Owner's Manual

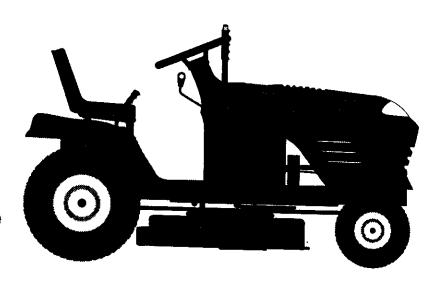
CRAFTSMAN®

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

Model No. 917.270814



- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts





CAUTION:

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

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

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

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT

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

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- · Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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

SAFETY RULES

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.

SAFETY RULES

- 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.
- 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.

SAFETY RULES

- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- · Never tamper with safety devices. Check their proper operation regularly.
- · Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storina.
- 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
- 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. **CAUTION:** Tow only the attachments

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

AWARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, 4 birth defects, or other reproductive harm.

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

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

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

PRODUCT SPECIFICATIONS

HODOCI SPEC	
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OILTYPE (API-SF/SG/SH):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	3.0 PINTS
SPARK PLUG: (GAP: .030")	Champion RJ19LM OR J19LM
VALVE CLEARANCE:	INTAKE: .004"006" EXHAUST: .007"009"
GROUND SPEED (MPH):	FORWARD: 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 SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	27-35 FT. LBS.

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

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

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

MAINTENANCE AGREEMENT

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

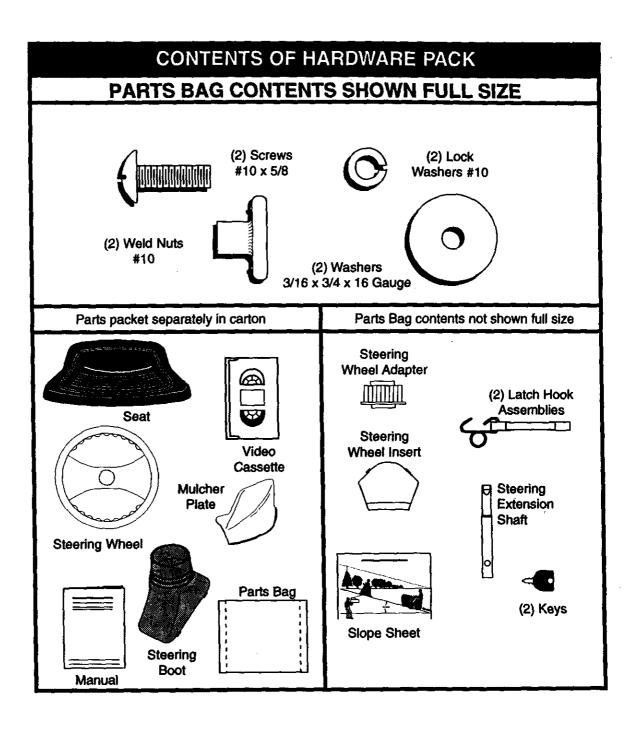
CUSTOMER RESPONSIBILITIES

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

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

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center (See REPAIR PARTS section of this manual).

CONTENTS OF HARDWARE PACK PARTS BAG CONTENTS SHOWN FULL SIZE (1) Large Flat Washer (1) Hex Bolt 3/8-16 x 1 (1) Lockwasher 3/8 (1) Hex Bolt 5/16-18x 1-1/4 (1) Locknut 5/16-18 (1) Shoulder Bolt 5/16-18 (1) Washer 17/32 x 1-3/16 x 12 Gauge (1) Knob



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) Phillips Screwdriver
- (1) Pliers(1) Tire pressure
- (1) Utility knife
- gauge

(1) 3/4" socket with drive ratchet 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 ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

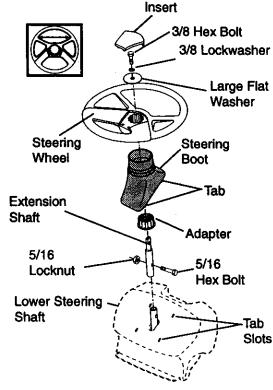
 Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

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

 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.
- Slide steering wheel adapter onto steering shaft extension.

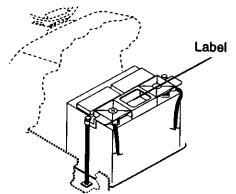


- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood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

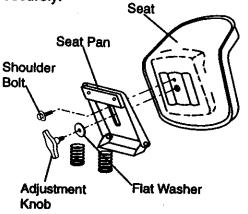
- Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTE-NANCE section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- 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.



INSTALL MULCHER PLATE

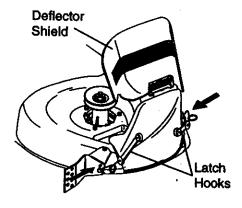
 Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

NOTE: Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- Tighten hardware securely.
- 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 discharge guard from mower. Raise and hold guard 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:

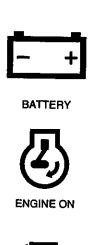
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged.(Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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









FORWARD





CAUTION OR WARNING

REVERSE





FAST

SLOW

ENGINE OFF





LIGHTS ON



LIGHT













FUEL

CHOKE

MOWER HEIGHT

PARKING BRAKE LOCKED

UNLOCKED

MOWER LIFT

















CLUTCH ENGAGED

REVERSE

NEUTRAL

HIGH

LOW

PARKING BRAKE





ATTACHMENT CLUTCH DISENGAGED









KEEP AREA CLEAR

SLOPE HAZARDS (SEE SAFETY RULES SECTION)











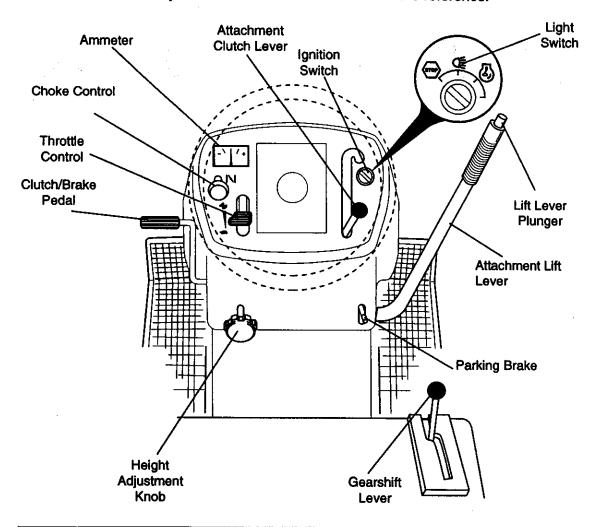
DANGER, KEEP HANDS AND FEET AWAY

FREE WHEEL (Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

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

HEIGHT ADJUSTMENT KNOB: Used to adjust the mower cutting height.

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 (-).



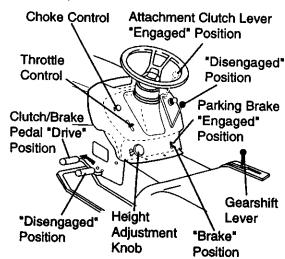
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR

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.

TO SET PARKING BRAKE

- 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 cutting height is controlled by turning the height adjustment knob in desired direction.

- Tum knob clockwise (~) to raise cutting height.
- Turn knob counterclockwise (下) to lower cutting height.

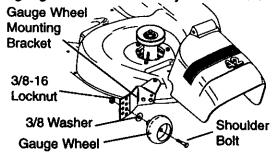
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- 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.

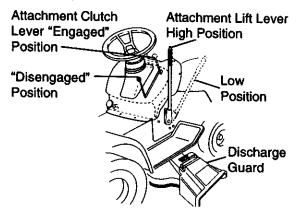


TO OPERATE MOWER

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.
- Lower mower with attachment lift control.
- 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 discharge guard 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 ATTACH-MENTS

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

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)

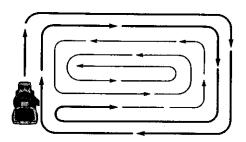
 When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control out 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

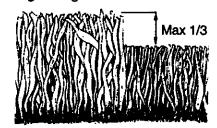
- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the 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

CUSTOMER RESPONSIBILITIES

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- 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 of 3 If equipped with all filter, change all every 50 hours.
- 5 If equipped with adjustable system
- 6 Not required if equipped with maintenance-free bat
 7 Tighten front axle pivot bolt to 35 ft.-lbs. maximum.

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.

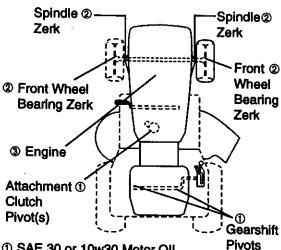
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

 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
- ② General Purpose Grease
- 3 Refer to Maintenance "Engine" Section

IMPORTANT: Do not oil or grease the pivot points which have special nylon bear-ings. 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 spar-18 ingly.

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

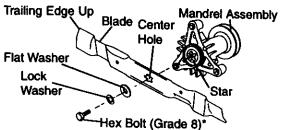
- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with

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

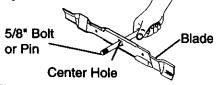
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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 19an 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.

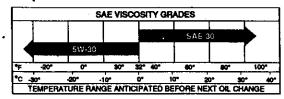
TRANSAXLE COOLING

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

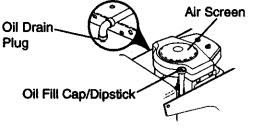
engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 hours in one year.

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.

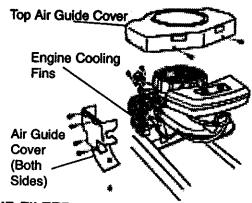


CLEAN AIR SCREEN

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.

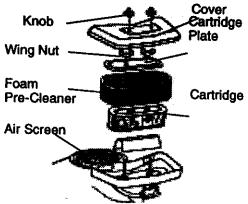
TO SERVICE PRE-CLEANER

- 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.

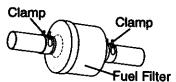
SPARK PLUGS

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.

