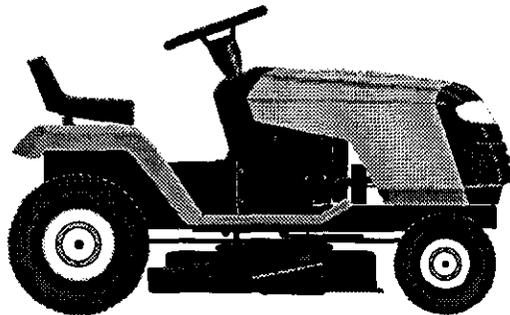


Owner's Manual



**14.5 HP
ELECTRIC START
42" MOWER
6 SPEED TRANSAXLE
LAWN TRACTOR**

Model No.
917.271531



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts



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

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS

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 found to be defective in material or workmanship. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- 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 the 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 thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes. A product is "used for commercial purpose" if it is used for any purpose other than single family household dwellings or in usage where profit is made.

LIMITED 90 DAY 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. Warranty service is available free of charge by returning your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE IN-HOME WARRANTY SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME

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

Sears, Roebuck and Co., D/817 WA, 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.

I. GENERAL OPERATION

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

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

SAFETY RULES

III. CHILDREN

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

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

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.

- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.

SAFETY RULES

- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

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

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	1.25 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF-SJ):	SAE 30(ABOVE 32°F) SAE 5W-30 (Below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
GROUND SPEED (MPH):	FORWARD: 1ST 1.1 2ND 1.4 3RD 2.2 4TH 3.4 5TH 4.3 6TH 5.5 REVERSE: 1.7
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 25 MIN. CCA: 190 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.

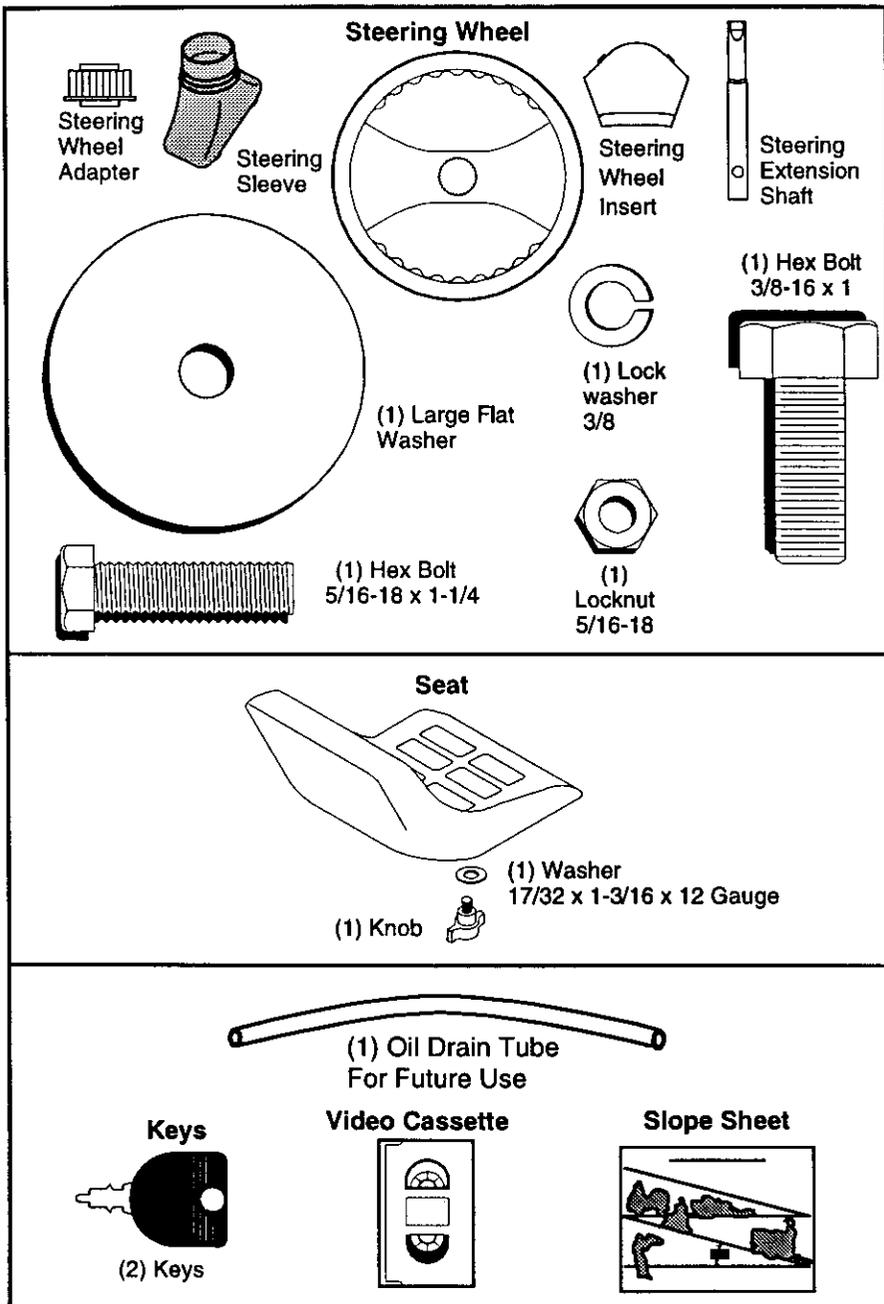
CUSTOMER RESPONSIBILITIES

- 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).

UNASSEMBLED PARTS



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench (1) Pliers
- (1) 1/2" wrench (1) Utility knife
- (1) Tire pressure gauge

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 cartons 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.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

1. Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs torque.

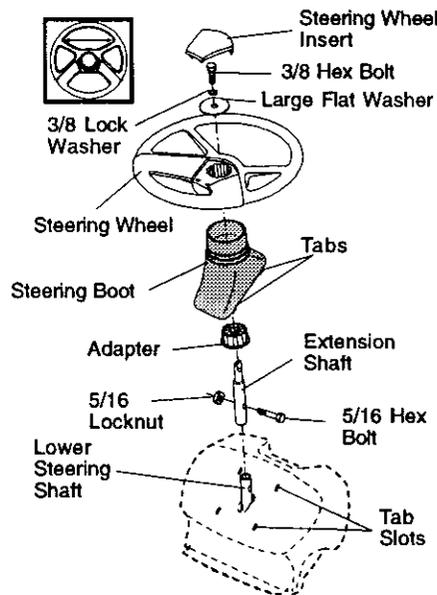
2. Place tabs of steering boot over tab slots in dash and push down to secure.

INSTALL STEERING WHEEL

3. Position front wheels of the tractor so they are pointing straight forward.
4. Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.
5. Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.

6. Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
7. Snap steering wheel insert into center of steering wheel.
8. Remove protective materials from tractor hood and grill.

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

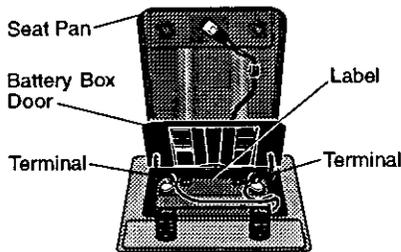


HOW TO SET UP YOUR TRACTOR

CHECK BATTERY

1. Lift seat pan to raised position and open battery box door.

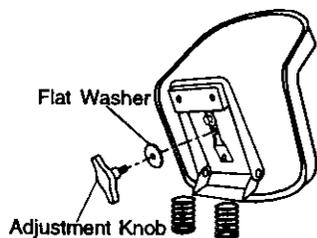
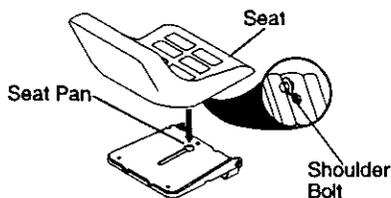
NOTE: If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

1. Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
2. Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
3. Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
4. Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
5. Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
6. Lower seat into operating position and sit in seat.
7. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
8. Get off seat without moving its adjusted position.
9. Raise seat and tighten adjustment knob securely.



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

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

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

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

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

1. Be sure all the above assembly steps have been completed.
2. Check engine oil level and fill fuel tank with gasoline.
3. Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
4. Place gear shift lever in neutral (N) position.
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. Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear.
8. Slowly release clutch/brake pedal and slowly drive tractor off skid.
9. Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.
10. Turn ignition key to "OFF" 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 and enjoy your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

Please review the following checklist:

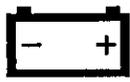
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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

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

OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



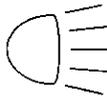
ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



MOWER LIFT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR



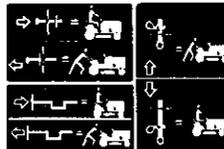
(SEE SAFETY RULES SECTION)



SLOPE HAZARDS



DANGER, KEEP HANDS AND FEET AWAY

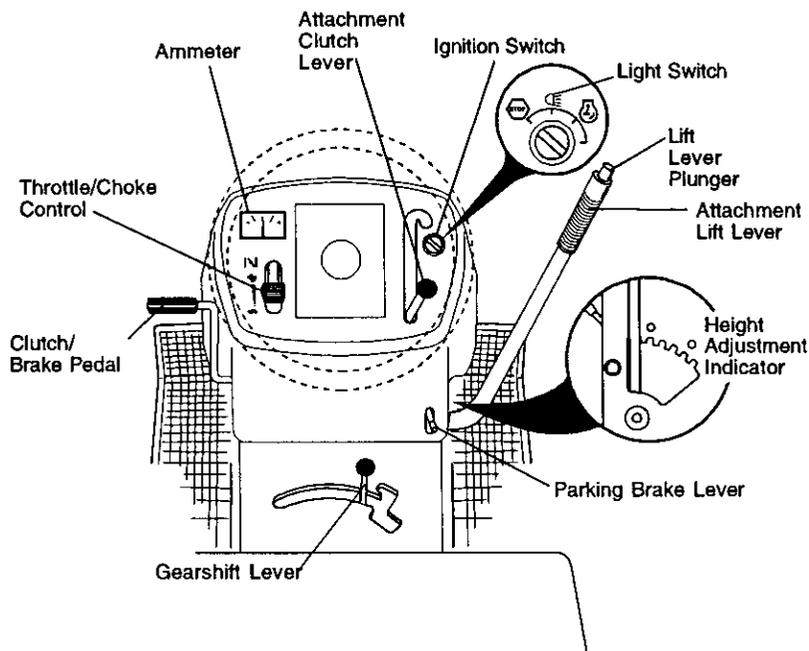


FREE WHEEL
(Automatic Models only)

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 various controls and adjustments. Save this manual for future reference.



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

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

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

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

GEARSHIFT LEVER - Selects the speed and direction of tractor.

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

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

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

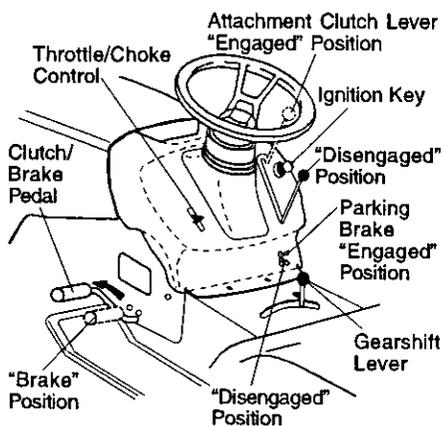


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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



STOPPING

MOWER BLADES -

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

GROUND DRIVE -

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

ENGINE -

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

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

- Never use choke to stop engine.

