Owner's Manual



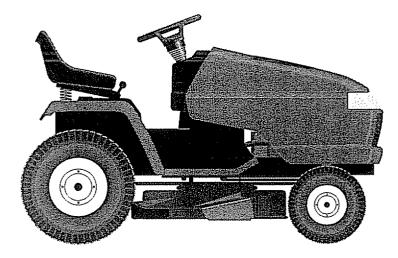
22.0 HP ELECTRIC START 50" MOWER AUTOMATIC GARDEN TRACTOR



Model No. 917.273101



- Assembly
- Operation
- Maintenance
- Repair Parts



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

CAUTION:

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

1-800-659-5917

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

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

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LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS

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

This Warranty does not cover:

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

LIMITED 90 DAY WARRANTY ON BATTERY

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

To locate the nearest sears service center or to schedule in-home warranty service, simply contact sears at 1-800-4-my-home

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

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

SAFETY RULES

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

GENERAL OPERATION

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

SLOPE OPERATION

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

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

DO NOT:

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

CHILDREN

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

SAFETY RULES

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

SERVICE

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







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



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

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

SAFETY RULES

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

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

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

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

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

PRODUCT SPECIFICATIONS

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GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OILTYPE	SAE 10W30
(API-SF/SG/SH):	
	SAE 5W-30
	(BELOW 32°F)
OIL CAPACITY:	W/FILTER: 4.2PINTS
	W/O FILTER: 3.7PINTS
SPARK PLUG:	CHAMPION
(GAP: .030")	RC12YC
GROUND	FORWARD: 5.8
SPEED(MPH):	REVERSE: 2.1
TIRE	FRONT: 14 PSI
PRESSURE:	REAR: 10 PSI
CHARGING SYSTEM:	15AMPS @ 3600RPM
BATTERY:	AMP/HR: 35
	MIN. CCA: 280
	CASE SIZE:U1R
BLADE BOLT TORQUE:	27-35 FT. LBS

CONGRATULATIONS on your purchase of a Craftsman Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact

your nearest Sears Authorized Service Center. We have competent, well-trained technicians and the proper tools to service or repair this tractor. Please read and retain this manual. The instructions will enable you to assemble and maintain your tractor properly. Always observe the "SAFETY RULES".

REPAIR AGREEMENT

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

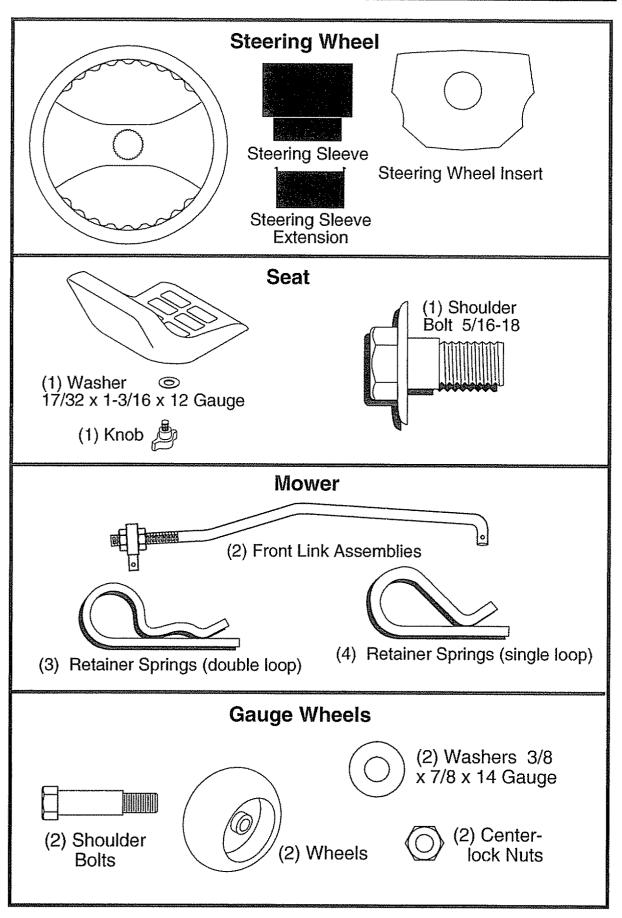
CUSTOMER RESPONSIBILITIES

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

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

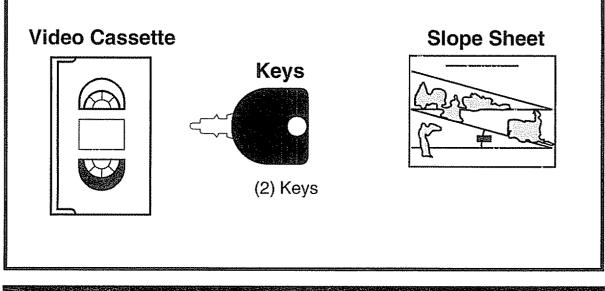
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center/Department (See REPAIR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

UNASSEMBLED PARTS



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

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

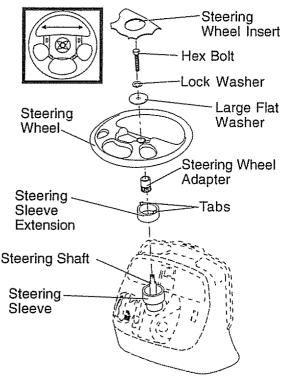
ASSEMBLY

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

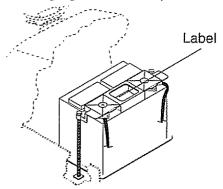
- Remove hex bolt, lock washer and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide the steering sleeve over the steering shaft.
- Align tabs and press steering sleeve extension into bottom of steering wheel.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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



HOW TO SET UP YOUR TRACTOR CHECK BATTERY

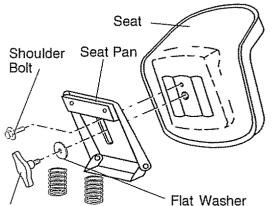
- · Lift hood to raised position.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in Maintenance section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



Adjustment Knob

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

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in freewheeling position to disengage transmission (See "TO TRANSPORT" in the Operation section of this manual).
- 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.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever in neutral (N) position.
- Press lift lever plunger and raise attachment lift lever to its highest position.

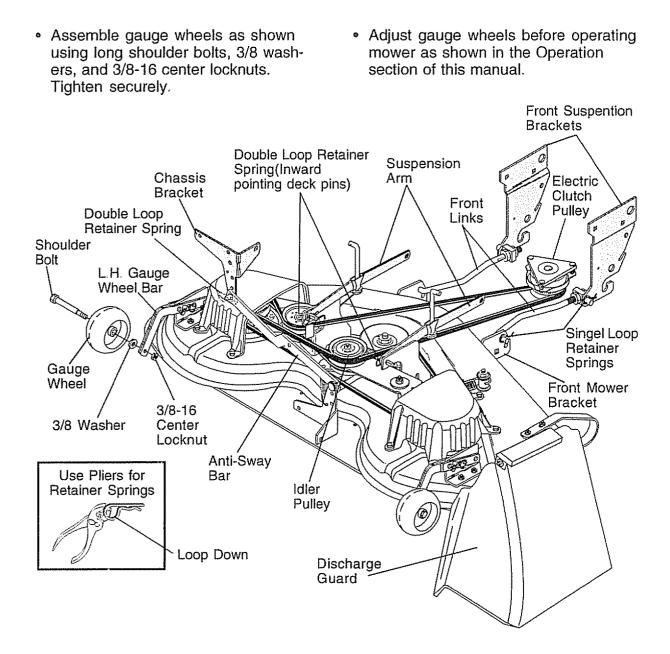
- Start the engine. After engine has started, move throttle control to idle position.
- Release parking brake.
- Slowly move the motion control lever forward and slowly drive tractor off skid.
- Apply brake to stop tractor, set parking brake and place gearshift lever in neutral position.

• Turn ignition key to "OFF" position. Continue with the instructions that follow.

INSTALL 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 discharge guard to right side of tractor.
 IMPORTANT: Check belt for proper routing in all mower pulley grooves.
 Install belt into electric clutch pulley groove.
- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in R.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Slide right side of mower back and install link in top hole of R.H. front mower bracket. Retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs with loops down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.



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 properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, 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 properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

✓ CHECKLIST

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

PLEASE REVIEW THE FOLLOWING CHECKLIST:

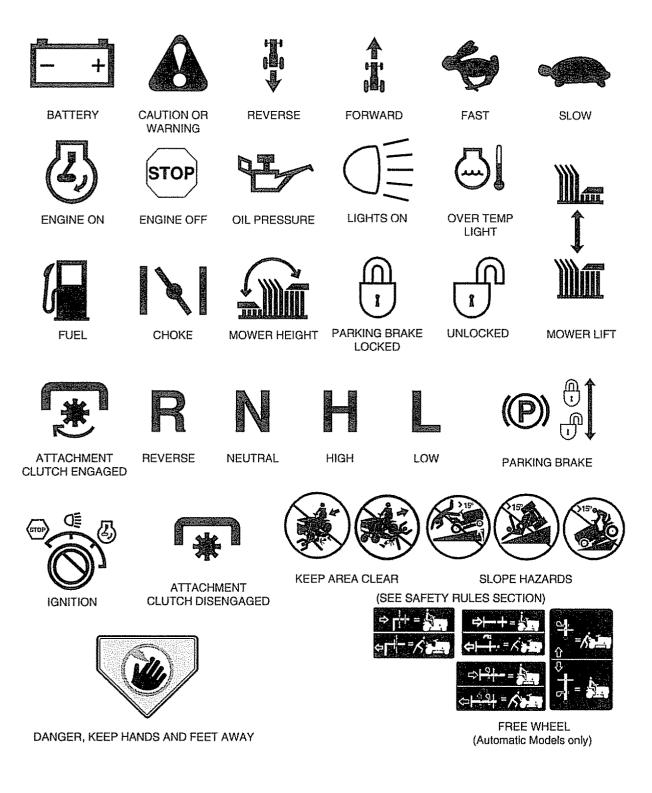
- All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- Seat is adjusted comfortably and tightened securely.
- All tires are properly inflated. (For shipping purposes, the tires were overinflated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

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.
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

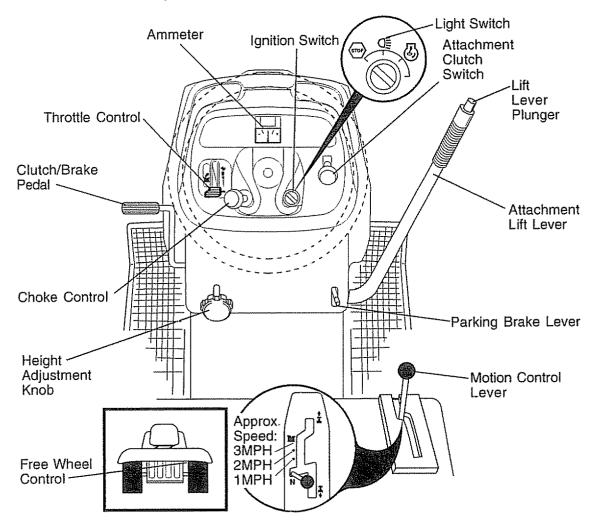
OPERATION

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



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

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



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

ATTACHMENT CLUTCH 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.

