

Owner's Manual

**CRAFTSMAN®**

**14.5 HP**

**ELECTRIC START**

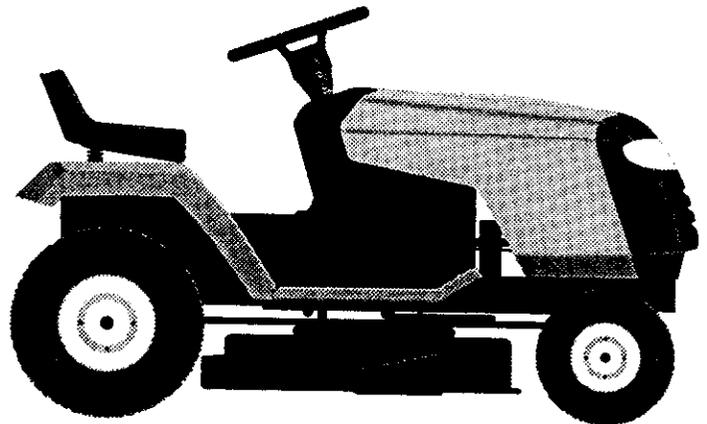
**42" MOWER**

**6 SPEED TRANSAXLE**

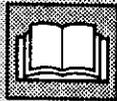
**LAWN TRACTOR**

Model No.

**917.270534**



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts



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

**CAUTION:**

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

For answers to your questions about this product, Call:

**1-800-659-5917**

Sears Craftsman Help Line  
5 am - 5 pm, Mon - Sat

Sears, Roebuck and Co., Hoffman Estates, IL 60179

Visit our Craftsman website: [www.sears.com/craftsman](http://www.sears.com/craftsman)

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## WARRANTY

### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS

For two (2) years from the date of purchase, if this Craftsman Riding Equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

This Warranty does not cover:

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

### LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States.

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

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

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

# SAFETY RULES

**IMPORTANT:** This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

## GENERAL OPERATION

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

## SLOPE OPERATION

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

### DO:

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

### DO NOT:

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

## 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.

# SAFETY RULES

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

## SERVICE

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



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

# SAFETY RULES

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

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

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

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

**⚠ WARNING:** 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 UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 30(ABOVE 32°F) SAE 5W-30 (Below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
VALVE CLEARANCE:	INTAKE: .003"-.005" EXHAUST: .005"-.007"
GROUND SPEED FORWARD: (MPH):	1ST 1.1 2ND 1.4 3RD 2.2 4TH 3.3 5TH 4.4 6TH 4.9 REVERSE: 1.4
TIRE PRESSURE:	FRONT: 14 PSI REAR: 12 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 25 MIN. CCA: 190 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS

**CONGRATULATIONS** on your purchase of a new Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center. We have competent, well-trained technicians and the proper tools to service or repair this tractor. Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

### REPAIR AGREEMENT

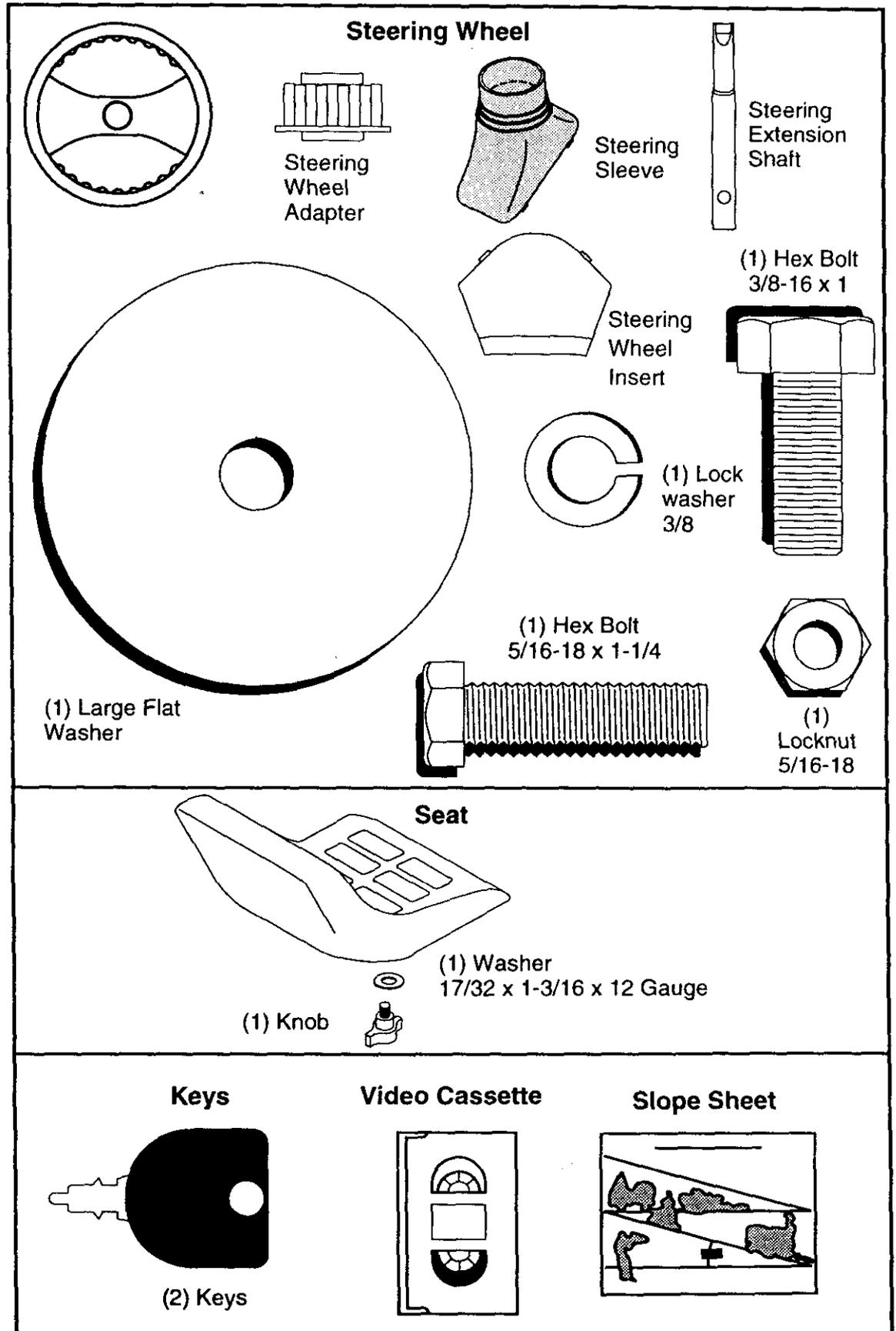
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

### CUSTOMER RESPONSIBILITIES

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

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

# UNASSEMBLED PARTS



# ASSEMBLY

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

## TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench           (1) 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

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

## BEFORE REMOVING TRACTOR FROM SKID

### ATTACH STEERING WHEEL

### ASSEMBLE EXTENSION SHAFT AND BOOT

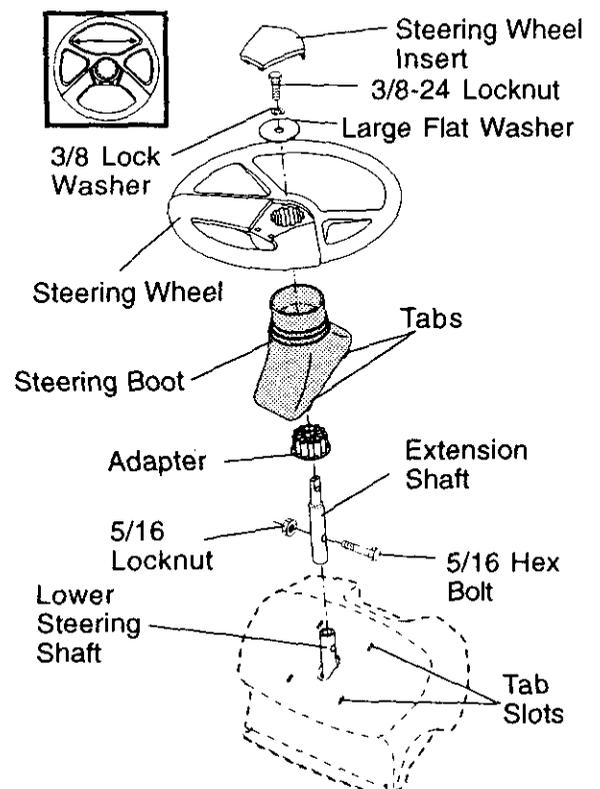
- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.
- Place tabs of steering boot over tab slots in dash and push down to secure.

### 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.

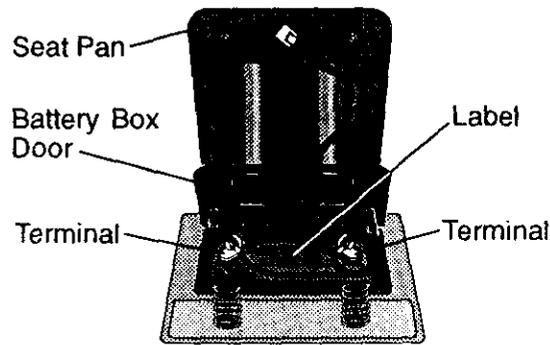
**IMPORTANT:** Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.



## HOW TO SET UP YOUR TRACTOR

### CHECK BATTERY

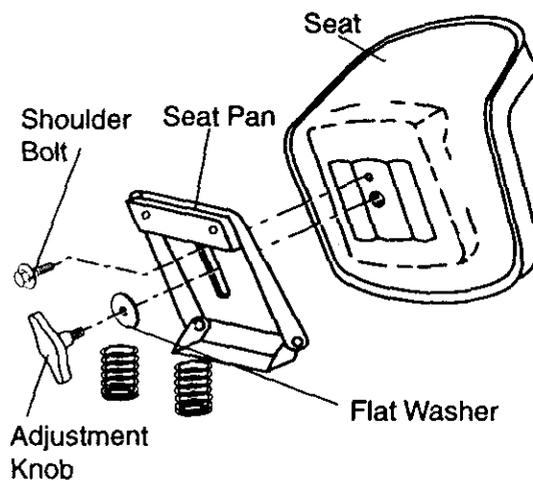
- Lift seat pan to raised position and open battery box door.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



### 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)

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

## **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 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 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 BRAKE SYSTEM**

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

## **✓ CHECKLIST**

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

**PLEASE REVIEW THE FOLLOWING CHECKLIST:**

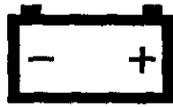
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

**WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:**

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

# OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



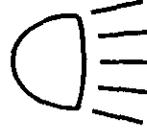
ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



MOWER LIFT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR



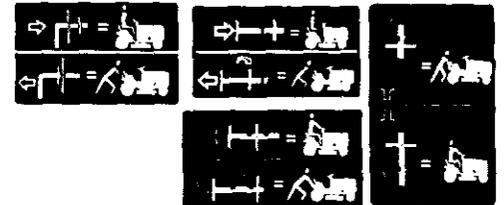
SLOPE HAZARDS



(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY

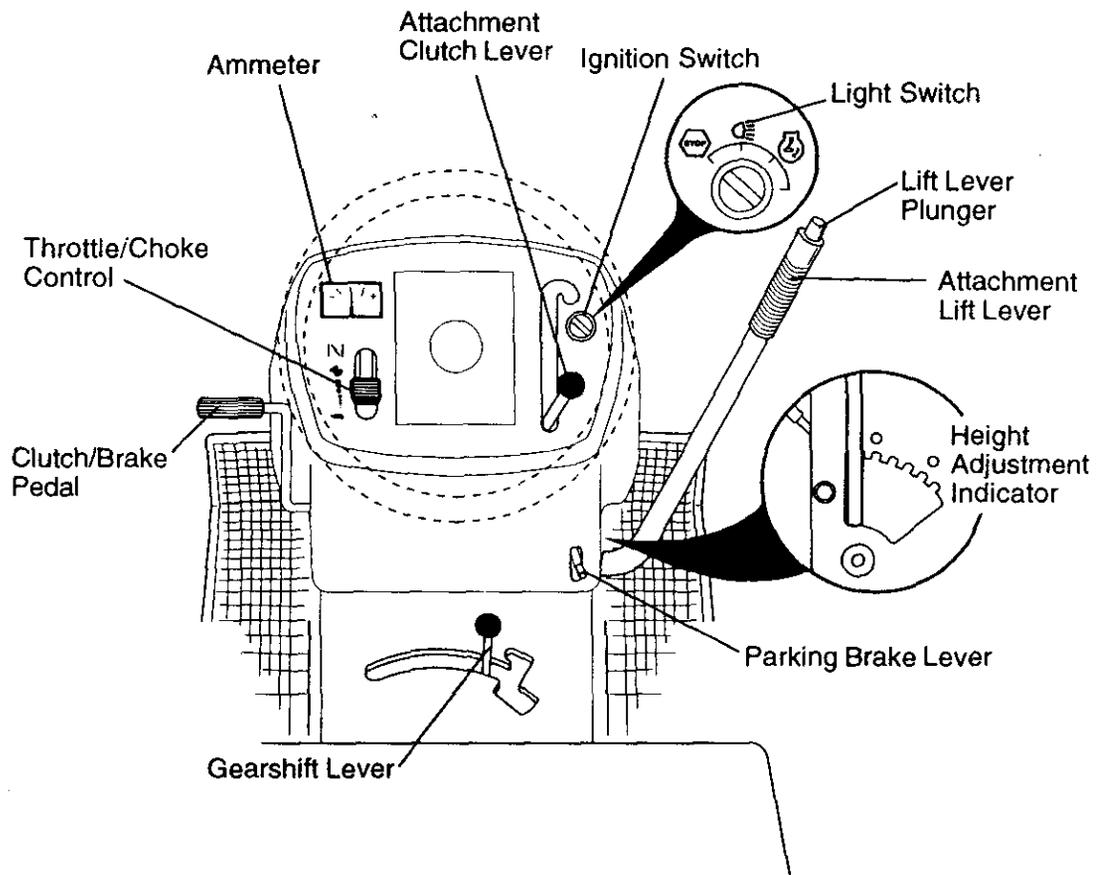


FREE WHEEL  
(Automatic Models only)

## KNOW YOUR TRACTOR

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

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



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

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

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

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

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

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

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

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

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

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

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

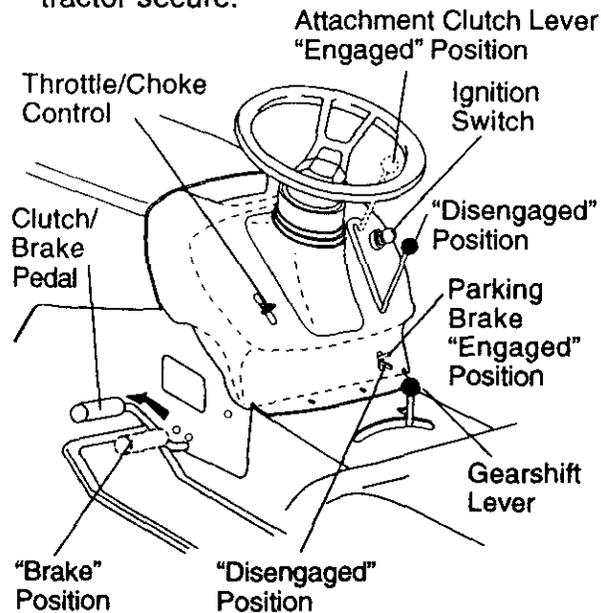


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

## HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

- 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 tractor secure.



