## Owner's Manual

# **CRAFTSMAN®**

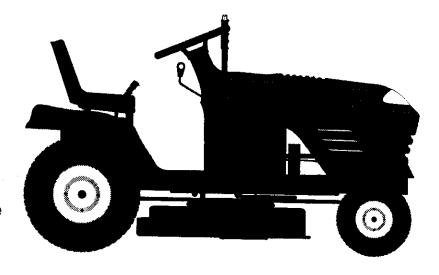
19.5 HP ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

Model No. 917.270912





- Assembly
- Operation
- Maintenance
- Repair Parts





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

## **CAUTION:**

Read and follow all Safety Rules and Instructions before operating this equipment. For answers to your questions about this product, Call:

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179 Visit our Craftsman website: www.sears.com/craftsman

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## WARRANTY

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

This Warranty does not cover:

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

## LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States. To locate the nearest sears service center or to schedule in-home warranty service, simply contact sears at 1-800-4-my-home

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

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

## SAFETY RULES

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

#### **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 mowerrelated injuries. These operators should
  evaluate their ability to operate the
  riding mower safely enough to protect
  themselves and others from serious
  injury.

### SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

#### CHILDREN

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

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.

## SAFETY RULES

- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

#### SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.

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











- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.

- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- 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!!! BECOMEAWARE!!! YOUR SAFETY IS INVOLVED.

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

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

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

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: REGULAR  OIL TYPE (API-SF/SG/SH): SAE 30 (ABOVE 32°F)  OIL CAPACITY: SPARK PLUG: GAP: .030") VALVE INTAKE: .004"006" CLEARANCE: EXHAUST: .007"009"  GROUND SPEED FORWARD: (MPH):  1st 1.2 2ND 1.5 3RD 2.3 4TH 3.5 5TH 4.8 6TH 5.4 REVERSE: 1.5  TIRE PRESSURE: FRONT: 14 PSI REAR: 10 PSI  CHARGING 3 AMPS BATTERY SYSTEM: 5 AMPS  HEADLIGHTS  BATTERY:  AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R  BLADE BOLT 27-35 FT. LBS. TORQUE:	PRODUCT SPEC	IFICATIONS
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BLADE BOLT 27-35 FT, LBS.		
	BLADE BOLT TORQUE:	

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

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

### REPAIR AGREEMENT

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

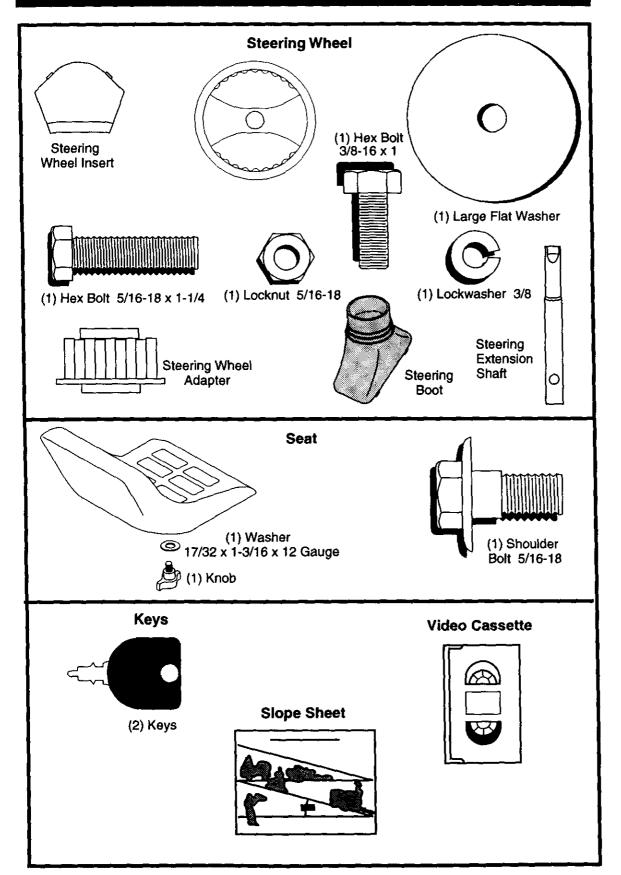
## **CUSTOMER RESPONSIBILITIES**

- · 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.

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

5 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
- (2) 1/2" wrench
- (1) Utility knife
- (1) Pliers
- (1) 3/4" socket with drive ratchet
- (1) Tire pressure gauge

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

# TO REMOVE TRACTOR FROM CARTON

### **UNPACK CARTON**

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

# BEFORE REMOVING TRACTOR FROM SKID

## ATTACH STEERING WHEEL

# ASSEMBLE EXTENSION SHAFT AND BOOT

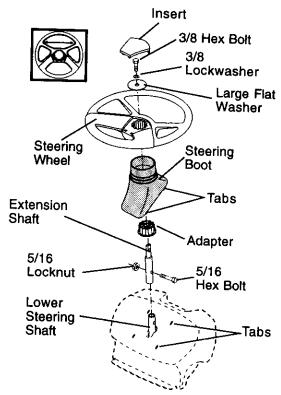
- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.
- Place tabs of steering boot over tab slots in dash and push down to secure.

### INSTALL STEERING WHEEL

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

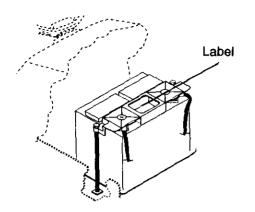
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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



# HOW TO SET UP YOUR TRACTOR CONNECT BATTERY

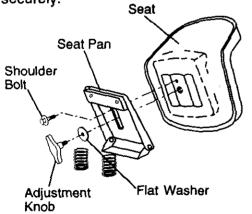
- Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTENANCE section of this manual for charging instructions).



#### **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 carboard 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.

#### TO DRIVE TRACTOR OFF SKID

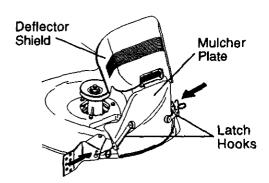
WARNING: Before starting, read, understand and follow all instructions in the Operation section of this manual. Be sure tractor is in a well-ventilated area. Be sure the area in front of tractor is clear of other people and objects.

- 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.

# INSTALL MULCHER PLATE (If previously removed)

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

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



## TO CONVERT TO BAGGING OR DISCHARGING

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

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

#### **CHECK TIRE PRESSURE**

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

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

#### **CHECK DECK LEVELNESS**

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

## CHECK FOR PROPER POSITION OF ALL BELTS

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

#### **CHECK BRAKE SYSTEM**

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

#### *✓* CHECKLIST

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

Please review the following checklist:

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

While learning how to use your tractor, pay 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.





**ATTACHMENT CLUTCH ENGAGED** 



**REVERSE** 





NEUTRAL



HIGH



LOW



PARKING BRAKE



**IGNITION** 



**ATTACHMENT CLUTCH DISENGAGED** 











**KEEP AREA CLEAR** 

SLOPE HAZARDS (SEE SAFETY RULES SECTION)







**FREE WHEEL** (Automatic Models only)

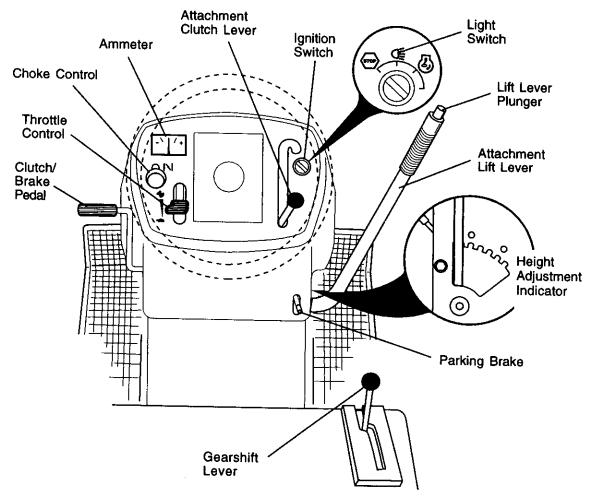


DANGER, KEEP HANDS AND FEET AWAY

#### **KNOW YOUR TRACTOR**

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

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



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

ATTACHMENT CLUTCH LEVER: Used to engage the mower blades, or other attachments mounted to your tractor. LIGHT SWITCH: Turns the headlights on and off.

THROTTLE CONTROL: Used for starting and controlling engine speed.

CHOKE CONTROL: Used when starting a cold engine.

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

PARKING BRAKE: Locks clutch/brake pedal into the brake position.

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

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

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

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

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

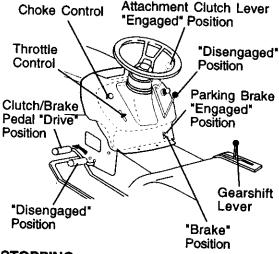


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

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

#### **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.

#### CHOKE CONTROL

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

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

## TO MOVE FORWARD AND BACKWARD

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.

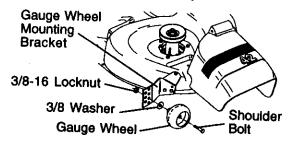
The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- 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 ADJUST GAUGE WHEELS

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

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

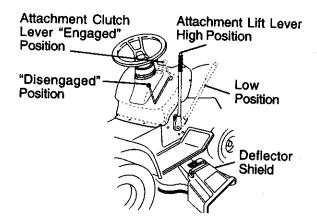


### **TO OPERATE MOWER**

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

- · Select desired height of cut.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.

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



#### TO OPERATE ON HILLS

ACAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. A slope guide at the back of your manual is provided for your use.

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

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

### TO START ENGINE

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

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISEN-GAGED" position.
- Move throttle control to fast position
- Pull choke control out for a cold engine start attempt. For a warm engine start attempt the choke control may not be needed.

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

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

# WARM WEATHER STARTING (50° F AND ABOVE)

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

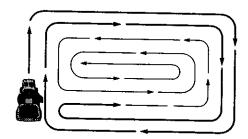
# COLD WEATHER STARTING (50° F AND BELOW)

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

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

#### **MOWING TIPS**

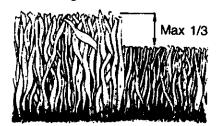
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. 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 the best cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.



