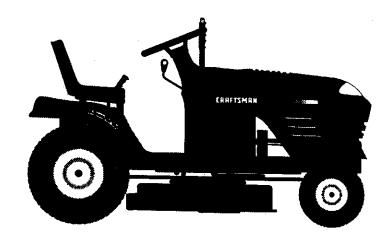
Owner's Manual

CRAFTSMAN°

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

Model No. 917.270653

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





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, II 60179 Visit our Craftsman website:www.sears.com/craftsman

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship.

This Warranty does not cover:

- · Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- · Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- · Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- · 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. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. 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

2

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.

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.

SAFETY RULES

- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- · Mow only in daylight or good artificial liaht.
- · Do not operate the machine while under the influence of alcohol or druas.
- · Watch for traffic when operating near or crossing roadways.
- · Use extra care when loading or unloading the machine into a trailer or truck.
- · Data indicates that operators, age 60 years and above, are involved in a large percentage of riding mowerrelated injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

SLOPE OPERATION

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

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.

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.

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 heat-
- Never run a machine inside a closed area.

SAFETY RULES

- 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.

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

ACAUTION: 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.

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

- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

ACAUTION: 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.

AWARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	1.25 GALLONS
AND TYPE:	REGULAR
OILTYPE	SAE 30 (ABOVE 32°F)
(API-SF/SG/SH):	SAE 5W-30
OII OARAGIENA	(below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
VALVE	INTAKE: .003"005"
CLEARANCE:	EXHAUST:.005"007"
GROUND SPEED	FORWARD:
(MPH):	1 ST 1.1
ł	2 ND 1.4
	3 RD 2.2
	4 TH 3.4
	5 TH 4.3
ļ	6 TH 5.5
TIDE DOCOCUE	REVERSE: 1.7
TIRE PRESSURE	REAR: 12 PSI
CHARGING	3 AMPS BATTERY
SYSTEM:	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 Craftsman 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 Sears 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".

MAINTENANCE AGREEMENT

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

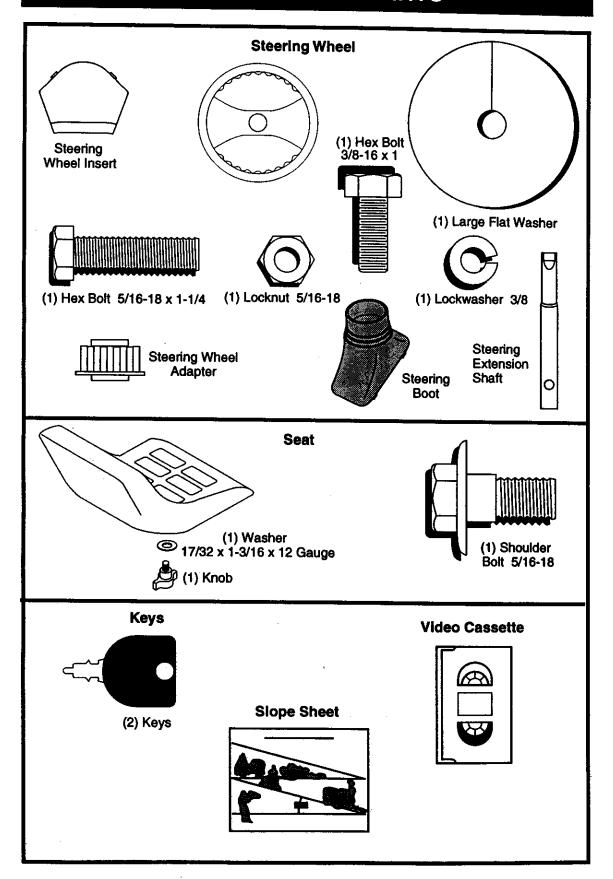
CUSTOMER RESPONSIBILITIES

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

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

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears 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) Pliers
- (2) 1/2" wrench
- (1) Utility knife
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE REMOVING TRACTOR FROM SKID

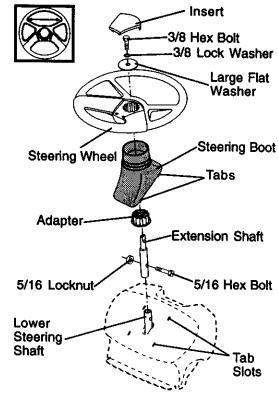
ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

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

INSTALL STEERING WHEEL

- Position front wheels of the tractor so they are pointing straight forward.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft extension.

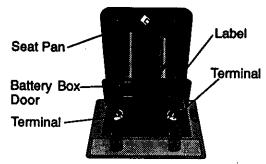


- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

HOW TO SET UP YOUR TRACTOR CHECK BATTERY

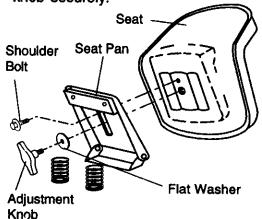
- Lift seat pan to raised postion and open battery box door.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTE-NANCE section of this manual for charging structions.)



INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan and assemble shoulder bolt. Tighten shoulder bolt securely.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.



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

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

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

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

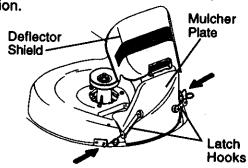
AWARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place gear shift lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.
- Start the engine. After engine has started, move throttle control to idle position.
- Depress clutch/brake pedal into full "BRAKE" position and hold. Move gearshift lever to 1st gear.
- Slowly release clutch/brake pedal and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.
- Turn ignition key to "OFF" position.
 Continue with the instructions that follow.

INSTALL MULCHER PLATE (If previously removed)

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

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



TO CONVERT TO BAGGING OR DISCHARGING

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

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

CHECK TIRE PRESSURE

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

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

CHECK DECK LEVELNESS

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

CHECK FOR PROPER POSITION OF ALL BELTS

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

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

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

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRAATTENTION 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











SLOW

ENGINE ON



ENGINE OFF OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED



REVERSE









NEUTRAL

HIGH

LOW

PARKING BRAKE





ATTACHMENT CLUTCH DISENGAGED







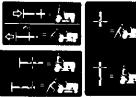




SLOPE HAZARDS







FREE WHEEL (Automatic Models only)

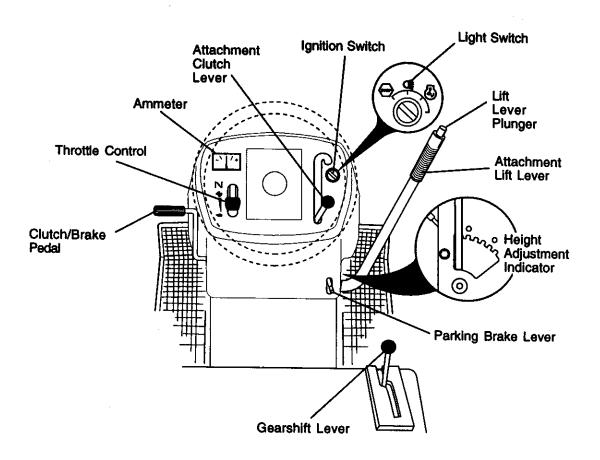


DANGER, KEEP HANDS AND FEET AWAY

KNOW YOUR TRACTOR

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

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



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

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

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

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

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

GEARSHIFT LEVER - Selects the speed and direction of tractor.

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

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

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



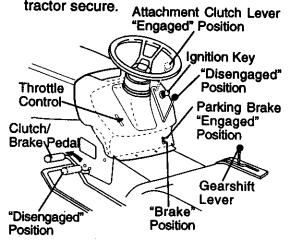
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

 Depress clutch/brake pedal into full "BRAKE" position and hold.

 Place parking brake lever in "EN-GAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold



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.

A 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.

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

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

TO ADJUST MOWER CUTTING HEIGHT

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

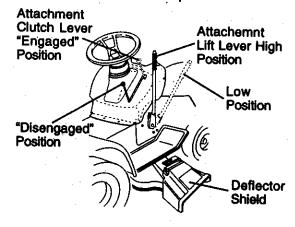
12 mowed.

- 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.

- · Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.
- A CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the deflector shield in place.



TO OPERATE ON HILLS

A 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.

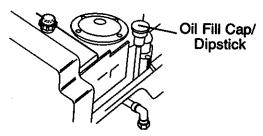
NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

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.
- Check engine oil with tractor on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the 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.

A 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,

ACAUTION: 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.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- Move throttle control to choke position.
 NOTE: Before starting, read the warm and cold starting procedures below:

Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, 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)

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

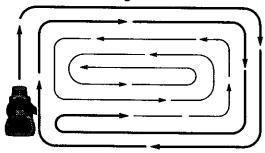
COLD WEATHER STARTING (50° F and below)

- When engine starts, 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

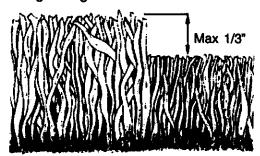
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to 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.



MULCHING MOWING TIPS

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean after each use.

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



MAINTENANCE

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- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more aften when operating in dirty or dusty conditions.3 If equipped with oil filter, change oil every 50 hours.
- 4 Replace blades more often when mowing in sandy soil,

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free batte
- 7 Tighten front aide pivot bolt to 35 ft.-lbs. maximum. Do not overtighten.