## STOPPING

### MOWER BLADES -

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

### GROUND DRIVE -

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

### ENGINE -

- Move throttle control to slow position.

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

- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

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

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

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

## TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

## TO MOVE FORWARD AND BACKWARD

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

- 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 mowed.

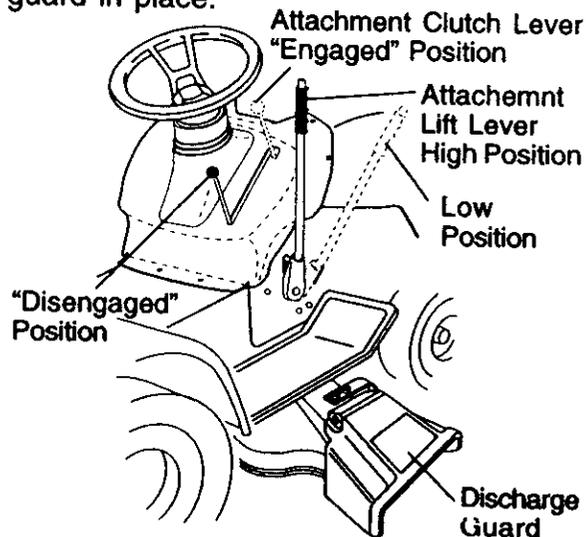
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

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



## TO OPERATE ON HILLS

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

## TO TRANSPORT

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

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

## TOWING CARTS AND OTHER ATTACHMENTS

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

## BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

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

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

## TO START ENGINE

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

- 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 "DISENGAGED" 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.

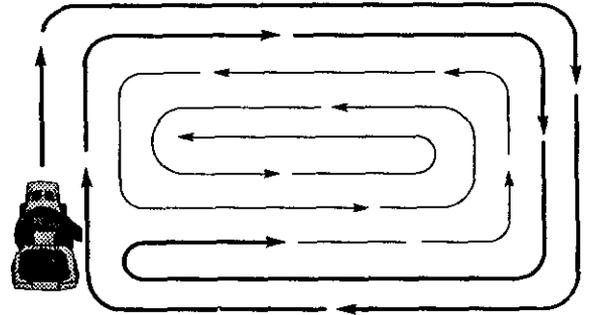
## COLD WEATHER STARTING ( 50° F and below)

- 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

- Tire chains cannot be used when the mower housing is attached to tractor.
  - Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
  - The left hand side of mower should be used for trimming.
  - Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
  - When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
  - Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
  - **Always operate engine at full throttle when mowing** to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
  - When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.





## TRACTOR

Always observe safety rules when performing any maintenance.

## BRAKE OPERATION

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

## TIRES

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

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

## OPERATOR PRESENCE SYSTEM

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

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

## BLADE CARE

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

## BLADE REMOVAL

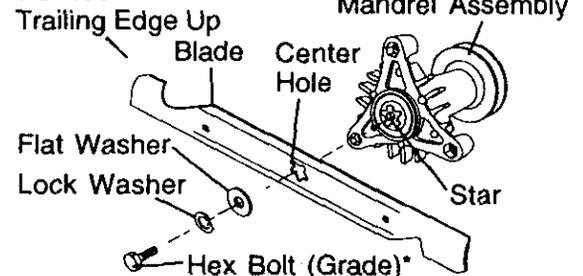
- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.

- 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

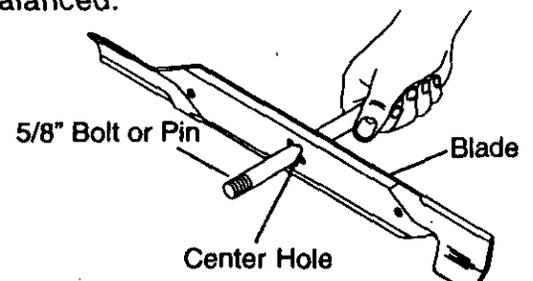
**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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.

SAE VISCOSITY GRADES	
← 5W-30 → SAE 30 →	
°F	-20° 0° 30° 32° 40° 60° 80° 100°
°C	-30° -20° -10° 0° 10° 20° 30° 40°
TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE	

**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.

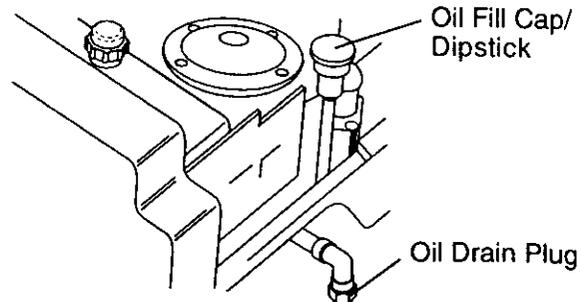
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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 "PRODUCT 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.



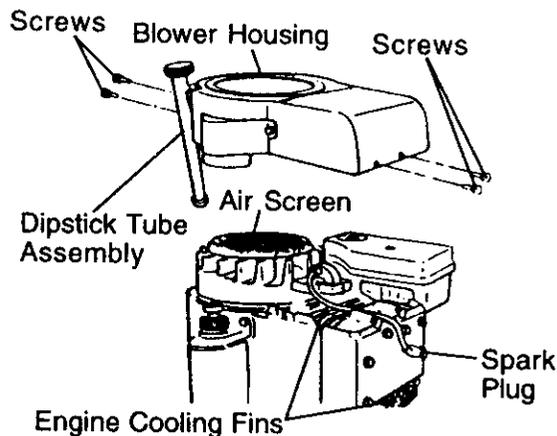
## CLEAN AIR SCREEN

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

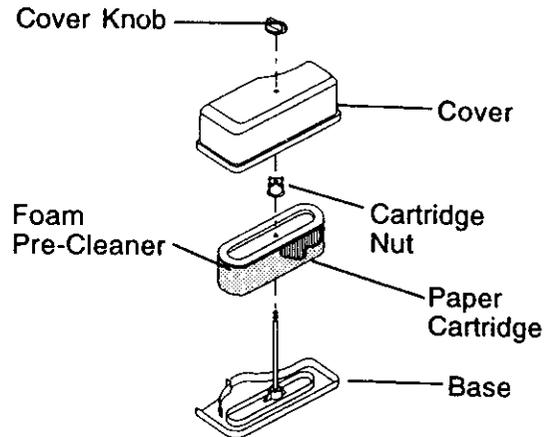
- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.
- If very dirty or damaged, replace pre-cleaner.
- Reinstall pre-cleaner over cartridge.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

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



## MUFFLER

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

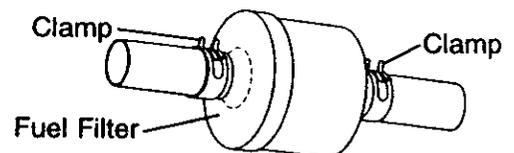
## SPARK PLUGS

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

## IN-LINE FUEL FILTER

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

- 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

**⚠ CAUTION:** 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.

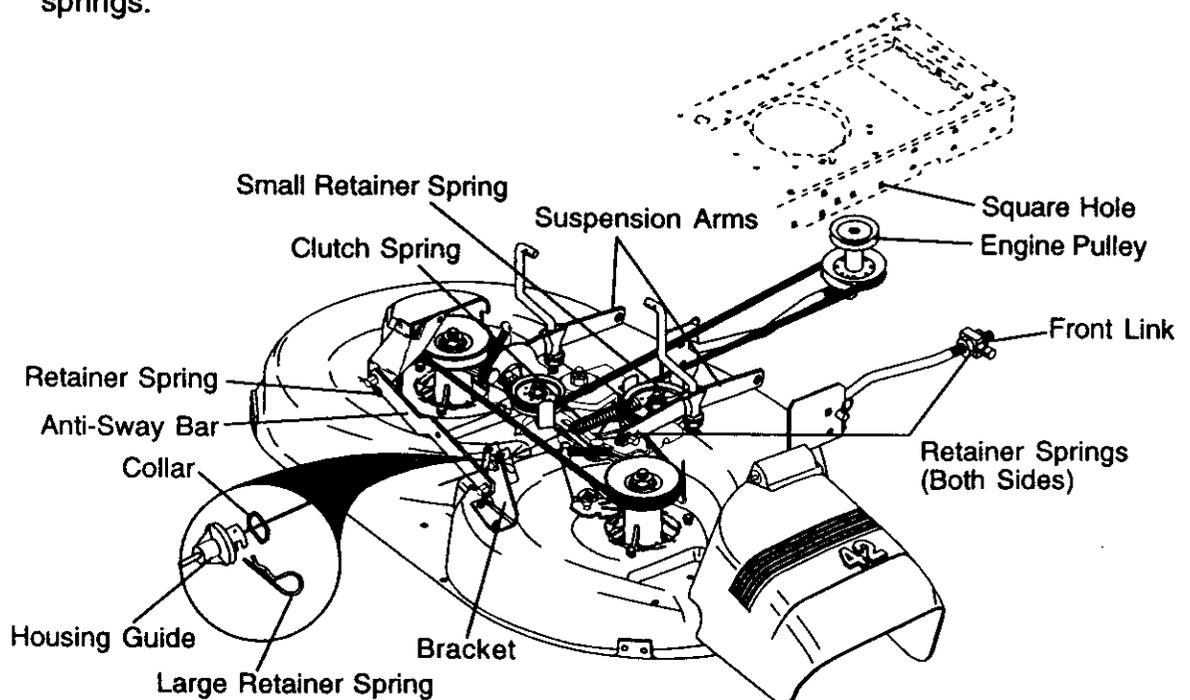
- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Remove small retainer spring, and lift clutch spring off pulley bolt.
- Remove large retainer spring, slide collar off and push housing guide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

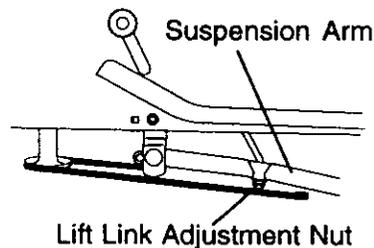
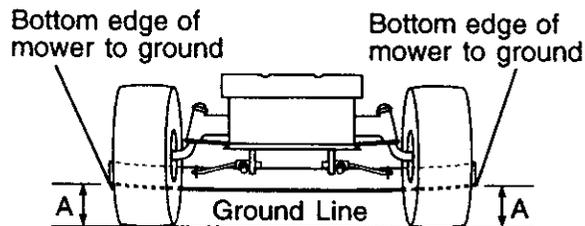
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

### SIDE-TO-SIDE ADJUSTMENT

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

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

- Recheck measurements after adjusting.



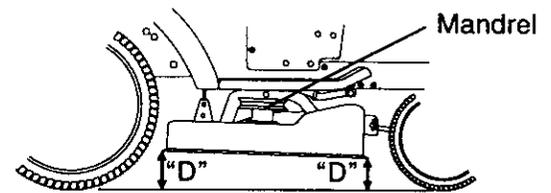
### FRONT-TO-BACK ADJUSTMENT

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

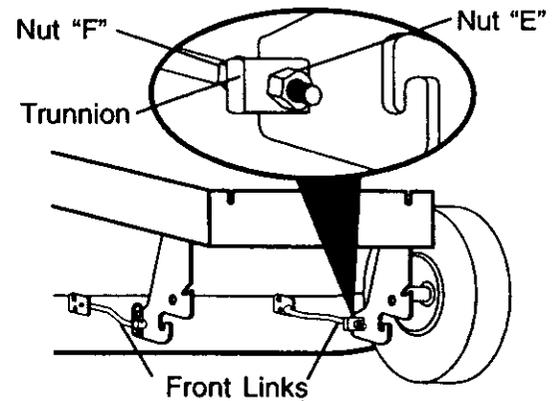
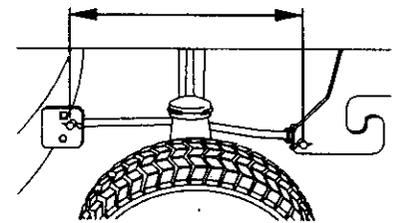
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

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



Both Front Links Should be Equal in Length



## TO REPLACE MOWER BLADE DRIVE BELT

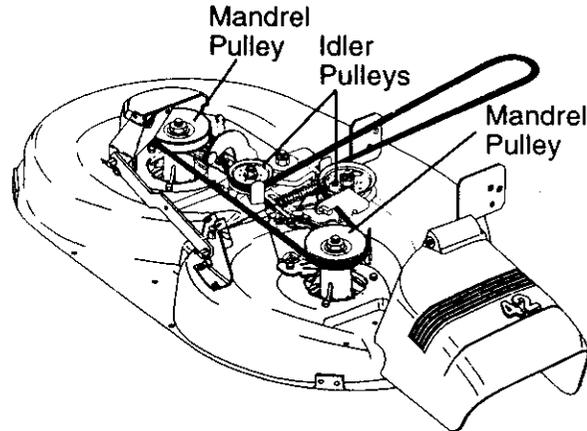
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

### BELT REMOVAL -

- 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

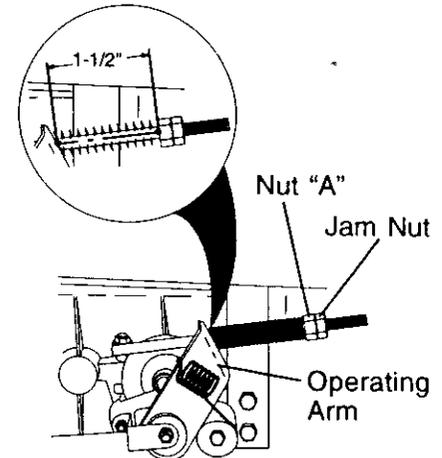
Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

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.

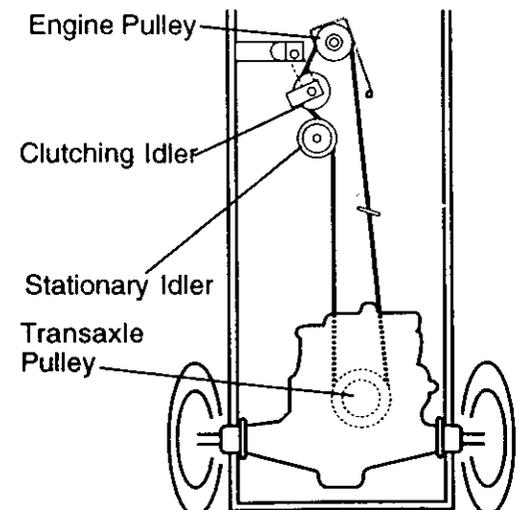
### With Parking Brake "Engaged"



## 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.



## 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.

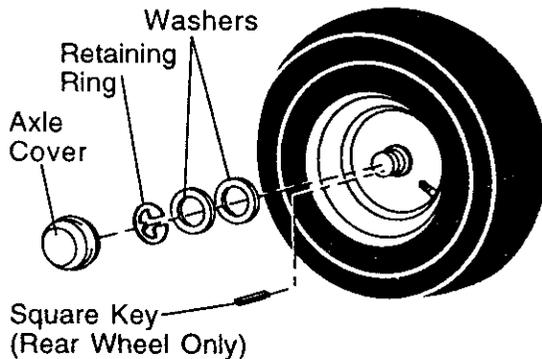
## FRONT WHEEL TOE-IN/CAMBER

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

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

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

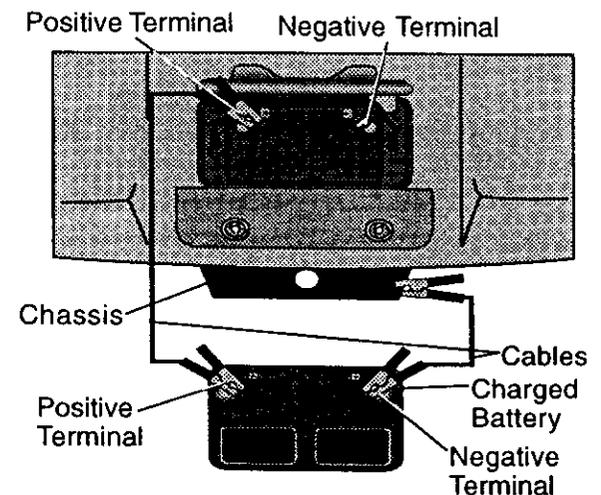
If "jumper cables" are used for emergency starting, follow this procedure: **IMPORTANT:** Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

## 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.

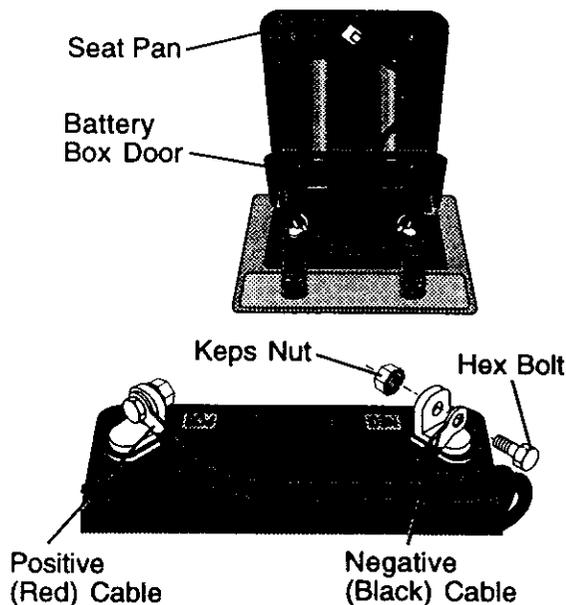


## REPLACING BATTERY

**⚠ 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 keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps 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.