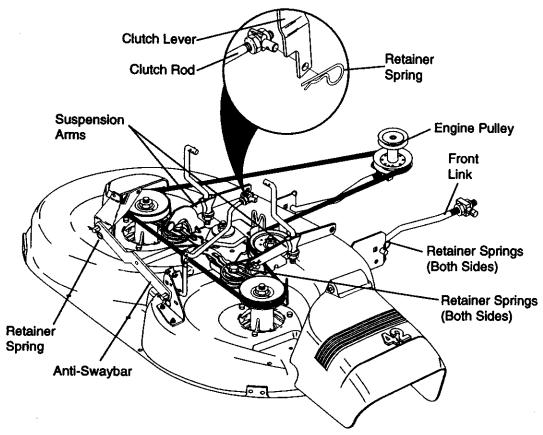
- Place attachment clutch in "DISEN-GAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.

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

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links.

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

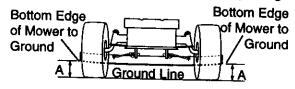
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PROD-UCT SPECIFICATIONS" section of this manual). If tires are over or underinflated, you will not properly adjust your mower.

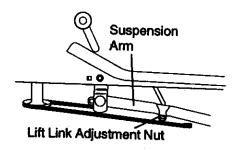
SIDE-TO-SIDE ADJUSTMENT

- · 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.





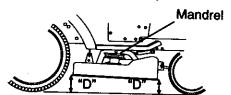
FRONT-TO-BACK ADJUSTMENT

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.

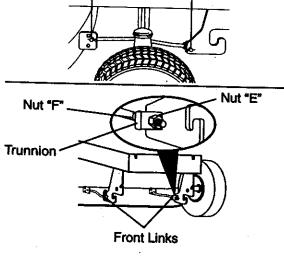
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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)

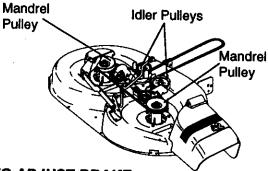
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

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.
- 23 Pull belt away from mower.

BELT INSTALLATION -

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

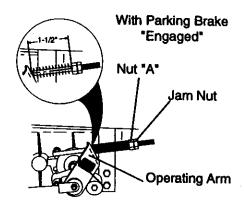


TO ADJUST BRAKE

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

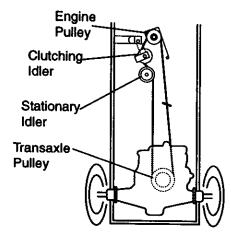
- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.



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.

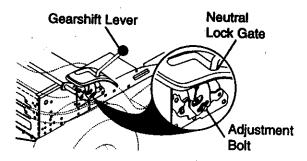
- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor.
 Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from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

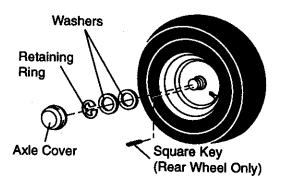
FRONT WHEEL TOE-IN/CAMBER

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:

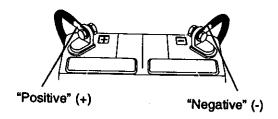
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

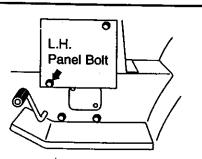
TO ATTACH JUMPER CABLES -

- 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.



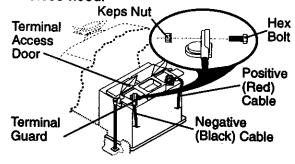


REPLACING BATTERY

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.

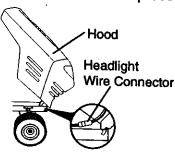
 Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 30 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 non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

TO ADJUST THROTTLE CONTROL CABLE

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

- With engine not running, move throttle control lever 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:

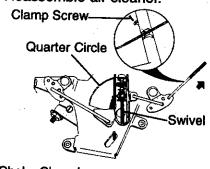
· With engine not running, move choke

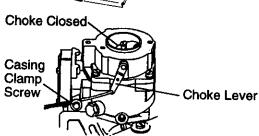
control (located on dash panel) to full choke position.

 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.

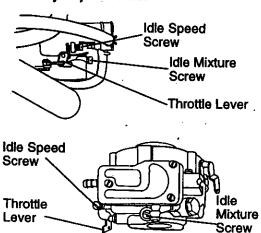
 Continue to hold throttle lever against idle speed screw and adjust idle speed screw to obtain 900 to 1200 RPM.
 Release throttle lever.

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 rust.

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

TROUBLESHOOTING CHART

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

TROUBLESHOOTING CHART

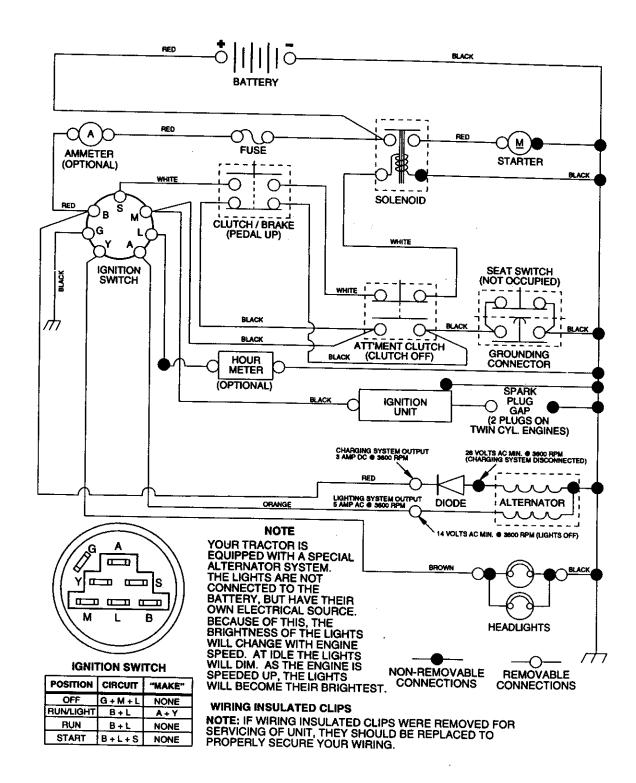
PROBLEM	CAUSE	CORRECTION				
Engine clicks but will not start (cont'd)	Loose or damaged wiring.Faulty solenoid or starter.	Check all wiring. Check/replace solenoid or starter.				
Loss of power	 Cutting too much grass/ too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service and Adjustments section. Contact an authorized service center. 				
Excessive vibration	 Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). 	 Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts. 				
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 autho- rized service center.				
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. 				

TROUBLESHOOTING CHART

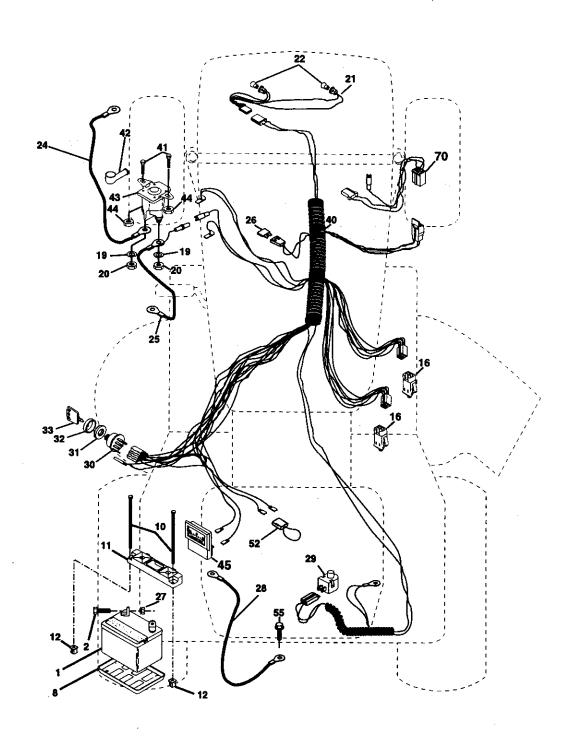
PROBLEM CAUSE		CORRECTION			
Poor cut - uneven (cont'd)	Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	Clean around mandrels to open vent holes.			
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley.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

