
Loss of power	<ol> <li>Cutting too much grass/too fast.</li> <li>Throttle in "CHOKE" position.</li> <li>Build-up of grass, leaves and trash under mower.</li> <li>Dirty air filter.</li> <li>Low oil level/dirty oil.</li> <li>Faulty spark plug.</li> <li>Dirty fuel filter.</li> <li>Stale or dirty fuel.</li> <li>Water in fuel.</li> <li>Spark plug wire loose.</li> <li>Dirty/clogged muffler.</li> <li>Loose or damaged wiring.</li> <li>Carburetor out of adjustment.</li> </ol>	<ol> <li>Raise cutting height/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>Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>Empty fuel tank and carbure- tor, refill tank with fresh gas- oline and replace fuel filter.</li> <li>Connect and tighten spark plug wire.</li> <li>Clean/replace muffler.</li> <li>Check all wiring.</li> <li>See "To Adjust Carburetor" in Service and Adjustments section.</li> <li>Contact a Sears or other qualified service center.</li> </ol>
Excessive vibration	<ol> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ol>	<ol> <li>Replace blade. Tighten blade bolt.</li> <li>Contact a Sears or other qualified service center.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ol>
Engine continues to run when operator leaves seat with attach- ment clutch engaged	<ol> <li>Faulty operator-safety presence control system.</li> </ol>	<ol> <li>Check wiring, switches and connections. If not corrected, contact Sears or other qualified service center.</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>Contact a Sears or other qualified service center.</li> <li>Clean around mandrels to open vent holes.</li> </ol>

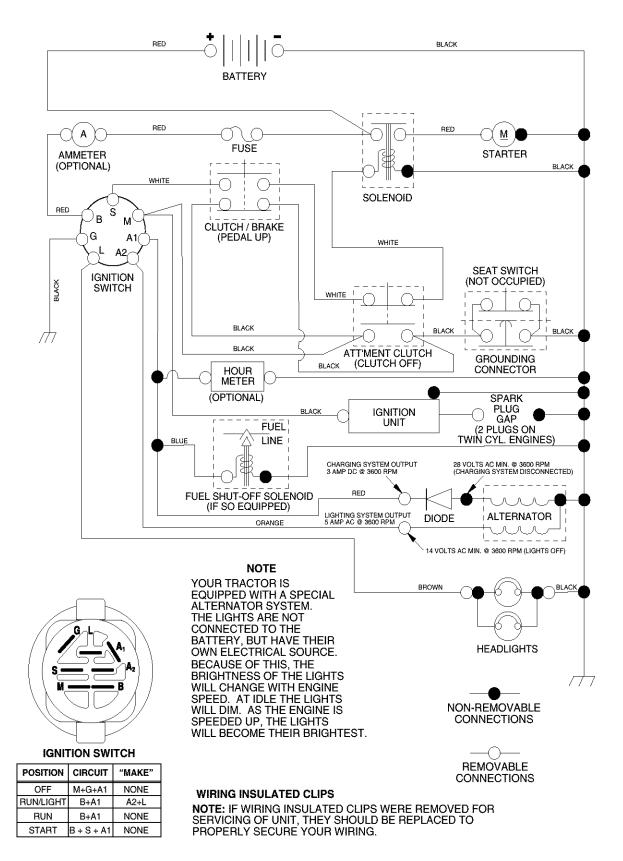
#### TROUBLESHOOTING CHART:

#### See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
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>Contact a Sears or other qualified service center.</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)	<ol> <li>Switch is "OFF".</li> <li>Bulb(s) or lamp(s) burned out.</li> <li>Faulty light switch.</li> <li>Loose or damaged wiring.</li> <li>Blown fuse.</li> </ol>	<ol> <li>Turn switch "ON".</li> <li>Replace bulb(s) or lamp(s).</li> <li>Check/replace light switch.</li> <li>Check wiring and connections.</li> <li>Replace fuse.</li> </ol>
Battery will not charge	<ol> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ol>	<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"	<ol> <li>Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol> <li>Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>