IMPORTANT: Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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

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

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO MOVE FORWARD AND BACKWARD

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

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

IMPORTANT: Bring tractor to a complete stop before shifting or changing gears. Failure to do so will shorten the useful life of your transaxle.

TO ADJUST MOWER CUTTING HEIGHT

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

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

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

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

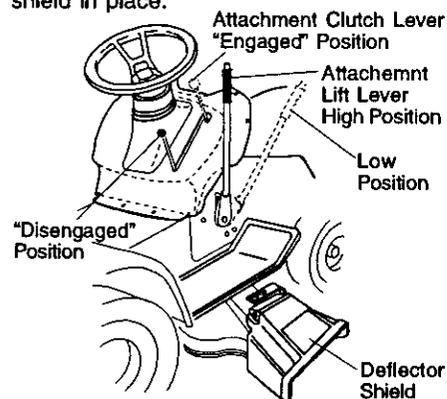
TO OPERATE MOWER

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

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

To stop mower blades - disengage attachment clutch control.

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



TO OPERATE ON HILLS

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

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

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

TO TRANSPORT

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

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

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

IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

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

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

TO START ENGINE

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

1. Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
2. Place gear shift lever in neutral (N) position.
3. Move attachment clutch to "DISENGAGED" position.
4. Move throttle control to choke position.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

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

MOWING TIPS

- 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 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		SERVICE DATES					
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	EVERY 4 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	BEFORE STORAGE
T R A C T O R	Check Brakes Operation	✓	✓				
	Check Tire Pressure	✓	✓				
	Check Operator Presence and Interlock Systems	✓					
	Check for Loose Fasteners	✓			✓ ⁷	✓	
	Sharpen/Replace Mower Blades			✓ ⁴			
	Lubrication Chart			✓		✓	
	Check Battery Level			✓ ⁶			
	Clean Battery and Terminals			✓		✓	
	Check Transaxle Cooling			✓			
	Adjust Blade Belt(s) Tension				✓ ⁵		
Adjust Motion Drive Belt(s) Tension				✓ ³			
E N G I N E	Check Engine Oil Level	✓	✓				
	Change Engine Oil			✓ ^{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 - If equipped with oil filter, change oil every 50 hours.
 4 - Replace blades more often when mowing in sandy soil.
 5 - If equipped with adjustable system.
 6 - Not required if equipped with maintenance-free battery.
 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum. 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.

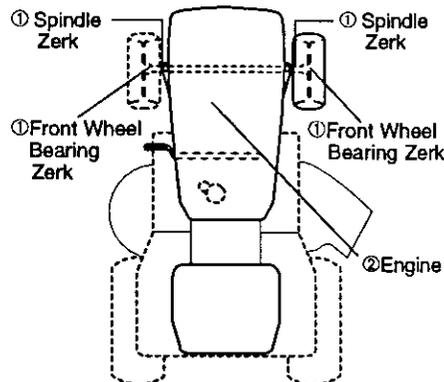
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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



- ①SAE OR 10W30 MOTOR OIL
 ②REFER TO MAINTENANCE "ENGINE" SECTION

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

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

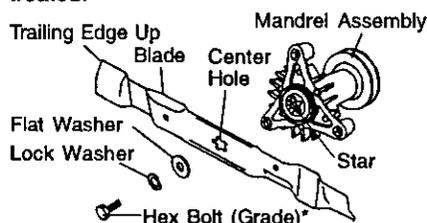
BLADE REMOVAL

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

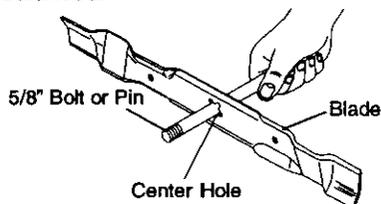
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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. Open battery box door.
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).

V-BELTS

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

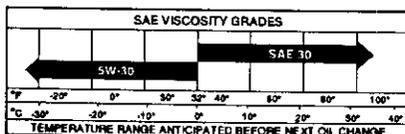
TRANSAXLE COOLING

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

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF-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.

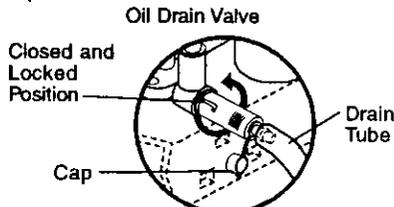
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

TO CHANGE ENGINE OIL

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 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 to 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. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



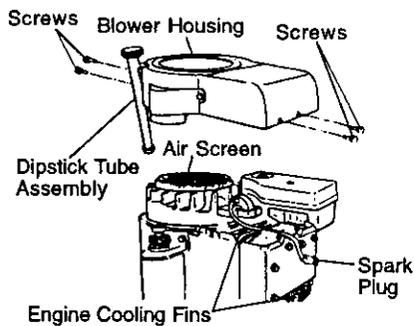
CLEAN AIR SCREEN

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

ENGINE COOLING FINS

Remove any dust, dirt or oil from engine cooling fins to prevent engine damage from overheating.

1. Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
2. Cover oil fill opening to prevent entry of dirt.
3. Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
4. To reassemble, reverse above procedure.



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 knob(s) and cover.

TO SERVICE PRE-CLEANER

2. Slide foam pre-cleaner off cartridge.
3. Wash it in liquid detergent and water.
4. Squeeze it dry in a clean cloth.
5. 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.

6. Reinstall pre-cleaner over cartridge.
7. Reinstall cover and secure with knob(s).

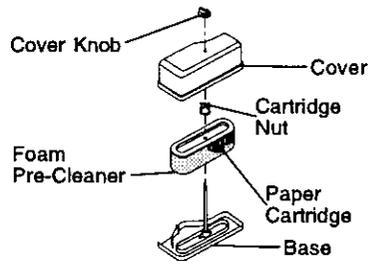
TO SERVICE CARTRIDGE

1. Remove cartridge nut.
2. Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.
3. Clean cartridge by tapping gently on flat surface.

NOTE: If very dirty or damaged, replace cartridge.

4. Reinstall cartridge, nut, pre-cleaner, cover and secure with knob(s).

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



MUFFLER

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

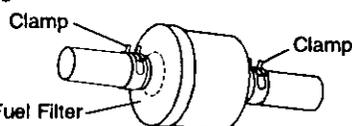
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

⚠ CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

TRACTOR

TO REMOVE MOWER

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

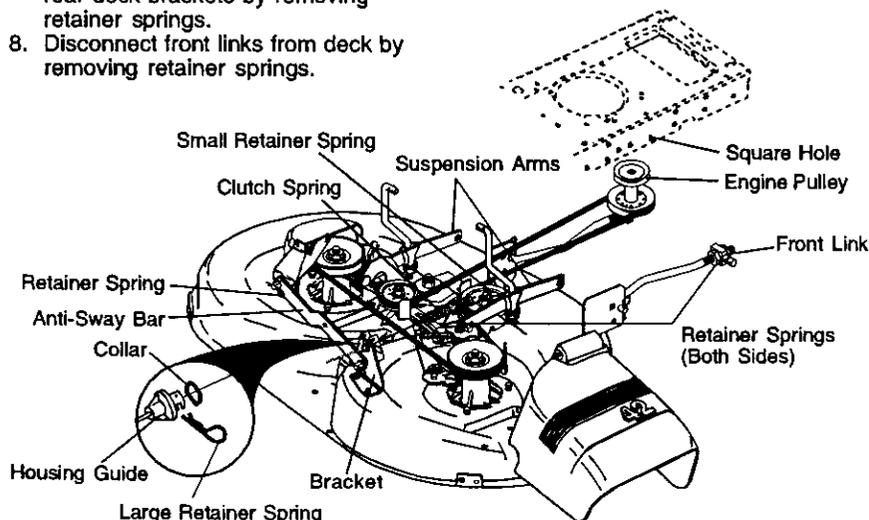
1. Place attachment clutch in "DISENGAGED" position.
2. Move attachment lift lever forward to lower mower to its lowest position.
3. Roll belt off engine pulley.
4. Remove small retainer spring, and lift clutch spring off pulley bolt.
5. Remove large retainer spring, slide collar off and push housing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

9. Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

TO INSTALL MOWER

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



TO LEVEL MOWER HOUSING

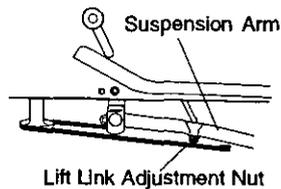
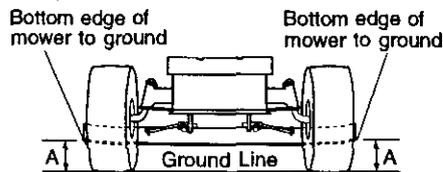
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

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

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

- Recheck measurements after adjusting.



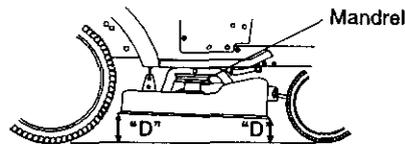
FRONT-TO-BACK ADJUSTMENT

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

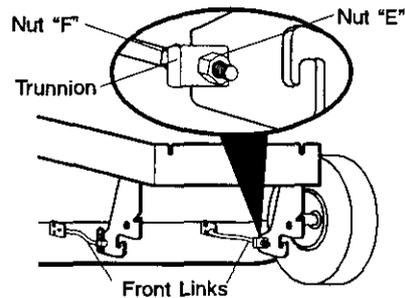
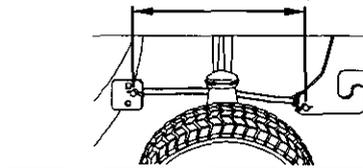
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

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



Both Front Links Should be Equal in Length



TO REPLACE MOWER BLADE DRIVE BELT

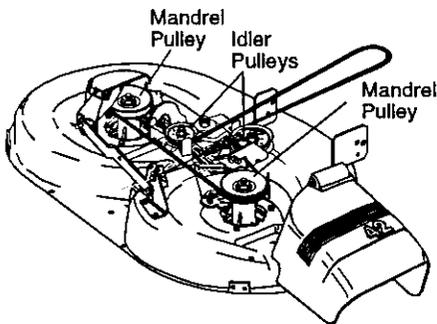
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

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

BELT INSTALLATION -

4. Install new belt in reverse order of removal.
5. Make sure belt is in all pulley grooves and inside all belt guides.
6. Install mower in reverse order of removal instructions.



TO ADJUST BRAKE

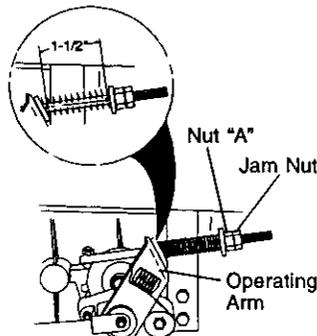
Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, then brake must be adjusted.

1. Depress clutch/brake pedal and engage parking brake.
2. Measure distance between brake operating arm and nut "A" on brake rod.
3. If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".

4. Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact a Sears or other qualified service center.

