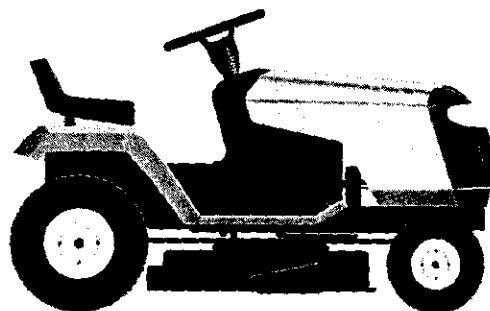


Owner's Manual



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

Model No.
917.270530



- 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 taking 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.

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 taking 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.

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/SG/SH):	SAE 30(ABOVE 32°F) SAE 5W-30 (Below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RJ19LM OR J19LM
VALVE CLEARANCE:	INTAKE: .003"-.005" EXHAUST: .005"-.007"
GROUND SPEED FORWARD: (MPH):	1ST 1.1 2ND 1.4 3RD 2.2 4TH 3.3 5TH 4.4 6TH 4.9 REVERSE: 1.4
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 your nearest authorized 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.

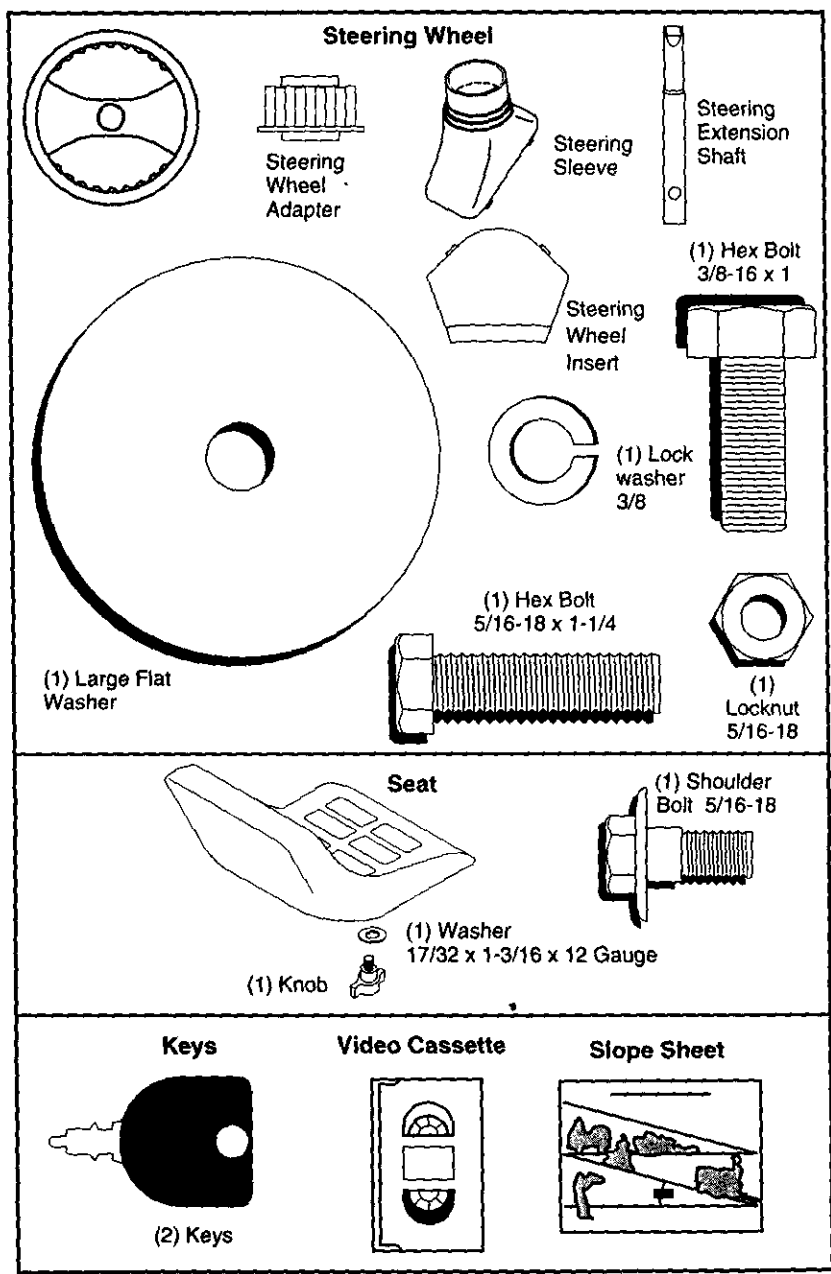
CUSTOMER RESPONSIBILITIES

- 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 authorized service center/department (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) 1/2" wrench
- (1) Tire pressure gauge
- (1) Pliers
- (1) Utility knife

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

UPACK 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

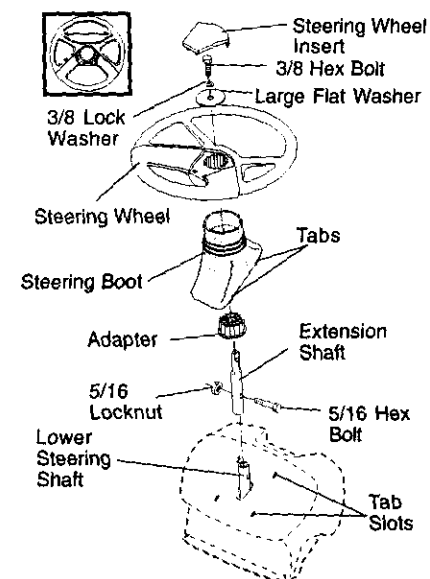
1. Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.
2. Place tabs of steering boot over tab slots in dash and push down to secure.

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.

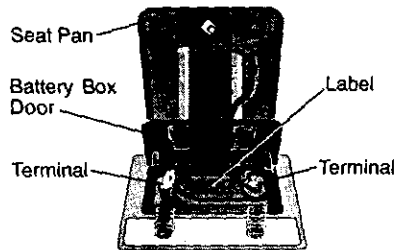


HOW TO SET UP YOUR TRACTOR

CHECK BATTERY

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

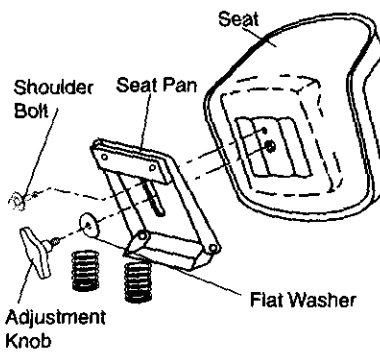
NOTE: If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



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

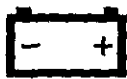
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated 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



SLOPE HAZARDS

(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY

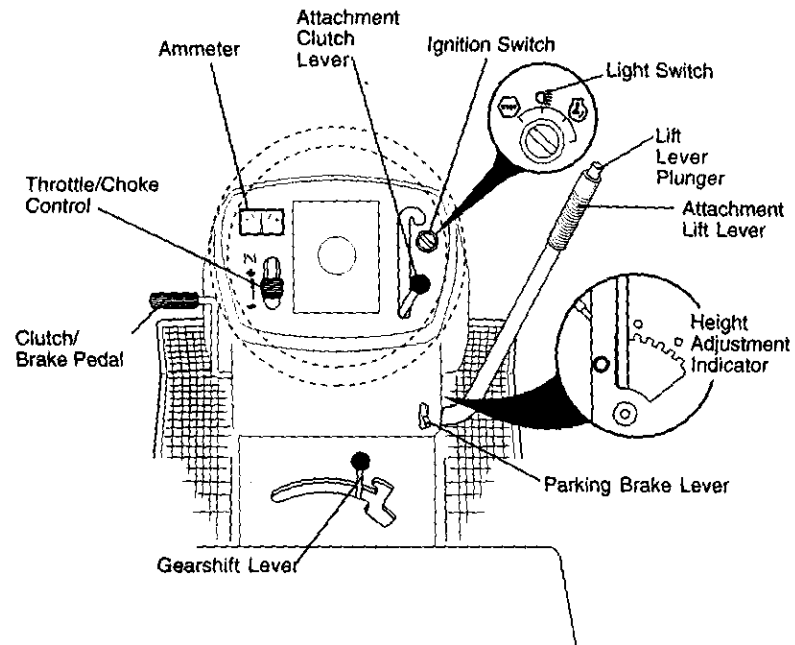


FREE WHEEL
(Automatic Models only)

KNOW YOUR TRACTOR

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

Compare the illustrations with your tractor to familiarize yourself with the locations of 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 (-).

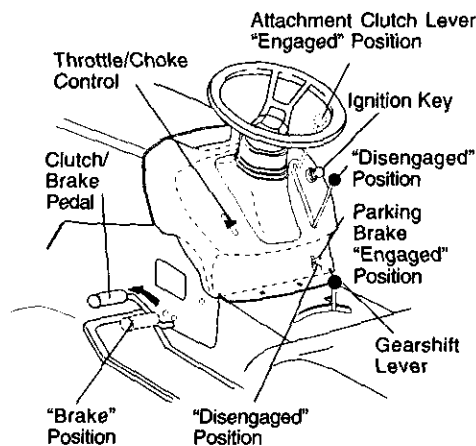


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

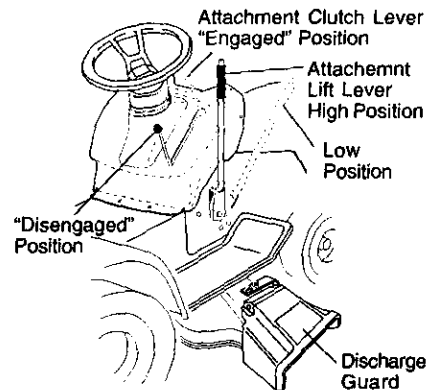
TO OPERATE MOWER

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 discharge guard 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.

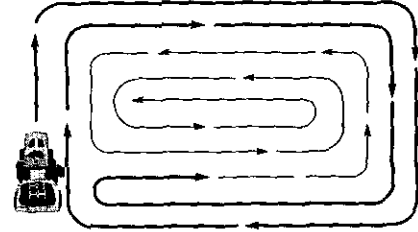
COLD WEATHER STARTING (50° F and below)

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		BEFORE EACH USE					BEFORE STORAGE													
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	SERVICE DATES													
TRACTOR	Check Brake 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			✓ ₅																
	Clean Battery and Terminals			✓ ₅																
	Check Transaxle Cooling			✓																
	Adjust Blade Belt(s) Tension									✓ ₅										
ENGINE	Adjust Motion Drive Belt(s) Tension								✓ ₅											
	Check Engine Oil Level	✓	✓																	
	Change Engine Oil			✓ _{1,2,3}																
	Clean Air Filter			✓ ₂																
	Clean Air Screen			✓ ₂																
	Inspect Muffler/Spark Arrester					✓														
	Replace Oil Filter (If equipped)								✓ _{1,2}											
	Clean Engine Cooling Fins					✓ ₃														
Replace Spark Plug								✓ ₂												
Replace Air Filter Paper Cartridge								✓ ₂												
Replace Fuel Filter																				

- 1 - Change more often when operating under a heavy load or in high ambient temperatures. 5 - If equipped with adjustable system.
 2 - Service more often when operating in dirty or dusty conditions. 6 - Not required if equipped with maintenance-free battery.
 3 - If equipped with oil filter, change oil every 50 hours. 7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum.
 4 - Replace blades more often when mowing in sandy soil. Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

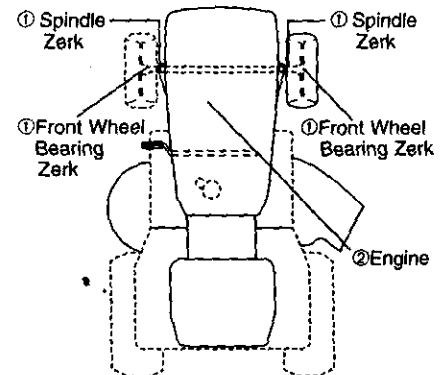
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



- 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

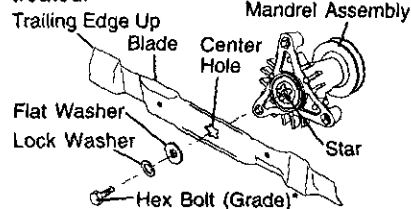
1. Raise mower to highest position to allow access to blades.
2. Remove hex bolt, lock washer and flat washer securing blade.