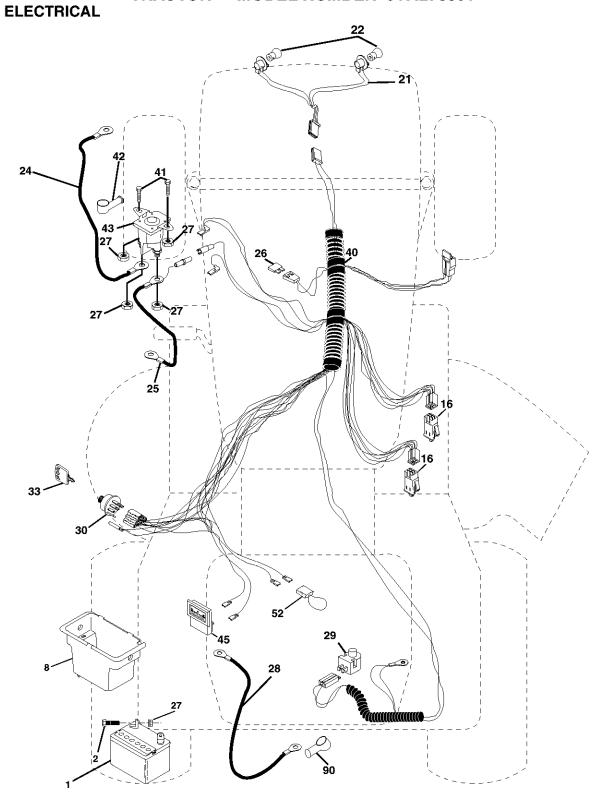
TRACTOR - - MODEL NUMBER 917.273391

SCHEMATIC



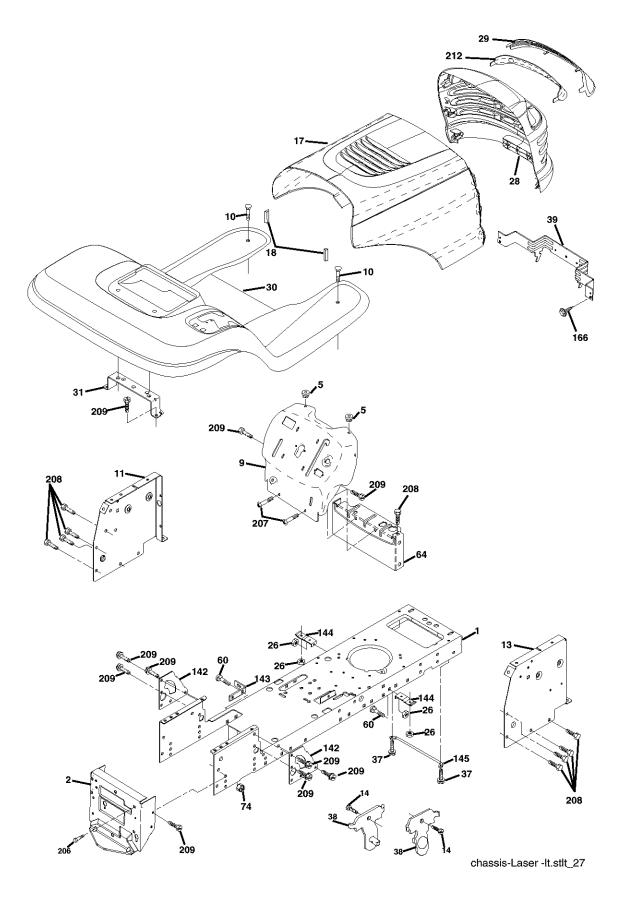
## **REPAIR PARTS**

TRACTOR - - MODEL NUMBER 917.273391



KEY NO.	PART NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt Hex Hd 1/4-20 unc x 3/4
8	176689	Box Battery Fender
16	176138	Switch, Interlock
21	183759	Harness Asm Light W/4152j
22	4152J	Bulb Light #1156
24	4799J	Cable Battery 6 Ga. 11" red
25	146147	Cable Battery 6 Ga. w/16 wire red
26	175158	Fuse 20 AMP
27	73510400	Nut, Keps Hex 1/4-20 unc
28	4207J	Cable Ground 6 Ga. 12" black
29	121305X	Switch Plunger Nc Gray
30	175566	Switch Ign
33	140403	Key Ign Molded Craftsman
40	179720	Harness Ign
41	71110408	Bolt Blk. Fin Hex 1/4-20 unc x 1/2
42	131563	Cover Terminal Red
43	178861	Solenoid
45	121433X	Ammeter Rectangular 6 Amp
52	141940	Protection Wire Loop
90	180499	Cover Battery Terminal
NOTE		ant dimonsions divo in U.S. inches

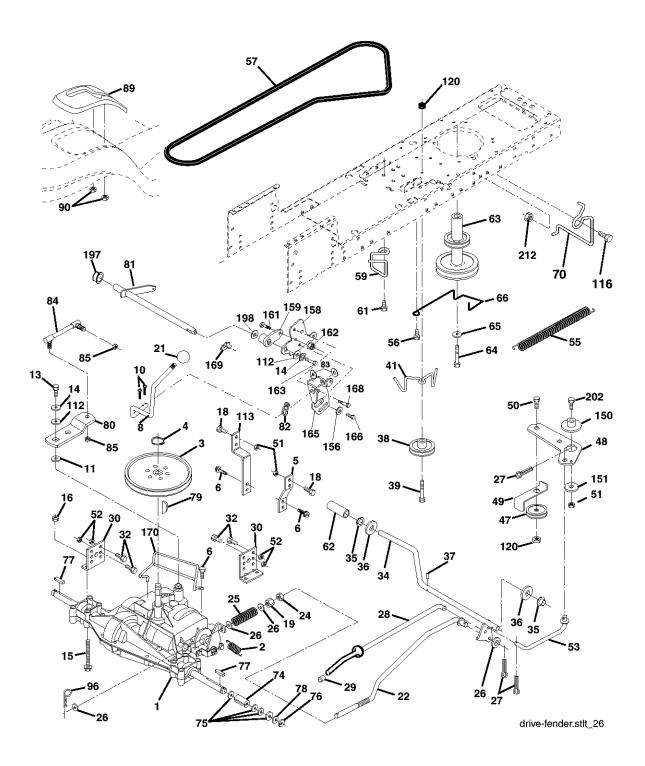
**NOTE:** All component dimensions give in U.S. inches 1 inch = 25.4 mm



#### TRACTOR - - MODEL NUMBER 917.273391 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
NO. 1 2 5 9 10 11 13 14 17 18 29 30 31 37 38 39 54 74 115 142 145 145 145 145 145 145 145 145	NO. 174619 176554 155272 187846X013 STD533710 174996 172105X010 17490608 185682X558 184921 STD541437 190380 174332X599 174738X558 139976 17490508 175710 174714 72140606 154798 73680600 158112 17060620 175702 186689 175582 156524 171875 17065 17670508 17670508 17670608 17000612	Chassis Stamping Drawbar Bumper Hood/Dash Dash Bolt, Carriage 3/8-16 x 1 Panel, Dash, L.H. Panel, Dash, R.H. Screw Thdrol 3/8-16 x 1/2 Hood Assembly Laser Bumper Hood Large 1.75 Nut Grille Lens Asm Laser Lens, Laser Fend/Ftrest Pnt STLT Bracket, Fender Support Screw Thdrol 5/16-18 x 1/2 Tyt Bracket Asm. Pivot Mower Rear Bracket Pivot Laser Bolt Rdhd Sqnk 3/8-16 unc x 3/4 Dash Lower STLT Nut Crownlock 3/8-16 unc x 3/4 Dash Lower STLT Nut Crownlock 3/8-16 unc Keeper Belt Rear LH Screw 3/8-16 x 1-1/4 Plate Reinforcement STLT Bracket Swaybar Chassis Bracket Pnt Footrest STLT Jod Pivot Chassis/Hood Screw Hi-Lo #13-16 x 5/8 Bolt Shoulder 5/16-18 TT Screw Thdrol 5/16-18 x 1/2 TYTT Screw Thdrol 3/8-16 x 1/2
211 212 · -	145212 175143 5479J 187801	Nut Hexflange Lock Insert Lens Reflective Plug, Button Plug Dome

