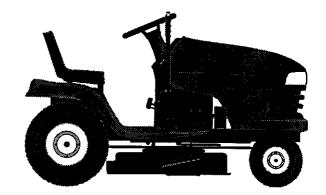
Owner's Manual

CRAFTSMAN°

20 HP ELECTRIC START 48" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

Model No. 917.272231

- Safety
- Assembly
- Operation
- Maintenance
- Repair Parts
- itepan i arts



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

CAUTION:

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

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

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

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WARRANTY

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

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

LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

SAFETY RULES

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone.
 Do not operate the mower without either the entire grass catcher or the guard in place.
- Šlow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
 Stop engine before removing grass
- catcher or unclogging chute.
 Mow only in daylight or good artificial
- light. • Do not operate the machine while
- under the influence of alcohol or drugs.
 Watch for traffic when operating near or
- crossing roadways. • Use extra care when loading or
- 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.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn.
 Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

DO:

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

DO NOT:

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

SAFETY RULES

III. CHILDREN

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

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

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

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



- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers or children even with the blades off.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.

SAFETY RULES

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- 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.

ALook for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

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

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

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

AWARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

AWARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (PI-SF-SJ):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER: 4.5 PINTS W/OFILTER: 4.0 PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
GROUND SPEE (MPH):	D 1st 1.2 2nd 1.5 3rd 2.4 4th 3.5
	5th 4.8 6th 5.3 REVERSE: 1.5
TIRE PRESSUR	EFRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	45–55 FT. LBS.

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

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

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REPAIR AGREEMENT

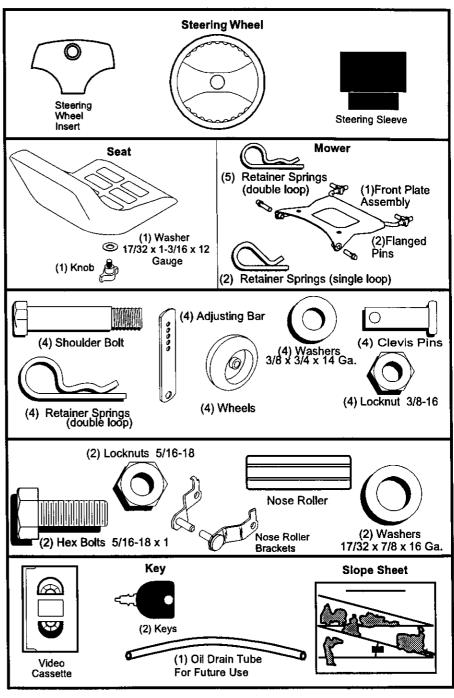
A Repair Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

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

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

UNASSEMBLED PARTS



ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" Wrench (1) 3/4" Socket w/
- (1) 1/2" wrench 🌕 drive ratchet
- (1) Utility knife (1) Pliers
- (1) Tire pressure gauge

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

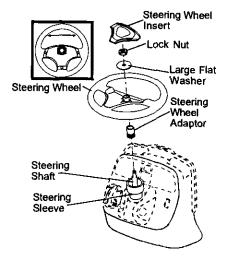
- 1. Remove all accessible loose parts and parts boxes from shipping carton.
- 2. Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
- 3. Remove mower and package materials.
- 4. Check for any additional loose parts or boxes and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

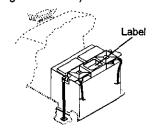
- 1. Remove lock nut and large flat washer from steering shaft.
- 2. Position front wheels of the tractor so they are pointing straight forward.
- 3. Slide the steering sleeve over the steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- 5. Secure steering wheel to steering shaft with lock nut and large flat washer previously removed. Tighten securely.
- 6. Snap steering wheel insert into center of steering wheel.
- 7. Remove protective materials from tractor hood and grill.

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



HOW TO SET UP YOUR TRACTOR CHECK BATTERY

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



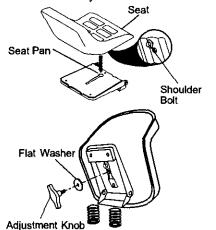
INSTALL SEAT

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Adjust seat before tightening adjustment knob.

 Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly.of seat to tractor.

- Pivot seat upward and remove from the cardboard packing, Remove the cardboard packing and discard.
- 3. Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- 5. Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
- Lower seat into operating position and sit in 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.
- 9. Raise seat and tighten adjustment knob securely.



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

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- 2. Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- 4. Roll tractor forward off skid.

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

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

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

10. Turn ignition key to "OFF" position.

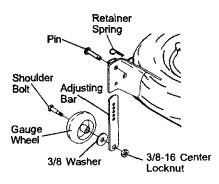
Continue with the instructions that follow.

ASSEMBLE GAUGE WHEELS TO MOWER DECK

The gauge wheels are designed to keep the mower deck in proper position when operating mower. Be sure they are properly adjusted to ensure optimum mower performance.

- Slide gauge wheel bar down into bracket channel, Be sure that gauge wheel bar aligning holes are on top. Assemble gauge wheels as shown using shoulder bolts, 3/8 washers and 3/8-16 center locknuts and tighten securely.
- 2. For ease of mower to tractor assembly, raise gauge wheels to highest position and retain with clevis pins and spring retainers.

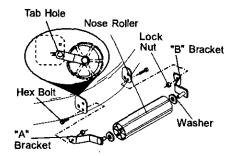
NOTE: Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.



TO ATTACH NOSE ROLLER

 Position brackets, 17/32 x 7/8 x 16 gauge washers, and nose roller between deck mounting brackets as shown. Be sure to position brackets on correct side, as shown.

 Install hex bolts and lock nuts as shown. Tighten hardware securely.
 NOTE: Be sure bracket tabs are positioned in tab holes in deck brackets.



INSTALL MOWER AND DRIVE BELT

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- Cut and remove ties securing antisway bar and belts. Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with deflector shield to right side of tractor.

IMPORTANT: Check belt for proper routing in all mower pulley grooves.

- 3. If equipped, turn height adjustment
- knob counterclockwise until it stops.4. Lower mower linkage with attachment lift control.
- Be sure belt tension rod is in disengaged position.
- Install belt into electric clutch pulley groove.
 Place the suspension arms on
- Place the suspension arms on outward pointing deck pins. Retain with double loop retainer spring with loops up as shown.
- Install front plate assembly to tractor suspension brackets and retain with single loop retainer springs as shown.



 Position front plate assembly between front mower brackets. Raise deck and plate assembly to align holes and insert flanged pins. Secure pins with double loop retainer springs between the plate assembly and mower brackets.

NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower side-to-side to give space between plate and mower brackets. IMPORTANT: Check belt for proper routing in all mower pulley grooves.

10. Engage belt tension rod by pushing rod into locking bracket.

A CAUTION: Belt tension rod is spring loaded. Have a tight grip on rod and engage slowly.

- 11. Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.
- 13. Raise deck to highest position.
- 14. Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

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 MOWER LEVELNESS

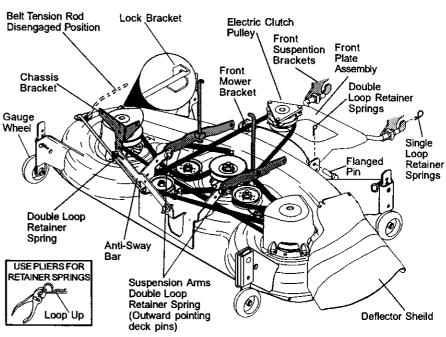
For best cutting results, mower should be property leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, 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 property 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 tothord prevention.
- ✓ 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.



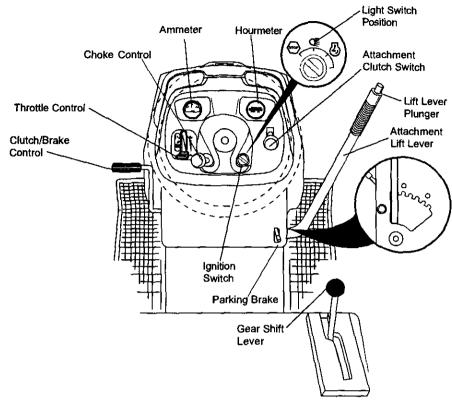
DANGER, KEEP HANDS AND FEET AWAY

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(Automatic Models only)

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

THROTTLE CONTROL - Used to control engine speed.

CHOKE CONTROL - Used when starting a cold engine.

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

starting the engine. 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 (-). PARKING BRAKE: Locks clutch/brake

HOURMETER - Indicates hours of operation.



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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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

Attachment Clutch Push-In to Switch Pull Out To "Disengaged" Choke 'Engage Contro Ø Throttle ð Control Ignition Gear Shift "Brake" ٤ev Lever Position 0 De R Parking Brake Clutch/Brake "Engaged" Position Pedal "Drive "Disengaged" Position Position

STOPPING

MOWER BLADES -

- To stop mower blades,move attachment clutch switch 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.

