

Owner's Manual



GARDEN TRACTOR

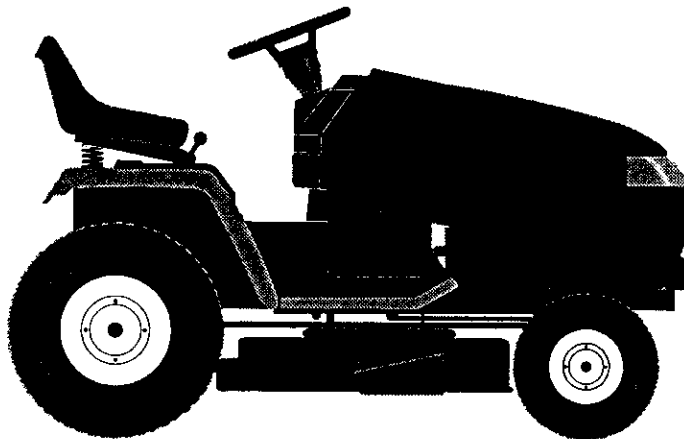
22.0 HP, 46" Mower

Electric Start

Automatic Transmission

Model No.

917.274980



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

CAUTION:

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

For answers to your questions about this product, Call:

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

Visit our Craftsman website: www.sears.com/craftsman

TABLE OF CONTENTS

Warranty	2	Maintenance	16
Safety Rules	3	Service and Adjustments	20
Product Specifications	6	Storage	27
Assembly/Pre-Operation	7	Troubleshooting	28
Operation	9	Repair Parts	30
Maintenance Schedule	16	Sears Service	Back 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.


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

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

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

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

 **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 build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

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:	5 Gallons Unleaded Regular
Oil Type (API-SF-SJ):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
Oil Capacity:	4.0 Pints
Spark Plug: (Gap: .030")	Champion RC12YC
Ground Speed (MPH):	Forward: 5.8 Reverse: 2.1
Tire Pressure:	Front: 14 PSI Rear: 10 PSI
Charging System:	16 Amps @ 3600 RPM
Battery:	Amp/Hr: 35 Min. CCA: 280 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".

REPAIR AGREEMENT

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

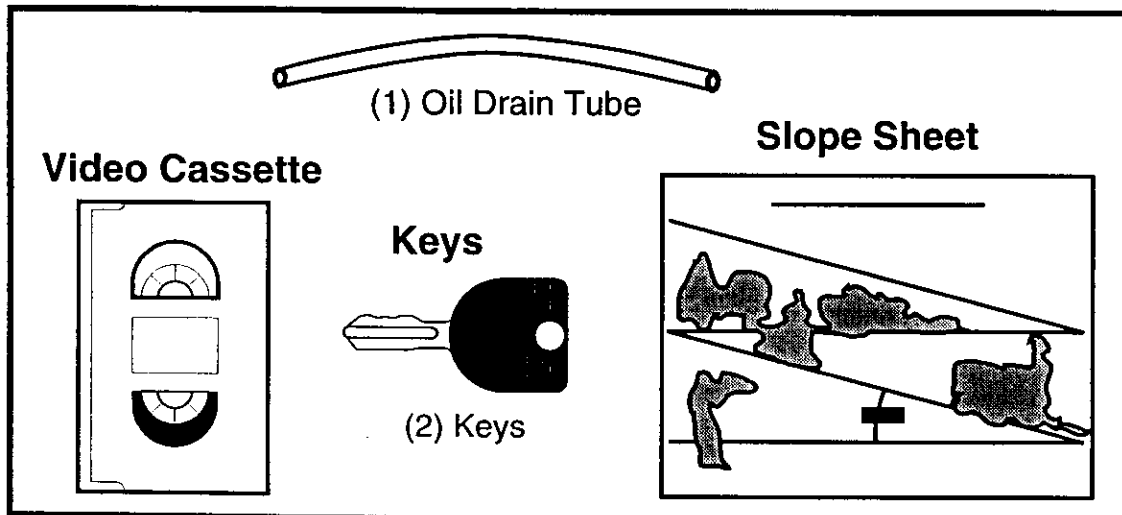
CUSTOMER RESPONSIBILITIES

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

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

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

PARTS BAG CONTENTS



ASSEMBLY/PRE-OPERATION

Your new tractor has been assembled at the factory. Review the video cassette before you begin.

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

TO REMOVE TRACTOR FROM CARTON

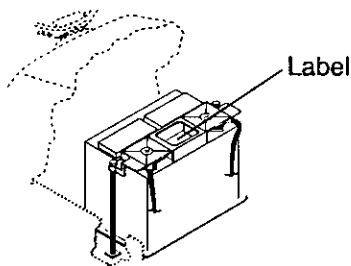
UNPACK CARTON

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

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

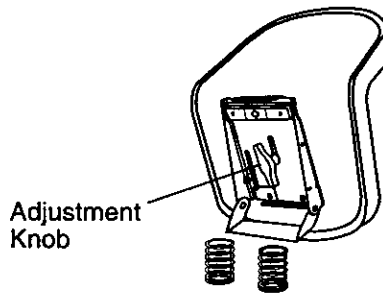
CHECK BATTERY

1. Lift hood 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).



ADJUST SEAT

1. Raise seat and loosen adjustment knobs.
2. Lower seat into operating position and sit in seat.
3. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
4. Get off seat without moving its adjusted position.
5. Raise seat and tighten adjustment knob securely.



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

TO ROLL TRACTOR OFF SKID (See Operation section 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 brake pedal.
3. Place freewheel control in disengaged position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
4. Roll tractor forward off skid.

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.
3. Place freewheel control in "transmission engaged" position (see "TO TRANSPORT" in Operation section of this manual).
4. Sit on seat in operating position, depress brake pedal and set the parking brake.
5. 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.
7. Release parking brake.
8. Slowly move the motion control lever forward and slowly drive tractor off skid.
9. Apply brake to stop tractor and set parking brake.
10. Turn ignition key to "STOP" position. Continue with the instructions that follow.

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

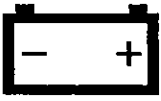
Before you operate your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

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.
 - ✓ Before driving tractor, be sure free-wheel control is in "transmission engaged" position (see "TO TRANSPORT" in the Operation section of this manual).
- While learning how to use your tractor, pay extra attention to the following important items:
- ✓ Engine oil is at proper level.
 - ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
 - ✓ Become familiar with all controls, their location and function. Operate them before you start the engine.
 - ✓ Be sure brake system is in safe operating condition.
 - ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



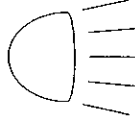
ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



MOWER LIFT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED

R

REVERSE

N

NEUTRAL

H

HIGH

L

LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR

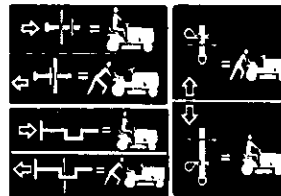


SLOPE HAZARDS

(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY

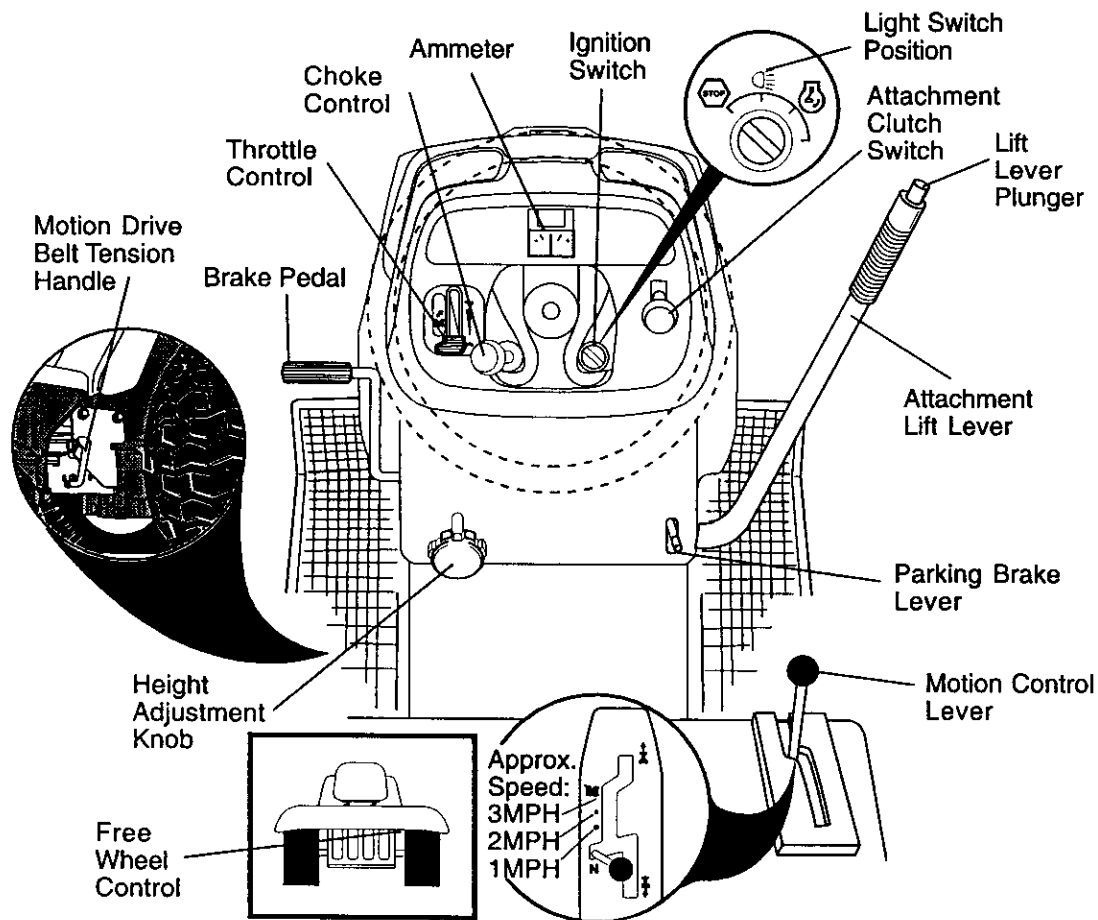


FREE WHEEL
(Automatic Models only)

KNOW YOUR TRACTOR

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

Compare the illustrations with your tractor to familiarize yourself with the locations of



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

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

LIGHT SWITCH POSITION- Turns the headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

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

CHOKE CONTROL - Used when starting a cold engine.

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

IGNITION SWITCH - Used for starting and stopping the engine.

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

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

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

PARKING BRAKE LEVER - Locks brake pedal into the brake position.

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

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

MOTION DRIVE BELT TENSION HANDLE-Used when changing motion drive belt and, if necessary, starting engine under extremely cold conditions.

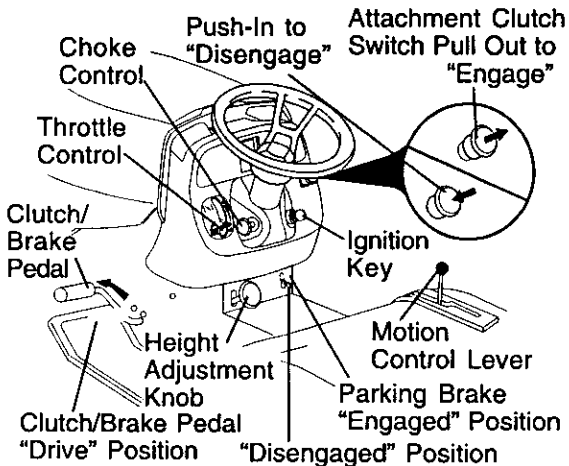


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask worn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

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.

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



- Turn ignition key to "STOP" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.

- Never use choke to stop engine.

IMPORTANT: Leaving the ignition switch in any position other than "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 mower performance.

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD

CAUTION: Do not attempt to operate motion control lever when the parking brake is set or when the brake pedal is depressed. Doing so may result in misadjustment to the drive control system. The direction and speed of movement is controlled by the motion control lever.

1. Start tractor with motion control lever in neutral (N) position.
2. Release parking brake.
3. Slowly move motion control lever to desired position.

TO ADJUST MOWER CUTTING HEIGHT

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

STOPPING

MOWER BLADES -

- To stop mower blades, push attachment clutch switch in to disengaged position.

GROUND DRIVE -

- To stop ground drive, depress brake pedal all the way down.

IMPORTANT: The motion control lever returns to neutral (N) position when the brake pedal is fully depressed.

ENGINE -

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

- Turn knob clockwise (↻) to raise cutting height.
- Turn knob counterclockwise (↺) to lower cutting height.

The cutting height range is approximately 1-1/2" to 4-1/2". The heights are measured from the ground to the blade tip with the engine not running.

These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

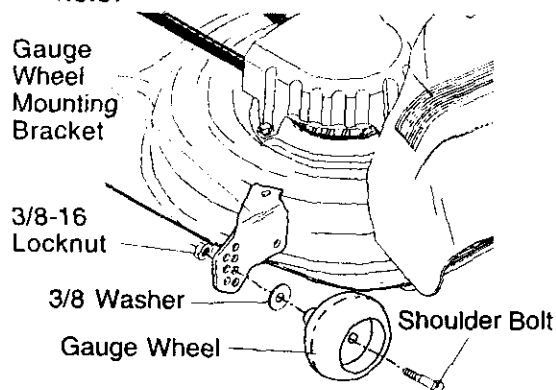
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

TO ADJUST GAUGE WHEELS

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

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

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



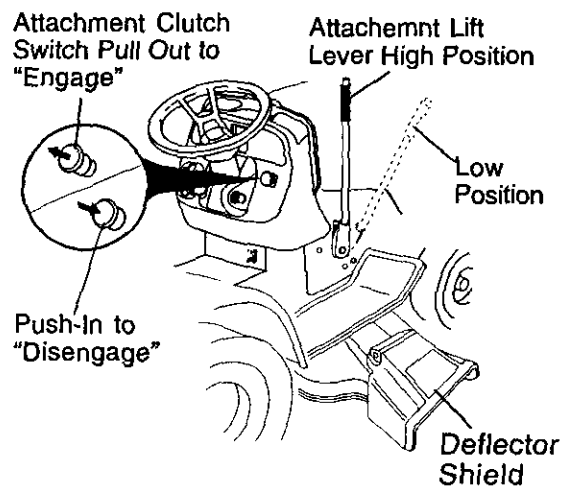
TO OPERATE MOWER

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.

1. Select desired height of cut.
2. Lower mower with attachment lift control.
3. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

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



TO OPERATE ON HILLS

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, push brake pedal quickly to brake position and engage parking brake.

IMPORTANT: The motion control lever returns to neutral (N) position when the brake pedal is depressed.

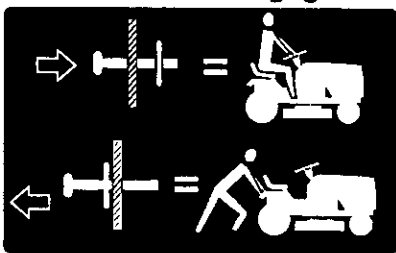
- To restart movement, slowly release parking brake and brake pedal.
- Slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

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

1. Raise attachment lift to highest position with attachment lift control.
 2. Pull freewheel control out and down into the slot and release so it is held in the disengaged position.
- Do not push or tow tractor at more than two (2) MPH.
 - To re-engage transmission, reverse above procedure.

Transmission Engaged



Transmission Disengaged

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

TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL

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

1. Check engine oil with tractor on level ground.
2. Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.

- For cold weather operation you should change oil for easier starting (See 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 tank 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 below 32°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. Be sure freewheel control is in the transmission engaged position.
2. Sit on seat in operating position, depress brake pedal and set parking brake.
3. Move attachment clutch to disengaged position.
4. Move throttle control to fast position
5. Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

NOTE: In extreme cold conditions, if engine will not start you may need to disengage the motion drive belt as follows:

1. Be sure parking brake is engaged.
2. Remove retainer spring from the drive belt tension handle to relieve belt tension.
3. Start engine and allow it to warm up for three (3) minutes.
4. Shut-off engine and engage parking brake.
5. Engage drive belt tension handle and replace the retainer spring.

AUTOMATIC TRANSMISSION WARM UP

Before driving the unit in cold weather, the transmission should be warmed up as follows:

1. Be sure the tractor is on level ground.
 2. Place the motion control lever in neutral. Release the parking brake and let the brake slowly return to operating position.
 3. Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out slightly.

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

PURGE TRANSMISSION

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

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

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

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

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

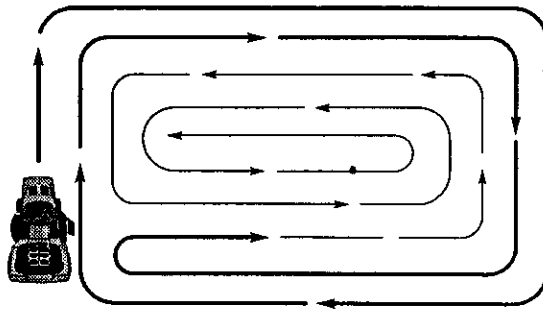
5. Move motion control lever to neutral (N) position. Shutoff engine and set parking brake.