SERVICE NOTES

SCHEMATIC



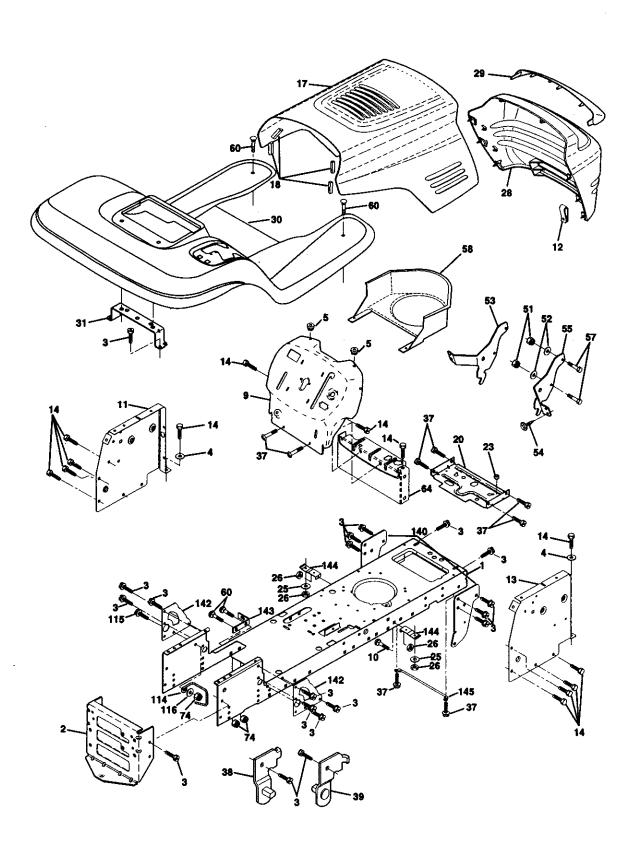
ELECTRICAL



ELECTRICAL

KEY	PART				
NO.	NO.	DESCRIPTION			
1	163465	Battery 12 VOLT 28 AMP			
2	74760412	Bolt Hex Hd 1/4-20unc x 3/4			
8	7603J	Case Battery			
10	145211	Bolt, Btr Front 1/4-20 x 7-1/2			
11	150109	Holddown Battery Front Mount			
12	145769	Nut, Push Nylon Battery Front 1/4			
16	153664	Switch, Interlock Push-In			
19	Std551125	Washer Lock 1/4			
20	73350400	Nut Jam Hex 1/4-20 Unc			
21	166182	Harness Light Socket (W/4152j)			
22	4152J	Bulb Light #1156			
24	4799J	Cable Battery			
25	146148	Cable Battery			
26	166180	Fuse 15 Amp			
27	73510400	Nut Keps Hex 1/4-20 Unc			
28	145491	Cable Ground			
29	121305X	Switch Seat			
30	140301	Switch Ign 4 Position			
31	124211X	Nut Ignition			
32	141226	Cover Ignition Switch			
33	109310X	Key Molded Craftsman			
40	166145	Harness Ign			
41	71110408	Bolt Blk. Fin Hex 1/4-20 Unc x 1/2			
42	131563	Cover Terminal			
43	145673	Solenoid			
. 44	73640400	Nut Keps Bik Hex 1/4-20 Unc			
45	121433X	Ammeter Rectangular 6 Amp			
52	141940	Protection Wire Loop			
55	17490508	Screw Thdrol 5/16-18 x 1/2			
70	166658	Harness Engine B&S			
NOTE 1 Inch	NOTE: All component dimensions give in U.S. inches 1 inch = 25.4 mm				

TRACTOR - - MODEL NUMBER 917.270814 CHASSIS AND ENCLOSURES

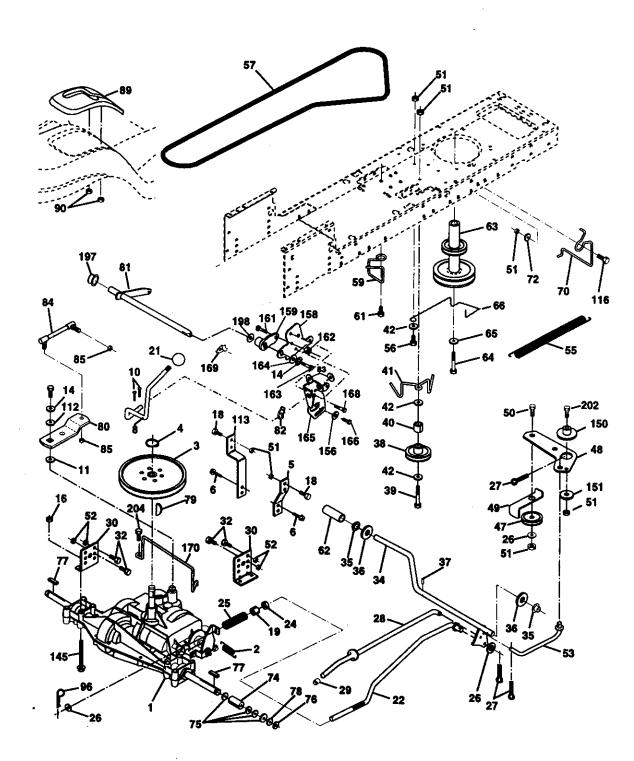


TRACTOR - - MODEL NUMBER 917.270814 CHASSIS AND ENCLOSURES

KEY	PART	
NO.	NO.	DESCRIPTION
1	166819	Chassis Assembly
2	140356	Drawbar
3	17490612	Screw, Thd. Roll. 3/8-16 x 1
4	STD551025	Washer 13/32 x 3/4 x 16 Gauge
5	155272	Bumper Hood/Dash
9	161917X013	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	155927	Panel, Dash, L.H.
12	145660	Clip Tinnerman Grille P/L
13	155936	Panel, Dash, R.H.
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	144983X558	Hood Assembly
18	126938X	Bumper Hood
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	145198X558	Grille w/Clips MS-558
29	155217X599	Lens, Grille
30	151287X558	Fend/Ftrest
31	139976	Bracket, Fender Support
37	17490508	Screw Thdrol 5/16-18 x 1/2
38	139886	Pivot Bracket Assembly, L.H.
39	139887	Pivot Bracket Assembly, R.H.
51	73800400	Nut Lock w/Insert 1/4-20 UNC
52	19091416	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 50	STD522507	Bolt, Fin Hex 1/4-20 UNC x .75
58	140547	Air Duct P/L 18HP B&S Opp. Twin
60	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64 74	154798 CTD544407	Dash Lower STLT
114	STD541437	Nut Crownlock 3/8-16 UNC
115	158112 17490620	Keeper Belt Rear Lh Sti
116	19131614	Screw Thrdol 3/8-16 x 1-1/4
140	158418	Washer 13/32 x 1 x 14 Ga.
142	165867	Bracket Suspension Front
143	154966	Plate Reinforcement STLT
144	154207	Bracket Swaybar Chassis Bracket Pnt Footrest STLT
145	156524	Rod Pivot Chassis/Hood
170	100024	nou rivot Chassis/Hood

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

GROUND DRIVE

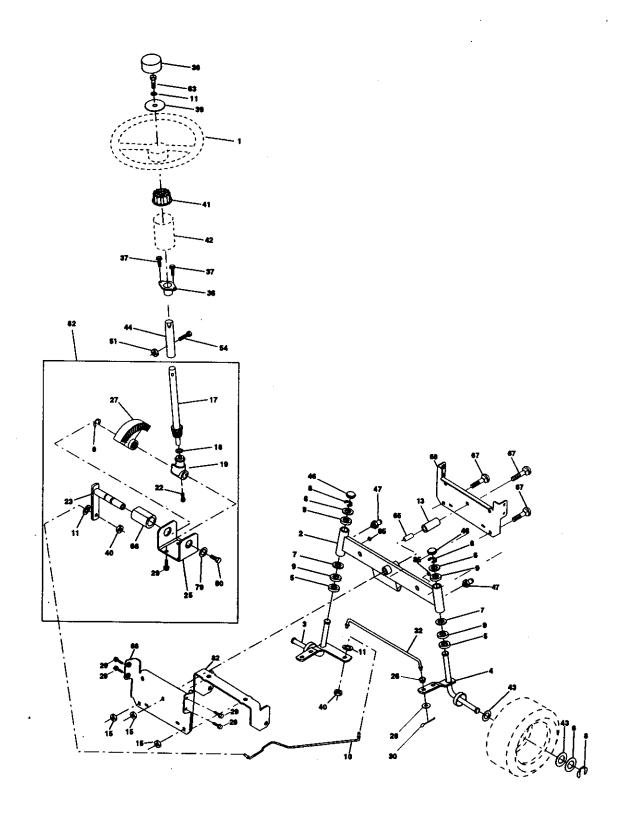


紫色器 经实际股份 (1966)

GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)	57	130801	V-Belt, Ground Drive
_	4.40000	Peerless 206-545C	58	127274X	Keeper, Belt, R.H.
2	146682	Spring, Return, Brake	59	140312	Keeper, Belt, Center Span
3 4	123666X	Pulley, Transaxle	61	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
5	12000028 121520X	Ring, Retainer	62	8883R	Cover, Pedal
6	17490512	Strap, Torque	63	140186	Pulley, Engine
_		Screw, Thd., Roll. 5/16-18 x 3/	64	71170764	Bolt, Hex Head, Fin. 7/16-20 x 4 Grade 5
8	165866	Rod Shifter Fender STLT	65	STD551143	Washer Lock 7/16
10	STD561210	Pin, Cotter 1/8 x 1	66	154778	Keeper, Belt, Engine, Fool-
11	105701X	Washer, Shift Plate			Proof
13	74550412	Bolt 1/4-28 UNF W/Patch Gr. 8	70	134683	Guide, Mower Drive Belt, R.H.
14	STD551125	Washer Lock 1/4	72	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
18	STD523710	Bolt Fin Hex 3/8-16 UNC x 1.	74	137057	Spacer, Axle
19	STD541437	Gr 5	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
21	106933X	Nut Lock Hex W/Ins.3/8-16 Knob	76	STD581075	E-Ring
22	130804		77	123583X	Key, Square 2.0 x .1845/.1865
24	STD541237	Rod, Brake Nut Hex Jam 3/8-16	78	121748X	Washer 25/32 x 1-5/8 x 16
25	106888X	Spring, Brake Rod	70	070	Gauge
26	STD551037	Washer 13/32 x 13/16 x 16 Ga.	79	STD580025	Key Woodruff
27	STD561210	Pin Cotter 1/8 x 3/4	80 81	145090	Arm, Shift
28	145204	Rod, Parking Brake	82	165592	Shaft Assembly
29	124236X	Cap, Parking Brake, Red	83	165711 19171216	Spring, Torsion
30	130807	Bracket, Transaxle	84	166231	Washer 17/32 x 3/4 x 16 Ga.
31	127275X	Keeper, Belt, L.H.	85	150360	Transaxle Link
32	STD523107	Bolt Hex Hd. 5/16-18 x 3/4	89	158391X428	Nut, Nylock Console, Shift, STLT
34	155071	Shaft Assembly, Foot Pedal	90	124346X	Nut, Self-Thding, Wsh Hd 1/4
35	120183X	Bearing, Nylon	96	STD624003	Retainer Spring 1*
36	STD551062	Washer 21/32 x 1 x 16 Ga.	112	19091210	Washer 9/32 x 3/4 x 10 Gauge
37	STD571810	Roll Pin 3/16 x 1"	113	127285X	Strap Torque 90 Degrees
38	131494	Pulley, Idler, Flat	116	72110610	Bolt Rdhd Sqneck 3/8-16 x 1.25
39	STD523727	Bolt Fin Hex 3/18-16 x 2-3/4	145	74490540	Bolt, Hex Fighd 5/16-18 Gr. 5
40	4470J	Spacer, Split .395 x .59	150	165850	Bushing Bellcrank
41	165838	Keeper, Belt, Idler	151	19133210	Washer 13/32 x 2 x 10 Ga.
42	19131312	Washer 13/32 x 13/16 x 12	156	166002	Washer Strted 5/16ID x 1 .125
47	127783	Ga.	158	165589	Bracket Shift Mount
48	154407	Pulley, idler, V-Groove, Plastic	159	165494	Hub tapered Flange Shift
49	123205X	Belicrank Clutch Grnd Drv Stl	160	19292016	Washer 29/32 x 1-1/4 x 16 ga.
50	STD523715	Retainer, Belt Bolt Hex Hd. 3/8-16 x 1-1/2	161	72140406	Bolt 1/4-20 3/4 gr.5
51	STD541437	Nut Crown Lock 3/8-16 UNC	162	73680400	Nut Crownlock 1/4-20 Unc
52	STD541431	Nut Crown Lock 5/16-18 UNC	163	74780416	Bolt Hex Fin 1/4-20
53	105710X	Link, Clutch	404	10001010	Unc x 1 Gr 5
55	105709X	Spring, Clutch Return	164	19091010	Washer 5/8 x .281 x 10 Ga
56	STD523712	Bolt Fin Hex 3/8-16 x 1-1/4	165 166	165623	Bracket Pivot Lever
			168	166880	Screw 5/16-18 x 5/8
			169	165492 165580	Bolt Shoulder 5/16-18 x .561
					Plate Fastening Cross
			1 inch =	: 25.4 mm	dimensions give in U.S. inches