TO USE THROTTLE CONTROL

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

TO USE 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.
- 2. Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

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

TO ADJUST MOWER CUTTING HEIGHT

The position of the attachment lift lever determines the cutting height.

- Grasp lift lever.
- Press plunger with thumb and move lever to desired position.



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

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

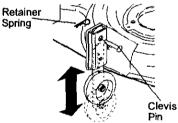
TO ADJUST GAUGE WHEELS

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

NOTE: Be sure tractor is on a flat level surface.

- 1. Lower mower and adjust mower to desired cutting height.
- Remove retainer spring and clevis pin which secure each gauge wheel bar.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pin, Gauge wheels should be slightly off the ground.
- 4. Replace retainer spring into clevis pin.
- 5. Besure all gauge wheels are in the same setting.

IMPORTANT: Be sure to readjust gauge wheels if you change the cutting height of the mower deck.



TO OPERATE MOWER

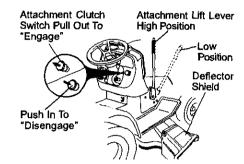
Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- 1. Select desired height of cut,
- 2. Start mower blades by engaging

attachment clutch control. TO STOP MOWER BLADES -

disengage attachment clutch control.

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



TO OPERATE ON HILLS

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

- 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.

NAME ON TANKS SION

TOTRANSPORTRaise 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

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.

- 1. Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/ dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Maintenance section of this manual).
- To change engine oil, see the Maintenance section in this manual.

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30

days to assure fuel freshness. IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting. **AWARNING:** Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

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

TO START ENGINE

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

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

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

6. 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.

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.

using the choke as described above. COLD WEATHER STARTING (50° F and below)

7. 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.

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

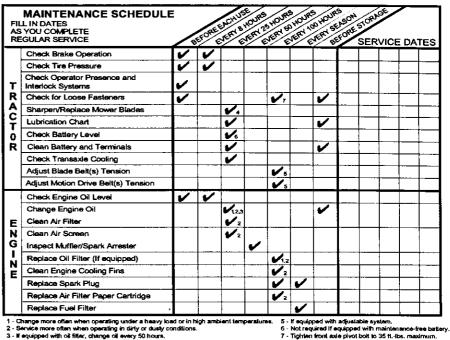
MOWINGTIPS

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower 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.

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CONTRACT V	

MAINTENANCE



- Change more often when operating under a heavy load or in high ambient temperatures. - Service more often when operating in dirty or dusty conditions. - If equipped with of filter, change oil every 50 hours. - Reptace blades more often when mowing in sandy soil. 5.6.7.

GENERAL RECOMMENDATIONS

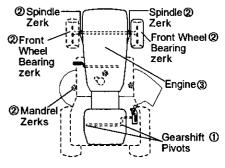
The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your tractor.

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. **BÉFORE ÉACH USE**
- 1. Check engine oil level.
- Check brake operation. 2.
- 3. Check tire pressure.
- Check operator presence and 4.
- interlock systems for proper operation. 5. Check for loose fasteners.

LUBRICATION CHART

Do not overlighten



①SAE 30 or 10w30 Motor Oil

ØGeneral Purpose Grease

③Refer to Maintenance "ENGINE" Section

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



TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

Be sure 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.

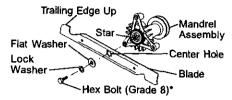
BLADE REMOVAL

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

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

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- 5. Tighten bolt securely (45-55 Ft. Lbs. torgue).

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

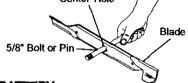
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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. Center Hole / /



BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.

 Recharge at 6-10 amperes for 1 hour. NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- 1.
- Remove terminal guard. Disconnect BLACK battery cable first 2. then RED battery cable and remove battery from tractor.
- 3. Rinse the battery with plain water and dry.
- 4. Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petro-5. leum jelly.
- 6. Reinstall battery (See "REPLACING BATTERY" in the SERVICE AND ADJUSTMENTS section of this manual).

V-BELTS

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

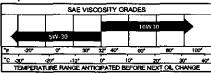
TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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



Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

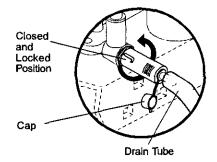
Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level. 21

TO CHANGE ENGINE OIL

Determine temperature range expected before oil change. All oil must meet API service classification SF-SJ.

- 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.
- 2. Remove cap from end of drain valve and install the drain tube onto the fitting.
- 3. Unlock drain valve by pushing inward slightly and turning counterclockwise.
- 4. To open, pull out on the drain valve.
- 5. After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- 6 Remove the drain tube and replace the cap onto to the end of the drain valve.
- 7. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- 8. Use gauge on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

Oil Drain Valve



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.

CLEAN AIR INTAKE/COOLING AREAS

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled. NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

AIR FILTER

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

Service air cleaner more often under dusty conditions.

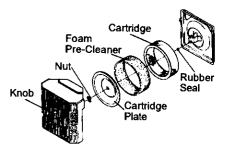
- 1. Loosen knob and remove cover.
- TO SERVICE PRE-CLEANER
- 2. Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water. 3.
- 4. Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in 5 clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

 Replace a dirty, bent, or damaged cartridge.

NOTE: Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge.

- 6. Remove nut and cartridge plate.
- 7. Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- 8. Check rubber seal for damage and proper position around stud. Replace if necessary
- 9. Reassemble air cleaner, cartridge plate, and nut.
- 10. Reinstall air cleaner cover and secure by tightening knob.



ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year. MUFFLER

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

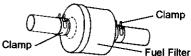
SPARK PLUGS

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 1. plug fuel line sections.
- 2. Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks З. 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 22^{engine life.}



- 2. Place gearshift lever in neutral (N) position.
- 3. Place attachment clutch in "DISENGAGED" position.
- 4. Turn ignition key "OFF" and remove key.
- 5. Make sure the blades and all moving parts have completely stopped.

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

TRACTOR

TO REMOVE MOWER

- Place attachment clutch in "DISEN-GAGED" position.
- 2. If equipped, turn height adjustment knob to lowest setting.
- Lower mower to its lowest position. 3. 4. Disengage belt tension rod from lock bracket.

A CAUTION: Rod is spring loaded. Have a tight grip on rod and release slowly.

- 5. Remove retainer spring holding antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- 6. Remove four retainer springs from front plate assembly and remove plate.
- 7. Remove retainer springs from suspension arms at deck and disengage arms from deck. 8. Raise attachment lift to its highest
- position.
- 9 Slide mower forward and remove belt from electric clutch pulley.
- 10. Slide mower out from under right side of tractor.

TO INSTALL MOWER

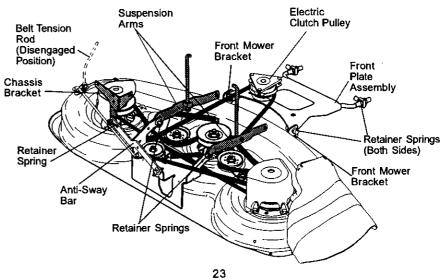
Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

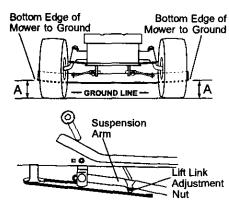
TO LEVEL MOWER HOUSING

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 vour 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 adjust-

ing.

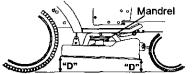
FRONT-TO-BACK ADJUSTMENT

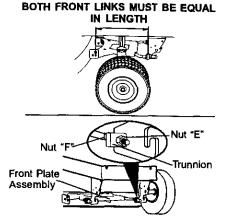
IMPORTANT: Deck must be level side-toside.If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

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.
- 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 tums
- 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.





TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

- Park tractor on a level surface. 1. Engage parking brake.
- Lower mower to its lowest position.
- Disengage belt tension rod from lock З. bracket.

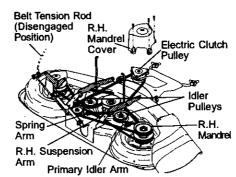
A CAUTION: Rod is spring loaded. Have a firm grip on rod an release slowly.

4. Remove screws from R.H. mandrel

- cover and remove cover. Remove any dirt or grass clippings 5. which may have accumulated around
- mandrels and entire upper deck surface. 6 Disconnect R.H. suspension arm from
- rear deck bracket by removing retainer spring.
- 7. Carefully roll belt over the top of R.H. mandrel pulley,
- Remove belt from electric clutch 8. pulley.
- Remove belt from idler pulleys. 9.
- Check primary idler arm and two 10 idlers to see that they rotate freely.
- 11.Be sure spring is securely hooked to primary idler arm and spring arm.