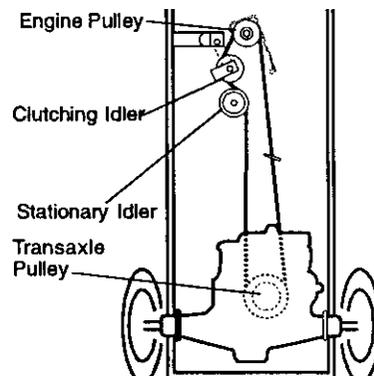
With Parking Brake "Engaged"



TO REPLACE MOTION DRIVE BELT

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

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



TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact a Sears or other qualified service center.

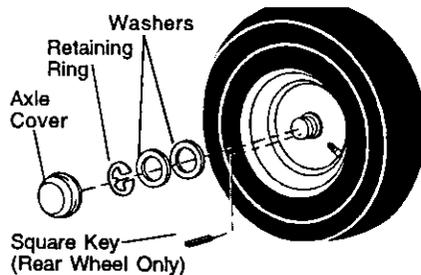
TO REMOVE WHEEL FOR REPAIRS

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

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

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

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



TO START ENGINE WITH A WEAK BATTERY

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

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

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

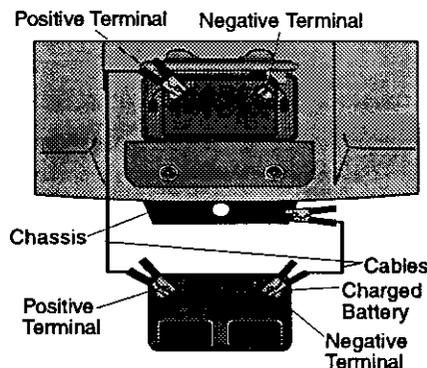
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

1. Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
3. Connect the other end of the BLACK cable 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.

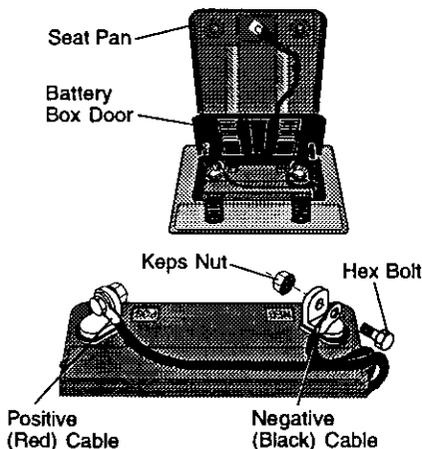


REPLACING BATTERY

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



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.

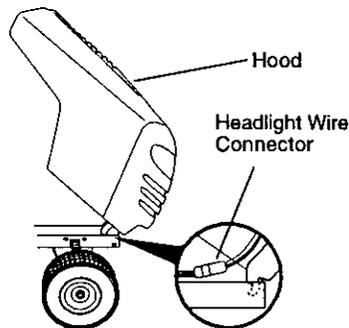
- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 20 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. To replace, reverse above procedure.



ENGINE

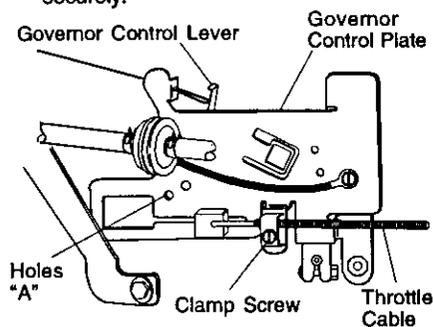
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

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

1. With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.

2. Check that holes "A" in governor control lever and hole in governor plate line-up. If holes "A" are not aligned, loosen clamp screw and move throttle cable until holes are aligned. Tighten clamp screw securely.



TO ADJUST CARBURETOR

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

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows: In general, turning idle mixture valve in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the idle mixture valve out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture. **IMPORTANT:** Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING -

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

FINAL SETTING -

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

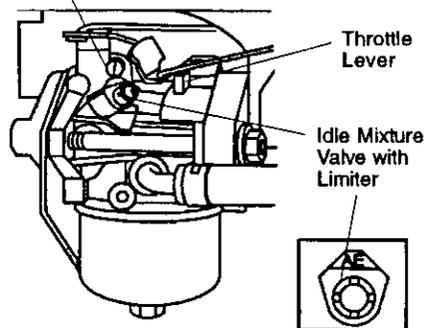
ACCELERATION TEST -

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

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

IMPORTANT: Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact a Sears or other qualified service center, which has proper equipment and experience to make any necessary adjustments.

Idle Speed Screw



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,

experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of and 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

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. 	<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 Adjustments section. 10. Contact a Sears or other qualified service center.
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 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

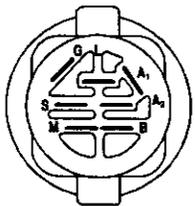
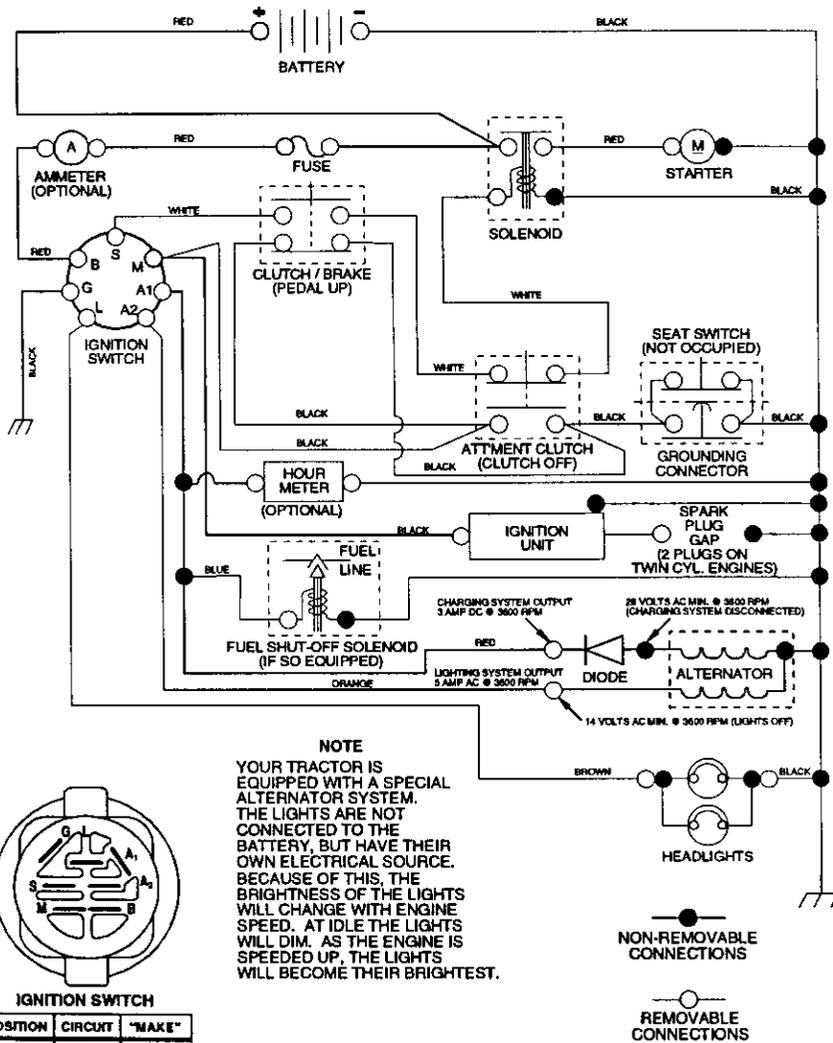
PROBLEM	CAUSE	CORRECTION
Loss of power	<ol style="list-style-type: none"> 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty 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 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. Replace blade mandrel. 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 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 holes from buildup 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. Replace blade mandrel. 5. Clean around mandrels to open vent holes.

TROUBLESHOOTING CHART

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. Replace blade mandrel.
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.
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 917.271531

SCHEMATIC



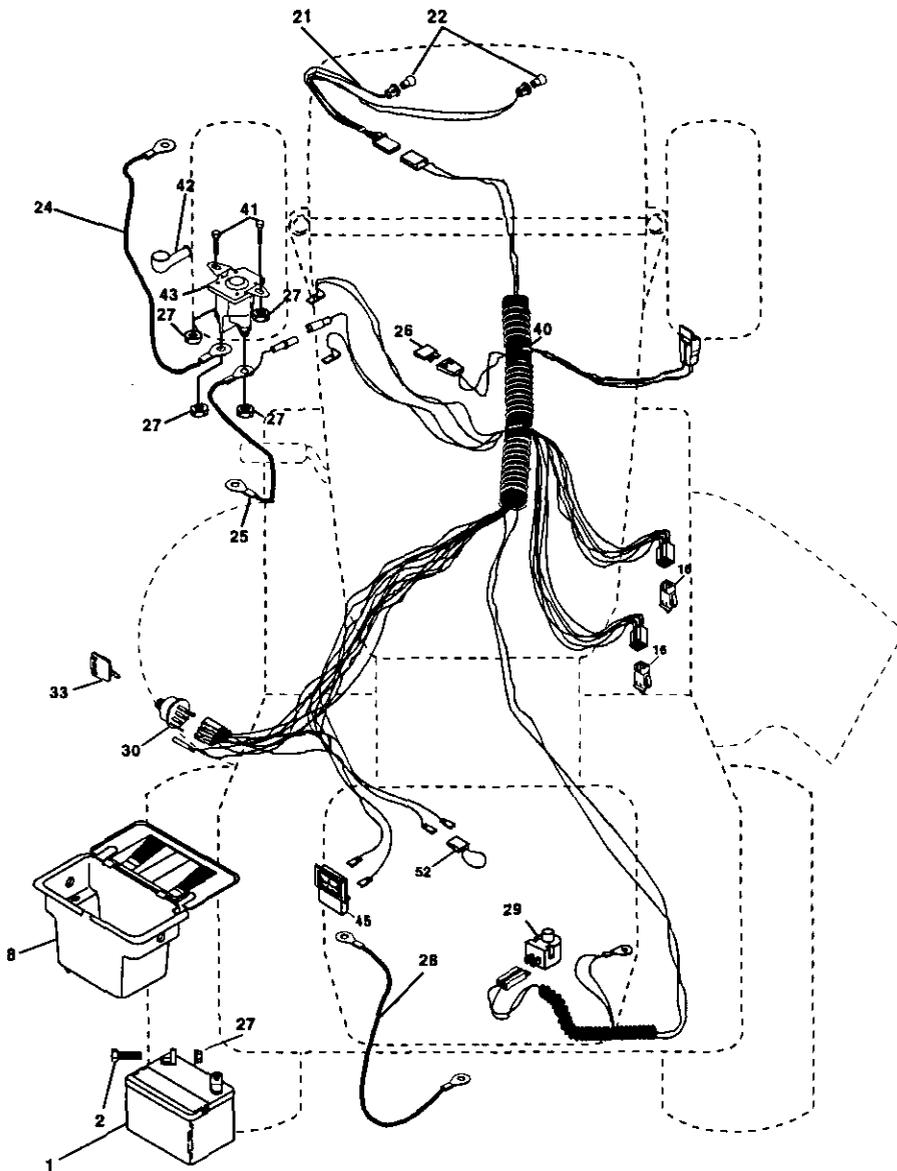
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