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

CHOKE CONTROL - Used when starting a cold engine.

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

IGNITION SWITCH - Used for starting and stopping the engine.

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.

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

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

MOTION CONTROL LEVER - Selects the speed and direction of tractor. FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.

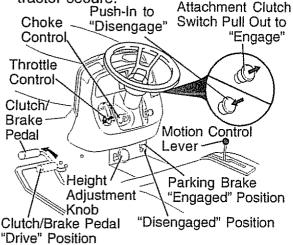


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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



STOPPING

MOWER BLADES -

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

GROUND DRIVE -

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

IMPÓRTANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

ENGINE -

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

 Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use. • Never use choke to stop engine. **IMPORTANT:** Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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

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

TO USE THROTTLE CONTROL

Always operate engine at full throttle.

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

TO 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 motion control lever.

- Start tractor with motion control lever in neutral (N) position.
- Release parking brake and clutch/ brake pedal.
- Slowly move motion control lever to desired position.

TO ADJUST MOWER CUTTING HEIGHT

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

- Turn knob clockwise (→) to raise cutting height.
- Turn knob counterclockwise () to lower cutting height.

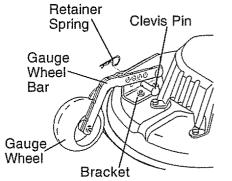
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO ADJUST GAUGE WHEELS

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

- Adjust gauge wheels with tractor on a flat level surface.
- · Adjust mower to desired cutting height.
- Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
- Replace retainer springs into clevis pins.

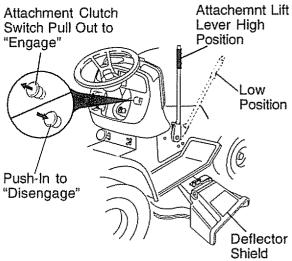


TO OPERATE MOWER

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

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

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 motion control lever to slowest setting.

IMPORTRANT: The motion control lever does not return to neutral (N) position when the clutch/brake pedal is depressed.

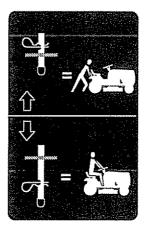
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Slowly move motin control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

When pushing or towing your tractor, be sure to disengage transmission by placing freewheel control in freewheeling position. Free wheel control is located at the rear drawbar of tractor.

- Raise attachment lift to highest position with attachment lift control.
- Remove retainer spring from freewheel control rod.
- Push control rod in to disengage transmission and reinsert retainer spring into control rod hole now on back side of the bracket.
- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

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



TOWING CARTS AND OTHER ATTACHMENTS

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

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

- 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.

• Be sure freewheel control is in the transmission engaged position.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control 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.

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

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

WARM WEATHER STARTING (50° F and above)

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

COLD WEATHER STARTING (50° F and below)

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

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.
 - Place the motion control lever in neutral. Release the parking brake and let the clutch/brake slowly return to operating position.
 - Allow one minute for transmission to warm up. This can be done during the engine warm up period.
- The attachments can be used during the engine warm-up period after the transmission has been warmed up and may require the choke control be pulled out 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 CARBURE-TOR" in the Service and Adjustments section of this manual.

PURGE TRANSMISSION

ACAUTION: Never engage or disengage freewheel lever while the engine is running.

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

IMPORTANT: Should your transmission require removal for service or replacement, it should be purged after reinstallation before operating the tractor.

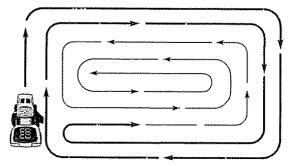
- Place tractor safely on level surface with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/ brake pedal.
- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds.

NOTE: During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- Move motion control lever to neutral (N) position. Shut- off engine and set parking brake.
- Engage transmission by placing freewheel control in driving position (See "TO TRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to half (1/2) speed. With motion control lever in neutral (N) position, slowly disengage clutch/ brake pedal.
- Slowly move motion control lever forward, after the tractor moves approximately five (5) feet, slowly move motion control lever to reverse position. After the tractor moves approximately five (5) feet return the motion control lever to the neutral (N) position. Repeat this procedure with the motion control lever three (3) times.
- Your tractor is now purged and now ready for normal operation.

MOWING TIPS

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



	MAINTENANCE												
AS	MAINTENANCE SCHEDUL L IN DATES S YOU COMPLETE GULAR SERVICE	.E	SEFORE.	EVERY	SHOUR HOUR	3 HOUR	AS HOUS	15 HOU	AS LASON LEFORT	SEF	RVICI	E DA	TES
	Check Brake Operation	~	11				and a second		T	ļ			1
	Check Tire Pressure	4	V	1		1		1	1	1	1	1	
Т	Check Operator Presence and Interlock Systems	~											
R	Check for Loose Fasteners	~		T		V7	1	~	1		1		
A C	Sharpen/Replace Mower Blades			V 4					1		1		
Ť	Lubrication Chart			2			1	6		T		1	
o l	Check Battery Level		1	V 6	1			1	1	1		-	
R	Clean Battery and Terminals			6/	1			~		1	1		
	Check Transaxle Cooling			6	1	T		-		1	1		
	Adjust Blade Belt(s) Tension					15		1	-	1			
	Adjust Motion Drive Belt(s) Tension					Vs				1			
	Check Engine Oil Level	V	1	1	1	1			I		1	1	
	Change Engine Oil		1	1,2,3				4	1	+	1		
E	Clean Air Filter			1/2	1	-	1		l				
N	Clean Air Screen	1		1/2			1	1					
G	Inspect Muffler/Spark Arrester	Î			V	-	ł		1		-		
N	Replace Oil Filter (If equipped)			-	1	V1.2			1	1	1		
E	Clean Engine Cooling Fins		1	1		1 2	1	1		1	1		
	Replace Spark Plug	1	1	1		V	~	1	1	1			1
	Replace Air Filter Paper Cartridge	1	1	1	1	V 2	1		1	1	1	<u> </u>	
	Replace Fuel Filter		1	1	1		2		1	1	1		

1 - Change more often when operating under a heavy load or in high ambient temperatures 5 - If equipped with adjustable system

2 - Service more often when operating in dirty or dusty conditions

3 - If equipped with oil filter, change oil every 50 hours

4 - Replace blades more often when mowing in sandy soil

GENERAL RECOMMENDATIONS

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

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

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

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

BEFORE EACH USE

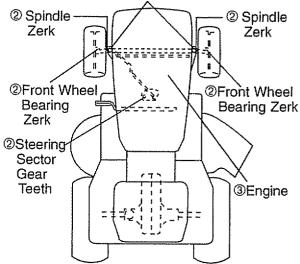
- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check operator presence and interlock systems for proper operation.
- Check for loose fasteners.

LUBRICATION CHART

Do not overlighten

6 - Not required if equipped with maintenance-tree battery
 7 - Tighten front axle pivot bolt to 35 ft -lbs maximum

① Tie Rod Ball Joints



①Spray Silicone Lubriant (Move Boots to Lubricate)

@General Purpose Grease

③Refer to Maintenance "ENGINE" Section IMPORTANT: Do not oil or grease the pivot points which have special nylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings If you feel they must be lubricated, use only a dry, powdered graphite type

19 lubricant sparingly.

TRACTOR

Always observe safety rules when performing any maintenance. **BRAKE OPERATION**

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

TIRES

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

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

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

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

BLADE CARE

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

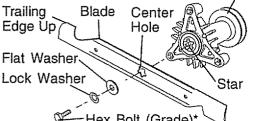
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is Grade 8 heat treated. Mandrel Assembly



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

TO SHARPEN BLADE

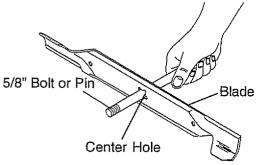
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer.)

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

 Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.



BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

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

V-BELTS

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

TRANSAXLE COOLING

The transmission fan and cooling fins should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot. To prevent possible damage to seals, do not use high pressure water or steam to clean transaxle.

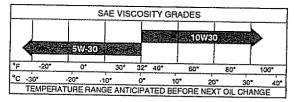
- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials. To prevent damage to seals, do not use compressed air or high pressure sprayer to clean cooling fins.

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required for the life of the transaxle. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

ENGINE LUBRICATION

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



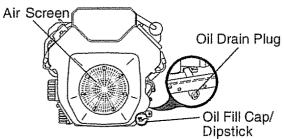
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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.

TO CHANGE ENGINE OIL

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

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



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.

Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth. Allow it to dry.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

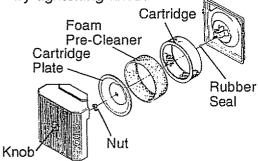
TO SERVICE CARTRIDGE

Replace a dirty, bent, or damaged cartridge.

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

- · Remove nut and cartridge plate.
- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Check rubber seal for damage and proper position around stud. Replace if necessary.

- Reassemble air cleaner, cartridge plate, and nut.
- 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 plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.



CLEANING

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

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a short-22 ened engine life.