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



### TRACTOR - - MODEL NUMBER 917.273391

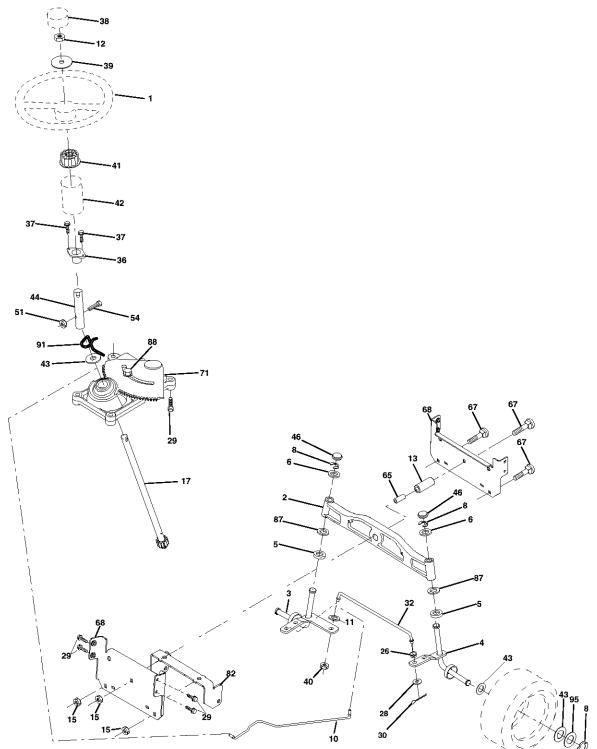
### **GROUND DRIVE**

KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)
2	146682	Dana D4360 Spring Brake Return
3	123666X	Pulley Transaxle
4	12000028	Ring Retainer
5	121520X	Strap Torque 30 Degrees
6	17000512	Screw 5/16-18 x 3/4
8	165866	Rod Shift Fender Adjust
10	STD561210	Pin Cotter 1/8 x 1 CAD
11	105701X	Washer Plate Shift
13	74550412	Bolt 1/4-28unf Gr. 8 W/Patch
14	10040400	Washer Lock Hvy Helical
15	74490544	Bolt Hex FLGHD 5/16-18 Gr. 5
16 18	STD541431 74780616	Nut Lock Hex W/Ins. 5/16-18 unc Bolt Fin Hex 3/8-16 x 1 Gr. 5
19	STD541437	Nut Lock Hex W/Wsh 3/8-16 unc
21	106933X	Knob
22	130804	Rod, Brake
24	73350600	Nut, Hex Jam 3/8-16 unc
25	106888X	Spring, Brake Rod
26	STD551037	Washer 13/32 x 13/16 x 16 Ga.
27	STD561210	Pin Cotter 1/8 x 3/4 CAD.
28	175765	Rod, Parking Brake
29	71673	Cap, Parking Brake
30 32	174973 74760512	Bracket, Transaxle Bolt Hex Hd 5/16-18 unc x 3/4
34	175578	Shaft, Foot Pedal
35	120183X	Bearing, Nylon
36	19211616	Washer
37	1572H	Pin, Roll
38	179114	Pulley, Composite, Flat
39	72110622	Bolt RDHD
44	175550	3/8-16 unc x 2-3/4 Gr. 5
41 47	175556 127783	Keeper, Belt Idler Pulley, Idler, V-Groove
48	154407	Bellcrank, Clutch
49	123205X	Retainer, Belt
50	72110612	Bolt Hex Hd 3/8-16 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
56 57	17060620	Screw 3/8-16 x 1.04 V-Belt
57 59	160855 169691	Keeper, Center Span
61	17120614	Screw . 3/8-16 x .875
÷'		

KEY NO.	PART NO.	DESCRIPTION
62	8883R	Cover, Pedal
63	175410	Pulley, Engine
64 65	173937 STD551143	Bolt Hex 7/16-20 x 4 Gr. 5-1.5 Washer
66	154778	Keeper Belt Engine Hydro
70	134683	Keeper Belt Engine
74	109502X	Spacer
75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
76 77	STD581075	E-Ring
77 78	123583X 121748X	Key, Square Washer 25/32 x 1-5/8 x 16 Ga.
79	2228M	Key Woodruff
80	131488	Arm Shift
81	165594	Shaft Asm Cross Tapered
82	165711	Spring Torsion
83	19171216	Washer 17/32 x 3/4 x 16 Ga. Link Transaxle
84 85	166229 150360	Nut Lock Center 1/4-20
89		Console, Shift
90	124346X	Nut Self-Thd Wsh-hd 1/4 Zinc
96	4497H	Retainer Spring 1" Zinc/Cad
112	19091210	Washer 9/32 x 3/4 x 10 Ga.
113	127285X	Strap Torque 90 Degrees
116 120	72140608 73900600	Bolt Rdhd Sqneck 3/8-16 x 1.25 Nut Lock Flg 3/8-16
150	175456	Spacer Retainer
151	19133210	Washer $13/32 \times 2 \times 10$ Ga.
156	166002	Washer Strted 5/16ID x 1.125
158	165589	Bracket Shift Mount
159	183900	Hub Tapered Flange Shift Lt
161	72140406	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr 5
162 163	73680400 74780416	Nut Crownlock 1/4-20 unc Bolt Hex Fin 1/4-20 unc x 1 Gr 5
165	165623	Bracket Pivot Lever
166	17490510	Screw 5/16-18 x 5/8
168	165492	Bolt Shoulder 5/16-18 x .561
169	165580	Plate Fastening
170	178394	Keeper Belt T/A
197 198	169613	Nyliner Snap-In 5/8"ID Washer Nyl 7/8 ID x .105" Hyd
202	169593 72110614	Bolt Carr Sh 3/8-16 x 1-3/4 Gr.5
212	145212	Nut Hex Fig. Lock

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

## TRACTOR - - MODEL NUMBER 917.273391 STEERING ASSEMBLY



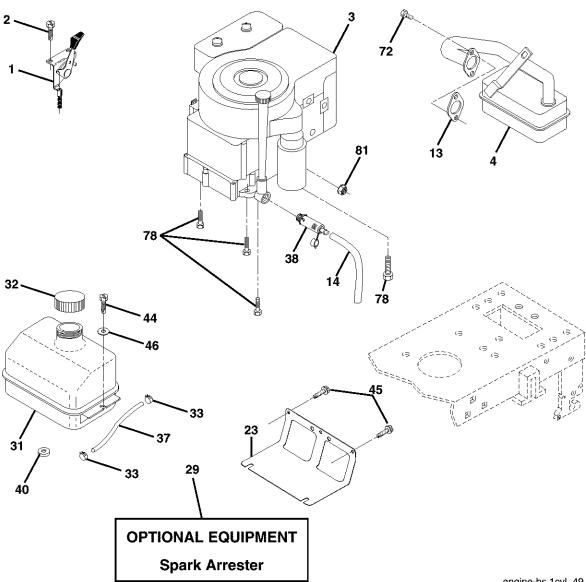
steering\_pl.lt\_47

TRACTOR - - MODEL NUMBER 917.273391 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Steering Wheel
2	184706	Axle Assembly
3	169840	Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8 10	12000029 175121	Ring, Klip
11	STD551137	Draglink Washar Look
12	73940800	Washer, Lock Nut Hex Jam Toplock 1/2-20 unf
13	136518	Spacer Brg Axle Front
15	145212	Nut, Hexflange Lock
17	180641	Shaft Assembly, Steering
26	126847X	Bushing, Link, Drag
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17000612	Screw 3/8-16 x 3/4
30	STD561210	Pin
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw
38	139769	Insert, Steering Wheel
39	19183812	Washer 9/16 x 2-3/8
40	73540600	Nut Crownlock 3/8-24
41	186737	Adaptor, Steering Wheel
42	145054x428	
43 44	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
44 46	180640	Extension Shaft Steering Cap, Spindle Red
40 51	73540400	Nut Crownlock 1/4-28
54	71130420	Bolt Hex 1/4-28 unf x 1-1/4 Gr. 8
65	160367	Spacer Brace Axle
67	72110618	Bolt Rdhd Sqnk 3/8-16 x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm
82	169835	Bracket Susp Chassis Front
87	173966	Washer Flat .781 x 1-1/2 x .14
88	175118	Bolt Shoulder 7/16-20
91	175553	Clip Steering
95	188967	Washer Hardened .793 x 1.637 x .060