GENERAL RECOMMENDATIONS

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

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

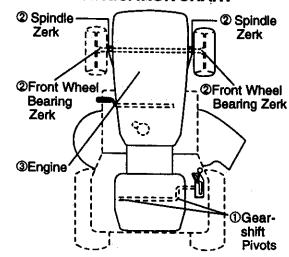
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

BEFORE EACH USE

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

LUBRICATION CHART



SAE 30 or 10w30 MOTOR OIL @GENERAL PURPOSE GREASE **3REFER TO Maintenance "ENGINE" SECTION** IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

- · The engine should not start unless the clutch/brake pedal is fully depressed and attachement clutch control is in the disengaged position.
- · When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- · When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- · The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

For best results mower blades must be kept sharp. Replace bent or damaged blades.

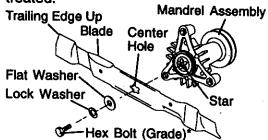
BLADE REMOVAL

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

IMPORTANT: To ensure proper assembly, center hole in blade must align with star on mandrel assembly.

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

IMPORTANT: Blade bolt is Grade 8 heat treated.



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

TO SHARPEN BLADE

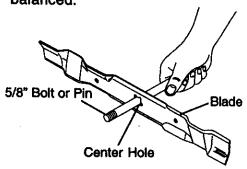
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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.

- · Open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "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.

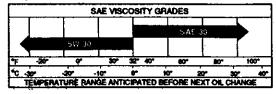
TRANSAXLE COOLING

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.

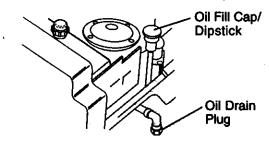
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill.
 For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Be sure dipstick cap is tightened securely for accurate reading. Keep oil at "FULL" line on dipstick.



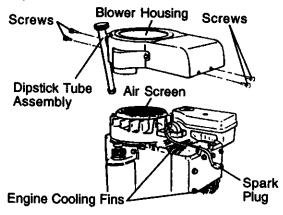
CLEAN AIR SCREEN

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.

- Remove screws from blower housing and lift housing and dipstick tube assembly off engine.
- Cover oil fill opening to prevent entry of dirt.
- Use compressed air or stiff bristle brush to thoroughly clean engine cooling fins.
- 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.

· Remove knob(s) and cover.

TO SERVICE PRE-CLEANER

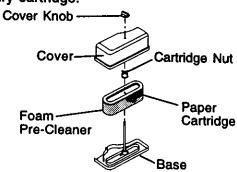
- · Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace precleaner.
- Reinstall pre-cleaner over cartridge.
- Reinstall cover and secure with knob(s).

TO SERVICE CARTRIDGE

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

- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge, nut, precleaner, cover and secure with knob(s).

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



MUFFLER

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

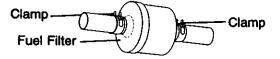
SPARK PLUGS

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.

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



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

ACAUTION: Before performing any service or adjustments:

Depress clutch/brake pedal fully and set parking brake.
Place gearshift lever in neutral (N) position.

Place attachment clutch in "DISENGAGED" position.
Turn ignition key "OFF" and remove key.

Make sure the blades and all moving parts have completely stopped.

Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER

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

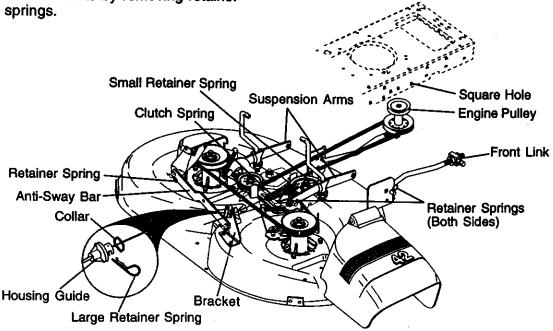
- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- · Remove small retainer spring, and lift clutch spring off pulley bolt.
- · Remove large retainer spring, slide collar off and push housing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

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

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

TO INSTALL MOWER

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



TO LEVEL MOWER HOUSING

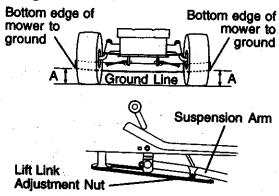
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- · 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.

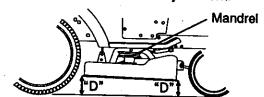


FRONT-TO-BACK ADJUSTMENT IMPORTANT: Deck must be level side-to side. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

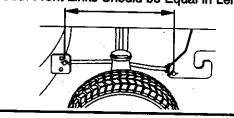
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

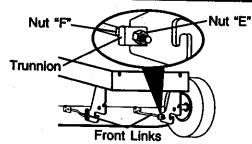
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- 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

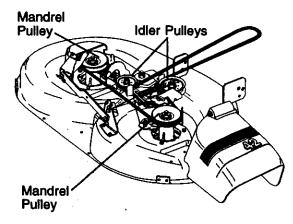
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

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

BELT INSTALLATION -

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



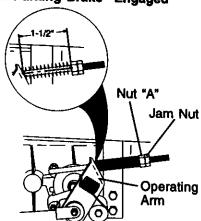
TO ADJUST BRAKE

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.

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

 Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

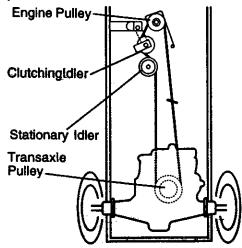
With Parking Brake "Engaged"



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.

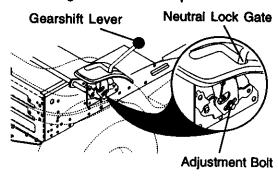
- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor.
 Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from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



TRANSAXLE GEAR SHIFT LEVER NEUTRAL ADJUSTMENT

The transaxle should be in neutral when the gear shift lever is in neutral (N) (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- Make sure transaxle is in neutral (N).
 NOTE: When the tractor rear wheels move freely, the transaxle is in neutral.
- Loosen adjustment bolt in front of the right rear wheel.
- Position the gear shift lever in the neutral (N) position.
- Tighten adjustment bolt securely.
 NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.



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

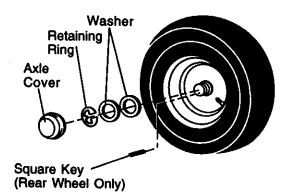
The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest authorized service center/department.

TO REMOVE WHEEL FOR REPAIRS

- · Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
- · Repair tire and reassemble.
- On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.

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

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



TO START ENGINE WITH A WEAK BATTERY

ACAUTION: 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).

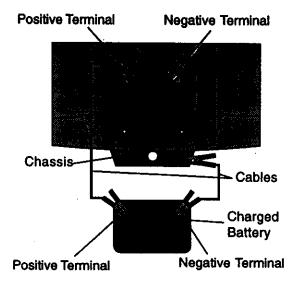
If "jumper cables" are used for emergency starting, follow this procedure: IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

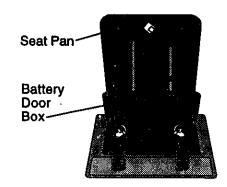


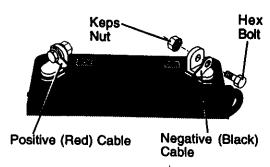
REPLACING BATTERY

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

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

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





TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

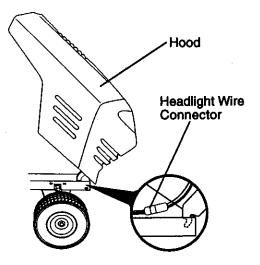
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY

- Raise hood.
- · Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.



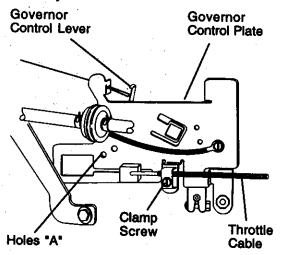
ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

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



TO ADJUST CARBURETOR

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

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

IMPORTANT: Damage to the needle valve and the seat in carburetor may result if screw is turned in too tight.

PRELIMINARY SETTING

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

FINAL SETTING

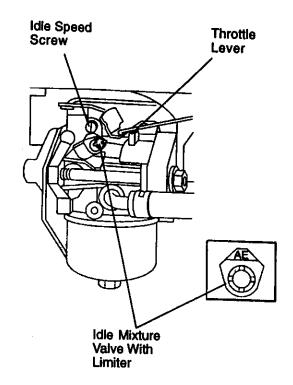
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- Move throttle control lever to slow position. With finger, rotate and hold . throttle lever against idle speed screw. Turn idle speed screw to attain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

ACCELERATION TEST

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture valve out (counter-clockwise) 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, which has proper equipment to make any necessary adjustments.



STORAGE

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

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

TRACTOR

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

 Clean entire tractor (See "CLEANING" in the Maintenance section of this

manual).

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

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the 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 filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels 9called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

· Use fresh fuel next season.

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

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

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

OTHER

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

IMPORTANT: Never cover tractor while engine and exhaust areas are still warm.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/ department.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.