SERVICE AND ADJUSTMENTS

ACAUTION: Before performing any service or adjustments:

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

TRACTOR

TO REMOVE MOWER

- Place attachment clutch in "DISEN-GAGED" position.
- Turn height adjustment knob to lowest setting.
- · Lower mower to its lowest position.
- Remove retainer spring holding antiswaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Remove two retainer springs from each front link and remove links.
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

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

TO INSTALL MOWER

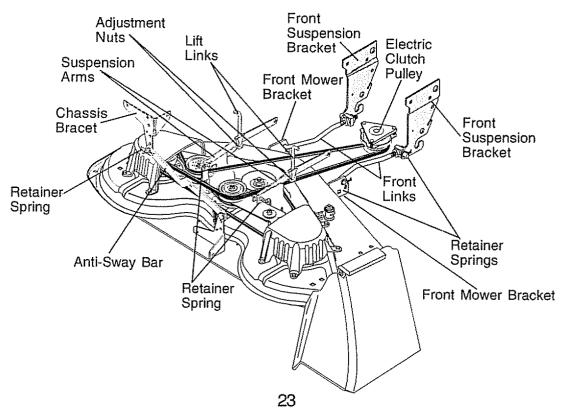
Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

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 your mower.

SIDE-TO-SIDE ADJUSTMENT

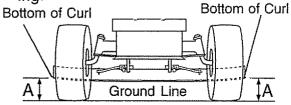
- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.



- 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 3/16".

• Recheck measurements after adjusting.



FRONT-TO-BACK ADJUSTMENT IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. if the following front-toback adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

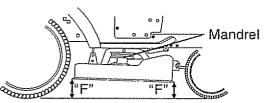
To obtain the best cutting results, the mower housing should be adjusted so the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

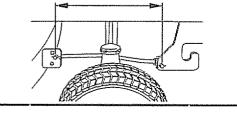
- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.
- To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

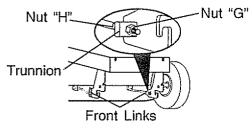
NOTE: Each full turn of nut "G" will change dim. "F" by approximately 3/8".

• Recheck side-to-side adjustment.



Both Front Links Should be Equal in Length





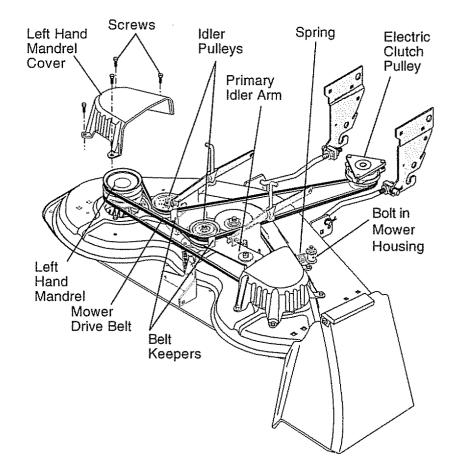
TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

- Park tractor on a level surface. Engage parking brake.
- Remove screws from L.H. mandrel cover and remove cover.
- Roll belt over the top of L.H. mandrel pulley.
- Remove belt from electric clutch pulley.
- Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION

- Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
- Install new belt onto electric clutch pulley.
- Roll belt into upper groove of L.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.
- Reassemble L.H. mandrel cover.

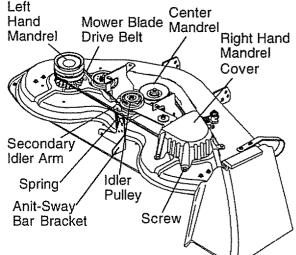


TO REPLACE MOWER BLADE DRIVE BELT

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 R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
- Carefully roll belt off R.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and L.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 to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.

- Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
- Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

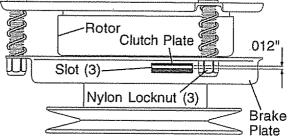


TO ADJUST ATTACHMENT CLUTCH

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by your nearest authorized service center/ department.

- Make sure attachment clutch and ignition switches are in "OFF" position.
- Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the side of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.

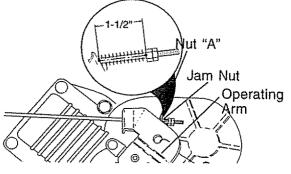


TO ADJUST BRAKE

Your tractor is equipped with an adjustable brake system which is mounted on the right side of the transaxle. If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

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

With Parking Brake "Engaged"



TO REPLACE MOTION DRIVE BELT

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

 Remove mower (See "TO REMOVE MOWER" in this section of this manual.)

BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove belt from clutching and fan idler pulleys.
- Loosen belt keeper above transaxle pulley.
- Remove belt from transaxle pulley.
- Remove belt from engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers and remove from tractor.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of all belt keepers.
- Route belt on right side, coming from V-idler, towards back of tractor, above midspan belt keeper and to top of transaxle pulley.
- Route belt on left side, coming from engine pulley, towards back of tractor and through loop in midspan belt keeper.
- Place V part of belt into grooves on transaxle and fan idler pulleys, making sure to route belt inside of all belt keepers.

Tractor V-Belt Drive Schematic Viewed From L.H. Side of Tractor Transaxle Pulley Belt Keeper Clutching Idler Engine **Clutching Flat Idler** Pulley Above Belt Keeper V-Idler **Belt Keepers Belt Twists** Belt Keeper Fan Idler Engine Pulley V-Idler As Viewed From Bottom

- Retighten belt keeper above transaxle pulley.
- Place belt around clutching idlers as shown, making sure to route belt inside of all belt keepers.
- Check to be sure belt is positioned correctly and is on proper side of all belt keepers.
- Reinstall mower.

IMPORTANT: Check brake adjustment. TRANSMISSION REMOVAL/REPLACE-MENT

Should your transmission require removal for service or replacement, it should be purged after reinstallation and before operating the tractor. See "PURGE TRANSMISSION" in the Operation section of this manual.

TO ADJUST MOTION CONTROL LEVER

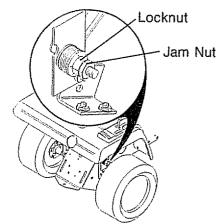
The motion control lever has been preset at the factory and adjustment should not be necessary.

If for any reason the motion control lever will not hold its position while at a selected speed, it may be adjusted at the friction pack located on the right side of chassis.

- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
- Place motion control lever in neutral (N) position.
- While holding locknut, loosen jam nut
- Tighten locknut 1/4 turn.
- While holding locknut, tighten jam nut securely.

NOTE: If for any reason the effort to move the motion control lever becomes too excessive, reverse the above adjustment procedure by loosening locknut 1/4 turn.

Road test tractor after adjustment and repeat procedure if necessary.



TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN

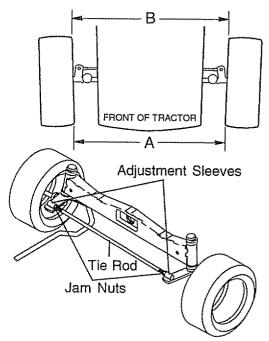
- Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN

- Loosen jam nuts at adjustment sleeves on tie rod.
- Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
- Tighten jam nuts securely.

FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center/ department.



TO REMOVE WHEEL FOR REPAIRS

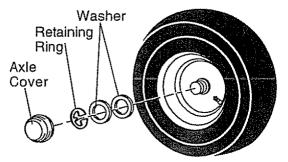
FRONT WHEEL

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal.
- · Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- · Replace axle cover.

REAR WHEEL

- Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- Repair tire and reassemble. Replace and tighten hub bolts securely.

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



TO START ENGINE WITH A WEAK BATTERY

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

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

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

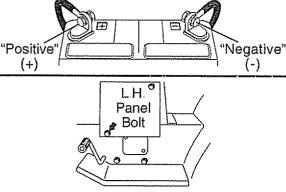
TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.

 Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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

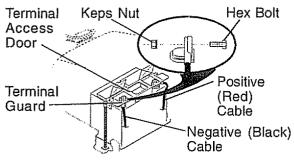


REPLACING BATTERY

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

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

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



TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

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

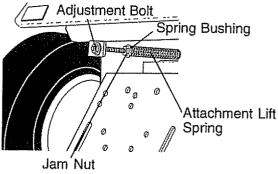
TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO ADJUST ATTACHMENT LIFT SPRING

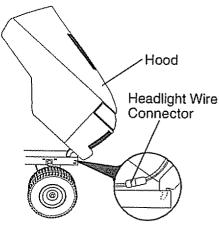
- While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort for heavier attachments.
- Turn adjustment bolt counterclockwise for lighter attachments.
- Retighten jam nut against spring bushing.

IMPORTANT: Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



TO REMOVE HOOD AND GRILL ASSEMBLY

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



ENGINE

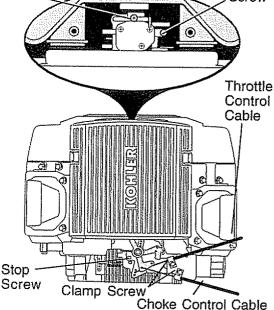
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet. **TO ADJUST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

TO ADJUST THROTTLE CONTROL CABLE

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

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

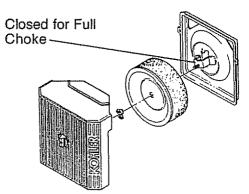
Idle Fuel Adjusting Idle speed Adjusting Needle



TO ADJUST CHOKE CONTROL

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

- With engine not running, move choke control (located on dash panel) to full choke position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (See "AIR FILTER" in the Maintenance section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.



TO ADJUST CARBURETOR

The carburetor has been 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). 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.
- 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.
- 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 eninge governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has proper equipment and experience to make any necessary adjustments.

STORAGE

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

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

TRACTOR

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

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

BATTERY

- · Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Maintenance section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels 9called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

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

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

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

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

OTHER

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

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

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	 Clutch/brake pedal not depressed. Attachment clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). 	 Depress clutch/brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	 Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. 	 Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. 	 Set in "Higher Cut" position/ reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil.