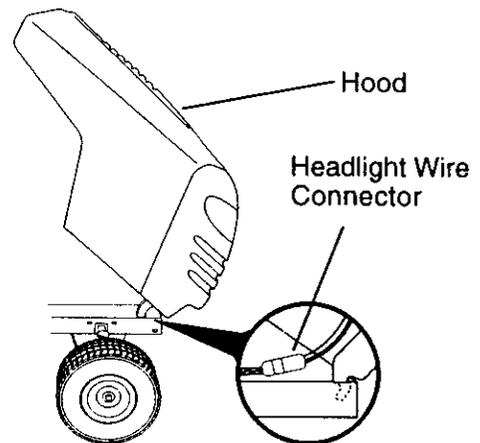
- Check wiring. See electrical wiring diagram in the Repair Parts section.

## 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

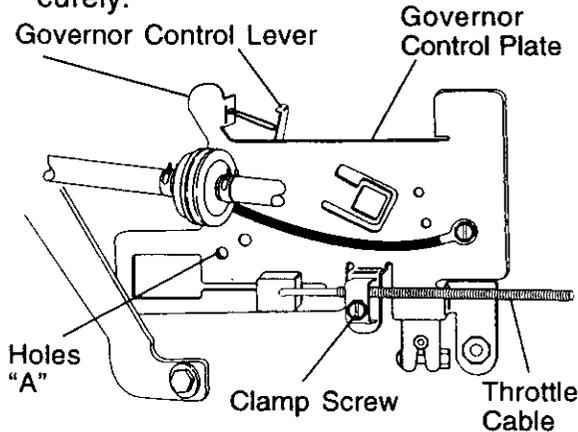
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

## TO ADJUST THROTTLE CONTROL CABLE

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

- 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.

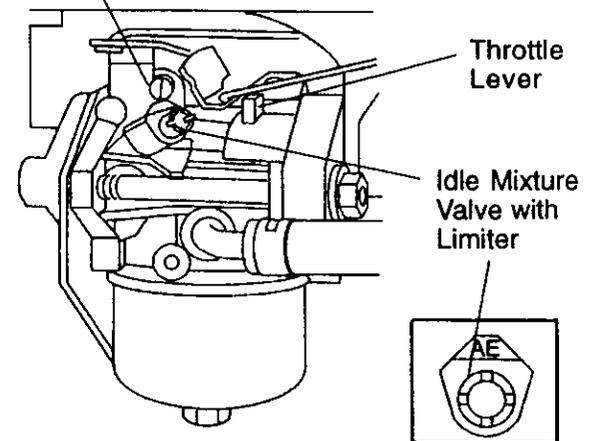
### ACCELERATION TEST -

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

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

**IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest Authorized service center/department, which has proper equipment and experience to make any necessary adjustments.

Idle Speed Screw



# STORAGE

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

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

## TRACTOR

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

- 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 (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.

- 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
<p><b>Loss of power</b></p> <p>fuel filter.</p>	<ul style="list-style-type: none"> <li>• Cutting too much grass/too fast.</li> <li>• Throttle in "CHOKE" position.</li> <li>• Build-up of grass, leaves and trash under mower.</li> <li>• Dirty air filter.</li> <li>• Low oil level/dirty oil.</li> <li>• Faulty spark plug.</li> <li>• Dirty fuel filter.</li> <li>• Stale or dirty fuel.</li> <li>• Water in fuel.</li> <li>• Spark plug wire loose.</li> <li>• Dirty engine air screen/fins.</li> <li>• Dirty/clogged muffler.</li> <li>• Loose or damaged wiring.</li> <li>• Carburetor out of adjustment.</li> <li>• Engine valves out of adjustment.</li> </ul>	<ul style="list-style-type: none"> <li>• Set in "Higher Cut" position/ reduce speed.</li> <li>• Adjust throttle control.</li> <li>• Clean underside of mower housing.</li> <li>• Clean/replace air filter.</li> <li>• Check oil level/change oil.</li> <li>• Clean and regap or change fuel filter.</li> <li>• Replace fuel filter.</li> <li>• Drain fuel tank and refill with fresh gasoline and replace carburetor.</li> <li>• Connect and tighten spark plug wire.</li> <li>• Clean engine air screen/fins.</li> <li>• Clean/replace muffler.</li> <li>• Check all wiring.</li> <li>• See "To Adjust Carburetor" in Service Adjustments</li> <li>• Contact an authorized service center/department.</li> </ul>
<p><b>Excessive vibration</b></p>	<ul style="list-style-type: none"> <li>• Worn, bent or loose blade.</li> <li>• Bent blade mandrel.</li> <li>• Loose/damaged part(s).</li> </ul> <p style="text-align: center;">Replace damaged parts.</p>	<ul style="list-style-type: none"> <li>• Replace blade. Tighten blade bolt.</li> <li>• Replace blade mandrel.</li> <li>• Tighten loose part(s).</li> </ul>
<p><b>Engine continues to run when operator leaves seat with attachment clutch engaged</b></p>	<ul style="list-style-type: none"> <li>• Faulty operator-safety presence control system.</li> </ul> <p style="text-align: center;">service center/department.</p>	<ul style="list-style-type: none"> <li>• Check wiring, switches and connections. If not corrected, contact an authorized service center/department.</li> </ul>
<p><b>Poor cut - uneven</b></p>	<ul style="list-style-type: none"> <li>• Worn, bent or loose blade.</li> <li>• Mower deck not level.</li> <li>• Buildup of grass, leaves, and trash under mower.</li> <li>• Bent blade mandrel.</li> <li>• Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace blade. Tighten blade bolt.</li> <li>• Level mower deck.</li> <li>• Clean underside of mower housing.</li> <li>• Replace blade mandrel.</li> <li>• Clean around mandrels to open vent holes.</li> </ul>
<p><b>Mower blades will not rotate</b></p>	<ul style="list-style-type: none"> <li>• Obstruction in clutch mechanism.</li> <li>• Worn/damaged mower drive belt.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove obstruction.</li> <li>• Replace mower drive belt.</li> </ul>

## TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Mower blades will not rotate (Cont'n)	<ul style="list-style-type: none"> <li>• Frozen idler pulley.</li> <li>• Frozen blade mandrel.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace idler pulley.</li> <li>• Replace blade mandrel.</li> </ul>
Poor grass discharge	<ul style="list-style-type: none"> <li>• Engine speed too slow. position.</li> <li>• Travel speed too fast.</li> <li>• Wet grass. mowing.</li> <li>• Mower deck not level.</li> <li>• Low/uneven tire air pressure.</li> <li>• Worn, bent or loose blade. Tighten blade bolt.</li> <li>• Buildup of grass, leaves and trash under mower.</li> <li>• Mower drive belt worn.</li> <li>• Blades improperly installed.</li> <li>• Improper blades used. in this manual.</li> <li>• Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ul>	<ul style="list-style-type: none"> <li>• Place throttle control in "FAST"</li> <li>• Shift to slower speed.</li> <li>• Allow grass to dry before</li> <li>• Level mower deck.</li> <li>• Check tires for proper air pressure.</li> <li>• Replace/sharpen blade.</li> <li>• Clean underside of mower housing.</li> <li>• Replace mower drive belt.</li> <li>• Reinstall blades sharp edge down.</li> <li>• Replace with blades listed</li> <li>• Clean around mandrels to open vent holes.</li> </ul>
Headlight(s) not working (if so equipped)	<ul style="list-style-type: none"> <li>• Switch is "OFF".</li> <li>• Bulb(s) burned out.</li> <li>• Faulty light switch.</li> <li>• Loose or damaged wiring.</li> <li>• Blown fuse.</li> </ul>	<ul style="list-style-type: none"> <li>• Turn switch "ON".</li> <li>• Replace bulb(s).</li> <li>• Check/replace light switch.</li> <li>• Check wiring and connections.</li> <li>• Replace fuse.</li> </ul>
Battery will not charge	<ul style="list-style-type: none"> <li>• Bad battery cell(s).</li> <li>• Poor cable connections.</li> <li>• Faulty regulator (if so equipped).</li> <li>• Faulty alternator.</li> </ul>	<ul style="list-style-type: none"> <li>• Replace battery.</li> <li>• Check/clean all connections.</li> <li>• Replace regulator.</li> <li>• Replace alternator.</li> </ul>
Engine "backfires" when turning engine "OFF"	<ul style="list-style-type: none"> <li>• Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ul>	<ul style="list-style-type: none"> <li>• Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ul>

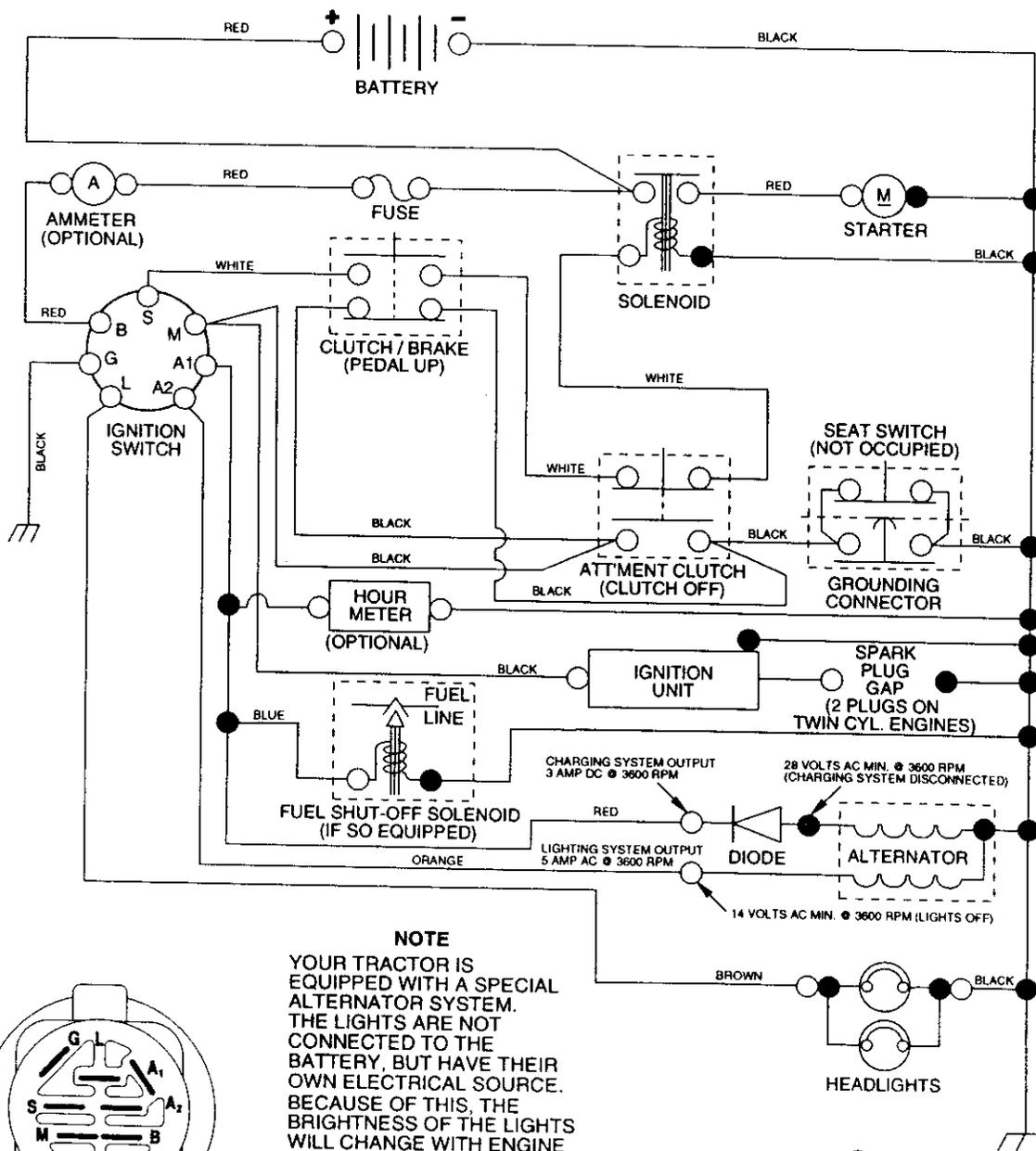
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## NOTES

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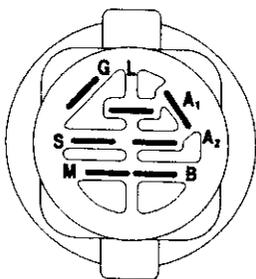
# TRACTOR -- MODEL NUMBER 917.270534