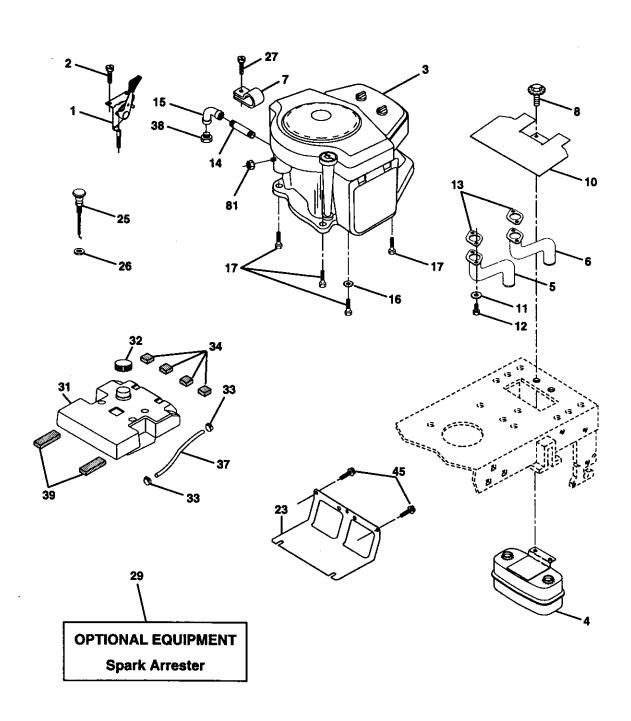
TRACTOR - - MODEL NUMBER 917.270814 STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.270814 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Steering Wheel
2	154427	Axle Assembly STMP Dropped STL
3	156483	Spindle Assembly, L.H.
4	157473	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
7	19272016	Washer 27/32 x 1-1/4 x 16 Gauge
8	12000029	Ring, Klip
9	3366R	Bearing, Steering Column
10	156438	Draglink Extended Stamped
11	STD551137	Washer, Lock 3/8
13	154779	Bearing Axle STLT/GT
15	73901000	Nut, Lock, Flange 5/8-11 UNC
17	156546	Shaft Assembly, Steering
18	57079	Washer, Thrust .515 x .750 x .033
19	160395	Support, Shaft
22	165857	Screw Hex Wsh. Hd 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	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
30	STD561210	Pin Cotter 1/8 x 3/4
32	130465	Rod, Tie
36	155099	Bushing, Steering
37	152927	Screw
38	139769	Insert, Steering Wheel
39	19133808	Washer 13/32 x 2-3/8 x 8 Gauge
40	STD541537	Nut Lock Center 3/8-24
41	100711L	Adaptor, Steering Wheel
42	145054	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
44	153720	Extension Shaft Steering LR.LT
46 47	121232X 6855M	Cap, Spindle
51	STD541431	Fitting, Grease Nut Lock Hex w/lns. 5/16-18 UNC
51 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	154780	Spacer Axle
66	154404	Bearing Arm Pittman
67	74781044	Bolt, Fin Hex 5/8-11 UNC x 2-3/4
68	154429	Axie, Brace
79	19132012	Washer 13/32 x 1 1/4 x 12 Ga.
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4

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

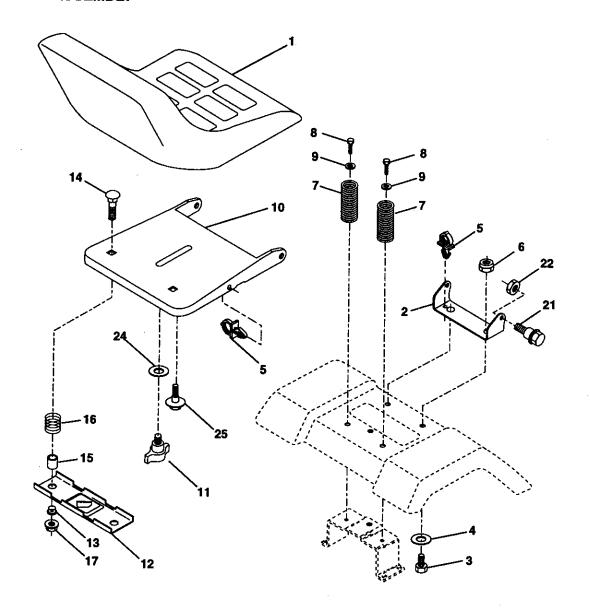


ENGINE

KEY NO.	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-E1
4	149723	Muffler Exhaust
5	144069	Exhaust Asm. Left
6	144068	Exhaust Asm. Right
7	138129	Clamp Tube Double Engine
8	150176	Bolt 5/16-18unc x 3/4 W/Sems
10	145552	Heat Shield Lt
11	STD551125	Washer Lock Hvy. Helical 1/4
12	STD522507	Bolt Fin Hex 1/4-20Unc x .75
13	165287	Gasket, Muffler
14	13280336	Nipple, Pipe 4-1/2
15	13200300	Elbow, Standard 90°, 3/8-18 NPT
16	STD551237	Washer Lock Ext Tooth 3/8
17	17490624	Screw Thdrol 3/8-16x1-1/2 Tytt
23	159880	Shield, Bm/Dbr Guard
25	145996	Control Choke
26	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
35	17490512	Screw Thdrol 5/16-18 x 3-4 Tyt
37	8543R	Line, Fuel
38		Plug, Oil Drain (Order From Engine Manufacturer)
39	109227X	Pad Idler
81	128861	Nut Flange 1/4-20 Starter Nut

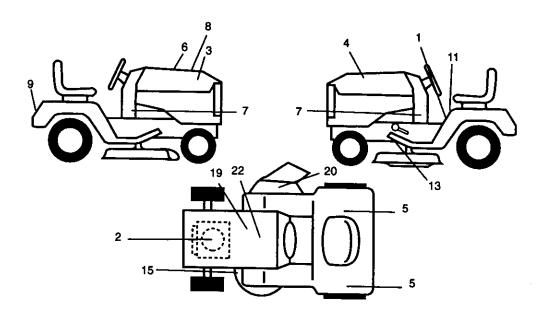
NOTE: All component dimensions given in U.S. Inches 1 inch = 25.4 mm

SEAT ASSEMBLY



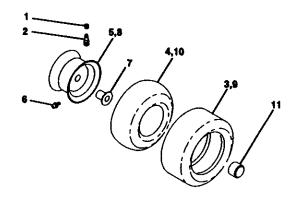
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION		
1	140123	Seat 3350 Bik/bik Craftsman	13	121248X	Bushing Snap Blk Nyl 50 Id		
2	140551	Bracket Pnt Pivot Seat (blk)	14	72050412	Bolt Rdhd Sht Nk 1/4-20x1-1/2		
3	STD523710	Bolt Fin Hex 3/8-16unc X 1	15	134300	Spacer Split 28 X 96 Zinc		
4	19131610	Washer 13/32 X 3/4 X 10 Ga	16	121250X	Spring Cprsn 1 27 Blk Pnt		
5	145006	Clip Push In Hinged	17	123976X	Nut Lock 1/4 Lge Flg Gr 5 Zinc		
6	STD541437	Nut Hex Lock w/lns 3/8-16 Unc	21	153236	Bolt Shoulder 5/16-18 Unc-2A		
7	124181X	Spring Seat Cprsn 2 250 Blk Zi	22	STD541431	Nut Hex Lock w/lns 5/16-18		
8	17490616	Screw Thdrol 3/8-16 X 1 Ty-tt	24	19171912	Washer 17/32 X 1-3/16 X 12		
9	19131614	Washer 13/32 X 1 X 14 Ga			Ga.		
10	155925	Pan Pnt Seat (blk)	25	127018X	Bolt Shoulder 5/16-18 X 62		
11	166369	Knob Seat Adj. Wingnut	NOTE: All component dimensions given in U.S.				
12	166396	Bracket Pnt Mounting Switch		linch = 25.4 m			