REPAIR PARTS

TRACTOR – MODEL NUMBER 917.271531

ELECTRICAL



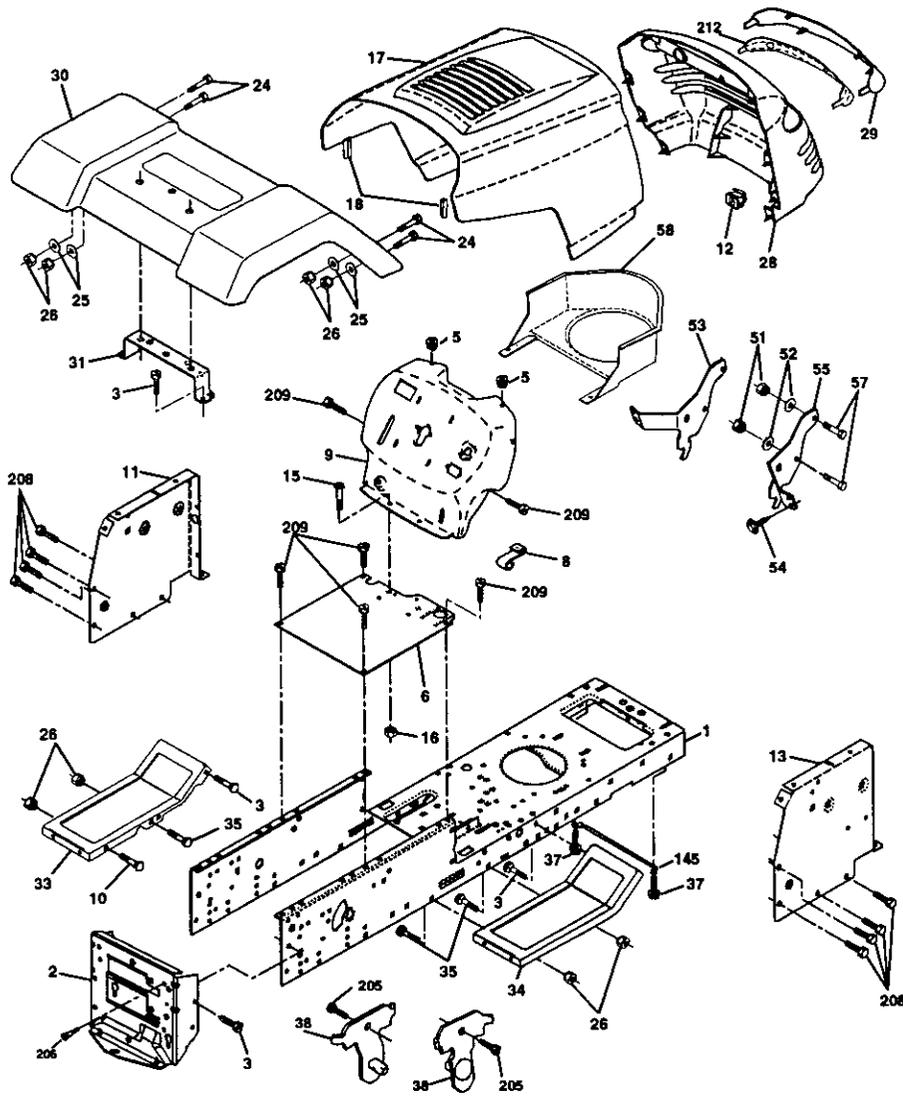
ELECTRICAL

TRACTOR -- MODEL NUMBER 917.271531

KEY PART NO.	NO.	DESCRIPTION
1	144925	Battery 12 Volt 25 AMP
2	74760412	Bolt Hex Hd 1/4-20unc X 3/4
8	156417	Case Battery
16	153664	Switch Interlock Push-In
21	166181	Harness Socket Light W/4152J
22	4152J	Bulb Light #1156
24	4799J	Cable Battery 6ga 11" red
25	146147	Cable Battery 6 Ga W/16 Wir red
26	175158	Fuse 20 AMP
27	73510400	Nut Keps Hex 1/4-20 Unc
28	4207J	Cable Ground 6ga 12" black
29	121305X	Switch Plunger Nc Gray
30	175566	Switch Ign Delta Push-In
33	140403	Key Ign Molded Craftsman, Delta
40	178437	Harness Ign
41	71110408	Bolt Blk Hex 1/4-20unc x 1/2
42	131563	Cover Terminal Red
43	178861	Solenoid
45	121433X	Ammeter Rectangular 6 AMP
52	141940	Protection Wire Loop

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

TRACTOR – MODEL NUMBER 917.271531
CHASSIS AND ENCLOSURES



**TRACTOR -- MODEL NUMBER 917.271531
CHASSIS AND ENCLOSURES**

KEY PART NO.	NO.	DESCRIPTION
1	174620	Chassis Lt Stamping
2	176554	Drawbar
3	17060612	Screw 3/8-16 x 3/4
5	155272	BumperHood/Dash
6	174643X010	Saddle SLKSCRE FLT SDL
8	126471X	Clip Insulator .406 Mtg Hole
9	168348X010	Dash Silkacr Plm Mech Sym
10	72140608	Bolt RdHd Sqnk. 3/8-16 x 1
11	155927	Panel Asm. Dash Lh
12	145660	Clip Tinnerman Grille P/L
13	172107X010	Panel Dash Rn
15	74180512	Screw Mach Trhd 5/16-18unc x 3/4
16	73510500	Nu Keps 5/16-18unc
17	159639X558	Hood Pnt Steel Private Label
18	126938X	BumperHood
24	74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5
25	19131312	Washer 13/32 x 13/16 x 12 Ga.
26	73800600	Nut Lock Hex w/lns 3/8-16 Unc
28	140434	Grill/Lens Asm
29	140273X599	Lens Grille Private label
30	169465X558	Fender Pnt
31	136619	Bracket Fender Support
33	145244X558	Footrest Pnt. Lh
34	145243X558	Footrest Pnt. Rh
35	72110606	Bolt RdHd Sht. Sqnk. 3/8-16 x 3/4
37	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
38	175710	Bracket Asm. Pivot Mower Rear
51	73800400	Nut Lock Hex W/lns. 1/4-20
52	19091416	Washer 9/32 x 7/8 x 16 Ga.
53	144697	Bracket Grille LH
54	161464	Screw Hex Wshd #8-18 x 7/8
55	144696	Bracket, Grille RH
57	74780412	Bolt Fin Hex 1/4-20 x 3/4
58	150127	Air Duct Private Label LT Engine
145	156524	Rod Pivot Chassis /Hood
205	17490608	Screw Thdrol 3/8-16 x 1/2
206	170165	Bolt Shoulder 5/16-18 TT
208	17670608	Screw Thdrol. 3/8-16 x 1/2
209	17000612	Screw Hex Wsh Thdrol 3/8-16 BL
212	156229	Insert Lens Reflective
--	5479J	Plug Button Blk .359 Dia. Choke

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

TRACTOR -- MODEL NUMBER 917.271531

GROUND DRIVE

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	----- Transaxle (See Breakdown) Dana 4360-140	47	127783 Pulley Idler V Groove Plastic
2	146682 Spring Return Brake T/a Zinc	48	154407 Bellcrank Clutch Gm Dry Stl
3	123666X Pulley Transaxle 18/20" tires	49	123205X Retainer Belt Style Spring
4	12000028 Ring Retainer # 5100-62	50	STD523715 Bolt Hex Hd 3/8-16unc x 1-1/2
5	121520X Strap Torque 30 Degrees	51	STD541437 Nut Crownlock 3/8-16 UNC
6	17060512 Screw 5/16-18 x 3/4	52	STD541431 Nut Crown Lock 5/16-18
7	162240 Bracket Saddle Shift T/a	53	105710X Link Clutch 7 66
8	131679 Rod Shf Sdl LY/YT Str Blk Zinc	55	105709X Spring Return Clutch 6 75
10	STD561210 Pin Cotter 1/8 x 1 Cad	56	STD523712 Bolt Fin Hex 3/8-16 unc x 1-1/4
11	105701X Washer Plate Shf 388 Sq Hole	57	160855 V-Belt Gd Drive
12	19151216 Washer 15/32 x 3/4 x 16ga	59	169691 Keeper Belt Centerspan
13	74550412 Bolt 1/4-28unf Gr8 W/Patch	61	17060612 Screw 3/8-16 x 3/4
14	STD551125 Washer Lock Hvy Helical 1/4	62	8883R Cover Pedal Blk Round
15	74490544 Bolt Hex FLGHD 5/16-18 Gr.5	63	175410 Pulley Eng
18	STD523710 Bolt Fin Hex 3/8-16 x 1	64	71170764 Bolt Hex 7/16-20 x 4 Gr 5
19	STD541437 Nut Lock Hex W/Ins. 3/8-16 Unc	65	STD551143 Washer Lock Hvy Hicl Spr 7/16
21	106933X Knob Rd 1/2-13 Plstc Thds Blk	66	154778 Keeper Belt Engine
22	130804 Rod Brake Blk Zinc 26 840	70	134683 Guide Belt Mower Drive RH
24	STD541237 Nut Hex Jam 3/8-16 Unc	74	109502X Spacer Axle
25	106888X Spring Rod Brake 2 00 Zinc	75	121749X Washer 25/32 x 1 1/4 x 16 Ga
26	19131016 Washer 13/32 x 5/8 x 16 Ga	76	STD581075 E-ring #5133-75
27	STD561210 Pin Cotter 1/8 x 3/4 Cad	77	123583X Key Square 2 0 x 1845/ 1865
28	175765 Rod Brake Parking LY/YT	78	121748X Washer 25/32 x 1-5/8 x 16 Ga
29	71673 Cap Brake Parking	79	2228M Key
30	174973 Bracket Mtg Transaxle	96	4497H Retainer Spring 1.00
32	STD523107 Bolt Hex Hd 5/16-18unc x 3/4	112	19091210 Washer 9/32 x 3/4 x 10 Ga
34	175578 Shaft Asm Pedal Foot	113	127285X Strap Torque
35	120183X Bearing Nylon Blk 629 Id	116	72110608 Bolt Rdhd Sq Neck 3/8-16 x 1
36	STD551062 Washer 21/32 x 1 x 16 Ga	120	73900600 Nut Lock Fig 3/8-16
37	STD571810 Pin Roll 3/16 x 1"	150	174456 Spacer Retainer
38	165936 Pulley Idler Flat	151	19133210 Washer 13/32 x 2 x 10 Ga
39	74760648 Bolt Fin Hex 3/8-16 Unc X 3	170	173898 Keeper Belt Transaxle Gear
40	175461 Spacer Split	202	72110614 Bolt Carr Sh 3/8-16 x 1-3/4 Gr. 5
41	175556 Keeper Belt Idler	212	145212 Nut Hex Flange Lock
42	19131312 Washer 13/32 x 13/16 x 12 Ga		