6. Engage transmission by placing freewheel control in engaged position (See "TO TRANSPORT" in this section of manual).
7. Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. Disengage parking brake.
8. Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.

Your transmission is now purged and now ready for normal operation.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has 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.

MAINTENANCE

MAINTENANCE SCHEDULE		BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE	SERVICE DATES			
TRACTOR	Check Brake Operation	✓	✓									
	Check Tire Pressure	✓	✓									
	Check Operator Presence and Interlock Systems	✓										
	Check for Loose Fasteners	✓				✓ ₅	✓					
	Sharpen/Replace Mower Blades			✓ ₃								
	Lubrication Chart			✓			✓					
	Check Battery Level			✓ ₄								
	Clean Battery and Terminals			✓				✓				
	Check Transaxle Cooling			✓								
	Check V-Belts					✓						
ENGINE	Check Engine Oil Level	✓	✓									
	Change Engine Oil (with oil filter)				✓ _{1,2}		✓					
	Change Engine Oil (without oil filter)			✓ _{1,2}				✓				
	Clean Air Filter			✓ ₂								
	Clean Air Screen			✓ ₂								
	Inspect Muffler/Spark Arrester				✓							
	Replace Oil Filter (if equipped)					✓ _{1,2}						
	Clean Engine Cooling Fins					✓ ₂						
	Replace Spark Plug					✓	✓					
	Replace Air Filter Paper Cartridge					✓ ₂						
	Replace Fuel Filter						✓					

1 - Change more often when operating under a heavy load or in high ambient temperatures.
2 - Service more often when operating in dirty or dusty conditions.

3 - Replace blades more often when mowing in sandy soil.
4 - Not required if equipped with maintenance-free battery.
5 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor.

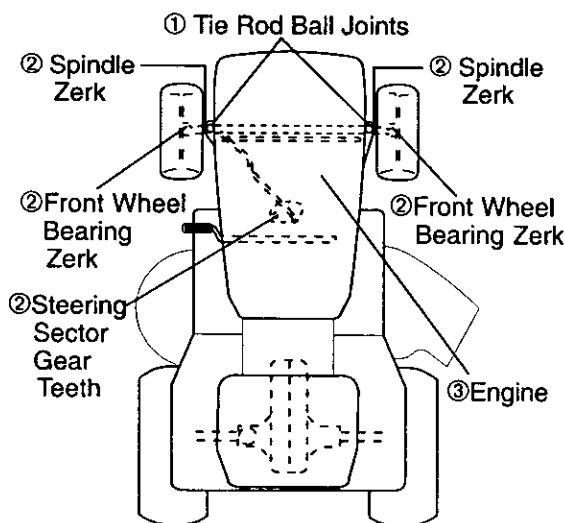
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



① Spray Silicone Lubricant (Move Boots to Lubricate)

② General Purpose Grease

③ Refer to Maintenance "ENGINE" Section

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" 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 that operator presence and interlock systems are working properly. If your tractor does not function as described below, repair the problem immediately.

- The engine should not start unless the brake pedal is fully depressed and attachment 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.

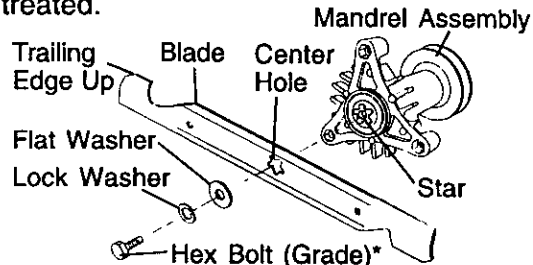
BLADE REMOVAL

1. Raise mower to highest position to allow access to blades.
2. Remove hex 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 hex bolt, lock washer and flat washer in exact order as shown.
5. Tighten bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: Blade bolt is grade 8 heat treated.



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

TO SHARPEN BLADE

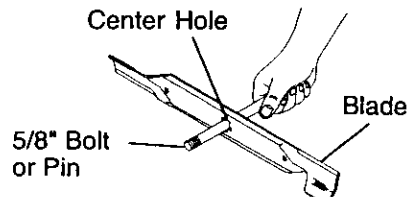
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while 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. Remove terminal guard.
2. Disconnect **BLACK** battery cable first then **RED** battery cable and remove battery from tractor.
3. Rinse the battery with plain water and dry.
4. Clean terminals and battery cable ends with wire brush until bright.
5. Coat terminals with grease or petroleum jelly.
6. Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

TRANSAXLE COOLING

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

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

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

TRANSAXLE PUMP FLUID

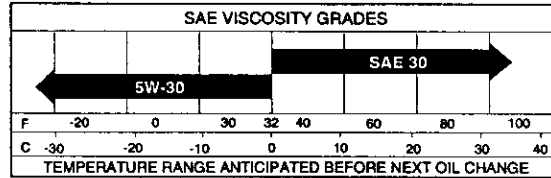
The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest Sears or other qualified service center.

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.

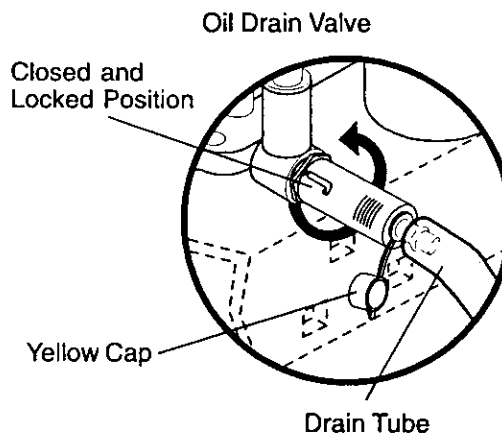


NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 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.

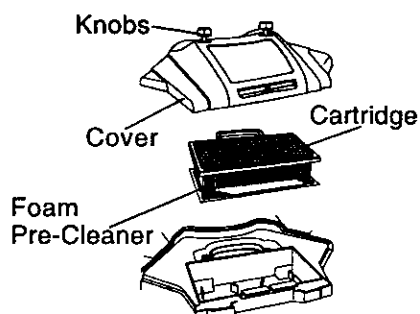
TO CHANGE ENGINE OIL

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.
 2. 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.
7. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
8. 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. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

1. Remove knobs and cover.

TO SERVICE PRE-CLEANER

2. Wash it in liquid detergent and water.
3. Squeeze it dry in a clean cloth.
4. Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

NOTE: If very dirty or damaged, replace pre-cleaner.

TO SERVICE CARTRIDGE

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

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

CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

MUFFLER

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

SPARK PLUG(S)

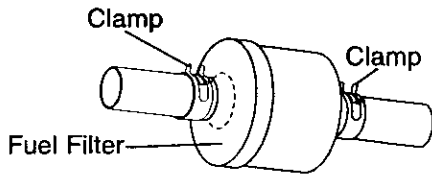
Replace spark plug(s) at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" section of this manual.

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 to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS



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

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

TRACTOR

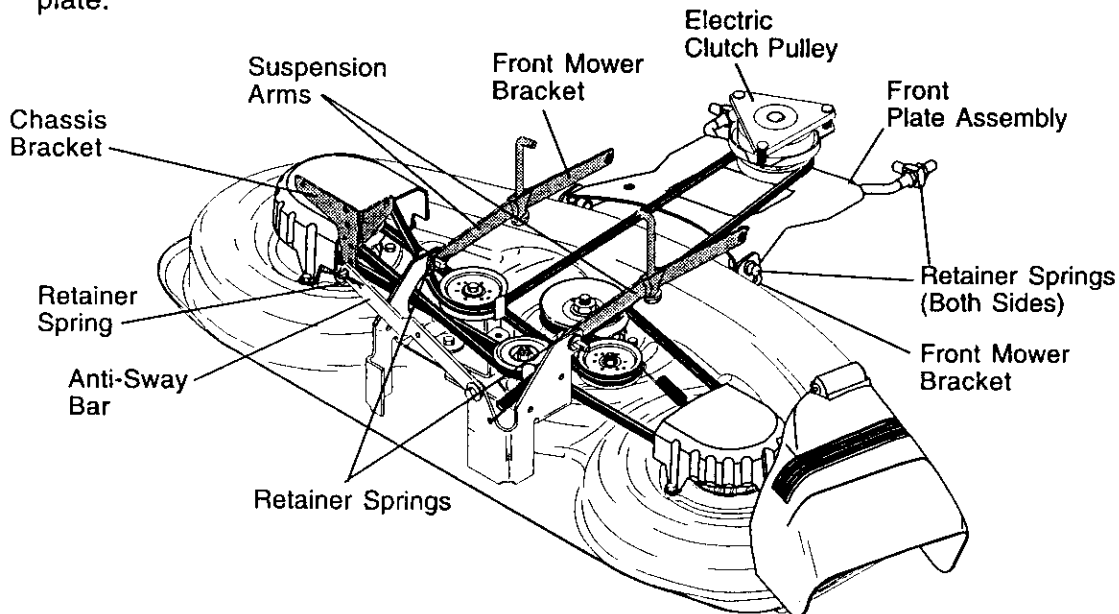
TO REMOVE MOWER

1. Place attachment clutch in "DISENGAGED" position.
2. If equipped, turn height adjustment knob to lowest setting.
3. Lower mower to its lowest position.
4. Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-sway bar from bracket.
5. Remove four retainer springs from front plate assembly and remove plate.

6. Remove retainer springs from suspension arms at deck and disengage arms from deck.
7. Raise attachment lift to its highest position.
8. Slide mower forward and remove belt from electric clutch pulley.
9. Slide mower out from under right side of tractor.

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.



TO LEVEL MOWER HOUSING

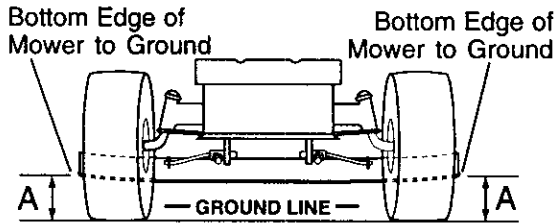
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- 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 3/16".

- 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 the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

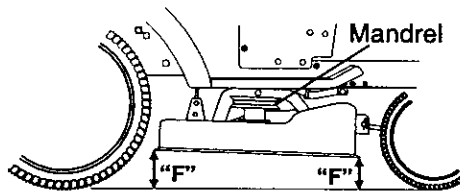
Check adjustment on right side of tractor. Measure distance "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front plate links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.

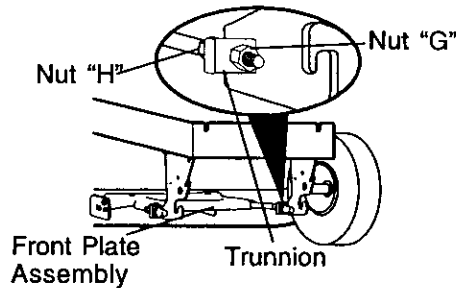
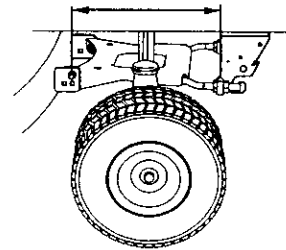
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.
- To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

NOTE: Each full turn of nut "G" will change distance "F" by approximately 3/8".

- Recheck side-to-side adjustment.



BOTH FRONT PLATE LINKS MUST BE EQUAL IN LENGTH



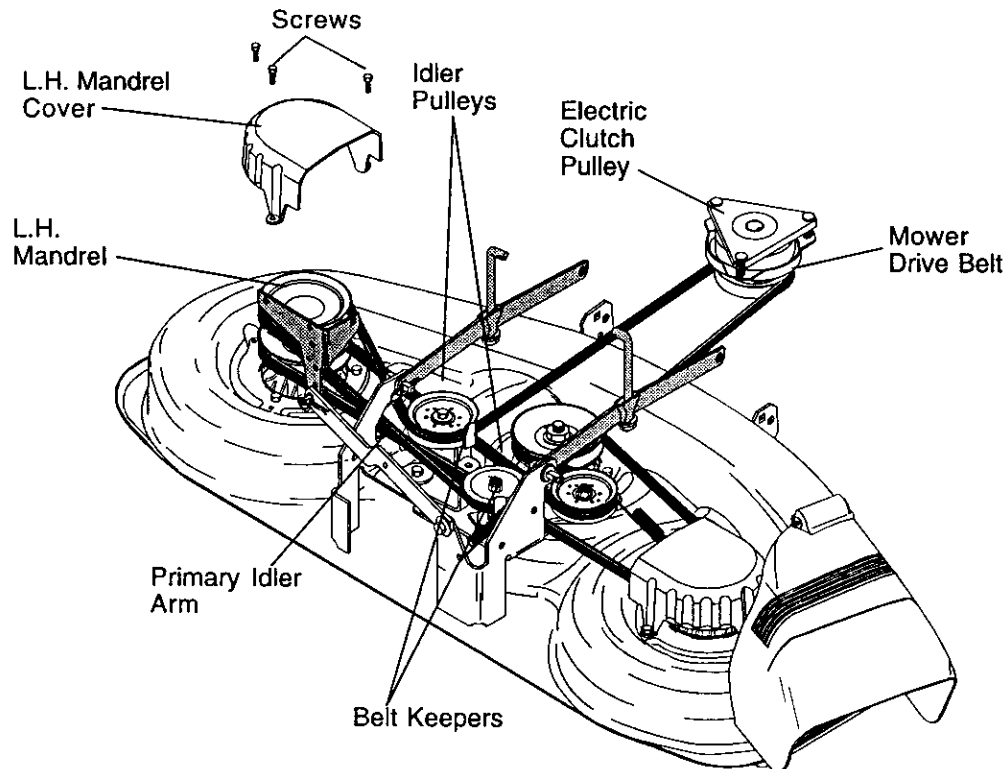
TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

1. Park tractor on a level surface.
Engage parking brake.
2. Remove screws from L.H. mandrel cover and remove cover.
3. Roll belt over the top of L.H. mandrel pulley.
4. Remove belt from electric clutch pulley.
5. Remove belt from idler pulleys.
6. Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
7. Check primary idler arm and two idlers to see that they rotate freely.
8. Be sure spring is securely hooked to primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION

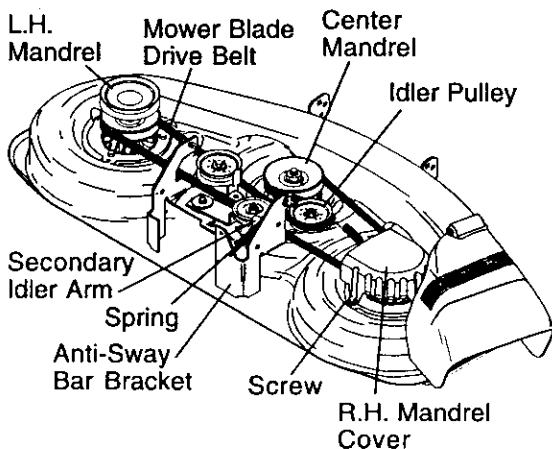
9. Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
10. Install new belt onto electric clutch pulley.
11. Roll belt into upper groove of L.H. mandrel pulley.
12. Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.
13. Reassemble L.H. mandrel cover.



TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

1. Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of manual).
2. Remove mower (See "TO REMOVE MOWER" in this section of manual).
3. Remove screws from R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
4. Carefully roll belt off R.H. mandrel pulley.
5. Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
6. Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
7. Check secondary idler arm and idler to see that they rotate freely.
8. Be sure spring is hooked in secondary idler arm and anti-sway bar bracket.
9. Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
10. Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
11. Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
12. Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
13. Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of manual).

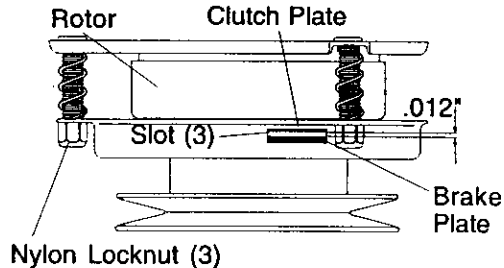


TO ADJUST ATTACHMENT CLUTCH

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by your nearest authorized service center/ department.

1. Make sure attachment clutch and ignition switches are in "OFF" position.
2. Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the side of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.