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

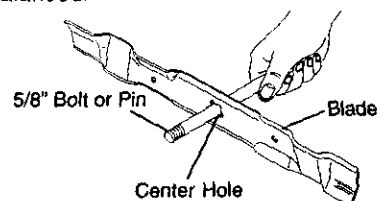
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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.

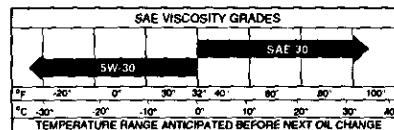
TRANSAXLE COOLING

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, SG, or SH. 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.

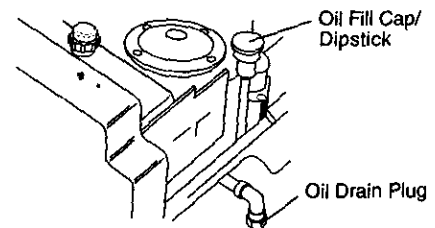
Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

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

- 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 drain plug.
3. After oil has drained completely, replace oil drain plug and tighten securely.
4. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
5. 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.



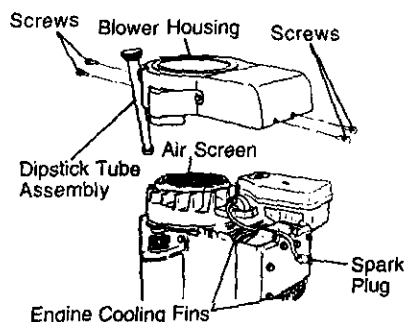
CLEAN AIR SCREEN

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

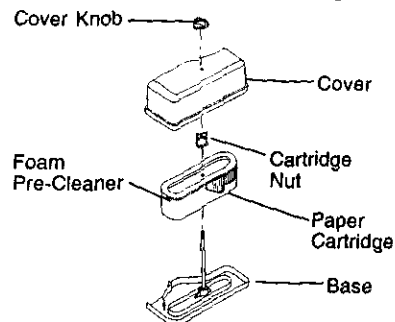
1. Remove cartridge nut.
2. Carefully remove cartridge to prevent debris from entering carburetor. Clean base carefully to prevent debris from entering carburetor.

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.

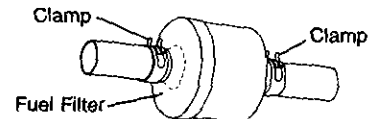
SPARK PLUGS

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.

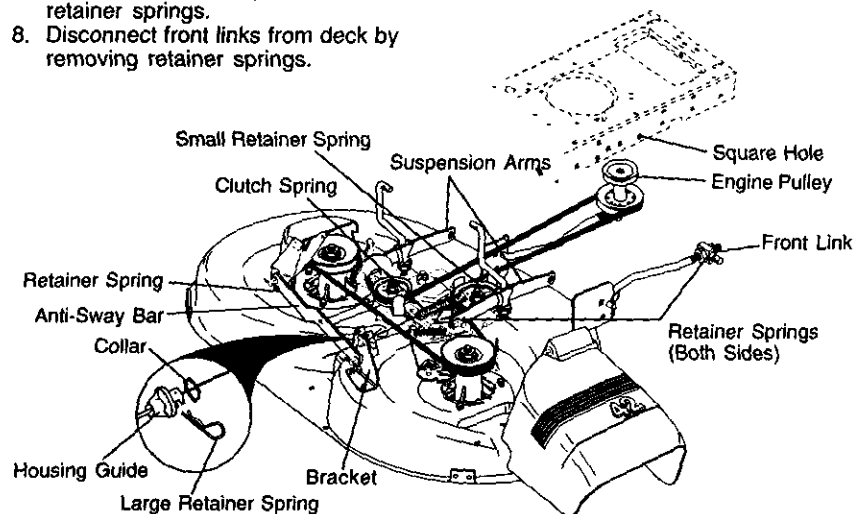
1. Place attachment clutch in "DISENGAGED" position.
2. Move attachment lift lever forward to lower mower to its lowest position.
3. Roll belt off engine pulley.
4. Remove small retainer spring, and lift clutch spring off pulley bolt.
5. Remove large retainer spring, slide collar off and push housing 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

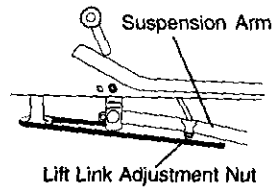
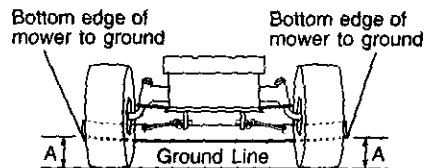
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

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

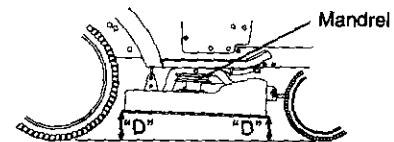
IMPORTANT: Deck must be level side-to-side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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

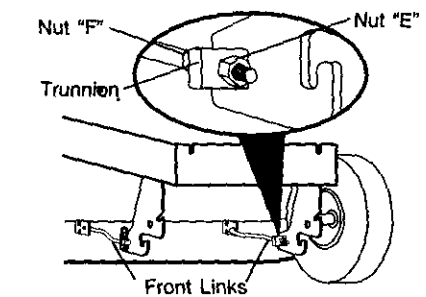
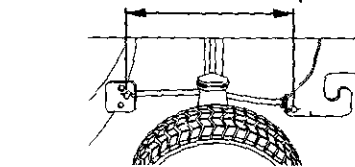
its highest position.

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



Both Front Links Should be Equal in Length



TO REPLACE MOWER BLADE DRIVE BELT

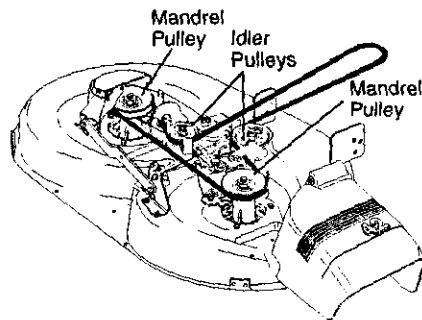
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

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.



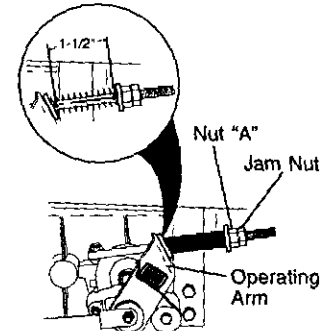
TO ADJUST BRAKE

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, 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 your nearest authorized service center/department.

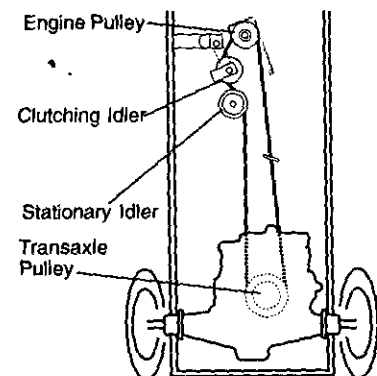
With Parking Brake "Engaged"



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 your nearest authorized service center/department.

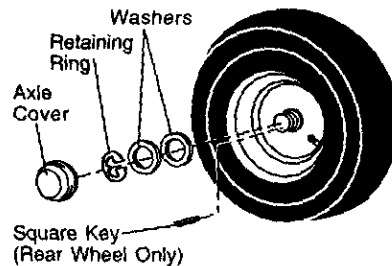
TO REMOVE WHEEL FOR REPAIRS

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:

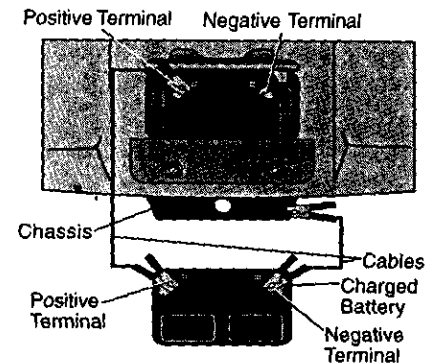
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicals.

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.

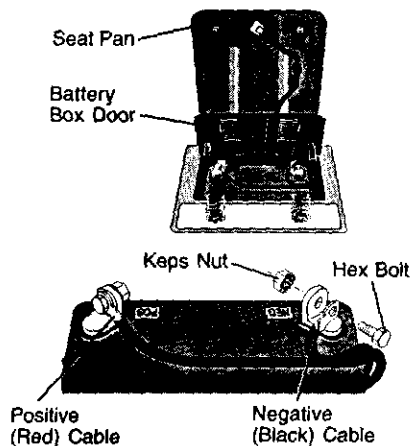


REPLACING BATTERY

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.

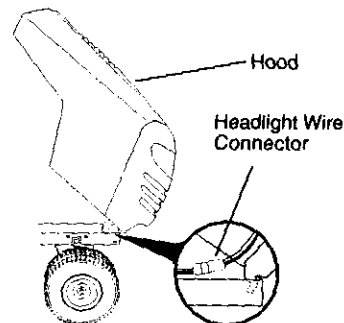
- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 15 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

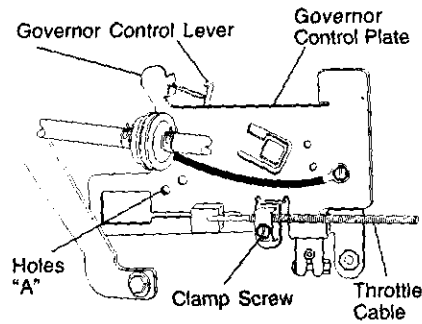
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

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.

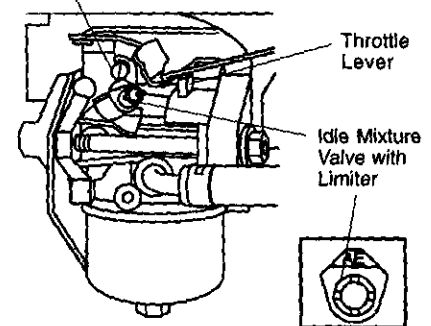
ACCELERATION TEST -

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 your nearest AUTHORIZED service center/department, 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 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 qualified service center.
Engine will not turn over	<ol style="list-style-type: none"> 1. Clutch/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 clutch/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 qualified service center.