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

STEERING

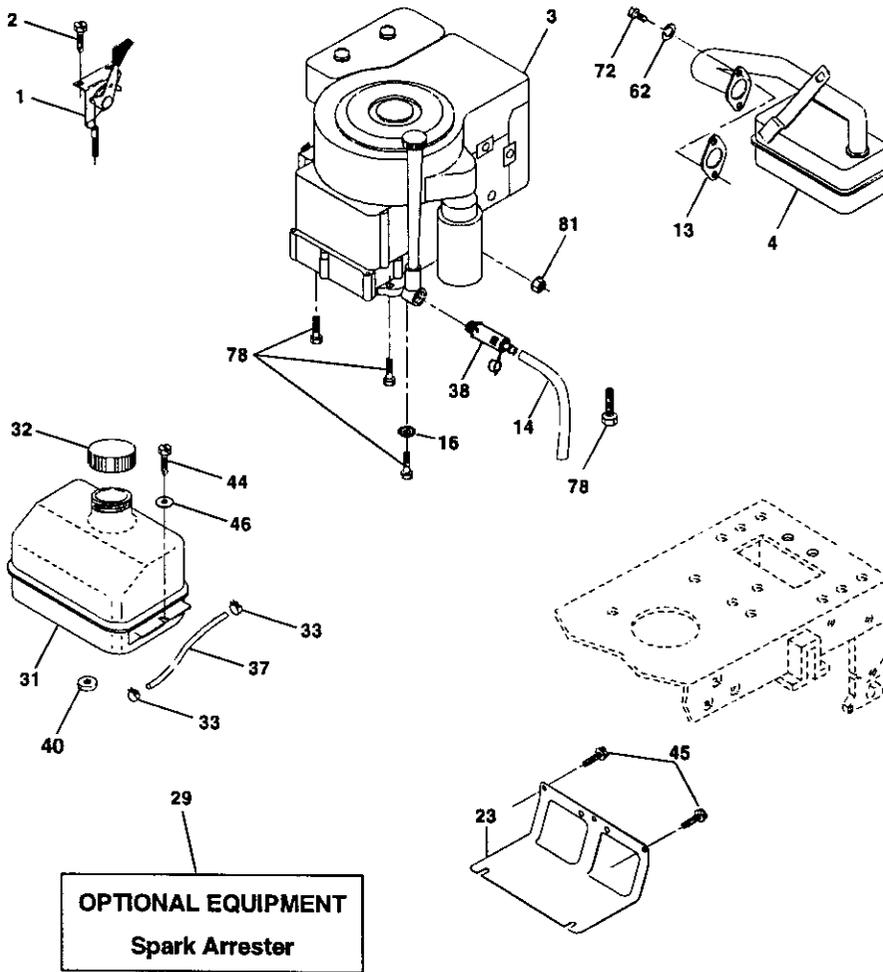
TRACTOR -- MODEL NUMBER 917.271531

KEY NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering Opp Sears Blk
2	154427	Axle Asm Front Lt
3	169840	Spindle Asm Lh
4	169839	Spindle Asm Rh
5	6266H	Washer Thrust .75 x 1.230
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
7	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
8	12000029	RingClip #T5304-75
9	3366R	Bearing Col Strg Blk
10	175121	Draglink
11	10040600	Washer Lock Hvy Hicl Spr 3/8
13	136518	Spacer Brg Axle Front
15	145212	Nut Hexflange Lock
17	177876	Shaft Asm Strg
26	126847X	Bushing Link Drag Blk LR
27	136874	Gear Sector 22 Teeth
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17060612	Screw 3/8-16 x 3/4
32	130465	Rod Tie Wire Form 19.75 Mech
36	155099	Bushing Strg. 5/8 ID Dash
37	152927	Screw
38	139769	Cap Wheel Steer Opp Sears USA
39	19133812	Washer 13/32 x 2-3/8 x 12 Ga.
40	7810H	Nut Lock Center 3/8-24
41	100711L	Adaptor Wheel Strg.
42	145054X428	Boot Steering Dash P/L MTL Blk
43	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
44	153720	Extension Steering Non-adjust
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
51	73800500	Nut Lock Hx W/Ins 5/16-18unc
54	74780520	Bolt Fin Hex 5/16-18unc
63	74780616	Bolt Fin Hex 3/8-16unc x 1 Gr. 5
65	160367	Spacer Axle
67	72140618	Bolt Rdhd 3/8-16 x 2-1/4
68	169827	Brace Axle
71	175146	Steering Asm
82	169835	Bracket Susp Chasis Front
85	133835	Fastner Christmas Tree
88	175118	Bolt Shoulder 7/16-20 Unc
91	175553	Clip Steering

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

TRACTOR – MODEL NUMBER 917.271531

ENGINE



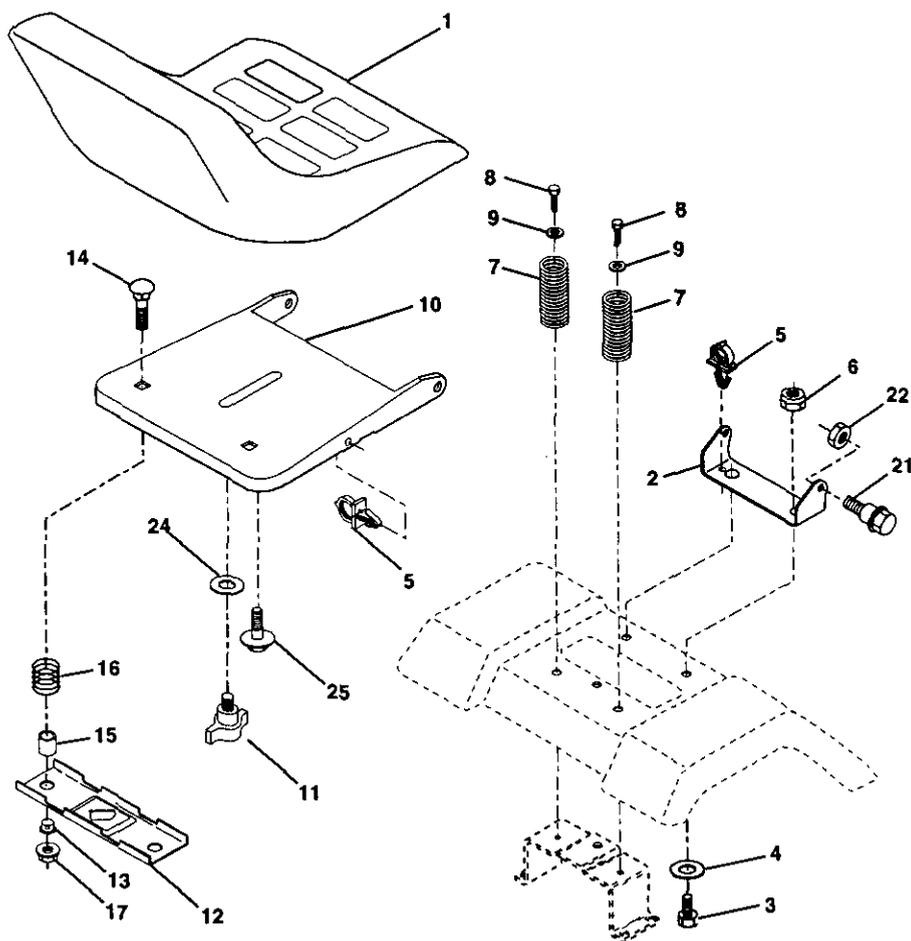
ENGINE

TRACTOR -- MODEL NUMBER 917.271531

KEY PART NO.	NO.	DESCRIPTION
1	170545	Control Th/ch
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	Engine (See Breakdown) Briggs, Model No 287707-1255-E3
4	137352	Muffler Exh LT B&S 14HP IC OHV
13	165291	Gasket Eng 1 313 Id Tin Plated
14	148456	Tube, drain
16	STD551237	Washer Lock Ext Tooth 3/8
23	169837	Shield Browning/Debris Guard
29	137180	Kit Spark Arrestor (Flat Scm)
31	109202X	Tank Fuel Front 1 25
32	158990	Cap Asm Fuel Sears Vented
33	123487X	Clamp Hose Blk
37	137040	Line Fuel 20"
38	148315	Plug, drain
40	124028X	Bushing Snap Nyl Blk Fuel Line
44	17670412	Screw Hexwsh Thdrol 1/4-20 x 3/4
45	17000612	Screw Hex wsh Thdr 3/8-16 x 1/4
46	19091416	Washer 9/32 x 7/8 x 16 ga
62	STD551131	Washer Lock Hvy Hicl Spr 5/16
72	71070512	Screw Hex Hd Cap 5/16-18 X 3/4
78	17060620	Screw 3/8-16 x 1-1/4
81	73510400	Nut Keps Hex 1/4-20 Unc

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

TRACTOR -- MODEL NUMBER 917.271531
SEAT ASSEMBLY



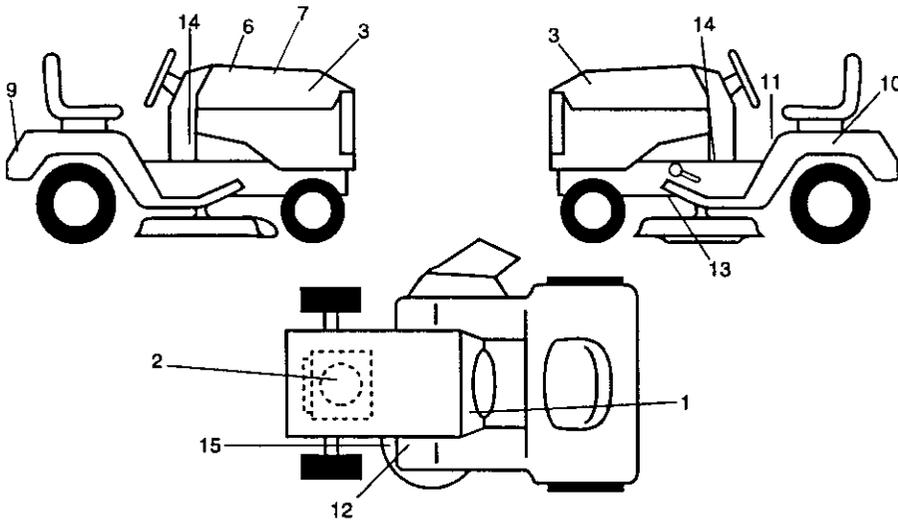
KEY PART NO.	NO.	DESCRIPTION
1	140122	Seat
2	140551	Bracket Pvt St
3	71110616	Bolt Fin Hex 3/8-16unc X 1
4	19131610	Washer Flat 13/32 X 1 X 10 Ga
5	145006	Clip Push-In Hinged
6	STD541437	Locknut Hex W/Wsh 3/8-16
7	124181X	Spring Seat Cprsn 2 250 Blk Zl
8	17000616	Screw 3/8-16 X 1-1/2
9	19131614	Washer 13/32 X 1 X 14 Ga
10	174894	Pan Seat
11	166369	Knob Seat Adj. Wingnut
12	121246X	Bracket Mounting Switch

KEY PART NO.	NO.	DESCRIPTION
13	121248X	Bushing Snap Blk Nyl 50 Id
14	72050412	Bolt Rdhd Sht Nk 1/4-20x1-1/2
15	134300	Spacer Split 28x 96 Yel Zinc
16	121250X	Spring Cprsn 1 27 Blk Pnt
17	123976X	Nut Lock 1/4 Lge Fig Gr 5 Zinc
21	171852	Bolt Shld 5/16-18 Unc-2A Blk D
22	STD541431	Nut Lock Hex "W/Ins 5/16-18
24	19171912	Washer 17/32 X 1-3/16 X 12 Ga
25	127018X	Bolt Shoulder 5/16-18 x .62