DECALS



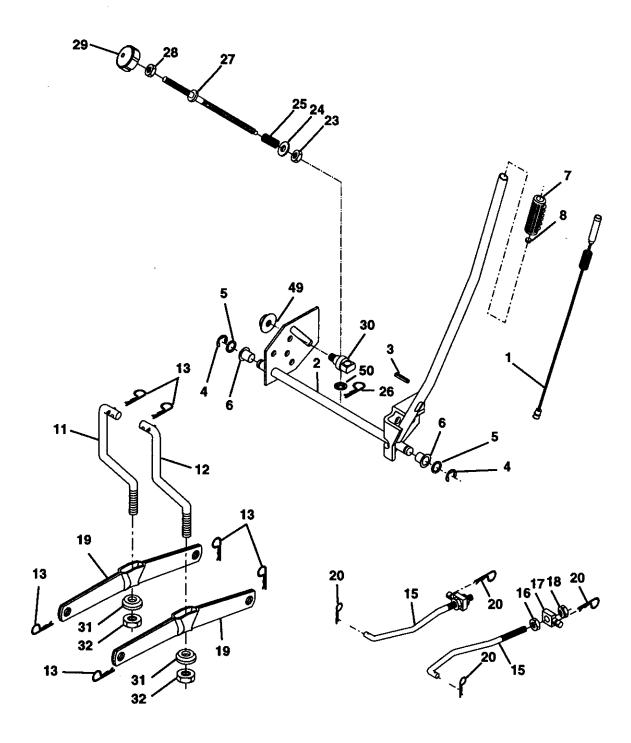
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	156439	Decal, Fender Danger Sears	11	156368	Decal, Fender STLT Oper Inst
2	165392	Decal, Engine B&S			E/S
3	163200	Decal, Hood, R.H. Craftsman	13	146046	Decal, V-Belt Dr Sch Tractor
4	163202	Decal, Hood, L.H. Craftsman	15	160396	Decal, Mower Drive Schematic
5	163207	Decal, Fender SD. Wht. Rad/	19	138047	Decal, Battery Diehard Sears
_		6Sp 42*	20	166887	Decal, Deck Mower EZ3
6	133644	Decal, Maintenance	22	149516	Decal, Battery
7	163259	Decal, Panel Dash B&S 19.5		138311	Decal, Lift Handle
•	400400	Turbo		154515	Pad Footrest LH STLT
8	167180	Decal Replacement SRS		168779	Pad Footrest RH STLT
9	163204	Decal, Fender, Craftsman Gold		172206	Owner's Manual, English
				172207	Owner's Manual, Spanish

WHEELS & TIRES



KEY NO.	PART 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)
11	104757X	Cap, Axie
	144334	Sealant, Tire 10 oz.

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

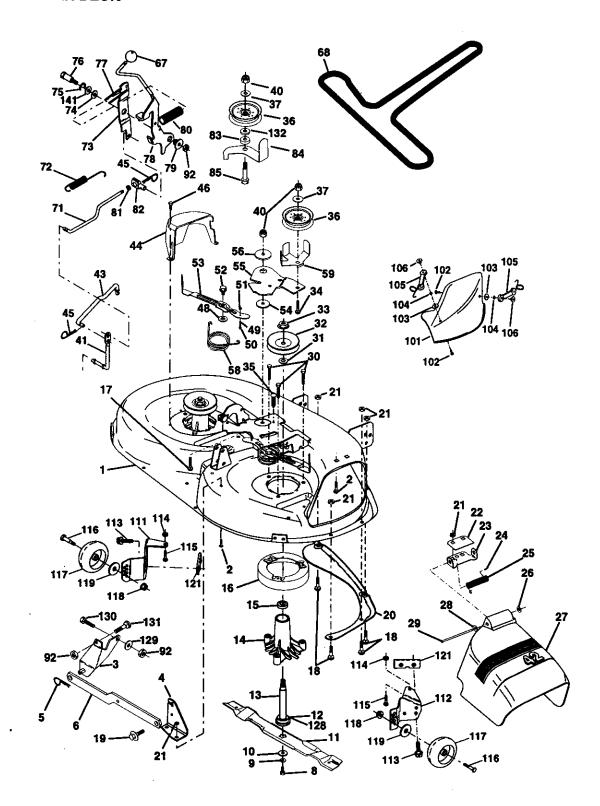


LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	159460	Lift Lever Inner Wire Assembly
2	159471	Shaft Assembly, Lift
3	105767X	Pin, Groove
4	12000002	E-Ring
5	19211621	Washer 21/32 x 1 x 21 Gauge
6	120183X	Bearing, Nylon
7	125631X	Grip, Handle, Fluted
8	122365X	Button, Plunger, Red
11	139865	Link, Lift, L.H.
12	139866	Link, Lift, R.H.
13	STD624008	Retainer Spring
15	127218	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	130171	Trunnion
18	73680800	Nut Lock 1/2-13 UNC
19	139868	Arm, Suspension, Rear
20	163552	Retainer Spring
23	110807X	Nut, Special
24	19131016	Washer 13/32 x 5/8 x 16 Gauge
25	2876H	Spring
26	76020308	Pin, Cotter 3/32 x 1/2
27	126971X	Rod, Adjust, Lift
28	73350600	Nut, Hex, Jam 3/8-16 UNC
29	138057	Knob, Inf. 3/8-16
30	150233	Trunnion, Inf Height
31	140302	Bearing, Pvt, Lift Special
32	73540600	Nut, Crownlock 3/8-24
49	145212	Nut Flange Lock
50	110452X	Nut Push Phos & Oil

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

MOWER DECK



MOWER DECK

56

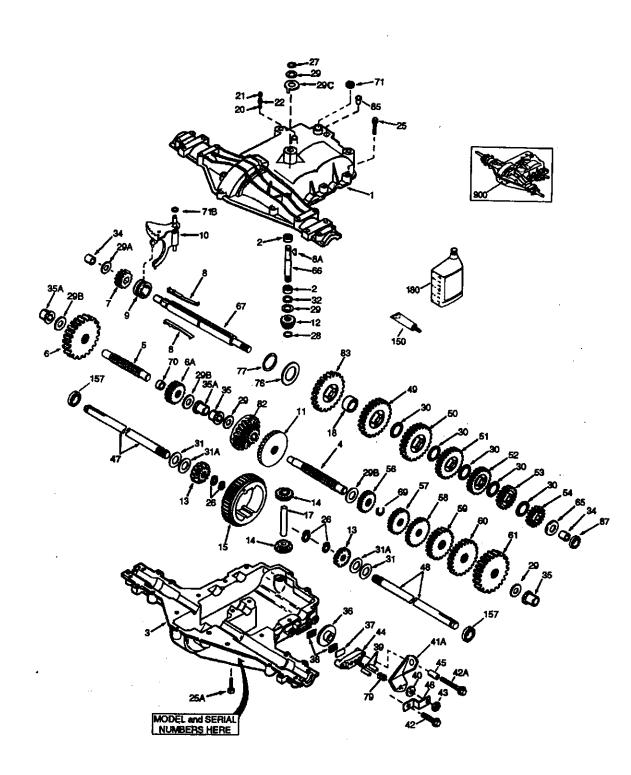
122052X

Spacer, Retainer

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164961	Mower Deck Assembly, 42"	58	140086	
2	STD533107	Bolt Rdhd 5/16-18 x 3/4	59	141043	Spring, Torsion Brakes Guard, TUV Idler
3	138017	Bracket Assembly, Sway Bar,	67	162113	Knob Custom Oval
		Front	68	144200	V-Belt
4	138440	Bracket Assembly, Sway Bar	71	142427	· ·
5	STD624008	Retainer Spring	72	131870	Rod, Clutch, Primary, with Nibs Spring, Return
6	130832	Arm, Suspension, Rear	73	127847	Arm, Clutch, Secondary
8	850857	Bolt, Hex 3/8-24 x 1.25 Grade 8	74	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
9	STD551137	Washer, Lock 3/8	75	12000029	Ring, Klip
10	140296	Washer, Hardened	76	128903	Bolt, Shoulder 3/8-16 UNC x
11	134149	Blade, Mulching		_	1.44
12	129895	Bearing, Ball	77	127845	Keeper, Spring
13	137645	Shaft Assembly, Mandrel,	78	160570	Lever Asm. Clutch Pri Plm STLT
		Vented (Includes Key	79	127498	Bushing, Large, Brass
14	100774	Number 12)	80	153701	Spring, Mower Clutch
15	128774	Housing, Mandrel, Vented	81	73350600	Nut, Hex Jam 3/8-16 Unc
16	110485X	Bearing, Ball, Mandrel	82	142028	Trunnion, Adj.
17	140329	Stripper, Vented Mower Deck	83	120958X	Washer Sintered
18	72110610 72140505	Bolt, Carriage 3/8-16 x 1-1/4	84	156084	Keeper Belt Idler
19		Bolt, Carriage 5/16-18 x 5/8	85	72140620	Bolt Carriage 3/8-16 x 2-1/2
20	132827 159770	Bolt, Shoulder	92	STD541437	Nut Lock 3/8-16
21	STD541431	Baffle, Vortex	101	136420	Mulcher Cover
22	134753	Nut Crownlock 5/16-18 UNC	102	71161010	Screw
23	131267	Stiffener Bracket	103	19061216	Washer #10
24	105304X	Bracket, Deflector	104	STD551110	Washer, Lock #10
25	123713X	Cap, Sleeve	105	160793	Latch Assembly, Bagger
26		Spring, Torsion, Deflector	106	2029J	Nut, Weld
27	110452X 130968	Nut, Push	111	155197	Bracket, Gauge, Wheel L.H.
28	19111016	Shield, Deflector	112	155198	Bracket, Gauge, Wheel R.H.
20	19111016	Washer 11/32 x 5/8 x 16 Gauge	113	17490512	Screw Thdrol 5/16-18 x 3/4
29	131491	Rod, Hinge	114	STD541431	Nut, Hex, Keps 5/16-18 UNC
30	157722	Screw Thdrol Washer Head	115	72110504	Bolt, Carriage 5/16 UNC x 1/2
31	129963	Washer, Spacer	116	4898H	Bolt, Shoulder
32	153535	Pulley, Mandrel	117	165746	Wheel, Gauge
33	137266	Nut, Toplock, Flanged	118	73930600	Nut, Centerlock 3/8-16
34	STD533717	Bolt Rdhd 3/8-16 x 1-3/4	119	STD551037	Washer 3/8 x 7/8 x 14 Gauge
35	133835	Fastner, Christmas Tree	121	143723	Bracket
36	131494	Pulley, Idler, Flat	128	153390	Washer Felt
37	STD551037	Washer 13/32 x 13/16 x 16	129	19131312	Washer 13/32 x 13/16 x 12 Ga.
40	STD541437	Gauge Nut Crownlock 3/8-16 UNC	130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5
41	133551	Rod, Pivot, with Nibs	131	STD533710	Bolt, RDHD SQNK 3/8-16
43	140083	Rod, Clutch, Secondary, with Nibs	132	19132203	UNC x 1 Spacer Washer
44	140088	Guard, Mandrel, L.H.	141		13/32 I.D. x 1-3/8 O.D. x 1/4
45	STD624003	Retainer Spring1*		6266H	Washer Thrust .75 x 1.230
46	137729	Screw, Thd. Roll 1/4-20 x 5/8		130794	Mandrel Assembly (Includes
48	133944	Washer, Hardened			Key Numbers 8-10, 12-15, 31 and 32)
49	155066	Roller Assembly, Cam Follower		164963	Mower Deck, Complete (Stan-
50	131340	Bolt, Shoulder #10-24 Grade 5		.0.000	dard Deck, Order Separately
51	STD541410	Locknut #10-24			Mulcher Plate and Gauge
52	139888	Bolt, Shoulder 5/16-18 UNC		e.	Wheel Components, Key Nos.
53	131845	Arm Assembly, Pad, Brake			101-106 and 111-121)
54	133943	Washer, Hardened			•
55	155046	Arm, Idler	NOTE:	All component	dimensions given in U.S.inches
56	122052Y	Spacer Potoings		1 inch = 25.4 r	nm