#### **MULCHING MOWING TIPS**

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

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



## **MAINTENANCE**

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	Check Brake Operation	7	V						ſ				<u>;                                    </u>
1	Check Tire Pressure	V	1	T				<b>†</b>	_		<del>                                     </del>		
т	Check Operator Presence and Interlock Systems	V											
ļŖ	Check for Loose Fasteners	1	1			1/7		1		-			
Ιĉ	Sharpen/Replace Mower Blades			V.	_	<u> </u>		T*					
Ιĭ	Lubrication Chart			1				1	1		1		
Ŏ	Check Battery Level			1/6				<u> </u>			_		
R	Clean Battery and Terminals			1				1	<u> </u>				
	Check Transaxle Cooling			1				1					
	Adjust Blade Belt(s) Tension			1		1/5							$\Box$
	Adjust Motion Drive Belt(s) Tension					1/5							
	Check Engine Oil Level	V	1										
	Change Engine Oil			1,2,3	-			1					
Е	Clean Air Filter			1/2				<u> </u>					
N	Clean Air Screen			1/2		$\vdash$		<del>                                     </del>	<b></b>	-	<u> </u>		
Ģ	Inspect Muffler/Spark Arrester				1			1				ļ — <del> </del>	
l i	Replace Oil Filter (If equipped)		· · ·			1,2		<u> </u>			-	<del>  </del>	
ΙË	Clean Engine Cooling Fins					1	l			<del></del>			
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	Replace Air Filter Paper Cartridge					1/2	<b> </b>	$\vdash$		$\vdash$	$\vdash \dashv$	<del>   </del>	
	Replace Fuel Filter					•	1	$\vdash$	<b>-</b>	$\vdash$	l —	-	

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

- 5 If equipped with adjustable system.
- 6 Not required if equipped with maintenance-free battery
- Tighten front axte pivot bolt to 35 ft.-ibe, maximum.
   Do not overtighten.

#### LUi

## **GENERAL RECOMMENDATIONS**

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

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

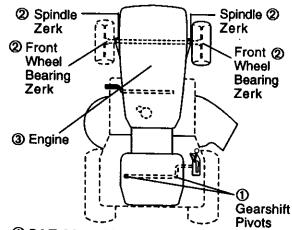
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

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

#### **BEFORE EACH USE**

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

#### **LUBRICATION CHART**



- ① SAE 30 or 10w30 motor oil
- @ General Purpose Grease
- ③ Refer to Maintenance "ENGINE" Section

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

#### TRACTOR

Always observe safety rules when performing any maintenance.

#### **BRAKE OPERATION**

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

#### **TIRES**

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

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

### **OPERATOR PRESENCE SYSTEM**

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

- The engine should not start unless the 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**

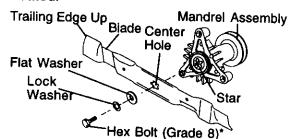
- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.

 Install new or resharpened blade with trailing edge up towards deck as shown.

**IMPORTANT:** To ensure proper assembly, center hole isn 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

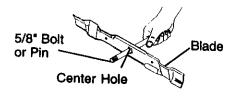
**NOTE:** We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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 it is 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 onto 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.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

#### V-BELTS

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

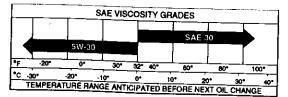
#### TRANSAXLE COOLING

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

#### **ENGINE**

#### LUBRICATION

Only use high quality detergent oil rated with API service classification SF, SG or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.



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

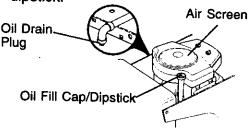
Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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

### TO CHANGE ENGINE OIL

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

- · Be sure tractor is on level surface.
- · Oil will drain more freely when warm.
- · Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "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.

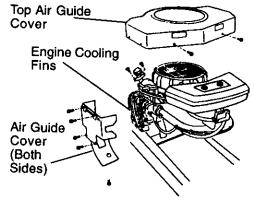


#### **CLEAN AIR SCREEN**

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. Air guide covers must be removed. Remove side panels and hood (See "TO REMOVE HOOD AND GRILL ASSEMBLY" in the Service and Adjustments section of this manual).



#### **AIR FILTER**

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first.

Service air cleaner more often under dusty conditions.

Remove knob(s) and cover.

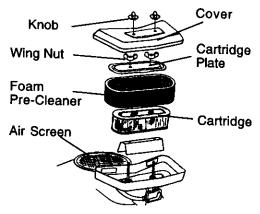
## TO SERVICE PRE-CLEANER

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

### TO SERVICE CARTRIDGE

- Remove wing nuts and cartridge plate.
- Carefully remove cartridge to prevent debris from entering carburetor.
- Clean cartridge by tapping gently on flat surface. If very dirty or damaged, replace cartridge.
- Reinstall cartridge plate, wing nuts, precleaner, cover and secure with knob(s).

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



#### MUFFLER

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

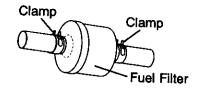
#### **SPARK PLUGS**

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

### IN-LINE FUEL FILTER

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

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



#### **CLEANING**

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

## SERVICE AND ADJUSTMENTS

**ACAUTION:** Before performing any service or adjustments:

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

#### TRACTOR

### TO REMOVE MOWER

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

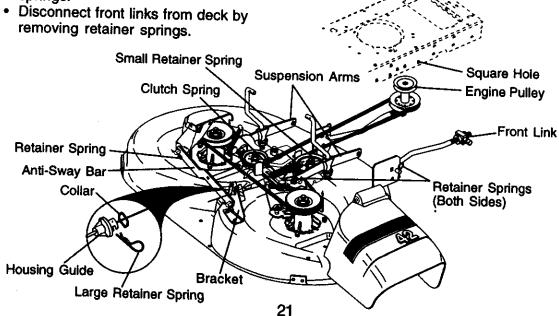
- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- · Remove small retainer spring, and lift clutch spring off pulley bolt.
- · Remove large retainer spring, slide collar off and push housing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

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

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

### TO INSTALL MOWER

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



#### TO LEVEL MOWER HOUSING

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

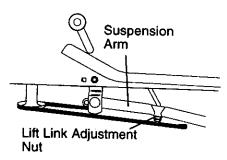
#### SIDE-TO-SIDE ADJUSTMENT

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

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

· Recheck measurements after adjusting.





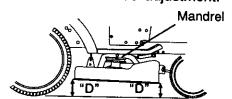
### FRONT-TO-BACK ADJUSTMENT

**IMPORTANT:** Deck must be level side-toside. 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.

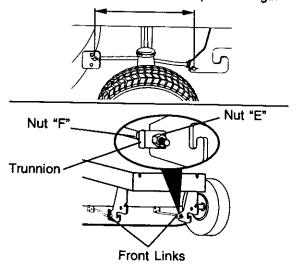
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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 (See Illustration Next Page)

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

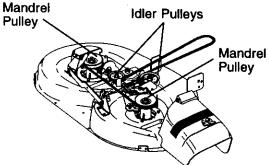
### **BELT REMOVAL -**

- 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 -**

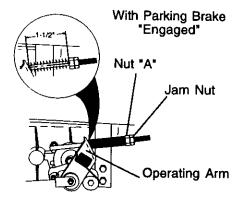
- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.



#### 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.

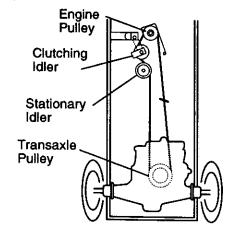
- Depress clutch/brake pedai and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping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



#### TO REPLACE MOTION DRIVE BELT

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

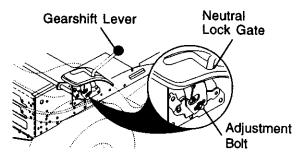
- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor.
   Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from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



## TRANSAXLE GEAR SHIFT LEVER ADJUSTMENT

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

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



## TO ADJUST STEERING WHEEL ALIGNMENT

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

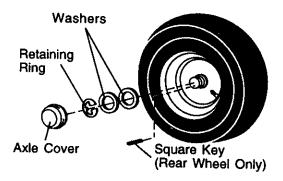
### FRONT WHEEL TOE-IN/CAMBER

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

### TO REMOVE WHEEL FOR REPAIRS

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

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



## TO START ENGINE WITH A WEAK BATTERY

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

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

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

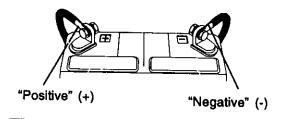
**IMPORTANT:** Your tractor Is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

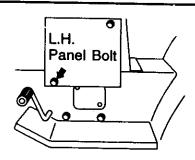
#### TO ATTACH JUMPER CABLES -

- 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.



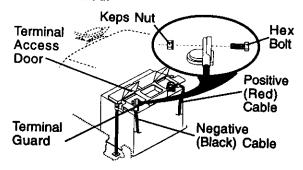


## **REPLACING BATTERY**

ACAUTION: 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 hood to raised position.
- · Remove terminal guard.
- Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- Reinstall terminal guard.
- First connect RED battery cable to positive (+) battery terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut.
   Tighten securely.
- Close terminal access doors.
- · Close hood.



## 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.

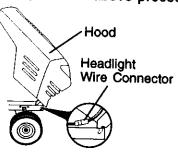
 Check wiring. See electrical wiring diagram in the Repair Parts section.

#### 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 procedures.



#### **ENGINE**

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any nonroad 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:

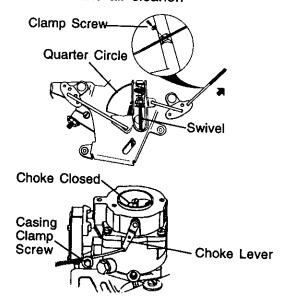
- With engine not running, move throttle control lever to fast position.
- Check that swivel is against side of quarter circle. If it is not, loosen cable clamp screw and pull cable back until swivel is against quarter circle. Tighten cable clamp screw securely.

## TO ADJUST CHOKE CONTROL

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

 With engine not running, move choke control (located on dash panel) to full choke position.

- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (see "AIR FILTER" in the Maintenance section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- · Reassemble air cleaner.



#### TO ADJUST CARBURETOR

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 the mixture screw in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the mixture screw out (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

**IMPORTANT:** Damage to the needles and the seats in carburetor may result if screw is turned in too tight.

### PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable and choke are adjusted properly (see above).
- With engine off turn idle mixture screw in (clockwise) closing it finger tight and then turn out (counterclockwise) 1-1/4 to 1-1/2 turns.

### FINAL SETTING -

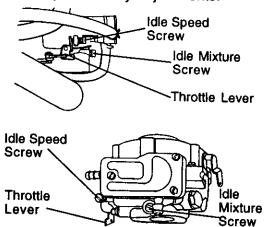
- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/ motion control lever in neutral (N) position.
- With throttle control lever in slow position, hold throttle lever against idle speed screw and adjust idle speed screw to obtain 1200 to 1400 RPM.
- While still holding throttle lever against idle speed screw, turn idle mixture screw in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn screw to a point midway between those two positions.
- Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM.
   Release throttle lever.

#### **ACCELERATION TEST -**

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle mixture screw 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.



### **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.

ACAUTION: 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. This will allow you to 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 TERMI-NALS" 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 it 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 cause your tractor to

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

## TROUBLESHOOTING CHART

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

## TROUBLESHOOTING CHART

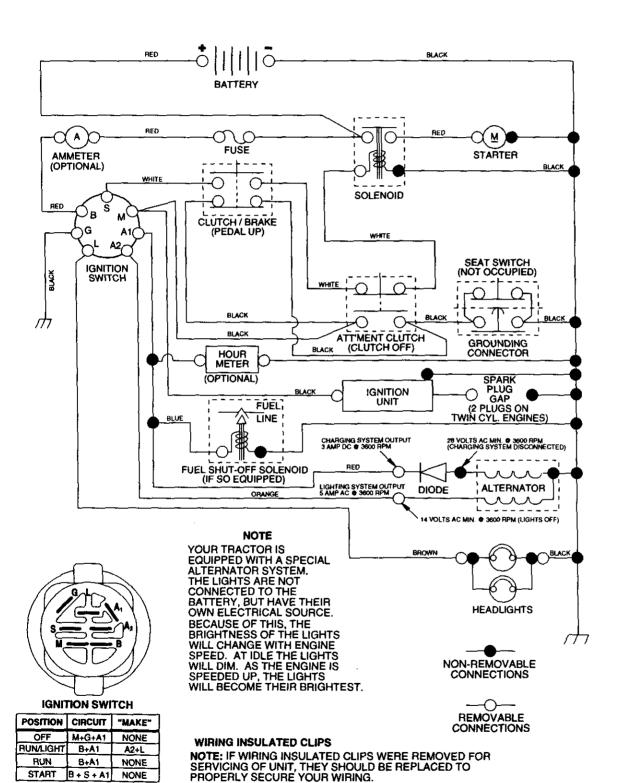
PROBLEM	CAUSE	CORRECTION
Engine clicks but will not start (cont'd)	<ul><li>Loose or damaged wiring.</li><li>Faulty solenoid or starter.</li></ul>	<ul><li>Check all wiring.</li><li>Check/replace solenoid or starter.</li></ul>
Loss of power	<ul> <li>Cutting too much grass/ too fast.</li> <li>Throttle in "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> <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 spark plug.</li> <li>Replace fuel filter.</li> <li>Drain fuel tank and refill with fresh gasoline.</li> <li>Drain fuel tank with fresh gasoline and replace fuel filter.</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 and Adjustments section.</li> <li>Contact an authorized service center.</li> </ul>
Excessive vibration	<ul> <li>Worn, bent or loose blade.</li> <li>Bent blade mandrel.</li> <li>Loose/damaged part(s).</li> </ul>	<ul> <li>Replace blade. Tighten blade bolt.</li> <li>Replace blade mandrel.</li> <li>Tighten loose part(s). Replace damaged parts.</li> </ul>
Engine continues to run when opera- tor leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center.
Poor cut - uneven	<ul> <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> </ul>	<ul> <li>Replace blade. Tighten blade bolt.</li> <li>Level mower deck.</li> <li>Clean underside of mower housing.</li> <li>Replace blade mandrel.</li> </ul>

## TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Poor cut - uneven (cont'd)	<ul> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ul>	Clean around mandrels to open vent holes.
Mower blades will not rotate	<ul> <li>Obstruction in clutch mechanism.</li> <li>Worn/damaged mower drive belt.</li> <li>Frozen idler pulley.</li> <li>Frozen blade mandrel.</li> </ul>	<ul> <li>Remove obstruction.</li> <li>Replace mower drive belt.</li> <li>Replace idler pulley.</li> <li>Replace blade mandrel.</li> </ul>
Poor grass dis- charge	<ul> <li>Engine speed too slow.</li> <li>Travel speed too fast.</li> <li>Wet grass.</li> <li>Mower deck not level.</li> <li>Low/uneven tire air pressure.</li> <li>Worn, bent or loose blade.</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.</li> <li>Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ul>	<ul> <li>Place throttle control in "FAST" position.</li> <li>Shift to slower speed.</li> <li>Allow grass to dry before mowing.</li> <li>Level mower deck.</li> <li>Check tires for proper air pressure.</li> <li>Replace/sharpen blade. Tighten blade bolt.</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 in this manual.</li> <li>Clean around mandrels to open vent holes.</li> </ul>
Headlight(s) not working (if so equipped)	<ul> <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> <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> <li>Bad battery cell(s).</li> <li>Poor cable connections.</li> <li>Faulty regulator (if so equipped).</li> <li>Faulty alternator.</li> </ul>	<ul> <li>Replace battery.</li> <li>Check/clean all connections.</li> <li>Replace regulator.</li> <li>Replace alternator.</li> </ul>
Engine "backfires" when turning en- gine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	Move throttle control to     "SLOW" position and allow     to idle for 30 seconds before     stopping engine.

#### TRACTOR - - MODEL NUMBER 917.270912

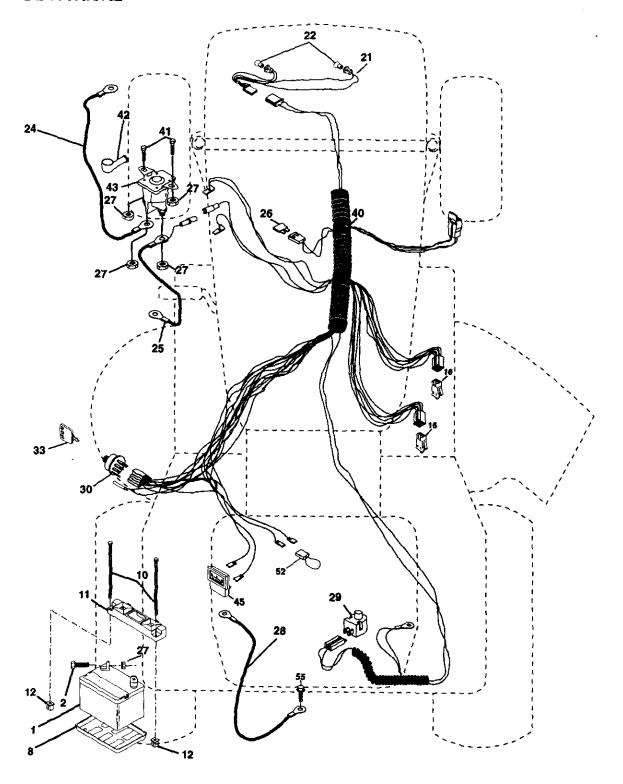
#### **SCHEMATIC**



## REPAIR PARTS

## TRACTOR -- MODEL NUMBER 917.270912

## **ELECTRICAL**



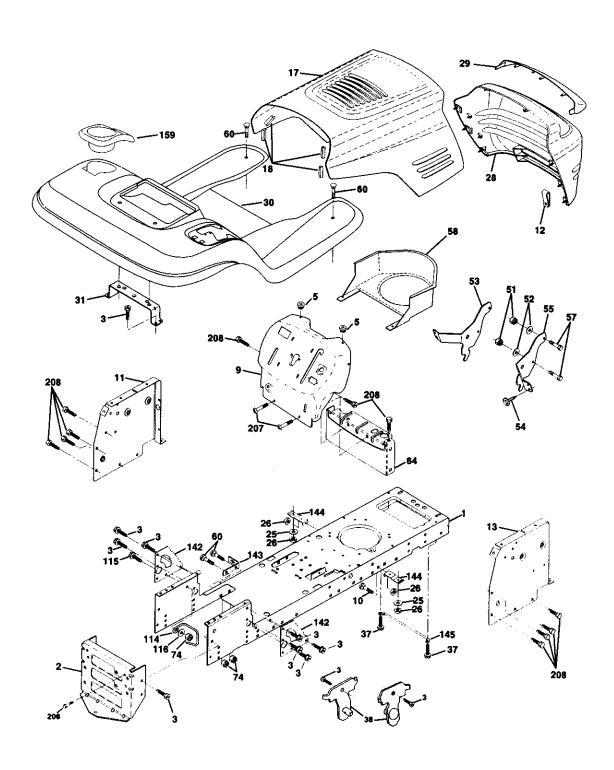
## TRACTOR-MODEL NUMBER 917.270912

## **ELECTRICAL**

	Y PART D. NO.	DESCRIPTION
		DESCRIPT (QI)
1	163465	Battery 12 VOLT 28 AMP
2		Bolt Hex Hd 1/4-20unc x 3/4
	7603J	Case Battery
	145211	Bolt, Btr Front 1/4-20 x 7-1/2
	150109	Holddown Battery Front Mount
	145769	Nut, Push Nylon Battery Front 1/4
	153664	Switch, Interlock Push-In
19		Washer Lock 1/4
21	166182	Hamess Light Socket (W/4152j)
22		Bulb Light #1156
	4799J	Cable Battery
	146148	Cable Battery
	166180	Fuse
	73510400	Nut Keps Hex 1/4-20 Unc
	145491	Cable Ground
	121305X	Switch Seat
30		Switch Ign
33		Key Molded Craftsman
	170217	Harness Ign
41	71110408	Bolt Blk. Fin Hex 1/4-20 Unc x 1/2
42	131563	CoverTerminal
	145673	Solenoid
45	121433X	Ammeter Rectangular 6 Amp
52	141940	Protection Wire Loop
55	17490508	Screw Thdrol 5/16-18 x 1/2