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

TRACTOR -- MODEL NUMBER 917.271531

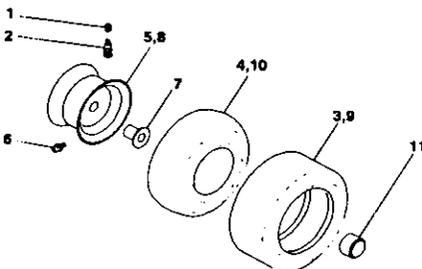
DECALS



KEY NO.	PART NO.	DESCRIPTION
1	156867	Decal Dash Inst Oper English
2	176675	Decal HP Engine
3	171704	Decal Hood Logo
6	133644	Decal Maint Cust Sears Domestic
7	174210	Decal Replcmnt Sears
9	163204	Decal Fender Craftsman White
10	149516	Decal Battery Dngr/Psn Eng Acme
11	156439	Decal Danger Fender Eng/span

KEY NO.	PART NO.	DESCRIPTION
12	4900J	Decal Clutch/brake English
13	146046	Decal V-Belt Dr Sch Tractor
14	177097	Decal Panel Dash 6sp 42"
15	160396	Decal V-Belt Sch
--	157199X428	Pad Footrest
--	138311	Decal Handle Lft Height Adjust
--	178124	Manual Owners English
--	178125	Manual Owners Spanish

WHEELS AND TIRES

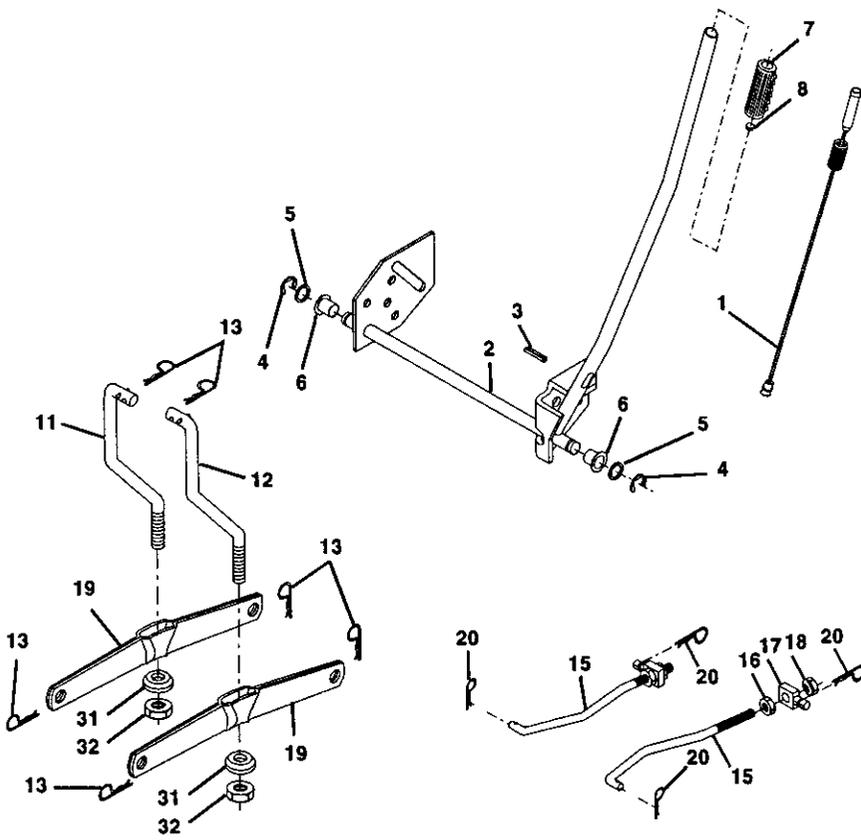


KEY NO.	PART NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Inner Front #35060
5	106732X427	Rim Asm 6"front White Service
6	278H	Fitting Grease
7	9040H	Bearing Flange
8	106108X427	Rim Asm 8"rear White Service
9	124635X	Tire R Ts 18x9 5-8 Service
10	7152J	Tube Rear 9 5 X 8 Service
11	104757X428	Cap Axle Blk 1 50 X 1 00
--	144334	Sealant, Tire (10 oz. tube)

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

TRACTOR -- MODEL NUMBER 917.271531

LIFT ASSEMBLY



LIFT ASSEMBLY

TRACTOR -- MODEL NUMBER 917.271531

KEY PART NO.	NO.	DESCRIPTION
1	159460	Wire Asm Inner/Sprg W/plunger.LT
2	159471	Shaft Asm Lift
3	105767X	Pin Groove 1 500 Zinc
4	12000002	E Ring #5133-62
5	19211621	Washer Pltd 21/32 X 1 X 21 ga
6	120183X	Bearing Nylon Blk 629 Id
7	125631X	Grip Handle Fluted Blk
8	122365X	Button Plunger Red
11	139865	Link Lift LH
12	139866	Link Lift RH
13	STD624008	Retainer Spring
15	173288	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	175689	Trunnion
18	73800800	Nut Lock W/Wsh 1/2-13unc
19	139868	Arm Suspension Rear
20	163552	Retainer Spring Zinc
31	169865	Bearing Pvc Lift
32	73540600	Nut Crownlock 3/8-24

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

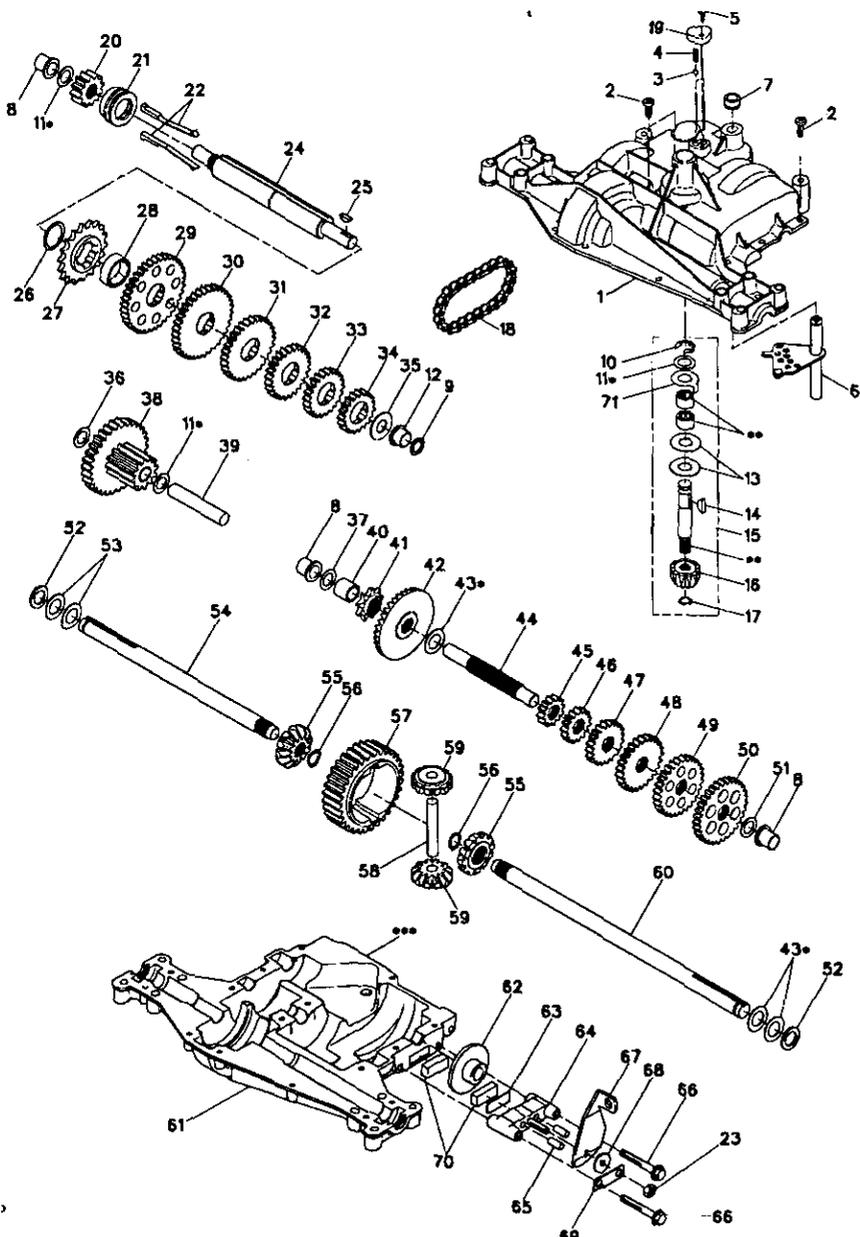
TRACTOR -- MODEL NUMBER 917.271531

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	48	133944	Washer, Hardened
2	STD533107	Bolt	49	174284	Roller Assembly, Cam
3	138017	Bracket Assembly, Sway Bar, Front			Follower
4	165460	Bracket Sway Bar 38/42" Deck	50	131340	Bolt, Shoulder #10-24 Grade 5
5	STD624008	Retainer Spring	51	STD541410	Locknut
6	130832	Arm, Suspension, Rear	52	138888	Bolt, Shoulder 5/16-18 UNC
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	53	131845	Arm Assembly, Pad, Brake
9	STD551137	Washer, Lock	54	133943	Washer, Hardened
10	140296	Washer, Hardened	55	155048	Arm, Idler
11	134149	Blade, Mulching	56	165723	Spacer, Retainer
13	137645	Shaft Assembly, Mandrel	59	141043	Guard, TUV Idler
14	128774	Housing, Mandrel, Vented	67	149848	Knob Custom Oval
15	110485X	Bearing, Ball, Mandrel	68	144959	V-Belt
16	174493	Stripper, Vented Mower Deck	142	165890	Arm Spring Brake Mower
18	72140505	Bolt, Carriage 5/16-18 x 5/8	143	157109	Bracket Arm Idler 42"
19	132827	Bolt, Shoulder	144	158634	Keeper Belt 42" Clutch Cable
20	159770	Baffle, Vortex	145	165888	Pulley Idler Flat
21	STD541431	Nut Crownlock 5/16-18 UNC	146	171977	Bolt Carriage Idler
22	134753	Stiffener Bracket	147	131335	Spring Extension
23	131267	Bracket, Deflector	148	169022	Spring Return Idler
24	105304X	Cap, Sleeve	149	165898	Retainer Spring Yellow Zinc
25	123713X	Spring, Torsion, Deflector	150	19091216	Washer 9/32 x 3/4 x 16 Ga.
26	110452X	Nut, Push	151	169670	Bracket Clutch
27	130968X428	Shield, Deflector	152	169676	Cable Clutch 42 In
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	153	169674	Washer Flat 3/8" Type B
29	131491	Rod, Hinge	154	169675	Spring Retainer
30	157722	Screw Thdrol Washer Head	155	169671	Spring Retention Lever
31	129963	Washer, Spacer	156	169672	Spacer
32	153535	Pulley, Mandrel	157	169669	Rod Clutch
33	178342	Nut, Toplock, Flanged	158	17720410	Screw Hex Thd Cut 1/4-20 x 5/8
34	STD533717	Bolt Rdhd 3/8-16 x 1-3/4	159	72140614	Bolt Rdhd Sqn 3/8-16unc x 1-3/4
36	131494	Pulley, Idler, Flat	--	130794	Mandrel Assembly (Includes Key Numbers 8-10, 13-15, 31 and 32)
37	STD551037	Washer 13/32 x 13/16 x 16 Gauge	--	169583	Replacement Mower, Complete
40	STD541437	Nut Crownlock 3/8-16 UNC			
44	140088	Guard, Mandrel, L.H.			
45	STD624003	Retainer			
46	137729	Screw, Thd. Roll 1/4-20 x 5/8			