TROUBLESHOOTING CHART

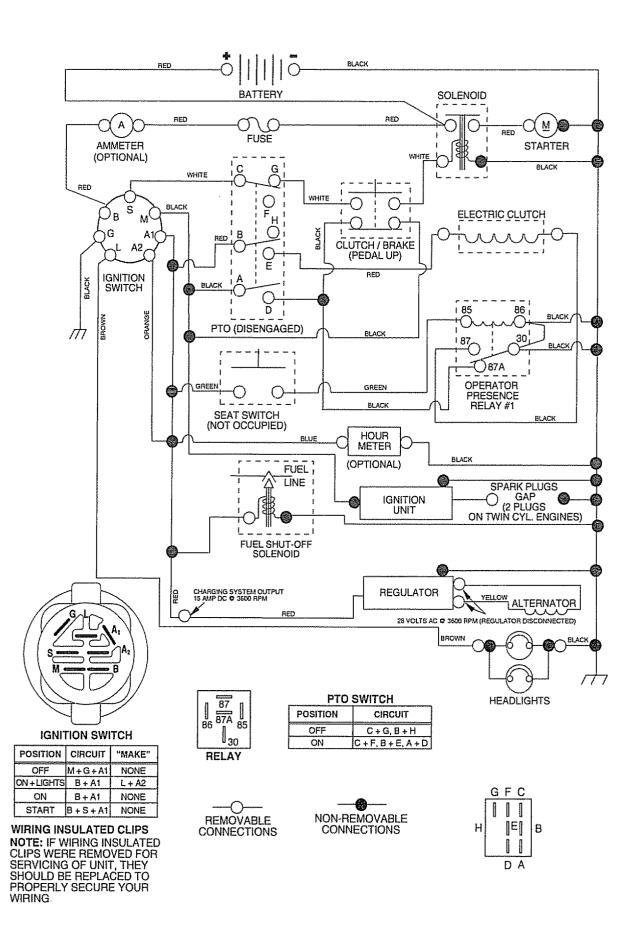
PROBLEM	CAUSE	CORRECTION			
Loss of power Continued	Faulty spark plug.	Clean and regap or change			
Continueu	Dirty fuel filter.	spark plug. Replace fuel filter.			
	Stale or dirty fuel.	 Drain fuel tank and refill with 			
	• Water in fuel.	fresh gasoline.Drain fuel tank and carburetor, refill tank with fresh gasoline			
	Spark plug wire loose.	 and replace fuel filter. Connect and tighten spark plug wire. 			
	 Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. 	 Clean engine air screen/fins. Clean/replace muffler. Check all wiring. 			
	• Carburetor out of adjustment.	 See "To Adjust Carburetor" in Service Adjustments section 			
	 Engine valves out of adjustment. 	Contact an authorized service center/department.			
Excessive vibration	• Worn, bent or loose blade.	 Replace blade. Tighten blade bolt. 			
	 Bent blade mandrel. Loose/damaged part(s). 	 Replace blade mandrel. Tighten loose part(s). Replace damaged parts. 			
Engine continues to run when operator leaves seat with attach- ment clutch engaged	 Faulty operator-safety presence control system. 	 Check wiring, switches and connections. If not corrected, contact an authorized service center/department. 			
Poor cut - uneven	 Worn, bent or loose blade. 	Replace blade. Tighten blade bolt.			
	 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. 	 Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. 			
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive 	 Remove obstruction. Replace mower drive belt. 			
	belt. • Frozen idler pulley. • Frozen blade mandrel.	 Replace idler pulley. Replace blade mandrel. 			
Poor grass discharge	 Engine speed too slow. 	 Place throttle control in "FAST" position. 			
aloonargo	 Travel speed too fast. Wet grass. 	 Shift to slower speed. Allow grass to dry before mowing. 			
	 Mower deck not level. Low/uneven tire air pressure. 	 Level mower deck. Check tires for proper air pressure. 			

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION			
Poor grass discharge (Contn)	 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. 	 Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. 			
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s). Check/replace light switch. Check wiring and connections Replace fuse. 			
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator. 			
Loss of Drive	 Freewheel control in "disengaged" position. Motion drive belt worn, damaged or broken. Air trapped in transmission during shipment or servicing. 	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. 			
Engine "backfires" when turning engine "OFF"	 Engine throttle control at "SLOW" position for 30 seconds before stopping engine. 	 Move throttle control to not set "SLOW" position and allow to idle for 30 seconds before stopping engine. 			

TRACTOR -- MODEL NUMBER 917.273101

SCHEMATIC

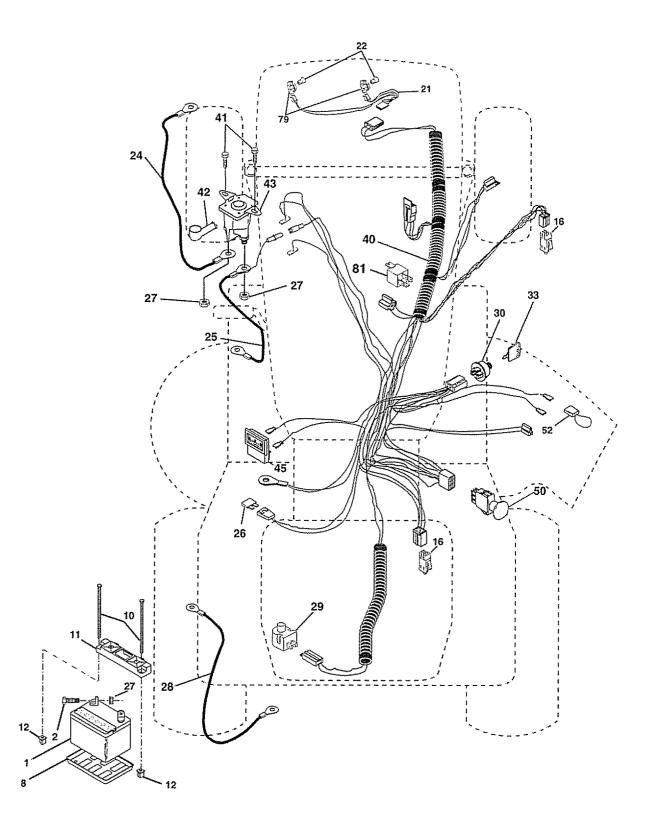


REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.273101

ELECTRICAL

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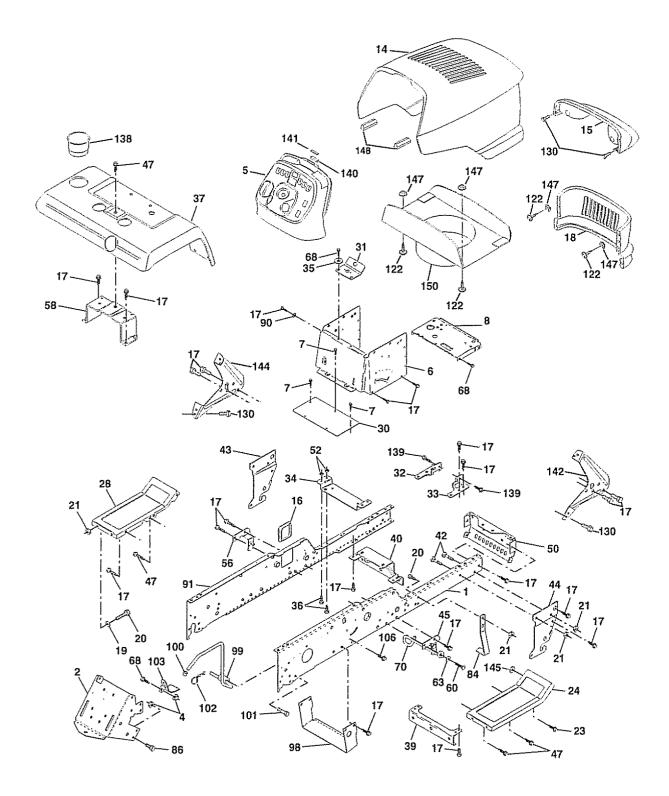


ELECTRICAL

KEY NO. 1 2 8 10 11 12 16 21 22 24 25 26 27 28 29 30 33 40	NO. 144927 74760412 7603J 145211 150109 145769 153664 166184 4152J 4014J 146686 108824X 73510400 170697 160784 163968 140403 170238	DESCRIPTION Battery Bolt Hex Head 1/4-20 x 3/4 Tray, Battery Bolt 1/4-20 x 7.5 Zinc Hold down Battery Dash Mount Nut Push Nylon 1/4" Switch Interlock Push-In Harness Socket Light W/4152J Bulb Light Cable, Battery Cable, Battery Cable, Battery Fuse Nut Keps Hex 1/4-20 Unc Cable, Ground Switch, Plunger Switch, Ign Key, Ignition Harness Ign.
30	163968	Switch, Ign
41	17720408	Screw 1/4-20 x 1/2
42	131563	Cover, Terminal
43	145673	Solenoid
45 50	122822X 169416	Ammeter Switch, PTO
50 52	141940	Protection Wire Loop
79	163996	Bulbholder Asm Incandescent SV
81	109748X	Relay Asm

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

TRACTOR -- MODEL NUMBER 917.273101 CHASSIS AND ENCLOSURES



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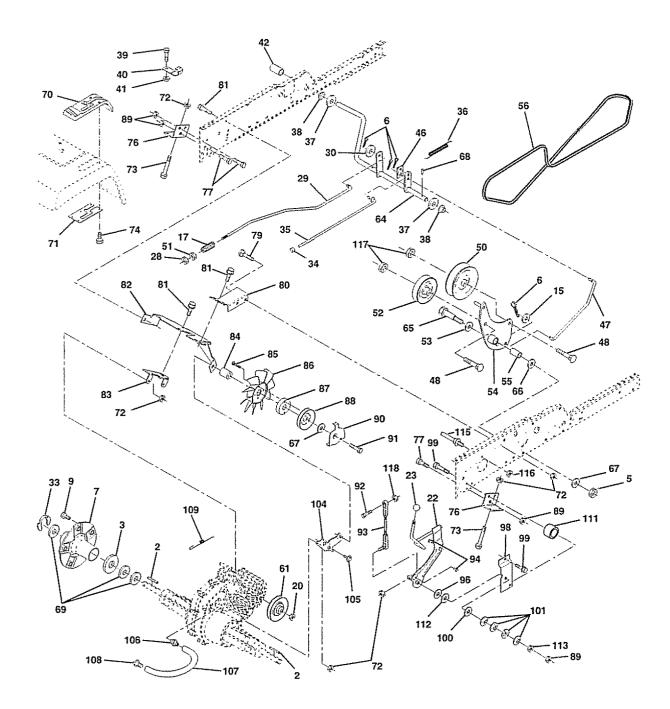
CHASSIS AND ENCLOSURES