TROUBLESHOOTING CHART

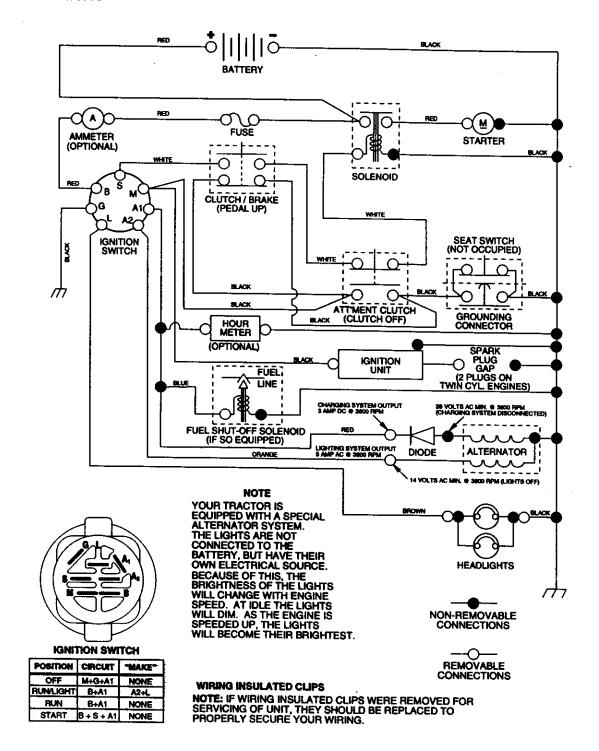
PROBLEM	CAUSE	CORRECTION
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carbure tor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). Faulty operator-sefety.	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/department.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	COPPECTION			
		CORRECTION			
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. 			
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mondrel. 			
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck 			
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s). Check/replace light switch. Check wiring and connections. Replace fuse. 			
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator. 			
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.			

TRACTOR--MODEL NUMBER 917.270653

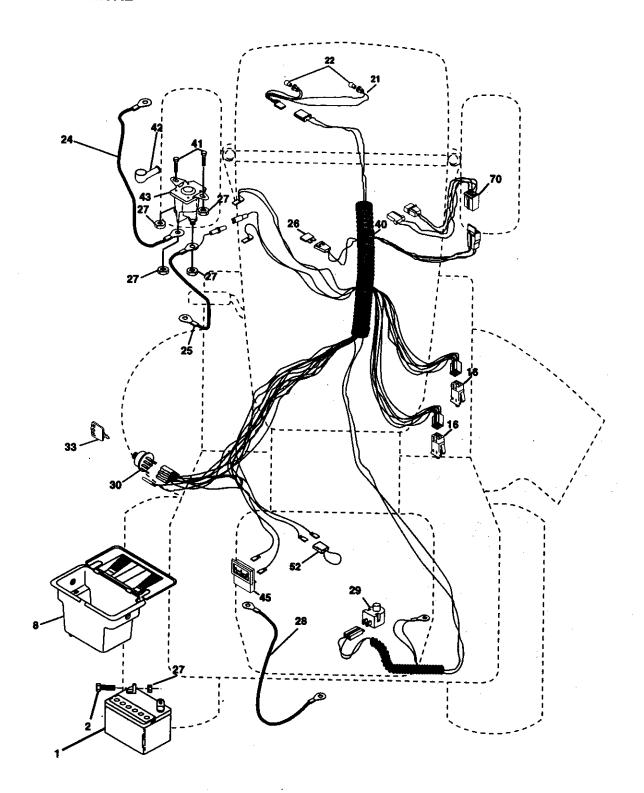
SCHEMATIC



REPAIR PARTS

TRACTOR---MODEL NUMBER 917.270653

ELECTRICAL



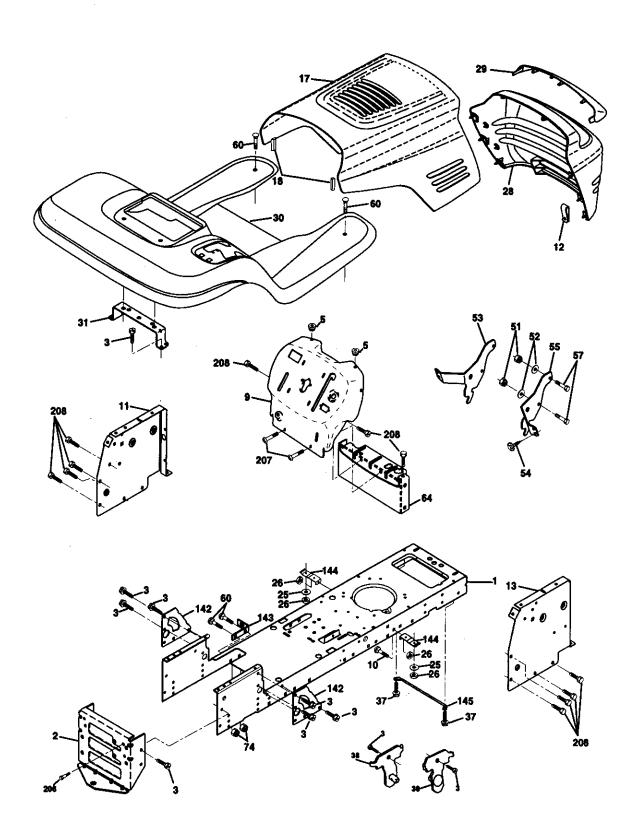
TRACTOR---MODEL NUMBER 917.270653

ELECTRICAL

PART	
NO.	DESCRIPTION
44925	Battery 12 VOLT 25 AMP
	Bolt Hex Hd 1/4-20unc x 3/4
	Case Battery
	Switch, Interlock Push-In
	Harness Asm Light W/4152i
	Bulb Light #1156
799J	Cable Battery 6 Ga 11* red
	Cable Battery 6 Ga w/16 wire red
	Fuse 15 AMP
	Nut, Keps Hex 1/4-20 UNC
	Cable Ground 6 Ga 12" black
	Switch Plunger Nc Gray
	Switch Ign
	Key Ign
	Harness Ign
	Bolt Blk. Fin Hex 1/4-20 Unc x 1/2
	Cover Terminal Red
	Solenoid
	Ammeter Rectangular 6 Amp
	Protection Wire Loop
70243	Engine Harness
	NO.

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

TRACTOR--MODEL NUMBER 917.270653 CHASSIS AND ENCLOSURES



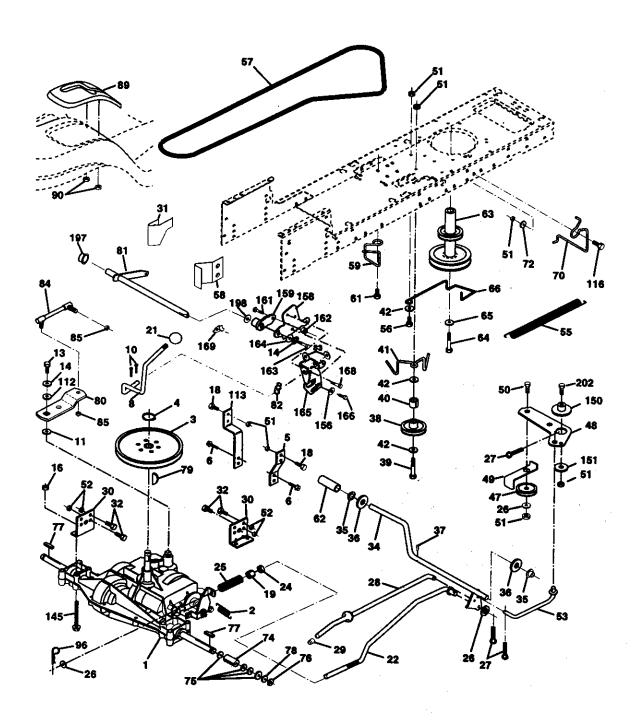
TRACTOR--MODEL NUMBER 917.270653 CHASSIS AND ENCLOSURES

KEY PART	
NO. NO.	DESCRIPTION
1 169830	Chassis
2 169061	Drawbar
3 17060612	Screw, Roll. 3/8-16 x 3/4
5 155272	BumperHood/Dash
9 168337X013	Dash.
10 STD533710	Bolt, Carriage 3/8-16 x 3/4
11 155927	Panel, Dash, L.H.
12 145660	Clip Tinnerman Grille P/L
13 172107X010	Panel, Asm. SLKSCR Dash R.H.
17 144983X558	Hood Assembly
18 126938X	Bumper Hood
25 19131312	Washer 13/32 x 13/16 x 12 Gauge
26 STD541437	Nut, Lock Hex W/Ins. 3/8-16 UNC
28 166271X558	Grille w/Clips MS-558
29 155217X599	Lens, Grille
30 164918X558	Fender
31 139976	Bracket, Fender Support
37 17490508 38 169834	Screw Thdrol 5/16-18 x 1/2 TYT
	Bracket asm Pivot Mower Rear
51 73800400 52 19091416	Nut Lock w/Insert 1/4-20 UNC
53 145201	Washer 9/32 x 7/8 x 16 Ga.
54 161464	Bracket Grille Pickoff LH
55 145202	Screw Hex WSHD 8-18 x 7/8
57 STD522507	Bracket Grille Pickoff RH
60 STD533707	Bolt, Fin Hex 1/4-20 UNC x .75
64 154798	Bolt Rdhd Sqnk 3/8-16 UNC Dash Lower STLT
74 STD541437	Nut, Crownlock 3/8-16 UNC
142 165867	Plate Reinforcement STLT
143 154966	Bracket Swaybar Chassis
144 154207	Bracket Pnt Footrest STLT
145 156524	Rod Pivot Chassis/Hood
206 170165	Bolt Shoulder 5/16-18
207 17670508	Screw Thdrol 5/16-18 x 1/2
208 17670608	Screw Thdrol 3/8-16 x 1/2
5479J	Plug, Button