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

TRACTOR – MODEL NUMBER 917.271531
DANA TRANSAXLE – MODEL NUMBER D4360-140



**TRACTOR -- MODEL NUMBER 917.271531
DANA TRANSAXLE--MODEL NUMBER D4360-140**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	170981	Housing, Upper	40	120472X	Spacer, .633 X .87 X .755
2	2274J	Screw, Tapping, 1/4-20 X .734	41	105928X	Sprocket, 9T
3	134400	Ball, Detent	42	170988	Gear, Bevel, 36T
4	105904X	Spring, Detent	43	134394	Assy, Kit, Shim, .750 Shaft
5	160940	Screw, Tapping, No. 10-24 X .482	44	120473X	Shaft, Drive
6	138235	Assy, Kit, Shifter	45	142678	Gear, Spur, 12T
7	108727X	V-Ring	46	143697	Gear, Spur, 15T
8	148266	Bearing, Flange	47	124641X	Gear, Spur, 20T
9	148269	Seal, Oil	48	106589X	Gear, Spur, 25T
10	2225J	Ring, Retaining	49	120408X	Gear, Spur, 28T
11	134793	Assy, Kit, Shim, .625 Shaft	50	105937X	Gear, Spur, 31T
12	148268	Bearing, Flange	51	2226J	Washer, Plain, .632 X 1.00 X .060
13	120415X	Washer, Plain, .632 X 1.38 X .046	52	134401	Washer, Neoprene
14	142674	Key, Woodruff, No. 9	53	2264J	Washer, Plain, .758 X 1.25 X .031
15	170983	Assy, Kit, Input Shaft	54	160946	Axle, LH
16	170986	Pinion, Bevel, 12T	55	170990	Gear, Miter, 1 2T, Splined
17	105909X	Ring, Retaining	56	160948	Ring, Retaining
18	105910X	Chain, 24 Pitches	57	110071X	Gear, Spur, 32T
19	160942	Cover, Detent	58	120952X	Shaft, Cross
20	160943	Gear, Spur, 1 2T	59	170991	Gear, Miter, 1 2T, Idler
21	148267	Collar, Clutch	60	160950	Axle, RH
22	138236	Assy, Kit, Clutch Keys	61	170992	Housing, Lower
23	73810500	Nut, Lock, 5/16-24	62	7294J	Disc, Brake
24	142676	Shaft, Intermediate	63	108989X	Spacer, Brake Puck
25	2244J	Key, Woodruff, No. 61	64	160952	Jaw, Brake
26	105916X	Ring, Retaining	65	120954X	Pin, Dowel
27	120470X	Sprocket, 1 8T	66	160953	Screw, Tapping, 5/16-18 X 2.35
28	110070X	Spacer, 1. 131 X 1.45 X .494	67	138244	Lever, Actuating
29	142677	Gear, Spur, 37T	68	108996X	Washer, Plain, .321 X 1.00 X .055
30	142681	Gear, Spur, 35T	69	160954	Bracket, Anti-Rotation
31	124644X	Gear, Spur, 30T	70	120951X	Puck, Friction
32	108980X	Gear, Spur, 25T	71	174256	Washer, Anti Rotation
33	120406X	Gear, Spur, 22T	72	120416X	Grease
34	134796	Gear, Spur, 19T			
35	105925X	Washer, Plain, .640 X 1.37 X .061			
36	2228J	Washer, Plain, .632 X 1.00 X .046			
37	170987	Washer, Plain, .632 X 1.00 X .031			
38	174255	Assy, Gear, Comb., 12T & 30T			
39	124639X	Shaft, Idler			

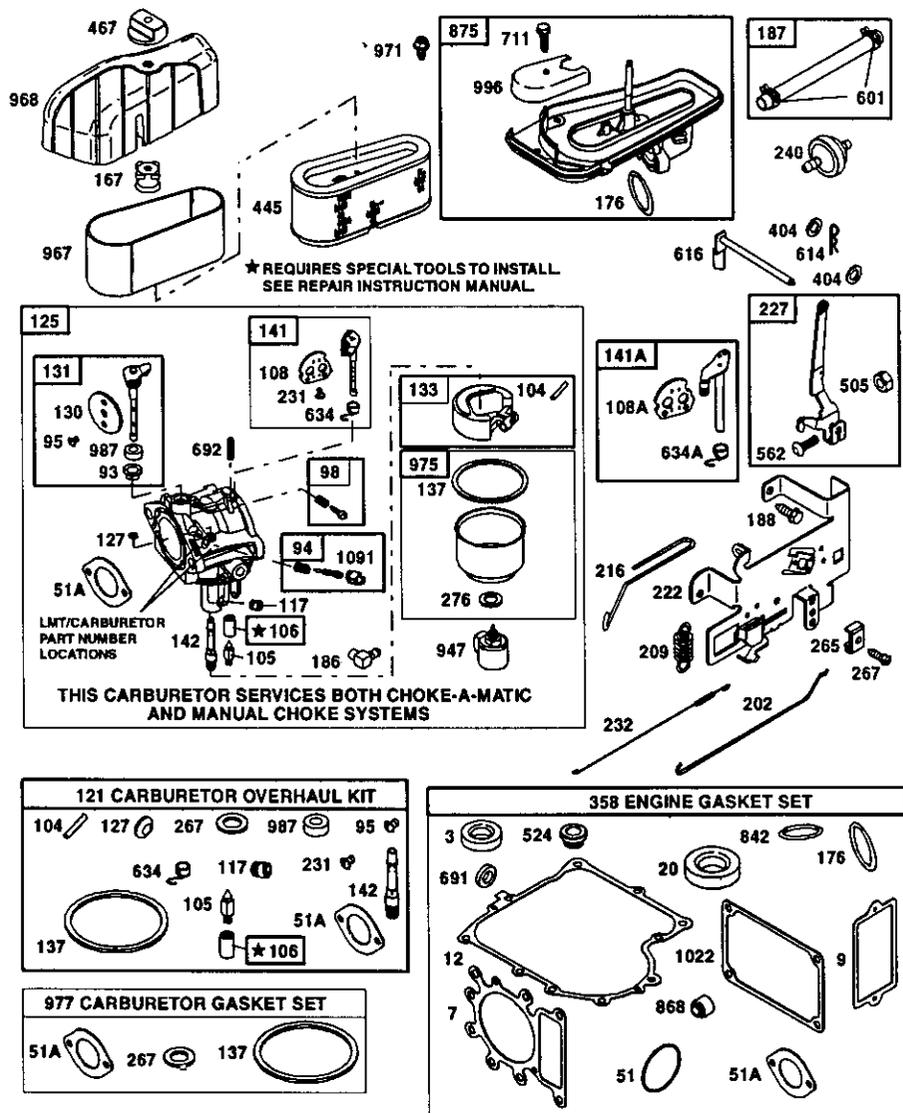
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

* Use in various combinations to maintain proper clearances.

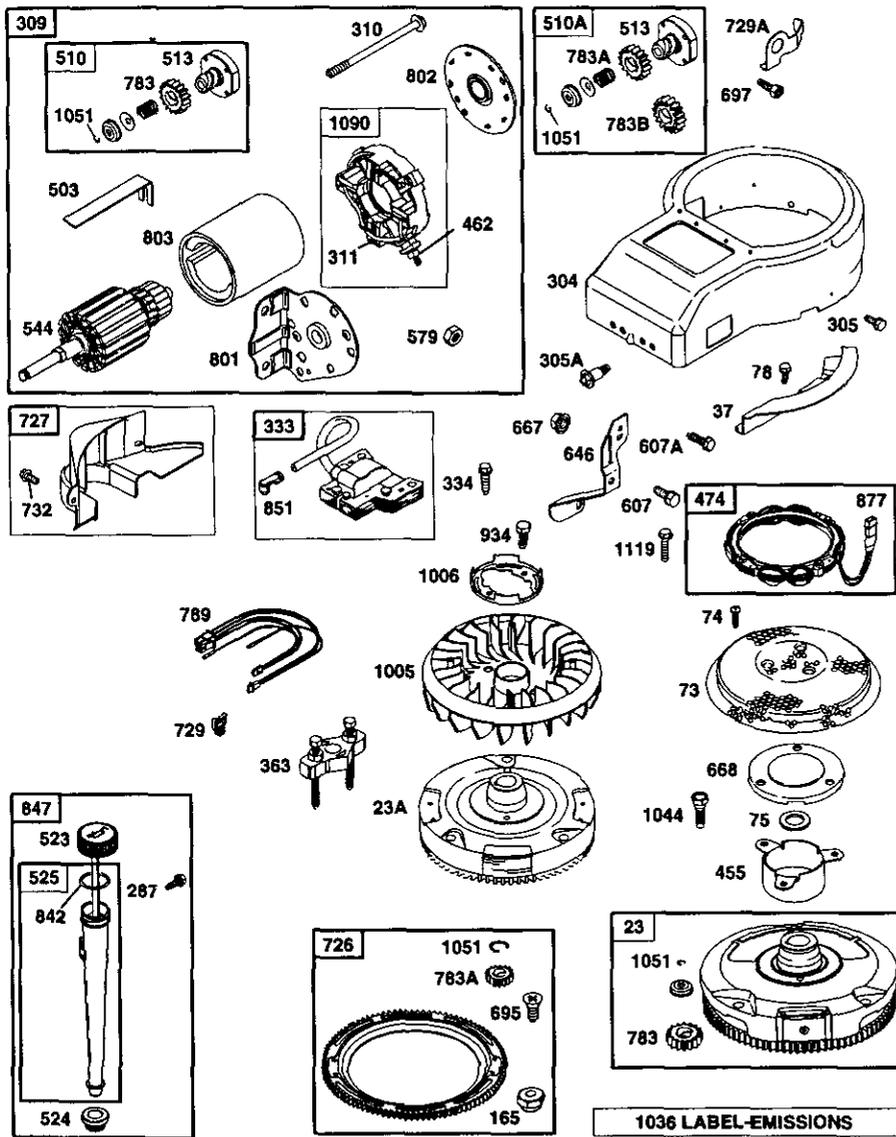
** Order Key No. 15.