MOWER DRIVE BELT INSTALLATION

- 12.Install belt in both idlers,
- 13. Install new belt onto electric clutch pulley
- 14 Carefully roll belt into upper groove of R.H. mandrel pulley.
- 15. Carefully check belt routing making sure belt is in the grooves correctly.
- 16. Reconnect R.H. suspension arm to rear deck bracket with retainer spring.
- 17. Reassemble R.H. mandrel cover.
- 18. Engage belt tension rod by pushing rod into locking bracket. 24

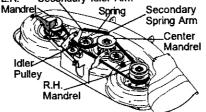


TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove screws from L.H. mandrel cover and remove cover.
- 4. Carefully roll belt off L.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and R.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler pulley to see that they rotate freely.
- 8. Be sure spring is hooked in secondary idler arm and secondary spring arm.
- Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- 10. Carefully roll belt over L.H. mandrel pulley. Make sure belt is in all grooves properly.
- 11. Reinstall L.H. mandrel cover.
- Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- 13. Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

L.H. Secondary Idler Arm



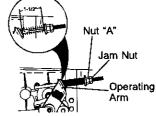
TO ADJUST BRAKE

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

If tractor requires more than six (6) feet stopping distance at high speed in highest gear on a level dry concrete or paved surface, then brake must be adjusted.

- 1. 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 tum 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 a Sears or other qualified service center.

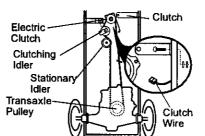
WITH PARKING BRAKE "ENGAGED"



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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- 2. Disconnect clutch wire harness.
- 3. Remove clutch locator.

- 4. Remove belt from stationary idler and clutching idler.
- 5. 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 electric clutch.
- Install new belt by reversing above procedure.



TRANSAXLE GEAR SHIFT LEVER NEUTRAL ADJUSTMENT

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

1. Make sure transaxle is in neutral (N). NOTE: When the tractor rear wheels move freely, the transaxle is in neutral.

- 2. Loosen adjustment bolt in front of the right rear wheel.
- 3. Position the gear shift lever in the neutral (N) position.

4. Tighten adjustment bolt securely. NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position. Gearshift Lever Neutral



TO ADJUST STEERING WHEEL ALIGN-MENT

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

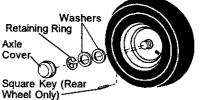
The front wheel toe-in and camber are not adjustable on your tractor. If damage has occurred to affect the front wheel toein or camber, contact your nearest Sears or other qualified service center.

TO REMOVE WHEEL FOR REPAIRS

- 1. Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).

3. Repair tire and reassemble. **NOTE:** On rear wheels only: align grooves in rear wheel hub and axle. Insert square key. Replace washers and snap retaining ring securely in axle groove.
 Replace axle cover.

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



TO START ENGINE WITH A WEAK BATTERY

ACAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries. If your battery is too weak to start the

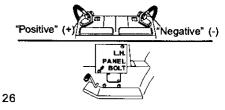
engine, it should be recharged. (See "BATTERY" in the MAINTENANCE section of this manual). If "jumper cables" are used for emergency starting, follow this procedure: IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded 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 -

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

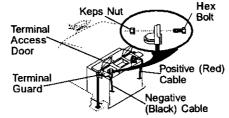


REPLACING BATTERY

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.

- 1. Lift hood to raised position.
- 2. Remove terminal guard.
- 3. Disconnect BLACK battery cable then RED battery cable and carefully remove battery from tractor.
- 4. 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.
- 7. Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and keps nut. Tighten securely
- Close terminal access doors. 8.
- Close hood. 9.



TO REPLACE HEADLIGHT LAMP

CAUTION: When lit, the halogen lamps get extremely hot. Hold lamp assembly by the holder and do not touch the bulb.

- 1. Raise hood.
- 2. Disconnect harness from lamp assembly.
- 3. Rotate counterclockwise and pull lamp assembly out of the hole in the backside of the grill.
- 4. Insert new lamp assembly and rotate clockwise to lock.
- 5. Reconnect harness to lamp assembly.
- 6. Close hood.

INTERLOCKS AND RELAYS

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

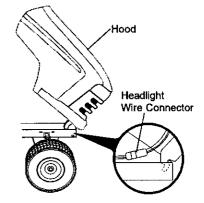
Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 20 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY

- 1. Raise hood.
- Unsnap headlight wire connector, 2.
- Stand in front of tractor. Grasp hood at 3. sides, tilt toward engine and lift off of tractor
- 4. To replace, reverse above procedure.



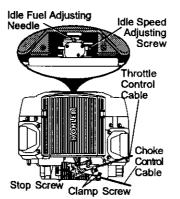
ENGINE

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

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

- 1. With engine not running, move throttle control lever to fast position.
- Check that speed control lever is 2. against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

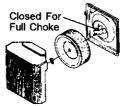




TO ADJUST CHOKE CONTROL

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:

- 1. 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.
- 4. Reassemble air cleaner.



TO ADJUST CARBURETOR

The carburetor has been present 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 adjusting needles in (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles 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 is adjusted properly (see "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).
- 2. With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

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.

NOTE: The high idle is set at the factory and cannot be adjusted.

- Idle speed setting With throttle control lever in slow position, engine should idle at 1200 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow position, turn idle fuel adjusting needle in (clockwise) until engine speed decreases and then turn out (counterclockwise) approximately 3/4 turn to obtain the best low speed performance.
- 4. Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

 Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle fuel adjusting needle 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 a Sears or other qualified service center, 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. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

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

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see TO CLEAN BATTERY AND 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 deposites from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also,

experiance indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of and engine while in storage.

- 1. Drain the fuel tank.
- Start the engine and let it run until the 2. 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 2. plug hole(s) into cylinder(s)
- 3. Turn ignition key to "START" position for a few seconds to distribute oil.
- 4. Replace with new spark plug(s).

OTHER

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

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

TROUBLESHOOTING CHART

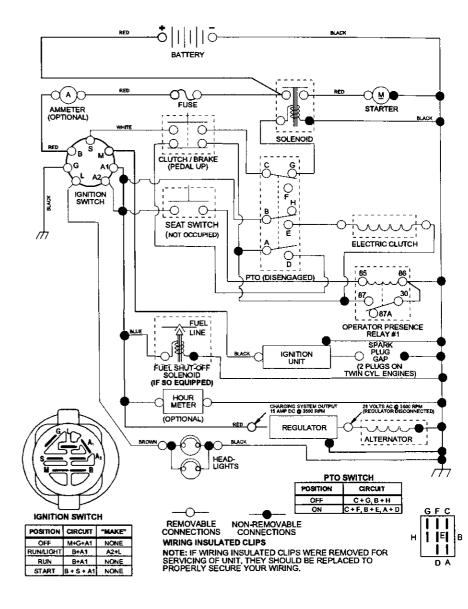
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace
	 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10.Engine valves out of 	fuel filter. 8. Check all wiring. 9. See "To Adjust Carburetor" in Service Adjustments section. 10. Contact a Sears or other
	adjustment.	qualified service center.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery.
	 Dirty fuel filter. Stale or dirty fuel. 	 Replace fuel filter. Drain fuel tank and refill with fresh gasoline.
	 Loose or damaged wiring. Carburetor out of adjustment. 	 Check all wiring. See "To Adjust Carburetor" in Service Adjustments section.
	 Engine valves out of adjustment. 	8. Contact a Sears or other qualified service center.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace
	 Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. 	battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch.
	8. Faulty solenoid or starter.	8. Check/replace solenoid or starter.
	 Faulty operator presence swithch(es). 	9. Contact a Sears or other qualified service center.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace batter Clean battery terminals. Check all wiring. Check/replace solenoid or starter.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
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. Water in fuel. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carbure- tor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean/replace muffler. Check all wiring. Service Adjustments section. Contact a Sears or other qualified service center.
Excessive vlbration	 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 operator leaves seat with attachment clutch engaged	 Faulty operator-safety presence control system. 	 Check wiring, switches and connections. If not corrected, contact a Sears or other qualified 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. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes.

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
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 discharg e	 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) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse.
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator.
Engine"backfires" when turning engine "OFF"	 Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to "SLOW" position and allow to idle for 30 seconds befor stopping engine.