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

TRACTOR---MODEL NUMBER 917.270653

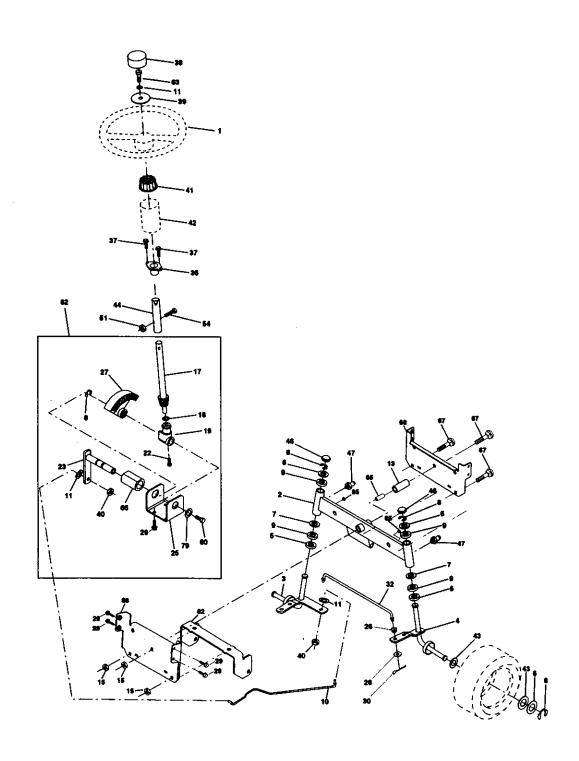
GROUND DRIVE



GROUND DRIVE

	EY PART O. NO.	DESCRIPTION	KEY PART	
1	J. 110.		NO. NO.	DESCRIPTION
'		Transaxie (See Breakdown)	61 17060612	Screw 3/8-16 x 3/4
2	146682	Peerless Model 206-545C	62 8883R	Cover Pedal Blk Round
3	123666X	Spring Return Brake T/a Zinc	63 140186	Pulley Eng Cl Mech 38deg LT/YT
4		Pulley Transaxle 18/20" tires	64 71170764	Bolt Hex 7/16-20 x 4 Gr 5
5	121520X	Ring Retainer #5100-62	65 STD551143	Washer Lock Hvy Hlcl Spr 7/16
6	17060512	Strap Torque 30 Degrees	66 154778	Keeper Belt Engine
ě	165866	Screw 5/16-18 x 3/4	70 134683	Guide Belt Mower Drive RH
10		Rod Shifter Fender STLT	72 19132012	Washer 13/32 x 1-1/4 x 12 Ga
11		Pin Cotter 1/8 x 1 Cad	74 137057	Spacer Axle
13		Washer Plate Shf 388 Sq Hole	75 121749X	Washer 25/32 x 1 1/4 x 16 Ga
14		Bolt 1/4-28unf Gr8 W/Patch	76 STD581075	E-ring #5133-75
16		Washer Lock Hvy Helical 1/4 Nut Lock Hx w/ins 5/16-18 UNC	77 123583X	Key Square
18	T. DU 1 1 10 1	Bolt Fin Hex 3/8-16unc x 1 Gr.5	78 121748X	Washer 25/32 x 1-5/8 x 16ga
19		Nut Lock Hex W/Ins. 3/8-16 Unc	80 131486	Arm, Shift
21	106933X	Knob Rd 1/2-13 Pisto Thds Bik	81 165594	Shaft Assembly
22	130804	Rod Brake Blk Zinc 26 840	82 165711	Spring, Torsion
24	STD541237	Nut Hex Jam 3/8-16 Unc	83 19171216	Washer 17/32 x 3/4 x 16 Gauge
25	106888X	Spring Rod Brake 2 00 Zinc	84 166228	Link Transaxie
26		Washer 13/32 x 13/16 x 16 Ga	85 150360	Nut, Nylock
27		Pin Cotter 1/8 x 3/4 Cad	89 158391X428 90 124346X	Console, Shift, STLT
28	145204	Rod Brake Parking Lt/Yt		Nut, Self-Threading, Washer Hd 1/4
29	71673	Cap Brake Parking		Retainer Spring 1»
30	130807	Bracket Mtg Transaxle	112 19091210 113 127285X	Washer 9/32 x 3/4 x 10 Ga
31	127275X	Keeper Belt LH LT 14 Ga	116 72110610	Strap Torque
32	STD523107	Bolt Hex Hd 5/16-18unc x 3/4	145 74490540	Bolt Rdhd Sq Neck 3/8-16 x 1.25
34	155071	Shaft Asm Pedal Foot	150 165850	Bolt Hex FLGHD 5/16-18Gr.5
	120183X	Bearing Nylon Blk 629 ld	151 19133210	Bushing Market 19/00
	STD551062	Washer 21/32 x 1 x 16 Ga	156 166002	Washer 13/32 x 2 x 10 Ga.
37	STD571810	Pin Roll 3/16 x 1"	158 165589	Washer Smed 5/16ID x 1 .125
38	131494	Pulley Idler Flat	159 165494	Bracket Shift Mount
39	STD533727	Bolt Rdhd 3/8-16unc x 2-3/4 Gr. 5	161 72140406	Hub Tapered Flange Shift Lt
40	4470J	Spacer Split 395 x 59 Bzb	.01 /2 110700	Bolt Right Sqnk 1/4-20 x 3/4 Gr. 5
41	165838	Keeper Belt Idler	162 73680400	Nut Crownlock 1/4-20 UNC
42	19131312	Washer 13/32 x 13/16 x 12 Ga	163 74780416	Bolt Hex Fin 1/4-20 UNC x 1
47	127783	Pulley Idler		Gr. 5
48	154407	Bellcrank Clutch Grnd Drv STL	164 19091010	Washer 5/8 x .281 x 10 Ga.
49	123205X	Retainer Belt Style Spring	165 165623	Bracket Pivot Lever
50	STD523715	Bolt Hex Hd 3/8-16unc x 1-1/2	166 166880	Screw 5/16-18 x 5/8
51 52	STD541437	Nut Crownlock 3/8-16 UNC	168 165492	Bolt shoulder 5/16-18 x .561
52 53	STD541431	Nut Crown Lock 5/16-18	169 165580	Plate Fastening Lt
55 55	105710X	Link Clutch 7 66	197 169613	Nyliner Snap-In 5/8" ID
= = =	105709X STD522712	Spring Return Clutch 6 75	198 169593	Washer Nyl 7/8 ID x .105"
57	STD523712 130801	Bolt Fin Hex 3/8-16 unc x 1-1/4	202 72110612	Bolt Carr. Sh 3/8-16 x 1-1/2 Gr. 5
57 58	127274X	V-Belt Gd Drive		2 3.2 10 X 1 1/2 CI. 0
59	169691	Keeper Belt RH LT Pnt/zinc 16g	NOTE: Ali compone	nt dimensions give In U.S. inches
•••	103031	Keeper Belt Centerspan	1 inch = 25.4	l mm
			. 1101 - 20.4	******

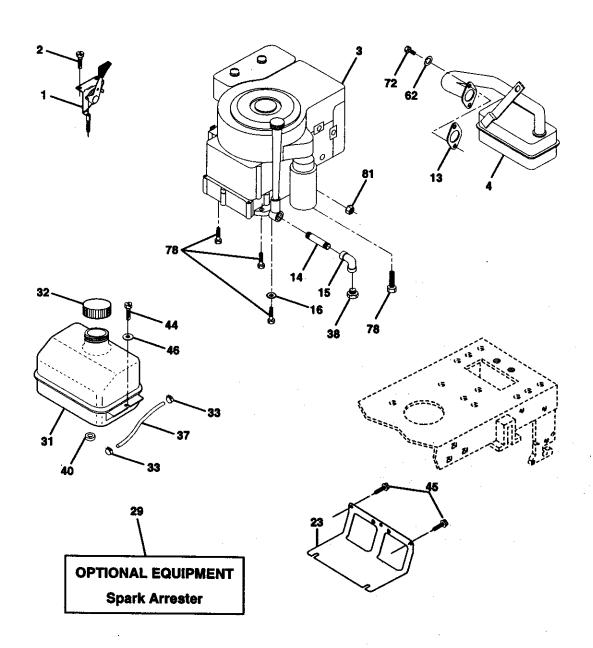
TRACTOR--MODEL NUMBER 917.270653 STEERING ASSEMBLY