1 inch = 25.4 mm

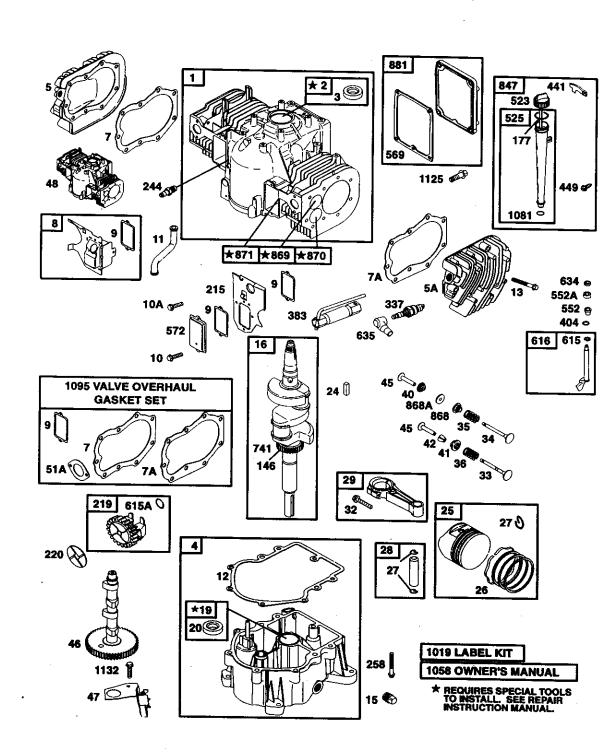
TRACTOR - - MODEL NUMBER 917.270814 PEERLESS TRANSAXLE-MODEL NUMBER 206-545C



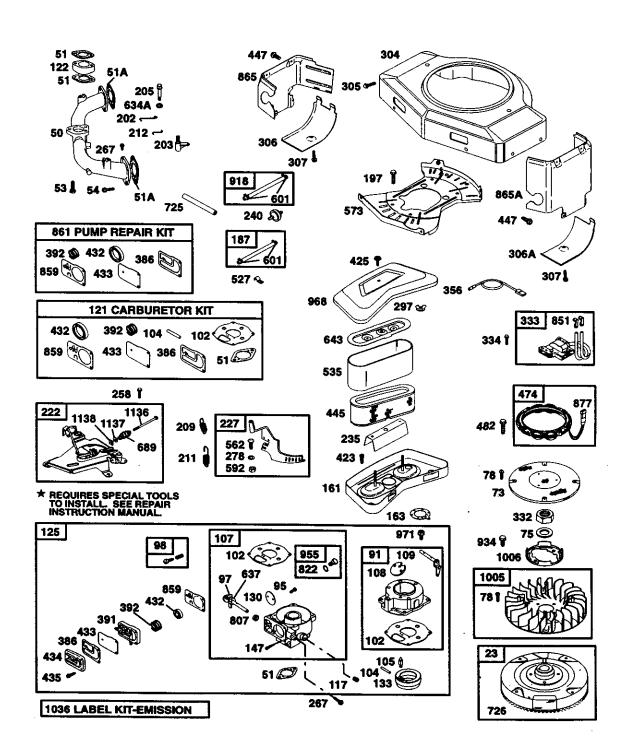
TRACTOR - - MODEL NUMBER 917.270814 PEERLESS TRANSAXLE-MODEL NUMBER 206-545C

KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	772147	Transaxle Cover	44.4	7000	
2	780086A	Needle Bearing 5/8"	41A	790079	Brake Lever
3	770128	Transaxle Case	42	792073A	Screw 1/4 - 20 x 1-1 /4"
4	776395	Countershaft	42A	792085A	Screw 1/4 - 20 x 2 1/4"
5	776409	Output Shaft	43	792075	Locknut 5 / 16 - 24
6	778364	Spur Gear (38 teeth)	44	790025	Brake Pad Holder
6A	778369	Spur Gear (35 teeth)	45 46	786066	Spacer .2625 x 1.0
7	778330	Spur Gear (15 teeth)	46	786086	Brake Lever Bracket
8	792180	Shift Key	47	774690	Axle (11-15 / 16" Long)
8A	792047	Woodruff Kev #9	48	774691	Axle (16 - 1 / 2" long)
9	784352	Shift Collar	49	778356	Spur Gear (29 teeth)
10	784378	Shift Rod & Fork	50	778338	Spur Gear (27 teeth)
11	778334		51	778354	Spur Gear (23 teeth)
12	778309	Bevel Gear (30 teeth)	52	778352	Spur Gear (19 teeth)
13	778368	Input Bevel Pinion (13 teeth)	53	778350	Spur Gear (16 teeth)
13	110300	Bevel Gear (13 teeth) (Include. 14)	54	778346	Spur Gear (15 teeth)
14	778368	Bevel Pinion (13 teeth) (In-	56	778355	Spur Gear (11 teeth)
17	770000	clude. 13)	57	778337	Spur Gear (13 teeth)
15	778370	Ring Gear (43 teeth)	58	778353	Spur Gear (17 teeth)
17	786188	Drive Pin	59	778351	Spur Gear (21 teeth)
18	786102	Spacer 1.130 X .695	60	778349	Spur Gear (24 teeth)
20	792077A	Ball 5/16" dia	61	778345	Spur Gear (25 teeth)
21	792078	Set Screw 3/8 - 16 x 3/8"	65	780189	Flat Washer .563 ID x .062W
22	792079	Spring .310 OD x .625 L	66	776422	Input Shaft
25	792073A	Screw 1/4 - 20 x 1-1/4"	67	776396	Shifter & Brake Shaft
25A	792177	Screw 1/4-20 x 1-3/8"	69	792170	Retaining Ring
26	792125	Retaining Ring (pkg of 2)	70	786187	Spacer .890
27	792035	Retaining Ring	71	788069	Square Cut Ring
28	788040	Retaining Ring	71B	788092	"O" Ring
29	780072	Thrust Washer .627 ID x .031W	76	780090	Flat Washer 1.128 ID x .058W
29A	780160	Thrust Washer .762 ID x .031W	77	788078A	Inverted Retaining Ring
29B	780051	Thrust Washer .762 ID x .031W	79	792144	Spring .430 OD x .5000 L
29C	780199	Anti-Rotation Washer ,632	82	778333	Bevel & Spur Gear (30 & 13
30	780108	Cup Washer 1.127 ID x .032W	00		teeth)
31	780001	Flat Washer .750 ID x .056W	83	778338	Spur Gear (27 teeth)
٠.	100001	(Use As Needed)	85	792154	Oil Fill Plug
31A	780195	Flat Washer .750 ID x .062W	87	788089A	Oil Seal 9 / 16"
32	788083	Oil Seal 5/8"	150	788093A	Liquid Gasket RTV Silicone
34	780194	Bushing .563	157	788088A	Oil Seal 3 /4*
35	780193	Flanged Bushing 5 / 8" ID	180	730229A	Gear Oil 80W90
35A	780197	Flanged Bushing .751	900	794712	Replacement MST - 206-545C
36	790075	Brake Disk			Transaxle
37	790007	Brake Pad Plate			
38	799021	Brake Pad (pkg of 2)		AN	
39	786026	Dowel Pin	NUIE:	All componen	t dimensions given in U.S. inches
40	792076A	Flat Washer .312 ID x .059W		1 inch = 25.4	mm
		TIWOTO IL IL A .VOST			

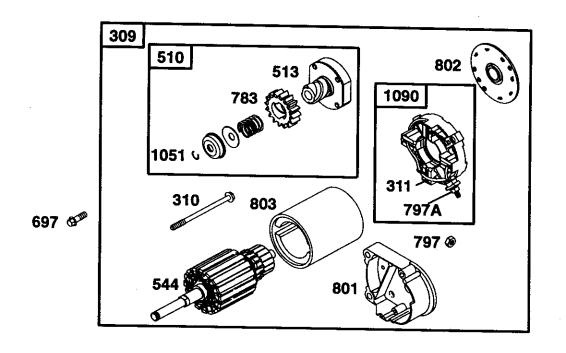
TRACTOR - - MODEL NUMBER 917.270814 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