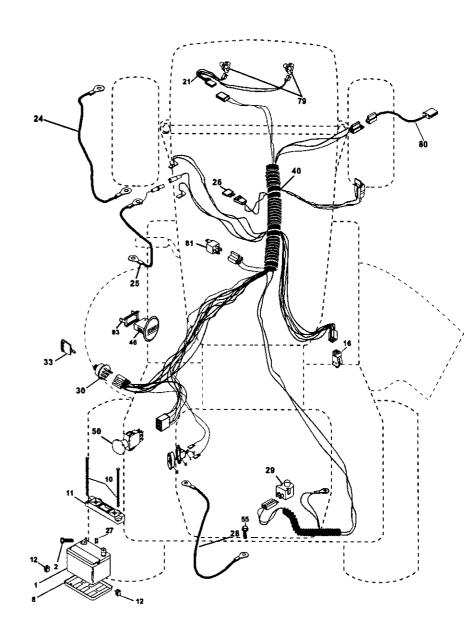


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REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.272231

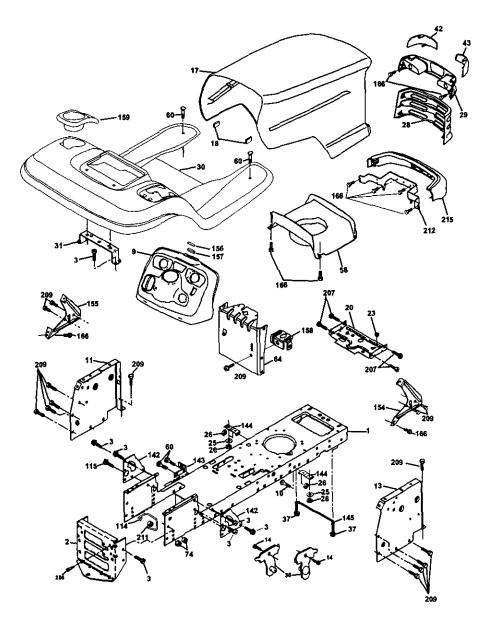
ELECTRICAL



KEY NO.	PART NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, 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
21	175449	Hamess, Light
24	8860R	Cable, Battery
25	146148	Cable, Battery
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 UNC
28	145491	Cable, Ground
29	160784	Switch, Seat
30	175442	Switch, Ignition
33	175447	Key, Molded, Craftsman
40	178451	Hamess, Ignition
45	175548	Ammeter 15 Amp
46	175549	Hourmeter Snap-In
50	178461	Switch Pto 3 Pdt Red Delta
55	17490508	Screw Thdrol 5/16-18 x 1/2
79	175448	Lamp Assembly
81	109748X	Relay Asm
90	176717	Clamp Back Amp Gauge
91	176730	Washer Lock Amp Gauge
92	176733	Nut
93	176732	Clamp Hourmeter
NOTE: All component dimensions given in U.S. inches		

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

TRACTOR -- MODEL NUMBER 917.272231 CHASSIS AND ENCLOSURES

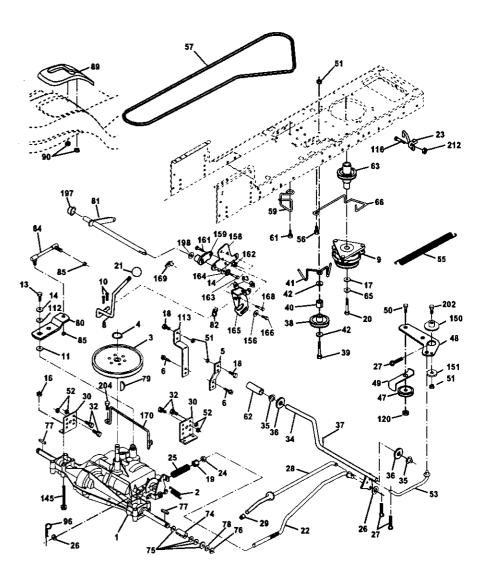


TRACTOR - - MODEL NUMBER 917.272231 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	174619	Chassis
2	176554	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	172542X418	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	174996	Panel, Dash, LH
13	175256	Panel, Dash, RH
14 17	17490608	Screw Thdrol 3/8-16 x 1/2
18	174989 126938X	Hood Assembly BumperHood
20	156437	Plate Battery STYT
23	124028X	Bushing Snap
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	174945X418	Grille, MS-558
29	174944X418	Lens, Grille
30	175692X615	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
42 43	172545X599 172544X599	Lens LH
43 58	174993	Lens RH Duct Hood
60	STD533707	Bott Rdhd Sqnk 3/8-16 UNC x 3/4
64	174997	Dash Lower STYT
74	STD541437	Nut Crownlock 3/8-16 UNC
114	158112	Keeper Belt Rear Lh STL
115	17060620	Scew 3/8-16 x 1-1/4
142	175702	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Footrest STLT
145	156524	Rod Pivot Chassis/Hood
154 155	174679	Bracket Dash Rh
155	174680	Bracket Dash Lh Striker Plate
150	163805 163806	MagnetYTGT
158	162037	Parking Brake Bkrt
159	155123X418	Cupholder Sti Bik
166	164863	HWHDH:-Lo. #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18
207	17670508	Screw Thdrol 5/16-18 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
211	145212	Nut Hexflange Lock
212	174988	Bracket Pivot Hood LTX
215	172543X615	Bumper

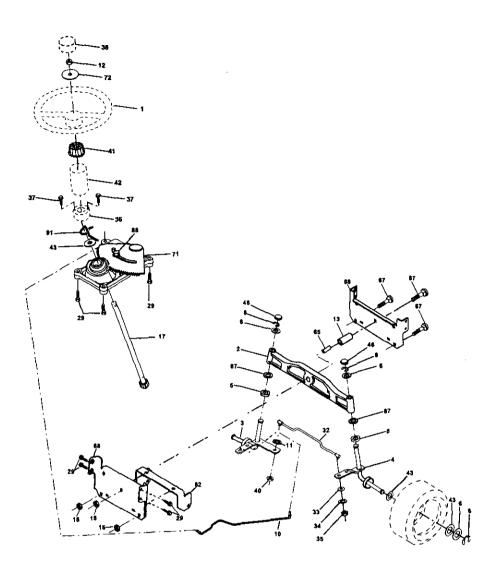
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

GROUND DRIVE



GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxie (See Breakdown)	59	169691	Keeper, Belt, Center Span
		Peerless 206-545C	61	17060612	Screw 3/8-16 x 3/4
2	146682	Spring, Return, Brake	62	123533X	Cover, Pedal
3	123666X	Pulley, Transaxle	63	175417	Pulley, Clutch
4	12000028	Ring, Retainer	65	126197X	Washer
5	121520X	Strap, Torque	66	154778	Keeper, Belt, Engine, Fool-Proof
6	17060512	Screw 5/16-18 x 3/4	74	137057	Spacer, Axle
8	165866	Rod Shifter Fender STLT	75	121749X	Washer 25/32 x 1-1/4 x 16 Ga.
9	174367	Clutch Elect EVX	76	STD581075	E-Ring
10	STD561210	Pin, Cotter	77	123583X	Key, Square 2.0 x .1845/.1865
11	105701X	Washer, Shift Plate	78	121748X	Washer 25/32 x 1-5/8 x 16 Ga
13	74550412	Bolt_1/4-28 UNF W/Patch	79	STD580025	Key Woodruff
		Gr. 8	80	145090	Arm, Shift
14	10040400	Washer Lock Hvy Helical	81	165592	Shaft Asm Cross Tapered 650
16	STD541431	Nut Lock Hx W/ins 5/16-18unc	~	405744	20
17	10040700	Washer Lock 7/16	82	165711	Spring, Torsion
18	STD523710	Bolt Fin Hex 3/8-16UNC x 1	83	19171216	Washer 17/32 x 3/4 x 16 Ga.
40	070644407	Gr 5	84	166231	Link Transaxle
19	STD541437	Nut	85	150360	Nut, Nylock
20 21	173937 106933X	Bolt Hex 7/16-20 x 4 Knob	89	158391X418	Console, Shift, STLT
21			90	124346X	Nut, Self-Thding, Wsh Hd 1/4
23	130804 178289	Rod, Brake Bracket Asm Anti-Rotate EVX	96 112	STD624003 19091210	Retainer Spring 1"
23	STD541237	Nut	113	127285X	Washer 9/32 x 3/4 x 10 Gauge
25	106888X	Spring, Brake Rod	116	72140608	Strap Torque 90 Degrees Bolt RDHD 3/8-16 x 1
25 26	STD551037	Washer	120	73900600	Nut Lock 3/8-16
20	STD561210	Pin	145	74490540	Bolt, Hex Fighd 5/16-18 Gr. 5
28	175798	Rod, Parking Brake	150	175456	Spacer Retainer
29	175799X505	Cap, Parking Brake	150	19133210	Washer 13/32 x 2 x 10 Ga.
30	169592	Bracket, Transaxle	156	166002	Washer Strted 5/16ID x 1.125
32	STD523107	Bolt	158	165589	Bracket Shift Mount
34	175578	Shaft Assembly, Foot Pedal	159	165494	Hub Tapered Flange Shift Lt
35	120183X	Bearing, Nylon	161	72140406	Bolt Rdhd Sgnk 1/4-20 x 3/4
36	STD551062	Washer	101	12110100	Gr.5
37	STD571810	Roll Pin	162	73680400	Nut Crownlock 1/4-20 Unc
38	165936	Pulley, Idler, Flat	163	74780416	Bolt Hex Fin 1/4-20Unc x 1 Gr 5
39	74760648	Bolt Fin Hex 3/8-16 x 3	164	19091010	Washer 5/8 x .281 x 10 Ga
40	175461	Spacer, Split .395 x .59	165	165623	Bracket Pivot Lever
41	175556	Keeper, Belt, Idler	166	166880	Screw 5/16-18 x 5/8
42	19131312	Washer 13/32 x 13/16 x 12	168	165492	Bolt Shoulder 5/16-18 x .561
	10101212	Ga.	169	165580	Plate Fastening Lt
47	127783	Pulley, Idler, V-Groove, Plastic	170	173898	Keeper Belt Transaxle Gear
48	154407	Bellcrank Clutch Grnd Drv Stl	197	169613	Nyliner Snap-In
49	123205X	Retainer, Beit	198	169593	WasherNyliner
50	STD523715	Bolt	202	72110612	Bolt Carr. SH 3/8-16 x 1-1/2
51	STD541437	Nut Crown Lock 3/8-16 UNC			Gr. 5
52	STD541431	Nut Crown Lock 5/16-18 UNC	204	17060512	Screw 5/16-18 x 3/4 SMGML
53	105710X	Link, Clutch	212	145212	Nut Hex Flange Lock
55	105709X	Spring, Clutch Return			•
56	17060616	Screw 3/8-16 x 1			
57	130801	V-Belt, Ground Drive	NOTE		dimensions given in U.S. inches
		• –		1 inch = 25.4	mm