TO REPLACE MOTION DRIVE BELT

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

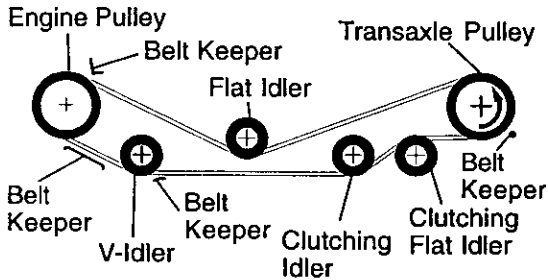
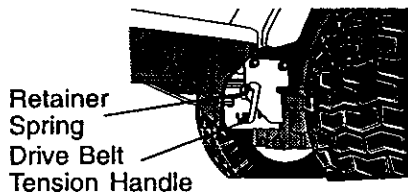
1. Remove mower (See "TO REMOVE MOWER" in this section of this manual.)

BELT REMOVAL -

2. Create slack in belt by removing retainer spring from drive belt tension handle.
3. Remove belt from all idler pulleys, transaxle pulley and then from engine pulley.

BELT INSTALLATION -

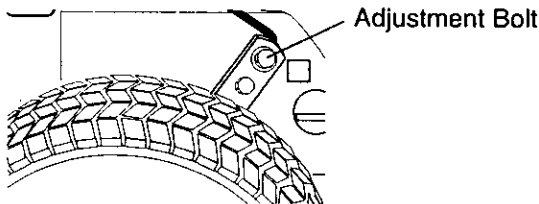
1. Install new belt around engine pulley first, then around transaxle pulley and lastly into all the idler pulleys.
2. Check to be sure belt is positioned correctly and is on proper side of all belt keepers.
3. Engage the drive belt tension handle and replace the retainer spring.
4. Reinstall mower.



TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT

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

1. Park Tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
2. Loosen the adjustment bolt in front of the right rear wheel.
3. Move motion control lever to the neutral position.
4. Tighten the adjustment bolt.



TRANSMISSION REMOVAL/REPLACEMENT

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

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN -

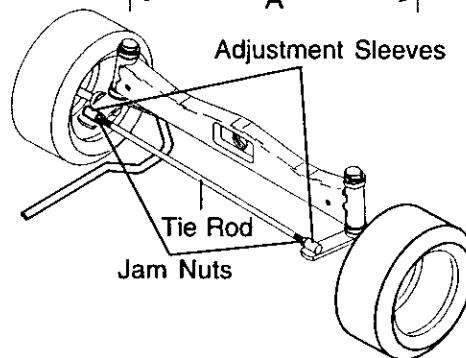
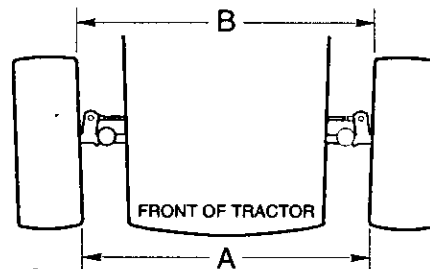
1. Position front wheels straight ahead.
 2. Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN -

1. Loosen jam nuts at adjustment sleeves on tie rod.
2. Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
3. Tighten jam nuts securely.

FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center/department.



TO REMOVE WHEEL FOR REPAIRS

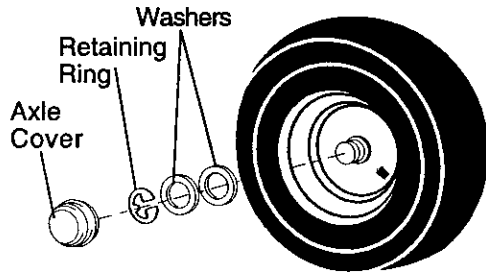
FRONT WHEEL -

1. Block up axle securely.
2. Remove axle cover, retaining ring and washers to allow wheel removal.
3. Repair tire and reassemble.
4. Replace washers and snap retaining ring securely in axle groove.
5. Replace axle cover.

REAR WHEEL -

1. Block rear axle securely.
2. Remove five (5) hub bolts to allow wheel removal.
3. Repair tire and reassemble. Replace and tighten hub bolts securely.

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.



TO START ENGINE WITH A WEAK BATTERY

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

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

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

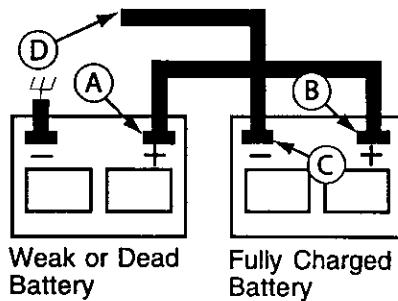
IMPORTANT: Your tractor is equipped with a 12 volt system. The other vehicle must also be a 12 volt system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

1. 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.

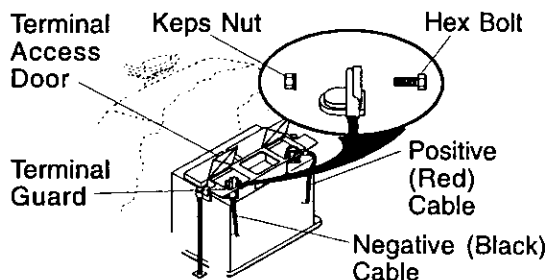


REPLACING BATTERY

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

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

1. Lift hood to raised position.
2. Remove terminal guard.
3. Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
4. Install new battery with terminals in same position as old battery.
5. Reinstall terminal guard.
6. First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
7. Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely.
8. Close terminal access doors.
9. Close hood.



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.
4. Close hood.

INTERLOCKS AND RELAYS

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

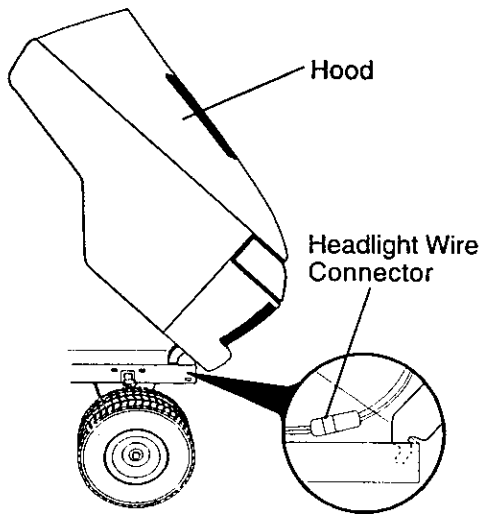
- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY

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.
4. When replacing hood, be sure to reconnect the headlight wire connector.



ENGINE

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 to fast position.
2. Check that swivel is against stop. If it is not, loosen cable clamp screw and pull cable back until swivel is against stop. Tighten cable clamp screw securely.

TO ADJUST CHOKE CONTROL

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

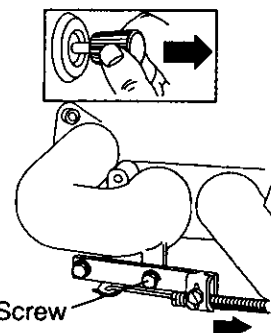
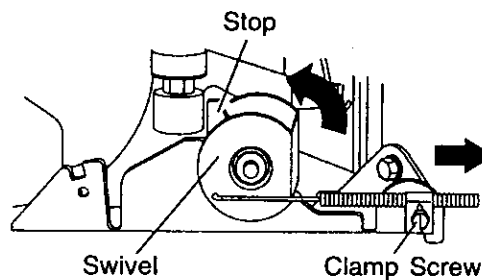
1. With engine not running, move choke control (located on dash panel) to full choke position.
2. Loosen knob and remove cover assembly from air cleaner.
3. Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
4. Replace air cleaner cover assembly and tighten knob.

TO ADJUST CARBURETOR

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

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

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact 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.

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

TRACTOR

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

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.

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

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

ENGINE OIL

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

CYLINDER(S)

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 style="list-style-type: none"> 1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment. 11. Extreme Cold Conditions. 	<ol style="list-style-type: none"> 1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. See "To Adjust Carburetor" in Service and Adjustments section. 10. Contact a Sears or other qualified service center. 11. See "To start engine" in operation section.
Hard to start	<ol style="list-style-type: none"> 1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. See "To Adjust Carburetor" in Service and Adjustments section. 8. Contact a Sears or other qualified service center.
Engine will not turn over	<ol style="list-style-type: none"> 1. Brake pedal not depressed 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es). 	<ol style="list-style-type: none"> 1. Depress brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact a Sears or other qualified service center.
Engine clicks but will not start	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.

TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
Loss of power	<ol style="list-style-type: none"> 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment. 	<ol style="list-style-type: none"> 1. Set in "Higher Cut" position/ reduce speed. 2. Adjust throttle control. 3. Clean underside of mower housing. 4. Clean/replace air filter. 5. Check oil level/change oil. 6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Drain fuel tank and refill with fresh gasoline. 9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/ fins. 12. Clean/replace muffler. 13. Check all wiring. 14. See "To Adjust Carburetor" in Service and Adjustments section. 15. Contact a Sears or other qualified service center.
Excessive vibration	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s). 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Contact a Sears or other qualified service center. 3. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attachment clutch engaged	<ol style="list-style-type: none"> 1. Faulty operator-safety presence control system. 	<ol style="list-style-type: none"> 1. Check wiring, switches and connections. If not corrected, contact a Sears or other qualified service center.
Poor cut - uneven	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel. 5. Clogged mower deck vent from build-up of grass, leaves, and trash around mandrels. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Contact a Sears or other qualified service center. 5. Clean around mandrels to open vent holes.

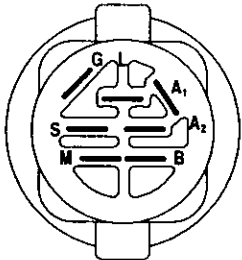
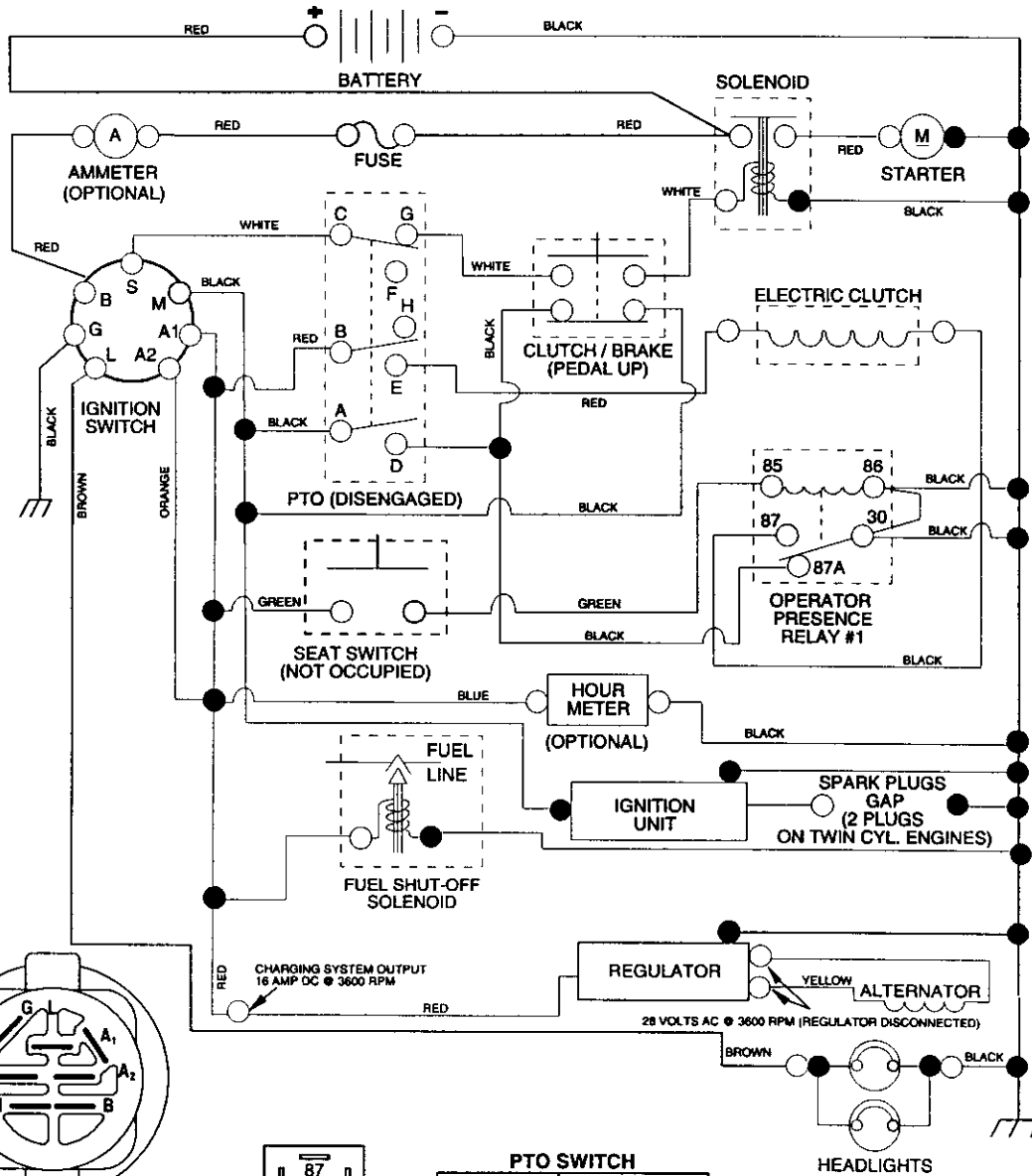
TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to Sears service center

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate	<ol style="list-style-type: none"> 1. Obstruction in clutch mechanism. 2. Worn/damaged mower drive belt. 3. Frozen idler pulley. 4. Frozen blade mandrel. 	<ol style="list-style-type: none"> 1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Contact a Sears or other qualified service center.
Poor grass discharge	<ol style="list-style-type: none"> 1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn. 9. Blades improperly installed. 10. Improper blades used. 11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	<ol style="list-style-type: none"> 1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual. 11. Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	<ol style="list-style-type: none"> 1. Switch is "OFF". 2. Bulb(s) or lamp(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse. 	<ol style="list-style-type: none"> 1. Turn switch "ON". 2. Replace bulb(s) or lamp(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
Battery will not charge	<ol style="list-style-type: none"> 1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.
Loss of drive	<ol style="list-style-type: none"> 1. Freewheel control in "disengaged" position. 2. Motion drive belt worn, damaged, or broken. 3. Air trapped in transmission during shipment or servicing. 	<ol style="list-style-type: none"> 1. Place freewheel control in "engaged" position. 2. Replace motion drive belt. 3. Purge transmission.
Engine "backfires" when turning engine "OFF"	<ol style="list-style-type: none"> 1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	<ol style="list-style-type: none"> 1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

TRACTOR -- MODEL NUMBER 917.274980

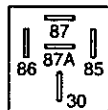
SCHEMATIC



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

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



RELAY

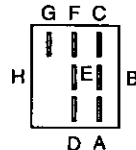
PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