KEY NO. 1 2 4 5 6 7 8 14 5 16 7 8 14 14 14 14 14 14 14 14 14 14 14 14 14	PART NO. 150253 140506 73800700 163976 157882 17720408 145166 161023X558 160568 121794X 17060612 160564X558 19131312 STD523710 STD541437 17060616 145243X558 145244X558 145244X558 145244X558 145244X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 145243X558 14533710 136939 136940	DESCRIPTION Rail, Frame RH Drawbar, Gt Nut, Lock Hex 7/16 Unc Dash YTGT 2 Cyl Dash, Lower Vgt One Piece Screw, Thd Cut 1/4-20 x 1/2 Support, Battery Hood Asm., Pnt YTGT Lens Asm Headlight Bar Cover, Access Screw 3/8-16 x 75 Grille Washer 13/32x13/16x12 Ga. Bolt, Fin Hex 3/8-16 x 1 Nut Crownlock 3/8-16 Unc Screw 3/8-16 x 1.5 Footrest, RH Footrest, LH Saddle, Hydro Brace, Supt 1-pc VGT Bracket, Pivot Chassis Lh Bracket, Engine Support Rear Washer 11/32x11/16x16 Ga. Bolt, Fin Hex 5/16-18 x 3/4 Fender Pnt Bracket, Axle Front Bracket, Support Axle/Engine Bolt, Carriage 3/8-16 x 1 Bracket, Spnsn Front Lh Bracket, Spnsn Front Lh	KEY NO. 52 56 58 60 63 68 70 84 86 90 91 99 100 102 103 102 138 139 140 141 142 144 145 147 148 150	PART NO. STD541431 154914 137113 17490620 19131614 17490508 137159 142992 74760716 STD551237 170755 140503 140871 124236X 17490628 STD624003 142273 138776 161464 164863 163975X428 161330 163806 163805 161897 161900 19131414 162967 164655 161237	DESCRIPTION Nut, Crownlock 5/16-18 Unc Bracket Asm., Susp Chas Lh Bracket Asm., Fender Screw Thdrol 3/8-16 x 1-1/4 Washer 13/32 x 1 x 14 Ga. Screw Thdrol. 5/16-18 x 1/2 Guide, Belt Mid Span Stop, Over Center Mower Bolt Fin Hex 7/16-14 UNC x 1 Washer, Lock Ext. Tooth 3/8 Rail, Frame Lh Bracket Skid Chassis Rod By Pass Cap By Pass Rod Screw Thdrol 3/8-16 x 1-3/4 Retainer, Spring Lock, By Pass Bolt 5/16-18 TT Screw Hex Wshd 8-18 x 7/8 Screw Hwhd Hi-Lo#13-16x3/4 Cup Holder Bolt Shoulder 5/16-18 TT Magnet YTGT Striker Plate YTGT Bracket Dash Lh Washer Flat 13/32x7/8x14 Ga. Fastener Nut Pal Extrusion Bumpers Duct Heat Hood
42	STD533710	Bolt, Carriage 3/8-16 x 1			
43 44	136939 136940	Bracket, Spnsn Front Lh Bracket, Spnsn Front Rh	150	161237	
45 47 50	154913 17490608 152728	Bracket Asm., Susp Chas.Rh Screw Thdrol. 3/8-16 x 1/2 Bracket, Chassis Front		All component nches 1 inch = :	dimensions given in U. S. 25/4 mm

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GROUND DRIVE

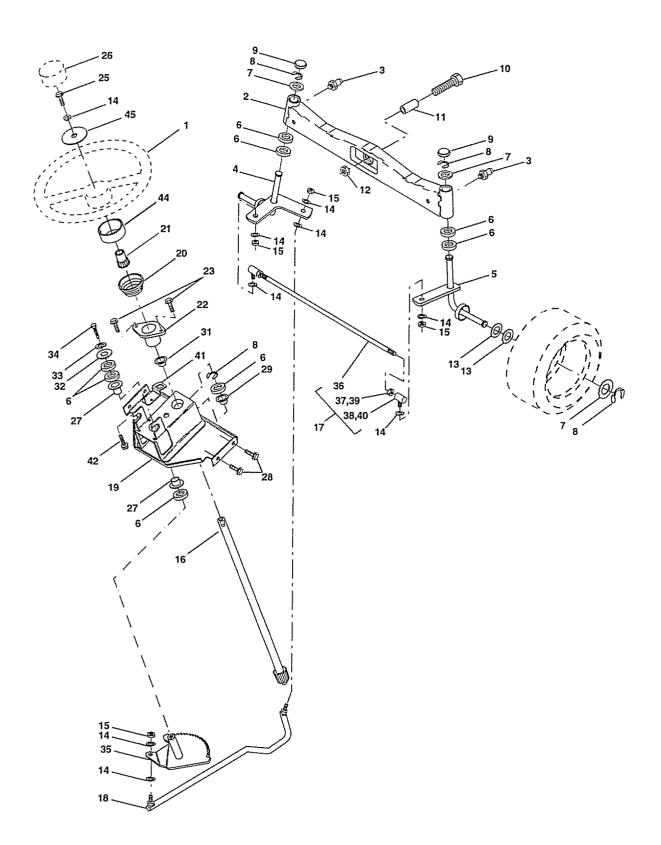
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GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle (See Breakdown)	71	151179	Plate Console Shift
•		Hydro Gear 222-3010	72	STD541431	Nut, Crownlock 5/16-18
2	7070E	Key 1/4 x 2.5	73	74490548	Bolt Hex Fighd 5/16-18x3 Gr5
3	7563R	Washer, Thrust, Axle	74	142432	Screw Hex Wsh, Hi-Lo 1/4-12
5	STD541437	Nut, Crownlock 3/8-16	76	140481	Bracket Transaxle
6	STD561210	Pin, Cotter	77	74760716	Bolt Fin Hex 7/16-14 x 1
7	140507	Wheel, Hub Assembly	79	72110505	Bolt Carriage 5/16-18 x 5/8
9	140080	Bolt, Hub	80	140484	Bracket Torque RH
15	STD551037	Wahser 13/32x13/16x16 Ga.	81	17490612	Screw Thdrol 3/8-16 x 3/4
17	140921	Spring	82	150586	Bracket Mount Torque/Fan
20	73940800	Nut Hex Jam Toplock 1/2-20	83	140479	Strap Torque Mid
22	156103	Arm Asm Shift	84	140490	Spacer
23	130564	Knob	85	17541020	Screw #10-24 x 1-1/4
28	STD541237	Nut	86	140462	Fan 7" Hydro
29	140494	Brake, Rod	87	140491	Adapter Fan
30	19131616	Washer 13/32 x 1 x 16 Ga	88	161592	Pulley Idler
33	12000053	RingE	89	73680700	Nut Crownlock 7/16-14 Unc
34	124236X	Cap, Plunger	90	140489	Keeper Belt
35	137648	Rod, Parking Brake	91	17490644	Screw Thdrol 3/8-16 x 2-3/4
36	149412	Spring, Drive Ground	92	74760520	Bolt Fin Hex 5/16-18 x 1.25
37	121749X	Washer 25/32x1-1/4x16 Ga.	93	140502	Link Shift Asm
38 39	150035	Nyliner	94 92	133835	Fastener Christmas Tree
39 40	74321016 5304J	Screw, Fin. #10-24 x 1 Actuator, Interlock Switch	96 98	141103	Washer Nickel Plated
40 41	73661000	Locknut #10-24	98 99	141004	Bracket Shift
42	8883R	Cover, Pedal	99 100	17060624 126881X	Screw 3/8-16 x 1-1/2
46	145170	Retainer, Spring	101	156106	Washer Compression Washer Bellville
47	138228	Clutch Rod	101	140480	Bracket Idler
48	72110612	Bolt, Carri. 3/8-16x1-1/2 Gr. 5	105	17580408	Screw Tap 1/4-20 x 1/2
50	131494	Pulley, Idler, Flat	106	142918	O-Ring Asm Hydro Gear
51	STD541437	Nut, Crownlock 3/8-16 UNC	,00	1-12010	70110
52	139123	Pulley, Idler, Grooved	107	154739	Line Fuel Hydro 15" VGT
53	207J	Washer, Hardened	108	142917	Cap Asm Vent Hydro Gear
54	161590	Clutch, Arm Assembly			70109
55	105706X	Bearing, Idler	109	140929	Spring Return Brake
56	140218	V-Belt	111	156240	Spacer Shift Lever VGTH
58	74760724	Bolt Fin Hex 7/16-14 x 1-1/2	112	156104	Washer Nylon High Temp
61	140488	Pulley, Transaxle	113	73220700	Nut-Hex ASF 7/16-14 UNC
64	154752	Shaft, Clutch/Brake Pedal	115	123405X	Keeper Belt T/A Gnd Dr
65	67609	Bolt, Shoulder	116	73900500	Nut Lock Hex Flange 5/16-18
66	140296	Washer, Hardened	117	73900600	Nut, Lock Flg. 3/8-16
67	19131312	Washer, Flat			-
68	STD571812	Pin, Roll	NOTE.	All component	dimensiona rivas in 11.0
69	123800X	Washer		All component nches 1 inch = 1	dimensions given in U.S.
70	164892X428	Console Automatic YT/GT	11		cur+ 11111