TRACTOR--MODEL NUMBER 917.270653 STEERING ASSEMBLY

KEY PART NO. NO.	DESCRIPTION
1 139768	Steering Wheel
2 154427	Front Axle Assembly
3 156483	Spindle Assembly, L.H.
4 157473	Spindle Assembly, R.H.
5 6266H	Bearing, Race, Thrust, Hardened
6 121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7 19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8 12000029	Ring, Klip
9 3366R	Bearing, Steering Column
10 169832 11 STD551137	Link, Drag
12 126510	Washer, Lock
13 136518 15 145212	Spacer, Bearing, Front Axle
17 156546	Nut, Hex Flange Lock
18 57079	Shaft Assembly, Steering
19 160395	Washer, Thrust .515 x .750 x .033
22 165857	Support, Shaft
23 165851	Screw Hex WSH HDTorx
25 154406	Pittman Shaft Assembly
26 126847X	Bracket, Steering
27 136874	Bushing, Link, Drag Gear, Sector
28 19131416	Washer 13/93 x 7/9 x 40 0
29 17060612	Washer 13/32 x 7/8 x 16 Gauge Screw 3/8-16 x 3/4
30 STD561210	Pin
32 130465	Rod, Tie
36 155099	Bushing, Steering
37 152927	Screw TT #10-32 x 5 x 3/8 Flange
38 139769	Cap Wheel Steer OPP Blk
39 19133812	Washer 13/32 x 2-3/8 x 12 Gauge
40 STD541537	Gripco Nut
41 100711L	Adaptor, Steering Wheel
42 145054X428	Boot, Steering Dash P/L Mtl Blk
43 121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44 153720	Extension Steering Non-Adjust
46 121232X	Cap, Spindle
47 6855M	Fitting, Grease
51 STD541431	Nut Lock Hx W/ins 5/16-18 UNC
54 74780520	Bolt Fin Hex 5/16-18 UNC x 1-1/4
62 167902	Kit, Steering Assembly, Service
63 STD523710	Bolt Fin Hex 3/8-16 unc. x 1 Gr. 5
65 160367	Spacer Axle Brace
66 154404	Bearing Arm Pittman
67 72140618	Bolt Rdhd Sq 3/8-16 UNC 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 Chassis Front
85 133835	Fastener Christmas Tree

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

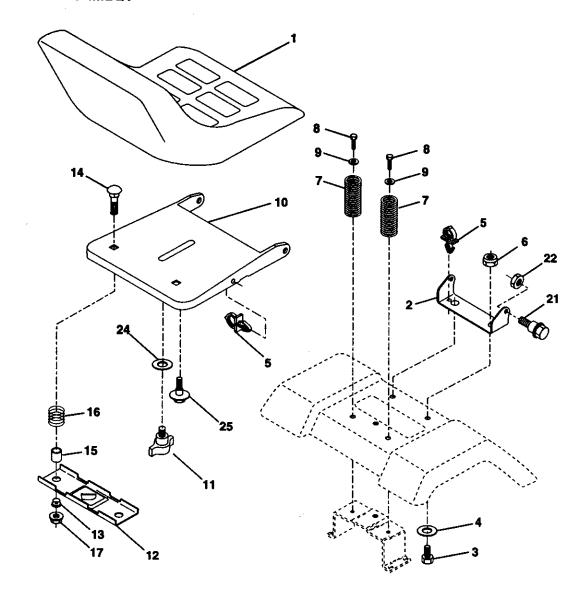


ENGINE

KEY PART	
NO. NO.	DESCRIPTION
1 162157	Control Throttle/Choke
2 17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	Engine (See Breakdown)
	Briggs Model 28U707-1174-E3
4 137352	Muffler Exhaust B&S Lt
13 165291	Gasket 1 313 ld Tin Plated
14 13280324	Nipple Pipe 3/8 Not X 3"
15 13200300	Elbow Std 90 Degree 3/8-18 Not
16 STD551237	Washer Lock Ext Tooth 3/8
23 169837	Shield BRN/DBR Guard
29 137180	Arrestor Spark
31 109202X	Tank Fuel 1 25 Fr
32 158990	Cap Asm Fuel W/sym Vented
33 123487X	Clamp Hose Bik
37 137040	Line Fuel 20"
38	Plug Oil Drain (See Engine Breakdown)
40 124028X	Bushing Shap Nyi Bik Fuel Line
44 17490412	Screw Hexwsh Thdrol 1/4-20x3/4
45 17000612	Screw Hexwsh Thdrol 3/8-16 x 3/4
46 19091416	Washer 9/32 X 7/8 X 16ga
62 STD551131	Washer Lock Hvv High Spr 5/16
72 71070512	Screw Hexhd Cap 5/16-18x3/4
78 17060620	Screw 3/8-16x1-1/4
81 73510400	Nut Keps Hex 1/4-20 UNC

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

SEAT ASSEMBLY



KEY	PART
NO.	NO.

- 140122 140551
- 3 71110616
- 4 19131610 5
- 145006 STD541437
- 124181X
- 17000616
- 19131614
- 155925 10
- 166369 11

12 121246X

DESCRIPTION

Seat 3350 Blk/blk Craftsman Bracket Pnt Pivot Seat (blk) Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 3/4 X 10 Ga Clip Push in Hinged Nut Hex Lock w/lns 3/8-16 Unc Spring Seat Cprsn 2 250 Blk Zi Screw 3/8-16 X 1-1/2 Washer 13/32 X 1 X 14 Ga Pan Pnt Seat (blk) **Knob Seat**

Bracket Pnt Mounting Switch

KEY PART NO. NO. 121248X

72050412 14 15 134300 16 121250X

17 123976X 171852 21

22 STD541431 24 19171912

127018X

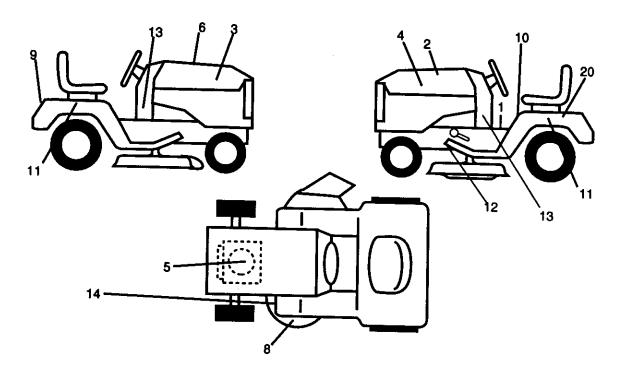
13

DESCRIPTION

Bushing Snap Blk Nyl 50 ld Bolt Rdhd Sht Nk 1/4-20x1-1/2 Spacer Split 28 X 96 Zinc Spring Cprsn 1 27 Blk Pnt Nut Lock 1/4 Lge Flg Gr 5 Zinc Bolt Shoulder 5/16-18 Unc-2A Nut Hex Lock w/lns 5/16-18 Washer 17/32 X 1-3/16 X 12 Ga Bolt Shoulder 5/16-18 X 62

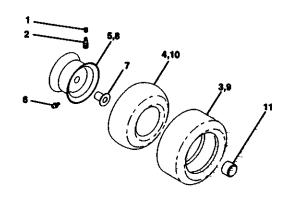
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

DECALS



KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 156368 2 167178 3 163200 4 163202 5 165388 6 133644 8 166887 9 163204 10 156439	Decal, Oper. Instr. Decal, Replcmnt Decal, Hood Rh Decal, Hood Lh Decal, Hp Engine Decal, Maint Customer Sears Dom Decal, Deck Mower EZ3 Decal, Fender Craftsman Decal, Fender Danger	11 163207 12 146046 13 163250 14 160396 20 149516 138311 165800X428 173027 173028	Decal, Fender Decal, V-belt Dr Sch Decal, Dash Decal, Dash Decal, V-belt Schematic Decal, Battery Dngr/Psn Eng Decal, Lift Handle Pad, Footrest LH STLT Pad, Footrest RH STLT Manual, Owner's (English) Manual, Owner's (Spanish)

WHEELS & TIRES

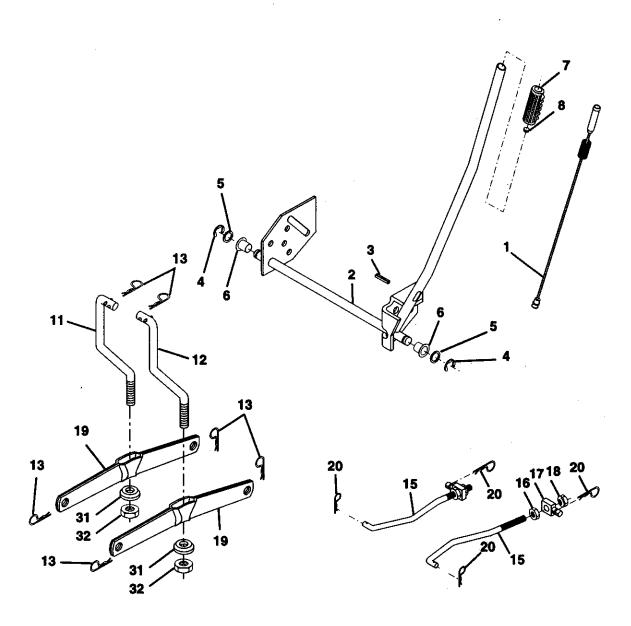


KEY PART NO. NO. DESCRIPTION

Cap Value Tire Stem Value Tire F Ts 15 X 6 0 - 6 Service Tube Inner Front #35060 59192 65139 106222X 59904 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
Tube Rear 9 5 X 8 Service
Cap Axle Blk 1 50 X 1 00
Sealant Tire (10 or tube) 106732X427 278H 9040H 106108X427 106268X 9 10 7152J 11 104757X 144334 Sealant, Tire (10 oz. tube)