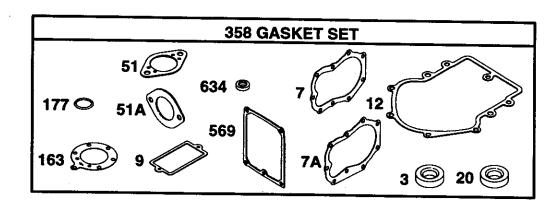


TRACTOR - - MODEL NUMBER 917.270814 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1



TRACTOR - - MODEL NUMBER 917.270814 BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1





BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

NO. NO. DESCRIPTION 1 498583 Cytinder Assembly 3 91086 Seal-Oil 105 89309 Pin-Float Hinge 4 493004 Sump-Engine 107 893482 Pin-Float Hinge 5 214511 Head-Cylinder #1 108 893505 Pin-Float Hinge 7 271987 Head-Cylinder #1 108 893505 Pin-Float Hinge 8 49578 Pin-Float Hinge 9 893505 Pin-Float Hinge 9	KEY PART NO. NO.	DESCRIPTION		PART		DESCRIPTION
2 399255 Büshing/Seal Kit		·	NO.	NO.		DESCRIPTION
3 91086 Sump-Engline 105 692078 € Valve-Float Needle 2 14518 Head-Cylinder #1 108 693505 Valve-Choke 3 Valve-Choke 4 945754 Head-Cylinder Head #1 108 693505 Valve-Choke 5 Valve-Choke 5 Valve-Choke 9 27803 Head-Cylinder Head #1 17 693538 Jet-Main (High Attitude) Carburetor Kit 5 Valve-Choke 5 Valve-Choke 1 Valve-Choke 1 Valve-Choke 5 Valve-Choke 5 Valve-Choke 1 Valve-Choke 1 Valve-Choke 5 Valve-Choke 1 Valve-Choke 5 Valve-Choke 1 Valve-Choke 1 Valve-Choke 5 Valve-Choke 5 Valve-Choke 5 Valve-Choke 5 Valve-Choke 1 Valve-Choke 5 Valve-Choke 5 Valve-Choke 5 Valve-Choke 1 Valve-Choke 5 Valve-Thorite 6 Valve-Thorite 6 Valve-Thorite 7 Valve-Thorite 8 Valve-Choke 7 Valve-Thorite 7 Valv					•	Gasket-Carburetor Body
4 493304 Sump-Engline 5 214518 Head-Cylinder #1 108 693505 Valve-Choka 7 271867 ★ Gasket-Cylinder Head #1 8 49575 ★ Gasket-Cylinder Head #1 9 49875 ★ Gasket-Cylinder Head #2 8 19575 ★ Gasket-Cylinder Head #2 9 27803 ★ Gasket-Cylinder Head #2 109 49430 Screw (Breather Assembly) (Cylinder #1) 11 280225 Screw (Breather Assembly) (Cylinder #1) 12 281411 12 273390 ★ Gasket-Grankcase (O05* Thick) 12 69350 271188 ★ Gasket-Crankcase (O05* Thick) 161 496599 Serew (Cylinder Head) 271188 ★ Gasket-Crankcase (O05* Thick) 161 496599 Serew (Cylinder Head) 13 94565 Screw (Cylinder Head) 177 271170 ★ Seal-O-Ring 1910 Delay 1						Pin-Float Hinge
5 2 14517 Head-Cyfinder #1 Head-Cyfinder #2 72 71867 A 24198 Head-Cyfinder #2 119 693498 Snaft-Choke 495754	1.222				•	Valve-Float Needle
5A 214518 Head-Cylinder #22 109 693498 JSast-Choke 7 271868 ** \$\phi\$-\$\text{casket-Cylinder Head #1} 17 693538 Jet-Main 7 271868 ** \$\phi\$-\$\text{casket-Cylinder Head #2} 17 693538 Jet-Main 9 27803 ** \$\phi\$-\$\text{casket-Cylinder Head #2} 17 693500 Jet-Main (High Altitude) 9 27803 ** \$\phi\$-\$\text{casket-Breather} 122 281411 Spacer 10 94382 Screw (Breather Assembly) (Sold 11 28022 Tub-Breather 273390 ** \$\text{casket-Breather} 222 281411 Spacer 12 281411 Spacer 13 693500 Jet-Main (High Altitude) 14 28025 Tub-Breather 15 94239 Color Tiblek, Std.) 16 94196 17 271188 ** \$\text{casket-Crankcasse} (.005 Thick) 18 94565 Screw (Cylinder Head) 18 94565 Screw (Cylinder Head) 19 99264 Bushing						Body Assembly-Lower
7 271867 ★ Gaskel-Cylinder Head #1 7 271868 ★ Gaskel-Cylinder Head #2 8 495754 Broather Assembly (Cylinder #1) 121 491539 9 27803 ★ Gaskel-Breather 122 81141 Spacer Carburetor Kill Advances (April Markel						
7A 271868 4 963s4cl-Cylinder Head #2 693500 Jet-Main (High) Altitude) 8 49354 8 79352 8 Preather Assembly (Cylinder #1) 9 27803 4 94382 Screw (Breather Assembly) 125 693479 Carburetor Kit Spacer 273990 * Gasket-Crankcase (16 5 Thick, Std.) 273990 * Gasket-Crankcase (16 94196 (17 Thick, Std.) 271188 * Gasket-Crankcase (100° Thick) 147 693508 Jet-Pitol 271189 * Gasket-Crankcase (100° Thick) 153 94256 Screw (Cylinder Head) 177 271170 * Gasket-Crankcase (100° Thick) 153 94256 Screw (Cylinder Head) 177 271170 * Seal-O-Ining 177 271170 * Seal-O-Ining 187 299145 Screw (Cylinder Head) 179 95063 Screw (Back Park 200° 291675 * Seal-O-I 20 20 20 20 20 20 20 20 20 20 20 20 20						
8 495754 Breather Assembly (Cylinder #1) 121 491539 Carburetor Kit 19 27193 ★ 4 Gaskel-Breather 122 81141 Spacer 10 494382 Screw (Breather Cover) 130 693479 Carburetor 1280225 Tuthe-Breather 133 693504 Valve-Throttle 1280225 Tuthe-Breather 133 693504 Valve-Throttle 1280225 Tuthe-Breather 133 693504 Valve-Throttle 19 19 19 19 19 19 19 19 19 19 19 19 19			117			
9 27803 ★Gaskel-Breather 122 281411 Spacer 10 94382 Screw (Breather Assembly) 125 693479 Carburetor 11 280225 Tube-Breather 133 693512 Float-Carburetor 12 273390 ★ Gaskel-Crankcase (.005 Thick) 147 693508 Let-Pilot 271188 ★ Gaskel-Crankcase (.005 Thick) 147 693508 Let-Pilot 271189 ★ Gaskel-Crankcase (.005 Thick) 161 496599 ★ Let-Pilot 271189 ★ Gaskel-Crankcase (.005 Thick) 161 496599 ★ Let-Pilot 13 94565			121			
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494553 Keeper-Valve (Ref. No. 42)) 34 691302 Valve-Intake 35 65906 Spring-Valve (Intake) 35 65906 Spring-Valve (Intake) 36 26828 Spring-Valve (Exhaust) 307 94930 Screw (Cylinder Shield) 40 221596 Retainer-Valve (Exhaust) 309 497596 Motor-Starter 41 292260 Retainer-Valve (Exhaust) 42 494553 Keeper-Valve 43 11 497608 Brush Set 45 261368 Tappet-Valve 46 214487 Camshaft 47 393415 Slinger-Oil 48 498542 Short Block 49 498542 Short Block 50 213290 Manifold-Intake 51 A 270884 ★●Gasket-Intake 51 A 270884 ★●Gasket-Intake 51 Screw (Carburetor) 51 93208 Screw (Carburetor) 52 93208 Screw (Carburetor) 53 691438 Screen-Rotating 54 693483 Body Assembly-Upper 55 690718 Screw (Throttle Valve) 56 693485 Shaft-Throttle		Screw (Connecting Rod)				
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36						
40 221596 Retainer-Valve (Exhaust) 41 292260 Retainer-Valve (Exhaust) 42 494553 Keeper-Valve 45 261368 Tappet-Valve 46 214487 Camshaft 47 393415 Slinger-Oil 48 498542 Short Block 50 213290 Manifold-Intake 51A 270884 ★◆Gasket-Intake 51A 270884 ★◆Gasket-Intake 51A 93208 Screw (Carburetor) 54 93208 Screw (Intake Manifold) 73 691438 Screen-Rotating 75 222511 Washer (Flywheel) 76 693483 Body Assembly-Upper 97 693485 Short Block Screw (Throttle Valve) 97 693485 Shaft-Throttle						
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42 494553 Keeper-Valve 311 497608 Brush Set 45 261368 Tappet-Valve 332 230674 Nut (Flywheel) 46 214487 Camshaft 333 394891 Armature-Magneto 47 393415 Slinger-Oil 334 94731 Screw (Magneto Armature) 48 498542 Short Block 337 802592 Plug-Spark 50 213290 Manifold-Intake 356 494705 Wire-Stop 51 271412 ★●Gasket-Intake 51A 270884 ★◆Gasket-Intake 51A 270884 ★◆Gasket-Intake 51A 93208 Screw (Carburetor) Included in Gasket Set, Ref Number 358. 53 93970 Screw (Carburetor) Included in Carburetor Kit, Ref Number 121. 54 93208 Screw (Intake Manifold) Included in Value Overhaul Kit, Ref Number 1095. 75 222511 Washer (Flywheel) 1095. 76 691134 Screw (Flywheel Fan) 91 693483 Body Assembly-Upper 95 690718 Screw (Throttle Valve) Shaft-Throttle		Retainer-Valve (Exhaust)				Bolt (Starter Motor)
45 261368 Tappet-Valve 332 230674 Nut (Flywheel) 46 214487 Camshaft 333 394891 Armature-Magneto 47 393415 Slinger-Oil 334 94731 Screw (Magneto Armature) 48 498542 Short Block 337 802592 Plug-Spark 50 213290 Manifold-Intake 356 494705 Wire-Stop 51 271412 ★●Gasket-Intake 51A 270884 ★◆Gasket-Intake 53 93970 Screw (Carburetor) 54 93208 Screw (Intake Manifold) 73 691438 Screw (Intake Manifold) 73 691438 Screw (Intake Manifold) 74 693483 Screw (Flywheel) 75 222511 Washer (Flywheel) 76 693483 Body Assembly-Upper 97 693485 Shaft-Throttle 332 230674 Nut (Flywheel) 332 230674 Nut (Flywheel) 333 394891 Armature-Magneto 334 94731 Screw (Magneto Armature) 34 94731 Screw (Magneto Armature) 35 494705 Wire-Stop ★ Included in Gasket Set, Ref Number 358. ★ Included in Carburetor Kit, Ref Number 121. ★ Included in Value Overhaul Kit, Ref Number 1095. ★ Included in Fuel Pump Kit, Ref Number 861 NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm		Keeper-Valve		10000		
47 393415 Slinger-Oil 334 94731 Screw (Magneto Armature) 48 498542 Short Block 337 802592 Plug-Spark 50 213290 ★●Gasket-Intake 51 271412 ★●Gasket-Intake 51A 270884 ★◆Gasket-Intake 53 93970 Screw (Carburetor) 54 93208 Screw (Intake Manifold) 57 691438 Screen-Rotating 1095. 75 222511 Washer (Flywheel) 76 691134 Screw (Flywheel Fan) 77 693483 Body Assembly-Upper 9693485 Shaft-Throttle 334 94731 Screw (Magneto Armature) 337 802592 Plug-Spark 356 494705 Wire-Stop ★ Included in Gasket Set, Ref Number 358. Included in Carburetor Kit, Ref Number 121. ★ Included in Value Overhaul Kit, Ref Number 1095. ★ Included in Fuel Pump Kit, Ref Number 861 NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm						Nut (Flywheel)
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50 213290						
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51A 270884 ★◆Gasket-Intake 53 93970 Screw (Carburetor) 54 93208 Screw (Intake Manifold) 73 691438 Screen-Rotating 75 222511 Washer (Flywheel) 78 691134 Screw (Flywheel Fan) 91 693483 Body Assembly-Upper 95 690718 Screw (Throttle Valve) 97 693485 Shaft-Throttle ★ Included in Gasket Set, Ref Number 358. ★ Included in Carburetor Kit, Ref Number 121. ★ Included in Value Overhaul Kit, Ref Number 1095. ★ Included in Fuel Pump Kit, Ref Number 861 NOTE: All component dimensions given in U.S. inches 1 inche 25.4 mm			356	494705		wire-Stop
53 93970 Screw (Carburetor) 54 93208 Screw (Intake Manifold) 73 691438 Screen-Rotating 75 222511 Washer (Flywheel) 78 691134 Screw (Flywheel Fan) 91 693483 Body Assembly-Upper 95 690718 Screw (Throttle Valve) 97 693485 Shaft-Throttle ■ Included in Carburetor Kit, Ref Number 121. ■ Included in Value Overhaul Kit, Ref Number 1095. ■ Included in Fuel Pump Kit, Ref Number 861 ■ NOTE: All component dimensions given in U.S. ■ inches 1 inches 1 inches 25.4 mm			•	Included	in (Sasket Set. Ref Number 250
54 93208 Screw (Intake Manifold) 73 691438 Screen-Rotating 75 222511 Washer (Flywheel) 78 691134 Screw (Flywheel Fan) 91 693483 Body Assembly-Upper 95 690718 Screw (Throttle Valve) 97 693485 Shaft-Throttle ■ Included in Value Overhaul Kit, Ref Number 1095. + Included in Fuel Pump Kit, Ref Number 861 NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm			_			
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91 693483 Body Assembly-Upper NOTE: All component dimensions given in U.S. 95 690718 Screw (Throttle Valve) inches 1 inch = 25.4 mm Shaft-Throttle	78 691134					•
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		Screw (Throttle Valve)	inch	es 1 inch :	= 25	5.4 mm
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BRIGGS & STRATTON ENGINE-MODEL NUMBER 461707, TYPE NUMBER 0145-E1