## SCHEMATIC



### NOTE

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



IGNITION SWITCH

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

### WIRING INSULATED CLIPS

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

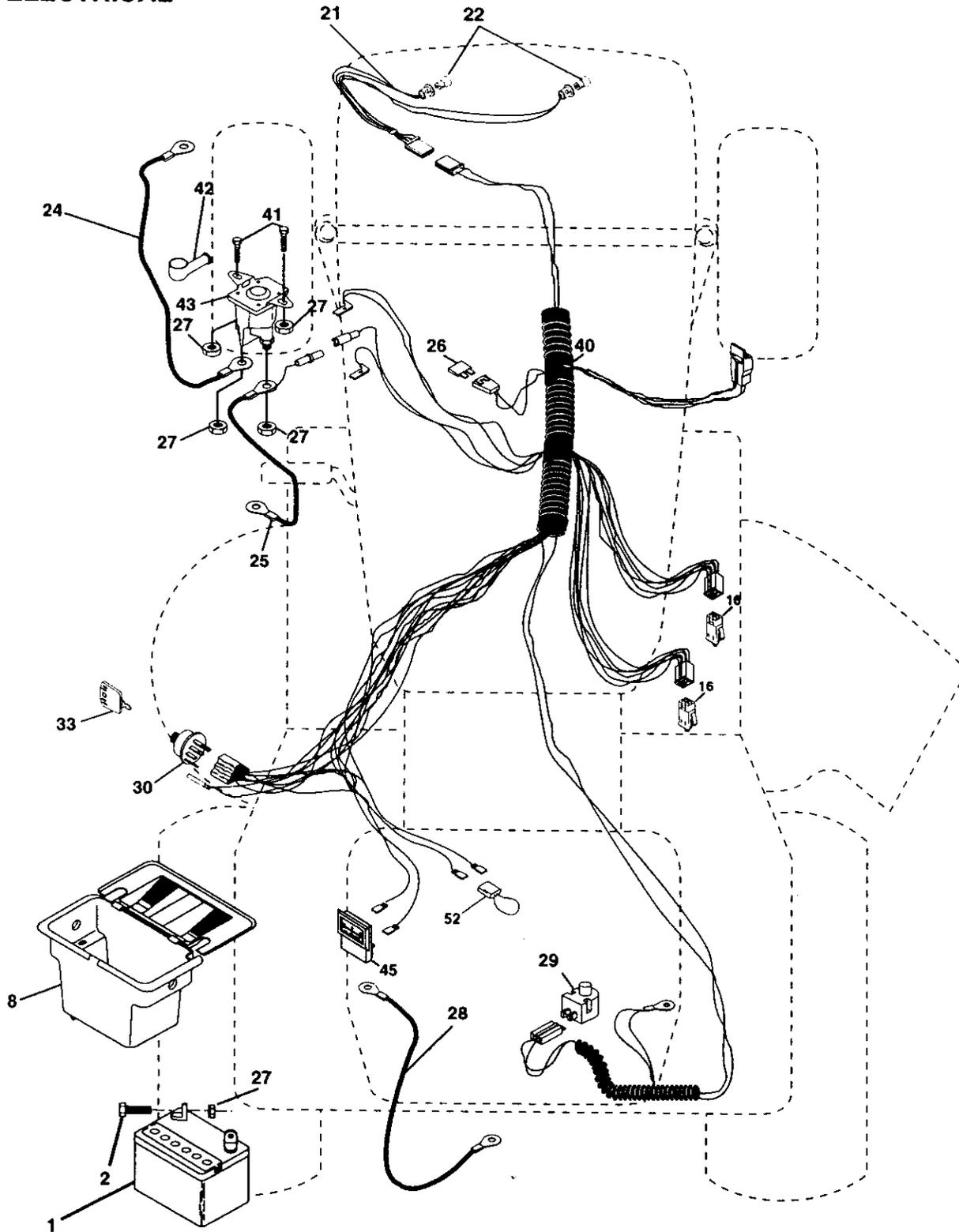
NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

# REPAIR PARTS

TRACTOR--MODEL NUMBER 917.270534

## ELECTRICAL



# TRACTOR -- MODEL NUMBER 917.270534

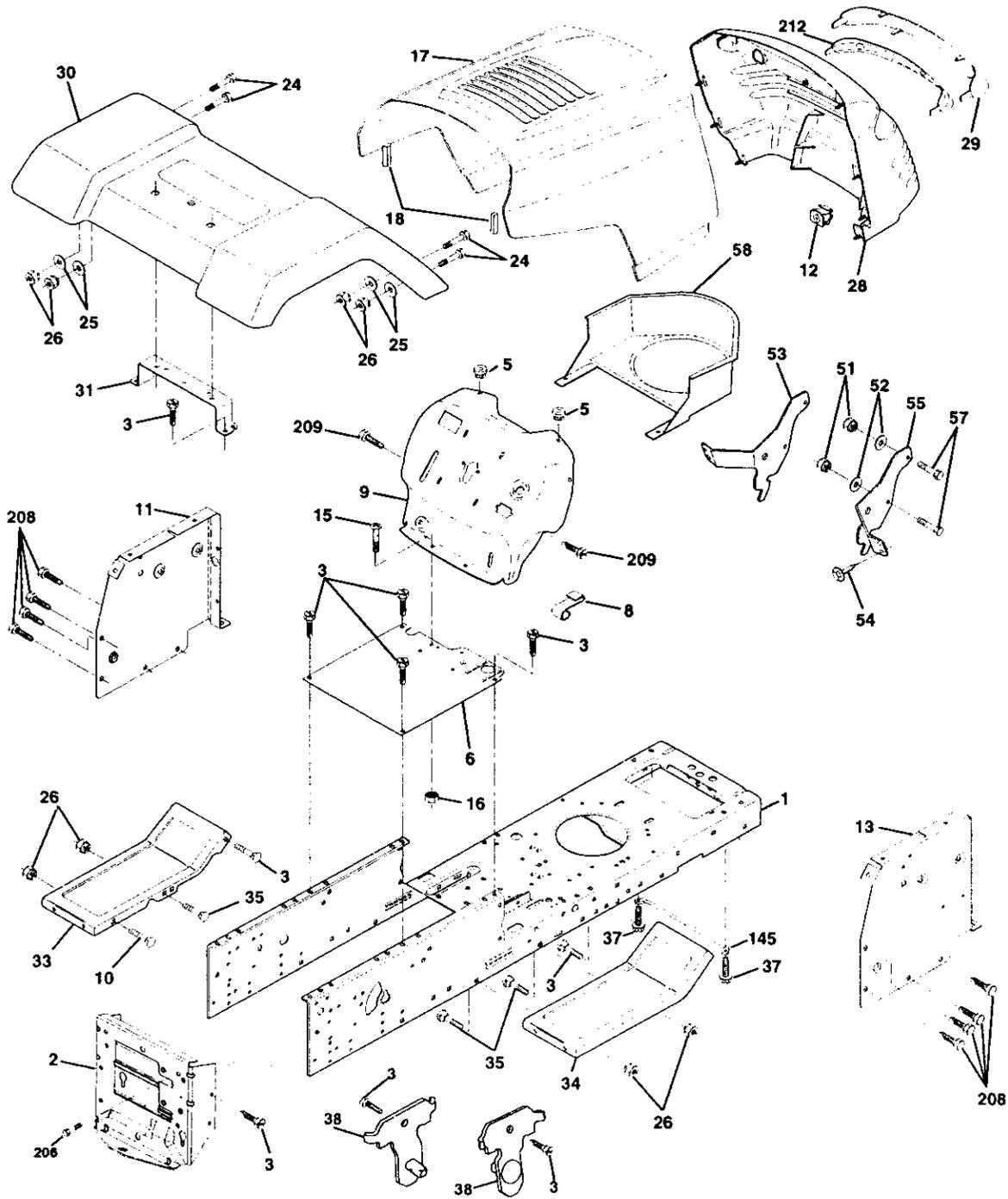
## ELECTRICAL

KEY PART NO.	NO.	DESCRIPTION
1	144925	Battery 12 Volt 25 AMP
2	74760412	Bolt Hex Hd 1/4-20unc X 3/4
8	156417	Case Battery
16	153664	Switch Interlock Push-In
20	73350400	Nut Jam Hex 1/4-20 Unc
21	166181	Harness Socket Light W/4152J
22	4152J	Bulb Light #1156
24	4799J	Cable Battery 6ga 11" red
25	146147	Cable Battery 6 Ga W/16 Wir red
26	166180	Fuse 15 AMP
27	73510400	Nut Keps Hex 1/4-20 Unc
28	4207J	Cable Ground 6ga 12" black
29	121305X	Switch Plunger Nc Gray
30	163968	Switch Ign Delta Push-In
33	140403	Key Ign Molded Craftsman, Delta
40	170217	Harness Ign
41	71110408	Bolt Blk Hex 1/4-20unc x 1/2
42	131563	Cover Terminal Red
43	145673	Solenoid
45	121433X	Ammeter Rectangular 6 AMP
52	141940	Protection Wire Loop

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

# TRACTOR -- MODEL NUMBER 917.270534

## CHASSIS AND ENCLOSURES



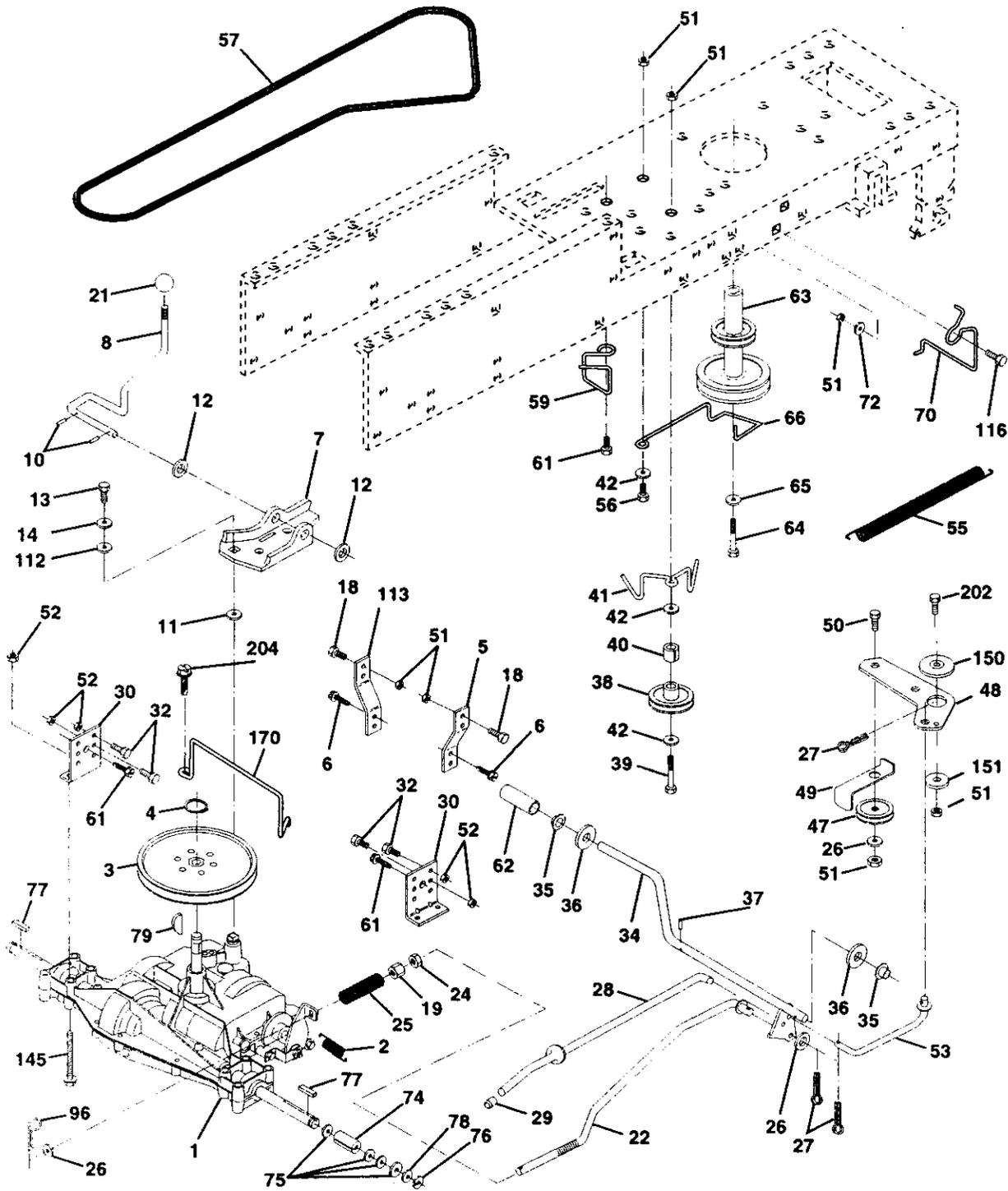
**TRACTOR -- MODEL NUMBER 917.270534**  
**CHASSIS AND ENCLOSURES**

KEY PART NO. NO.	DESCRIPTION
1 169831	Chassis Lt Stamping
2 169061	Drawbar
3 17060612	Screw 3/8-16 x 3/4
4 19131216	Washer 13/32 x 3/4 x 16 Ga.
5 155272	BumperHood/Dash
6 155924X012	Saddle SLKSCREFLT SDL
8 126471X	Clip Insulator .406 Mtg Hole
9 168348X010	Dash Slkscr Plm Mech Sym
10 72140608	Bolt RdHd Sqnk. 3/8-16 x 1
11 155927	Panel Asm. Dash Lh
12 145660	Clip Tinnerman Grille P/L
13 169117X010	Panel Dash Rh
14 17670608	Screw Thdrol. 3/8-16 x 1/2
15 74180512	Screw Mach Trhd 5/16-18unc x 3/4
16 73510500	Nu Keps 5/16-18unc
17 159639X558	Hood Pnt Steel Private Label
18 126938X	BumperHood
24 74780616	Bolt Fin Hex 3/8-16 Unc x 1 Gr. 5
25 19131312	Washer 13/32 x 13/16 x 12 Ga.
26 73800600	Nut Lock Hex w/Ins 3/8-16 Unc
28 140434	Grill Private Lable Blk
29 140273X599	Lens Grille Private label
30 169465X558	Fender Pnt
31 136619	Bracket Fender Support
33 145244X558	Footrest Pnt. Lh
34 145243X558	Footrest Pnt. Rh
35 72110606	Bolt RdHd Sht. Sqnk. 3/8-16 x 3/4
37 17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
38 169834	Bracket Asm. Pivot Mower Rear
51 73800400	Nut Lock Hex W/Ins. 1/4-20
52 19091416	Washer 9/32 x 7/8 x 16 Ga.
53 144697	Bracket Grille LH
54 161464	Screw Hex Wshd #8-18 x 7/8
55 144696	Bracket, Grille RH
57 74780412	Bolt Fin Hex 1/4-20 x 3/4
58 150127	Air Duct Private Label LT Engine
145 156524	Rod Pivot Chassis /Hood
194 17060612	Screw 3/8-16 x 3/4
206 170165	Bolt Shoulder 5/16-18 TT
209 17000612	Screw Hex Wsh Thdrol 3/8-16 BL
212 156229	Insert Lens Reflective
-- 5479J	Plug Button Blk .359 Dia. Choke

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

# TRACTOR--MODEL NUMBER 917.270534

## GROUND DRIVE



# TRACTOR -- MODEL NUMBER 917.270534

## GROUND DRIVE

**KEY PART  
NO. NO.**

**DESCRIPTION**

1	----	Transaxle (See Breakdown)
2	146682	Peerless 206-545C
3	123666X	Spring Return Brake T/a Zinc
4	12000028	Pulley Transaxle 18/20" tires
5	121520X	Ring Retainer # 5100-62
6	17060512	Strap Torque 30 Degrees
7	162240	Screw 5/16-18 x 3/4
8	131679	Bracket Saddle Shift T/a
10	STD561210	Rod Shf Sdl LY/YT Str Blk Zinc
11	105701X	Pin Cotter 1/8 x 1 Cad
12	19151216	Washer Plate Shf 388 Sq Hole
13	74550412	Washer 15/32 x 3/4 x 16ga
14	STD551125	Bolt 1/4-28unf Gr8 W/Patch
18	STD523710	Washer Lock Hvy Helical 1/4
19	STD541437	Bolt Fin Hex 3/8-16 x 1
21	106933X	Nut Lock Hex W/Ins. 3/8-16 Unc
22	130804	Knob Rd 1/2-13 Plstc Thds Blk
24	STD541237	Rod Brake Blk Zinc 26 840
25	106888X	Nut Hex Jam 3/8-16 Unc
26	STD551037	Spring Rod Brake 2 00 Zinc
27	STD561210	Washer 13/32 x 13/16 x 16 Ga
28	145204	Pin Cotter 1/8 x 3/4 Cad
29	71673	Rod Brake Parking Lt/Yt
30	130807	Cap Brake Parking
31	127275X	Bracket Mtg Transaxle
32	STD523107	Keeper Belt LH LT 14 Ga
34	155071	Bolt Hex Hd 5/16-18unc x 3/4
35	120183X	Shaft Asm Pedal Foot
36	STD551062	Bearing Nylon Blk 629 Id
37	STD571810	Washer 21/32 x 1 x 16 Ga
38	131494	Pin Roll 3/16 x 1"
39	72110622	Pulley Idler Flat
40	4470J	Bolt Rdhd 3/8-16unc x 2-3/4 Gr. 5
41	165838	Spacer Split 395 x 59 Bzp
42	19131312	Keeper Belt Idler
		Washer 13/32 x 13/16 x 12 Ga