TROUBLESHOOTING CHART

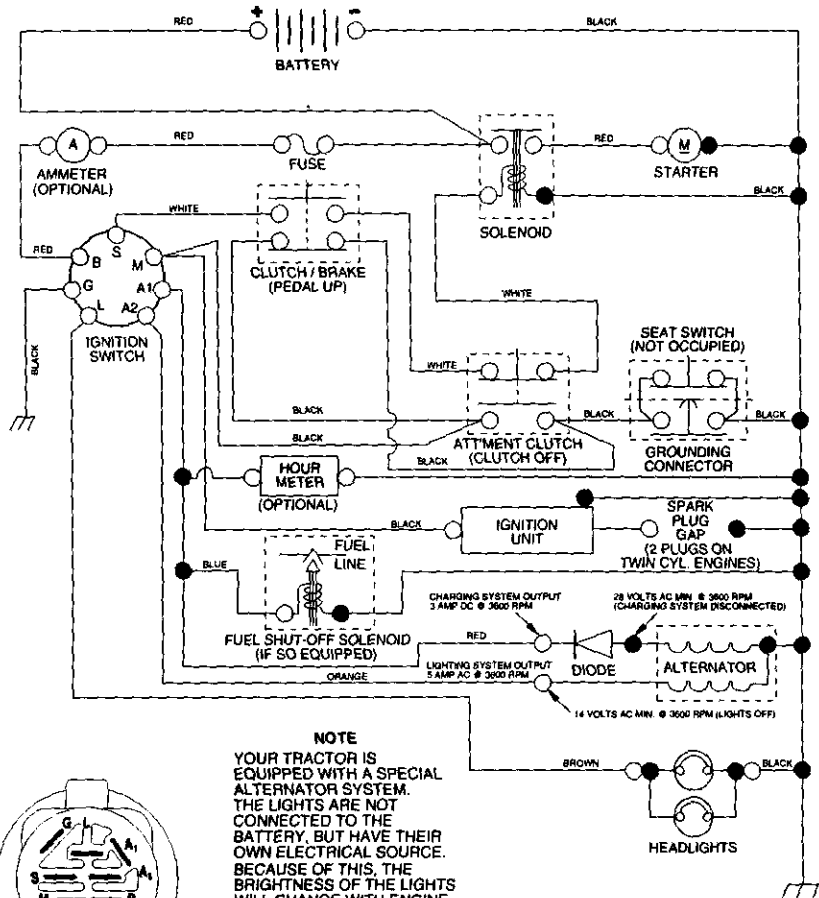
PROBLEM	CAUSE	CORRECTION
Engine clicks but will not start	<ol style="list-style-type: none"> 1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter. 	<ol style="list-style-type: none"> 1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
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 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 corrected, contact a qualified service center.

TROUBLESHOOTING CHART

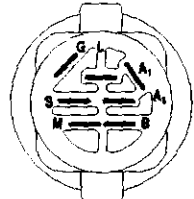
PROBLEM	CAUSE	CORRECTION
Poor cut - uneven	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel. 5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	<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.
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) 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). 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 917.270530

SCHEMATIC



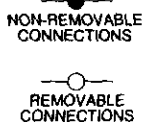
NOTE
 YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



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

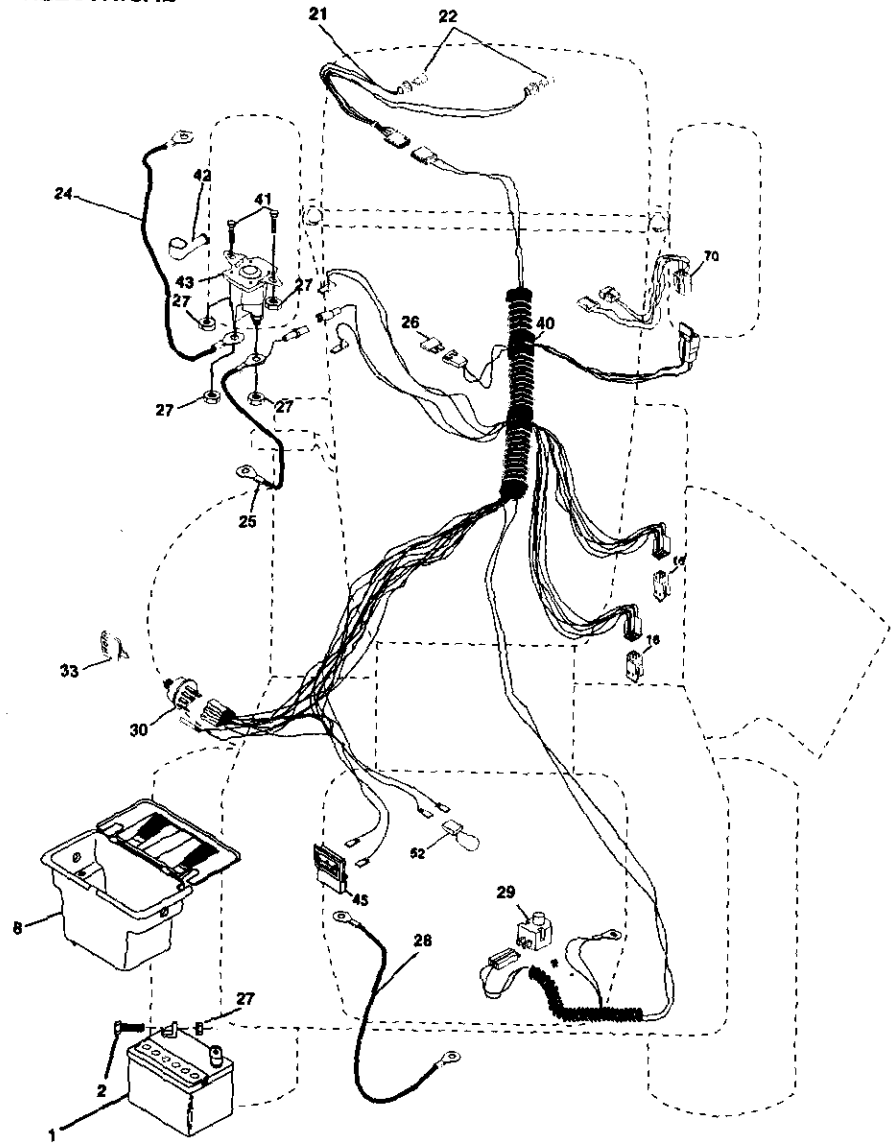
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



REPAIR PARTS

TRACTOR - MODEL NUMBER 917.270530

ELECTRICAL



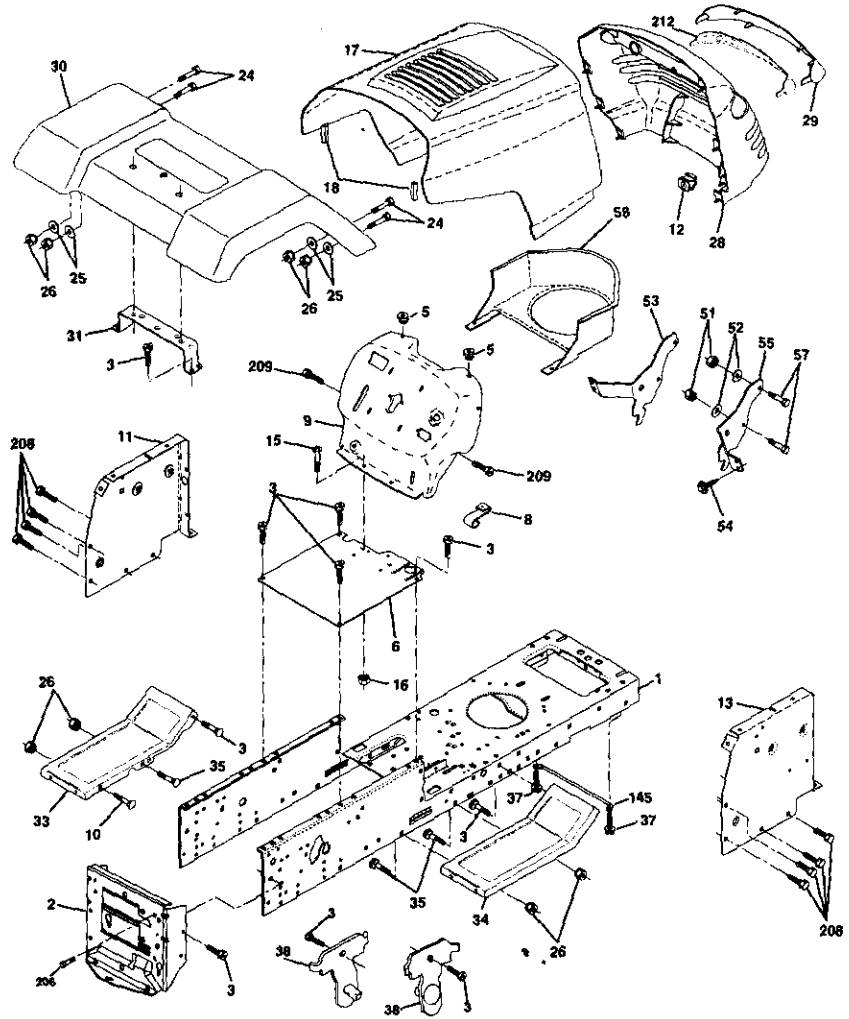
TRACTOR -- MODEL NUMBER 917.270530

ELECTRICAL

KEY PART NO.	PART 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
20	73350400	Nut Jam Hex 1/4-20 Unc
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	166180	Fuse 15 AMP
27	73510400	Nut Keps Hex 1/4-20 Unc
28	4207J	Cable Ground 6ga 12" black
29	121305X	Switch Plunger Nc Gray
30	163968	Switch Ign Delta Push-in
33	140403	Key Ign Molded Craftsman, Delta
40	170217	Harness Ign
41	71110408	Bolt Blk Hex 1/4-20unc x 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
45	121433X	Ammeter Rectangular 6 AMP
52	141940	Protection Wire Loop
70	170243	Harness Engine, B&S