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

TRACTOR -- MODEL NUMBER 917.271531
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E3



TRACTOR – MODEL NUMBER 917.271531
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E3



1036 LABEL-EMISSIONS

TRACTOR – MODEL NUMBER 917.271531
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E3

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	98	495800	Kit-Idle Speed
2	399265	Bushing/Seal Kit	104	231789	Ø Pin-Float Hinge
3	391086	• Seal-Oil	105	231855	Ø Valve-Float Needle
4	494238	Sump-Engine	106	231854	Ø Seat-Inlet
5	691165	Head-Cylinder	108	224558	Valve-Choke (Manual Choke)
7	273280	*+ Gasket-Cylinder Head	108A	224540	Valve-Choke (Choke-A-Matic)
8	495735	Breather Assembly	117	232118	Ø Jet, Main (Standard)
9	27803	• Gasket-Breather		232119	Jet, Main (High Altitude)
10	94621	Screw (Breather Assembly)	121	690191	Carburetor Overhaul Kit
11	281246	Tube-Breather	125	690194	Carburetor
12	271916	• Gasket-Crankcase (.015" Thick, Std.)	127	— — —	Ø Plug-Welch (Sold in Kit Only)
	271997	• Gasket-Crankcase (.005" Thick)	130	224539	Valve-Throttle
	271996	• Gasket-Crankcase (.009" Thick)	131	494379	Throttle Shaft Kit
13	94728	Screw (Cylinder Head, 3-9/16")	133	494381	Float-Carburetor
15	94239	Plug-Oil Drain	137	281165	Ø‡ Gasket-Float Bowl
16	690136	Crankshaft	141	495097	Choke Shaft Kit (Man. Choke)
20	291675	• Seal-Oil	141A	495931	Choke Shaft Kit (Choke-A-Matic)
22	95187	Screw (Crankcase Cover)	142	232117	Ø Nozzle-Carburetor
23	693557	Flywheel (Steel Ring Gear)	146	94196	Key-Timing
23A	492326	Flywheel (Plastic Ring Gear)	165	693148	Nut (Ring Gear)
24	222698	Key-Flywheel	171	281051	Nut (Air Cleaner)
25	499284	Piston Assembly (Std.)	176	281106	• Gasket, Air Cleaner
	499288	Piston Assembly (.010 "O.S.)	177	270920	• Seal-O-Ring
	49929	Piston Assembly (.020" O.S.)	186	493496	Connector-Hose
	499296	Piston Assembly (.030" O.S.)	187	492790	Line-Fuel (Cut to Required Length)
26	495854	Ring Set, Piston (Std.)	188	94929	Screw (Control Bracket)
	495852	Ring Set, Piston (.010 "O.S.)	192	492160	Adjuster, Rocker Arm
	495851	Ring Set, Piston (.020 "O.S.)	209	260695	Spring, Governor
	495855	Ring Set, Piston (.030 "O.S.)	216	262766	Link-Choke
27	263129	Lock-Piston Pin	216A	262767	Link-Choke
28	498319	Pin Assembly, Piston (Std.)	222	495611	Bracket, Control
	498320	Pin Assembly-Piston (.005" O.S.)	227	493935	Lever-Governor
29	692419	Rod-Connecting (Std.)	231	94098	Ø Screw (Choke)
	499940	Rod-Connecting (.020 U.S.)	232	262785	Spring-Link
32	692852	Screw (Connecting Rod)	238	262836	Cap, Valve
33	495856	Valve-Exhaust	240	394358	Filter-Fuel
34	495857	Valve, Intake	265	221535	Clamp-Casing
35	262811	Spring, Valve	267	94906	Screw (Casing Clamp)
37	224502	Guard-Flywheel	276	281164	Ø‡ Sealing Washer
40	224641	Retainer, Valve	287	94903	Screw (Dipstick Tube)
43	490815	Governor-Oil Slinger	294	810104	Adjuster-Rocker Arm
45	262411	Tappet, Valve	304	496281	Housing-Blower (Black Inner)
46	496884	Camshaft	305	94863	Screw (Inner Blower Housing)
48	496050	ShortBlock	306	225020	Shield, Cylinder
50	690193	Manifold, Intake	307	94930	Screw (Cylinder Shield)
51	693138	*+ Gasket-Intake			RPM Settings: Low Speed: 1900-2100
51A	273650	Gasket-Intake			High Speed: 3000-3200
53	690227	Stud (Carburetor)			• Included in Gasket Set, Ref Number 358.
54	95160	Screw (Intake Manifold)			Ø Included in Carburetor Kit, Ref Number 121.
73	224948	Screen, Rotating			‡ Included in Carburetor Gasket Set, Ref Number 977.
74	94626	Screw (Rotating Screen)			+ Included in Valve Overhaul Kit, Ref Number 1033.
75	225136	Washer (Flywheel)			
78	94896	Screw (Flywheel Guard)			
87	491323	• Seal-Governor Shaft			
93	281346	Bushing-Throttle Shaft			
94	498030	Valve-Idle Adjustment			
95	94098	Ø Screw (Throttle Valve)			

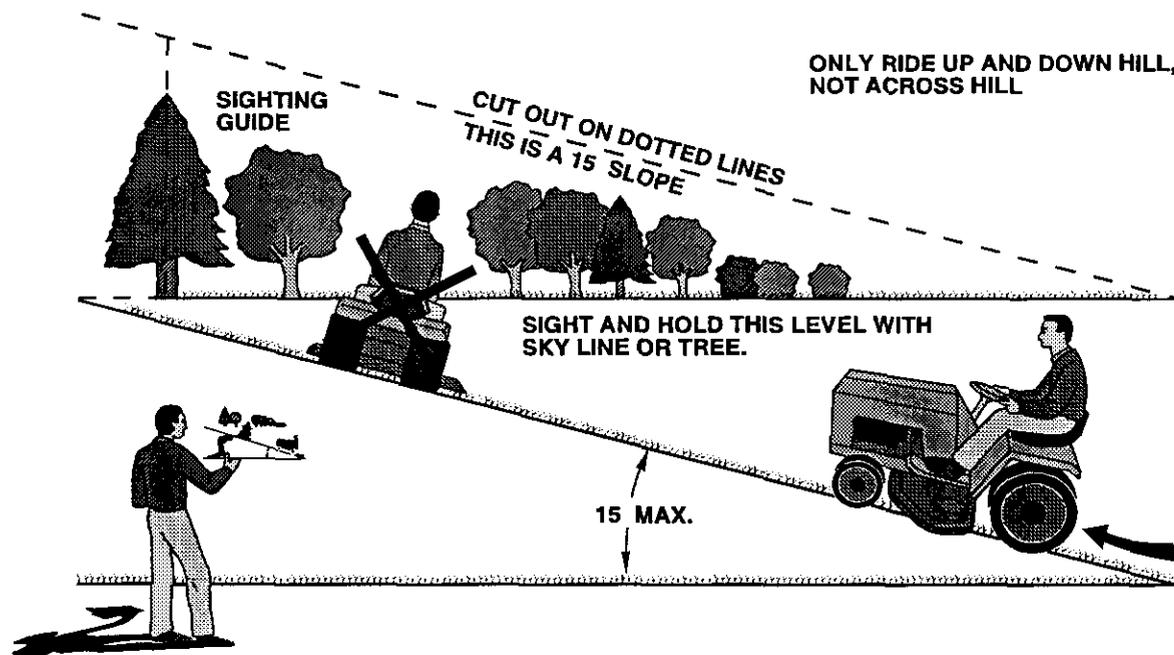
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR – MODEL NUMBER 917.271531
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E3**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
309	693551	Motor-Starter(For Steel Ring Gear Only)	729	281390	Clip, Wire
	497595	Motor-Starter (For Plastic Ring Gear Only)	729A	225170	Clip, Wire
310	94003	Screw (Starter Motor)	732	94625	Screw(Starter Drive Cover)
311	497608	Brush Set	741	262932	Gear-Timing
318	94734	Screw (Mounting Bracket)	757	213998	Link-Counterweight
333	495859	Armature, Magneto	758	499994	Counterweight
334	94731	Screw (Armature)	759	230787	Pin-Counterweight
337	491055	Spark Plug	761	94593	Screw (Counterweight)
358	690189	Gasket Set	783	693713	Gear-Pinion (For Steel Ring Gear Only)
363	19203	Flywheel Puller	783A	693059	Gear-Pinion (For Aluminum Ring Gear Only)
383	89838	Wrench-Spark Plug	783B	693058	Gear-Pinion (For Plastic Ring Gear Only)
404	94927	Washer (Governor Crank)	789	497708	Harness, Wiring
423	95163	Screw (Air Cleaner Base)	801	497626	Cap-Drive
455	222561	Cup-Flywheel	802	497607	Cap-End
462	225137	Washer (Starter Cable)	803	497604	Housing-Starter
467	493903	Knob-Air Cleaner	830	94555	Stud-Rocker Arm
474	393474	Alternator	847	496415	Dipstick/Tube Assembly
503	806000	Strap-Starter	851	224110	Terminal-Cable
505	231978	Nut (Governor Lever)	868	499236	Seal- Valve
510A	693699	Drive, Starter (Use With Steel Ring Gear Only)	871	262835	Bushing-Guide
510A	497606	Drive, Starter (Use With Aluminum &Plastic Ring Gear Only)	875	693686	Base, Air Cleaner
513	398003	Clutch-Drive	877	393456	Wire-Alternator
523	495230	Dipstick	878	393362	Harness-Alternator
524	281370	Dipstick Tube Seal	883	272293	Gasket, Exhaust
525	496113	Dipstick Tube	914	94863	Screw (Rocker Cover)
535	496894	Filter, A/C Element	934	94627	Screw (Fan Retainer)
544	497603	Armature-Starter	947	497672	Solenoid-Fuel
552	491986	Bushing-Gov. Lever	967	272403	Filter-Pre Cleaner
556	93621	Screw (Alternator)	968	281758	Cover, Air Cleaner
562	94907	Bolt (Governor Lever)	975	495933	Bowl-Float
579	92278	Nut (Starter Cable)	977	690192	Gasket Set-Carburetor
601	93053	Clamp-Hose	987	281166	Ø Seal-Throttle Shaft
614	93306	Pin-Cotter	996	690678	Shield-Carburetor
616	495157	Crank-Governor	1005	691927	Fan-Flywheel
634	494453	Ø Seal-Spring	1006	224413	Retainer-Fan
634A	494455	Ø Seal-Spring Assy. (Choke-A-Matic)	1019	496758	Label Kit
635	280872	Boot, Spark Plug	1022	272475	++ Gasket-Rocker Cover
646	224546	Brace-Air Cleaner	1023	224552	Cover-Rocker
654	94010	Nut (Carburetor)	1026	494432	Rod-Push (Intake)
663	94929	Screw (Air Cleaner Brace)	1026A	495136	Rod-Push (Exhaust)
663A	94704	Screw (Air Cleaner Brace)	1029	224554	Arm-Rocker
667	94010	Nut (Air Cleaner Brace)	1033	690190	Valve Overhaul Kit
668	280848	Spacer	1034	495248	Guide-Push Rod
692	262715	Spring-Detent	1036	499364	Label Kit-Emission
695	693109	Screw (Ring Gear)	1044	94673	Screw (Flywheel)
697	94951	Screw (Starter Motor)	1051	263080	Ring-Retainer
711	94704	Screw (Carburetor Shield)	1058	273683	Owner's Manual
718	230192	Dowel, Sleeve	1090	497605	Retainer-Brush
726	399676	Gear Ring (Aluminum-Services Plastic Ring Gear Only)	1091	281364	Cap-Limiter
727	490324	Cover, Starter Drive	—	28N707-1026-E1	Replacement Engine
			RPM Settings:	Low Speed: 1900-2100	
				High Speed: 3000-3200	
			*	Included in Gasket Set, Ref Number 358.	
			Ø	Included in Carburetor Kit, Ref Number 121.	
			‡	Included in Carburetor Gasket Set, Ref Number 977.	
			+	Included in Valve Overhaul Kit, Ref Number 1033.	

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

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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