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

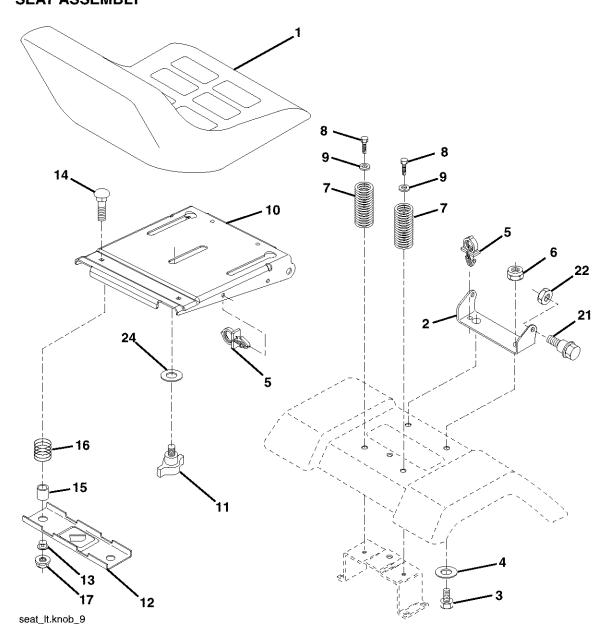
ENGINE



engine-bs.1cyl\_49

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170545	Control, Throttle	37	137040	Line, Fuel
2	17720408	Screw, Hex Head, Thread Cutting	38	181654	Plug, Drain Oil Easy
		1/4-20 x 1/2	40	124028X	Bushing Snap
3		Engine, (See Breakdown) Briggs	44	17670412	Screw, Hex Washer Head, Thd.,
		Model No. 31H777-0297-E1			Roll 1/4-20 x 3/4
4	137352	Muffler	45	17000612	Screw Hex Wsh Thdr 3/8-16 x 3/4
13	165291	Gasket	46	19091416	Washer 9/32 x 7/8 x 16 Ga.
14	148456	Tube Drain Oil Easy	72	183906	Screw Socket Head 5/16-18 x 1
23	169837	Shield Brn/Dbr Guard	78	17060620	Screw 3/8-16 x 1-1/4
29	137180	Arrestor, Spark	81	73510400	Nut Keps Hex 1/4-20 unc
31	184900	Tank, Fuel			•
32	140527	Cap Assembly, Fuel Sears, Vented	NOTE	E: All comport	ent dimensions given in U.S. inches
33	123487X	Clamp, Hose	_	1 inch = 25	.4 mm

TRACTOR - - MODEL NUMBER 917.273391 SEAT ASSEMBLY



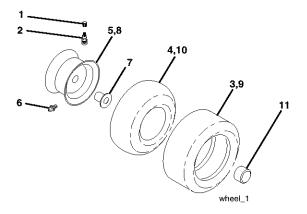
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	188716	Seat	12	121246X	Bracket, Switch Mounting
2	180166	Bracket, Pivot, Seat	13	121248X	Bushing, Snap
3	71110616	Bolt	14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
4	19131610	Washer 13/32 x 1 x 10 Ga.	15	134300	Spacer, Split .28 x .88
5	145006	Clip, Push-In Hinged	16	121250X	Spring
6	STD541437	Nut	17	123976X	Locknut, Flange 1/4 Gr. 5
7	124181X	Spring, Seat	21	171852	Bolt, Shoulder 5/16-18 unc
8	17000616	Screw 3/8-16 x 1-1/2	22	STD541431	Nut
9	19131614	Washer 13/32 x 1 x 14 Ga.	24	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
10	180186	Pan, Seat			
11	166369	Knob Seat	NOTI		ent dimensions given in U.S. h = 25.4 mm

41

DECALS

	°				
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11	156368 189100 184728 184729 190813 133644 184730 172331 184899 156439 179128	Decal, Oper. Instr. Decal, HP Engine Decal, Hood, R.H. Decal, Hood, L.H. Decal, Hood Replacement Decal, Customer Maintenance Decal, Hood Side Decal, Deck Decal, Fender, Craftsman Decal, Fender Danger Decal, Deck "B" 42"	12 13 14 16 20		Decal, V-Belt Drive Schematic Decal, Lower Dash Decal, V-Belt Schematic Decal, Battery Diehard Decal, Battery Dngr/Psn Eng Decal, Lift Handle Pad, Footrest LH STLT Pad, Footrest RH STLT Owner's Manual, English Owner's Manual, Spanish

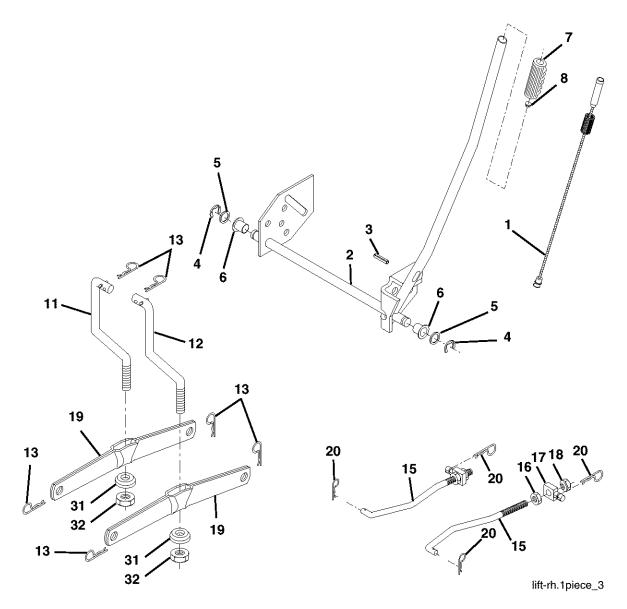
#### WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item Only)
5	106732X624	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel
		Only)
8	106108X624	Rim, Rear
9	106268X	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item Only)
11	104757X428	Cap, Axle
	144334	Sealant, Tire 10 oz.

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



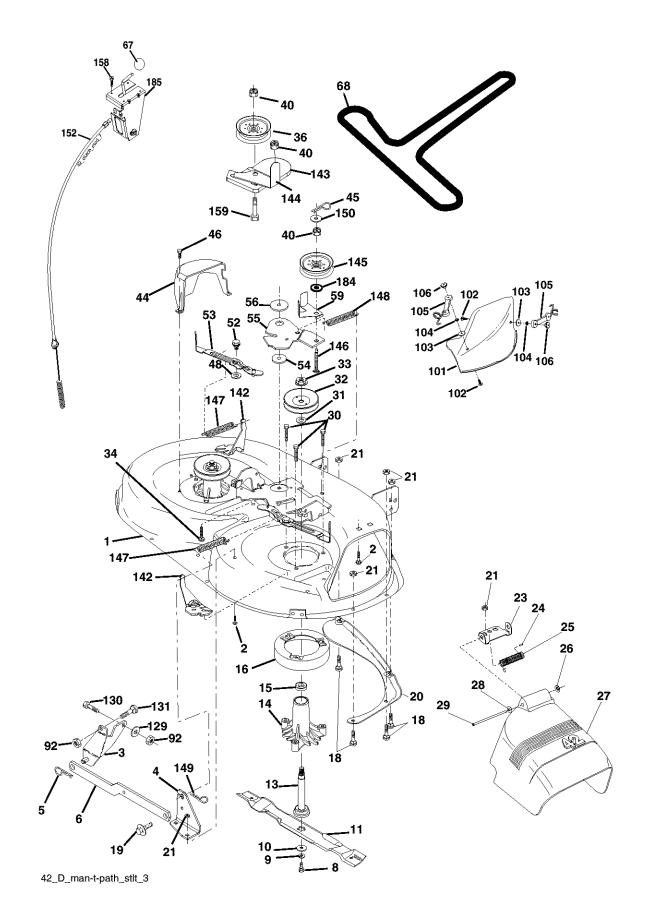


KEY NO.	PART NO.	DESCRIPTION
1	159460	Lift Lever Inner Wire Assembly
2	159471	Shaft Assembly, Lift
3	105767X	Pin, Groove
4	12000002	E-Ring
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing, Nylon
7	125631X	Grip, Handle, Fluted
8	122365X	Button, Plunger, Red
11	139865	Link, Lift, L.H.
12	139866	Link, Lift, R.H.
13	STD624008	Retainer Spring
15	173288	Link, Front