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

## TRACTOR -- MODEL NUMBER 917.270912 CHASSIS AND ENCLOSURES



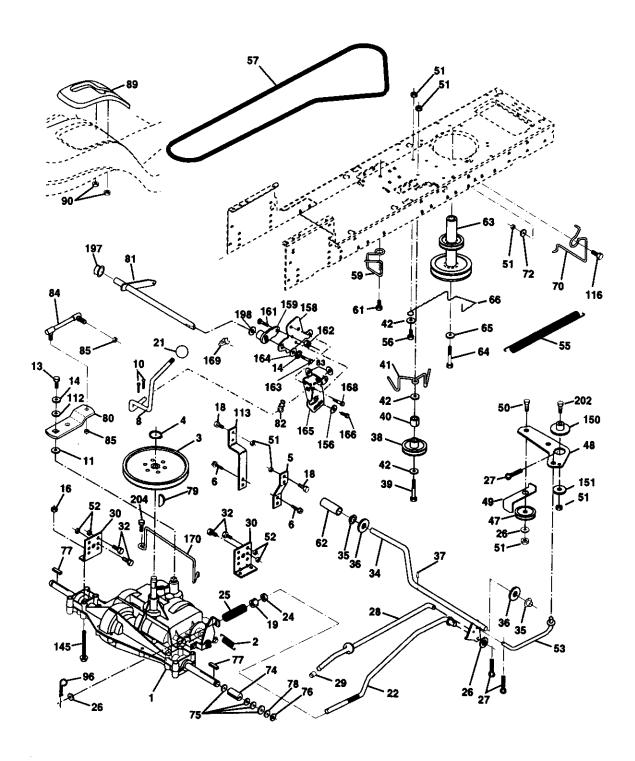
# TRACTOR -- MODEL NUMBER 917.270912 CHASSIS AND ENCLOSURES

KEY PART NO. NO.	DESCRIPTION
1 169830	Chassis Assembly
2 169061	Drawbar
3 17060612	Screw 3/8-16 x 3/4
5 155272	Bumper Hood/Dash
9 168337X013	Dash
10 STD533710	Bolt, Carriage 3/8-16 x 1
11 155927	Panel, Dash, L.H.
12 145660	Clip Tinnerman Gritle P/L
13 169117X010	Panel, Dash, R.H.
17 144983X558	Hood Assembly
18 126938X	BumperHood 2
20 156437	Plate Mtg Battery Fuel Tank
23 124028X	Bushing, Snap, Nylon, Fuel Line
25 19131312	Washer 13/32 x 13/16 x 12 Gauge
26 STD541437	Locknut, Hex, with Insert 3/8-16 Unc
28 166271X558	Grille w/Clips MS-558
29 155217X599 30 164918X558	Lens, Grille
30 164918X558 31 139976	Fend/Ftrest
37 17490508	Bracket, Fender Support
38 169834	Screw Thdrol 5/16-18 x 1/2
51 73800400	Pivot Bracket Assembly, L.H.
52 19091416	Nut Lock w/Insert 1/4-20 UNC Washer 9/32 x 7/8 x 16 Ga.
53 145201	Bracket Grille Pickoff LH
54 161464	Screw Hex Wshd 8-18 x 7/8
55 145202	Bracket Grille Pickoff RH
57 STD522507	Bolt, Fin Hex 1/4-20 UNC x .75
58 140547	Air Duct P/L B&S
60 STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64 154798	DashLowerSTLT
74 STD541437	Nut Crownlock 3/8-16 UNC
114 158112	Keeper Belt Rear Lh Stl
115 17060620 116 19131614	Screw 3/8-16 x 1-1/4
142 165867	Washer 13/32 x 1 x 14 Ga.
143 154966	Plate Reinforcement STLT
144 154207	Bracket Swaybar Chassis
145 156524	Bracket Pnt Footrest STLT Rod Pivot Chassis/Hood
159 155123X428	Cupholder
206 170165	Bolt Shoulder 5/16-18 TT
207 17670508	Screw Thdrol 5/16-18 x 1/2
208 17670608	Screw Thdrol 3/8-16 x 1/2
5479J	Plug Button

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

## TRACTOR--MODEL NUMBER 917.270912

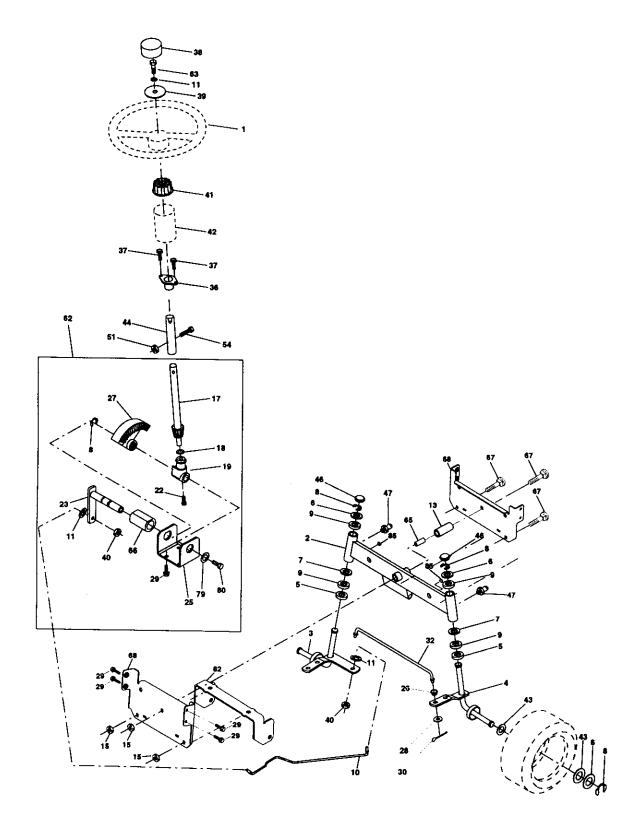
## **GROUND DRIVE**



#### **GROUND DRIVE**

	Y PART	DF243155444	KEY	PART	
	. NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1		Transaxle (See Breakdown)	62 8	1883R	Cover, Pedal
^	140000	Peerless 206-545C		40186	Pulley, Engine
2	146682	Spring, Return, Brake	64 7	1170764	Bolt, Hex 7/16-20 x 4 Grade 5
3	123666X	Pulley, Transaxle	65 S	STD551143	Washer
5	12000028	Ring, Retainer		54778	Keeper, Belt, Engine, Fool-Proof
5 6	121520X	Strap, Torque	70 1	34683	Guide, Mower Drive Belt, R.H.
8	17060512	Screw 5/16-18 x 3/4	72 1	9132012	Washer 13/32 x 1-1/4 x 12 Ga.
10	165866 CTD564040	Rod Shifter Fender STLT	74 1	37057	Spacer, Axle
11	STD561210 105701X	Pin, Cotter	75 1	21749X	Washer 25/32 x 1-1/4 x 16 Ga.
	74550412	Washer, Shift Plate	76 S	TD581075	E-Ring
14		Bolt 1/4-28 UNF W/Patch Gr. 8		23583X	Key, Square 2.0 x .1845/.1865
	10040400 STD523710	Washer Lock Hvy Helical	78 1:	21748X	Washer 25/32 x 1-5/8 x 16 Ga
10	STD523710 STD541437	Bolt Fin Hex 3/8-16UNC x 1 Gr 5	79 S	TD580025	Key Woodruff
21	106933X	Nut	80 1	45090	Arm, Shift
22	130804	Knob		65592	Shaft Asm Cross Tapered 650 20
24	STD541237	Rod, Brake	82 10	65711	Spring, Torsion
25	106888X	Nut		9171216	Washer 17/32 x 3/4 x 16 Ga.
26	STD551037	Spring, Brake Rod	84 1	66231	Link Transaxle
27	STD561210	Washer Pin	85 1	50360	Nut, Nylock
28	145204	* ***	89 1	58391X428	Console, Shift, STLT
	71673	Rod, Parking Brake	90 12	24346X	Nut, Self-Thding, Wsh Hd 1/4
	169592	Cap, Parking Brake		TD624003	Retainer Spring 1"
	127275X	Bracket, Transaxle	112 1	9091210	Washer 9/32 x 3/4 x 10 Gauge
	STD523107	Keeper, Belt, L.H. Bolt	113 12	27285X	Strap Torque 90 Degrees
	155071			2110610	Bolt Rdhd Sqneck 3/8-16 x 1.25
	120183X	Shaft Assembly, Foot Pedal		4490540	Bolt, Hex Fighd 5/16-18 Gr. 5
36	STD551062	Bearing, Nylon Washer	150 16		Bushing Bellcrank Grd. Drive
37		Roll Pin		9133210	Washer 13/32 x 2 x 10 Ga.
	131494		156 16		Washer Strted 5/16ID x 1.125
39	STD523727	Pulley, Idler, Flat Bolt	158 16		Bracket Shift Mount
40	4470J		159 16		Hub Tapered Flange Shift Lt
41	165838	Spacer, Split .395 x .59 Keeper, Belt, Idler	161 72	2140406	Bolt Rdhd Sank 1/4-20 x 3/4 Gr.5
	19131312	Macher 19/20 v 19/10 v 10 0		3680400	Nut Crownlock 1/4-20 Unc
47	127783	Washer 13/32 x 13/16 x 12 Ga.		4780416	Bolt Hex Fin 1/4-20Unc x 1 Gr 5
	154407	Pulley, Idler, V-Groove, Plastic		9091010	Washer 5/8 x .281 x 10 Ga
	123205X	Bellcrank Clutch Gmd Drv Stl Retainer, Belt	165 16		Bracket Pivot Lever
	STD523715	Bolt	166 16		Screw 5/16-18 x 5/8
	STD541437	Nut Crown Lock 3/8-16 UNC	168 16		Bolt Shoulder 5/16-18 x .561
	STD541431	Nut Crown Lock 5/16-18 UNC	169 16	55580	Plate Fastening Lt
	105710X	Link, Clutch	170 16		Keeper Belt Transaxle Gear
	105709X	Spring, Clutch Return	197 16		Nyliner Snap-In
	STD523712	Bolt Fin Hex 3/8-16 x 1-1/4	198 16		Washer Nyliner
	130801	V-Belt, Ground Drive	202 72	110612	Bolt Carr. SH 3/8-16 x 1-1/2 Gr. 5
	127274X	Keeper, Belt, R.H.	204 17	060516	Screw 5/16-18 x 1 SMGML
	169691	Keeper, Belt, Center Span	NOTE	. All	
	17060612	Screw 3/8-16 x 3/4	MUIE	All compon	ent dimensions given in U.S.
	· <del>-</del>		ı	inches 1 inch	) = 25/4 mm