NOTE: All component dimensions given in U.S. inches 1 inch = 25,4 mm

LIFT ASSEMBLY

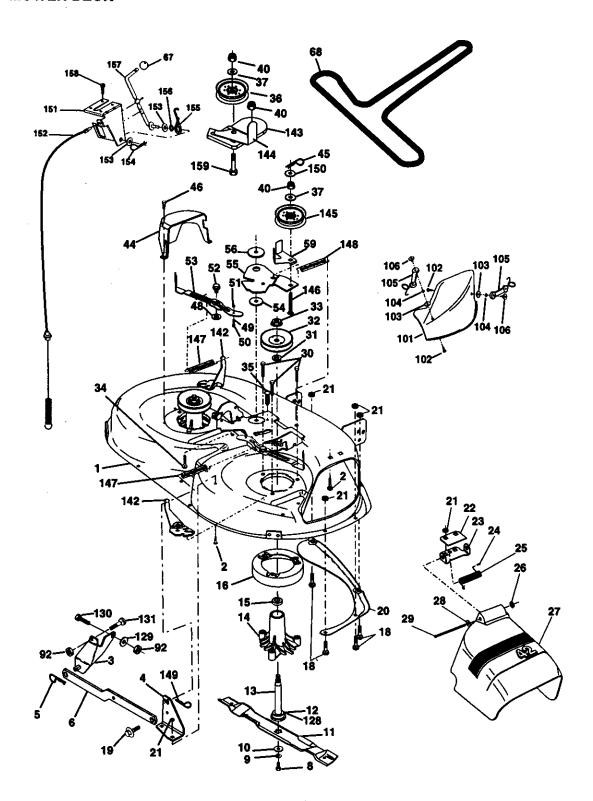


LIFT ASSEMBLY

KEY PART	
NO. NO.	DESCRIPTION
1 159460	Washer Asm Inner Spring W/Plunger
2 159471	Shaft Asm. Lift RH
3 105767X	Pin Groove
4 12000002	E Ring #5133-62
5 19211621	Washer 21/32 x 1 x 21 Ga.
6 120183X	Bearing Nylong
7 125631X	Grip Handle Fluted
8 122365X	Button Plunger Read
11 139865	Link Asm Lift L.H.
12 139866	Link Asm Lift R.H.
13 STD624008	Retainer Spring
15 167253	Link Front
16 73350800	Nut Jam Hex 1/2-13 Unc
17 130171	Trunnion Blk Zinc
18 73800800	Nut Lock w/Wsh 1/2-13 Unc
19 139868	Arm Suspension Mower
20 163552	Retainer Spring
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

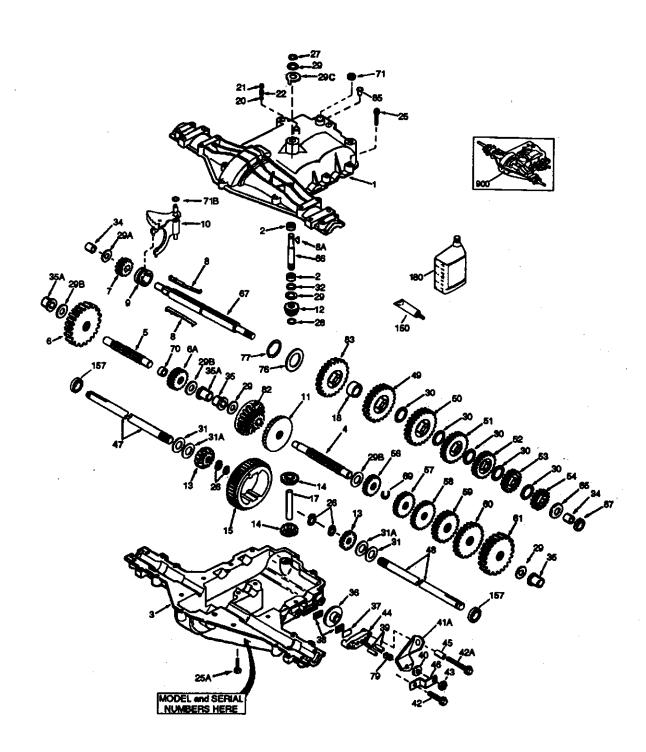
MOWER DECK



MOWER DECK

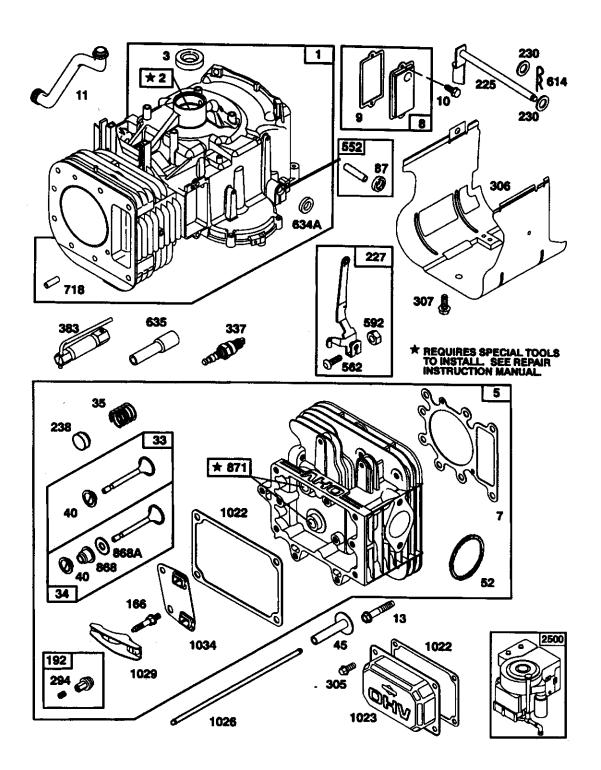
KE			KEY PART	
NO	. NO.	DESCRIPTION	NO. NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	52 139888	Bolt, Shoulder 5/16-18 UNC
2	STD533107	Bolt	53 131845	Arm Assembly, Pad, Brake
3	138017	Bracket Assembly, Sway Bar,	54 133943	Washer, Hardened
		Front	55 155046	Arm, Idler
4	165460	Bracket Sway Bar 38/42" Deck	56 165723	Spacer, Retainer
5	STD624008	Retainer Spring	59 141043	Guard, TUV idler
6	130832	Arm, Suspension, Rear	67 149846	Knob Custom Oval
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	68 144959	V-Belt
9	STD551137	Washer, Lock	92 STD541437	Nut
10	140296	Washer, Hardened	101 136420	MulcherCover
11	134149	Blade, Mulching	102 71161010	Screw
12	129895	Bearing, Ball	103 19061216	Washer #10
13	137645	Shaft Assembly, Mandrel, Vented	104 STD551110	Washer, Lock
		(Includes Key	105 160793	Latch Assembly, Bagger
	400==4	Number 12)	106 2029J	Nut, Weld
14	128774	Housing, Mandrel, Vented	128 153390	WasherFelt
15	110485X	Bearing, Ball, Mandrel	129 19131312	Washer 13/32 x 13/16 x 12 Ga.
16	140329	Stripper, Vented Mower Deck	130 STD523710	Bolt, Fin Hex 3/8-16 UNC x 1
18	72140505	Bolt, Carriage 5/16-18 x 5/8	404 CTD500740	Gr. 5
19 20	132827	Bolt, Shoulder	131 STD533710	Bolt, Rdhd Sank 3/8-16UNC x 1
21	159770 STD541431	Baffle, Vortex	142 165890	Arm Spring Brake Mower
22	134753	Nut Crownlock 5/16-18 UNC Stiffener Bracket	143 157109 144 158634	Bracket Arm Idler 42"
23	131267	Bracket, Deflector	145 165888	Keeper Belt 42" Clutch Cable
24	105304X	Cap, Sleeve	146 165891	Pulley Idler Flat
25	123713X	Spring, Torsion, Deflector	147 131335	Bolt Carriage Idler Spring Extension
26	110452X	Nut. Push	148 169022	Spring Extension Spring Return Idler
27	130968X428	Shield, Deflector	149 165898	Retainer Spring Yellow Zinc
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	150 19091216	Washer 9/32 x 3/4 x 16 Ga.
29	131491	Rod, Hinge	151 169670	Bracket Clutch
30	157722	Screw Thdrol Washer Head	152 169676	Cable Clutch 42 In
31	129963	Washer, Spacer	153 169674	Washer Flat 3/8" Type B
32	153535	Pulley, Mandrel	154 169675	Spring Retainer
33		Nut, Toplock, Flanged	155 169671	Spring Retention Lever
34		Bolt	156 169672	Spacer
35	133835	Fastner, Christmas Tree	157 169669	Rod Clutch
36	131494	Pulley, Idler, Flat	158 17720410	Screw Hex Thd Cut 1/4-20 x 5/8
37	STD551037	Washer 13/32 x 13/16 x 16	159 72140614	Bolt Rdhd Sqn 3/8-16 UNC x 1-3/4
		Gauge	130794	Mandrel Assembly (Includes Key
40	STD541437	Nut Crownlock 3/8-16 UNC		Numbers 8-10, 12-15, 31 and 32)
44	140088	Guard, Mandrel, L.H.	169583	Mower Deck, Complete (Standard
45	STD624003	Retainer		Deck, Order Separately Mulcher
46	137729	Screw, Thd. Roll 1/4-20 x 5/8		Plate and Gauge Wheel
48	133944	Washer, Hardened		Components, Key Nos. 101-106
49	155066	Roller Assembly, Cam Follower		and 111-121)
50	131340	Bolt, Shoulder #10-24 Grade 5	NOTE: All compo	nent dimensions given in U.S.
51	STD541410	Locknut	inches 1	Inch = 25/4 mm