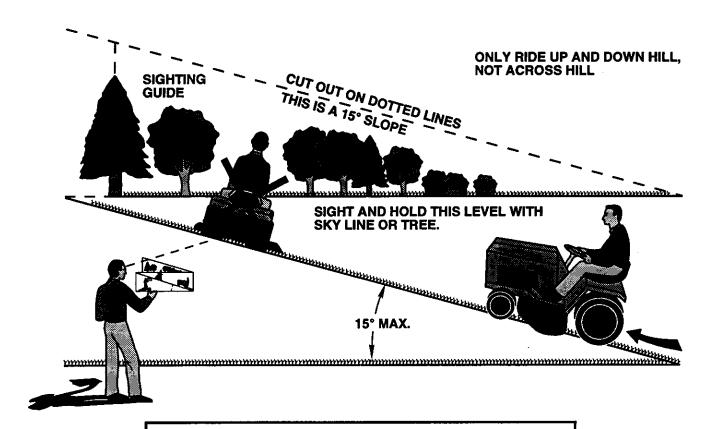
KEV	PART						
NO.	NO.		DESCRIPTION		PART		
				NO.	NO.		DESCRIPTION
358	495868		Gasket Set	802	497607		Cap-End
383	89838	_	Wrench-Spark Plug	803	497604		Housing-Starter
386	693490	+	Gasket-Pump	807	693511		Spacer
391	693487	_	Body-Pump	822	693497		Washer-Seal (Throttle Shaft)
	693491	+	Spring-Pump Diaphragm	847	495715		Dipstick/Tube Assembly
404 423	223882		Washer (Governor Crank)	851	493880		Terminal-Cable
	94674		Screw (Air Cleaner Base)	859	693488	•+	Diaphragm-Fuel Pump
	94823 693492		Screw (Air Cleaner Cover)	861	393397		Kit-Fuel Pump
	693489	-	Cap-Spring	865	224774		Cover-Air Guide
434	693493	U T	Diaphragm-Fuel Pump Cover-Diaphragm		224775		Cover-Air Guide
	693494		Screw (Diaphragm Cover)	868			Seal-Valve
441	222875		Bracket-Oil Fill		273312		Seal-Valve
445	394019		Filter-Air	869			Seat-Valve (Intake)
447	93343		Screw (Air Guide Cover)	870			Seat-Valve (Exhaust)
•	94882		Screw (Oil Fill Bracket)	871	261961		Bushing-Guide (Exhaust)
474	93474		Alternator		231218		Bushing-Guide (Intake)
482	93621		Screw (Alternator)	877	393456		Wire-Alternator
-	497606		Drive-Starter	881	495901		Plate-Cover
513	398003		Clutch-Drive	918	393815		Hose-Vacuum (Cylinder-To-
523	494947		Dipstick				Impulse Pump)(Cut to Required
525	495348		Tube-Oil Fill	024	04607		Length)
527	223167		Clamp-Tube	934 955	94627 693513		Screw (Fan Retainer)
535	272490		Filter-Air	968	225008		Plug-Carburetor
544	97603		Armature-Starter	971	805540		Cover-Air Cleaner
552	262332		Bushing (Governor Crank)	071	000040		Screw (Upper Body To Lower
	262331		Bushing (Governor Crank)	1005	498157		Body) Fan-Flywheel
	93853		Bolt-Carriage (Governor Lever)		224901		Retainer-Fan
569	272645	*	Gasket-Base		496726		Label Kit
572	222892		Cover-Breather (Cylinder #2)		499382		Label Kit-Emission
	491304		Plate-Back		263080		Ring-Retaining
592	92278		Nut (Governor Lever)		273688		Owner's Manual
601	95162		Clamp-Hose	1081	280860	*	Seal-O-Ring
615	94296		Retainer (Governor Crank)	1090	497605		Retainer-Brush
	93898 491530		Retainer-Governor Shaft	1095	498047		Gasket Set-Valve Overhaul
634	491287	_	Crank-Governor Seal-Governor Shaft		94724		Screw (Cover Plate)
	271013	×	Washer-Foam		94675		Screw (Oil Slinger)
	66538		Boot-Spark Plug		94297		Screw (Governor, Control Rod)
637	693510		Washer-Seal	1137	220680		Washer (Governor, Control
± 1	496700		Retainer-Air Filter				Rod)
689	262337		Spring-Friction	1138	94298		Nut (Governor, Control Rod
	93585		Screw (Drive Cap)		460707-014	45-E	Replacement Engine
725	280866		Shield-Heat		formula and the	<u> </u>	tor Oct Burkler
726	91362		Gear-Ring	*	inciuded (n	Gas	ket Set, Ref Number 358.
741	262989		Gear-Timing	● .	included in	Can	ouretor Kit, Ref Number 121.
	693059		Gear-Starter	•	1095.	valu	e Overhaul Kit, Ref Number
797	94010		Nut (Starter Terminal)	+		Enal	Dump Kit Dof Number 004
	693167		Nut (Starter Terminal)	~	" ICIUGEU #1	r-u t	Pump Kit, Ref Number 861
801	394860		Cap-Drive	NOTE	E: All compo	onen	t dimensions given in U.S.

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

SERVICE NOTES

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





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

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

1-800-4-MY-HOMESM (1-800-469-4663) Para pedir servicio de reparación a domicilio 1-800-676-5811

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

For the repair or replacement parts you need:
Call 6 am - 11 pm CST, 7 days a week
PartsDirectsM
1-800-366-PART (1-800-366-7278)

Para ordenar piezas con entrega a domicilio 1-800-659-7084

For the location of a Sears Parts and Repair Center in your area:

Call 24 hours a day, 7 days a week 1-800-488-1222

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement:

Call 9 am - 5 pm, Monday - Saturday 1-800-827-6655



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