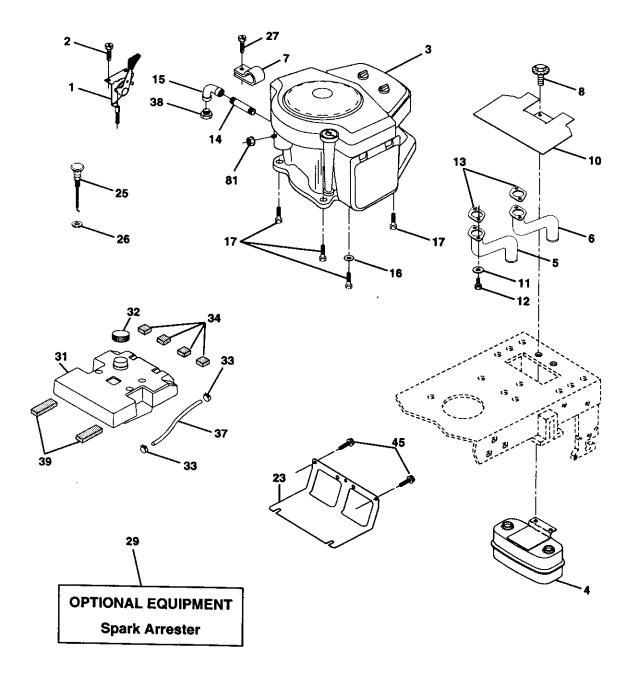
#### STEERING



#### **STEERING**

KEY PART	
NO. NO.	DESCRIPTION
1 139768	Steering Wheel
2 154427	Axie Assembly STMP Dropped STL
3 169840	Spindle Assembly, L.H.
4 169839	Spindle Assembly, R.H.
5 <b>6266H</b>	Bearing, Race, Thrust, Hardened
6 121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7 19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8 12000029	Ring, Klip
9 3366R	Bearing, Steering Column
10 169832 11 STD551137	Draglink
11 STD551137 13 136518	Washer, Lock
15 145212	Spacer, Bearing, Axle
17 156546	Nut, Hexflange Lock
18 57079	Shaft Assembly, Steering Washer, Thrust .515 x .750 x .033
19 160395	Support, Shaft
22 165857	Screw Hex Wshhd Torx
23 165851	Pittman Shaft Assembly
25 154406	Bracket, Steering
26 126847X	Bushing, Link, Drag
27 136874	Gear, Sector
28 19131416	Washer 13/32 x 7/8 x 16 Gauge
29 17060612	Screw 3/8-16 x 3/4
30 STD561210	Pin
32 130465	Rod, Tie
36 155099 37 152927	Bushing, Steering
37 152927 38 139769	Screw
39 19133812	Insert, Steering Wheel
40 STD541537	Washer 13/32 x 2-3/8 x 12 Gauge
41 100711L	Gripco Nut Adaptor, Steering Wheel
42 145054X428	Boot, Steering Wheel
43 121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44 153720	Extension Shaft Steering LR.LT
46 121232X	Cap, Spindle
47 6855M	Fitting, Grease
51 STD541431	Nut Lock Hex w/lns. 5/16-18 UNC
54 74780520	Bolt Fin Hex 5/16-18 UNC x 1-1/4
62 167902	Kit Steering Asm Service
63 STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr 5
65 160367	Spacer Axle
66 154404 67 72110618	Bearing Arm Pittman
67 72110618 68 169827	Bolt RDHD SQNK 3/8-16 x 2-1/4
79 19132012	Axle, Brace Washer 13/32 x 1-1/4 x 12 Ga
80 74950612	Bolt Hex Nylon 3/8-16 x 3/4
82 169835	Bracket Susp Chassis Front
85 133835	Fastner Christmas Tree
<del>-</del>	nent dimensions given in U. S.
inches 1 i	nch = 25/4 mm
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#### **ENGINE**

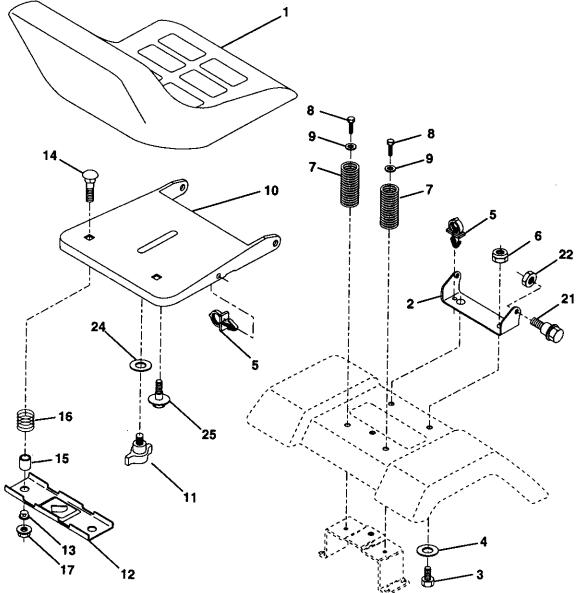


#### **ENGINE**

	Y PART ). NO.	DESCRIPTION
1	162152	Control, Throt Paddle 32 22
2	17720410	Screw, Hex Thd Cut 1/4-20 x 5/8
3		Engine, B&S, (See Breakdown) No. 461707-0145-E3
4	149723	Muffler Exhaust
5	144069	Exhaust Asm. Left
6	144068	Exhaust Asm. Right
7	138129	Clamp Tube Double Engine
8 10	150176	Bolt 5/16-18unc x 3/4 W/Sems
11		Heat Shield Lt
12	STD551125 STD522507	Washer Lock Hvy. Helical 1/4
13		Bolt Fin Hex 1/4-20Unc x .75
14		Gasket, Muffler
15		Nipple, Pipe 4-1/2
16		Elbow, Standard 90°, 3/8-18 NPT Washer Lock Ext Tooth 3/8
17		Screw Thorol 3/8-16x1-1/2 Tytt
	169837	Shield, Brn/Dbr Guard
	145996	Control Choke
	73920600	Nut Keps 3/8-24 Unf
27	152927	Screw TT #10-32 x 5 x 3/8 Flange
29	137180	Arrestor, Spark
31	157103	Tank, Fuel
32	161696	Cap Fuel Guage
33	123487X	Clamp, Hose
34	106082X	Spacer Pad
37	8543R	Line, Fuel
38		Plug, Oil Drain (See Engine Breakdown)
39		Pad Idler
45	· · · · · •	Screw 3/8-16 x 3/4 SMGML
81	128861	Nut Flange 1/4-20 Starter Nut

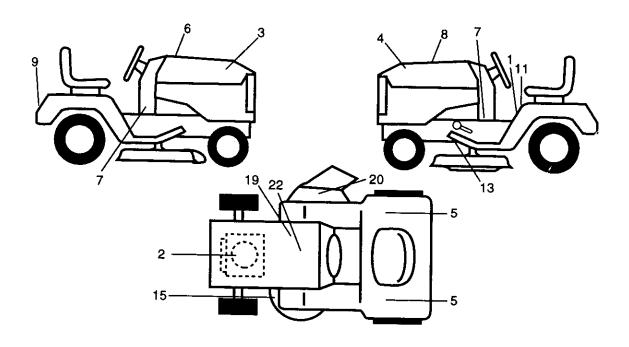
NOTE: All component dimensions given in U. S. Inches 1 inch = 25/4 mm

### SEAT ASSEMBLY



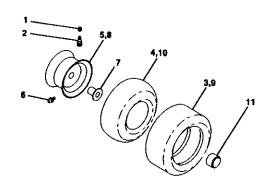
		الإي	
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1 140123 2 140551 3 71110616 4 19131610 5 145006 6 STD541437 7 124181X 8 17000616 9 19131614 10 155925 11 166369 12 121246X	Seat 3350 Blk/blk Craftsman Bracket Pnt Pivot Seat (blk) Bolt Fin Hex 3/8-16unc X 1 Washer 13/32 X 3/4 X 10 Ga Clip Push In Hinged Nut Hex Lock w/Ins 3/8-16 Unc Spring Seat Cprsn 2 250 Blk Zi Screw 3/8-16 x 1.5 SMGML Washer 13/32 X 1 X 14 Ga Pan Pnt Seat (blk) Knob Seat Bracket Pnt Mounting Switch	13 121248X 14 72050412 15 134300 16 121250X 17 123976X 21 171852 22 STD541431 24 19171912 25 127018X NOTE: All compo	Bushing Snap Blk Nyl 50 ld Bolt Rdhd Sht Nk 1/4-20x1-1/2 Spacer Split 28 X 96 Zinc Spring Cprsn 1 27 Blk Pnt Nut Lock 1/4 Lge Flg Gr 5 Zinc Bolt Shoulder 5/16-18 Unc-2A Nut Hex Lock w/lns 5/16-18 Washer 17/32 X 1-3/16 X 12 Ga. Bolt Shoulder 5/16-18 X 62 Innent dimensions given in U. S. inch = 25/4 mm