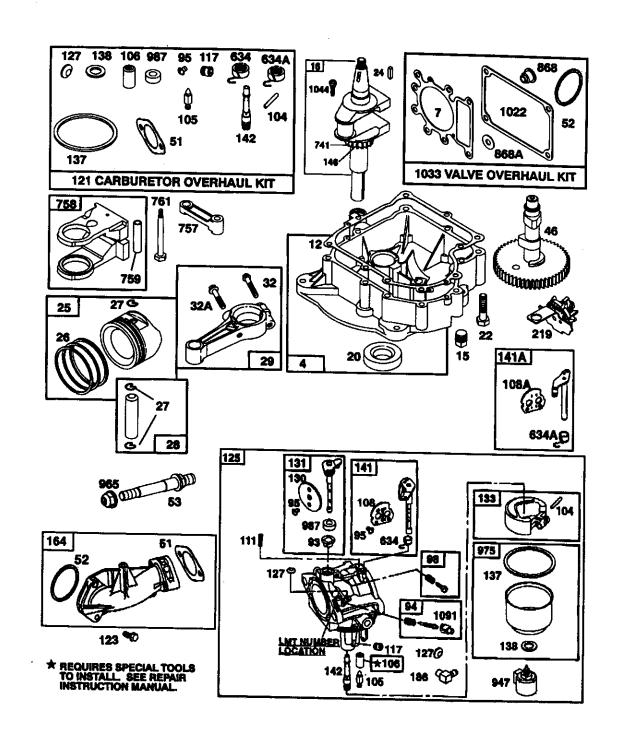
TRACTOR - - MODEL NUMBER 917.270653 PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C

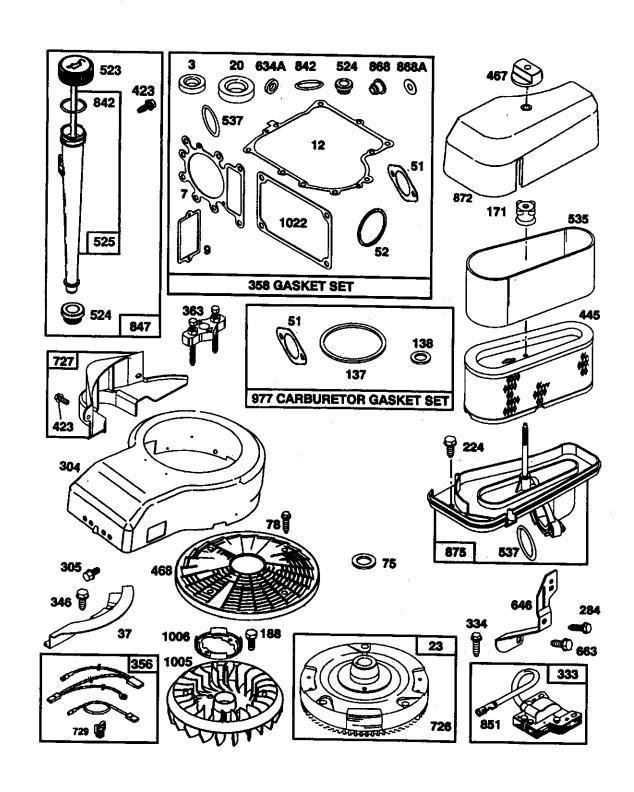


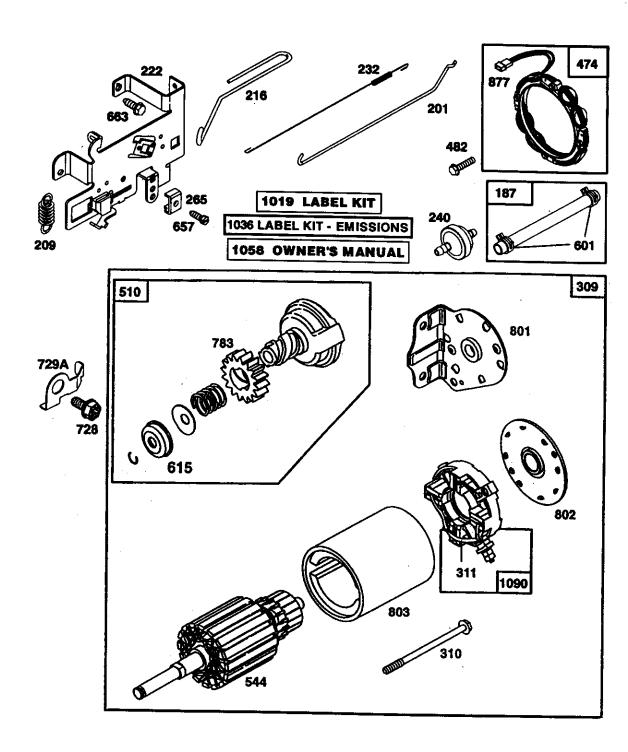
TRACTOR - - MODEL NUMBER 917.270653 PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C

KEY NO.	PART NO.	DESCRIPTION		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		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	78369	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	Axie (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)	54	778346	Spur Gear (15 teeth)
		(Include, 14)	56	778355	Spur Gear (11 teeth)
14	778368	Bevel Pinion (13 teeth)	57	778337	Spur Gear (13 teeth)
4-	770070	(Include, 13)	58	778353	Spur Gear (17 teeth)
15	778370	Ring Gear (43 teeth)	59	778351	Spur Gear (21 teeth)
17	786188	Drive Pin	60	778349	Spur Gear (24 teeth)
18	786102	Spacer 1.130 X .695	61	778345	Spur Gear (25 teeth)
20	792077A	Ball 5/16" dia	65	780189	Flat Washer .563 ID x .062W
21	792078	Set Screw 3/8 - 16 x 3/8"	66 67	776422	Input Shaft
22 25	792079	Spring .310 OD x .625 L	67	776396	Shifter & Brake Shaft
	792073A 792177	Screw 1/4 - 20 x 1-1/4"	69 70	792170	Retaining Ring
25A 26	792125	Screw 1/4-20 x 1-3/8"	70 71	786187 788069	Spacer .890
27	792035	Retaining Ring (pkg of 2) Retaining Ring		788092	Square Cut Ring "O" Ring
28	788040	Retaining Ring	76	780092	Flat Washer 1.128 ID x
29	780072	Thrust Washer .627 ID x	70	70000	.058W
23	700072	.031W	77	788078A	Inverted Retaining Ring
294	780160	Thrust Washer .762 ID x	79	792144	Spring .430 OD x .5000 L
	,00100	.031W	82	778333	Bevel & Spur Gear (30 & 13
29B	780051	Thrust Washer .762 ID x	-		teeth)
		.031W	83	778338	Spur Gear (27 teeth)
29C	780199	Anti-Rotation Washer .632	85	792154	Oil Fill Plug
30	780108	Cup Washer 1.127 ID x	87	788089A	Oil Seal 9 / 16"
		.032W		788093A	Liquid Gasket RTV Silicone
31	780001	Flat Washer .750 ID x .056W	157		Oil Seal 3 /4"
		(Use As Needed)	180	730229A	Gear Oil 80W90
31A	780195	Flat Washer .750 ID x .062W	900	794712	Replacement MST - 206-545
32	788083	Oil Seal 5/8"			Transaxle
34	780194	Bushing .563			
35	780193	Flanged Bushing 5 / 8" ID			ponent dimensions given in
	780197	Flanged Bushing .751	U.S.	. inches 1 in	ch = 25.4 mm
36	790075	Brake Disk_			
37	790007	Brake Pad Plate			
38	799021	Brake Pad (pkg of 2)			
39	786026	Dowel Pin			
40	792076A	Flat Washer .312 ID x .059W			









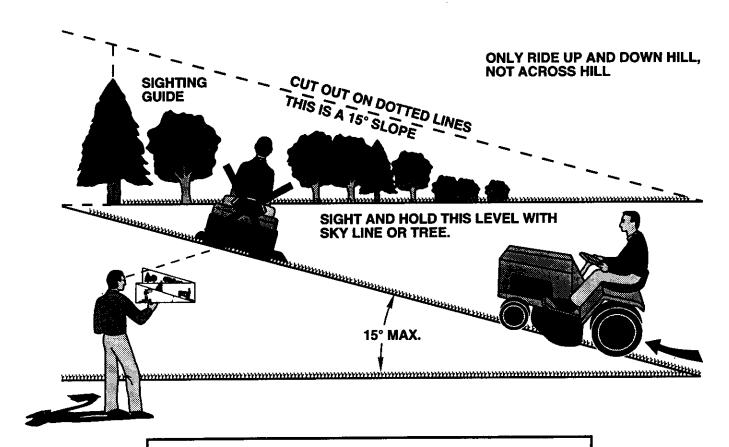
BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E1