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

TRACTOR - MODEL NUMBER 917.270530
CHASSIS AND ENCLOSURES

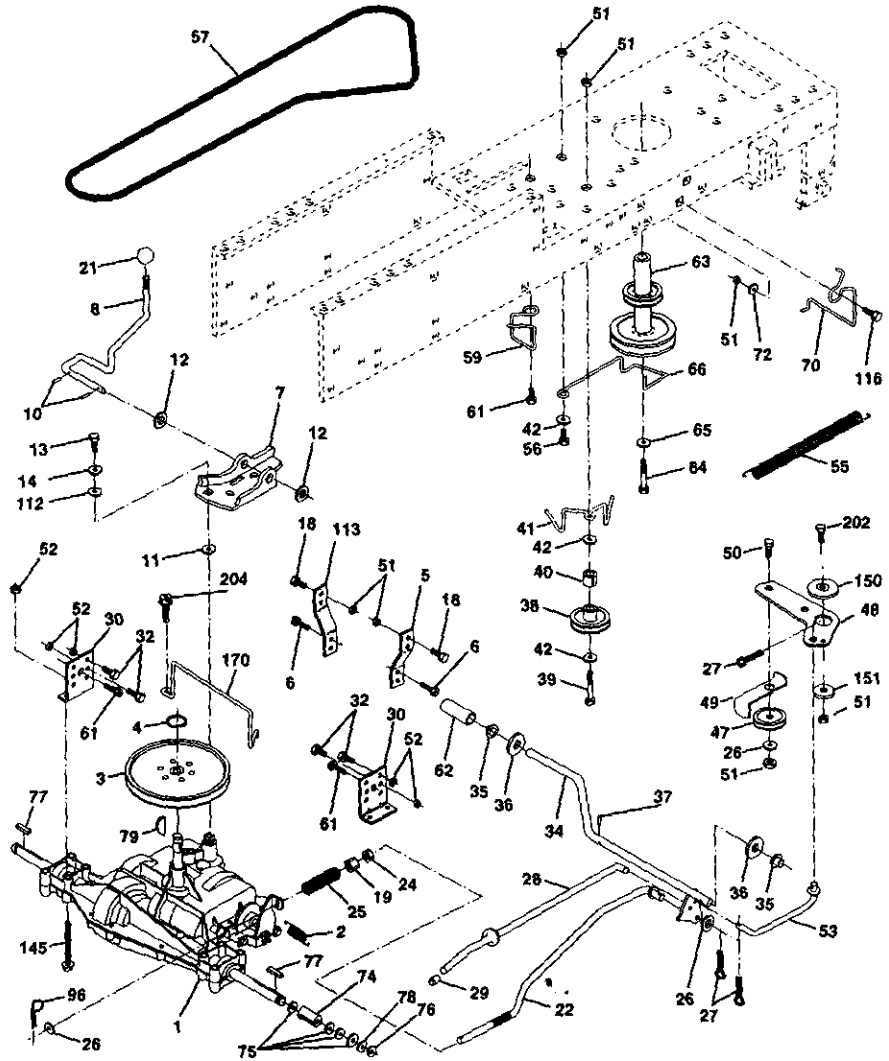


TRACTOR -- MODEL NUMBER 917.270530
CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DESCRIPTION
1 169831	Chassis Lt Stamping
2 169061	Drawbar
3 17060612	Screw 3/8-16 x 3/4
4 19131216	Washer 13/32 x 3/4 x 16 Ga.
5 155272	Bumper Hood/Dash
6 155924X012	Saddle SLKSCRE FLT SDL
8 126471X	Clip Insulator .406 Mtg Hole
9 168348X010	Dash Slkscr Ptm 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 169117X010	Panel Dash Rh
14 17670608	Screw Thdrol. 3/8-16 x 1/2
15 74180512	Screw Mach Thrd 5/16-18unc x 3/4
16 73510500	Nu Keps 5/16-18unc
17 159639X558	Hood Pnt Steel Private Label
18 126938X	Bumper Hood
24 74780618	Bolt Fin Hex 3/8-18 Unc x 1 Gr. 5
25 19131312	Washer 13/32 x 13/16 x 12 Ga.
26 73800600	Nut Lock Hex w/Ins 3/8-16 Unc
28 157373	Grill Private Label Blk
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 Tyl
38 169834	Bracket Asm. Pivot Mower Rear
51 73800400	Nut Lock Hex W/Ins. 1/4-20
52 19091416	Washer 9/32 x 7/8 x 16 Ga.
53 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
194 17060612	Screw 3/8-16 x 3/4
206 170165	Bolt Shoulder 5/16-18 TT
209 17000612	Screw Hex Wsh Thdrol 3/8-16 BL
-- 5479J	Plug Button Blk .359 Dia. Choke

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

TRACTOR -- MODEL NUMBER 917.270530
GROUND DRIVE



TRACTOR-- MODEL NUMBER 917.270530

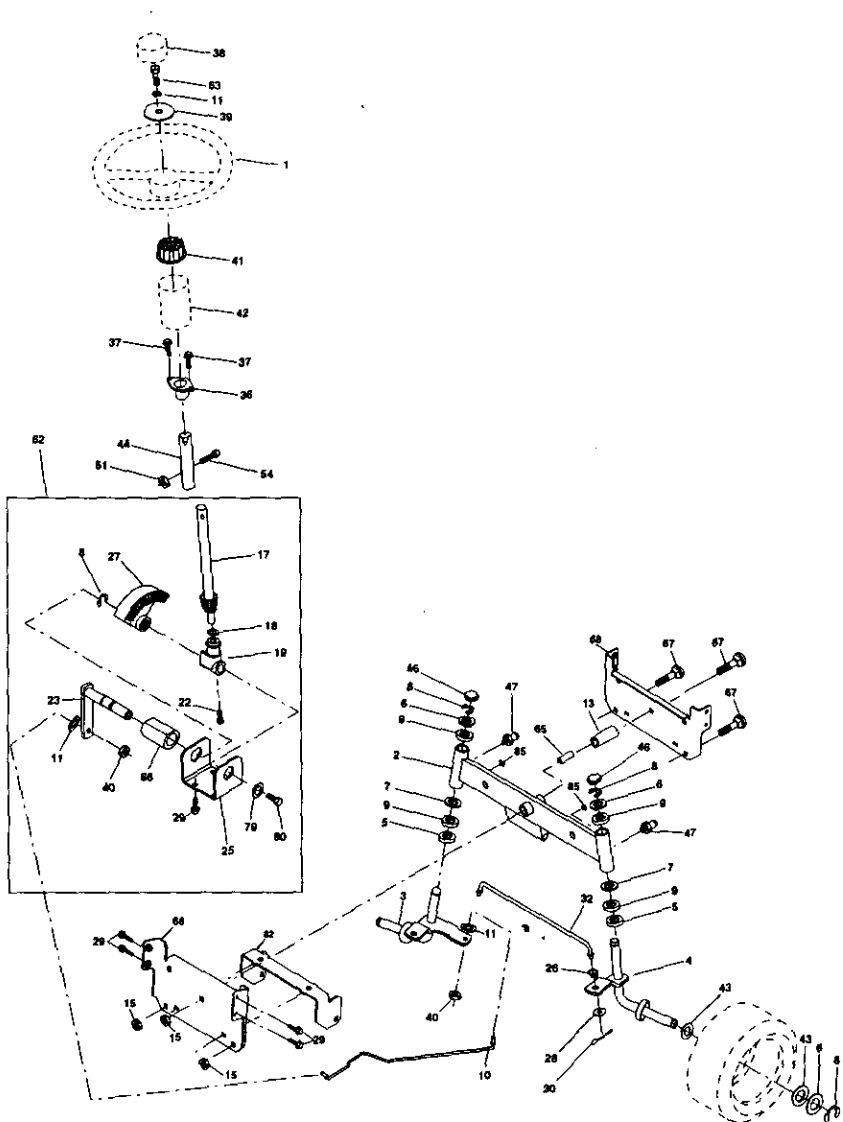
GROUND DRIVE

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	-----	47	127783 Pulley Idler V Groove Plastic
2	146682	48	154407 Belcrank Clutch Gm Drv Sft
3	123666X	49	123205X Retainer Belt Style Spring
4	12000028	50	STD523715 Bolt Hex Hd 3/8-16unc x 1-1/2
5	121520X	51	STD541437 Nut Crownlock 3/8-16 UNC
6	17060512	52	STD541431 Nut Crown Lock 5/16-18
7	162240	53	105710X Link Clutch 7 66
8	131679	55	105709X Spring Return Clutch 6 75
10	STD561210	56	STD523712 Bolt Fin Hex 3/8-16 unc x 1-1/4
11	105701X	57	130801 V-Belt Gd Drive
12	19151216	58	127274X Keeper Belt RH LT Pnl/zinc 16g
13	74550412	59	169595 Keeper Belt Centerspan
14	STD551125	61	17060612 Screw 3/8-16 x 3/4
18	STD523710	62	8883R Cover Pedal Blk Round
19	STD541437	63	140186 Pulley Eng Cl Mech 38deg LT/YT
21	106933X	64	71170764 Bolt Hex 7/16-20 x 4 Gr 5
22	130804	65	STD551143 Washer Lock Hvy Hcl Spr 7/16
24	STD541237	66	154778 Keeper Belt Engine
25	106688X	70	134683 Guide Belt Mower Drive RH
26	STD551037	72	19132012 Washer 13/32 x 1-1/4 x 12 Ga
27	STD561210	74	137057 Spacer Axle
28	145204	75	121749X Washer 25/32 x 1 1/4 x 16 Ga
29	71673	76	STD581075 E-ring #5133-75
30	130807	77	123583X Key Square 2 0 x 1845/ 1865
31	127275X	78	121748X Washer 25/32 x 1-5/8 x 16ga
32	STD523107	79	2228M Key Woodruff #9 3/16 x 3/4
34	155071	96	4497H Retainer Spring
35	120183X	112	19091210 Washer 9/32 x 3/4 x 10 Ga
36	STD551062	113	127285X Strap Torque
37	STD571810	116	72110610 Bolt Rdhd Sq Neck 3/8-16 x 1.25
38	131494	145	74490540 Bolt Hex FLGHD 5/16-18 Gr. 5
39	72110622	150	165850 Bushing Belcrank Grd. Drive
40	4470J	151	19133210 Washer 13/32 x 2 x 10 Ga
41	165838	170	165849 Keeper Belt Transaxle Gear
42	19131312	202	72110612 Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5

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

TRACTOR--MODEL NUMBER 917.270530

STEERING



TRACTOR - MODEL NUMBER 917.270530

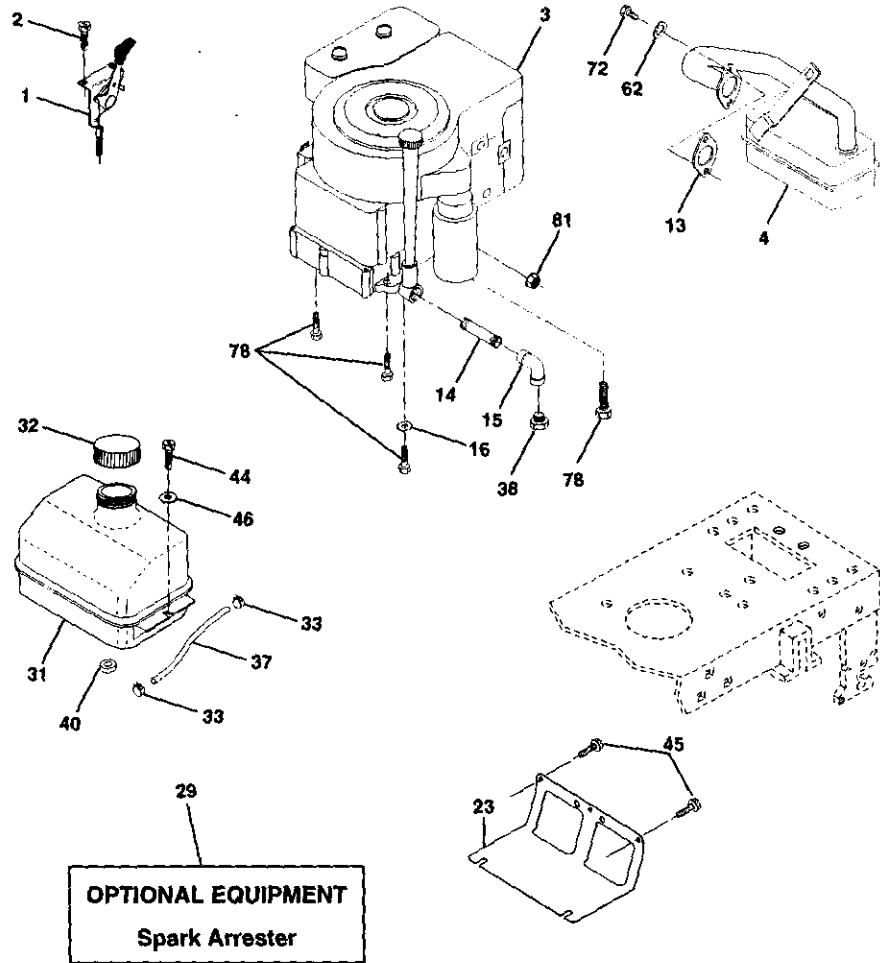
STEERING

KEY PART NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering Opp Sears Bik
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	RingKlip#T5304-75
9	3366F	Bearing Col Strg Bik
10	169832	Draglink
11	10040600	Washer Lock Hvy Hlcl Spr 3/8
13	136518	Spacer Brg Axle Front
15	145212	Nut Hexflange Lock
17	156546	Shaft Asm Strg
18	57079	Washer Thrust .515 x .750 x .033
19	160395	Support Shaft
22	165857	Screw Hex Wsh Hd Torx
23	165851	Shaft Asm Pitman
25	154406	Bracket Steering
26	126847X	Bushing Link Drag Bik 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
30	STD561210	Pin Cotter 1/8 x 3/4 Cad
32	130465	Rod Tie Wire Form 19.75 Mech
36	155099	Bushing Strg. 5/8 ID Dash
37	152927	Screw
38	139769	Cap Wheel Stear 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 Bik
43	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
44	153720	Extension Steering Non-adjust
46	121232X	Cap Spindle Fr Top Bik
47	6855M	Fitting Grease
51	73800500	Nut Lock Hx W/ins 5/16-18unc
54	74780520	Bolt Fin Hex 5/16-18unc
62	167902	Steering Assembly
63	74780616	Bolt Fin Hex 3/8-16unc x 1 Gr. 5
65	160367	Spacer Axle
66	154404	Bearing Arm Pittman
67	72110618	Bolt Rdhd Sqnk 3/8-16 x 2-1/4
68	169827	Brace Axle
79	19132012	Washer 13/32 x 1-1/4 x 12 Ga
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4
82	169835	Bracket Susp Chasis Front
85	133835	Fastner Christmas Tree