KEY NO.	PART NO.	DESCRIPTION
16	73350800	Nut, Hex, Jam 1/2-13 unc
17	175689	Trunnion
18	73800800	Locknut, Hex, with Washer Insert
		1/2-13 unc
19	139868	Arm, Suspension, Rear
20	163552	Retainer Spring
31	169865	Bearing, Pvt, Lift
32	73540600	Nut, Crownlock 3/8-24

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

**MOWER DECK** 

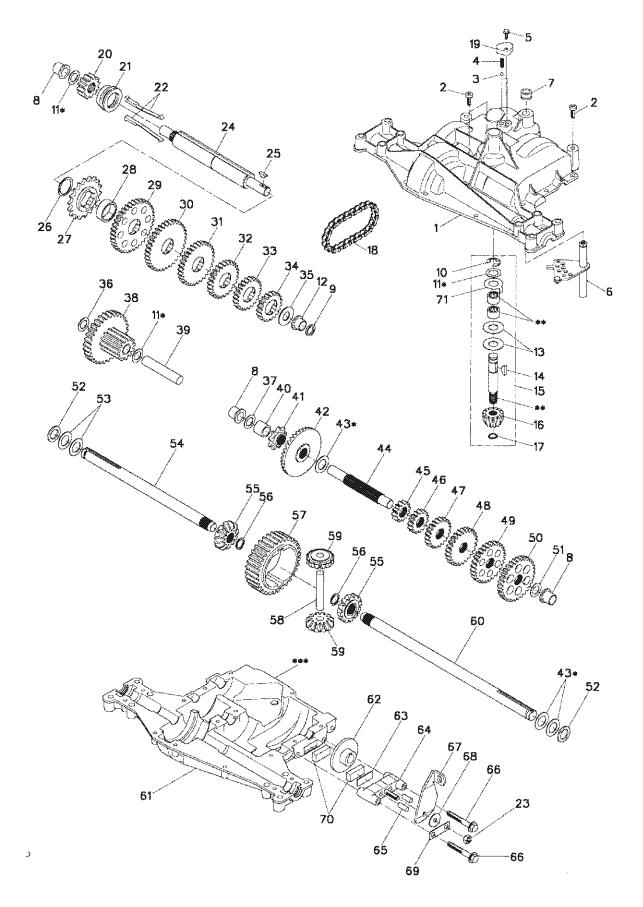


## TRACTOR - - MODEL NUMBER 917.273391

## MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	52	139888	Bolt, Shoulder 5/16-18 unc
2	STD533107	Bolt	53	184907	Arm Assembly, Pad, Brake
3	138017	Bracket Assembly, Sway Bar, Front	54	178515	Washer, Hardened
4	165460	Bracket Sway Bar 38/42" eck	55	155046	Arm, Idler
5	STD624008		56	165723	Spacer, Retainer
6	178024	Bar Sway Deck	59	141043	Guard, TUV Idler
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	67	149846	Knob Custom Oval
9	STD551137	Washer, Lock	68	144959	V-Belt
10	140296	Washer, Hardened	92	73800600	Nut Lock Hex w/Ins. 3/8-16
		(The following blades are avail	101	136420	Mulcher Cover
		able)	102	71081010	Screw Pan Hd Phillips 10-24 x 5/8
11	134149	Blade, Mulching	103	19061216	Washer #10
	400775	(For mulching mowers only)	104	STD551110	
	139775	Blade, 42" Mulching Premium	105	160793	Latch Assembly, Bagger
	100071	(For better wear when mulching)	106	2029J	Nut, Weld
	138971	Blade, 42" Hi-Lift	129	19131312	Washer 13/32 x 13/16 x12 Ga.
40	107045	(For bagging or discharging)	130	STD523710	
13	137645	Shaft Assembly, Mandrel, Vented	131	STD533710	Bolt, Rdhd Sqnk 3/8-16 unc x 1
14	128774	Housing, Mandrel, Vented	142	165890	Arm Spring Brake Mower
15 16	110485X 174493	Bearing, Ball, Mandrel Stripper, Mower Deck	143 144	157109 158634	Bracket Arm Idler 42"
18	72140505	Bolt, Carriage 5/16-18 x 5/8	144	165888	Keeper Belt 42" Clutch Cable
19	132827	Bolt, Shoulder	145	171977	Pulley Idler Flat Bolt Carriage Idler
20	159770	Baffle, Vortex	140	131335	Spring Extension
21	STD541431	Nut Crownlock 5/16-18 unc	148	169022	Spring Return Idler
23	177563	Bracket, Deflector	149	165898	Retainer Spring Yellow Zinc
24	105304X	Cap, Sleeve	150	19091210	Washer 9/32 x 3/4 x 10 Ga.
25	123713X	Spring, Torsion, Deflector	152	169676	Cable Clutch 42 In
26	110452X	Nut, Push	158	17720408	Screw Hex Thd Cut 1/4-20 x 1/2
27		Shield, Deflector	159	72140614	Bolt Rdhd Sqn 3/8-16 unc x 1-3/4
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	184	19131410	Washer 13/32 x 7/8 x 10 Ga.
29	131491	Rod, Hinge	185	188234	Head Assy. Cable Clutch
30	173984	Screw Thdrol DOD PT Hex		130794	Mandrel Assembly (Includes
31	187690	Washer, Spacer			housing, shaft and shaft hardware
32	153535	Pulley, Mandrel			only-pulley not included)
33	178342	Nut, Toplock, Flanged		169583	Replacement Mower, Complete
34	72110912	Bolt Carr. Sh. 3/8-16 x 1-1/2 Gr. 5			(Std. Deck-Order separately
36	131494	Pulley, Idler, Flat			mulcher cover components key
40	73900600	Nut Lock Flg. 3/8-16 unc			nos. 101-106)
44	140088	Guard, Mandrel, L.H.			
45	STD624003	Retainer		- A 13	
46	137729	Screw, Thd. Roll 1/4-20 x 5/8	NOT		ent dimensions given in U.S.inches
48	133944	Washer, Hardened		1  inch = 25.	4 mm