	PART		KEY	PART	
	NO.	DESCRIPTION		NO.	DESCRIPTION
1	496412	Cylinder Assembly	78	94832	Screw, Pan Head
2	399265	Bearing, Cylinder	87	491323 *	Seal, Governor Shaft
	391086 * 494238	Seal, Oil	93	281346	Bushing, Throttle Shaft
5	691165	Base, Engine Head, Cylinder	94	498030	Valve, Needle
3 4 5 7	273280 ***	Gasket, Cylinder Head	95	94098 **	
8	495735	Breather Assembly	98 104	495800 231789 **	Screw, Idle Speed
9	27803 *	Gasket, Valve Cover	105	231855 **	
10	94621	Screw, Sems	106	231854 **	Valve Float Seat, Inlet Valve
11	281246	Tube, Breather	108	224558	Valve, Choke (Manual Choke)
12	271916 *	Gasket, Crankcase Cover,	108/	A 224540	Valve, Choke (Choke-A-Matic)
	074007 +	.015"	111	262715	Spring Choke
	271997 *	Gasket, Crankcase Cover,	117	232118 **	Jet, Needle Valve (Std.)
-	271996 *	.005"	464	232119	Jet, Needle Valve (Hi-Alt.)
	271330	Gasket, Crankcase Cover, .009"	121	690791	Carburetor Overhaul Kit
13	94728	Screw, Cylinder Head	123	94913 499153	Screw, Elbow Mounting
15	94239	Plug, Oil Drain	127	455100	Carburetor Assembly
16	498971	Crankshaft	130	224539	Plug, Welch (Sold in Kit Only) Valve, Throttle
	94196	Timing Gear Key	131	494379	Shaft and Lever, Throttle
20	291675 *	Seal, Oil	133	494381	Float, Carburetor
22	94624	Screw, Sems, Base Mounting	137	281165 **	**Gasket, Float Bowl
23	492326	Flywheel and Ring Gear	138	281164 ""	** Washer, Bowl
24	222698	Assembly, Magneto Key, Flywheel	141	495097	Choke, Shaft Kit (Manual
25	495860	Piston Assembly, Standard	1/1/	4495931	Choke)
		Size	1417	1480831	Choke, Shaft Kit (Choke-A- Matic)
	495977	Piston Assembly, .010"	142	232117 **	Nozzle, Carburetor
		Oversize	146	94196	Key, Timing Gear
	495978	Piston Assembly, .020"	164	690193	Manifold, Intake
	405070	Oversize	166	94555	Stud, Rocker Arm
	495979	Piston Assembly, .030"	171	281051	Nut, Air Cleaner Mounting
26	495854	Oversize Ring Set, Piston, Standard	185	493496 298099	Connector, Hose
	100004	Size	188	296099 94627	Line, Fuel (Cut to Suit)
	495852	Ring Set, Piston, .010*	192	492160	Screw, Sems Screw Assembly, Rocker Arm
		Oversize	201	262767	Link, Governor
	495851	Ring Set, Piston, .020"	209	260695	Spring, Governor
	AGEGEE	Oversize	216	262766	Link, Choke
	495855	Ring Set, Piston, .030" Oversize	219	490815	Gear, Governor
27	263129	Lock, Piston Pin	222	495611 94905	Plate, Governor Control
28	498319	Pin Assy., Piston, Standard	225	495157	Screw, Sems, Air Cleaner Crank, Governor
		Size	227	493935	Lever Assembly, Governor
	498320	Pin Assy., Piston, .005"	230		Washer, Governor Crank
••	404504	Oversize		262785	Spring, Governor Link
29	494504	Rod Assembly, Connecting		262836	Cap, Valve
	495490	Rod Assembly, Connecting,		394358	Filter, Fuel (In Fuel Line)
		.020" Undersize Crankpin Bore		221535	Clamp, Casing
32	94695	Screw, Hex Washer Head, 1-	204	94704	Screw, Hex Head
		57/64	*	included in	Gasket Set (691580)
32A	94648	Screw, Hex Washer Head, 1-			Casker Der (091500)
		5/8	**	Included in	Carbureter Kit (690191)
33	495856	Valve, Exhaust			•
34	495857	Valve, Intake	***	included in	both Gasket Set (691580) and
35 37	262811 224502	Spring, Valve Guard, Flywheel		valve Over	haul Kit (691581)
40	224641	Retainer, Valve Spring	****	Included in	Gocket Set (601500)
45	262411	Tappet, Valve Spring		Carburetor	Gasket Set (691580), Kit (690191) and Carburetor
46	496884	Gear, Cam		Gasket Set	(690192)
51	273650 ****	Gasket, Carburetor			,
	000400 ***	(Carburetor to Elbow)	NOT	E: All comp	onent dimensions given in U.S.
52	692138 ***	Gasker, Carbaretor		inches 1	inch = 25.4 mm
53	94637	(Elbow to Cylinder)			
75	225136	Stud, Carburetor Mounting Washer, Spring			
. •	,				

BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
294	810068	Screw, Set	871	262835	Bushing, Guide (Intake &
304 305	496280 94786	Housing, Blower	070		Exhaust)
000	8470U	Screw, Hex, Head, Blower Housing Mounting	872 875	281361 495862	Cover, Air Cleaner
306	225020	Shield, Cylinder	877	393456	Body, Air Cleaner Diode and Connector
307	94930	Screw, Cylinder Shield			Assembly
309	693054 497602	Motor, Starter	947	497672	Solenoid
311	497608	Bolt, Thru Brush Set	965	94010	Nut, Hex
333	495859	Armature, Magneto	975 977	495933 690192 281166 **	Bowl Assembly, Carburetor
334	94731	Screw, Sems, Armature	987	281166 **	Carburetor Gasket Set Seal, Throttle Shaft
227	491055	Modriting			Fan, Flywheel
346	93705	Plug, Spark Screw, Hex Head Wire Assembly	1006	224413	Retainer, Fan
356	497708	Wire Assembly	1019	496758 272475 ***	Label Kit
358	691580	Gasket Set	1023	224552	Gasket, Cover Cover, Rocker Arm
363	19203	Puller, Flywheel	1026	224552 494432	Rod, Push, Intake
423	89838 94903	vvrench, Spark Plug	4000	40E126	Rod, Push, Exhaust
445	493909	Screw, Sems Cartridge, Air Cleaner Knob, Air Cleaner Screen, Flush Rotating Stator, Alternator	1029	224554 691581	Arm, Rocker
467	493903	Knob, Air Cleaner	1034	691581 495248	Valve Overhaul Kit Guide Assembly, Push Rod
468	494439	Screen, Flush Rotating	1036	499364	Label Kit, Emissions
4/4	393474 93621	Stator, Alternator Screw, Sems Drive, Starter	1074	94673	Screw, Hex Head
510	497606	Drive, Starter	4000	272623	Manual, Owner's
523	495230	Cap and Dipstick, Oil Filler	1090	497607	Retainer, Brush
524	281370 *	Seal, Filler Tube	2500	28N707-102	26 Replacement Engine
525 535	496113 272403	Cap and Dipstick, Oil Filler Seal, Filler Tube Tube, Oil Filler Element Filter		496050	Replacement Shortblock
535 537	281106 *	Element, Filter O-Ring, Air Cleaner			
544	497603	Armature, Starter		HPM Setting	s: Low: 1650-1850,
552	491986	Bushing, Governor Crank			High: 3200-3400
562	94907 231978	Bolt, Carriage	•	Included in (Gasket Set (691580)
601	93053	Nut, Hex Clamp, Fuel Pipe			•
614	93306	Pin, Cotter		incidaea in (Carburetor Kit (690191)
615	263080	Retainer	***	Included in t	ooth Gasket Set (691580) and
634 634 A	494453 ** 494455 **	Seal, Spring Assy.		Valve Overha	aul Kit (691581)
635	280872	Seal, Spring Assy. Boot, Spark Plug	****	landural and tax of	Seelest C (See see)
646	224546	Brace, Air Cleaner		Carburetor K	Gasket Set (691580), it (690191) and Carburetor
657	94906	Screw, Sems		Gasket Set	(690192)
663 710	94620 230192	Screw, Self-Tapping			
716 726	399676	Pin, Dowel Gear, Ring	NOTE	: All compor	nent dimensions given in U.S.
		(includes Mounting Hardware)		inches i i	nch = 25.4 mm
	490324	Cover, Starter			
728 729	94951 281390	Screw, Tork®			
729A	225170	Clip, Wire Retainer, Wire			
741	262932	Gear, Timing			
757	213998	Link, Counterweight			
/58 750	399891 298909	Counterweight Assembly		•	
761	94593	Pin, Counterweight Screw, Counterweight			
783	693059	Gear, Starter			
801	394856	Cap, Drive			
802 803	497605 497604	Cap, End Housing, Starter			
842	270920 *	Seal, Oil Filler Cap			
847	496415	Fill Group, Oil			
	224110	Terminal, Ignition Cable			
000 868∆	494435 *** 272610 ***	Seal Assembly, Vaive Gasket, Valve			
		www. Talvo			

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

For in-home major brand repair service: Call 24 hours a day, 7 days a week

1-800-4-MY-HOMESM (1-800-469-4663)

Para pedir servicio de reparación a domicilio
1-800-676-5811

In Canada for all your service and parts needs call Au Canada pour tout le service ou les pièces 1-800-665-4455

For the repair or replacement parts you need:
Call 6 am - 11 pm CST, 7 days a week
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For the location of a Sears Parts and Repair Center in your area:

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