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

TRACTOR - MODEL NUMBER 917.270530

ENGINE



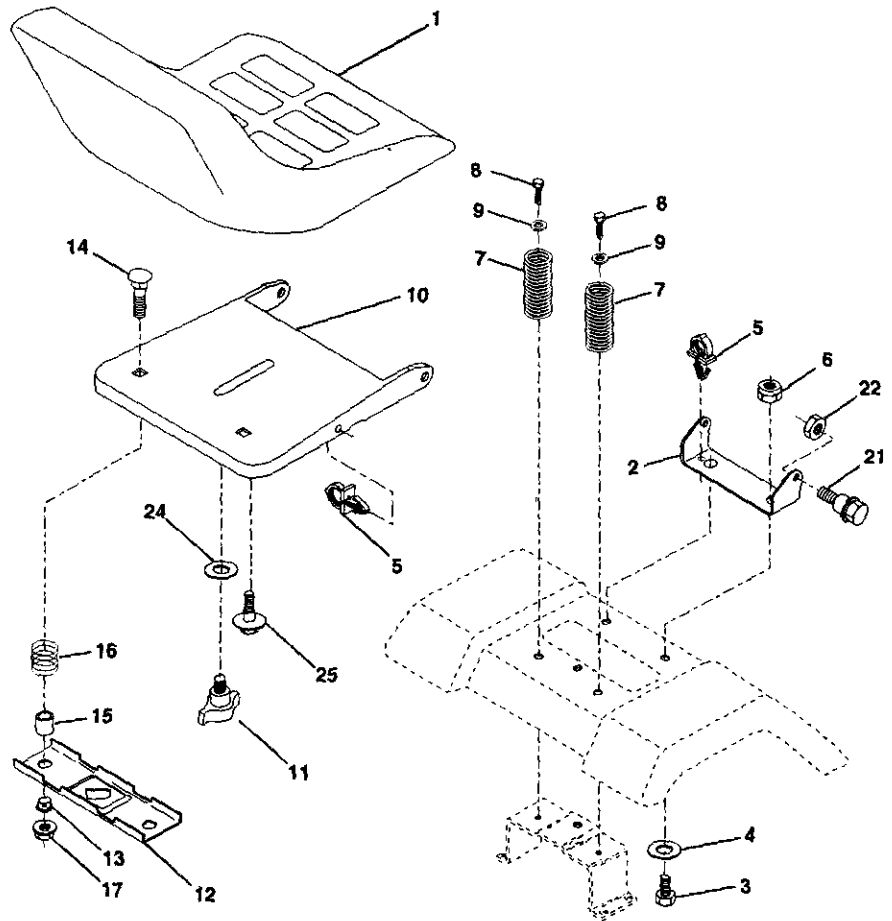
TRACTOR -- MODEL NUMBER 917.270530

ENGINE

KEY PART NO. NO.	DESCRIPTION
1 162157	Control Th/ch LH IV 1 80 20 22
2 17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3 -----	Engine (See Breakdown)
4 137352	Briggs, Model No 287707-1255-E1
13 165291	Muffler Exh LT B&S 14HP IC OHV
14 13280324	Gasket Eng 1 313 Id Tin Plated
15 13200300	Nipple Pipe 3/8 Npt x 3"
16 STD551237	Elbow Std 90 Degree 3/8-18 Npt
23 169837	Washer Lock Ext Tooth 3/8
29 137180	Shield Browning/Debris Guard
31 109202X	Kit Spark Arrestor (Flat Scrn)
32 158990	Tank Fuel Front 1 25
33 123487X	Cap Asm Fuel Sears Vented
37 137040	Clamp Hose Blk
38 -----	Line Fuel 20"
	Plug Oil Drain
	(See Engine Breakdown)
40 124028X	Bushing Snap Nyl Blk Fuel Line
44 17490412	Screw Hexwsh Thdrol 1/4-20 x 3/4
45 17060612	Screw 3/8-16 x 3/4
46 19091416	Washer 9/32 x 7/8 x 16 ga
62 STD551131	Washer Lock Hvy Hchl 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 128861	Nut Flange 1/4-20 Starter Nut

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

TRACTOR -- MODEL NUMBER 917.270530
SEAT ASSEMBLY



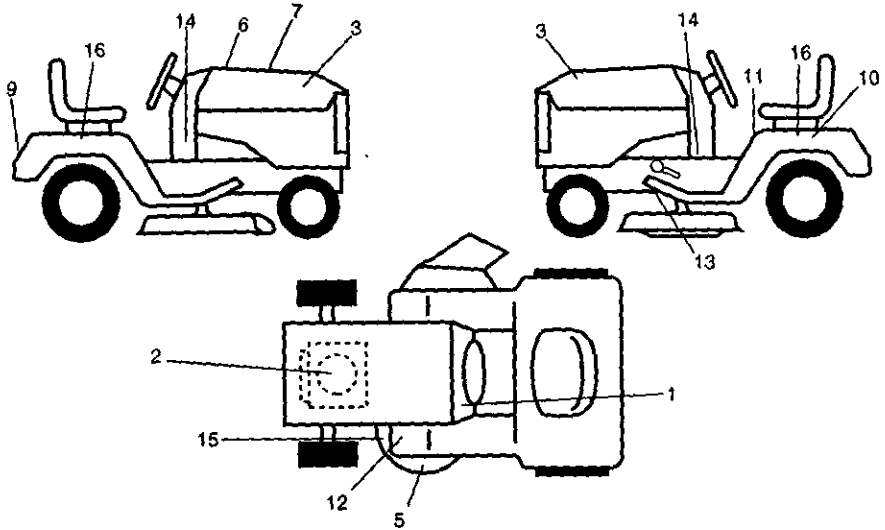
KEY PART NO. NO.	DESCRIPTION
1 140122	Seat
2 140551	Bracket Pvt St
3 71110616	Bolt Fin Hex 3/8-16unc X 1
4 19131610	Washer Flat 13/32 X 1 X 10 Ga
5 145006	Clip Push-In Hinged
6 STD541437	Locknut Hex W/Wsh 3/8-16
7 124181X	Spring Seat Cprsn 2 250 Blk Zi
8 17000616	Screw 3/8-16 X 1-1/2
9 19131614	Washer 13/32 X 1 X 14 Ga
10 155925	Pan Seat
11 166369	Knob Seat 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 Flg 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 127018	Bolt Shoulder

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

TRACTOR--MODEL NUMBER 917.270530

DECALS



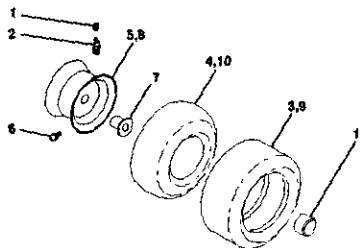
KEY PART NO. NO.	DESCRIPTION
1	156867
2	165393
3	171704
5	133179
6	133644
7	171760
9	163204
10	149516

DESCRIPTION
Decal Dash Inst Oper English
Decal HP Engine
Decal Hood Logo
Decal Mower QC System
Decal Maint Cust Sears Domesti
Decal Replomnt Sears
Decal Fender Craftsman White
Decal Battery Dngr/Psn Eng Acme

KEY PART NO. NO.	DESCRIPTION
11	156439
12	4900J
13	146046
14	163249
15	160396
16	163207
--	157199X428
--	138311
--	171766
--	171767

DESCRIPTION
Decal Danger Fender/Eng/span
Decal Clutch/brake English
Decal V-Belt Dr Sch Tractor
Decal Panel Dash 6sp 42"
Decal V-Belt Sch
Decal Fender Sd 6/42
Pad Footrest
Decal Handle Lft Height Adjust
Manual Owners English
Manual Owners Spanish

WHEELS AND TIRES

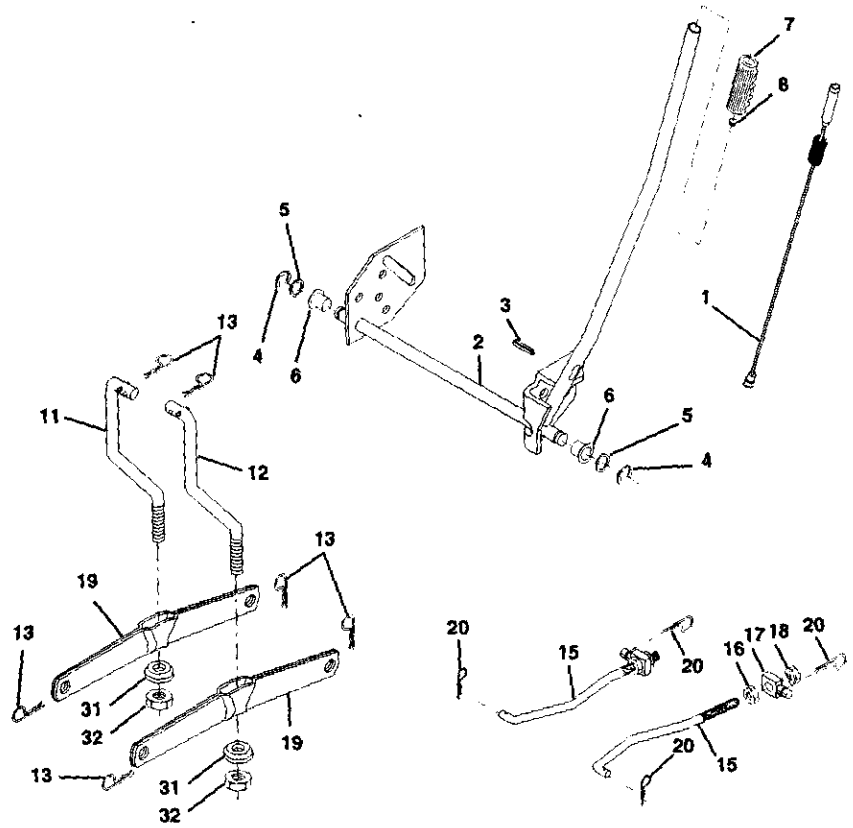


KEY PART NO. NO.	DESCRIPTION
1	59192
2	65139
3	106222X
4	59904
5	106732X427
6	278H
7	9040H
8	106108X427
9	106268X
10	7152J
11	104757X
--	144334

DESCRIPTION
Cap Valve Tire
Stem Valve
Tire F Ts 15 X 6 0 - 6 Service
Tube Inner Front #35060
Rim Asm 6"front White Service
Fitting Grease
Bearing Flange
Rim Asm 8"rear White Service
Tire R Ts 18x9 5-8 Service
Tube Rear 9 5 X 8 Service
Cap Axle Blk 1 50 X 1 00
Sealant, Tire (10 oz. tube)