REMOVABLE CONNECTIONS



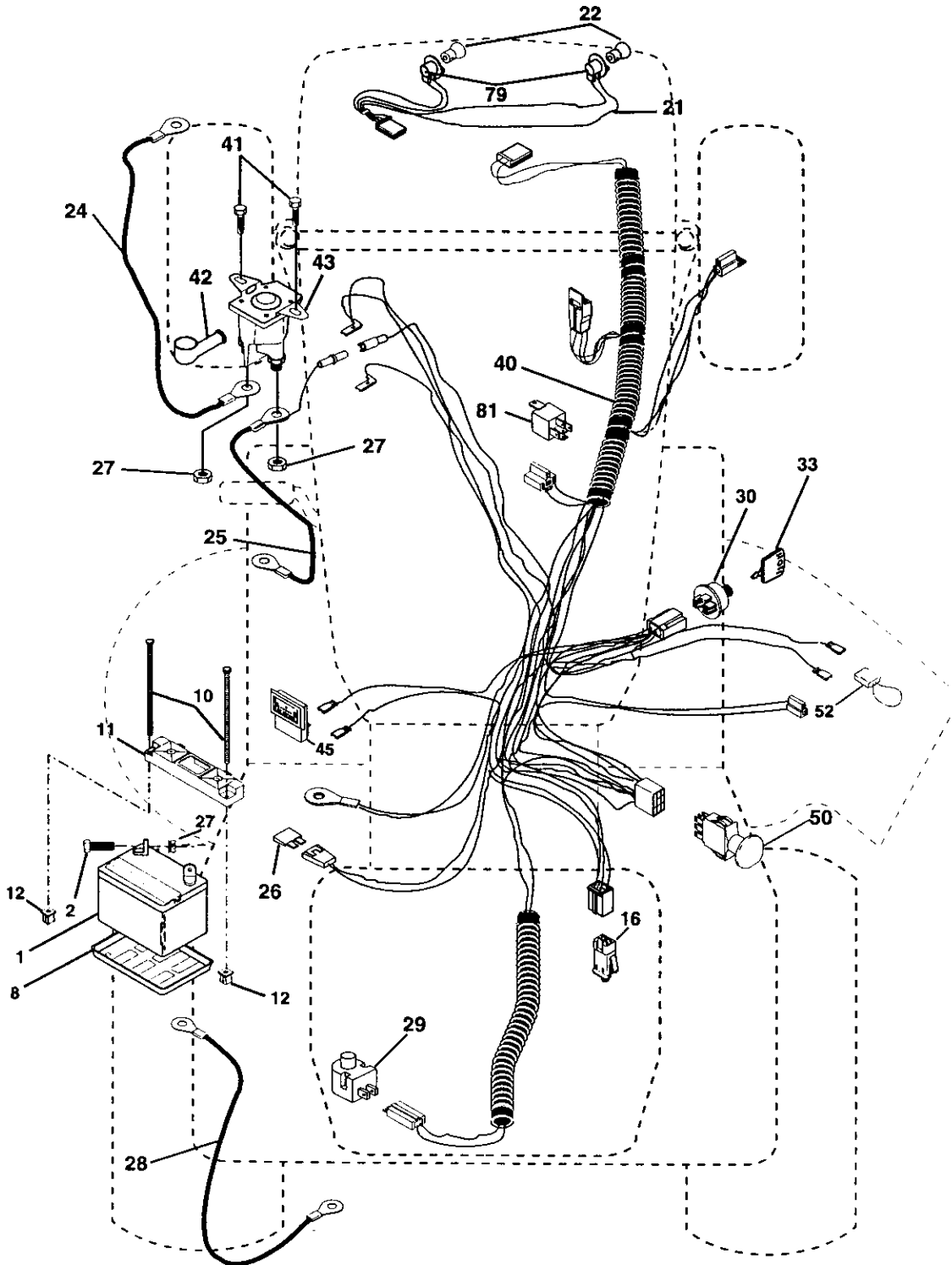
NON-REMOVABLE CONNECTIONS



REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.274980

ELECTRICAL



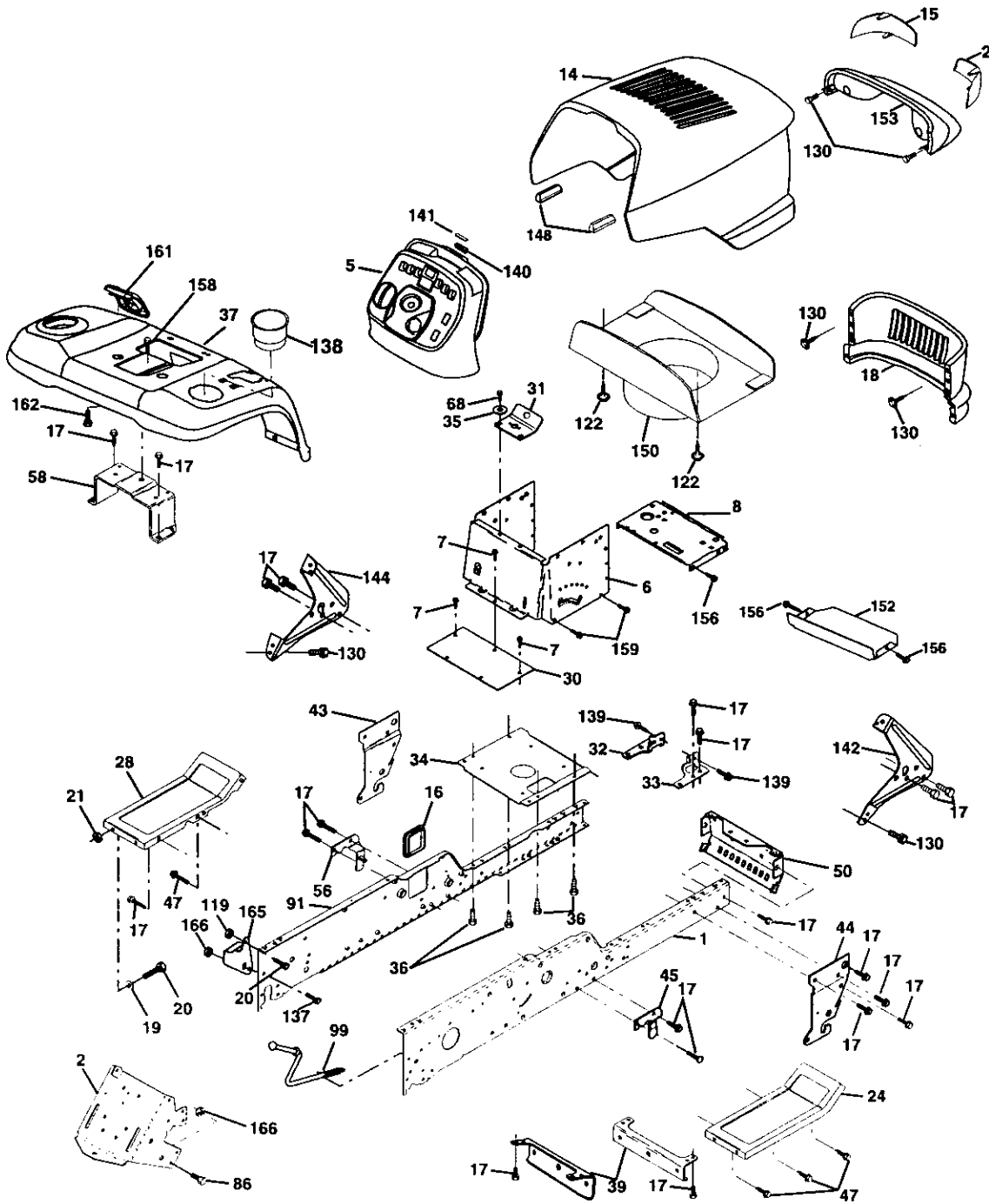
TRACTOR -- MODEL NUMBER 917.274980

ELECTRICAL

KEY PART NO.	NO.	DESCRIPTION
1	144927	Battery
2	74760412	Bolt Hex Head 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt 1/4-20 x 7.5 Zinc
11	150109	Hold down Battery Dash Mount
12	145769	Nut Push Nylon 1/4"
16	176138	Switch Interlock
21	175688	Harness Socket Light W/4152J
22	4152J	Bulb Light
24	4206J	Cable Battery
25	146149	Cable Battery
26	108824X	Fuse
27	73510400	Nut Keps Hex 1/4-20 Unc
28	170697	Cable, Ground
29	160784	Switch, Plunger
30	175566	Switch, Ign
33	140403	Key, Ignition
40	170238	Harness Ign.
41	17720408	Screw Thd Cut 1/4-20 x 1/2
42	131563	Cover, Terminal
43	178861	Solenoid
45	122822X	Ammeter
50	174652	Switch, PTO
52	141940	Protection Wire Loop
79	179763	Light Asm.
81	109748X	Relay Asm.

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

TRACTOR -- MODEL NUMBER 917.274980
CHASSIS AND ENCLOSURES



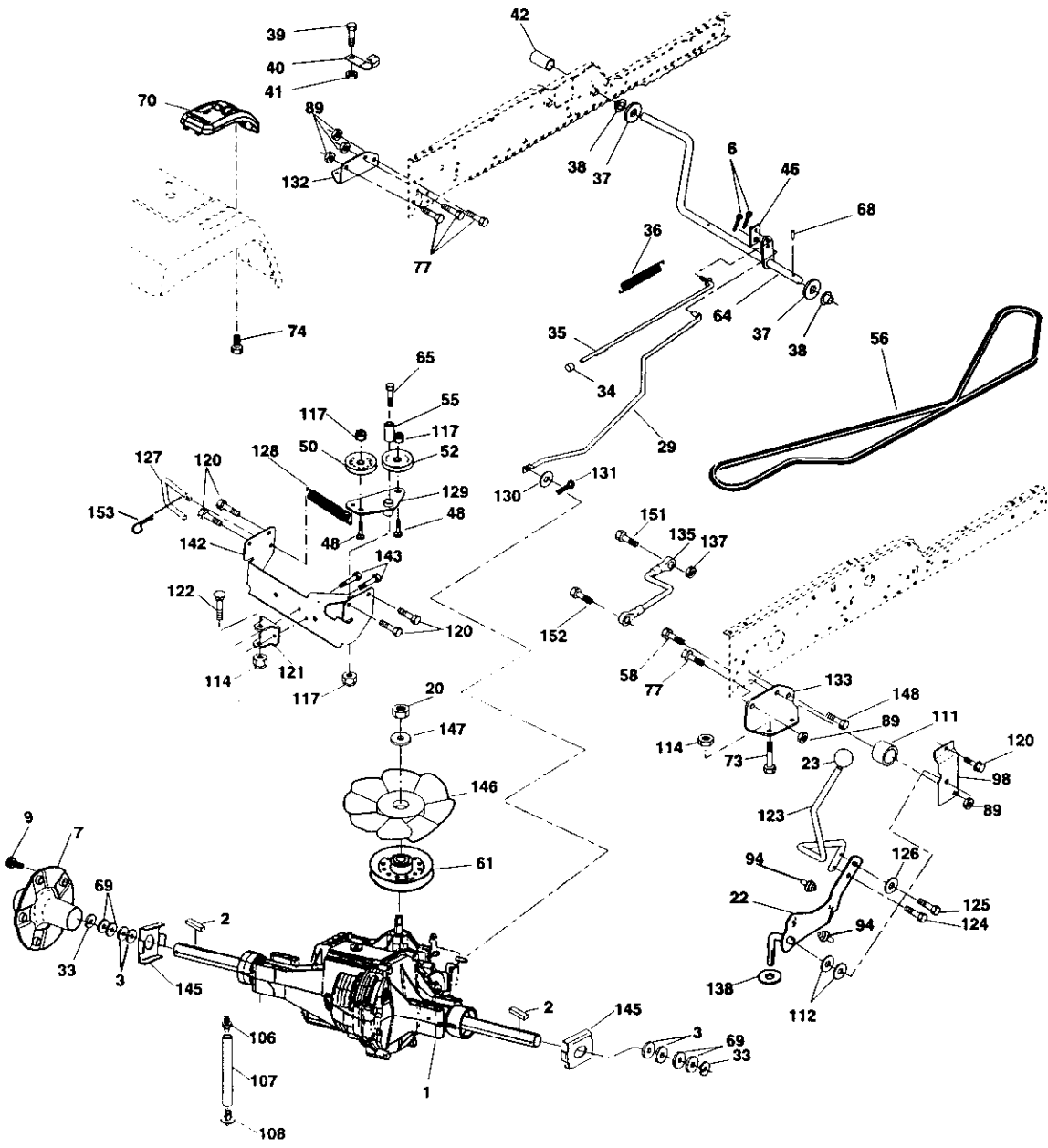
TRACTOR -- MODEL NUMBER 917.274980
CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 180372	Rail, Frame RH	56 154914	Bracket Asm., Susp Chassis Lh
2 175282	Drawbar, Gt	58 183569	Bracket Fender
4 73680700	Nut, Crownlock Hex 7/16-14UNC	66 17490608	Screw Thdr 3/8-16 x 1/2
5 163976X428	Dash YTGT 2 Cyl	68 17490508	Screw Thdrol. 5/16-18 x 1/2
6 157882	Dash, Lower Vgt One Piece	84 142992	Stop, Over Center Mower
7 17720408	Screw, Thd Cut 1/4-20 x 1/2	91 180366	Rail, Frame Lh
8 145166	Support, Battery	119 73680600	Nut Crownlock 3/8-16 unc
14 175259X558	Hood Asm., Pnt Stealth YTGT	122 161464	Screw Hex Wshd 8-18 x 7/8
15 161841	Lens LH	130 164863	Screw HWHD Hi-Lo #13-16 x 3/4
16 121794X	Cover, Access	137 74780716	Bolt Fin Hex 7/16-14 x1 Gr. 5
17 17060612	Screw	138 179125X428	Cupholder
18 174515X558	Grille	139 171873	Bolt Shoulder 5/16-18 TT
19 19131312	Washer 13/32x13/16x12 Ga.	140 163806	Magnet YTGT
20 STD523710	Bolt, Fin Hex 3/8-16 x 1	141 163805	Striker Plate YTGT
21 STD541437	Nut Crownlock 3/8-16 Unc	142 161897	Bracket Dash Rh
24 179717X558	Footrest, RH	144 161900	Bracket Dash Lh
25 161842	Lens RH	148 164655	Extrusion Bumper
28 179716X558	Footrest, LH	150 161237	Duct Heat Hood
30 145052	Saddle	152 177956	Shield Browning
31 161419	Brace, Supt 1-pc VGT Strg	153 175242	Socket Asm Bulb Twistlock
32 161327	Bracket, Pivot Chassis Lh	156 17000512	Screw 5/16-18 x 3/4
33 161326	Bracket, Pivot Chassis Rh	158 17670608	Screw Thdrol 3/8-16 x 1/2
34 177018	Plate Asm	159 17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
35 19111116	Washer 11/32x11/16x16 Ga.	161 179612X428	Screw Hex Wsh Hi-Lo 1/4-1/2unc
36 17060512	Screw 5/16-18 x 3/4	162 142432	Screw Hex Wsh Hi-Lo 1/4-1/2 Unc
37 178510X558	Fender	165 182254	Bracket Support Fuel Tank
39 175278	Bracket, Axle Front	166 73680700	Nut Crown Lock 7/16-14 Unc
43 136939	Bracket, Spnsn Front Lh	167 74780716	Bolt Fin Hex 7/16-14 x 1 Gr. 5
44 136940	Bracket, Spnsn Front Rh		
45 154913	Bracket Asm., Susp Chassis Rh		
50 175476	Bracket, Chassis Front		