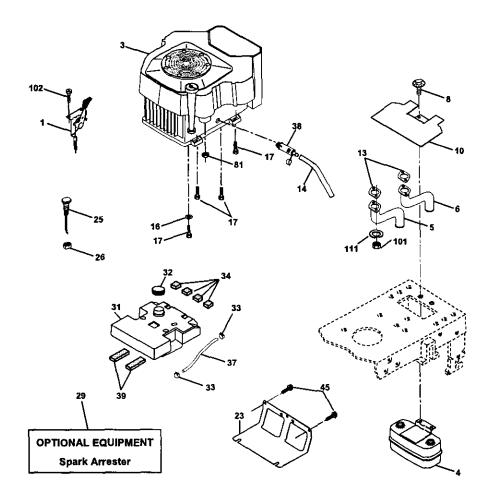
TRACTOR -- MODEL NUMBER 917.272231 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	175139X418	Steering Wheel
2	172393	Axle Assembly Cast Iron
3	169840	Spindle Assembly, L.H.
2 3 4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
8	12000029	Ring, Klip
10	175121	Draglink
11	10040600	Washer Lock 3/8
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer Brg Axle Front
15	145212	Nut Hexflange Lock
17	177883	Shaft Assembly, Steering
29	17060612	Screw, 3/8-16 x 3/4
32	170162	Rod, Tie
33	19111216	Washer 11/32 x 3/4 x 16 Ga/
34	STD551131	Washer Lock Hvy Spr. 5/16
35	73540500	Locknut 5/16-24 Unf
36	155105	Bushing, Steering
37	152927	Screw
38	175140X418	Insert, Steering Wheel
40	STD541537	Gripco Nut
41	159945	Adaptor, Steering Wheel
42	174530X418	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46	121232X	Cap, Spindle
65	160367	Spacer Brace Axle
67	72140618	Bolt Rdhd Sq 3/8-16 UNC x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm.
72	19182411	Washer 9/16 ld x 1-1/20d 11 G Zin
82	169835	Bracket Susp Chassis Front
87	173966	Washer Flat .781 x 1 1/2 x .14
88	175118	Bolt Shoulder 7/16-20
91	175553	Clip Steering
NOT	A 10	disconsistent all company of the second

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

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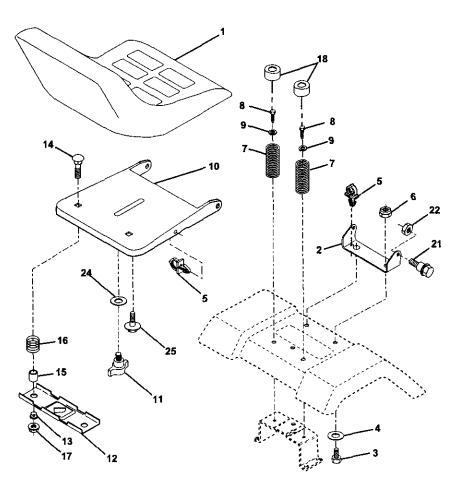
ENGINE



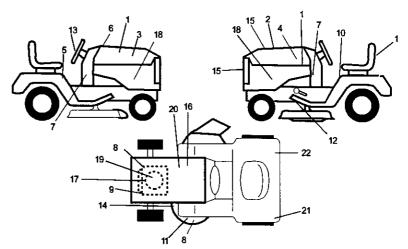
KEY NO.	PART NO.	DESCRIPTION
1	175439X505	Control, Throttle
3		Engine, (See Breakdown) Kohler Model Number CV624-65578
4	149723	Muffler
5	146699	Pipe Exhaust LH
6	146700	Pipe Exhaust RH
8	171877	Bolt 5/16-18 UNC x 3/4 w/Sems
10	146629	Shield, Heat Muffler
13	24-041-02	Muffler Gasket (See Engine Breakdown)
14	148456	Tube Drain Oil Easy
16	11050600	Washer, Lock, External Tooth 3/8
17	17490624	Screw Thdroi 3/8-16 x 1-1/2
23	169837	Shield, Browning / Debris Guard
25	175441X505	Choke Control
26	73920600	Nut, Keps 3/8-24 UNF
29	137180	Kit, Spark Arrestor
31	157103	Tank Fuel
32	161696	Cap Asm Fuel
33	123487X	Clamp, Hose
34	106082X	Pad, Spacer
37	8543R	Line, Fuel
38	148315	Plug Drain Oil Easy
39	109227X	Pad, Idler
45	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
81	73510400	Nut Keps Hex 1/4-20 UNC
101	M73030800	NutFlange M8-1.25
102	164863	Screw Hwhd HLo #13016 x 3/4
111	10010500	Washer Split

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

SEAT ASSEMBLY

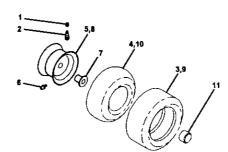


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	175134	Seat	14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
2	140551	Bracket, Pivot, Seat	15	121249X	Spacer, Split
3	71110616	Bolt	16	123740X	Spring
4	19131610	Washer 13/32 x 1 x 10 Gauge	17	123976X	Locknut, Flange 1/4 Grade 5
5	145006	Clip, Push-In Hinged	18	124238X	Cap Spring Seat
6	STD541437	Nut	21	171852	Bolt, Shoulder 5/16-18 UNC
7	124181X	Spring, Seat	22	STD541431	Nut
8	17000616	Screw 3/8-16 x 1-1/2	24	19171912	Washer 17/32 x 1-3/16 x 12
g	19131614	Washer 13/32 x 1 x 14 Gauge			Gauge
10	174894	Pan, Seat Emboss QCK Conn.	25	127018X	Bolt, Shoulder 5/16-18 x .62
11	177957	Knob Seat			
12	121246X	Bracket, Switch Mounting	NOTE:		t dimensions given in U.S. inches
13	121248X	Bushing, Snap		1 inch = 25.4	mm



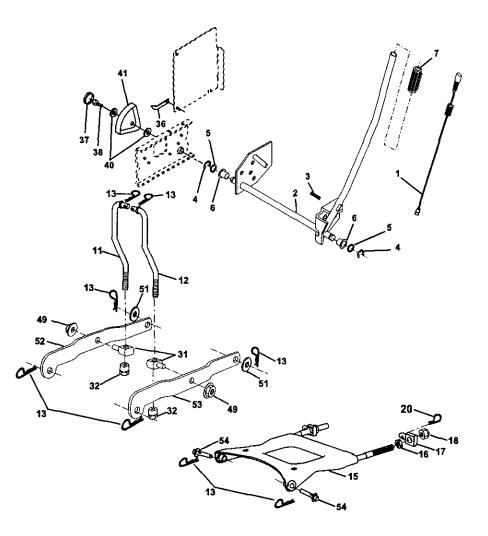
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	177888	Decal, Hood/Seat Name Pie.	14	175291	Decal, V-Belt Schematic
2	177249	Decal, Replacement Parts	15	177889	Decal Replc
3	177909	Decal, Hood, R.H.	16	138047	Decal, Battery Diehard
4	177910	Decal, Hood, L.H.	17	164757	Decal, Hp Engine
5	156368	Decal, Fender STLT Opr Inst	18	177913	Decal, Panel Side
6	133644	Decal, Customer Maintenance	19	177918	Decal, Blower Housing
7	177967	Decal, Dash Pnl	20	149516	Decal, Battery Dngr/Psn Eng
8	177916	Decal, ENCN KP 20 Sears LTX	21	174969	Reflector
		RH	22	174970	Reflector
9	177917	Decal, ENCN KP 20 Sears LTX	••	138311	Decal, Lift Handle
		LH	••	174998X418	Pad Footrest LH STLT
10	156439	Decal, Fender Danger	••	174999X418	Pad Footrest RH STLT
11	178482	Decal, Deck Heavy Duty	••	178491	Owner's Manual, English
12 13	146046 177890	Decal, V-Belt Drive Schematic Decal, Strg Wheel		178492	Owner's Manual, Spanish