**KEY PART  
NO. NO.**

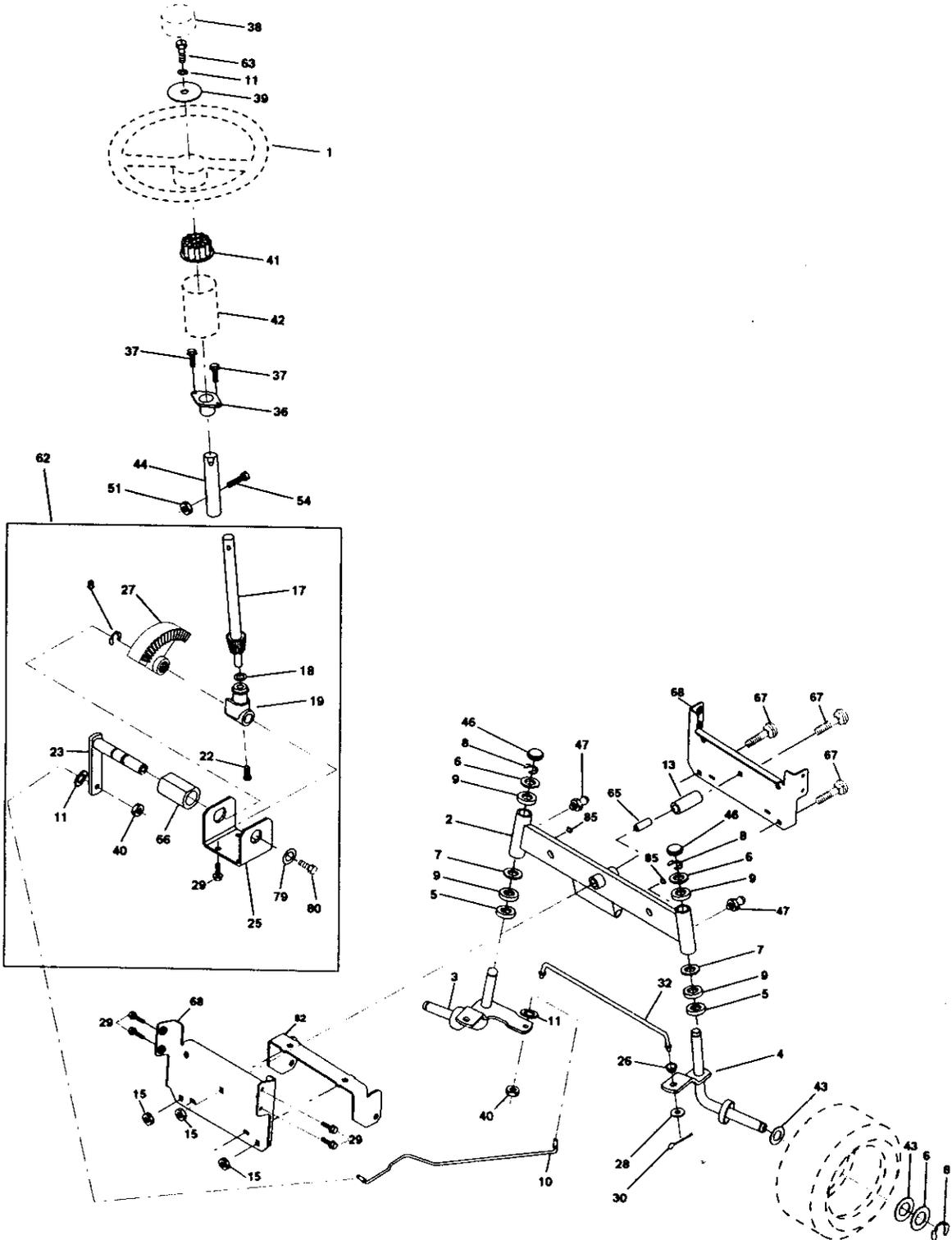
**DESCRIPTION**

47	127783	Pulley Idler V Groove Plastic
48	154407	Bellcrank Clutch Gm Drv Stl
49	123205X	Retainer Belt Style Spring
50	STD523715	Bolt Hex Hd 3/8-16unc x 1-1/2
51	STD541437	Nut Crownlock 3/8-16 UNC
52	STD541431	Nut Crown Lock 5/16-18
53	105710X	Link Clutch 7 66
55	105709X	Spring Return Clutch 6 75
56	STD523712	Bolt Fin Hex 3/8-16 unc x 1-1/4
57	130801	V-Belt Gd Drive
58	127274X	Keeper Belt RH LT Pnt/zinc 16g
59	169595	Keeper Belt Centerspan
61	17060612	Screw 3/8-16 x 3/4
62	8883R	Cover Pedal Blk Round
63	140186	Pulley Eng Cl Mech 38deg LT/YT
64	71170764	Bolt Hex 7/16-20 x 4 Gr 5
65	STD551143	Washer Lock Hvy Hlcl Spr 7/16
66	154778	Keeper Belt Engine
70	134683	Guide Belt Mower Drive RH
72	19132012	Washer 13/32 x 1-1/4 x 12 Ga
74	137057	Spacer Axle
75	121749X	Washer 25/32 x 1 1/4 x 16 Ga
76	STD581075	E-ring #5133-75
77	123583X	Key Square 2 0 x 1845/ 1865
78	121748X	Washer 25/32 x 1-5/8 x 16ga
79	2228M	Key Woodruff #9 3/16 x 3/4
96	4497H	Retainer Spring
112	19091210	Washer 9/32 x 3/4 x 10 Ga
113	127285X	Strap Torque
116	72110610	Bolt Rdhd Sq Neck 3/8-16 x 1.25
145	74490540	Bolt Hex FLGHD 5/16-18 Gr. 5
150	165850	Bushing Bellcrank Grd. Drive
151	19133210	Washer 13/32 x 2 x 10 Ga
170	165849	Keeper Belt Transaxle Gear
202	72110612	Bolt Carr Sh 3/8-16 x 1-1/2 Gr. 5

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

# TRACTOR--MODEL NUMBER 917.270534

## STEERING



# TRACTOR -- MODEL NUMBER 917.270534

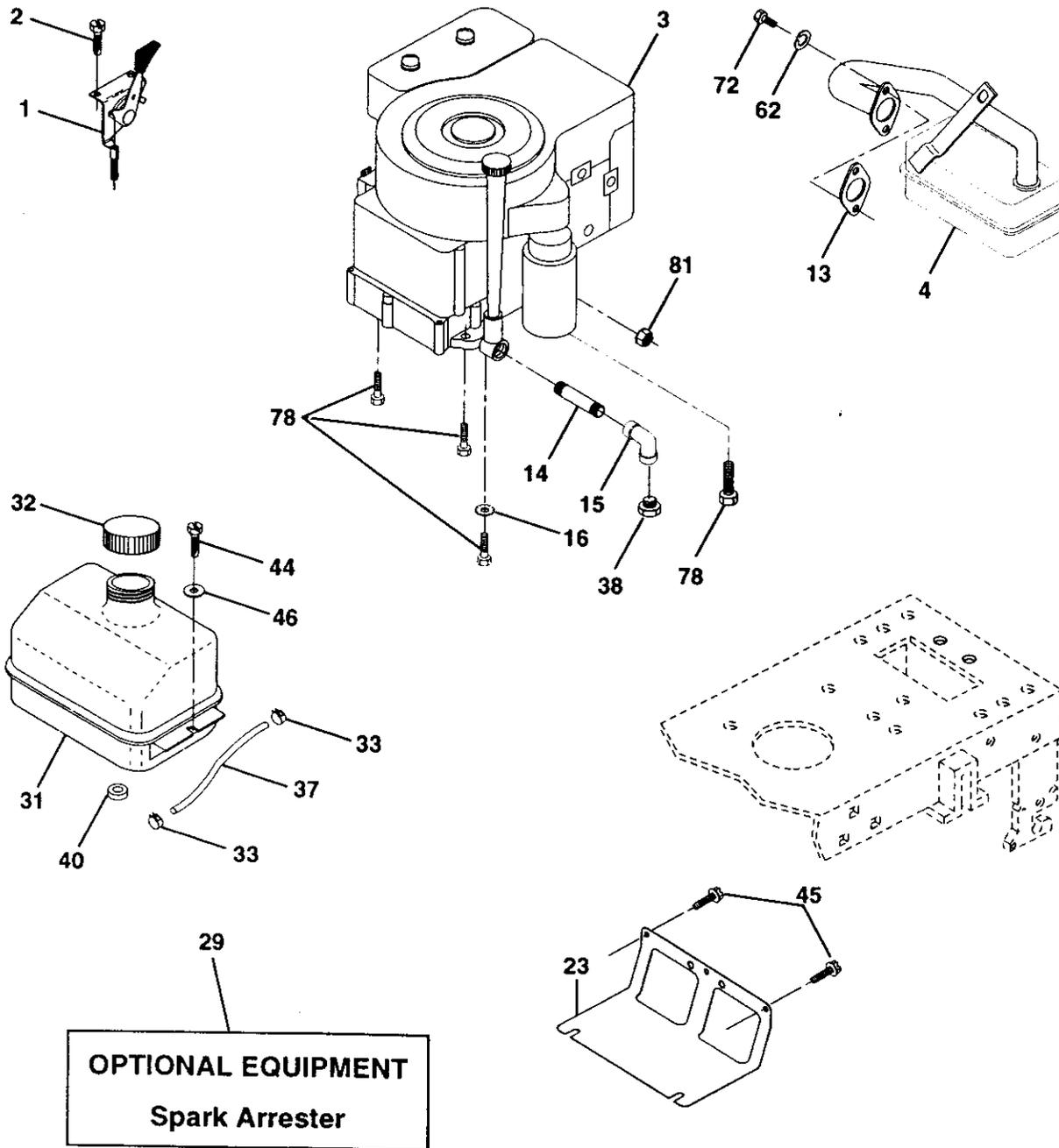
## STEERING

KEY PART NO.	PART NO.	DESCRIPTION
1	139768	Wheel Steering Opp Sears Blk
2	154427	Axle Asm Front Lt
3	156483	Spindle Asm Lh
4	157473	Spindle Asm Rh
5	6266H	Washer Thrust .75 x 1.230
6	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
7	19272016	Washer 27/32 x 1-1/4 x 16 Ga.
8	12000029	RingKlip #T5304-75
9	3366R	Bearing Col Strg Blk
10	169832	Draglink
11	10040600	Washer Lock Hvy Hlcl Spr 3/8
13	136518	Spacer Brg Axle Front
15	145212	Nut Hexflange Lock
17	156546	Shaft Asm Strg
18	57079	Washer Thrust .515 x .750 x .033
19	160395	Support Shaft
22	165857	Screw Hex Wsh Hd Torx
23	165851	Shaft Asm Pitman
25	154406	Bracket Steering
26	126847X	Bushing Link Drag Blk LR
27	136874	Gear Sector 22 Teeth
28	19131416	Washer 13/32 x 7/8 x 16 Ga.
29	17060612	Screw 3/8-16 x 3/4
30	STD561210	Pin Cotter 1/8 x 3/4 Cad
32	130465	Rod Tie Wire Form 19.75 Mech
36	155099	Bushing Strg. 5/8 ID Dash
37	152927	Screw
38	139769	Cap Wheel Steer Opp Sears USA
39	19133812	Washer 13/32 x 2-3/8 x 12 Ga.
40	7810H	Nut Lock Center 3/8-24
41	100711L	Adaptor Wheel Strg.
42	145054X428	Boot Steering Dash P/L MTL Blk
43	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
44	153720	Extension Steering Non-adjust
46	121232X	Cap Spindle Fr Top Blk
47	6855M	Fitting Grease
51	73800500	Nut Lock Hx W/Ins 5/16-18unc
54	74780520	Bolt Fin Hex 5/16-18unc
62	167902	Steering Assembly
63	74780616	Bolt Fin Hex 3/8-16unc x 1 Gr. 5
65	160367	Spacer Axle
66	154404	Bearing Arm Pittman
67	72110618	Bolt Rdhd Sqnk 3/8-16 x 2-1/4
68	169827	Brace Axle
79	19132012	Washer 13/32 x 1-1/4 x 12 Ga
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4
82	169835	Bracket Susp Chasis Front
85	133835	Fastner Christmas Tree