STEERING



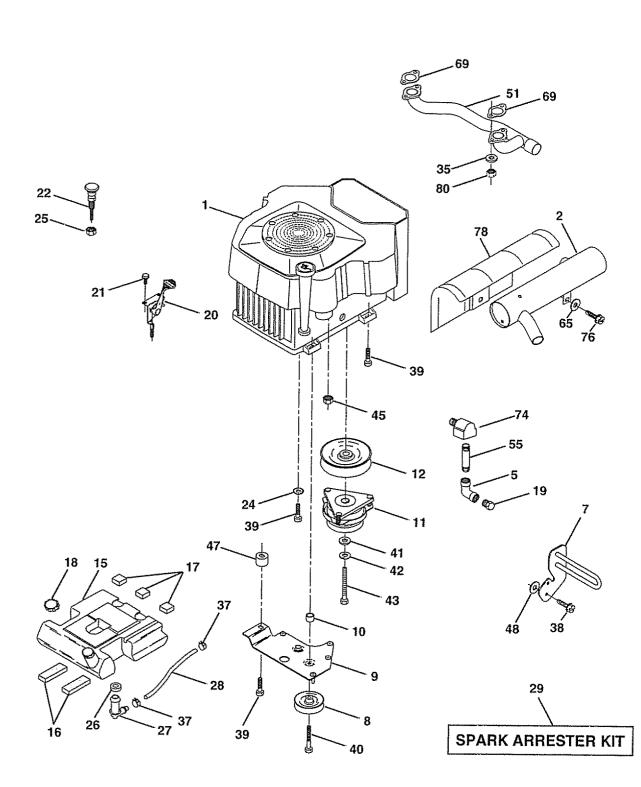
STEERING

KEY NO.	PART NO.	DESCRIPTION
$1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \\ 8 \\ 9 \\ 10 \\ 11 \\ 2 \\ 11 \\ 11 \\ 11 \\ 11 \\ 11 $	159944X428 137094 6855M 161849 161848 6266H 121748X 12000029 121232X 74781044 136518 73901000 121749X STD551137 STD541537 145103 137347 137155 156011 163887 15945 155105 152927 74780616 159945 155105 152927 74780616 159946X428 3366R 17000612 104239X 12000034 138136 19111610 STD551131 74760512 138059 137156 73360600 109850X 73700600 109851X 155246 17490508 160135 19132411	Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm, LH Spindle Asm, RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer Bearing Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hicl Spr 3/8 Nut, Lock Center 3/8-24 UNF Shaft Asm., Steering Rod Asm., Tie Ball J Ball Vgt (Inc Key No 36-40) Draglink, Ball Joint Solid Vgt Support Asm , Steering Vgt Boot, Steering Adapter, Wheel Steering Bushing, Strg. Blk Screw Bolt, Fin Hex 3/8-16 x 1 Gr. 5 Cap, Wheel Steering Bearing, Col Strg. Screw, 3/8-16 x 3/4 Bearing, Flange Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hicl Spr 5/16 Bolt, Hex Hd 5/16-18 x 3/4 Gear, Sector Steering Tie Rod Jam Nut LH Thread Joint Asm. Ball LH Thread Jam Nut LH Thread Jam Nut LH Thread Joint Asm. Ball LH Thread Bracket Switch Interlock VGT 97 Screw Thdrol 5/16-18 x 1/2 Tyt Extension, Steering Washer 13/32 x 1-1/20 x 11 Ga.

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

ENGINE

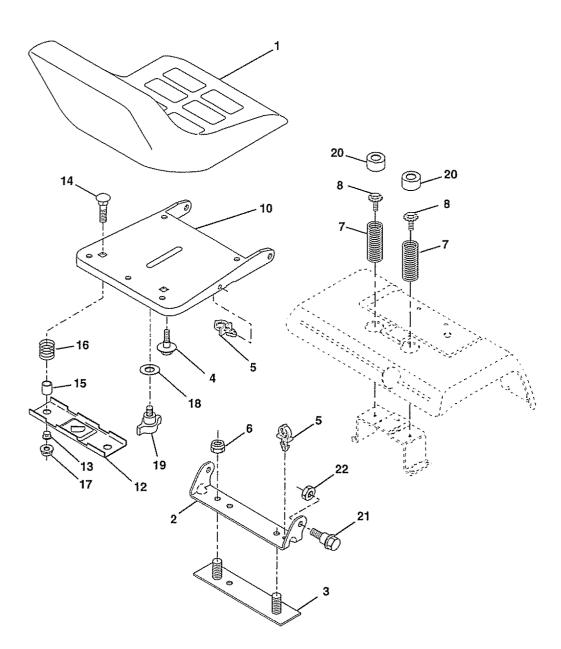
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KEY NO.	PART NO.	DESCRIPTION
		DESCRIPTION Engine (See Breakdown) Kohler Model No. CV24S-75532 Muffler Elbow STD 90 Degree 3/8 - 18 NPT Muffler Asm Guard Pulley V-Idler Keeper Asm. Belt Engine Bushing Clutch Electric Pulley Engine VGT Elect Clutch Tank Fuel Rear 3 50 Yt/Gt 96 Pad Spacer Pad Spacer Cap Asm Fuel W/Gauge Plug Oil Drain (See Engine Breakdown) Control Throttle Screw Hwhd Hi-Lo #13-16 x 3/4 Control Choke Washer Ext Tooth 3/8 Nut Keps 3/8 - 24 UNF Bushing Stem Tank Fuel Fuel Line Spark Arrester Kit Nut Lock Hex w/Ins. 3/8 - 16 Washer Split Clamp Hose Screw 3/8 - 16 x 1-1/1-4 Screw TT 3/8-16 x 2-1/4 UNC Screw TT 3/8-16 x 4 UNC Washer 1-1/2 OD X 15/32 ID X 250 Washer 1-1/2 OD X 15/32 ID X 250 Washer 1-1/2 OD X 4 - 1/4 Ga 5 Nut Keps Hex 1/4-20 UNC Spacer Engine Washer 13/32 x 1-1/4 x 7 Ga. Manifold Pipe VGT Washer Fiat 13/32 x 7/8 x 14 Ga. Nipple Pipe 4-1/2 Screw 3/8-16 x 3/4
64 69 74 78 80	17000612 19131614 24-041-02 162295 164323 M73030800	Screw 3/8-16 x 3/4 Washer 13/32 x 1 x 14 Ga. Gasket Kohler CV18-CV26 Elbow Street Brass Shield Muffler Stealth CV VGT Nut Flange M8-1 25 Non-Lk Zink
		-

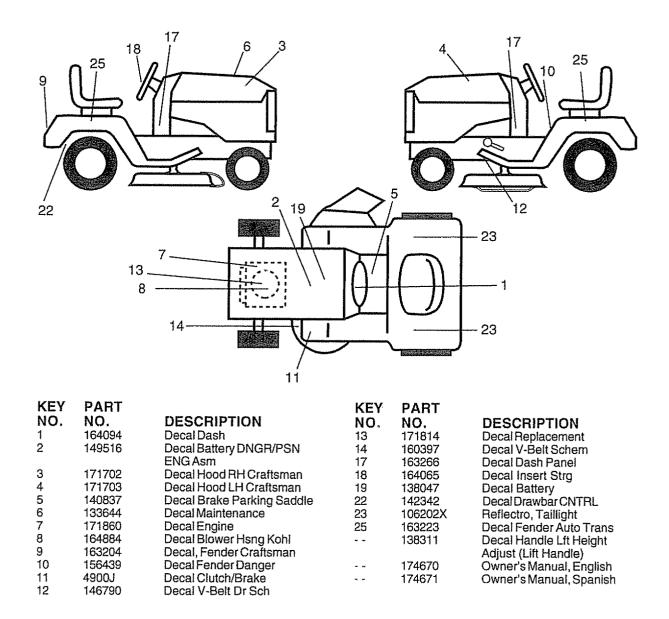
NOTE: All component dimensions given in U. S. inches 1 inch = 25/4 mm

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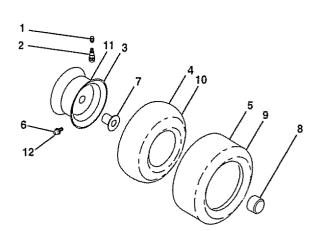


KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	140124	Seat	14	72050412	Bolt, Carriage 1/4-20 X 1-1/2
2	140551	Bracket, Pivot Seat	15	121249X	Spacer, Split
3	140675	Strap, Fender	16	123740X	Spring, Cprsn
4	127018X	Bolt, Shoulder 5/16-18 x 62	17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
5	145006	Clip, Push In, Hinged	18	19171912	Washer 17/32x1-3/16x12 Ga
6	STD541437	Nut, Crownlock 3/8-16 Unc	19	166369	Knob, Seat
7	124181X	Spring, Seat Cprsn	20	124238X	Cap, Spring Seat
8	171877	Bolt 5/16-18Uncx3/4 w/Sems	21	171852	Bolt, Shoulder 5/16-18
10	155925	Pan, Seat	22	STD541431	Nut, Crownlock 5/16-18 Unc
12 13	121246X 121248X	Bracket, Mounting Switch Bushing, Snap	NOTE:	All component inches 1 inch	t dimensions given in U. S. = 25/4 mm

DECALS



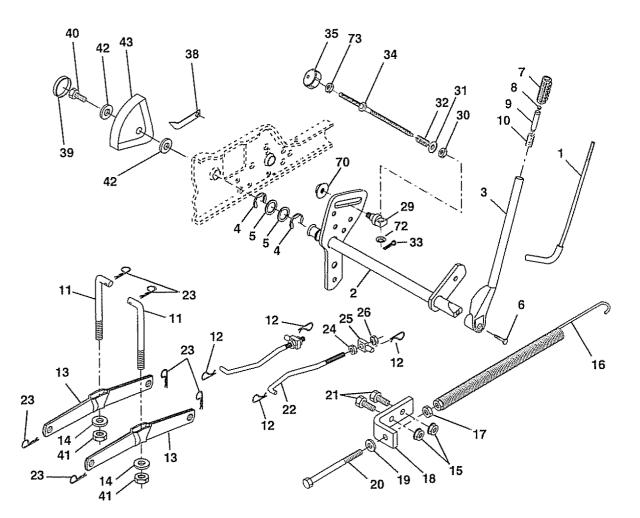
WHEELS AND TIRES



KEY	PART	
NO.	NO.	DESCRIPTION
1	59192	Cap Valve Tire
2	65139	Stem Valve
3	106228X427	Rim Asm Front
4	8134H	Tube, Front (Service Item
		Only)
5	106230X	Tire, Front
6	278H	Fitting Grease (Front Wheel
		Only)
7	9040H	Bearing Flange (Front Wheel
		Only)
8	104757X	Cap Axle (Front Wheel Only)
9	105588X	Tire Rear
10	7154J	Tube Rear (Service Item
		Only)
11	106227X427	Rim Asm Rear
12	6856M	Fitting Grease
	144334	Sealant, Tire (10 oz. Tube)