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

TRACTOR -- MODEL NUMBER 917.270530
LIFT ASSEMBLY



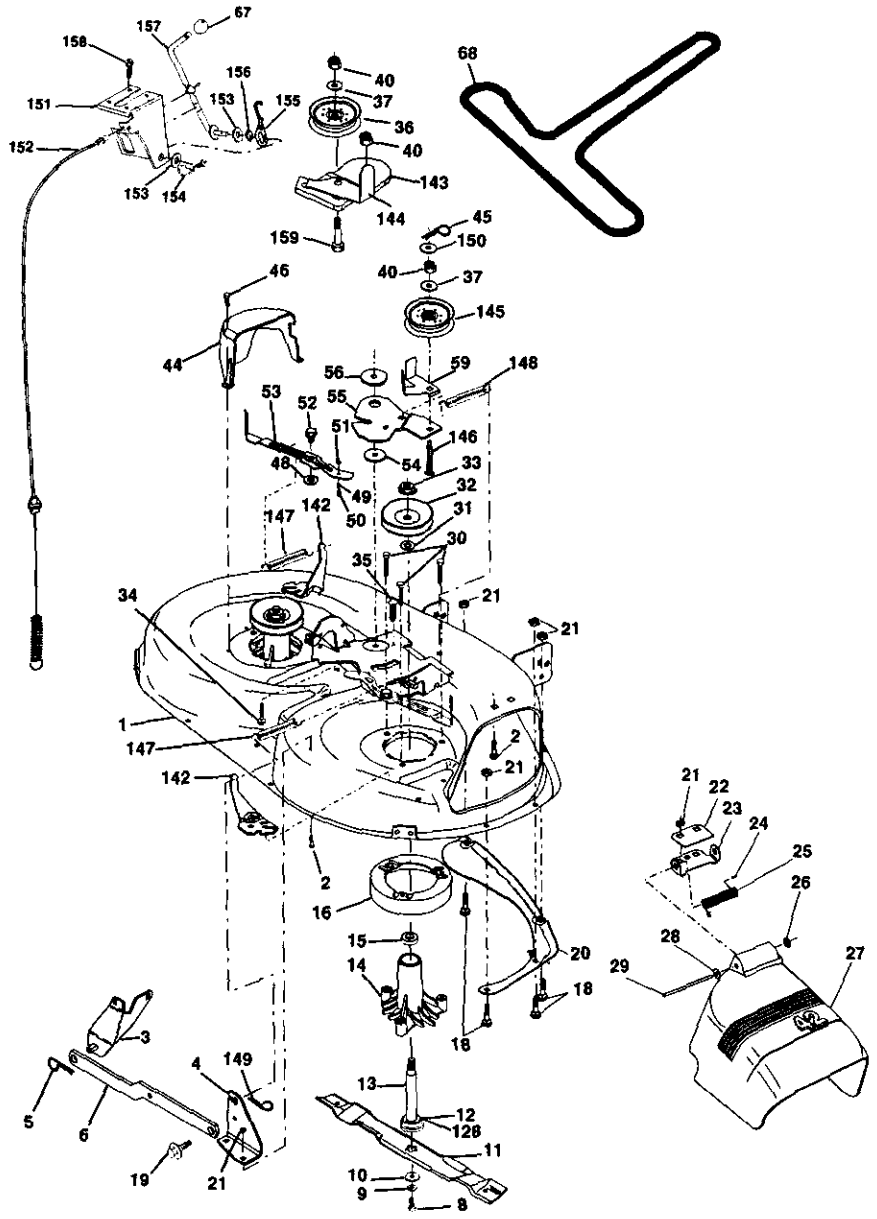
TRACTOR--MODEL NUMBER 917.270530
LIFT ASSEMBLY

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 21ga
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 167253	Link Front
16 73350800	Nut Jam Hex 1/2-13 Unc
17 130171	Trunnion Blk Zinc
18 73800900	Nut Lock W/Wsh 1/2-13unc
19 139868	Arm Suspension Rear
20 163552	Retainer Spring Zinc
31 140302	Bearing Pvt Lift Spherical
32 73540600	Nut Crownlock 3/8-24

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

TRACTOR--MODEL NUMBER 917.270530

MOWER DECK



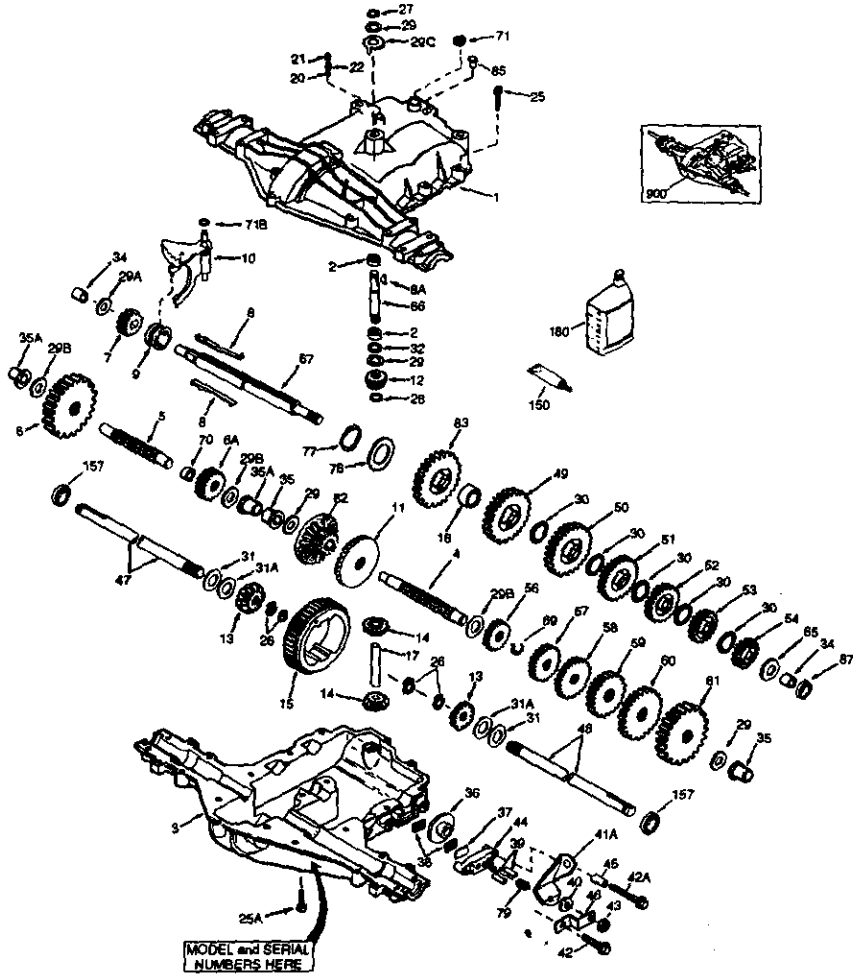
TRACTOR -- MODEL NUMBER 917.270530

MOWER DECK

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 165892	Mower Deck Assembly, 42"	46 137729	Screw, Thd. Roll 1/4-20 x 5/8
2 STD533107	Bolt	48 133944	Washer, Hardened
3 138017	Bracket Assembly, Sway Bar, Front	49 155066	Roller Assembly, Cam 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 139888	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 155046	Arm, Idler
11 134149	Blade, Mulching	56 165723	Spacer, Retainer
12 129895	Bearing, Ball	59 141043	Guard, TUV Idler
13 137645	Shaft Assembly, Mandrel, Vented (Includes Key Number 12)	67 149846	Knob Custom Oval
14 128774	Housing, Mandrel, Vented	68 144959	V-Belt
15 110485X	Bearing, Ball, Mandrel	128 153390	Washer Felt
16 140329	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 165891	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 137266	Nut, Toplock, Flanged	158 17720410	Screw Hex Thd Cut 1/4-20 x 5/8
34 STD533717	Bolt	159 72140614	Bolt Rdhd Sqd 3/8-16unc x 1-3/4
35 133835	Fastner, Christmas Tree	-- 130794	Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)
36 131494	Pulley, Idler, Flat	-- 169583	Mower Deck, Complete (Standard Deck, Order Separately Mulcher Plate and Gauge Wheel Components, Key Nos. 101-106 and 111-121)
37 STD551037	Washer 13/32 x 13/16 x 16 Gauge		
40 STD541437	Nut Crownlock 3/8-16 UNC		
44 140088	Guard, Mandrel, L.H.		
45 STD624003	Retainer		