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

TRACTOR -- MODEL NUMBER 917.274980

GROUND DRIVE



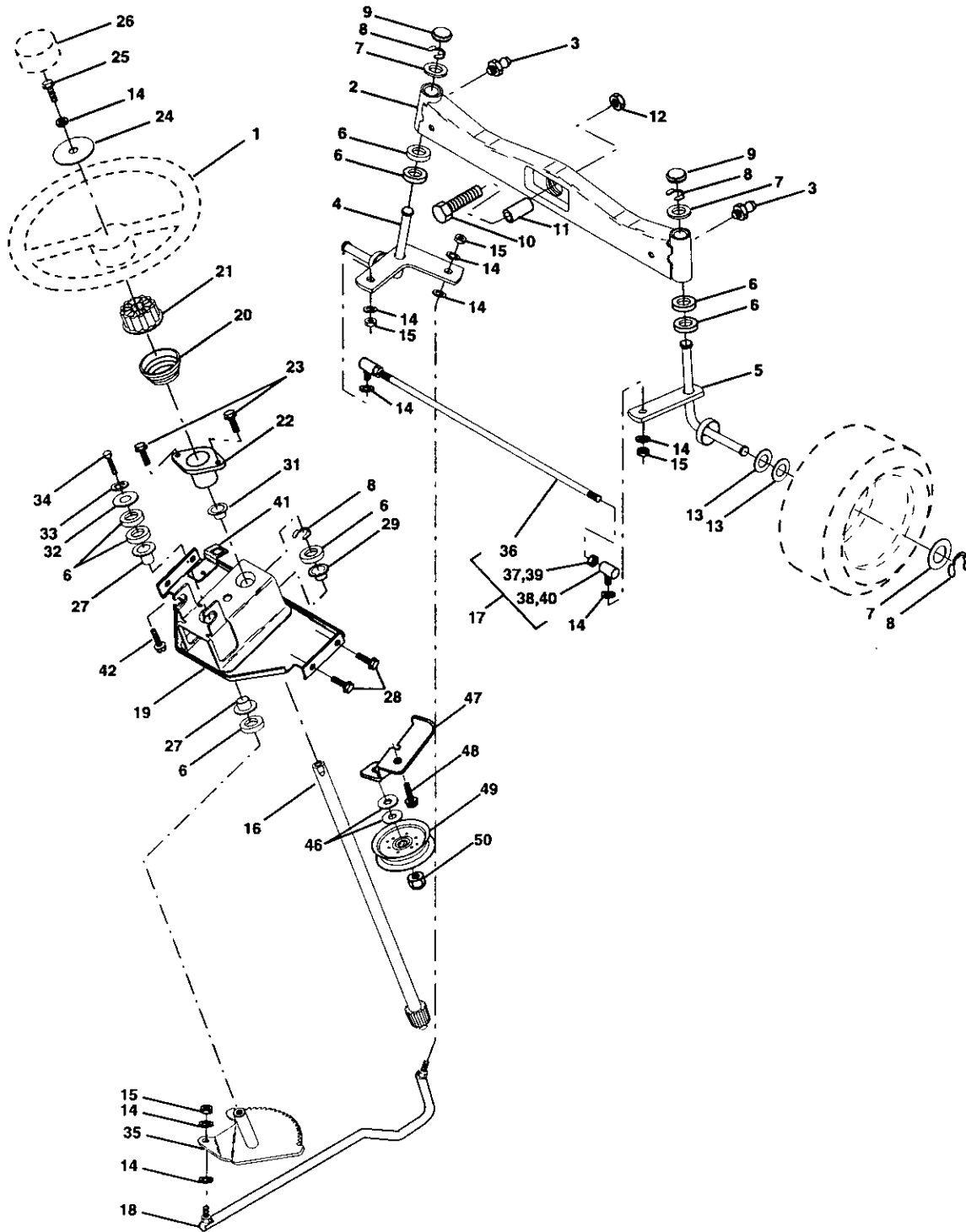
TRACTOR -- MODEL NUMBER 917.274980

GROUND DRIVE

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	-----	Transaxle Hydro Gear 331-3000 (See Breakdown)	106	142918	O-Ring Asm Hydro Gear
2	7070E	Key 1/4 x 2.5	107	154739	Line Fuel Hydro 15" VGT
3	7563R	Washer Thrust	108	142917	Cap Asm Vent Hydro Gear 70109
6	STD561210	Pin, Cotter	111	156240	Spacer Shift Lever VGTH
7	140507	Wheel, Hub Assembly	112	156104	Washer Nylon High Temp
9	140080	Bolt, Hub	114	73800500	Nut Lock Hx W/Ins 5/16-18 Unc
20	73940800	Nut	117	73900600	Nut, Lock Flg. 3/8-16
22	180235	Lever Asm Shift Lower	120	17060612	Screw 3/8-16 x .75
23	130564	Knob	121	175611	Bracket Strap Torque
29	176600	Brake, Rod	122	72010520	Bolt RDHD SQ 5/16-18unc x 2-1/2
33	12000053	Ring E	123	176602	Rod Shift
34	71673	Cap, Parking Brake	124	165492	Bolt Shoulder 5/16-18 x .561
35	137648	Rod, Parking Brake	125	166880	Screw 5/16-18 x 5/8
36	149412	Spring, Drive Ground	126	166002	Washer SRRTD 5/16ID x 1.0 x .125
37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.	127	177362	Link Control Clutch
38	150035	Nyliner	128	176624	Spring Drive GRND
39	74321016	Screw, Fin. #10-24 x 1	129	179473	Bracket Asm Idler Tensioning
40	178575	Actuator, Interlock Switch	130	19131016	Washer 13/32 x 5/8 x 16 Ga
41	73931000	Nut Centerlock 10-24 Unc	131	76020312	Pin Cotter 3/32 x 3/4
42	8883R	Cover, Pedal	132	175467	Bracket Mtg Hydro 3500 LH VGT
46	145170	Retainer, Spring	133	175468	Bracket Mtg Hydro 3500 RH VGT
48	72110614	Bolt, 3/8-16 x 1-3/4 Gr. 5	135	177364	Link Asm Control Hydro 3500
50	131494	Pulley, Idler, Flat	137	1685H	Nut Lock 5/16-18 NC Thd
52	127783	Pulley, Idler, Grooved	138	1370H	Washer Thrust 5/8 x 1.10 x 1/32
55	105706X	Bearing, Idler	142	175469	Strap Torque HG-3500
56	161597	V-Belt	143	17060512	Screw Thdrol 5/16-18 x 3/4
58	74760724	Bolt Fin Hex 7/16-14 x 1-1/2	145	163168	Washer Axle Flange HG-3000
61	143995	Pulley, Transaxle	146	140462	Fan 7" Hydro
64	176601	Shaft, Clutch/Brake Pedal	147	141322	Washer
65	179613	Bolt, Shoulder	148	17060620	Screw 3/8-16 x 1.0-1/4
68	STD571812	Pin, Roll	151	74760514	Bolt Fin Hex 5/16-18 x 7/8
69	123800X	Washer	152	178705	Bolt hex 5/16-18 x 1
70	179612X428	Console Fuel Window	153	4997H	Retainer Spring
73	74490548	Bolt Hex Flghd 5/16-18 x 3 Gr. 5			
74	142432	Screw Hex Wsh. Hi-Lo 1/4-1/2			
77	74780716	Bolt Fin Hex 7/16-14 x 1 Gr. 5			
89	73680700	Nut Crownlock 7/16-14 Unc			
94	133835	Fastener Christmas Tree			
98	141004	Bracket Shift			

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

TRACTOR -- MODEL NUMBER 917.274980
STEERING ASSEMBLY



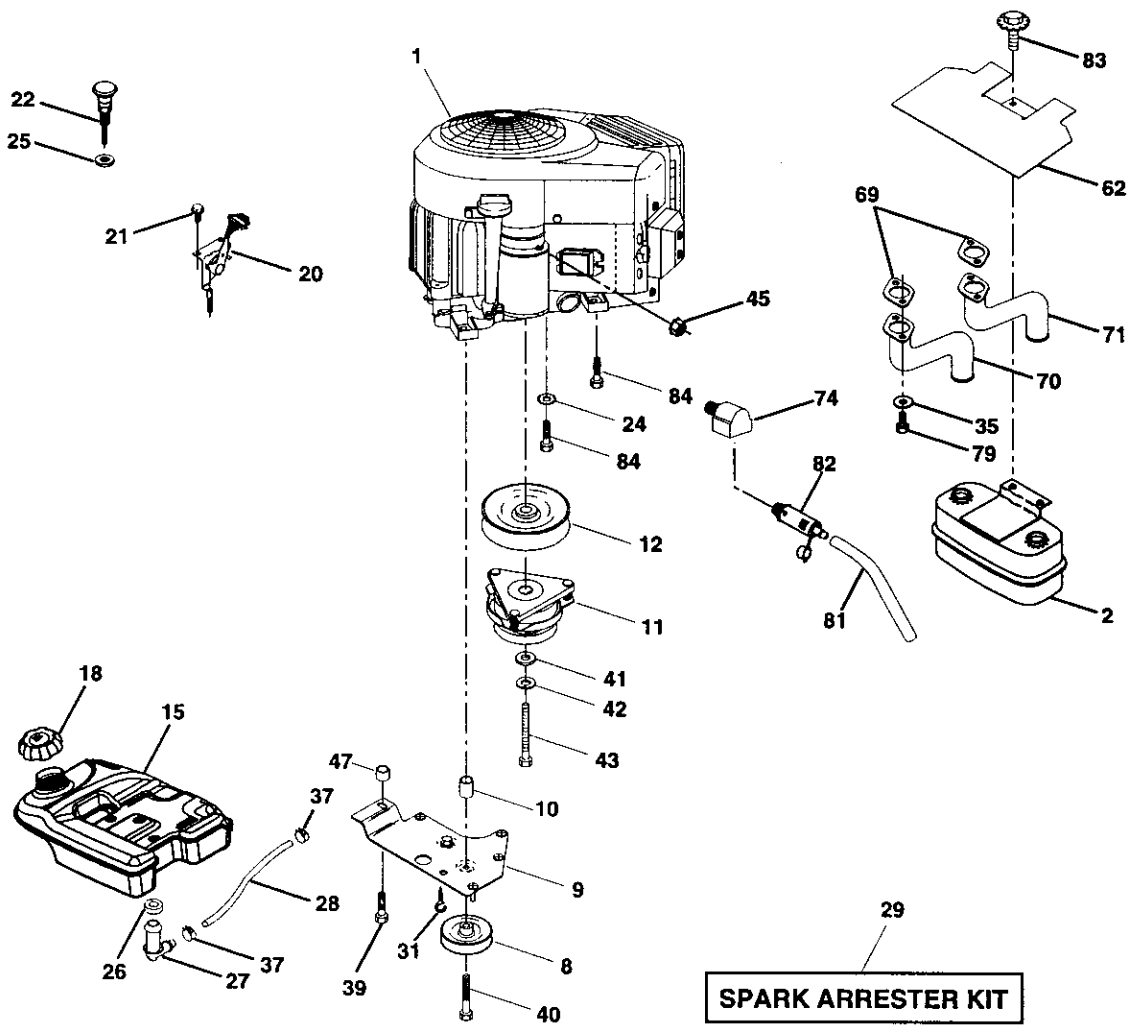
TRACTOR -- MODEL NUMBER 917.274980
STEERING ASSEMBLY

KEY PART NO.	PART NO.	DESCRIPTION
1	139768	Wheel, Steering
2	178557	Axle Asm., Front
3	6855M	Fitting, Grease
4	161849	Spindle Asm, LH
5	161848	Spindle Asm., RH
6	6266H	Bearing, Race Thrust Harden
7	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring, Klip #T5304-75
9	121232X	Cap, Spindle
10	74781044	Bolt, Fin Hex 5/8-11 x 2-3/4
11	136518	Spacer Bearing Axle Front
12	73901000	Nut, Lock Flange 5/8-11 Unc
13	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
14	STD551137	Washer, Lock Hvy Hlcl Spr 3/8
15	STD541537	Nut, Lock Center 3/8-24 UNF
16	145103	Shaft Asm., Steering
17	137347	Rod Asm., Tie Ball J Ball Vgt (Inc. Key No. 36-40)
18	175572	Draglink, Ball Joint Solid Vgt
19	156011	Support Asm., Steering Vgt
20	172020X428	Boot, Steering
21	100711L	Adapter, Wheel Steering
22	155105	Bushing, Strg. Blk
23	152927	Screw
24	19133812	Washer 13/32 x 2-3/8 x 12 Ga.
25	STD523710	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	139769	Cap, Wheel Steering
27	3366R	Bearing, Col. Strg.
28	17000612	Screw 3/8-16 x 3/4
29	104239X	Bearing, Flange
31	138136	Bushing, Nyliner Snap
32	19111610	Washer 11/32 x 1 x 10 Ga.
33	STD551131	Washer, Lock Hvy Hlcl Spr 5/16
34	74780512	Bolt, Fin Hex Hd 5/16-18 x 3/4
35	138059	Gear, Sector Steering
36	137156	Tie Rod
37	73360600	Jam Nut RH Thread
38	109850X	Joint Asm. Ball RH Thread
39	73700600	Jam Nut LH Thread
40	109851X	Joint Asm. Ball LH Thread
41	155246	Bracket Switch Interlock VGT 97
42	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
46	19131610	Washer Flat 13/32 x 1 x 10 Ga.
47	179471	Bracket Asm. Idler Stationary
48	17060612	Screw 3/8-16 x .75
49	175820	Pulley Idler Flat
50	73900600	Nut Lock Flg. 3/8-16 Unc

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

TRACTOR -- MODEL NUMBER 917.274980

ENGINE



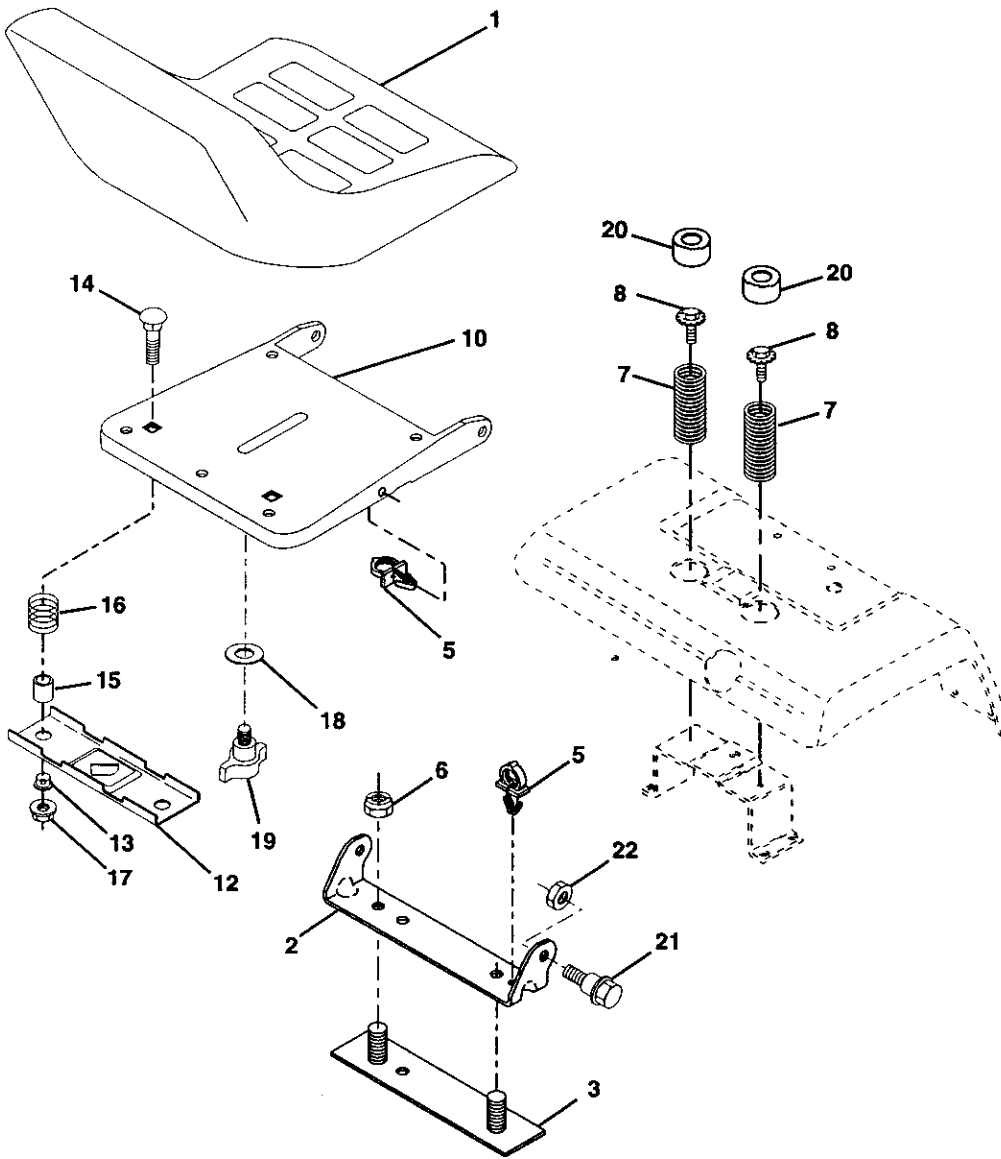
KEY PART NO.	NO.	DESCRIPTION
1	-----	Engine Briggs, Model No. 446777 (Order parts from engine manuf.)
2	149723	Muffler Side
8	121361X	Pulley V-Idler
9	177748	Keeper Asm. Belt Engine VGT
10	175287	Bushing
11	170056	Clutch Electric
12	143996	Pulley Engine VGT Elect Clutch
15	179115	Tank Fuel Rear 5.0
18	179124X428	Cap Asm. Fuel
20	175437X428	Control Throttle
21	164863	Screw Hex Thd Cut 1/4 - 20 X 5/8
22	175440X428	Control Choke
24	11050600	Washer Ext Tooth 3/8
25	73920600	Nut Keps 3/8-24 Unf
26	3645J	Bushing
27	139277	Stem Tank Fuel
28	7834R	Fuel Line
29	137180	Spark Arrester Kit
31	145006	Clip
35	10040500	Washer
37	123487X	Clamp Hose

KEY PART NO.	NO.	DESCRIPTION
39	17490636	Screw TT 3/8-16 x 2-1/4 UNC
40	17490664	Screw TT 3/8-16 x 4 UNC
41	126197X	Washer 1-1/2 OD X 15/32 ID X .250
42	10040700	Washer Lock 7/16
43	179953	Bolt Hex 7/16-20 x 3.75 Gr. 5
45	73510400	Nut Keps Hex 1/4-20
47	175288	Spacer
62	146629	Shield Heat Muffler CV-Intek
69	165391	Gasket
70	176069	Tube Exhaust LH
71	176070	Tube Exhaust RH
74	162295	Elbow Street Brass
79	71070512	Screw Hex Hd Cap 5/16-18 x 3/4
81	148456	Tube Drain Oil Easy
82	148315	Plug Oil Drain Easy
83	171877	Bolt 5/16-18unc X 1-3/4 W/Sems
84	17060624	Screw Thdrol 3/8-16 x 1-1/2

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

TRACTOR -- MODEL NUMBER 917.274980

SEAT ASSEMBLY



KEY PART NO. NO.