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

LIST ASSEMBLY

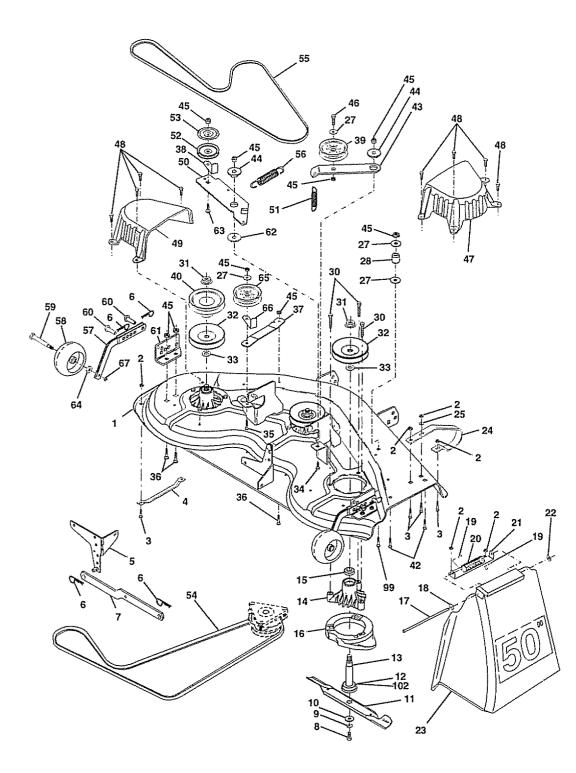


LIST ASSEMBLY

KEY NO. 1 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 2 2 3 4 5 6 7 8 9 10 11 2 2 3 4 5 6 7 8 9 10 11 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 1 2 2 3 4 5 8 9 10 11 2 2 3 4 5 8 9 10 1 12 2 3 4 5 8 9 10 1 2 2 3 3 4 5 8 9 9 0 1 2 3 3 4 5 8 9 9 0 1 2 3 3 3 4 5 8 9 9 0 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PART NO. 121006X 159187 159189 12000022 19292016 71110624 125631X 122364X 2876H 146704 163552 139868 140302 STD541437 674A247 STD541237 143363 STD551037 5328J STD551037 5328J STD523710 127218 STD624008 73350800 130171 73680800 150233 110807X STD551037 137150 STD551037 137150 STD55097 123935X 17490512 73540600 19112410 123934X 145212	DESCRIPTION Rod Asm., Lever Shaft Asm., Lift Vgt Lever Asm., Lift Rh E-Ring Truarc #5133-87 Washer 29/32 x 1-1/4 x 16 Ga. Bolt, Fin Hex 3/8-16 x 1-1/2 Grip, Handle Fluted Button, Plunger Plunger, Button Spring 2-1/8" Link Lift Retainer, Spring Arm, Suspension Vgt Bearing Nut, Crownlock 3/8-16 Unc Spring Asm., Assist Lift Nut, Hex Jam 3/8-16 Unc Bracket, Spring Assist Washer 13/32 x 13/16 x 16 Ga. Bolt, Adjust Spring Assist Bolt, Fin Hex 3/8-16 x 1 Link, Front Retainer, Spring Nut, Jam Hex 1/2-13 Unc Trunnion Nut Crownlock 1/2-13 Unc Trunnion, Infin Height Nut, Special Washer 13/32 x 5/8 x 16 Ga. Spring, Compression Inf Hgt Pin, Cotter 3/32 x 1/2 Rod, Adj Lift Knob, Inf 3/8-16 Unc Pointer, Height Indicator Plug, Hole Screw Hex Wsh 5/16-18 x 3/4 Nut, Crownlock 3/8-24 Washer 11/32 x 1-1/2 x 10 Ga. Scale, Indicator Height Nut Hex Flange Lock Nut Push Phos & Oil
43	123934X	Scale, Indicator Height
72	110452X	Nut Push Phos & Oil
NOTE:	All component of inches 1 inch =	dimensions given in U. S. = 25/4 mm

MOWER DECK

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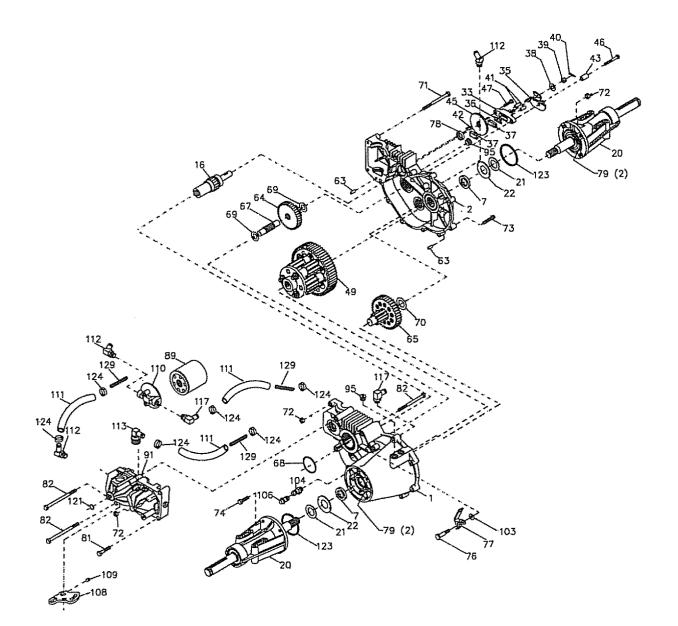


MOWER DECK

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KEY	PART	DECODIOTION	KEY	PART	
NO.	NO.	DESCRIPTION	NO,	NO.	DESCRIPTION
1	156990	Mower Deck Weldment 50	38	156085	Keeper, Belt Idler
2	STD541431	Nut, Crownlock 5/16-18	39	131494	Pulley, Idler Flat
3	72110506	Bolt, Carriage 5/16-18 x 3/4	40	136572	Pulley, Driven
4	7631J	Runner, Mower LH	42	STD533107	Bolt, Carr 5/16-18Uncx3/4
5	138457	Bracket Asm., Sway Bar	43	136460	Arm, Idler Secondary
6	STD624008	Retainer, Spring	44	165723	Spacer, Retainer
7	130832	Arm Suspension, Rear	45	STD541437	Nut, Crownlock 3/8-16 Unc
8	850857	Bolt 3/8-24 x 1 25 Gr 8	46	74760628	Bolt,Fin Hex 3/8-16Uncx1-3/4
_		Patched	47	137200	Cover, Mandrel RH
9	STD551137	Washer, Lock Hvy 3/8	48	137729	Screw, Thd Roll 1/4-20 x 5/8
		Unplated	49	136574	Cover, Mandrel LH
10	140296	Washer, Hard Blade Mower	50	137272	Arm, Idler Primary
		Vented	51	137273	Spring, Secondary
11	137380	Blade (3 Required)	52	139245	Pulley, Idler V Groove
12	129895	Bearing, Ball #6204	53	137789	Shield, Idler
		(Mandrel)	54	139573	V-Belt, Mower Primary
13	137553	Shaft Asm., W/Lower Brg	55	144959	V-Belt, Mower Secondary
		(Includes Key No. 12)	56	138687	Spring, Primary
14	137152	Housing, Mandrel 50" Vent	57	136577	Bar Asm., Wheel Gauge
15	110485X	Bearing, Ball Mandrel	58	133957	Wheel, Gauge
16	140329	Stripper, Mower Vented	59	137644	Bolt, Shoulder
17	106735X	Rod, Hinge	60	139031	Pin, Clevis
18	19111016	Washer 11/32 x 5/8 x 16 Ga.	61	136573	Bracket, Wheel Gauge
19	105304X	Cap, Sleeve	62	133943	Washer Hardened
20	123713X	Spring, Torsion Deflector	63	72110612	Bolt Carriage 3/8-16 x 1-1/2
21	137607	Bracket, Deflector	64	19121414	Washer 3/8 x 3/4 x 14 Ga
22	110452X	Nut, Push	65	151831	Pulley Idler Flat Mower
23	110509X	Shield, Deflector Mower	66	156009	Keeper, Belt Idler 44/50"
24	136320	Runner, RH	67	73930600	Nut, Centerlock 3/8-16
25	19111216	Washer 11/32 x 3/4 x 16 Ga.	99	72110614	Bolt, Carr. 3/8-16x1-3/4Gr. 5
27	STD551037	Washer 13/32x13/16x16 Ga.	102	153390	Washer, Felt
28	132823	Spacer, Spring Stop Idler			
30	157722	Screw Thdrol Washer Hd	~ ÷	143651	Mandrel Assembly (Includes
31	137266	Nut, Flg Top Lock Cntr 9/16			Key Nos. 8-10, 12-15, 31 and
32	153535	Pulley, Mandrel			33)
33	129963	Washer, Spacer Mower		158330	Deck Assembly - Service
	704 40040	Vented			(Std. Deck - Order Separately
34	72140610	Bolt, Carriage 3/8-16 x 1-1/4			All Nose Roller and Gauge
35	72110616	Bolt, Carriage 3/8-16 x 2			Wheel Components)
36	72110608	Bolt, Carriage 3/8-16x1 Gr 5	NOTE:		dimensions given in U.S.
37	137166	Stiffener, Arm Idler		inches 1 i	nch = 25/4 mm