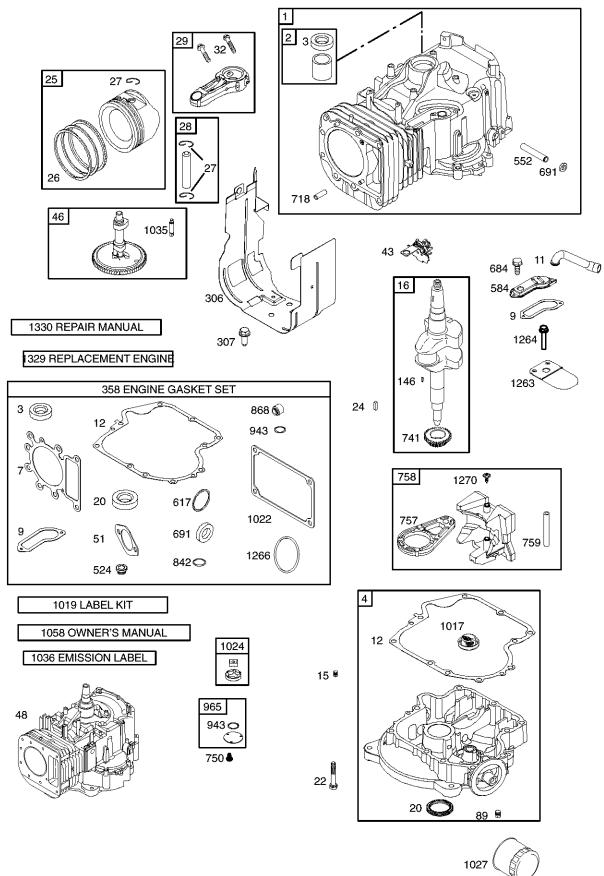
#### TRACTOR - - MODEL NUMBER 917.273391 DANA TRANSAXLE - - MODEL NUMBER D4360

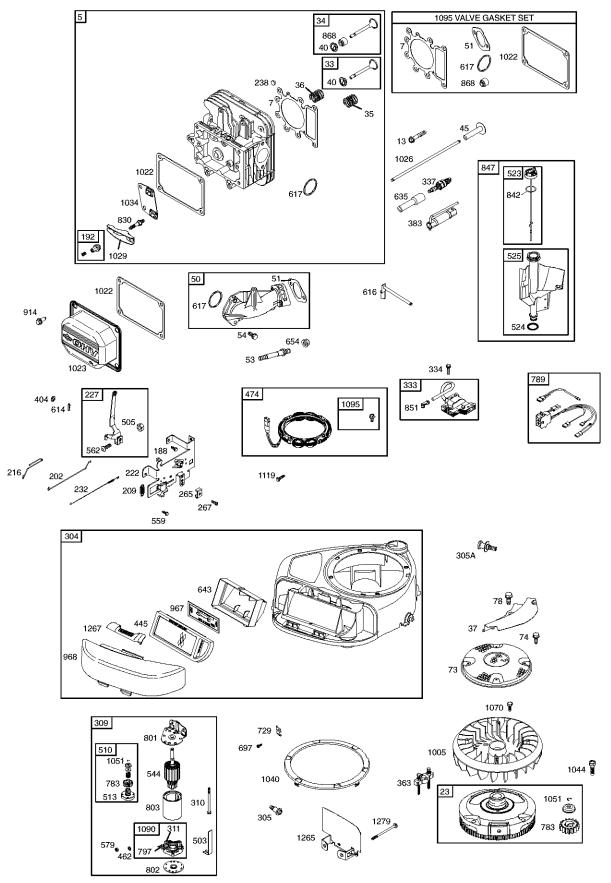


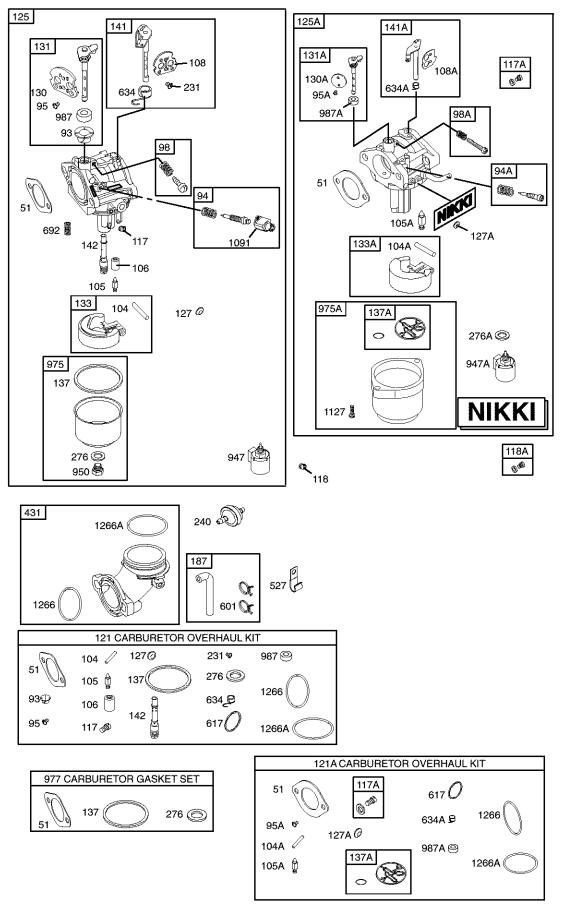
#### TRACTOR - - MODEL NUMBER 917.273391 DANA TRANSAXLE - - MODEL NUMBER D4360

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170981	Housing, Upper	40	120472X	Spacer, .633 X .87 X .755
2	2274J	Screw, Tapping, 1/4-20 X .734	41	105928X	Sprocket, 9T
3	134400	Ball, Detent	42	170988	Gear, Bevel, 36T
4	105904X	Spring, Detent	43	134394	* Assy, Kit, Shim, .750 Shaft
5	160940	Screw, Tapping, No. 10-24 X	44	120473X	Shaft, Drive
		.482	45	142678	Gear, Spur, 12T
6	138235	Assy, Kit, Shifter	46	143697	Gear, Spur, 15T
7	108727X	V-Ring	47	124641X	Gear, Spur, 20T
8	148266	Bearing, Flange	48	106589X	Gear, Spur, 25T
9	148269	Seal, Oil	49	120408X	Gear, Spur, 28T
10	2225J	Ring, Retaining	50	105937X	Gear, Spur, 31T
11		* Assy, Kit, Shim, .625 Shaft	51	2226J	Washer, Plain, .632 X 1.00 X
12	148268	Bearing, Flange			.060
13	120415X	Washer, Plain, .632 X 1.38 X	52	134401	Washer, Neoprene
		.046	53	2264J	Washer, Plain, .758 X 1.25 X
14	142674	Key, Woodruff, No. 9			.031
15	170983	Assy, Kit, Input Shaft	54	160946	Axle, LH
16	170986	Pinion, Bevel, 12T	55	170990	Gear, Miter, 1 2T, Splined
17	105909X	Ring, Retaining	56	160948	Ring, Retaining
18	105910X	Chain, 24 Pitches	57	110071X	Gear, Spur, 32T
19	160942	Cover, Detent	58	120952X	Shaft, Cross
20	160943	Gear, Spur, 1 2T	59	170991	Gear, Miter, 1 2T, Idler
21	148267	Collar, Clutch	60	160950	Axle, RH
22	138236	Assy, Kit, Clutch Keys	61	170992	Housing, Lower
23	73810500	Nut, Lock, 5/16-24	62	7294J	Disc, Brake
24	142676	Shaft, Intermediate	63	108989X	Spacer, Brake Puck
25	2244J	Key, Woodruff, No. 61	64	160952	Jaw, Brake
26	105916X	Ring, Retaining	65	120954X	Pin, Dowel
27	12047OX	Sprocket, 1 8T	66	160953	Screw, Tapping, 5/16-18 X 2.35
28	110070X	Spacer, 1. 131 X 1.45 X .494	67	138244	Lever, Actuating
29	142677	Gear, Spur, 37T	68	108996X	Washer, Plain, .321 X 1.00 X
30	142681	Gear, Spur, 35T			.055
31	124644X	Gear, Spur, 30T	69	160954	Bracket, Anti-Rotation
32	108980X	Gear, Spur, 25T	70	120951X	Puck, Friction
33	120406X	Gear, Spur, 22T	71	174256	Washer, Anti Rotation
34	134796	Gear, Spur, 19T	72	120416X	Grease
35	105925X	Washer, Plain, .640 X 1.37 X			
		.061			ent dimensions given in U.S. inches
36	2228J	Washer, Plain, .632 X 1.00 X	1 inch	i = 25.4 mm	
07	470007	.046	*		
37	170987	Washer, Plain, .632 X 1.00 X	~		us combinations to maintain proper
~~	171055	.031		clearances.	
38	174255	Assy, Gear, Comb., 12T & 30T	**	Output 1	- 45
39	124639X	Shaft, Idler	~ ~	Order Key N	0. 15.