NO.	NO.	DESCRIPTION
1	180597	Seat
2	180166	Bracket Pivot Fender
3	140675	Strap, Fender
5	145006	Clip, Push In, Hinged
6	STD541437	Nut, Crownlock 3/8-16 Unc
7	124181X	Spring, Seat Cprsn
8	171877	Bolt 5/16-18Uncx 3/4 w/Sems
10	180186	Pan, Seat
12	121246X	Bracket, Mounting Switch
13	121248X	Bushing, Snap
14	72050412	Bolt, Carriage 1/4-20 X 1-1/2
15	134300	Spacer, Split

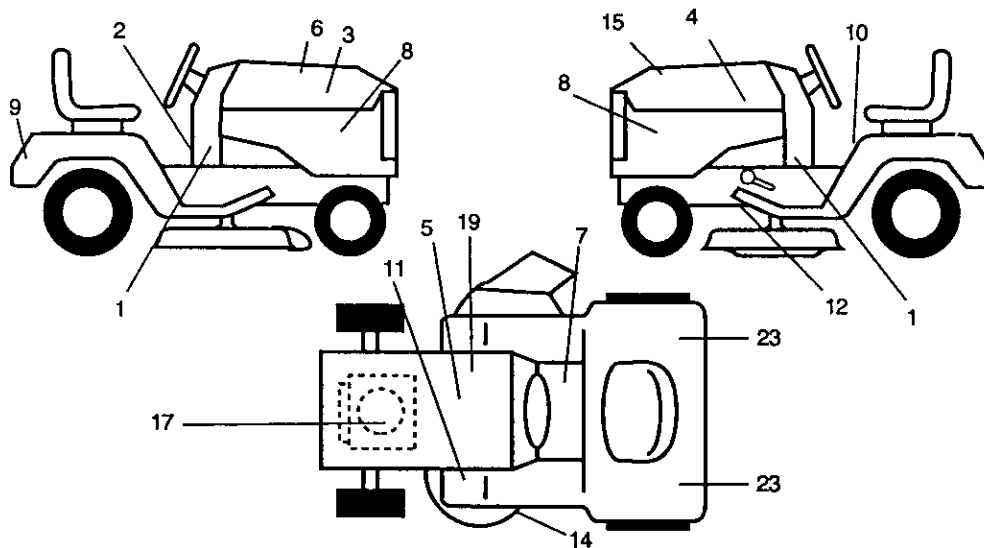
KEY PART NO. NO.

NO.	NO.	DESCRIPTION
16	121250X	Spring, Cprsn
17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
18	19171912	Washer 17/32x1-3/16x12 Ga.
19	166369	Knob, Seat
20	124238X	Cap, Spring Seat
21	171852	Bolt, Shoulder 5/16-18
22	STD541431	Nut, Crownlock 5/16-18 Unc

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

TRACTOR -- MODEL NUMBER 917.274980

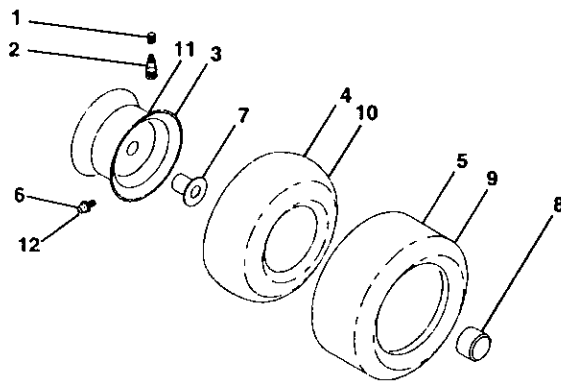
DECALS



KEY NO.	PART NO.	DESCRIPTION
1	182168	Decal, Dash Panel
2	164094	Decal, Dash
3	171700	Decal, Hood, Craftsman, RH
4	171701	Decal, Hood, Craftsman, LH
5	149516	Decal, Battery DNGR/PSN ENG Asm
6	133644	Decal, Maintenance
7	140837	Decal, Brake Parking
8	183726	Decal SD, PNL
9	163204	Decal, Fender, Craftsman
10	156439	Decal, Fender Danger
11	181252	Decal, Clutch/Brake

KEY NO.	PART NO.	DESCRIPTION
12	177554	Decal, V-Belt Drive Schematic
14	160397	Decal, V-Belt Schematic
15	183725	Decal, Repl Parts
17	181604	Decal, Engine
19	138047	Decal, Battery
23	106202X	Reflector, Taillight
--	138311	Decal, Handle Lft Height Adjust (Lift Handle)
--	166960	Decal, Bypass
--	179768X428	Pad, Footrest LH
--	179769X428	Pad, Footrest RH
--	183744	Manual, Owner's (Eng)
--	183745	Manual, Owner's (Span)

WHEELS & TIRES

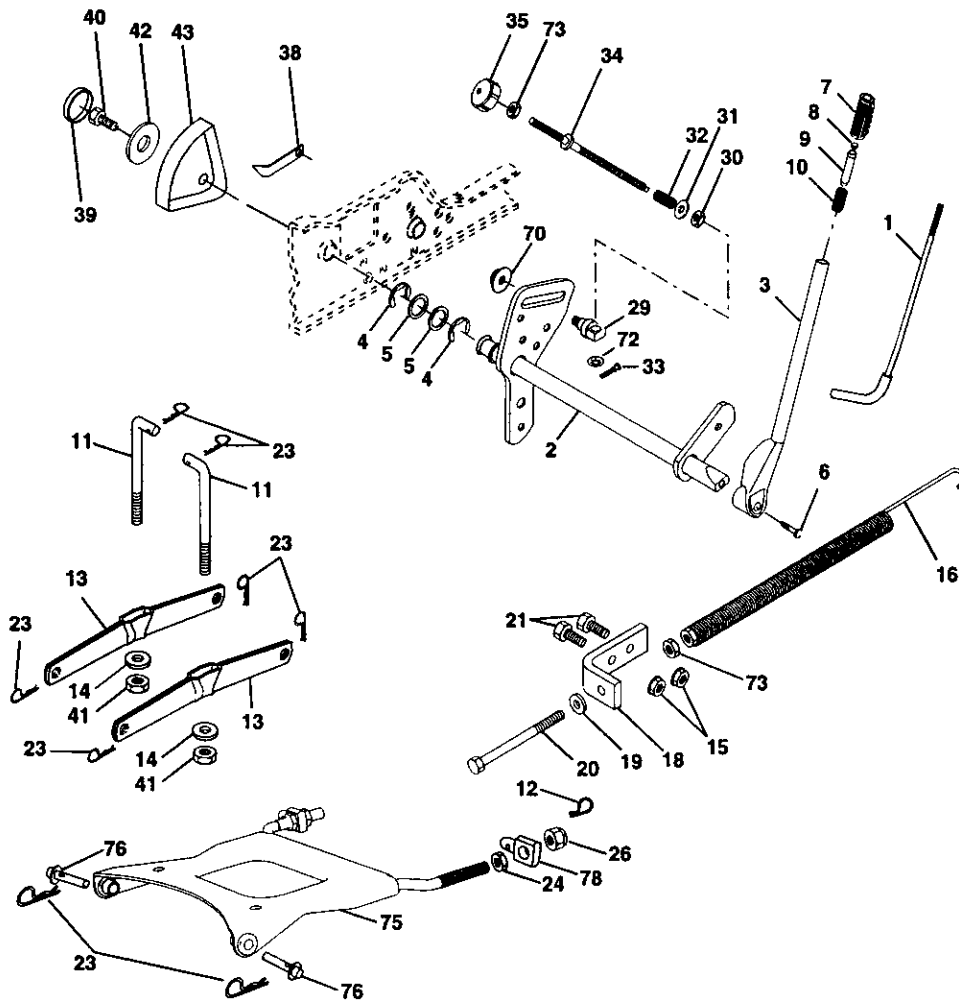


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	106228X624	Rim Assembly, Front
11	106277X624	Rim Assembly, Rear
4	8134H	Tube, Front (Service Item Only)
10	7154J	Tube, Rear (Service Item Only)
5	106230X	Tire, Front
9	140183	Tire, Rear
6	278H	Fitting, Grease (Front Wheel Only)
12	6856M	Fitting, Grease
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X428	Cap, Axle (Front Wheel Only)
--	144334	Sealant, Tire (10 oz. Tube)

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

TRACTOR -- MODEL NUMBER 917.274980

LIFT ASSEMBLY



KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
1	121006X	Rod Asm., Lever
2	180045	Shaft Asm., Lift Vgt
3	159189	Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.
6	71110624	Bolt, Fin Hex 3/8-16 x 1-1/2
7	125631X	Grip, Handle Fluted
8	122365X	Button, Plunger
9	122364X	Plunger, Button
10	2876H	Spring 2-1/8"
11	146704	Link Lift
12	163552	Retainer, Spring
13	139868	Arm, Suspension Vgt
14	169865	Bearing
23	STD624008	Retainer, Spring
24	73350800	Nut, Jam Hex 1/2-13 Unc
26	73800800	Nut, Lock w/Wsh 1/2-13 Unc
29	150233	Trunnion, Infin Height
30	110807X	Nut, Special
31	19131016	Washer 13/32 x 5/8 x 16 Ga.

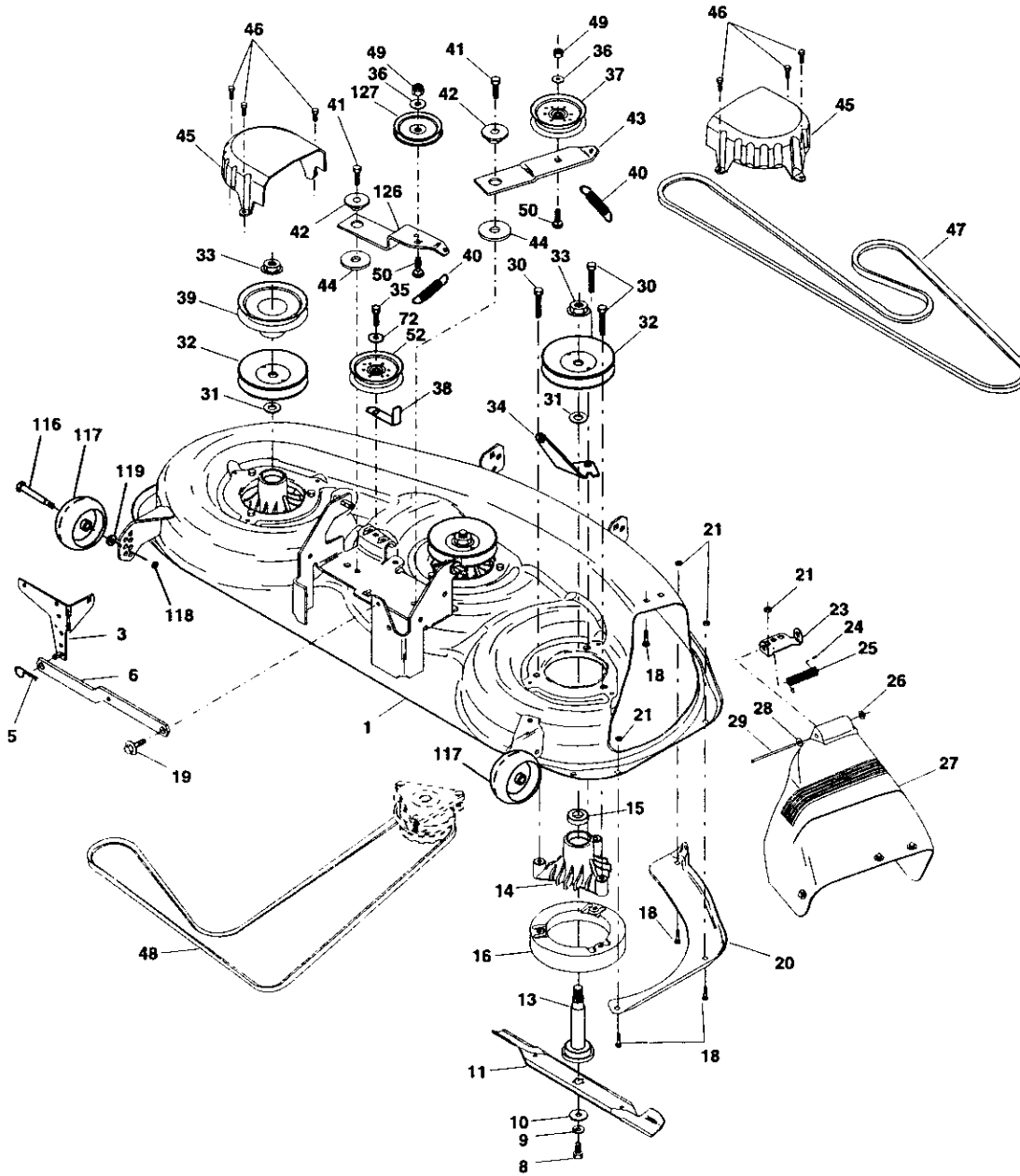
KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
32	137150	Spring, Compression Inf Hgt
34	137167	Rod, Adj Lift
35	138057	Knob, Inf 3/8-16 Unc
38	155097	Pointer, Height Indicator
39	123935X	Plug, Hole
40	17060516	Screw 5/16-18 x 1
41	73540600	Nut, Crownlock 3/8-24
42	19112410	Washer 11/32 x 1-1/2 x 10 Ga.
43	123934X	Scale, Indicator Height
70	145212	Nut Hex Flange Lock
72	110452X	Nut Push Phos & Oil
73	73350600	Nut Hex Jam 3/8-16
75	175805	Plate Asm Susp Front
76	175560	Pin Flange
78	175689	Trunnion Front Susp.
80	126684X	Washer Shim
82	169484	Retainer Clip

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

TRACTOR -- MODEL NUMBER 917.274980

MOWER DECK



TRACTOR -- MODEL NUMBER 917.274980

MOWER DECK

KEY PART

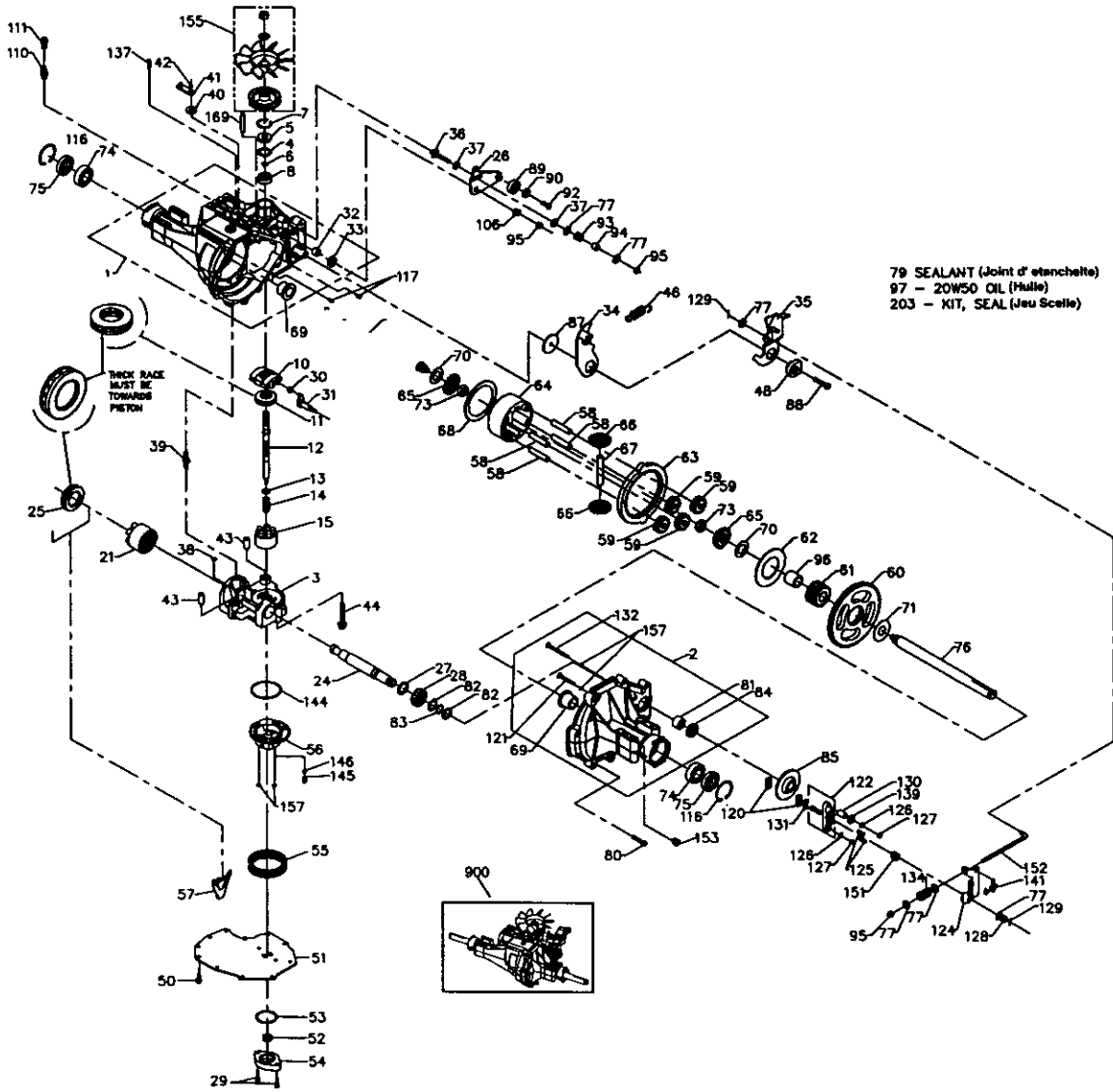
NO.	NO.	DESCRIPTION
1	156948	Deck Weldment
3	138457	Bracket Asm., Sway Bar
5	STD624008	Retainer Spring
6	178024	Bar Sway Deck
8	850857	Bolt, Patched 3/8-24 x 1-1/4 Gr. 8
9	STD551137	Washer, Lock Hvy., Unplated 3/8
10	140296	Washer, Hard Blade, Mower Vented
11	176084	Blade
13	137553	Shaft Asm. w/Lower Bearing
14	137152	Housing, Mandrel
15	110485X	Bearing, Ball, Mandrel
16	174493	Stripper, Mower
18	STD533106	Bolt, Carriage 5/16-18 x 5/8
19	132827	Bolt, Hex Head, Shoulder 5/16-18
20	145055	Baffle, Vortex Mower 46"
21	STD541431	Nut, Crownlock 5/16-18 UNC
23	177563	Bracket, Deflector
24	105304X	Cap, Sleeve
25	149287	Spring, Torsion, Deflector
26	110452X	Nut, Push
27	166883X428	Deflector Clipping
28	19111016	Washer 11/32 x 5/8 x 16 Ga.
29	131491	Rod, Hinge
30	173984	Screw, Thd Rolling
31	129963	Washer, Spacer Mower Vented
32	153531	Pulley, Mandrel
33	178342	Nut, Flg. Top Lock Cntr. 9/16
34	144945	Anchor, Spring Deck 46"
35	17490628	Screw, 3/8-16 x 1-3/4