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

# TRACTOR -- MODEL NUMBER 917.270534

## ENGINE



# TRACTOR -- MODEL NUMBER 917.270534

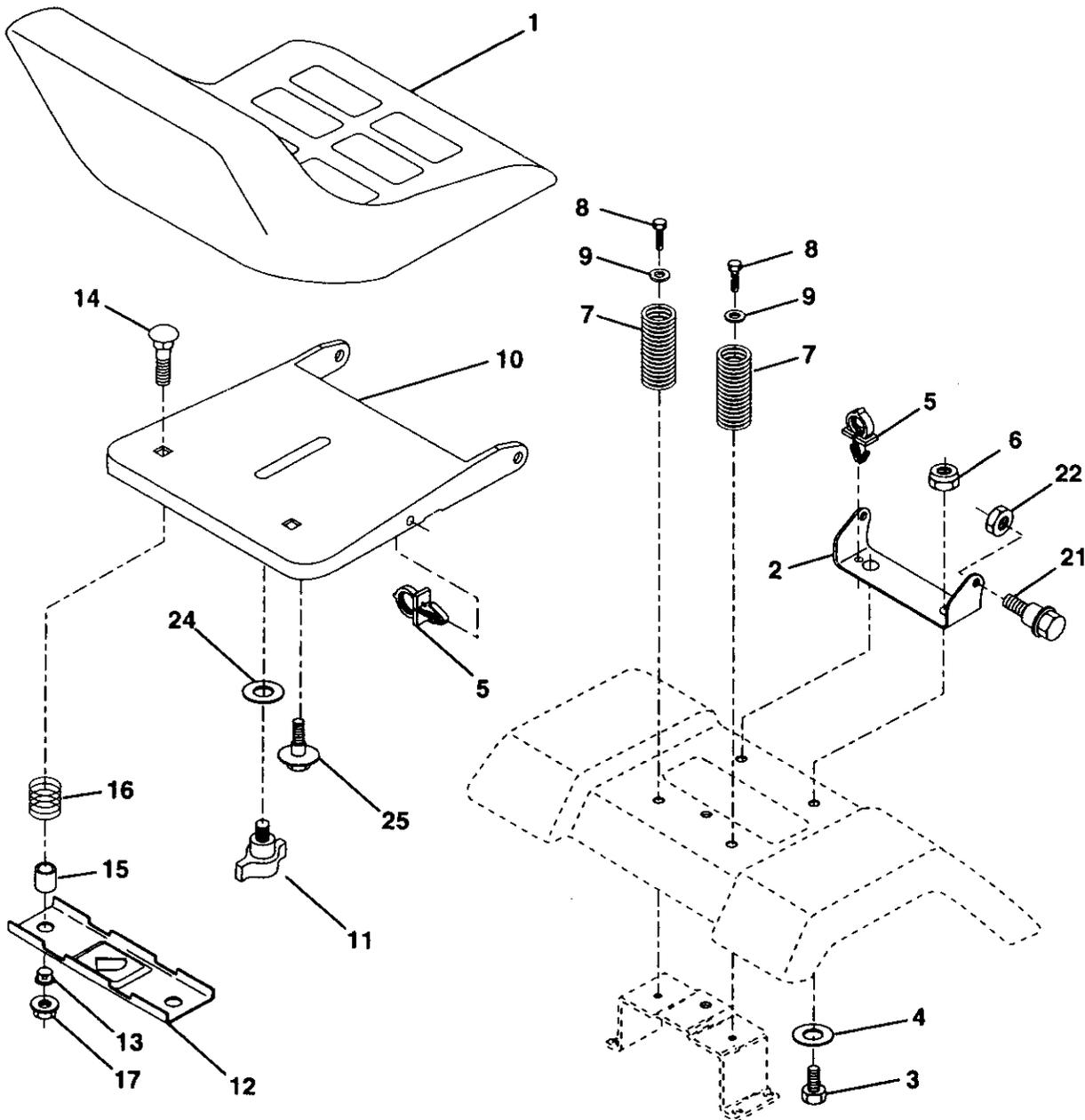
## ENGINE

KEY PART NO.	NO.	DESCRIPTION
1	162157	Control Th/ch LH IV 1 80 20 22
2	17720410	Screw Hex Thd Cut 1/4-20x5/8 T
3	-----	Engine (See Breakdown) Briggs, Model No 28U707-1174-E3
4	137352	Muffler Exh LT B&S 14HP IC OHV
13	165291	Gasket Eng 1 313 Id Tin Plated
14	13280324	Nipple Pipe 3/8 Npt x 3"
15	13200300	Elbow Std 90 Degree 3/8-18 Npt
16	STD551237	Washer Lock Ext Tooth 3/8
23	169837	Shield Browning/Debris Guard
29	137180	Kit Spark Arrestor (Flat Scm)
31	109202X	Tank Fuel Front 1 25
32	158990	Cap Asm Fuel Sears Vented
33	123487X	Clamp Hose Blk
37	137040	Line Fuel 20"
38	-----	Plug Oil Drain (See Engine Breakdown)
40	124028X	Bushing Snap Nyl Blk Fuel Line
44	17490412	Screw Hexwsh Thdrol 1/4-20 x 3/4
45	17060612	Screw 3/8-16 x 3/4
46	19091416	Washer 9/32 x 7/8 x 16 ga
62	STD551131	Washer Lock Hvy Hlcl Spr 5/16
72	71070512	Screw Hex Hd Cap 5/16-18 X 3/4
78	17060620	Screw 3/8-16 x 1-1/4
81	128861	Nut Flange 1/4-20 Starter Nut

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

# TRACTOR -- MODEL NUMBER 917.270534

## SEAT ASSEMBLY



### KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
1	140122	Seat
2	140551	Bracket Pvt St
3	71110616	Bolt Fin Hex 3/8-16unc X 1
4	19131610	Washer Flat 13/32 X 1 X 10 Ga
5	145006	Clip Push-In Hinged
6	STD541437	Locknut Hex W/Wsh 3/8-16
7	124181X	Spring Seat Cprsn 2 250 Blk Zi
8	17000616	Screw 3/8-16 X 1-1/2
9	19131614	Washer 13/32 X 1 X 14 Ga
10	155925	Pan Seat
11	166369	Knob Seat Adj. Wingnut
12	121246X	Bracket Mounting Switch

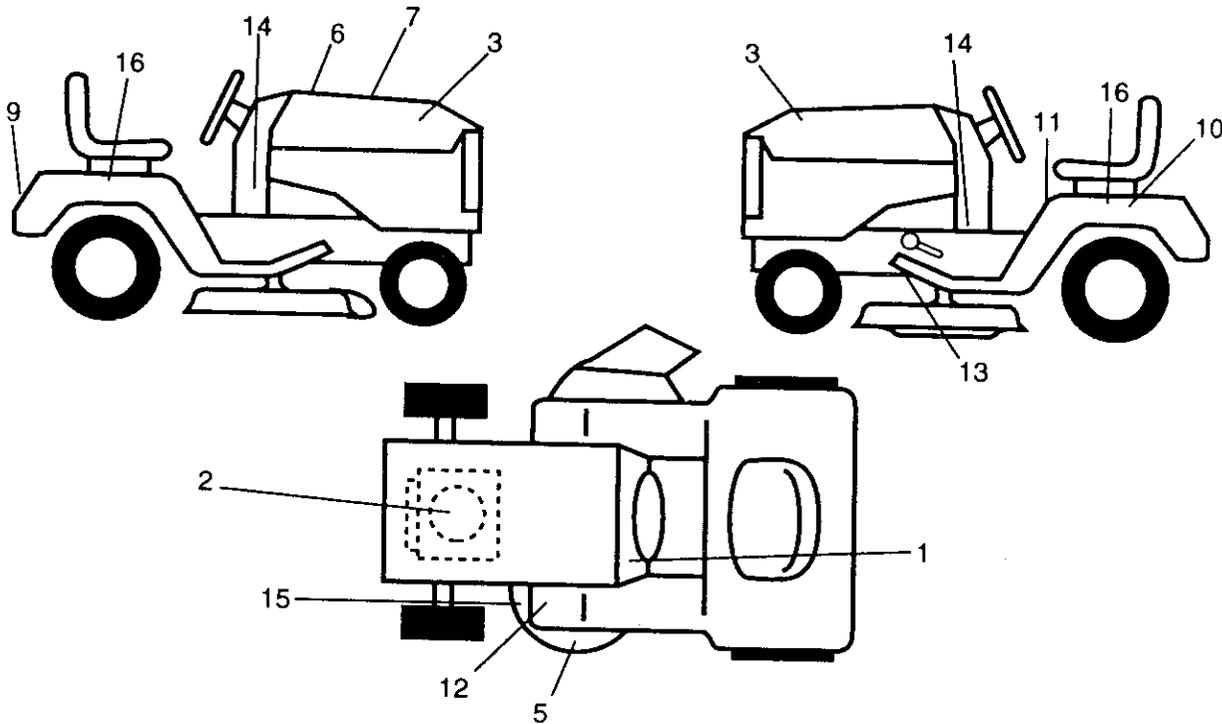
### KEY PART NO. NO.

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

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

# TRACTOR -- MODEL NUMBER 917.270534

## DECALS



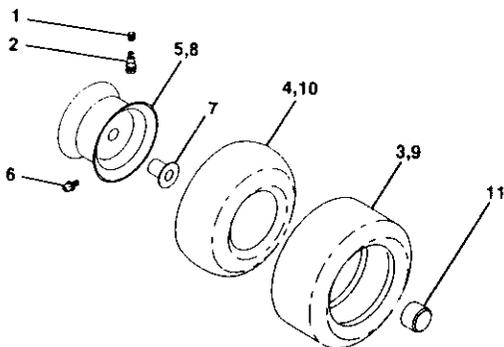
### KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
1	156867	Decal Dash Inst Oper English
2	165393	Decal HP Engine
3	171704	Decal Hood Logo
5	133179	Decal Mower QC System
6	133644	Decal Maint Cust Sears Domesti
7	171760	Decal Replcmnt Sears
9	163204	Decal Fender Craftsman White
10	149516	Decal Battery Dngr/Psn Eng Acme

### KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
11	156439	Decal Danger Fender Eng/span
12	4900J	Decal Clutch/brake English
13	146046	Decal V-Belt Dr Sch Tractor
14	163249	Decal Panel Dash 6sp 42"
15	160396	Decal V-Belt Sch
16	163207	Decal Fender Sd 6/42
--	157199X428	Pad Footrest
--	138311	Decal Handle Lft Height Adjust
--	174675	Manual Owners English
--	174676	Manual Owners Spanish

## WHEELS AND TIRES



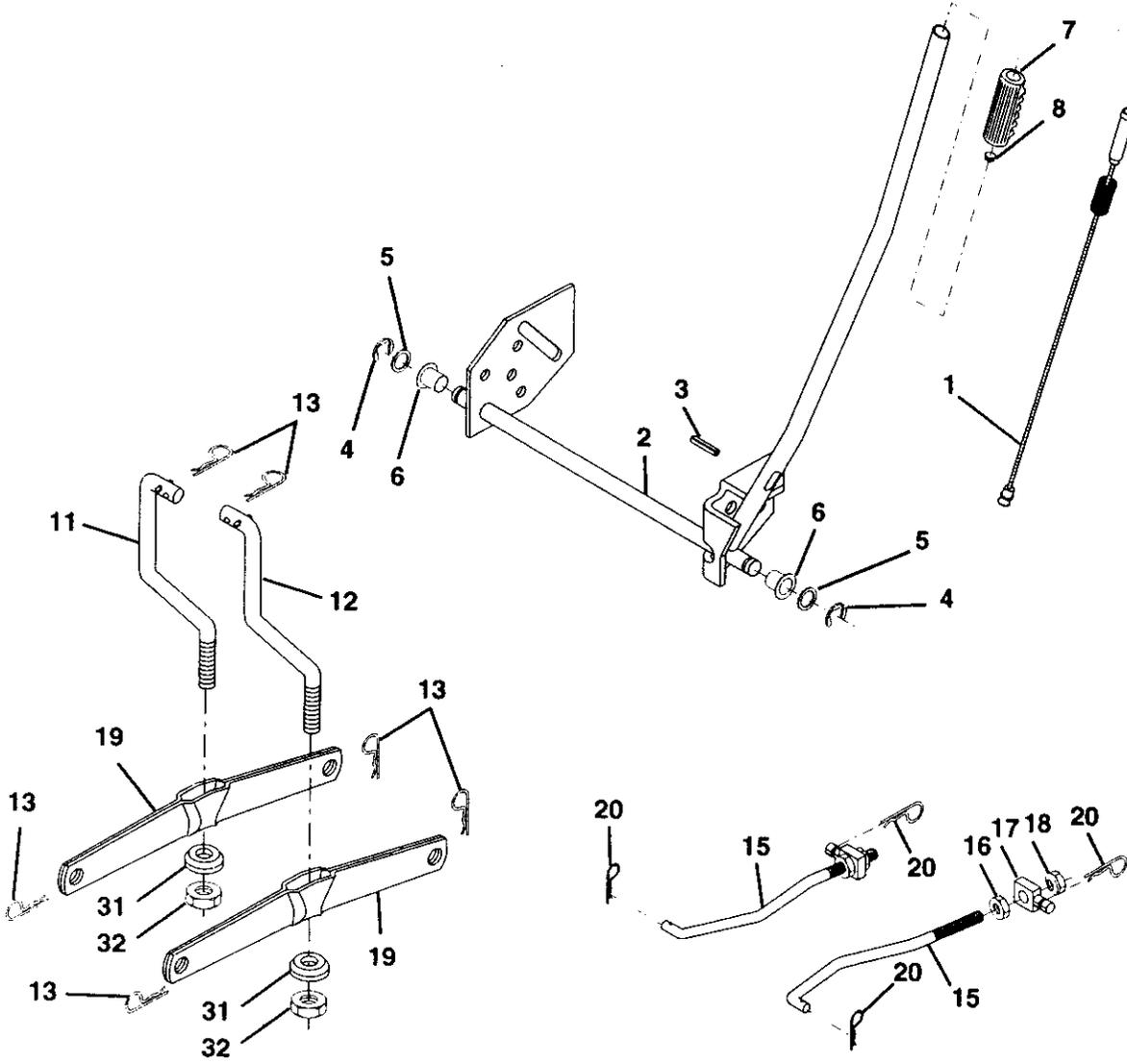
### KEY PART NO. NO.

KEY PART NO.	NO.	DESCRIPTION
1	59192	Cap Value Tire
2	65139	Stem Value
3	106222X	Tire F Ts 15 X 6 0 - 6 Service
4	59904	Tube Inner Front #35060
5	106732X427	Rim Asm 6"front White Service
6	278H	Fitting Grease
7	9040H	Bearing Flange
8	106108X427	Rim Asm 8"rear White Service
9	106268X	Tire R Ts 18x9 5-8 Service
10	7152J	Tube Rear 9 5 X 8 Service
11	104757X	Cap Axle Blk 1 50 X 1 00
--	144334	Sealant, Tire (10 oz. tube)

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

# TRACTOR--MODEL NUMBER 917.270534

## LIFT ASSEMBLY



# TRACTOR -- MODEL NUMBER 917.270534

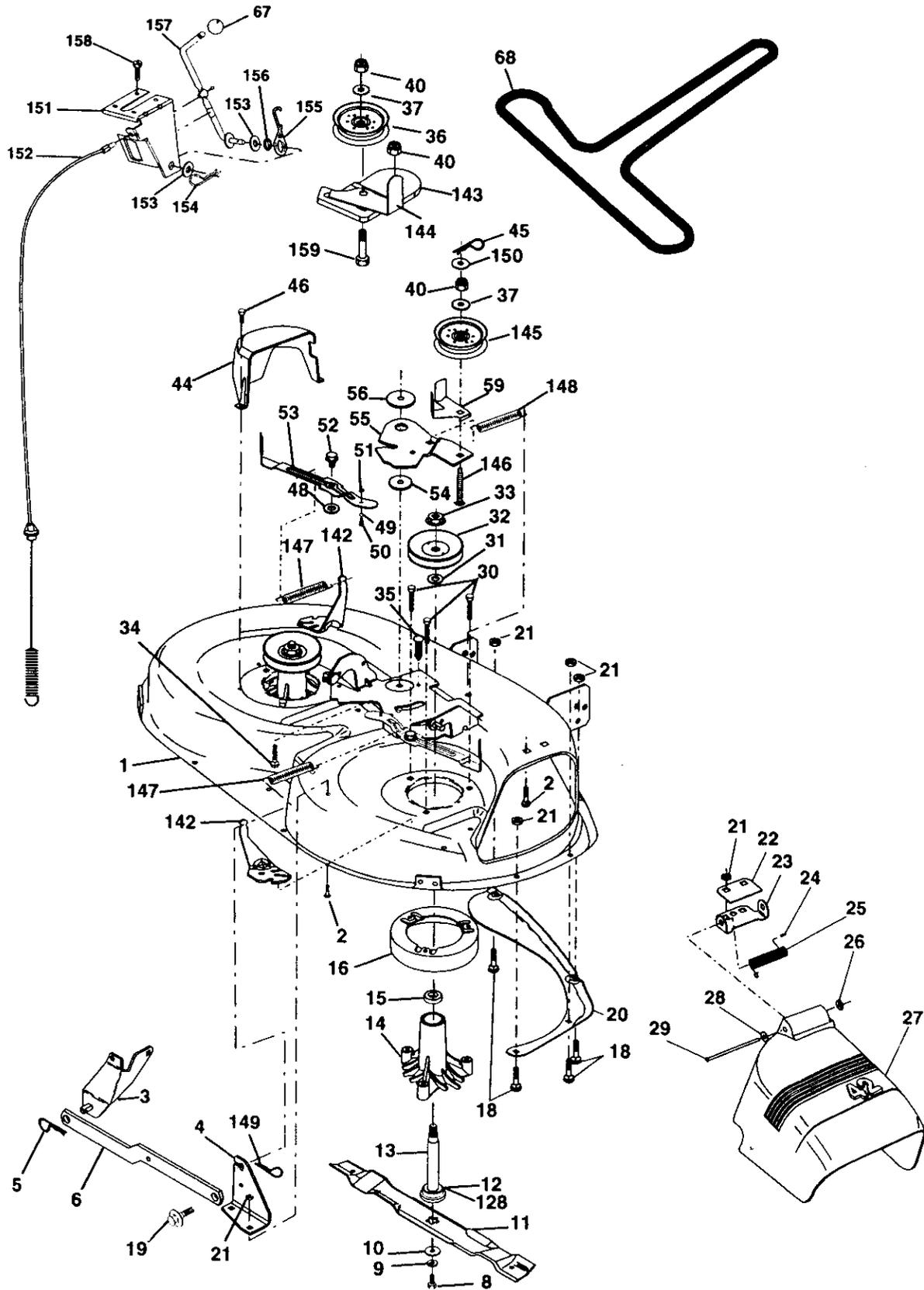
## LIFT ASSEMBLY

KEY PART NO.	NO.	DESCRIPTION
1	159460	Wire Asm Inner/Sprg W/plunger LT
2	159471	Shaft Asm Lift
3	105767X	Pin Groove 1 500 Zinc
4	12000002	E Ring #5133-62
5	19211621	Washer Pltd 21/32 X 1 X 21ga
6	120183X	Bearing Nylon Blk 629 Id
7	125631X	Grip Handle Fluted Blk
8	122365X	Button Plunger Red
11	139865	Link Lift LH
12	139866	Link Lift RH
13	STD624008	Retainer Spring
15	167253	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73800800	Nut Lock W/Wsh 1/2-13unc
19	139868	Arm Suspension Rear
20	163552	Retainer Spring Zinc
31	140302	Bearing Pvt Lift Spherical
32	73540600	Nut Crownlock 3/8-24