#### **DECALS**



KEY NO. 1 2 3 4 5 6 7 8 9		DESCRIPTION  Decal, Fender Danger Sears Decal, Engine Decal, Hood, R.H. Decal, Hood, L.H. Decal, Fender Decal, Maintenance Decal, Panel Dash B&S Decal, Rplcmnt Decal, Fender, Craftsman Gold Decal, Fender STLT Oper Inst E/S	PART NO. 146046 160396 138047 166887 149516 138311 165800X428 165799X428 173529 173530	DESCRIPTION  Decal, V-Belt Dr Sch Tractor Decal, Mower Drive Schematic Decal, Battery Diehard Sears Decal, Deck Mower EZ3 Decal, Battery Decal, Lift Handle Pad Footrest LH STLT Pad Footrest RH STLT Owner's Manual, English
•	150506	Decai, Fender STLT Oper Inst E/S	 173530	Owner's Manual, Spanish

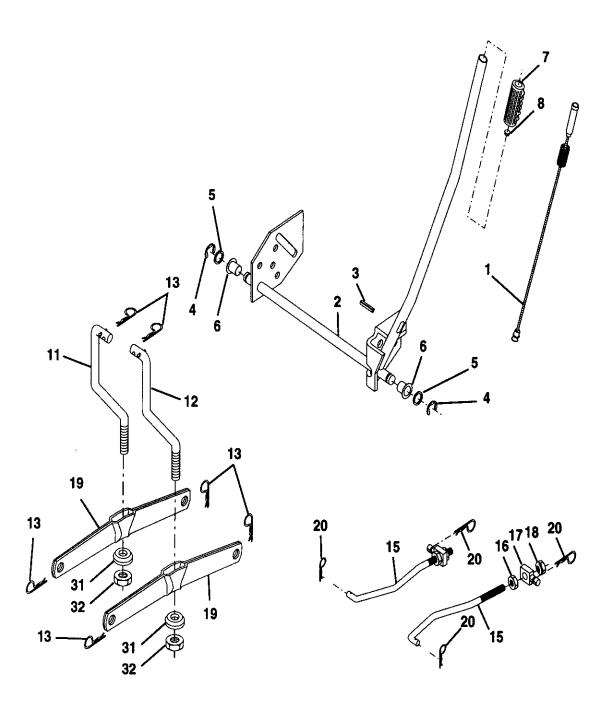
#### WHEELS AND TIRES



KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item
		Only)
5	106732X427	Rim, Front
6	278H	Fitting, Grease (Front Wheel
		Only)
7	9040H	Bearing, Flange (Front Wheel
_		Only)
8	106108X427	Rim, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear Tire
		(Not Provided, Service Item
		Only)
	104757X	Cap, Axle
	144334	Sealant, Tire 10 oz.
NOT	E: All compone	ent dimensions given in U.S.

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

#### LIFT ASSEMBLY

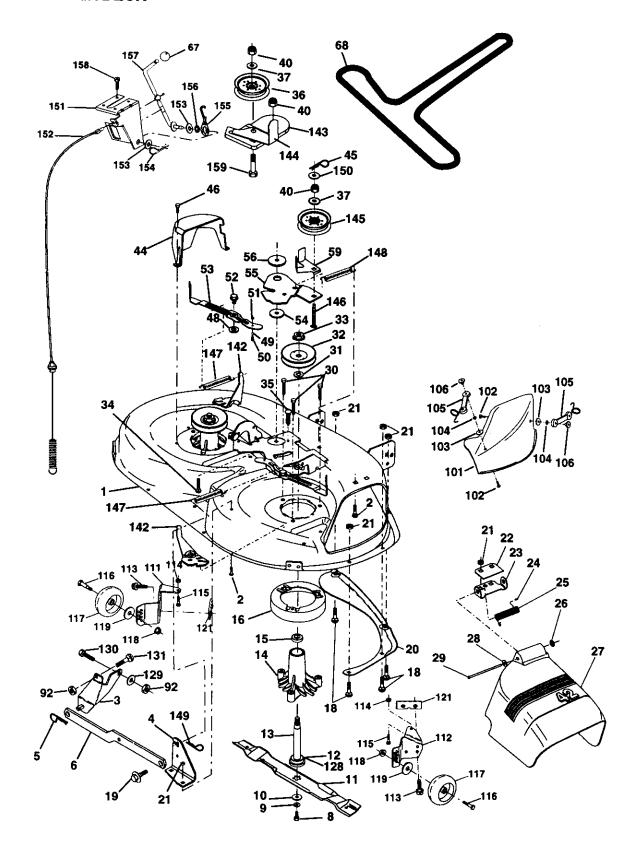


#### **LIFT ASSEMBLY**

KE NO	Y PART NO.	DESCRIPTION
1	159460	Lift Lever Inner Wire Assembly
2	159471	Shaft Assembly, Lift
3	105767X	Pin, Groove
4	12000002	E-Ring
	19211621	Washer 21/32 x 1 x 21 Gauge
	120183X	Bearing, Nylon
7		Grip, Handle, Fluted
8		Button, Plunger, Red
11	139865	Link, Lift, L.H.
12	139866	Link, Lift, R.H.
13	STD624008	Retainer Spring
15	167253	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	130171	Trunnion
18	73800800	Nut Lock w/Wsh 1/2-13 UNC
19	139868	Arm, Suspension, Rear
20	163552	Retainer Spring
	140302	Bearing, Pvt, Lift Special
	73540600	Nut, Crownlock 3/8-24

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

#### **MOWER DECK**

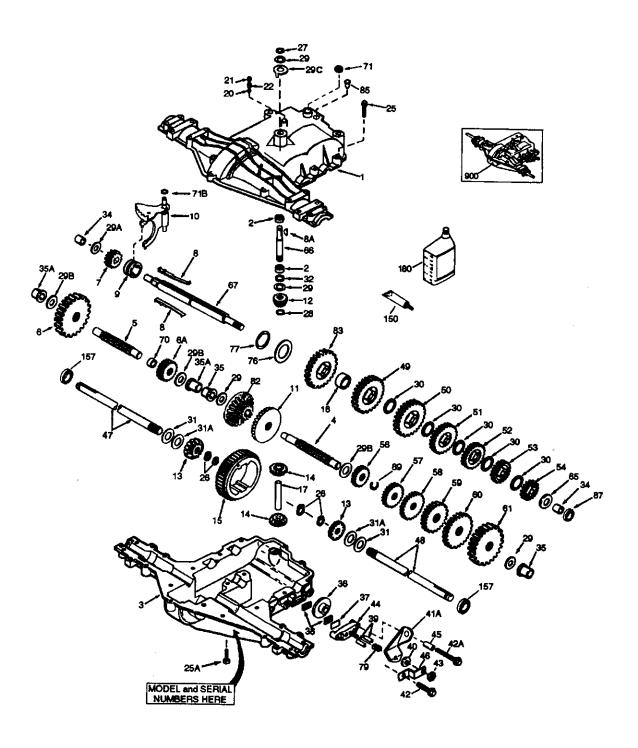


#### **MOWER DECK**

KEY	PART		KEY PART	
	NO.	DESCRIPTION	NO. NO.	DESCRIPTION
1	165892	Mower Deck Assembly, 42"	56 165723	Spacer, Retainer
2	STD533107	Bolt	59 141043	Guard, TUV Idler
3	138017	Bracket Assembly, Sway Bar,	67 149846	Knob Custom Oval
		Front	68 144959	V-Belt
4	165460	Bracket Sway Bar 38/42" Deck	92 STD541437	Nut
5	STD624008	Retainer Spring	101 136420	MulcherCover
6	130832	Arm, Suspension, Rear	102 71161010	Screw
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr. 8	103 19061216	Washer #10
9	STD551137	Washer, Lock	104 STD551110	Washer, Lock
10	140296	Washer, Hardened	105 160793	Latch Assembly, Bagger
11	134149	Blade, Mulching	106 2029J	Nut, Weld
12	129895	Bearing, Ball	111 155197	Bracket, Gauge, Wheel L.H.
13	137645	Shaft Assembly, Mandrel, Vented	112 155198	Bracket, Gauge, Wheel R.H.
		(Includes Key	113 17060512	Screw 5/16-18 x 3/4
		Number 12)	114 STD541431	Nut, Hex, Keps 5/16-18 UNC
14	128774	Housing, Mandrel, Vented	115 72110504	Bolt, Carriage 5/16 UNC x 1/2
15	110485X	Bearing, Ball, Mandrel	116 4898H	Bolt, Shoulder
16	140329	Stripper, Vented Mower Deck	117 165746	Wheel, Gauge
18	72140505	Bolt, Carriage 5/16-18 x 5/8	118 73930600	Nut, Centerlock 3/8-16
19 20	132827	Bolt, Shoulder	119 STD551037	Washer 3/8 x 7/8 x 14 Gauge
21	159770 CTDE41421	Baffle, Vortex	121 143723	Bracket
22	STD541431	Nut Crownlock 5/16-18 UNC	128 153390	Washer Felt
23	134753 131267	Stiffener Bracket	129 19131312	Washer 13/32 x 13/16 x 12 Ga.
24	105304X	Bracket, Deflector	130 STD523710	Bolt, Fin Hex 3/8-16 UNC x 1
25	123713X	Cap, Sleeve	404 OTD500740	Gr. 5
26	110452X	Spring, Torsion, Deflector Nut, Push	131 STD533710	Bolt, Rdhd Sqnk 3/8-16UNC x 1
27	130968X428	Shield, Deflector	142 165890	Arm Spring Brake Mower
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	143 157109 144 158634	Bracket Arm Idler 42"
29	131491	Rod, Hinge		Keeper Belt 42" Clutch Cable
30	157722	Screw Thdrol Washer Head	145 165888 146 165891	Pulley Idler Flat
31	129963	Washer, Spacer	147 131335	Bolt Carriage Idler
32	153535	Pulley, Mandrel	148 169022	Spring Extension
33	137266	Nut, Toplock, Flanged	149 165898	Spring Return Idler Retainer Spring Yellow Zinc
34	STD533717	Bolt	150 19091216	Washer 9/32 x 3/4 x 16 Ga.
35	133835	Fastner, Christmas Tree	151 169670	Bracket Clutch
36	131494	Pulley, Idler, Flat	152 169676	Cable Clutch 42 In
37	STD551037	Washer 13/32 x 13/16 x 16	153 169674	Washer Flat 3/8" Type B
		Gauge	154 169675	Spring Retainer
40	STD541437	NutČrownlock 3/8-16 UNC	155 169671	Spring Retention Lever
44	140088	Guard, Mandrel, L.H.	156 169672	Spacer
45	STD624003	Retainer	157 169669	Rod Clutch
46	137729	Screw, Thd. Roll 1/4-20 x 5/8	158 17720410	Screw Hex Thd Cut 1/4-20 x 5/8
48	133944	Washer, Hardened	159 STD533717	Bolt Rdhd Sqn 3/8-16Unc x 1-3/4
49	155066	Roller Assembly, Cam Follower	130794	Mandrel Assembly (Includes Key
50	131340	Bolt, Shoulder #10-24 Grade 5		Numbers 8-10, 12-15, 31 and 32)
51	STD541410	Locknut	169583	Mower Deck, Complete (Standard
52	139888	Bolt, Shoulder 5/16-18 UNC		Deck, Order Separately Mulcher
53	131845	Arm Assembly, Pad, Brake		Plate and Gauge Wheel
54	133943	Washer, Hardened	•	Components, Key Nos. 101-106
55	155046	Arm, Idler		and 111-121)
			NOTE: All compo	onent dimensions given in U.S.