<sup>\*\*\*</sup> Silicone Sealant to be applied between Upper and Lower Housings (use Loctite Ultra Gray Silicone 5699 or equivalent).







KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
1 2 3 4	697174 399265 391086 • 697188	Cylinder Assembly Kit-Bushing/Seal (Magneto Side) Seal-Oil (Magneto Side) Sump-Engine	106 108 108A 117	690577 690464 695419 694352		Seat-Inlet Valve-Choke (Manual Choke) Valve-Choke (Nikki) Jet-Main (Standard)
5 7	698147 699168 •+	Head-Cylinder Gasket-Cylinder Head	117A 118	699457 697228		Jet-Main (Standard) Jet-Main (Standard) (Nikki) Jet-Main (High Altitude)
9 11	697109 • 697113	Gasket-Breather Tube-Breather	118A 121	699458 697241		Jet-Main (High Altitude) (Nikki) Kit-Carburetor Overhaul
12	697110 ·	Gasket-Crankcase	121A	699521		Kit-Carburetor Overhaul (Nikki)
13 15	690360 690946	Screw (Cylinder Head) Plug-Oil Drain	125 125A	698445		Carburetor Carburetor (For Complete
16 20	697127 690947 •	Crankshaft Seal-Oil (PTO Side)				Carburetor, Service with 698445)
22 23	692125 693557	Screw (Crankcase Cover/Sump) Flywheel	127 127A	695005 690727	ø	Plug-Welch Plug-Welch (Nikki)
24	222698	Key-Flywheel	130	691750	U	Valve-Throttle
25 	699052 699054	Piston Assembly (Standard) Piston Assembly (.020"	130A 131	699500 494379		Valve-Throttle (Nikki) Kit-Throttle Shaft
26	699051	Oversize) Ring Set (Standard)	131A 133	699501 494381		Kit-Throttle Shaft (Nikki) Float-Carburetor
 27	697559 698469	Ring Set (.020" Oversize) Lock-Piston Pin	133A 135	694914 698780		Float-Carburetor (Nikki) Tube-Fuel Transfer
28 29	697099 697126	Pin-Piston Rod-Connecting (Standard)	137 137A	281165 698781		Gasket-Float Bowl Gasket-Float Bowl (Nikki)
	697263	Rod-Connecting (.020"	141	495097	Ũ	Kit-Choke Shaft (Manual Choke)
32	692852	Undersize) Screw (Connecting Rod)	141A 142	698778 697140	Ø	Kit-Choke Shaft (Nikki) Nozzle-Carburetor
33 34	695760 695761	Valve-Exhaust Valve-Intake	146 187	691639 697098		Key-Timing Line-Fuel
35 36	691279 691279	Spring-Valve (Intake) Spring-Valve (Exhaust)	188 192	691693 691986		Screw (Control Bracket) Adjuster-Rocker Arm
37	697108	Guard-Flywheel	202	691841		Link-Mechanical Governor
40 43	691752 691968	Retainer-Valve Slinger-Governor/Oil	209 216	692208 691840		Spring-Governor Link-Choke
45 46	690564 698492	Tappet-Valve Camshaft	222 227	694042 691374		Bracket-Control Lever-Governor Control
48 50	697762 690193	Short Block Manifold-Intake	231 232	691636 691842		Screw (Choke Valve) Spring-Governor
51 53		+ Gasket-Intake Stud (Carburetor)	238 240	691843 394358		Cap-Valve Filter-Fuel
54	691148	Screw (Intake Manifold)	265	691024		Clamp-Casing
73 74	697133 697897	Screen-Rotating Screw (Rotating Screen)	267 276	695134 692255	؇	Screw (Casing Clamp) Washer-Sealing
78 89	691003 690283	Screw (Flywheel Guard) Plug-Oil	276A 304	695410 697783		Washer-Sealing Housing-Blower
93 94	690602 Ø 498030	Bushing-Throttle Shaft Kit-Idle Mixture	305 305A	697102 697103		Screw (Blower Housing) Screw (Blower Housing)
94A 95	695425 691636	Kit-Idle Mixture (Nikki) Screw (Throttle Valve)	306 307	697107 691003		Shield-Cylinder Screw (Cylinder Shield)
95A	690718 Ø	Screw (Throttle Valve (Nikki)			in 5-	
98 98A	495800 695408	Kit-Idle Speed Kit-Idle Speed (Nikki)	ø	Included		ngine Gasket Set, Key. No. 358 arburetor Overhaul Kit, Key. No.
104 104A	694918 Ø	) Pin-Float Hinge ) Pin-Float Hinge (Nikki)	‡		in C	arburetor Gasket Set, Key. No.
105 105A		<ul> <li>Valve-Float Needle</li> <li>Valve-Float Needle (Nikki)</li> </ul>	÷	977 Included	in Va	alve Gasket Set, Key. No. 1095
			NOTE		000	nt dimensions given in LLS inches

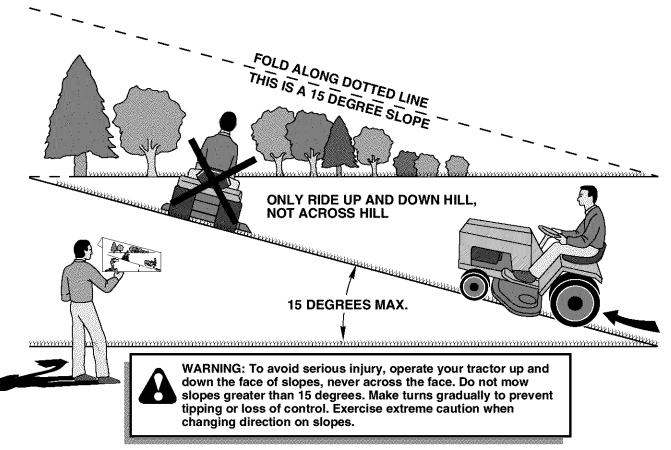
**NOTE:** All component dimensions given in U.S. inches 1 inch = 25.4 mm