WHEELS & TIRES



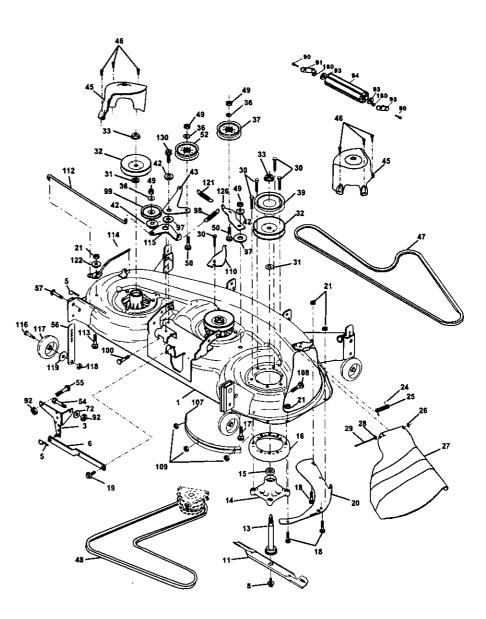
KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2 3	65139	Stem, Valve
3	177750	Tire, Front
4	59904	Tube, Front Tire
		(Not Provided, Service Item
		Only)
5	106732X417	Rim, Front
6	278H	Fitting, Grease (Front Wheel
		Only)
7	9040H	Bearing, Flange (Front Wheel
		Only)
8	106108X417	Rim, Rear
9	177751	Tire, Rear
10	7152J	Tube. Rear Tire
	-	(Not Provided, Service Item
		Only)
11	104757X417	Cap, Axle
	144334	Sealant, Tire 10 oz.
NOTE		
NOTE:	1 inch = 25.4	dimensions given in U.S. inches mm

LIFT ASSEMBLY

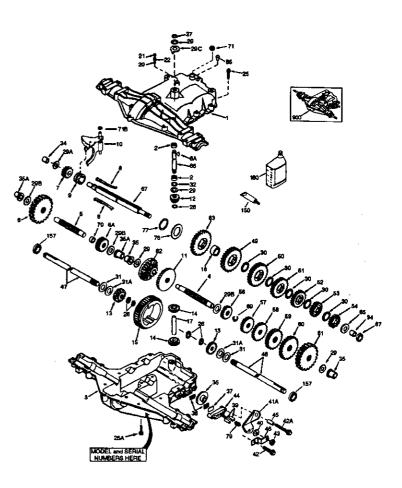


KEY NO.	PART NO.	DESCRIPTION
1	176263	Plunger Assembly
2	159476	Shaft Assembly, Lift
3	138284	Pin, Groove
4	12000002	E-Ring
5	19211621	Washer 21/32 x 1 x 21 Gauge
6	120183X	Bearing, Nylon
7	175830	Grip, Handle, Fluted
11	175370	Link, Lift, L.H.
12	175371	Link, Lift, R.H.
13	4939M	Retainer Spring
15	175562	Link, Front
16	73350800	Nut, Hex, Jam 1/2-13 UNC
17	175689	Trunnion
18	73800800	Nut Lock w/wsh 1/2-13 UNC
20	163552	Retainer Spring
31	176205	Bearing, Pvt, Lift Spherical
32	175994	Nut, Lift Link 7/16-20
36	155097	Pointer Height Indicator
37	123935X	Plug Hole
38	17060516	Screw 5/16-18 x 1
40	19112410	Washer 11/32 x 1-1/2 x 10 Ga
41	155098	Indicator Height Stit
49	145212	Nut Hex/Large Lock
51	19171416	Washer
52	175802	Suspension Arm RH
53	175378	Suspension Arm LH
54	175560	PinFlange

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



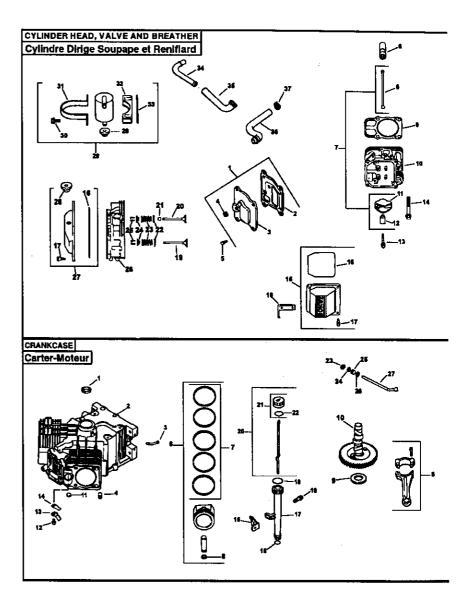
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
			54	74780616	Bolt Fin Hex 3/8-16 x 1
1	174348	Deck Weldment Mower 48	54 55	72140608	Bolt 3/8-16 x 1
3	178944	Bracket Asm., Sway Bar	56	155986X431	Bar Pht Adj.
5	4939M 130832	Retainer Spring	50 57	156941	Pin Head Rivet
6	130832	Arm, Suspension, Rear (Sway	57 72	19131312	Washer 13/32 x 13/16 x 12
	174365	Bar) Bolt 7/16 Asm, Blade	90	74760516	Bolt Hex 5/16-18 x 1
8	173920	Biade	91	175996	Bracket Asm. Noseroller LH
11 13	173920		92	73800600	Nut Lock Hax W/ins 3/8-16 Unc
13	174350	Shaft Asm. w/Lower Bearing Asm Greasable, Mandrei	93	19171416	Washer 17/32 x 7/8
14 15	174356 110485X	Bearing, Ball, Mandrel	94	176066	Noseroller
16	174493	Stripper Mandrel Deck	95	175384	Bracket Asm Noseroller RH
17	72110610	Bolt RDHD Sq Neck 3/8-	97	133943	Washer Hardened
17	12110010	16x1.25	98	174370	Spring Primary Drive
18	72140505	Bolt, Carriage 5/16-18 x 5/8	99	175080	Pulley Idler"V"
19	132827	Bolt, Hex Hd, Shoulder 5/16-18	100	72110616	Bolt RDHD Sank 3/8-16 UNC x 2
20	174378	Baffle, Vortex Mower	107	175294	Baffle Vac Edge Mower
21	73680500	Nut, Crownlock 5/16-18 UNC	108	72110404	Bolt Carr.
24	105304X	Cap. Sleeve	109	73680400	Nut Crownlock 1/4-20
25	178102	Spring, Torsion	110	175016	Arm Spring Secondary
26	110452X	Nut. Push	112	174387	Link Tension Relief Lever
27	174346X428	Deflector Shleid	113	72110508	Bolt Carr. 5/16-18 x 1
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	114	174384	Tension Asm. Relief Lever
29	131491	Rod, Hinge	115	174609	Arm Spring Tension Relief
30	157722	Screw, Thdroll Washer Head	116	137644	Bolt, Shoulder
31	129963	Washer, Spacer Mower Vented	117	174873	Gauge Wheel
32	177865	Pulley, Mandrel	118	73930600	Nut, Centerlock 3/8-16 UNC
33	178342	Nut, Fig. Top Lock Cntr. 9/16	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
36	19131316	Washer 13/32 x13/16 x 16 Ga.	121	174371	Spring Secondary Drive
37	173437	Pulley, Idler, Flat	122	174606	Bushing Pivot Tension Relief
39	174375	Pulley, Idler, Driven	126	174372	Arm, Idler, Primary Deck
42	165723	Spacer, Retainer	130	17060616	Screw 3/8-16 x 1.0
43	174373	Arm, Idler Secondary	132	17060612	Screw Thdrol 3/8-16 x 3/4
45	174343	Cover, Mandrel Deck	180	73800500	Nut Lock Hex W/Ins 5/16-18
46	137729	Screw, Thdroll. 1/4-20 x 5/8		175312	Deck Complete (Order
47	174369	V-Belt, Mower, Secondary			noseroller separately)
48	174368	V-Belt, Mower, Primary		174356	Mandrel Asm. Service
49	73680600	Nut, Crownlock 3/8-16 UNC			(includes Key Nos. 13-15)
50	72110612	Bolt, Carr. 3/8-16 x 1-1/2			
52	175820	Gr. 5 Pulley Idler Flat	NOTE	E: All componer s 1 inch = 25.4 r	it dimensions given in U. S. nm



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TRACTOR - - MODEL NUMBER 917.272231 PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C