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

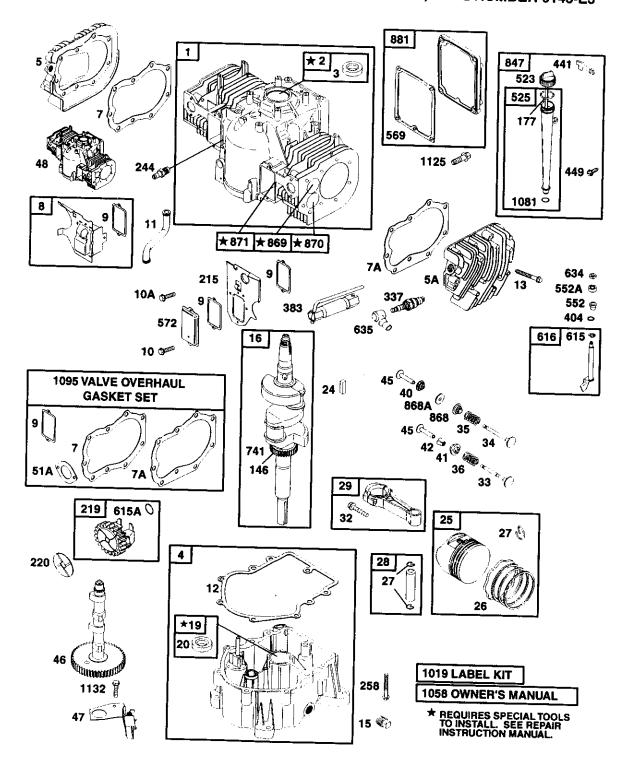
## TRACTOR -- MODEL NUMBER 917.270912 PEERLESS TRANSAXLE--MODEL NUMBER 206-545C



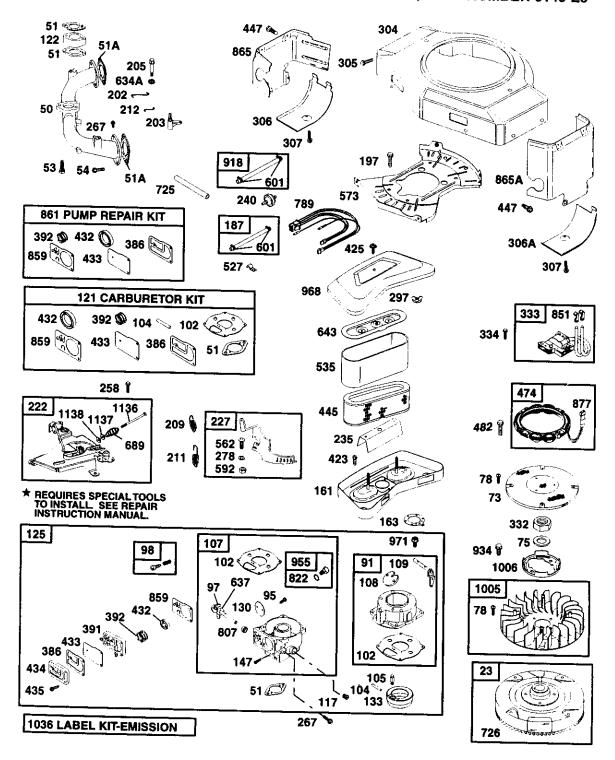
## TRACTOR -- MODEL NUMBER 917.270912 PEERLESS TRANSAXLE--MODEL NUMBER 206-545C

	Y PART . NO.	DESCRIPTION	KE'	Y PART . NO.	DESCRIPTION
1	772147	Transaxle Cover	39	786026	Down Bin
2	780086A	Needle Bearing 5/8"	40	792076A	Dowel Pin Flat Washer
3	770128	Transaxle Case	70	132010A	.312 ID x .059W
4	776395	Countershaft	414	790079	
5	776409	Output Shaft	42	792073A	Brake Lever
6	778364	Spur Gear (38 teeth)		792085A	Screw 1/4 - 20 x 1-1 /4"
6A	778369	Spur Gear (15 teeth)	43	792075	Screw 1/4 - 20 x 2 1/4"
7	778330	Spur Gear (11 teeth)	44	790025	Locknut 5 / 16 - 24 Brake Pad Holder
8	792180	Shift Key	45	786066	Spacer .2625 x 1.0
8A	792047	Woodruff Key #9	46	786086	Brake Lever Bracket
9	784352	Shift Collar	47	774690	Axle (11-15 / 16" Long)
10	784378	Shift Rod & Fork	48	774691	Axle (16 - 1 / 2" long)
11	778334	Bevel Gear (30 teeth)	49	778356	Spur Gear (29 teeth)
12	778309	Input Bevel Pinion (13 teeth)	50	778338	Spur Gear (27 teeth)
13	778368	Bevel Gear (13 teeth)	51	778354	Spur Gear (23 teeth)
		(Include, 14)	52	778352	Spur Gear (19 teeth)
14	778368	Bevel Pinion (13 teeth)	53	778350	Spur Gear (16 teeth)
4-		(Include, 13)	54	778346	Spur Gear (15 teeth)
15	778370	Ring Gear (43 teeth)	56	778355	Spur Gear (11 teeth)
17	786188	Drive Pin	57	778337	Spur Gear (13 teeth)
18	786102	Spacer 1.130 X .695	58	778353	Spur Gear (17 teeth)
20	792077A	Ball 5/16" dia	59	778351	Spur Gear (21 teeth)
21	792078	Set Screw 3/8 - 16 x 3/8"	60	778349	Spur Gear (24 teeth)
22	792079	Spring .310 OD x .625 L	61	778345	Spur Gear (25 teeth)
25	792073A	Screw 1/4 - 20 x 1-1/4"	65	780189	Flat Washer
25A	792177	Screw 1/4-20 x 1-3/8"			.563 ID x .062W
26	792125	Retaining Ring (pkg of 2)	66	776422	Input Shaft
27	792035	Retaining Ring	67	776396	Shifter & Brake Shaft
28	788040	Retaining Ring	69	792170	Retaining Ring
29	780072	Thrust Washer	70	786187	Spacer .890
20.4	700400	.627 ID x .031W	71	788069	Square Cut Ring
29A	780160	Thrust Washer	71B	788092	"O" Ring
200	700054	.762 ID x .031W	76	780090	Flat Washer
230	780051	Thrust Washer			1.128 ID x .058W
200	780199	.762 ID x .031W	77	788078A	Inverted Retaining Ring
30	780199 780108	Anti-Rotation Washer .632	79	792144	Spring .430 OD x .5000 L
30	700108	Cup Washer	82	778333	Bevel & Spur Gear (30 & 13
31	780001	1.127 ID x .032W			teeth)
31	780001	Flat Washer	83	778338	Spur Gear (27 teeth)
		.750 ID x .056W	85	792154	Oil Fill Plug
21Δ	780195	(Use As Needed)	87	788089A	Oil Seal 9 / 16"
UIA	700195	Flat Washer	150	788093A	Liquid Gasket RTV Silicone
32	788083	.750 ID x .062W	157	788088A	Oil Seal 3 /4"
34	780194	Oil Seal 5/8"	180	730229A	Gear Oil 80W90
35	780194	Bushing .563	900	794712	Replacement MST
	780193	Flanged Bushing 5 / 8" ID			206-545C Transaxle
36	790075	Flanged Bushing .751			
37	790073	Brake Disk	NOT	E: All comp	ponent dimensions given in
38	799021	Brake Pad Plate		U.S. in	ches 1 inch = 25.4 mm
		Brake Pad (pkg of 2)			

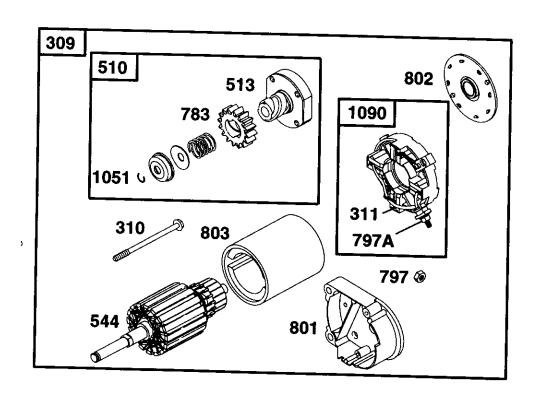
## TRACTOR -- MODEL NUMBER 917.270912 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E3