KEY PART

NO.	NO.	DESCRIPTION
36	STD551037	Washer 13/32 x 13/16 x 16 Ga.
37	131494	Pulley, Idler, Flat
38	156086	Keeper, Belt, Idler
39	144917	Pulley, Idler, Driven
40	137273	Spring, Secondary 44/46/50 Vent
41	17060620	Screw 3/8-16 x 1-1/4
42	165723	Spacer, Retainer
43	144949	Arm, Idler Secondary
44	133943	Washer, Hardened
45	145059	Cover, Mandrel Deck
46	137729	Screw, Thdroll. 1/4-20 x 5/8
47	144959	V-Belt, Mower, Secondary
48	148763	V-Belt, Mower, Primary
49	STD541437	Nut, Crownlock 3/8-16 UNC
50	72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr. 5
52	156493	Pulley Idler 46" Prim. Drive
72	19131616	Washer 13/32 x 1 x 16 Ga.
116	137644	Bolt, Shoulder
117	133957	Gauge Wheel
118	73930600	Nut, Centerlock 3/8-16 UNC
119	19121414	Washer 3/8 x 7/8 x 14 Ga.
126	144948	Arm, Idler, Primary Deck 46"
127	146763	Pulley, Idler, V-Groove Dim. 4.25
--	166209	Replacement Mower Complete
--	143651	Mandrel Assembly (Includes Housing, Shaft and Shaft Hardware Only - Pulley Not Included)

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

TRACTOR -- MODEL NUMBER 917.274980
TRANSAXLE--MODEL NUMBER 331-3000

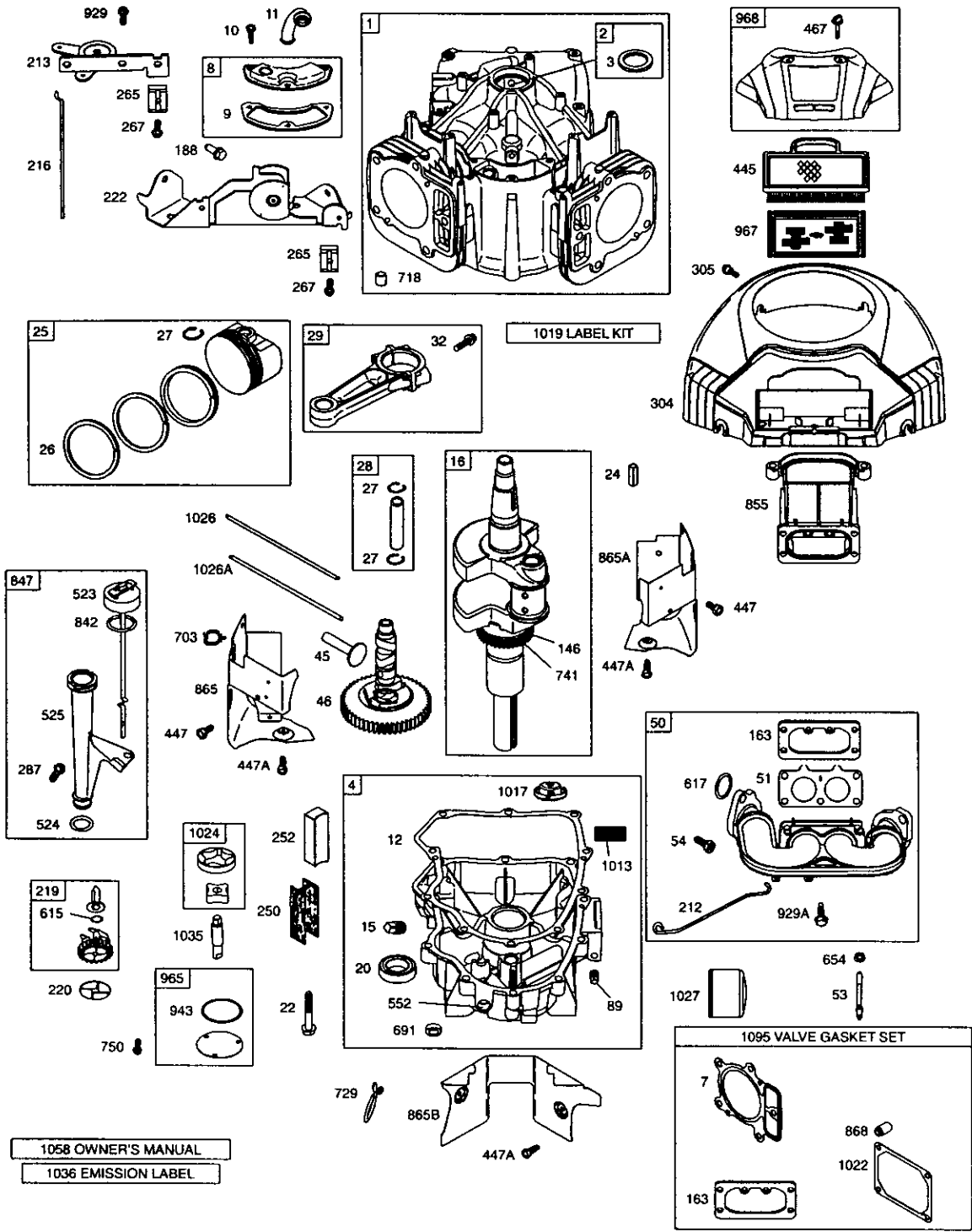


TRACTOR -- MODEL NUMBER 917.274980
TRANSAXLE--MODEL NUMBER 331-3000

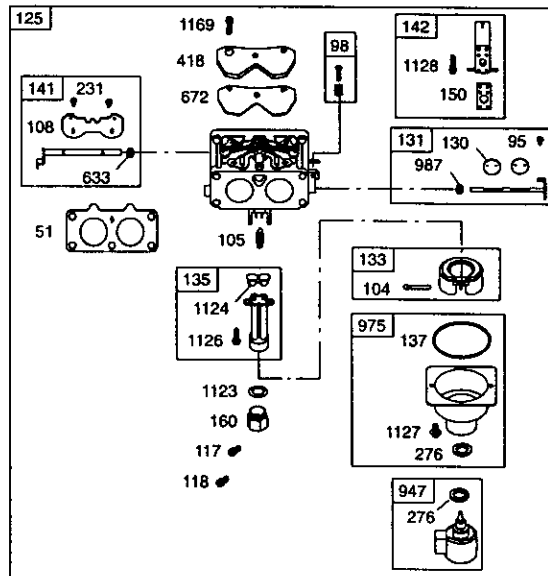
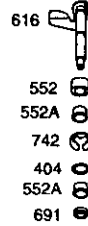
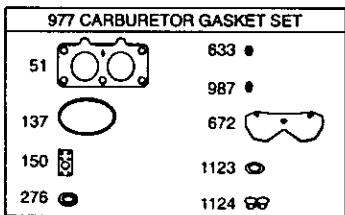
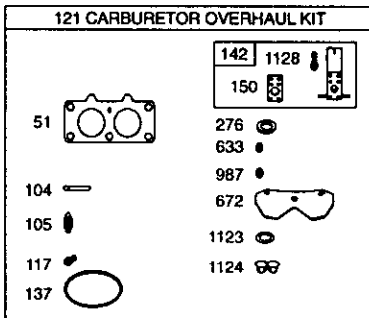
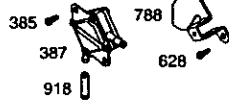
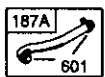
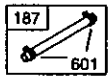
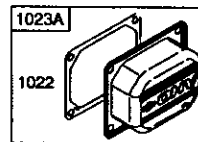
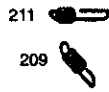
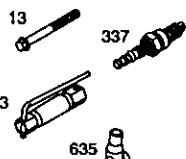
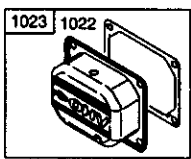
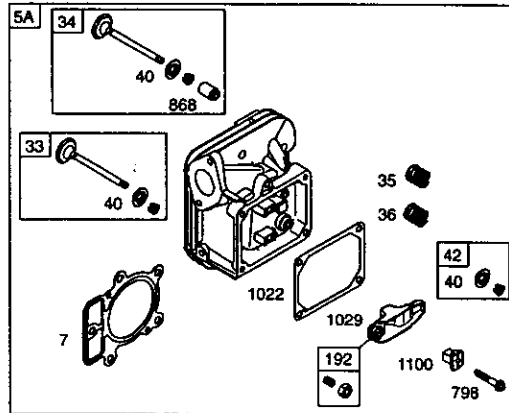
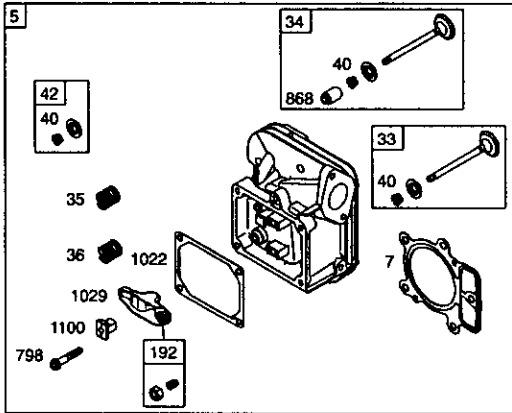
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	161122	Main Housing Assembly	74	169535	Ball Brg 6205-1
2	178317	R.H. Housing Assembly	75	161157	Seal 1"Id X 2.0472" X 0.375"
3	169522	Center Section Assembly			
4	161125	Spacer	76	161158	Shaft, Axle
5	142932	Seal-Lip	77	142884	Washer
6	142928	Wire Retaining Ring	79	178322	Gasket Material
7	142933	Retaining Ring	80	161159	Torx Head Screw, 5/16-18
8	142934	Ball Bearing	81	161160	Needle Bearing (Scet1412)
9	169523	Cradle Bearing	82	161161	Washer2
10	169524	Variable Swashplate	83	161162	Retaining Ring
11	150771	Thrust Bearing 30 X 52 X 13	84	161163	Lip Seal (0.875i.D.X1.3o.D.X0.25
12	161126	Input Shaft			
13	142978	Block Thrust Washer	85	161164	Brake Disk
14	142977	Arm - Trunnion	87	178323	Washer
15	196050	10cc Cylinder Block Assembly	88	178324	Screw 5/16-24
			89	178325	Bearing
21	169525	21cc Cylinder Block Assembly	90	178326	Spacer
			91	169536	Oring, 0.070 X 0.239
24	161127	Output (Motor) Shaft	92	178327	Screw
25	169526	Thrust Bearing 42 X 68 X 16	93	142969	Spring, Friction Pack
26	161128	Control Arm	94	142980	Spacer, Friction Pack
27	161129	Spacer	95	169537	Hex Lock Nut 5/16-24
28	161130	16t Pinion Gear	96	169538	Sleeve Bearing
29	169527	Capscrew, M6 X 1-22	97	150798	Oil
30	142941	Slot Guide	106	161166	Spacer, Trunnion
31	161132	Trunnion Arm	108	178328	Plug
32	161133	Trunnion Bushing	110	142918	Fitting-O Ring Ass'y
33	142940	Lip Seal	111	142917	Cap Vent Ass'y
34	178318	Arm Return	116	169539	Retaining Ring
35	178319	Arm Actuating	117	161168	Std Hdls Pin
36	169528	5/16-24 Stud	120	142883	Puck, Brake
37	142967	Puck, Friction	121	169540	Rib Neck Bolt, 2"
38	150787	Bypass Plate	122	178329	Brake Yoke
39	169529	Bypass Actuator	124	178330	Arm, Brake
40	142945	Lip Seal	125	142887	Pins, Brake
41	142952	Bypass Arm	126	161172	Lockwasher, 1/4"
42	142953	Retaining Ring	127	161173	Nut, 1/4-20
43	142965	Pin	128	142885	Nut, Castle
44	150797	Screw	129	142886	Cotter Pin
48	178320	Puck	130	161174	Spacer
50	178343	Screw-Self Tapping	131	142882	Puck Plate
51	169530	Lower Cover	132	169544	Rib Neck Bolt, 3" 1
52	169531	Gerotor Assembly	134	178331	Spring
53	144581	O-Ring	136	178332	Spring Extension
54	161139	Gerotor Cover	137	178333	Pin Spring
55	178321	Filter	138	178334	Bolt Self Tapping
56	169533	Charge Manifold	139	161176	Washer, 7/8od X 0.265id X 0.125 Thk
57	161142	Retainer, Motor Bearing			
58	161143	Pin, Carrier	141	178335	Spring Brake
59	161144	15t Planet Gear	144	169545	O Ring, 2.864 Id X 0.070 Thk
60	161145	7t Spur Gear			
61	161146	21t Sun Gear	145	169546	Spring, Relief
62	161147	Planet Thrust Plate	146	169547	Ball, 7/16
63	161148	51t Ring Gear	151	161181	Comp. Spring, Brake Anti-Drag
64	161149	Planetary Carrier			
65	161150	Miter Gear, Diff. (Splined)	152	178336	Brake Pull Rod
66	161151	Miter Gear, Diff.	153	142914	Plug, Straight Thread
67	161152	Shaft, Differential	155	178337	Kit Fan
68	161153	Diff. Thrust Plate	157	169548	Screw O-Ring
69	169534	Flange Bearing	180	169549	Manifold Kit
70	161154	Washer	203	178338	Kit Seal
71	161155	Washer	900	166773	Transaxle, complete
73	161156	Hex Jam Nut, 5/8-18			