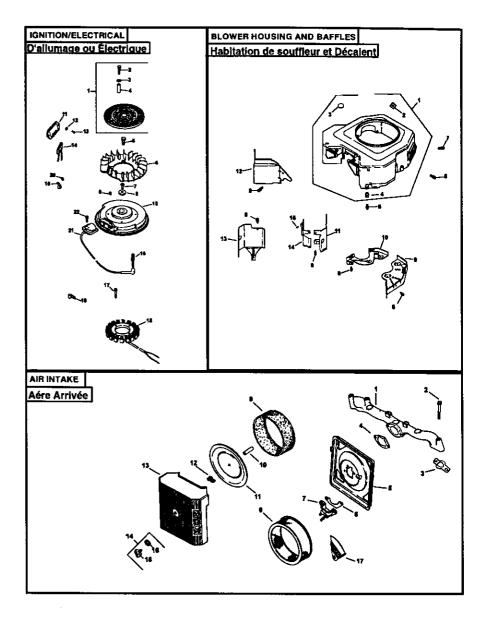
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	772147	Transaxle Cover	41A	790079	Brake Lever
Ż	780086A	Needle Bearing 5/8"	42	792073A	Screw 1/4 - 20 x 1-1 /4"
3	770128	Transaxle Case	42A	792085A	Screw 1/4 - 20 x 2 1/4"
4	776395	Countershaft	43	792075	Locknut 5 / 16 - 24
5	776409	Output Shaft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



HEAD/VALVE/BREATHER

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	24-033-01-S	Kit, breather cover w/gasket	1	24-032-01-S	Seal, oil front
L	24-033-01-3	(Includes 2-4)	2		Crankcase
2	24-041-23-S	Gasket, breather			(USE: Miniblock 24 782 24)
3	24-096-59-S	Cover, breather	3	24-294-13-S	Fitting
2 3 4	25-139-60 S	Plug, allen hd. 1/8"	4	24-380-13-S	Pin, dowel locating (6)
5	M-645020	Screw, hex. flange	5	24-067-13-S	Connecting Rod (Std.) (2)
		M6x1.0x20 (4)	•	24-067-14-S	Connecting Rod (.25) (2)
6	25-351-01-S	Lifter, valve (4)	6	24-874-17-S	Piston w/Ring Set (Std.) (2)
7	24-755-66-S	Kit, valve train (Includes		04 074 40 C	(Includes 7, 8)
		8,11,12)		24-874-18-S 24-874-19-S	Piston w/Ring Set (.25) (2)
8	24-411-05-S	Rod, push (4)		24-874-14-S	Piston w/Ring Set (.50) (2)
9	24-041-08-S	Gasket, cylinder head (2)	7	24-108-11-S	Piston w/ring set (.08) Ring Set (Std.) (2)
10	24-318-12-S	Head assembly, #2 cylinder	'	24-108-12-S	Ring Set (.25) (2)
11	25-186-01-S	Arm, rocker (4)		24-108-12-S	Ring Set (.50) (2)
12	24-599-01-S	Pivot, rocker arm (4)	8	24-018-01-S	Retainer, piston pin (4)
13	M-640034-S	Screw, hex. flange	ğ	12-422-09-S	Shim, camshaft (A.R.)
	40.000.40.0	M6x1.0x34 (4)	9	12-422-13-S	Shim, camshaft (A.R.)
14	12-086-16-S	Screw, hex. flange		12-422-07-S	Shim, camshaft (A.R.)
	04 766 74 0	M10x1.5x90 (8)		12-422-08-S	Shim, camshaft (A.R.)
15	24-755-74-S	Kit, valve cover - plain		12-422-10-S	Shim, camshaft
16	24-153-16-S	(Includes 16,17)		12-422-11-S	Shim, camshaft (A.R.)
17	24-086-32-S	O-Ring Screw, shoulder (4)		12-422-12-S	Shim, camshaft (A.R.)
18	24-445-01-S	Strap, lifting	10	24-012-10-S	Camshaft
19	24-016-01-S	Valve, exhaust (Std.) (2)	11	52-139-09-S	Plug, cup
13	24-016-02-S	Valve, exhaust (.25) (2)	12	M-545010-S	Screw, hex. flange
20	24-017-01-S	Valve, intake (Std.) (2			M5x0,8x10 (2)
	24-017-02-S	Valve, intake (.25) (2)	13	24-018-04-S	Retainer, reed (2)
21	24-032-05-S	Seal, valve stem (2)	14	24-402-05-S	Reed, breather (2)
22	235011-S	Retainer, spring (4)	15	12-153-01-S	O-Ring, lower oil fill tube
23	24-089-02-S	Spring, valve (4)	16	24-126-19-S	Bracket, oil fill tube
24	12-173-01-S	Cap, valve spring (4)	17	12-123-04-S	Tube, oil fill
25	12-755-03-S	Kit, retainer (4)	18	M-545016-S	Screw, hex. flange
26	24-318-11-S	Head assembly, #1 cylinder	40	40 450 40 0	M5x0.8x16
27	24-755-76-S	Kit, valve cover - breather	19	12-153-02-S	O-Ring, upper oll fill tube
		(Incl. 16,17,28)	20	24-038-04-S	Dipstick assembly (Includes
28	25-313-02-S	Grommet, rubber	0.1	24 766 46 Q	21, 22)
29	24-755-57-S	Kit, breather separator	21 22	24-755-46-S 12-153-03-S	Kit, oli fili cap (Includes 22) O-Ring, dipstick
		(Includes 28,30-33)	23	24-018-09-S	Retainer, ring
30	M-545016-S	Screw, hex. flange	24	M-931010-S	Washer, nylon (top)
		M5x0.8x16 (2)	25	28-032-09-S	Seal, governor cross shaft
31	24-445-02-S	Strap, breather	26	24-468-15-S	Washer (bottom)
32	24-126-44-S	Bracket, breather separator	27	24-144-33-S	Shaft, governor cross
33	24-112-12-S	Spacer	2.	24-144-00-0	enan, gerenner orees
34	24-294-06-S	Fitting	NOT	E: All compone	ent dimensions given in U.S.
35 36	24-326-13-S 24-326-14-S	Hose, breather Hose, breather		1 = 25.4	
30	24-326-14-5 25-237-14-S	Clamp, hose (2)			
51	20-201-14-0	OBIND, NOR (2)			



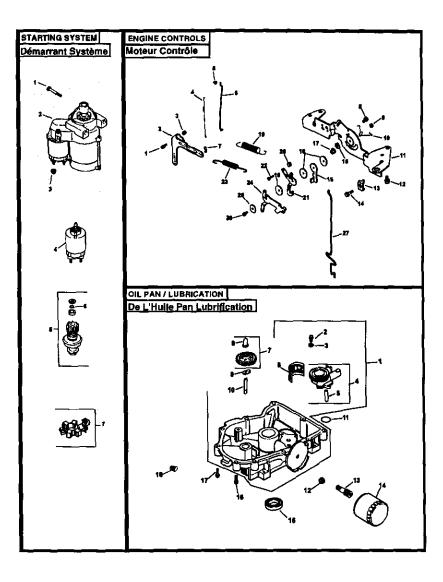
IGNITION/CHARGING

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	54-755-15-8	Kit, grass screen (Includes 2-4,and 24	1	24-027-20-S	Housing, blower (Incl. 2-4)
		113 18-S)	2	24-100-01-S	Nut plastic (3)
2	M-403025-S	Screw, hex. cap	3	25-139-16-S	Plug, button 9/16
		M4x0.7x25 (4)	4	24-100-02-S	Nut, plastic (2)
3	X-25-92-S	Washer, plain 5/16" (4)	5	M-545020-S	Screw, hex. flange M5x0.8x20 (4)
4	24-112-04-S	Spacer, grass screen (4)	6	M-545016-S	Screw, hex. flange M5x0.8x16 (3)
5	25-086-47-S	Bólt, shoulder M6 X1.0 X16 S(4)	7	M-551016-S	Screw, hex. flange M5x0.8x16
6	24-157-03-S	Fan	8	M-645016-S	Screw, hex. flange
7	12-086-14-S	Screw, hex. flange M10x1.5x46	9	24-146-16-S	M6x1.0x16 (6) Plate, backing - # 2
8	12-468-03-S	Washer, plain 3/8".		~	side
9	X-42-15-S	Key	10	24-146-20-S	Plate, backing - # 1
10	24-025-04-S	Flywheel			side
11	25-403-03-S	Rectifier-regulator	11	24-063-20-S	Baffle, cylinder barrel-
12	X-25-92-S	Washer, plain 3/16"			# 2 side
		(2)	12	24-063-14-S	Baffle, valley - #2 side
13	24-086-18-S	(2) Screw, phillips hd. 11- 16x7/8 (2)	13	24-063-58-S	Baffle, cylinder barrel- # 1 side
14	236602-S	Connector (3 contact)	14	24-063-23-S	Baffle, valley - #1 side
15	54-755-09-S	Kit, 15 amp stator (Includes 24 126 71- S)	15	M-545010-S	Screw, hex. flange M5x0.8x10 (2)
16	12-132-06-S	Spark Plug (2)			
17	M-548025-S	Screw, hex. cap M5x0.8x25 (2)	AIR II	NTAKE/FILTRATION	l
18	235173-S	Clip, cable		B. 87	
19	48-154-02-S	Clip, cable	KEY	PART	
20	X-25-63-S	Washer, plain 1/4"	NÔ.	NO.	DESCRIPTION
21	24-584-01-S	Module, ignition (2)			
22	M-545020-S	Screw, hex. flange	1	24-164-06-S	Manifold, intake
	ILLUSTRATED	M5x0.8x20 (4)	2	M-651055-S	Screw, hex. flange M6x1.0x55 (4)
	24-126-71-S	Bracket, stator wire	3	24-041-01-S	Gasket, intake
	X-22-11-S	Washer, lock 1/4"			manifold (2)
	24-176-82-S	Hamess, wiring	4	24-041-14-S	Gasket, air cleaner
	2	Lead, black (rectreg.			base
		5" - 12 gauge	5	24-094-19 - S	Base, air cleaner
	24-518-12-S	insulated grip barrel evelets)	6	24-041-13-S	Gasket, fuel spitback cup
	24-113-18-S	Decal, grass screen	7	24-109-10-S	Cup, fuel spitback
	25-454-03-S	Tie, wire (3)	8	24-083-02-S	Precleaner, element
	10 404 00 0	110, 1110 (0)	9	47-083-03-S	Element, air cleaner
			10	24-032-03-S	Seal, inner air cleaner
			11	24-096-01-S	Cover, inner air cleaner
			12	12-100-01-S	Wing Nut
			13	24-096-67-S	Cover, air cleaner
			14	54-755-01-S	Kit, knob with seal (includes 15 & 16)
			15	24-153-20-S	Ö-Ring
			16	25-341-03-S	Knob, cover
			17	24-063-51-S	Baffle, fuel spit-back