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

# TRACTOR -- MODEL NUMBER 917.270534

## MOWER DECK



# TRACTOR-- MODEL NUMBER 917.270534

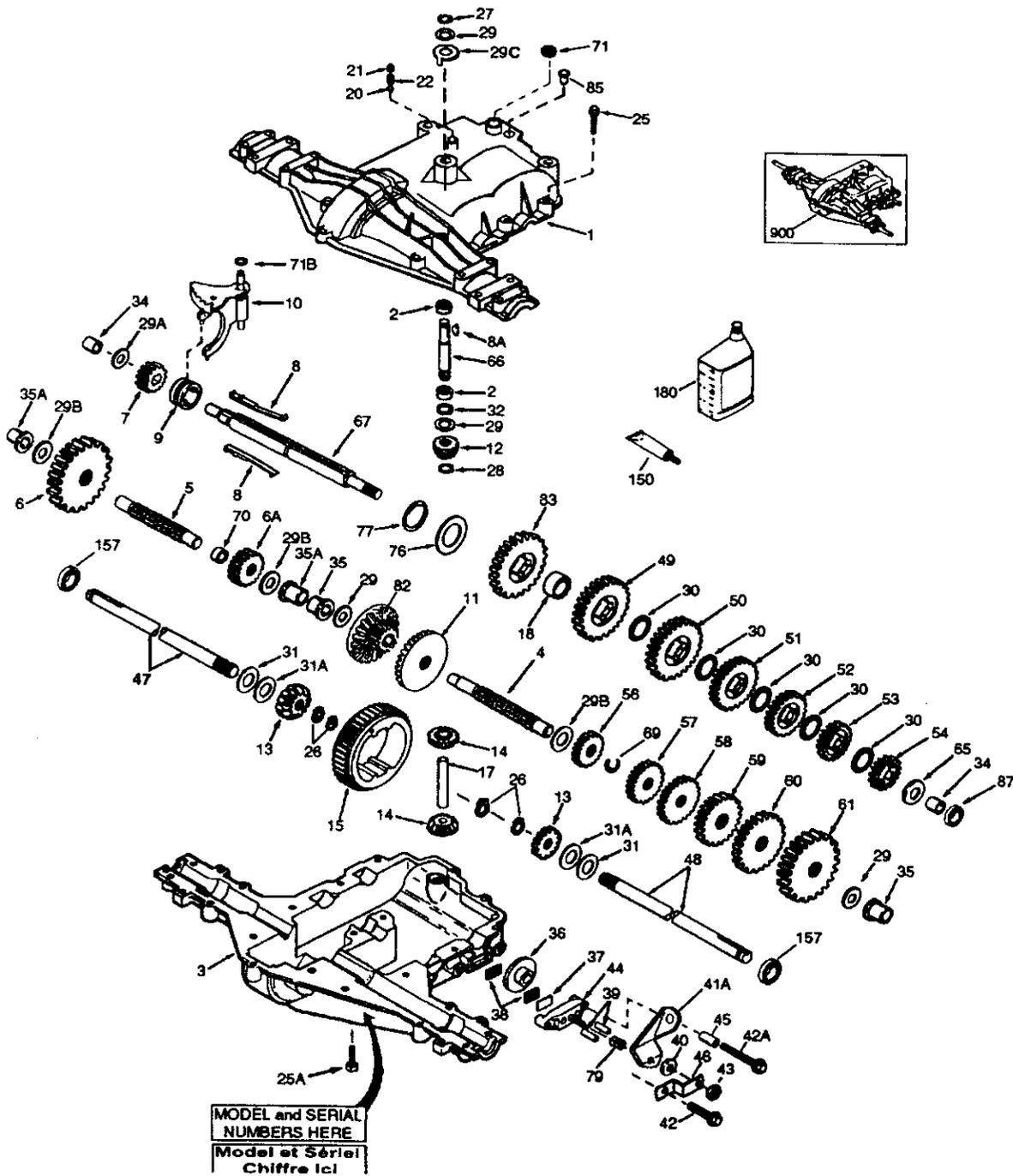
## MOWER DECK

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 165892	Mower Deck Assembly, 42"	46 137729	Screw, Thd. Roll 1/4-20 x 5/8
2 STD533107	Bolt	48 133944	Washer, Hardened
3 138017	Bracket Assembly, Sway Bar, Front	49 155066	Roller Assembly, Cam Follower
4 165460	Bracket Sway Bar 38/42" Deck	50 131340	Bolt, Shoulder #10-24 Grade 5
5 STD624008	Retainer Spring	51 STD541410	Locknut
6 130832	Arm, Suspension, Rear	52 139888	Bolt, Shoulder 5/16-18 UNC
8 850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	53 131845	Arm Assembly, Pad, Brake
9 STD551137	Washer, Lock	54 133943	Washer, Hardened
10 140296	Washer, Hardened	55 155046	Arm, Idler
11 134149	Blade, Mulching	56 165723	Spacer, Retainer
12 129895	Bearing, Ball	59 141043	Guard, TUV Idler
13 137645	Shaft Assembly, Mandrel, Vented (Includes Key Number 12)	67 149846	Knob Custom Oval
		68 144959	V-Belt
14 128774	Housing, Mandrel, Vented	128 153390	Washer Felt
15 110485X	Bearing, Ball, Mandrel	142 165890	Arm Spring Brake Mower
16 140329	Stripper, Vented Mower Deck	143 157109	Bracket Arm Idler 42"
18 72140505	Bolt, Carriage 5/16-18 x 5/8	144 158634	Keeper Belt 42" Clutch Cable
19 132827	Bolt, Shoulder	145 165888	Pulley Idler Flat
20 159770	Baffle, Vortex	146 165891	Bolt Carriage Idler
21 STD541431	Nut Crownlock 5/16-18 UNC	147 131335	Spring Extension
22 134753	Stiffener Bracket	148 169022	Spring Return Idler
23 131267	Bracket, Deflector	149 165898	Retainer Spring Yellow Zinc
24 105304X	Cap, Sleeve	150 19091216	Washer 9/32 x 3/4 x 16 Ga.
25 123713X	Spring, Torsion, Deflector	151 169670	Bracket Clutch
26 110452X	Nut, Push	152 169676	Cable Clutch 42 In
27 130968X428	Shield, Deflector	153 169674	Washer Flat 3/8" Type B
28 19111016	Washer 11/32 x 5/8 x 16 Ga.	154 169675	Spring Retainer
29 131491	Rod, Hinge	155 169671	Spring Retention Lever
30 157722	Screw Thdrol Washer Head	156 169672	Spacer
31 129963	Washer, Spacer	157 169669	Rod Clutch
32 153535	Pulley, Mandrel	158 17720410	Screw Hex Thd Cut 1/4-20 x 5/8
33 137266	Nut, Toplock, Flanged	159 72140614	Bolt Rdhd Sqn 3/8-16unc x 1-3/4
34 STD533717	Bolt	-- 130794	Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)
35 133835	Fastner, Christmas Tree	-- 169583	Mower Deck, Complete (Standard Deck, Order Separately Mulcher Plate and Gauge Wheel Components, Key Nos. 101-106 and 111-121)
36 131494	Pulley, Idler, Flat		
37 STD551037	Washer 13/32 x 13/16 x 16 Gauge		
40 STD541437	Nut Crownlock 3/8-16 UNC		
44 140088	Guard, Mandrel, L.H.		
45 STD624003	Retainer		

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

# TRACTOR--MODEL NUMBER 917.270534

## PEERLESS TRANSAXLE--MODEL NUMBER 206-545C



# TRACTOR -- MODEL NUMBER 917.270534

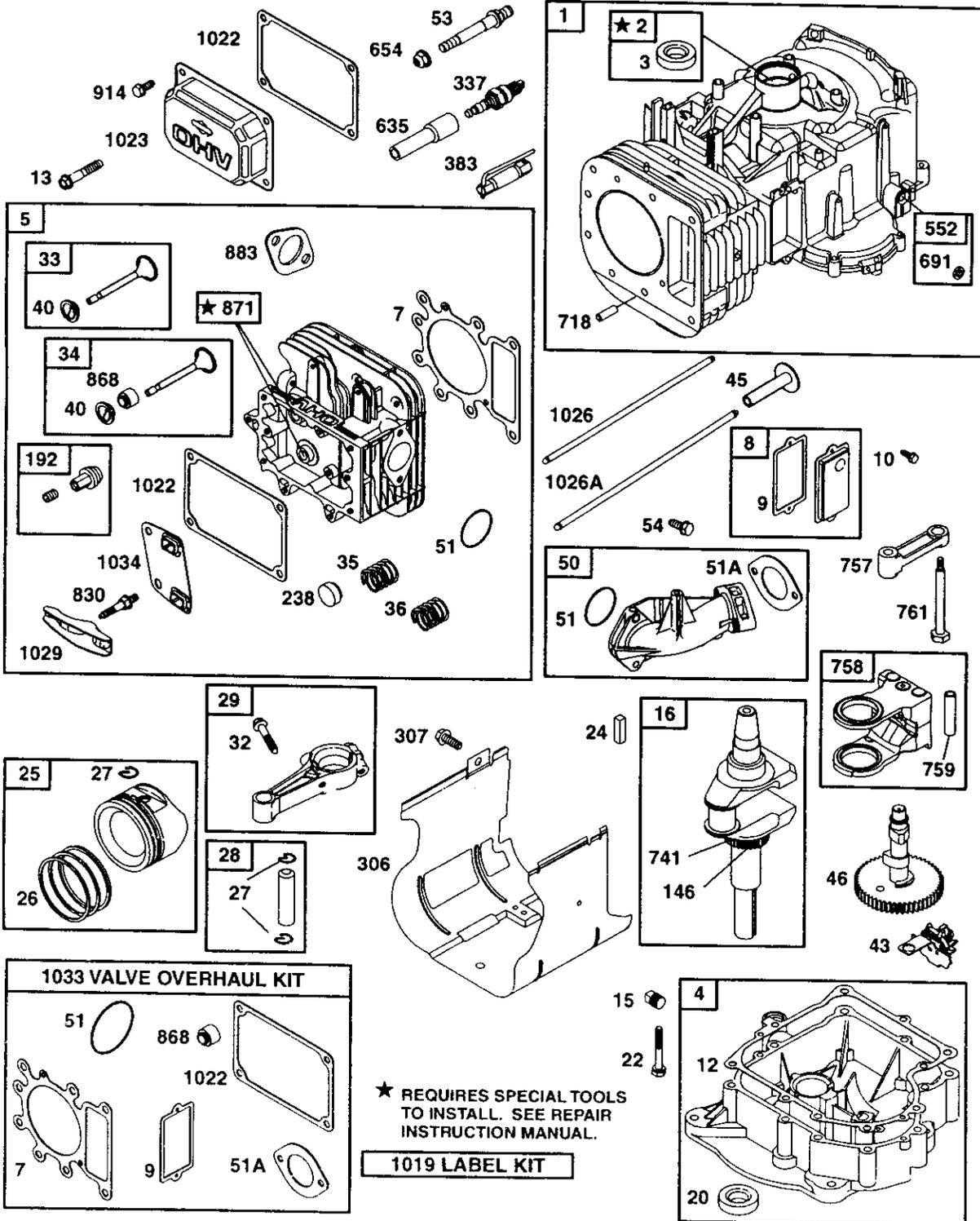
## PEERLESS TRANSAXLE--MODEL NUMBER 206-545C