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

**TRACTOR--MODEL NUMBER 917.270530
PEERLESS TRANSAXLE--MODEL NUMBER 206-545C**

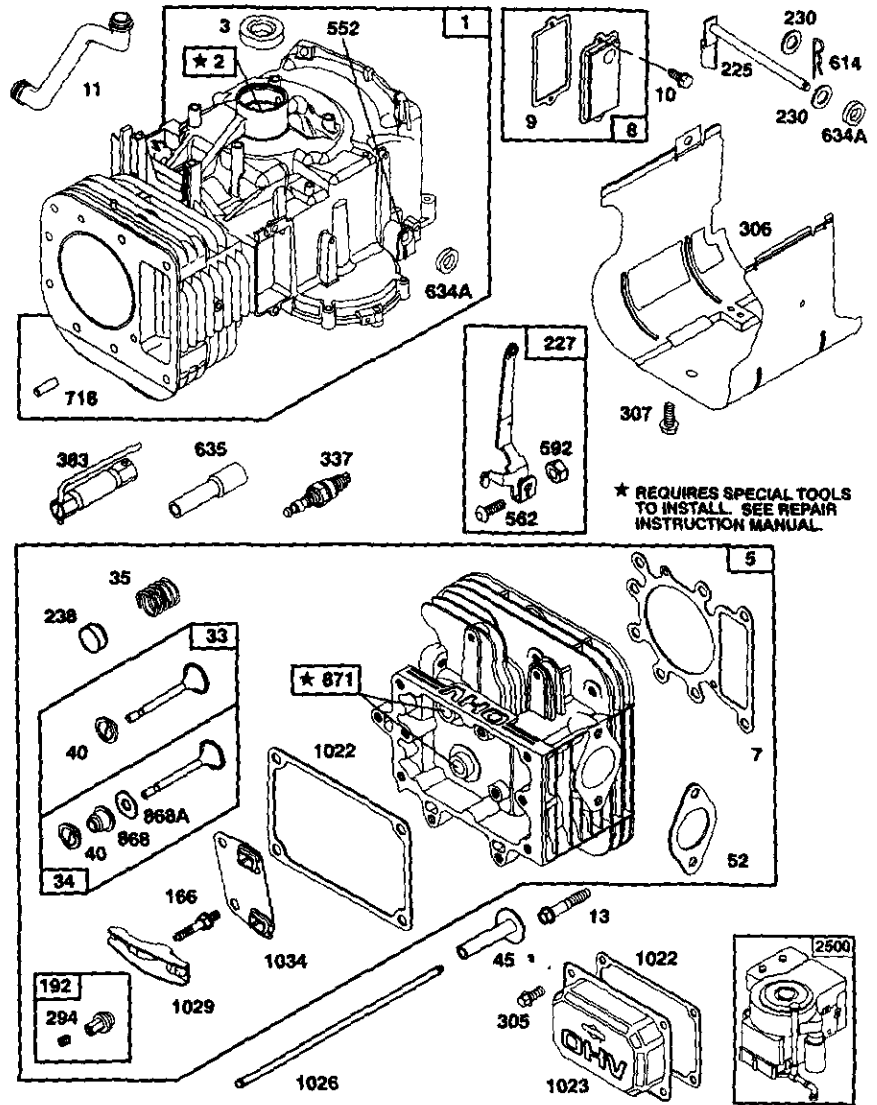


TRACTOR--MODEL NUMBER 917.270530
PEERLESS TRANSAXLE--MODEL NUMBER 206-545C

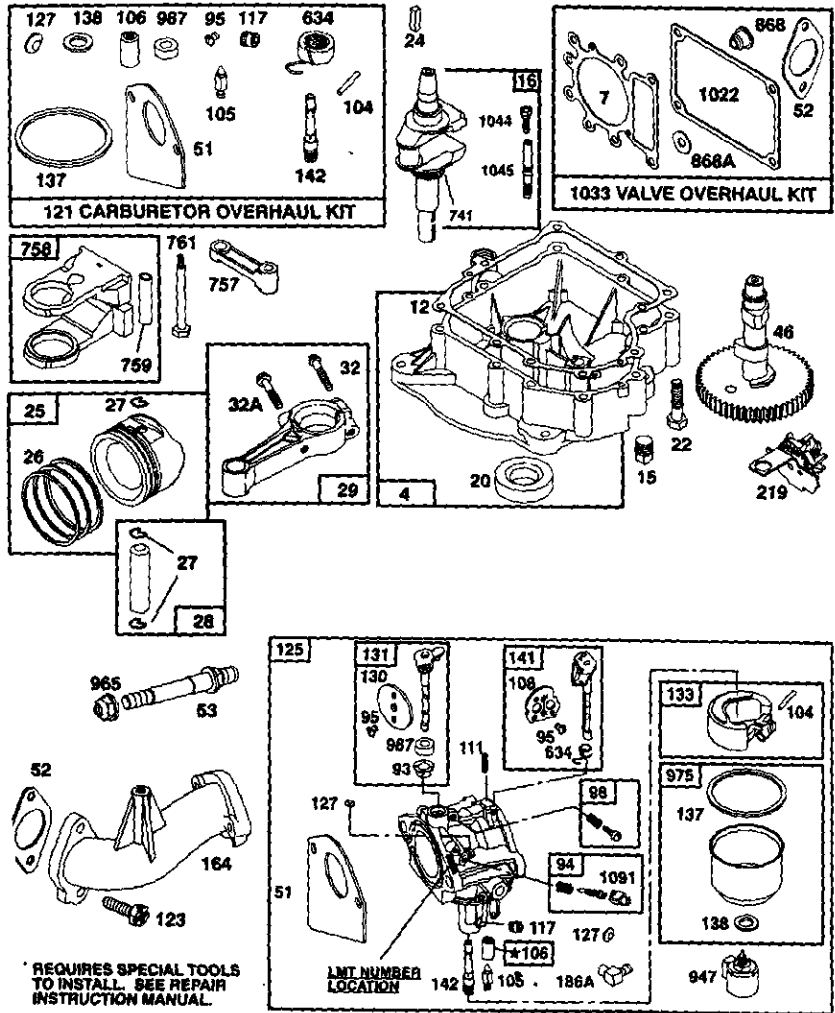
KEY PART NO.	PART NO.	DESCRIPTION	KEY PART NO.	PART NO.	DESCRIPTION
1	772147	Transaxle Cover	41A	790079	Brake Lever
2	780086A	Needle Bearing 5/8"	42	792073A	Screw 1/4 - 20 x 1-1/4"
3	770128	Transaxle Case	42A	792085A	Screw 1/4 - 20 x 2 1/4"
4	776395	Countershaft	43	792075	Locknut 5 / 16 - 24
5	776409	Output Shaft	44	790025	Brake Pad Holder
6	778364	Spur Gear (38 teeth)	45	786066	Spacer .2625 x 1.0
6A	778369	Spur Gear (15 teeth)	46	786086	Brake Lever Bracket
7	778330	Spur Gear (11 teeth)	47	774690	Axle (11-15 / 16" Long)
8	792180	Shift Key	48	774691	Axle (16 - 1 / 2" long)
8A	792047	Woodruff Key #9	49	778356	Spur Gear (29 teeth)
9	784352	Shift Collar	50	778338	Spur Gear (27 teeth)
10	784378	Shift Rod & Fork	51	778354	Spur Gear (23 teeth)
11	778334	Bevel Gear (30 teeth)	52	778352	Spur Gear (19 teeth)
12	778309	Input Bevel Pinion (13 teeth)	53	778350	Spur Gear (16 teeth)
13	778368	Bevel Gear (13 teeth) (Include. 14)	54	778346	Spur Gear (15 teeth)
14	778368	Bevel Pinion (13 teeth) (Include. 13)	56	778355	Spur Gear (11 teeth)
15	778370	Ring Gear (43 teeth)	57	778337	Spur Gear (13 teeth)
17	786188	Drive Pin	58	778353	Spur Gear (17 teeth)
18	786102	Spacer 1.130 X .695	59	778351	Spur Gear (21 teeth)
20	792077A	Ball 5/16" dia	60	778349	Spur Gear (24 teeth)
21	792078	Set Screw 3/8 - 16 x 3/8"	61	778345	Spur Gear (25 teeth)
22	792079	Spring .310 OD x .625 L	65	780189	Flat Washer .563 ID x .062W
25	792073A	Screw 1/4 - 20 x 1-1/4"	66	776422	Input Shaft
25A	792177	Screw 1/4-20 x 1-3/8"	67	776396	Shifter & Brake Shaft
26	792125	Retaining Ring (pkg of 2)	69	792170	Retaining Ring
27	792035	Retaining Ring	70	786187	Spacer .890
28	788040	Retaining Ring	71	788069	Square Cut Ring
29	780072	Thrust Washer .627 ID x .031W	71B	788092	"O" Ring
29A	780160	Thrust Washer .762 ID x .031W	76	780090	Flat Washer 1.128 ID x .058W
29B	780051	Thrust Washer .762 ID x .031W	77	788078A	Inverted Retaining Ring
29C	780199	Anti-Rotation Washer .632	79	792144	Spring .430 OD x .5000 L
30	780108	Cup Washer 1.127 ID x .032W	82	778333	Bevel & Spur Gear (30 & 13 teeth)
31	780001	Flat Washer .750 ID x .056W (Use As Needed)	83	778338	Spur Gear (27 teeth)
31A	780195	Flat Washer .750 ID x .062W	85	792154	Oil Fill Plug
32	788083	Oil Seal 5/8"	87	788089A	Oil Seal 9 / 16"
34	780194	Bushing .563	150	788093A	Liquid Gasket RTV Silicone
35	780193	Flanged Bushing 5 / 8" ID	157	788088A	Oil Seal 3 / 4"
35A	780197	Flanged Bushing .751 ID	180	730229A	Gear Oil 80W90
36	790075	Brake Disk	900	794712	Replacement MST-206-545C Transaxle
37	790007	Brake Pad Plate			
38	799021	Brake Pad (pkg of 2)			
39	786026	Dowel Pin			
40	792076A	Flat Washer .312 ID x .059W			

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

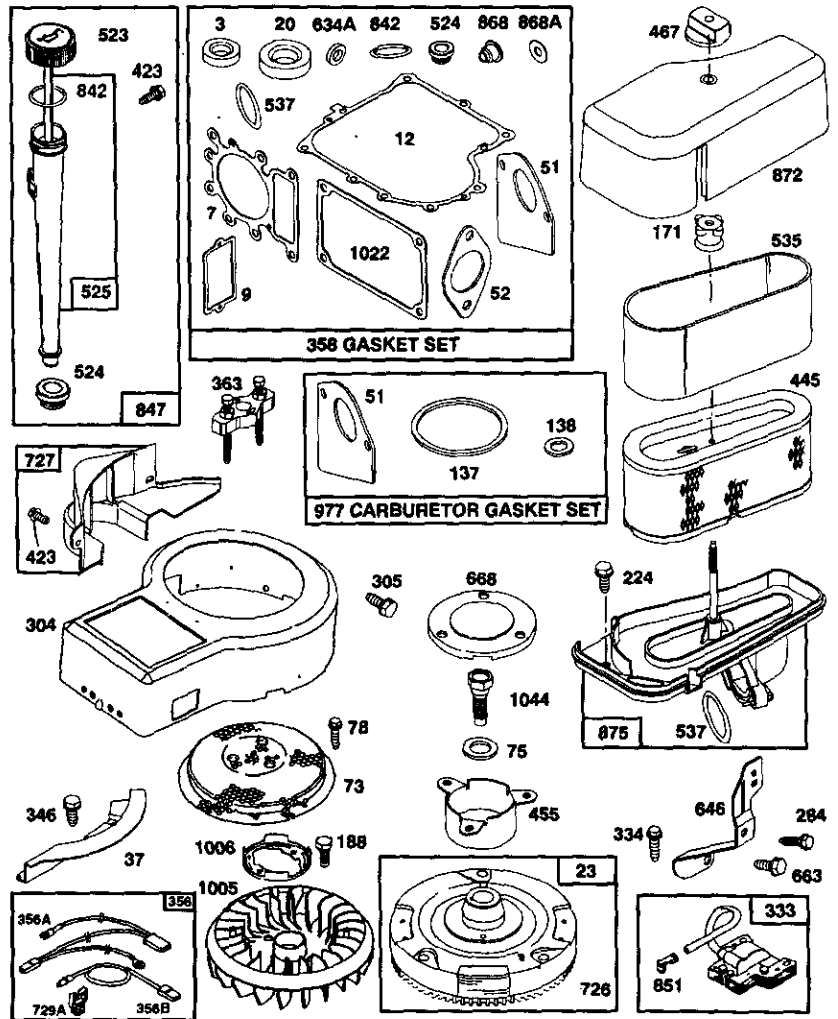
TRACTOR--MODEL NUMBER 917.270530
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E1



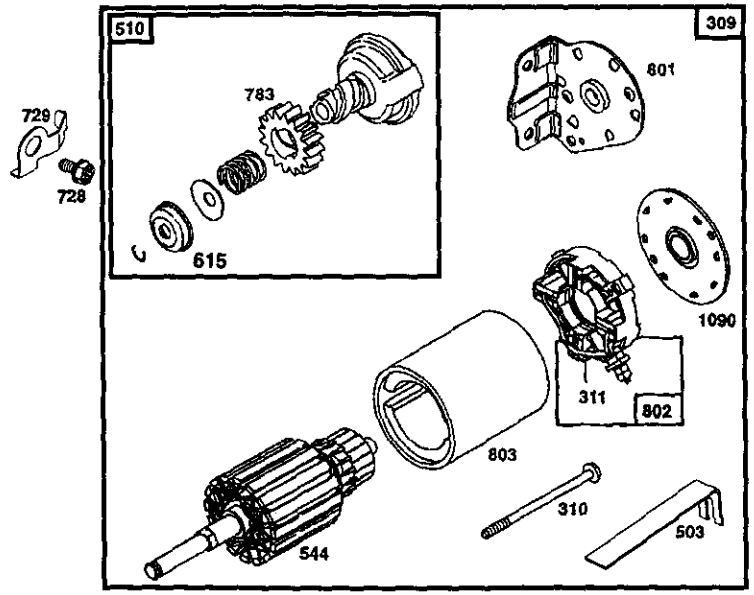
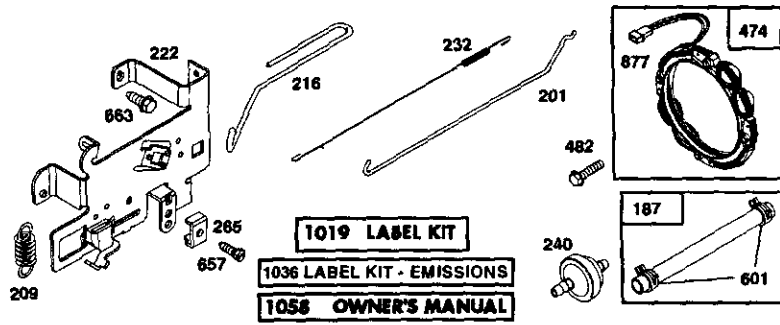
TRACTOR - MODEL NUMBER 917.270530
BRIGGS & STRATTON ENGINE - MODEL NUMBER 287707, TYPE NUMBER 1255-E1