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

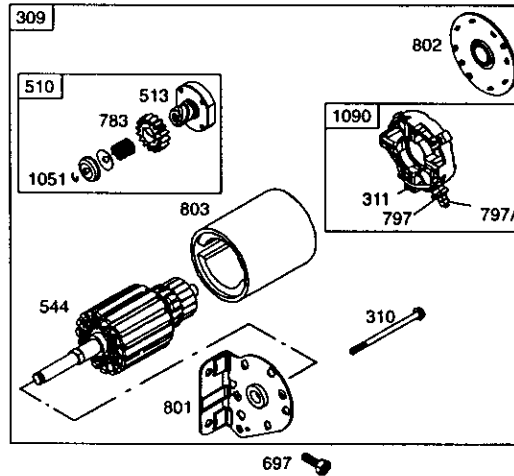
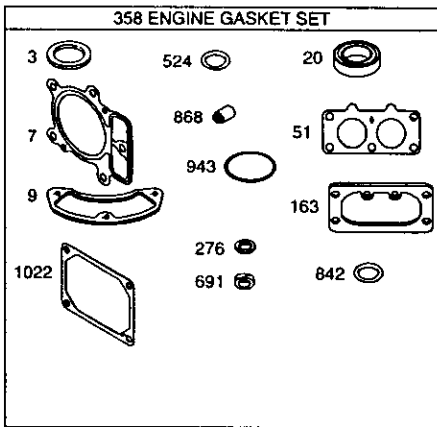
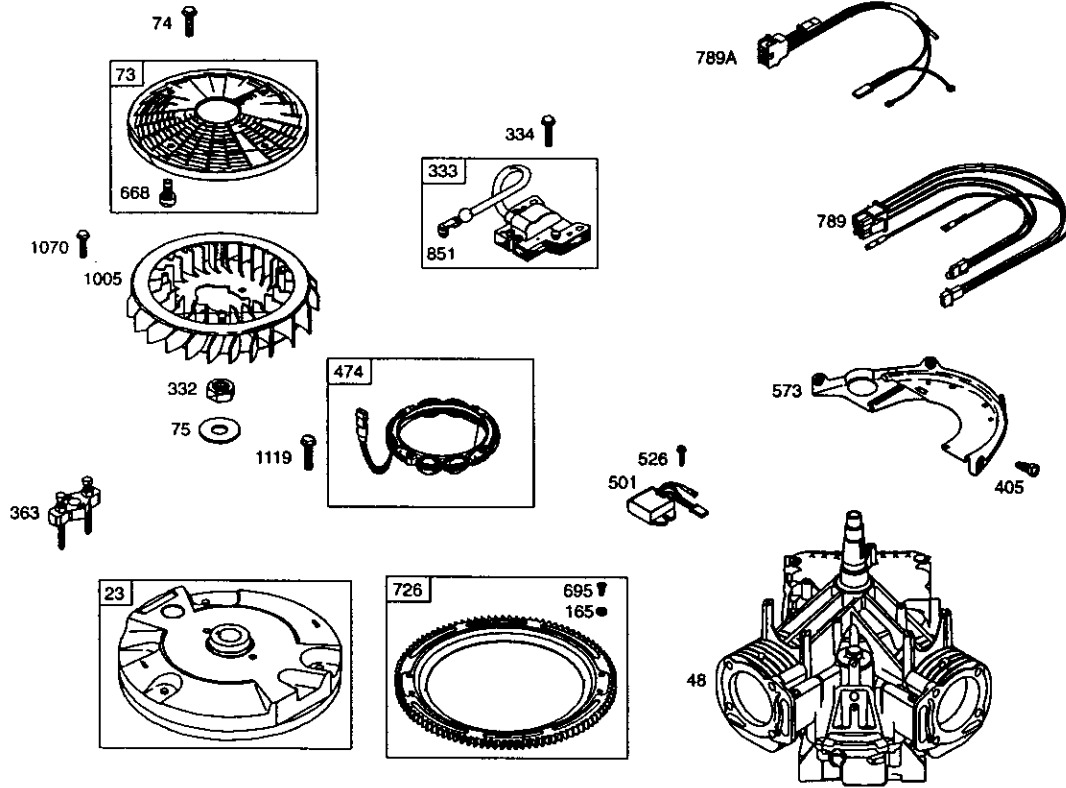
**TRACTOR -- MODEL NUMBER 917.274980
BRIGGS & STRATTON ENGINE-MODEL NUMBER 446777, TYPE NUMBER 0177-E1**



TRACTOR -- MODEL NUMBER 917.274980
BRIGGS & STRATTON ENGINE-MODEL NUMBER 446777, TYPE NUMBER 0177-E1



**TRACTOR -- MODEL NUMBER 917.274980
BRIGGS & STRATTON ENGINE-MODEL NUMBER 446777, TYPE NUMBER 0177-E1**



TRACTOR -- MODEL NUMBER 917.274980
BRIGGS & STRATTON ENGINE-MODEL NUMBER 446777, TYPE NUMBER 0177-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	694001	Cylinder Assembly	130	690993	Valve-Throttle
2	499585	Kit-Bushing/Seal (Magneto Side)	131	499805	Kit-Throttle Shaft
3	391086	• Seal-Oil (Magneto Side)	133	499806	Float-Carburetor
4	690069	Sump-Engine	135	499803	Tube-Fuel Transfer
5	697580	Head-Cylinder (Cylinder 1)	137	690994	Ø‡ Gasket-Float Bowl
5A	697581	Head-Cylinder (Cylinder 2)	141	499807	Kit-Choke Shaft
7	693997	*+ Gasket-Cylinder Head	142	499808	Ø Nozzle-Carburetor
8	499601	Breather Assembly	146	690979	Key-Timing
9	690937	• Gasket-Breather	150	690995	Ø‡ Gasket-Nozzle
10	690960	Screw (Breather Assembly)	160	690996	Retainer-Solenoid
11	690942	Tube-Breather	163	691001	*+ Gasket-Air Cleaner
12	697227	Gasket-Crankcase	165	693148	Nut (Ring Gear)
13	690360	Screw (Cylinder Head)	187	691050	Line-Fuel (Cut to Required Length)
15	690946	Plug-Oil Drain	187A	697712	Line-Fuel (Molded)
16	691047	Crankshaft	188	690960	Screw (Control Bracket)
20	690947	• Seal-Oil (PTO Side)	192	690083	Adjuster-Rocker Arm
22	694966	Screw (Engine Sump)	209	697674	Spring-Governor
23	691053	Flywheel	211	691019	Spring-Governed Idle
24	222698	Key-Flywheel	212	695238	Link-Throttle
25	697679	Piston Assembly (Standard)	213	691021	Bracket-Choke Control
25	697680	Piston Assembly (.010" Oversize)	216	691022	Link-Choke
25	697681	Piston Assembly (.020" Oversize)	219	696376	Gear-Governor
25	697682	Piston Assembly (.030" Oversize)	220	690412	Washer (Governor Lever)
26	697683	Ring Set (Standard)	222	691023	Bracket-Control
26	697684	Ring Set (.010" Oversize)	227	691048	Lever-Governor Control
26	697685	Ring Set (.020" Oversize)	231	690718	Screw (Choke Valve)
26	697686	Ring Set (.030" Oversize)	240	695666	Filter-Fuel
27	690975	Lock-Piston Pin	250	690957	Retainer-Breather
28	690229	Pin-Piston	252	690956	Collector-Oil
29	499583	Rod-Connecting	265	691024	Clamp-Casing
32	690976	Screw (Connecting Rod)	267	695134	Screw (Casing Clamp)
33	697576	Valve-Exhaust	276	690997	Ø‡ Washer-Sealing
34	499597	Valve-Intake	287	690960	Screw (Dipstick Tube)
35	690963	Spring-Valve (Intake)	304	695277	Housing-Blower
36	690963	Spring-Valve (Exhaust)	305	691005	Screw (Blower Housing)
40	690964	Retainer-Valve	309	691262	Motor-Starter
42	499586	Keeper-Valve	310	691263	Bolt-Starter Motor
45	690977	Tappet-Valve	311	497608	Brush Set
46	690978	Camshaft	332	691059	Nut (Flywheel)
48	692714	Short Block (446777-0027-E2 Replacement Engine)	333	691060	Armature-Magneto
50	695241	Manifold-Intake	334	691061	Screw (Magneto Armature)
51	690950	Ø‡ Gasket-Intake	337	491055	Spark Plug
53	690951	Stud (Carburetor)	358	694012	Set-Engine Gasket
54	695240	Screw (Intake Manifold)	363	691062	Flywheel Puller
73	691055	Screen-Rotating	383	690966	Wrench-Spark Plug
74	691057	Screw (Rotating Screen)	385	690960	Screw (Fuel Pump)
75	691056	Washer (Flywheel)	387	808656	Pump-Fuel
89	690283	Plug-Oil	404	690442	Washer (Governor Crank)
95	690718	Screw (Throttle Valve)	405	690960	Screw (Back Plate)
98	499802	Kit-Idle Speed	418	690999	Plate-Carburetor
104	690984	Ø Pin-Float Hinge	445	695667	Filter-Air Cleaner Cartridge
105	690985	Ø Valve-Float Needle	447	691003	Screw (Air Guide Cover)
108	690986	Valve-Choke			RPM Settings:Low Speed: 1900-2100 High Speed: 3000-3200
117	690232	Ø Jet-Main (Standard)	•		Included in Engine Gasket Set, Key. No. 358
118	690989	Jet-Main (High Altitude)	Ø		Included in Carburetor Overhaul Kit, Key. No. 121
121	499811	Kit-Carburetor Overhaul	‡		Included in Carburetor Gasket Set, Key. No. 977
125	499804	Carburetor	+		Included in Valve Gasket Set, Key. No. 1095

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

TRACTOR -- MODEL NUMBER 917.274980

BRIGGS & STRATTON ENGINE-MODEL NUMBER 446777, TYPE NUMBER 0177-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
447A	690960	Screw (Air Guide Cover)	855	691011	Adapter-Air
467	691008	Knob-Air Cleaner	865	691012	Cover-Air Guide
474	696458	Alternator	865A	691014	Cover-Air Guide
501	691185	Regulator	865B	691015	Cover-Air Guide
505	691029	Nut (Governor Control Lever)	868	690968	*+ Seal-Valve
510	497606	Drive-Starter	914	691127	Screw (Rocker Cover)
513	692024	Clutch-Drive	918	694000	Hose-Vacuum
523	691036	Dipstick	929	695239	Screw (Choke Control Bracket)
524	691032	• Seal-O Ring (Dipstick Tube)	929A	691003	Screw (Choke Control Bracket)
525	691037	Tube-Dipstick			
526	690960	Screw (Regulator)			
544		Armature-Starter (Service with 691262 Starter Motor)	943	690589	• Seal-O Ring (Oil Pump Cover)
			947	499809	Solenoid-Fuel
552	690552	Bushing-Governor Crank	965	499613	Cover-Oil Pump
552A	690553	Bushing-Governor Crank	967	273638	Filter-Pre Cleaner
562	690311	Bolt (Governor Control Lever)	968	499788	Cover-Air Cleaner
573	691009	Plate-Back	975	499810	Bowl-Float
601	691038	Clamp-Hose	977	499812	Gasket Set-Carburetor
615	690317	Retainer-Governor Shaft	987	691000	∅‡ Seal-Throttle Shaft
616	691045	Crank-Governor	1005	499603	Fan-Flywheel
617	691917	Seal-O Ring (Intake Manifold)	1013	690954	Nipple-Oil Filter
628	690960	Screw (Fuel Pump Bracket)	1017	690770	Screen-Oil Pump
633	690998	∅‡ Seal-Choke/Throttle Shaft	1019	690103	Kit-Label
635	66538	Boot-Sparkplug	1022	690971	*+ Gasket-Rocker Cover
654	690958	Nut (Carburetor)	1023	499599	Cover-Rocker (Cylinder 1)
668	691215	Spacer	1023A	499600	Cover-Rocker (Cylinder 2)
672	690234	∅‡ Gasket-Carburetor Plate	1024	499054	Pump-Oil
691	690657	• Seal-Governor Shaft	1026	690981	Rod-Push (Steel)
695	693149	Screw (Ring Gear)	1026A	690982	Rod-Push (Aluminum)
697	690372	Screw (Drive Cap)	1027	696854	Filter-Oil
703	691010	Clip	1029	690972	Arm-Rocker
718	690959	Pin-Locating	1035	691042	Shaft-Pump
726	499612	Gear-Ring	1036	695704	Label-Emission
729	694123	Clip-Wire	1051	691265	Ring-Retaining
741	690980	Gear-Timing	1058	274794	Owner's Manual
742	690328	Retainer-E Ring	1070	691058	Screw (Flywheel Fan)
750	696999	Screw (Oil Pump Cover)	1090	691293	Retainer-Brush
783	693058	Gear-Pinion	1095	694013	Gasket Set-Valve
788	691039	Bracket-Fuel Pump	1100	690973	Pivot-Rocker Arm
789	695050	Harness-Wiring	1119	691183	Screw (Alternator)
789A	696576	Harness-Wiring	1123	690987	∅ ‡ Seal-O Ring (Solenoid Retainer)
797	691029	Nut (Brush Retainer)			
797A	693167	Nut (Brush Retainer)	1124	690988	∅ ‡ Seal-O Ring (Fuel Transfer Tube)
798	690967	Screw (Rocker Arm)			
801	691283	Cap-Drive	1126	690991	Screw (Fuel Transfer Tube)
802	691286	Cap-End	1127	690992	Screw (Float Bowl)
803		Housing-Starter (Service with 691262 Starter Motor)	1128	690990	∅ Screw (Carburetor Nozzle)
			1169	693140	Screw (Carburetor Cover Plate)
842	691031	• Seal-O Ring (Dipstick Tube)			RPM Settings: Low Speed: 1900-2100
847	499602	Dipstick/Tube Assembly			High Speed: 3000-3200
851	493880	Terminal-Sparkplug			

- Included in Engine Gasket Set, Key. No. 358
- ∅ Included in Carburetor Overhaul Kit, Key. No. 121
- ‡ Included in Carburetor Gasket Set, Key. No. 977
- + Included in Valve Gasket Set, Key. No. 1095

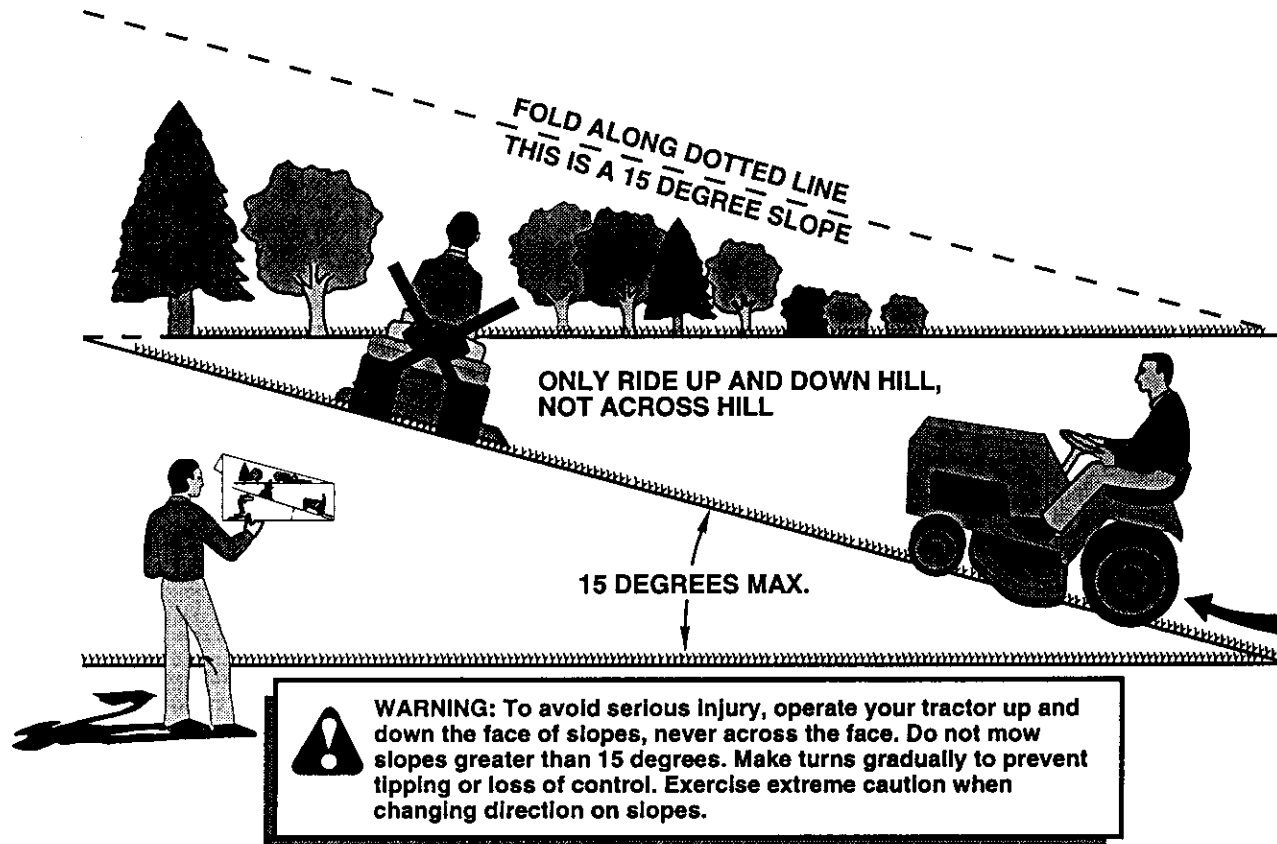
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION

55



WARNING: To avoid serious injury, operate your tractor up and down the face of slopes, never across the face. Do not mow slopes greater than 15 degrees. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

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® Anytime, day or night
(1-800-469-4663) (U.S.A. and Canada)
www.sears.com 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 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-HOGARSM
(1-888-784-6427)

Au Canada pour service en français:

1-800-LE-FOYER^{MC}
(1-800-533-6937)
www.sears.ca

SEARS

© Sears, Roebuck and Co.

® Registered Trademark / TM Trademark / SM Service Mark of Sears, Roebuck and Co.

® Marca Registrada / TM Marca de Fábrica / SM Marca de Servicio de Sears, Roebuck and Co.

^{MC} Marque de commerce / ^{MD} Marque déposée de Sears, Roebuck and Co.