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

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

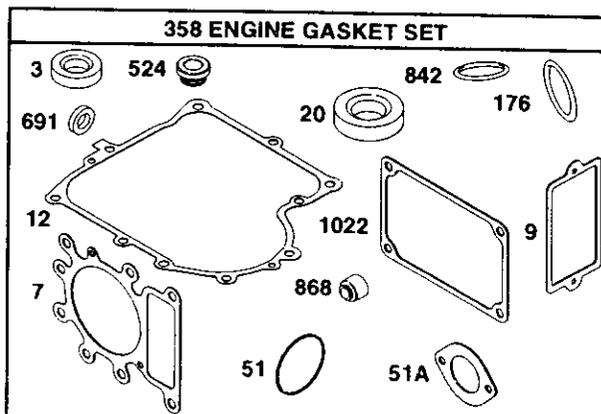
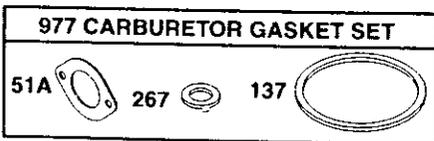
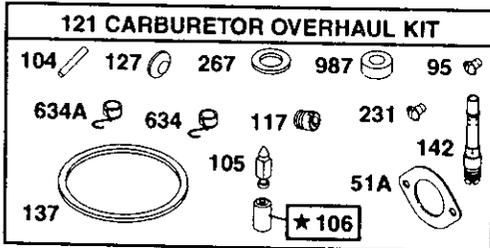
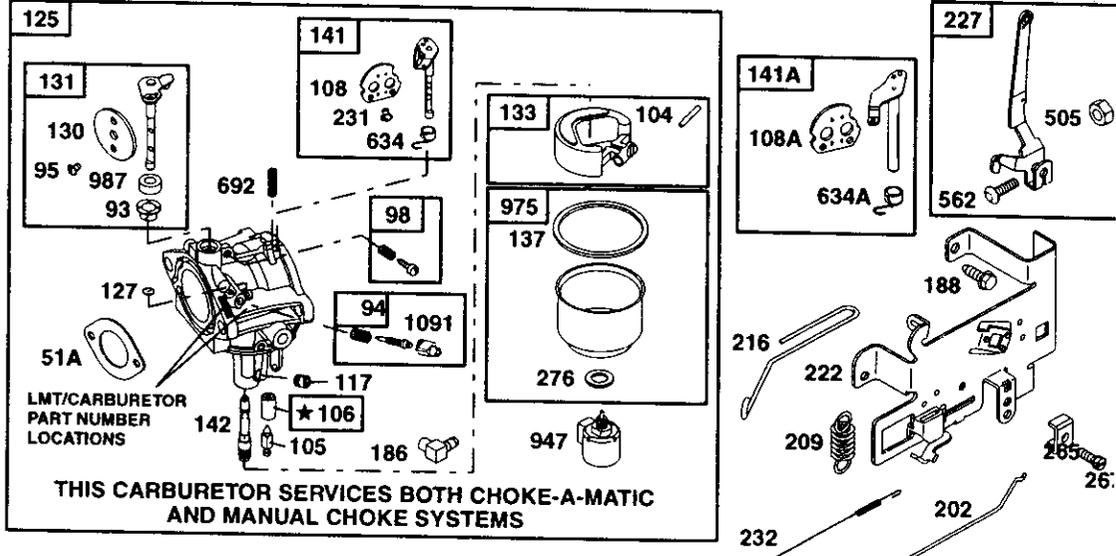
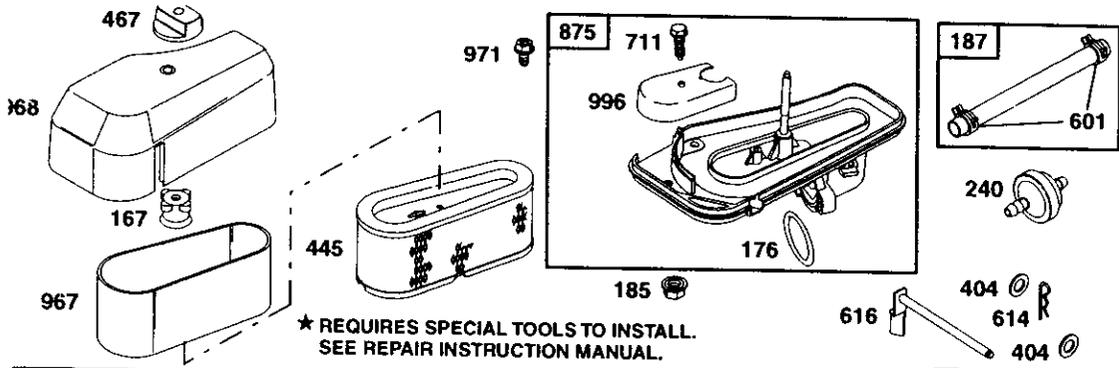
# TRACTOR -- MODEL NUMBER 917.270534

BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E3



# TRACTOR--MODEL NUMBER 917.270534

BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E3





# TRACTOR-- MODEL NUMBER 917.270534

## BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E3

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	496412	Cylinder Assembly	78	94896	Screw (Flywheel Guard)
2	399265	Bushing/Seal Kit	93	690602	Bushing-Throttle Shaft
3	391086	★ Seal-Oil	94	498030	Idle Mixture Kit
4	494238	Sump-Engine	95	94098	● Screw (Throttle Valve)
5	691165	Head-Cylinder	98	495800	Kit-Idle Speed
7	273280	★+ Gasket-Cylinder Head	104	690525	● Pin-Float Hinge
8	495735	Breather Assembly	105	231855	● Valve-Float Needle
9	27803	★ Gasket-Breather	106	231854	● Seat-Inlet
10	691666	Screw (Breather Assembly)	108	690464	Valve-Choke (Manual Choke)
12	271916	★ Gasket-Crankcase (.015 Thick, Std.)	108A	692344	Valve-Choke (Choke A Matic)
	271997	★ Gasket-Crankcase (.005 Thick)	117	692408	● Jet- Main (Standard)
	271996	★ Gasket-Crankcase (.009 Thick)		692411	Jet- Main (High Altitude)
13	690360	Screw (Cylinder Head, 3-9/16")	121	690191	Carburetor Overhaul Kit
15	94239	Plug-Oil Drain	125	690194	Carburetor
16	690136	Crankshaft	127	695005	● Plug-Welch
20	291675	★ Seal-Oil	130	224539	Valve-Throttle
22	692125	Screw (Crankcase Cover)	131	494379	Throttle Shaft Kit
23	693557	Flywheel (Steel Ring Gear)	133	494381	Float-Carburetor
23A	492326	Flywheel (Plastic Ring Gear)	137	281165	●◆ Gasket-Float Bowl
			141	495097	Choke Shaft Kit (Manual Choke)
24	222698	Key-Flywheel	141A	495931	Choke Shaft Kit (Choke A Matic)
25	499284	Piston Assembly (Std.)	142	692412	● Nozzle-Carburetor
	499288	Piston Assembly (.010 O.S.)	146	94196	Key-Timing
	499292	Piston Assembly (.020 O.S.)	165	693148	Nut (Ring Gear)
	499296	Piston Assembly (.030 O.S.)	167	281051	Nut (Air Cleaner)
26	495854	Ring Set, Piston (Std.)	176	281106	★ O-Ring Seal (Air Cleaner Base)
	495852	Ring Set, (.010 O.S.)	185	94010	Nut (Air Cleaner Base)
	495851	Ring Set, (.020 O.S.)	186	493496	Connector-Hose
	495855	Ring Set, (.030 O.S.)	187	492790	Line-Fuel (Cut to Required Length)
27	691299	Lock-Piston Pin	188	94929	Screw (Control Bracket)
28	498319	Piston Pin (Std.)	192	492160	Adjuster- Rocker Arm
	498320	Piston Pin (.005 O.S.)	202	262767	Mechanical Governor Link
29	692419	Rod-Connecting (Std.)	209	260695	Spring- Governor
	692420	Rod-Connecting (.020 U.S.)	216	262766	Link-Choke
32	692852	Screw (Connecting Rod)	222	694042	Bracket- Control
33	495856	Valve-Exhaust	227	691374	Governor Control Lever
34	495857	Valve- Intake	231	94098	● Screw (Choke Valve)
35	691279	Spring- Valve (Intake)	232	262785	Spring-Link
36	691279	Spring- Valve (Exhaust)	238	262836	Cap- Valve
37	690456	Guard-Flywheel	240	394358	Filter-Fuel
40	224641	Retainer- Valve	265	221535	Clamp-Casing
43	490815	Governor-Oil Slinger	267	94906	Screw (Casing Clamp)
45	690564	Tappet- Valve	276	281164	●◆ Sealing Washer
46	692421	Camshaft	287	94903	Screw (Dipstick Tube)
48	496050	Short Block	304	691399	Housing-Blower
50	690193	Manifold- Intake	305	690960	Screw (Blower Housing)
51	272465	★+ Gasket-Intake	305A	692127	Screw (Blower Housing)
51A	273650	Gasket-Intake	306	690499	Shield- Cylinder
53	690227	Stud (Carburetor)	RPM Settings:		Low Speed: 1900-2100
54	691148	Screw (Intake Manifold)	★	Included in Gasket Set, Ref Number 358.	
73	494439	Screen- Rotating	●	Included in Carburetor Kit, Ref Number 121.	
74	691057	Screw (Rotating Screen)	◆	Included in Carburetor Gasket Set, Ref Number 977.	
75	225136	Washer (Flywheel)	+	Included in Valve Overhaul Kit, Ref Number 1033.	

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

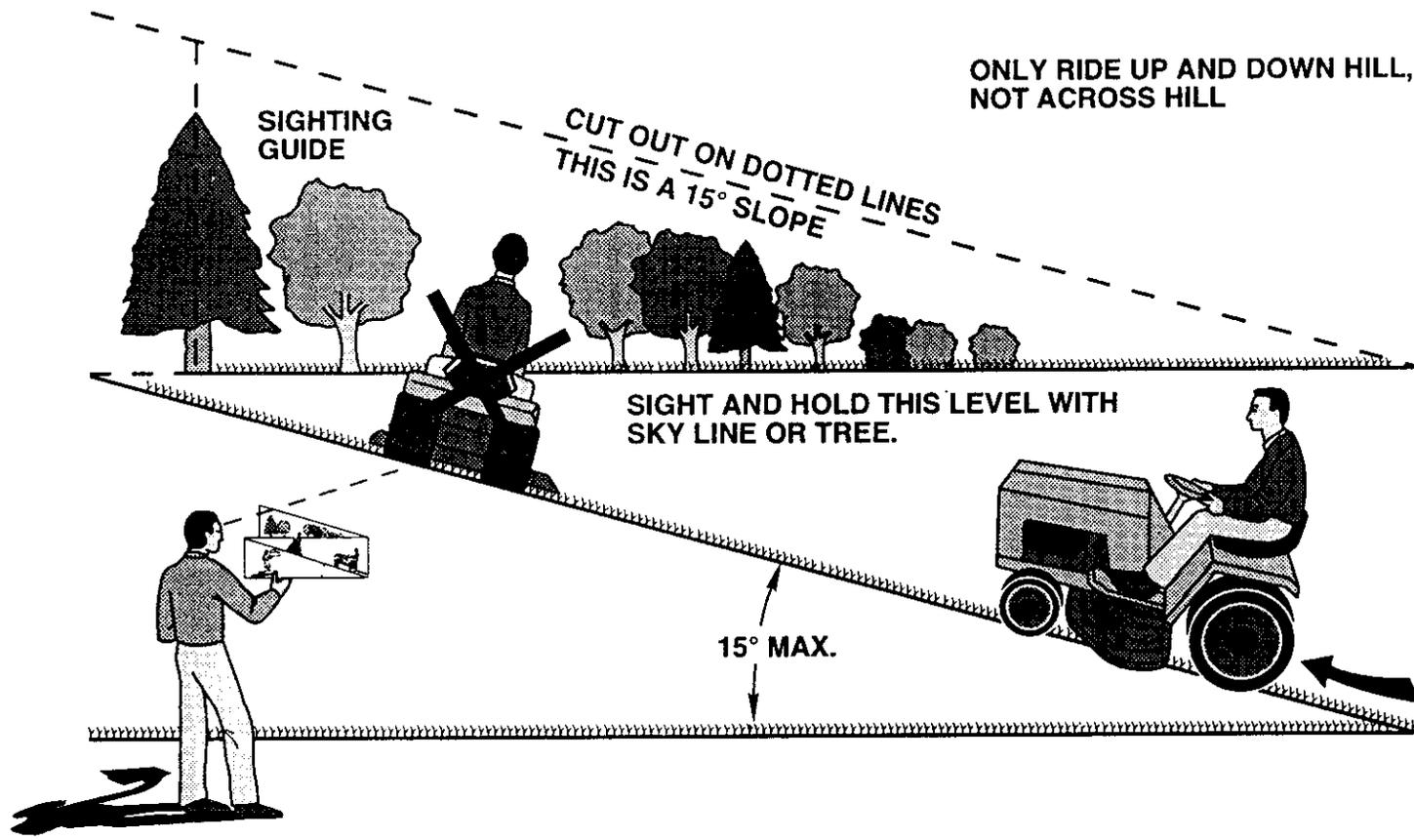
# TRACTOR--MODEL NUMBER 917.270534

## BRIGGS & STRATTON ENGINE-MODEL NUMBER 28U707, TYPE NUMBER 1174-E3

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
307	94930	Screw (Cylinder Shield)	783693713		Gear-Pinion (For Steel Ring Gear Only)
309	693551	Motor-Starter (For Steel Ring Gear Only)	783A	693059	Gear-Pinion (For Aluminum Ring Gear Only)
	497595	Motor-Starter (For Plastic Ring Gear Only)	783B	693058	Gear-Pinion (For Plastic Ring Gear Only)
310	690323	Screw (Starter Motor)	789	695050	Harness-Wiring
311	497608	Brush Set	801	691429	Cap-Drive
333	495859	Armature- Magneto	802	497607	Cap-End
334	94731	Screw (Armature)	803	691427	Housing-Starter
337	491055	Spark Plug	830	691095	Stud (Rocker Arm)
358	690189	Gasket Set	842	270920	★ Dipstick/Tube Seal
363	19203	Flywheel Puller	847	496415	Dipstick/Tube Assembly
383	89838	Wrench-Spark Plug	851	692424	Spark Plug Terminal
404	94927	Washer (Governor Crank)	868	690968	★+ Seal- Valve
445	496894	Filter- A/C Element	871	690969	Bushing-Guide
462	225137	Washer (Starter Cable)	875	693686	Base- Air Cleaner
467	493903	Knob-Air Cleaner	877	393456	Wire-Alternator
474	393474	Alternator	883	272293	Gasket- Exhaust
503	691532	Strap-Starter	914	690960	Screw (Rocker Cover)
505	691251	Nut (Governor Control Lever)	934	94627	Screw (Fan Retainer)
510	693699	Drive-Starter (Use With Steel Ring Gear Only)	947	497672	Solenoid-Fuel
			967	272403	Filter-Pre Cleaner
510A	497606	Drive-Starter (Use With Aluminum & Plastic Ring Gear Only)	968	691332	Cover- Air Cleaner
			971	692129	Screw (Air Cleaner Base)
			975	495933	Bowl-Float
513	398003	Clutch-Drive	977	690192	Gasket Set-Carburetor
523	495230	Dipstick	987	691326	● Seal-Throttle Shaft
524	281370	★ Dipstick Tube Seal	996	690678	Carburetor Shield
525	691398	Dipstick Tube	1005	280687	Fan-Flywheel
544	497603	Armature-Starter	1006	690452	Retainer-Fan
552	491986	Bushing-Gov. Lever	1019	496758	Label Kit
562	691119	Bolt (Governor Control Lever)	1022	272475	★+ Gasket-Rocker Cover
			1023	691192	Cover-Rocker Arm
579	92278	Nut (Starter Cable)	1026	494432	Rod-Push (Intake)
601	93053	Clamp-Hose	1026A	495136	Rod-Push (Exhaust)
614	93306	Pin-Cotter	1029	224554	Arm-Rocker
616	495157	Crank-Governor	1033	690190	Valve Overhaul Kit
634	690801	● Seal-Spring Assembly (Manual Choke)	1034	690822	Guide-Push Rod
634A	690802	● Seal-Spring Assembly (Choke A Matic)	1036	694997	Label-Emissions
			1044	94673	Screw (Flywheel)
635	280872	Boot, Spark Plug	1051	263080	Ring-Retainer
654	94010	Nut (Carburetor)	1090	497605	Retainer-Brush
691	491323	★ Governor Shaft Seal	1091	691333	Cap-Limiter
692	690572	Spring-Detent	1119	93621	Screw (Alternator)
695	693109	Screw (Ring Gear)	- -	311707-0026-E1	Replacement Engine
697	690372	Screw (Starter Motor)			RPM Settings: Low Speed: 1900-2100 High Speed: 3000-3200
711	693675	Screw (Carburetor Shield)	★		Included in Gasket Set, Ref Number 358.
718	230192	Locating Pin	●		Included in Carburetor Kit, Ref Number 121.
726	399676	Gear Ring (Aluminum-Services Plastic Ring Gear Only)	◆		Included in Carburetor Gasket Set, Ref Number 977.
727	490324	Cover, Starter Drive	+		Included in Value Overhaul Kit, Ref Number 1033.
729	691335	Clip- Wire			
729A	691224	Clip- Wire			
732	94903	Screw(Starter Drive Cover)			
741	691284	Gear-Timing			
757	213998	Link-Counterweight			
758	692423	Counterweight			
759	691239	Pin-Counterweight			
761	691096	Screw (Counterweight)			

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

# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

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