TRACTOR -- MODEL NUMBER 917.270530
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E1



TRACTOR - MODEL NUMBER 917.270530
BRIGGS & STRATTON ENGINE - MODEL NUMBER 287707, TYPE NUMBER 1255-E1



TRACTOR -- MODEL NUMBER 917.270530
BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	53	94637	Stud, Carburetor Mounting
2	399265	Bearing, Cylinder	73	224948	Screen, Flush Rotating
3	391086	* Seal, Oil	75	225136	Washer, Spring
4	494238	Base, Engine	78	94626	Screw, Sems
5	495858	Head, Cylinder	93	281346	Bushing, Throttle Shaft
7	272614	*** Gasket, Cylinder Head	94	498030	Valve, Needle
8	495735	Breather Assembly	95	94098	** Screw, Throttle
9	27803	* Gasket, Valve Cover	98	495800	Screw, Idle Speed
10	94621	Screw, Sems	104	231789	** Pin, Float Hinge
11	281246	Tube, Breather	105	231855	** Valve Float
12	271916	* Gasket, Crankcase Cover, 1/64"	106	231854	** Seat, Inlet Valve
	271997	* Gasket, Crankcase Cover, .005"	108	224540	Valve, Choke
	271996	* Gasket, Crankcase Cover, .009"	111	262719	Spring, Choke
13	94728	Screw, Cylinder Head	117	232118	Jet, Main (Std.)
15	94239	Plug, Oil Drain		232119	Jet, Main (Hi-Alt.)
16	495162	Crankshaft	121	499233	Carburetor Overhaul Kit
	94196	Timing Gear Key	123	94913	Screw, Elbow Mounting
20	291675	* Seal, Oil	125	499153	Carburetor Assembly
22	94624	Screw, Sems, Base Mounting	127	- - -	** Plug, Welch (Sold in Kit Only)
23	492326	Flywheel and Ring Gear Assembly, Magneto	130	224539	Valve, Throttle
24	222698	Key, Flywheel	131	494379	Shaft and Lever, Throttle
25	495860	Piston Assembly, Standard Size	133	494381	Float, Carburetor
	495977	Piston Assembly, .010" Oversize	137	281165****	Gasket, Float Bowl
	495978	Piston Assembly, .020" Oversize	138	281164****	Washer, Bowl
	495979	Piston Assembly, .030" Oversize	141	495931	Shaft and Lever, Choke
26	495854	Ring Set, Piston, Standard Size	142	232117	Nozzle, Carburetor
	495852	Ring Set, Piston, .010" Oversize	164	214047	Elbow, Carburetor
	495851	Ring Set, Piston, .020" Oversize	166	94555	Stud, Rocker Arm
	495855	Ring Set, Piston, .030" Oversize	171	281051	Nut, Air Cleaner Mounting
27	263129	Lock, Piston Pin	186A	493496	Elbow, Fuel Pipe
28	498319	Pin Assy., Piston, Standard Size	187	492790	Line, Fuel (11" Long, Cut to Suit)
29	494504	Rod Assembly, Connecting	188	94627	Screw, Hex Head, 3/4
	495490	Rod Assembly, Connecting, .020" Undersize Crankpin Bore	192	492160	Screw Assembly, Rocker Arm
32	94695	Screw, Hex Washer Head, 1-5/16"	201	262767	Link, Governor
32A	94648	Screw, Hex Washer Head, 1-5/8"	209	260695	Spring, Governor
33	495856	Valve, Exhaust	216	262766	Link, Choke
34	495857	Valve, Intake	219	490815	Gear, Governor
35	262811	Spring, Valve	222	495611	Plate, Governor Control
37	224502	Guard, Flywheel	224	94729	Screw, Sems, Air Cleaner
40	224641	Retainer, Valve Spring	225	495157	Crank, Governor
45	262411	Tappet, Valve	227	493935	Lever Assembly, Governor
46	496884	Gear, Cam	230	94927	Washer, Governor Crank
51	272465	**** Gasket, Carburetor (Carburetor to Elbow)	232	262785	Spring, Governor Link
52	272569	*** Gasket, Carburetor (Elbow to Cylinder)	238	262836	Cap, Valve
			240	394358	Filter, Fuel (In Fuel Line)
			265	221535	Clamp, Casing
			*		Included in Gasket Set (495993)
			**		Included in Carburetor Kit (499233)
			***		Included in Both Gasket Set (495993) and Valve Overhaul Kit (495992)
			****		Included in Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (494385)

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

TRACTOR -- MODEL NUMBER 917.270530

BRIGGS & STRATTON ENGINE-MODEL NUMBER 287707, TYPE NUMBER 1255-E1

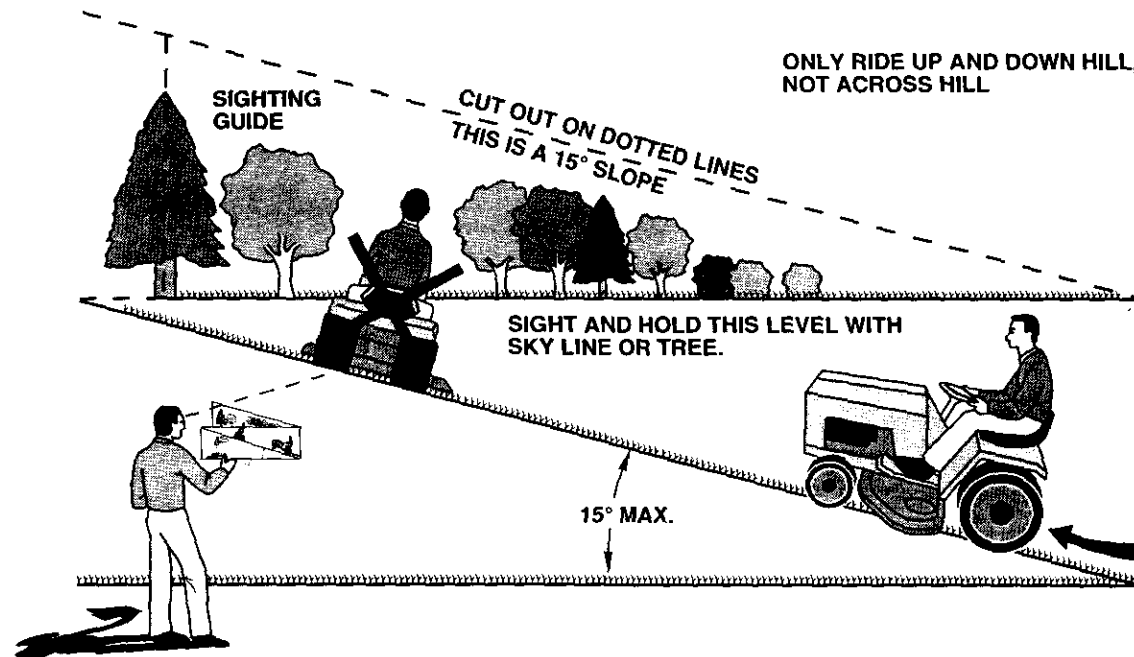
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
284	94704	Screw, Hex Head	757	213998	Link, Counterweight
294	810068	Screw, Set	758	399891	Counterweight Assembly
304	496318	Housing, Blower	759	298909	Pin, Counterweight
305	94786	Screw, Hex, Head, Blower Housing Mounting	761	94593	Screw, Counterweight
306	225020	Shield, Cylinder	783	280104	Gear, Starter
307	94930	Screw, Cylinder Shield	801	394856	Cap, Drive
309	497595	Motor, Starter	802	497605	Cap, End
310	497602	Bolt, Thru	803	497604	Housing, Starter
311	497608	Brush Set	842	270920	* Seal, Oil Filler Cap
333	495859	Armature, Magneto	847	496415	Fill Group, Oil
334	94731	Screw, Sems, Armature Mounting	851	493880	Terminal, Ignition Cable
337	491055	Plug, Spark	868	494435	*** Seal Assembly, Valve
346	93705	Screw, Hex Head	868A	272610	*** Gasket, Valve
356	497708	Wire Assembly	871	262835	Bushing, Guide (Intake & Exhaust)
356A	497671	Wire, Stop	872	281104	Cover, Air Cleaner
356B	494705	Wire Stop	875	495862	Body, Air Cleaner
358	495993	Gasket Set	877	393456	Diode and Connector Assembly
363	19203	Puller, Flywheel	947	497672	Solenoid
383	89838	Wrench, Spark Plug	965	94108	Nut, Hex
423	94903	Screw, Sems	975	495933	Bowl Assembly, Carburetor
445	496894	Cartridge, Air Cleaner	977	494385	Carburetor Gasket Set
455	222561	Cup, Screen Mounting	987	281166	** Seal, Throttle Shaft
467	493903	Knob, Air Cleaner	1005	280687	Fan, Flywheel
474	393474	Stator, Alternator	1006	224413	Retainer, Fan
482	93621	Screw, Sems	1019	496758	Label Kit
503	806000	Grounding Strap	1022	272475	*** Gasket, Cover
510	497606	Drive, Starter	1023	224552	Cover, Rocker Arm
523	495230	Cap and Dipstick, Oil Filler	1026	494432	Rod, Push, Intake
524	281370	* Seal, Filler Tube		495136	Rod, Push, Exhaust
525	496113	Tube, Oil Filler	1029	224554	Arm, Rocker
535	272403	Element, Filter	1033	495992	Valve Overhaul Kit
537	281106	* O-Ring, Air Cleaner	1034	495248	Guide Assembly, Push Rod
544	497603	Armature, Starter	1036	499364	Label Kit, Emissions
552	231597	Bushing, Governor Crank	1044	94673	Screw, Hex Head
562	94907	Bolt, Governor Lever	1045	231828	Extension, Crankshaft
592	231978	Nut, Hex	1058	272623	Manual, Owner's
601	93053	Clamp, Fuel Pipe	1090	497607	Retainer, Brush
614	93306	Pin, Cotter	1091	281364	Cap, Limiter
615	263080	Retainer	2500	28N707-1026	Replacement Engine
634	494455	** Seal, Choke Shaft	—	496050	Replacement Shortblock
634A	491323	* Seal, Governor			
635	280872	Elbow, Spark Plug			
646	224546	Brace, Air Cleaner			
657	94906	Screw, Sems			
663	94929	Screw, Self-Tapping			
668	280848	Spacer			
718	230192	Pin, Dowel			
726	392134	Gear, Ring (Includes Mounting Hardware)			
727	490324	Cover, Starter			
728	94951	Screw, Hex Head			
729	225170	Retainer, Wire			
729A	281390	Clip, Wire			
741	262932	Gear, Timing			

RPM Settings: Low: 1650-1850, High: 3200-3400

- * Included In Gasket Set (495993)
- ** Included In Carburetor Kit (499233)
- *** Included In Both Gasket Set (495993) and Valve Overhaul Kit (495992)
- **** Included In Gasket Set (495993), Carburetor Kit (499233) and Carburetor Gasket Set (494385)

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

UPPER 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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