				-			
KEY NO.	PART NO.		DESCRIPTION	KEY NO.	PART NO.		DESCRIPTION
309	693551		Motor-Starter	868	690968	•	Seal-Valve
310	690323		Bolt (Starter Motor)	914	690960	- T	Screw (Rocker Cover)
311	497608		Brush Set	943	690589	•	Seal-O Ring (Oil Pump Cover)
				943 947	694393	•	Solenoid-Fuel
333	495859		Armature-Magneto	947 947A			
334	691061		Screw (Magneto Armature)		695423		Solenoid-Fuel (Nikki)
337	691043		Plug-Spark	950 965	691657		Screw (Float Bowl)
358	697191		Gasket Set-Engine	965	499613		Cover-Oil Pump
363	19203		Flywheel Puller	967	697015		Filter-Pre Cleaner
383	89838		Wrench-Spark Plug	968	697446		Cover-Air Cleaner
404	691691		Washer (Governor Crank)	975	495933		Bowl-Float
431	697122		Elbow-Intake	975A	699502		Bowl-Float (Nikki)
445	697634		Filter-Air Cleaner Cartridge	977	690192	~	Gasket Set-Carburetor
462	691261		Washer (Starter Cable)	987	691326		Seal-Throttle Shaft
474	696459		Alternator	987A	698777	Ø	Seal-Throttle Shaft (Nikki)
503	691532		Strap-Starter	1005	697111		Fan-Flywheel
505	691251		Nut (Governor Control Lever)	1017	690770		Screen-Oil Pump
510	693699		Drive-Starter	1019	698814		Kit-Label
513	692024		Clutch-Drive	1022	272475	•+	Gasket-Rocker Cover
523	697086		Dipstick	1023	692492		Cover-Rocker Arm
524	691032		Seal-Dipstick Tube	1024	499054		Pump-Oil
525	697184		Tube-Dipstick	1026	692003		Rod-Push (Intake)
527	698467		Clamp-Tube		692011		Rod-Push (Exhaust)
544	692034		Starter-Armature	1027	492932		Filter-Oil
552	697144		Bushing-Governor Crank	1029	691751		Arm-Rocker
559	693675		Screw (Remote Choke Stop)	1034	690822		Guide-Push Rod
562	691119		Bolt (Governor Control Lever)	1035	693784		Shaft-Pump
579	691029		Nut (Starter Cable)	1036	695700		Label-Emission
584	697112		Cover-Breather Passage	1040	698368		Plate-Trim
601	95162		Clamp-Hose	1044	698139		Screw (Flywheel)
614	691620		Pin-Cotter	1051	691265		Ring-Retaining
616	692012		Crank-Governor	1058	275038		Owner's Manual
617	692138	Ø٠	Seal-O Ring (Intake Manifold)	1059	698516		Kit-Screw/Washer
634	690801			1070	690372		Screw (Flywheel Fan)
004	000001	~	Choke)	1090	691293		Retainer-Brush
634A	698779	Ø	Spring/Seal Assembly (Nikki)	1091	691333		Cap-Limiter
635	691909	Ú.	Boot-Spark Plug	1095	690190		Gasket Set-Valve
643	697417		Retainer-Air Filter	1119	691183		Screw (Alternator)
654	690958		Nut (Carburetor)	1127	695407		Screw-Float Bowl
684	697157		Screw (Breather Passage Cover)	1263	697124		Reed-Breather
691			Seal-Governor Shaft	1264	697104		Screw (Breather Reed)
	692407	•		1265	697125		Support-Blower Housing
692 607	690572		Spring-Detent	1266	691917	•7	Seal-O Ring (Intake Elbow)
697	690372		Screw (Drive Cap)		697123		Seal-O Ring (Intake Elbow)
718	690959		Pin-Locating			Ø	Latch-Blower Housing
729	691224		Clip-Wire	1267 1270	697662 697156		Plug-AVS Counterweight
741	697128		Gear-Timing				
750	691033		Screw (Oil Pump Cover)	1279	690960	000	Screw (Blower Housing Support)
757	697607		Link-Counterweight	1329		1202	Replacement Engine
758	697134		Counterweight	1330	272147		Repair Manual
759	697392		Pin-Counterweight				
783	693713		Gear-Pinion	•			ngine Gasket Set, Key. No. 358
789	698329		Harness-Wiring	Ø		in Ci	arburetor Overhaul Kit, Key. No.
797	693167		Nut (Brush Retainer)		121		
801	691283		Cap-Drive	‡		in Ci	arburetor Gasket Set, Key. No.
802	691286		Cap-End		977		
803	693757		Housing-Starter	+	Included	in Va	alve Gasket Set, Key. No. 1095
830	691095		Stud (Rocker Arm)				
842	691031	٠	Seal-O Ring (Dipstick Tube)	NOTE:			nt dimensions given in U.S. inches
847	697611		Dipstick/Tube Assembly		1 inch = $2$	25.4	mm
851	692424		Terminal-Spark Plug				

# SERVICE NOTES

# SERVICE NOTES

## SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

# Get it fixed, at your home or ours!

## Your Home

For repair – **in your home** – of **all** major brand appliances, lawn and garden equipment, or heating and cooling systems, **no matter who made it, no matter who sold it!** 

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself.

For Sears professional installation of home appliances and items like garage door openers and water heaters.

> 1-800-4-MY-HOME<sup>®</sup> (1-800-469-4663) www.sears.com

Anytime, day or night (U.S.A. and Canada) www.sears.ca

## Our Home

For repair of carry-in products like vacuums, lawn equipment, and electronics, call or go on-line for the nearest Sears Parts and Repair Center.

1-800-488-1222 Anytime, day or night (U.S.A. only) www.sears.com

To purchase a protection agreement (U.S.A.) or maintenance agreement (Canada) on a product serviced by Sears: **1-800-827-6655** (U.S.A.) **1-800-361-6665** (Canada)

Para pedir servicio de reparación a domicilio, y para ordenar piezas: **1-888-SU-HOGAR**<sup>SM</sup> (1-888-784-6427) Au Canada pour service en français:

**1-800-LE-FOYER**<sup>MC</sup> (1-800-533-6937) www.sears.ca



© Sears, Roebuck and Co.

® Registered Trademark / <sup>TM</sup> Trademark / <sup>SM</sup> Service Mark of Sears, Roebuck and Co.
 ® Marca Registrada / <sup>TM</sup> Marca de Fábrica / <sup>SM</sup> Marca de Servicio de Sears, Roebuck and Co.
 <sup>MC</sup> Marque de commerce / <sup>MD</sup> Marque déposée de Sears, Roebuck and Co.

Printed in U.S.A.