BLOWER HOUSING & BAFFLES

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

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STARTING SYSTEM

KEY NO. 1 2

3 4 5

6 7

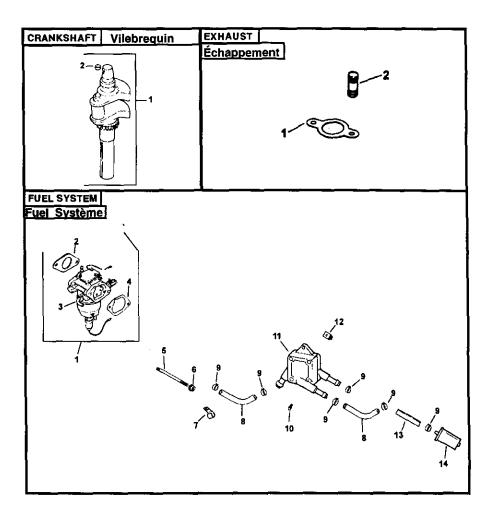
OIL PAN/LUBRICATION

(PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
	M-839080-S	Screw, hex. flange M8x1.25x80 (2)	1	24-199-07-S	Pan, oil assembly (includes 2-10)
	25-098-08-S	Starter, solenoid shift assembly (Includes 4-	2	M-645025-S	Screw, hex. flange M6x1.0x25 (2)
	M-841080-S	7) Nut, hex. flange	3	M-631005-S	Washer, plain 6 mm (2)
	25-435-04-S 25-755-33-S	Kit, solenoid Kit, pinion drive	4	24-393-08-S	Oil pump assembly (Includes 5)
		(Includes 6)	5	24-123-05-S	Tube, oli pickup
	25 141 05-S	Ring	6	24-162-26-S	Screen, oll
	25-221-01-S	Klt, brush	7	24-043-12-5	Kit, governor gear w/ pin (Includes 8)
			8	12-380-01-S	Pin, governor regulating
			9	52-448-02-S	Tab, locking
GII	NE CONTROLS		10	12-144-02-S	Shaft, governor gear
			11	24-153-08-S	O-Ring
Y	PART		12	25-139-62-S	Plug, hex. ctsk. 3/8"
	NO.	DESCRIPTION	13	24-136-01-S	Nipple, oil filter
			14	52-050-02-S	Filter, oil
	24-211-03-S	Bolt, round head	15	52-032-08-S	Seal, oil (PTO end)
	24-211-00-0	square neck	16	24-086-17-S	Screw, hex. flange
•	24-090-33-S	Lever, governor		24-000-17-0	M8x1.25x45
i	M-641060-S	Nut, hex. flange	17	24-086-16-S	Screw, hex. flange
·	11-041000-0	M6x1.0	• •	24-000-10-3	M8x1.25x45 (9)
L	24-089-01-S	Spring, linkage	18	25-139-57-S	Plug, sq. hd. solid 3/8"
,	25-158-08-S	Bushing, linkage retaining	10	20-100-07-0	N.P.T.F.
•	24 070 04 0	Linkage throttle	NOT		discourse to a second second second

ENGINE CONTROLS

KEY NO.	PART NO.	DESCRIPTION
1	24-211-03-S	Bolt, round head square neck
2	24-090-33-S	Lever, governor
2 3	M-641060-S	Nut, hex. flange
		M6x1.0
4	24-089-01-S	Spring, linkage
5	25-158-08-S	Bushing, linkage
		retaining
6	24-079-04-S	Linkage, throttle
7	25-158-11-S	Bushing, throttie
•		linkage
8	M-545016-S	Screw, hex. flange
9	M-547050-S	M5x0.8x16 (1)
10	24-089-03-5	Nut, hex. lock M5x0.8 Spring, choke return
11	24-089-03-5 24-126-56-S	Bracket, control
12	M-645016-S	Screw, hex. flange
12	NI-043010-3	M6x1.0x16 (4)
13	12-237-01-S	Clamp, cable (2)
14	24-086-43-S	Screw, thread forming
••	2.000.000	(2)
15	24-090-07-S	Lever, throttle actuator
16	X-20-1-S	Washer, lock 1/4"
17	M-541050-S	Nut, hex. flange
		M5x0.8
18	24-468-01-S	Washer, plain 5.5 mm
		(3)
19	24-089-45-S	Spring, governor
20	M-446030-S	Nut, hex. M4x0.7
21	24-090-13-S	Lever, throttle control
22	M-545020-S	Screw, hex. flange
23	24-089-51-S	M5x0.8x20 Spring, throttle limiter
23	24-089-51-5 24-090-05-S	
25	41-468-03-S	Lever, choke Washer, spring 1/4"
20	41-406-03-5	washer, spring 1/4
26	M-403025-S	Screw, hex. cap
		M4x0.7x25
27	24-079-05-S	Linkage, choke

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

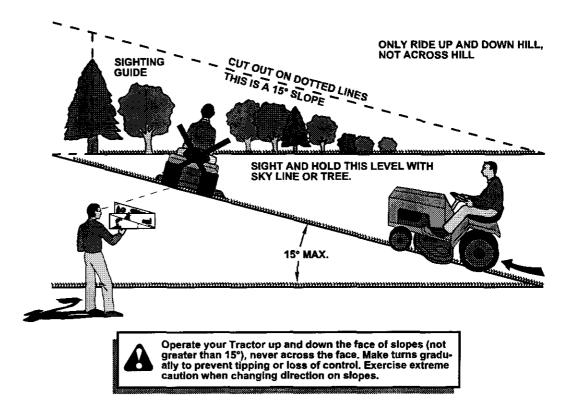


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CRAN	IKSHAFT		FUEL	SYSTEM	
KEY NO.	PART NO.	DESCRIPTION	KEY NÖ.	PART NO.	DESCRIPTION
1	24-014-42-S	Crankshaft (Includes 2)	1	24-853-25-S	Kit, carburetor w/ gaskets
2	52-139-09-S	Plug, cup	2 3	24-041-15-S 24-053-25	(Includes 2-4) Gasket, carburetor Carburetor assembly
EXHA	UST				(For information onlý not
KEY NO.	PART NO.	DESCRIPTION			available separately) (Service with kits 24- 757-18-S, 24-757-19-
1 2	24-041-02-S 25-072-04-S	Gasket, exhaust (2) Stud, M8x1.25x33 (4)	4	24-041-14-S	S, 24-757-20-S, 24- 757-22-S) Gasket, air cleaner
NOT	ILLUSTRATED PA-65578 24-522-221 24-782-24 24-755-107-S	Replacement Engine Short Block Miniblock Gasket Set	≁ 5 6 7	M-629095-S M-641060-S 47-154-01-S	base Stud, M6x1.0x95 (2) Nut, hex. flange M6x1.0 (2) Clip, cable
			8 9 10	24-353-03-S 25-237-14-S 24-086-12-S	Line, fuel 10-5/8" (2) Clamp, hose (6) Screw, hex. cap. M6x1.7x18 (2)
			11 12 13 14 NOT	24-393-16-S 24-100-01-S 15-353-04-S 24-050-02-S ILLUSTRATED	Pump, fuel - pulse Nut, plastic (2) Line, fuel 11-1/2" Filter, fuel
				24-757-18-S	Kit, overhaul w/ gaskets
				24-757-19-S	Kit, choke repair w/ gaskets
				24-757-20-S 24-757-22-S	Kit, gasket Kit, solenoid replace- ment w/gaskets

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

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