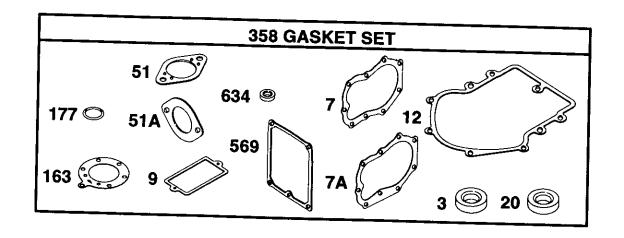


## TRACTOR -- MODEL NUMBER 917.270912 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E3



# TRACTOR -- MODEL NUMBER 917.270912 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E3





## BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E3

KEY	PART			KEY	PART	11 E HOMBEN 0149-E9
NO.	NO.		DESCRIPTION	ÑŌ.	NO.	DESCRIPTION
307	94930		Screw (Cylinder Shield)	797A	693167	Nut (Starter Terminal)
309	497596		Motor-Starter	801	394860	Cap-Drive
310	690323		Bolt (Starter Motor)	802	497607	Cap-End
311	497608		Brush Set	803	691427	Housing-Starter
332	230674		Nut (Flywheel)	807	693511	Spacer
333	394891		Armature-Magneto	822	693497	Washer-Seal
334	94731		Screw (Magneto Armature)	047	405745	(Throttle_Shaft)
337 358	802592		Plug-Spark	847 851	495715	Dipstick/Tube Assembly
383	495868		Gasket Set	859	493880	Terminal-Cable
386	89838	<b>.</b> .	Wrench-Spark Plug Gasket-Pump	861	693502	Diaphragm-Fuel Pump
391	693487	•	Body-Pump	865	691196	Kit-Fuel Pump Cover-Air Guide
392		•	Spring-Pump Diaphragm	865A		Cover-Air Guide
404	690442	•	Washer (Governor Crank)	868	497656	Seal-Valve
423	691100		Screw (Air Cleaner Base)	868A	273312	Seal-Valve
425	94823		Screw (Air Cleaner Cover)	869	261463	Seat-Valve (Intake)
432		•+	Cap-Spring	870	262924	Seat-Valve (Exhaust)
433	693489	•	Diaphragm-Fuel Pump	871	261961	Bushing-Guide (Exhaust)
434	693493	•	Cover-Diaphragm		231218	Bushing-Guide (Intake)
435	693494		Screw (Diaphragm Cover)	877	393456	Wire-Alternator
441	691176		Bracket-Oil Fill	881	495901	Plate-Cover
445	394019		Filter-Air	918	393815	Hose-Vacuum
447	690297		Screw (Air Guide Cover)			(Cylinder-To-Impulse Pump)
449	94882		Screw (Oil Fill Bracket)			(Cut to Required Length)
474	393474		Alternator	934	94627	Screw (Fan Retainer)
482	93621		Screw (Alternator)	955	693513	Plug-Carburetor
510	497606		Drive-Starter	968	691207	Cover-Air Cleaner
513.	398003		Clutch-Drive	971	690720	Screw (Upper Body
523 525	691385		Dipstick	1005	400457	To Lower Body)
525 527	690823		Tube-Oil Fill	1005	498157	Fan-Flywheel
535	690423 272490		Clamp-Tube	1006 1019	691247	Retainer-Fan
544	497603		Filter-Air	1036	496726	Label Kit
552	690553		Armature-Starter	1051	694979 263080	Label Kit-Emission
552A	690552		Bushing (Governor Crank) Bushing (Governor Crank)	1058	273688	Ring-Retaining Owner's Manual
562	690311		Bolt-Carriage	1081		Seal-O-Ring
	000011		(Governor Lever)	1090	497605	Retainer-Brush
569	272645	*	Gasket-Base	1095	498047	Gasket Set-Valve Overhaul
572	690415	•	Cover-Breather	1125	691104	Screw (Cover Plate)
			(Cylinder #2)	1132	690353	Screw (Oil Slinger)
573	690764		Plate-Back	1136	690329	Screw
592	92278		Nut (Governor Lever)			(Governor, Control Rod)
601	95162		Clamp-Hose	1137	690390	Washer
615	690328		Retainer (Governor Crank)			(Governor, Control Rod)
	690317		Retainer-Governor Shaft	1138	690330	Nut
616	491530		Crank-Governor			(Governor, Control Rod)
634	690657	*	Seal-Governor Shaft			•
634A			Washer-Foam		445777-0027	7-E1 Replacement Engine
635 637	66538		Boot-Spark Plug	DDM (	S	
643	693510 496700		Washer-Seal	HPM :	Settings:	Low Speed: 1900-2100
689	690555		Retainer-Air Filter			High Speed: 3000-320
697	93585		Spring-Friction		Indudad is C	Santoni Ost Duf N
725	280866		Screw (Drive Cap)	*	anciuaea in G 358.	asket Set, Ref Number
726	391362		Shield-Heat	•		Carburator Mt. Det M
741	691285		Gear-Ring Gear-Timing	•	121.	arburetor Kit, Ref Number
783	693059		Gear-Starter	•		alue Overhaul Kit, Ref
789	695050		Wiring Harness	•	Number 109	aige Overnaur NI, Her S
797	94010		Nut (Starter Terminal)	+	Included in F	uel Pump Kit, Ref Number
			······ (Otation Tottiffical)	•	861	oo, i ump rat, nei number

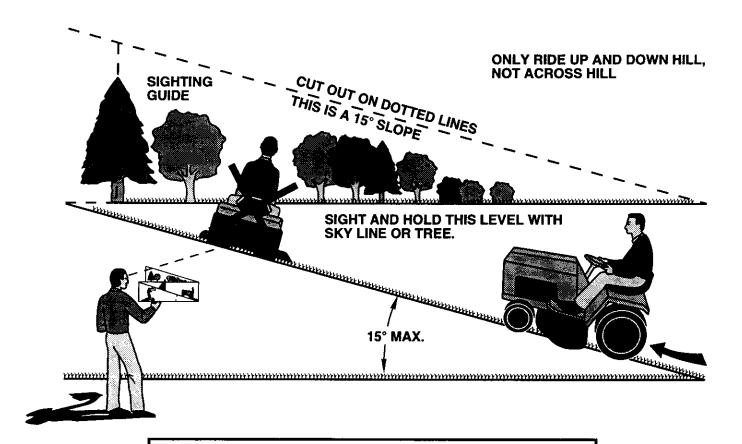
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

## BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E3

KEY	PART			KEY	PART	11 E 140MBEN 0149-E3
NO.	NO.		DESCRIPTION	NO.	NO.	DESCRIPTION
307	94930		Screw (Cylinder Shield)	797A		Nut (Starter Terminal)
309	497596		Motor-Starter	801	394860	Cap-Drive
310	690323		Bolt (Starter Motor)	802	497607	Cap-End
311	497608		Brush Set	803	691427	Housing-Starter
332	230674		Nut (Flywheel)	807	693511	Spacer
333	394891		Armature-Magneto	822	693497	Washer-Seal
334	94731		Screw (Magneto Armature)	0.47	405746	(Throttle_Shaft)
337	802592		Plug-Spark	847	495715	Dipstick/Tube Assembly
358	495868		Gasket Set	851 859	493880	Terminal-Cable
383 386	89838	<b>.</b>	Wrench-Spark Plug	861	603500	Diaphragm-Fuel Pump
391	693487	•	Gasket-Pump	865	693502 691196	Kit-Fuel Pump
392	603401	<b>.</b>	Body-Pump	865A	691197	Cover-Air Guide
404	690442	•	Spring-Pump Diaphragm	868	497656	Cover-Air Guide
423	691100		Washer (Governor Crank)	868A		Seal-Valve Seal-Valve
425	94823		Screw (Air Cleaner Base) Screw (Air Cleaner Cover)	869	261463	Seat-Valve (Intake)
432	693492	•	Cap-Spring	870	262924	Seat-Valve (Exhaust)
433	693489		Diaphragm-Fuel Pump	871	261961	Bushing-Guide (Exhaust)
434	693493	• 1	Cover-Diaphragm	•	231218	Bushing-Guide (Intake)
435	693494		Screw (Diaphragm Cover)	877	393456	Wire-Alternator
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445	394019		Filter-Air	918	393815	Hose-Vacuum
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527	690423		Clamp-Tube	1006	691247	Retainer-Fan
535	272490		Filter-Air	1019	496726	Label Kit
544	497603		Armature-Starter	1036	694979	Label Kit-Emission
552	690553		Bushing (Governor Crank)	1051	263080	Ring-Retaining
552A			Bushing (Governor Crank)	1058	273688	Owner's Manual
562	690311		Bolt-Carriage	1081	280860 ★	Seal-O-Ring
F00			(Governor Lever)	1090	497605	Retainer-Brush
569	272645	*	Gasket-Base	1095	498047	Gasket Set-Valve Overhaul
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E 70	600764		(Cylinder #2)	1132	690353	Screw (Oil Slinger)
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601	92278 95162		Nut (Governor Lever)	1137	600200	(Governor, Control Rod)
615	690328		Clamp-Hose	1137	690390	Washer
	690317		Retainer (Governor Crank)	1138	690330	(Governor, Control Rod)
616	491530		Retainer-Governor Shaft	1136	090330	Nut
634	690657		Crank-Governor Seal-Governor Shaft			(Governor, Control Rod)
634A	271013	^	Washer-Foam		445777-0027	-E1 Replacement Engine
635	66538		Boot-Spark Plug		1-10/1/1-002/	-Li neplacement Engine
637	693510		Washer-Seal	RPM .	Settings:	Low Speed: 1900-2100
643	496700		Retainer-Air Filter		comings.	High Speed: 3000-320
689	690555		Spring-Friction			riigii Opeed. 3000-320
697	93585		Screw (Drive Cap)	☆	Included in G	iasket Set, Ref Number
725	280866		Shield-Heat		358.	
726	391362		Gear-Ring	•		arburetor Kit, Ref Number
741	691285		Gear-Timing	-	121.	
783	693059		Gear-Starter	•		alue Overhaul Kit, Ref
789	695050		Wiring Harness		Number 1095	).
797	94010		Nut (Starter Terminal)	+	Included in F	uel Pump Kit, Ref Number
	-		( - to to thinking		861	and the same same of

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

#### SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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