TRACTOR -- MODEL NUMBER 917.273101 TRANSAXLE--MODEL NUMBER 222-3010L



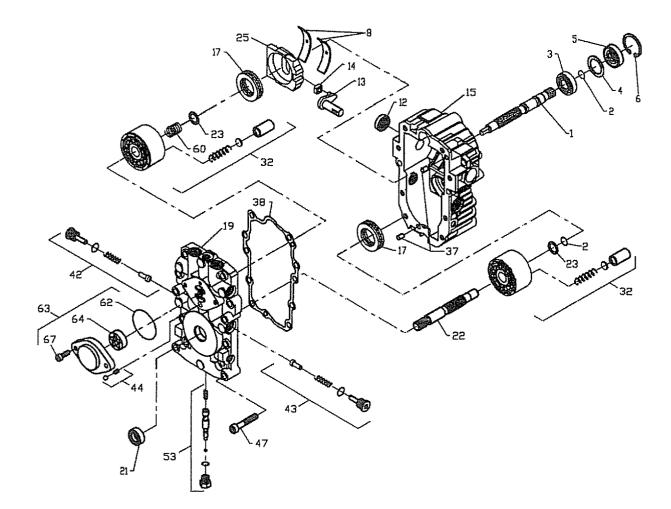
TRANSAXLE--MODEL NUMBER 222-3010L

	' PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2 7 16 20 21 22 33 35 36 37	164591 164592 153765 142876 142877 142878 142879 142929 142929 142880 142882 142883	Assembly, Housing, LH Assembly, Housing, RH Oil Seal .984 x 1.5 x .25 Brake Shaft Assembly Axle Mounting Horn Assembly Washer 1.0 x 1.63 x .08 Washer 1.0 x 2.06 x .09 Brake Yoke Assembly Brake Arm Puck Plate Brake Puck	72 73 74 76 77 81 82 89 91 95	153767 142904 142905 142907 142908 142909 153768 142910 142911 142912 153769 142914	Locknut, Hex 5/16-18 Bolt, Hex 5/16-18 x 1-1/2 Hex Cap Screw 5/16-18 x 1 Shoulder Bolt Freewheel Actuating Arm Oil Seal .625 x 1.0 x .25 Grease (10 oz. Tube) Bolt, Hex 5/16-18 x 1-3/4 Bolt 5/16-18 x 4-1/2 Filter, Spin On Pump, BDU-10L-122 Plug, Straight Thread
38	142884	Washer 7/8 O.D. x 7/16 x .060	96 103	153770 142916	60j 7/18 SAE x 5/16 Fitting Washer
39 40 41 42	142885 142886 142887 142888	Nut, Castle 5/16-24 Cotter Pin Brake Actuating Pin Hi Pro Key	109	142918 142919 142920	Vent Cap Assembly Fitting O-Ring Assembly Control Arm Set Screw
43 45 46 47	142889 142890 142891 142892	Spacer Brake Disc Bolt 1/4-20 x 1-1/2 Bolt 1/4-20 x 1		142921 150820 150823	Filter Head Hose 1/2" Fitting, 1/2" Beaded 90; 7/8 SAE
49 63 64	153766 142894 150818	Differential Assembly Dowel Pin Reduction Gear, 14 Teeth to 38 Teeth	113 117	150821 150822	Fitting, 1/2" Beaded 60; 9/16 Fitting, 1/2" Beaded 90; 9/16
65 67 68 69 70 71	142897 142898 142899 142900 142901 142902	Final Drive Pinion Assembly Jackshaft O-Ring Washer 5/8 X 1-5/32 Washer 7/8 X 1-1/2 Bolt, Hex 5/16-18 x 3.5	124 129	150824 150825 153771 E: All comp	O Ring Pinch Clamp Spring, Long ponent dimensions given in

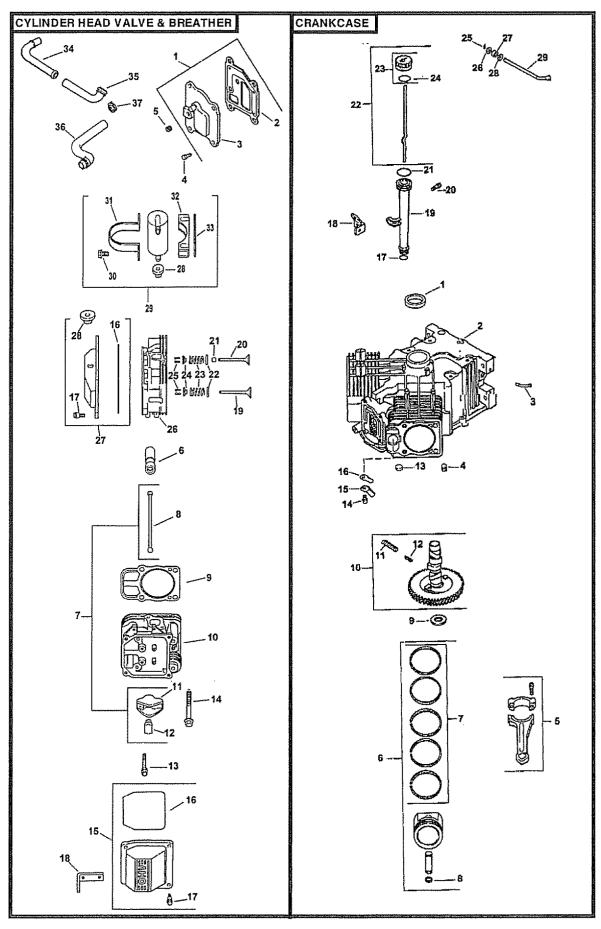
U.S. inches 1 inch = 25.4 mm

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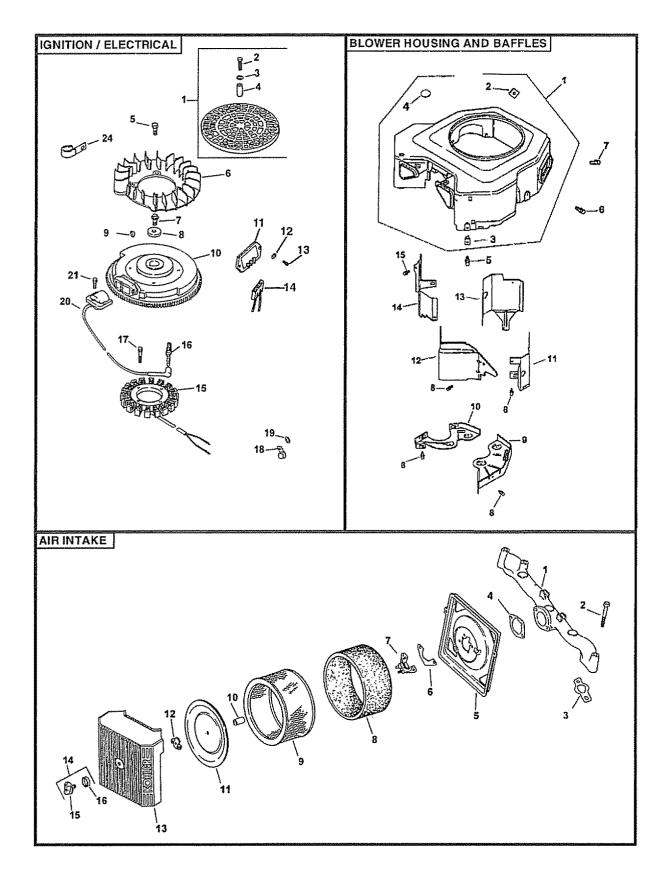
TRACTOR -- MODEL NUMBER 917.273101 TRANSAXLE--MODEL NUMBER 222-3010L

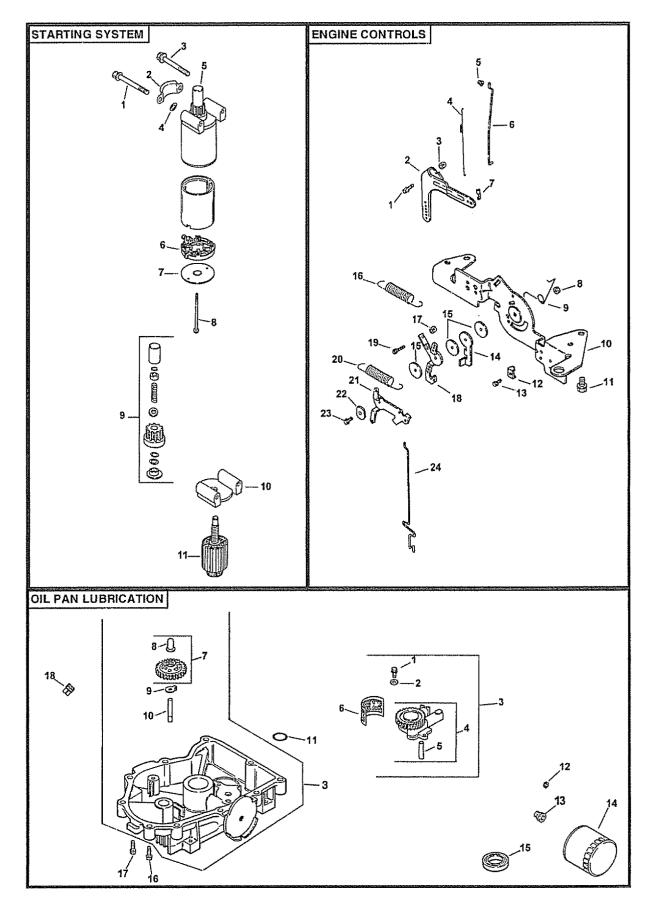


NO. 1 2 3 4 5 6 8 12 13 14 15 17 19 21	PART NO. 144569 122716X 122745X 122715X 122700X 122699X 122767X 122767X 122748X 122748X 122749X 144571 122770X 153801 122722X 144573	DESCRIPTION Shaft, Pump Ring, Retaining Bearing, Ball Spacer Seal, Lip Ring, Retaining Bearing, Cradle Seal, Lip Arm, Trunnion Guide, Slot Housing Kit, Transmission Bearing, Thrust, Ball Center Section Kit Seal, Lip Shaft Motor	NO. 25 32 37 38 42 43 44 47 53 60 62 63 64 67	127148X 142938 122786X 122718X 144578 144578 144579 122752X 127153X 142977 144581 144582 144583 144584	DESCRIPTION Swashplate, Variable Block Assembly Pin, Stainless, Headless Gasket, Center Section Check Valve Kit Charge Relief Kit Screw, Socket Head, Cap Bypass Valve Kit Block Spring O-Ring Charge Pump Kit Gerotor Assembly Screw, Socket Head, Cap Pump Assembly, Complete
21 22 23	122722X 144573 142978	Seal, Lip Shaft, Motor Washer, Block Thrust	67	153769	Pump Assembly, Complete

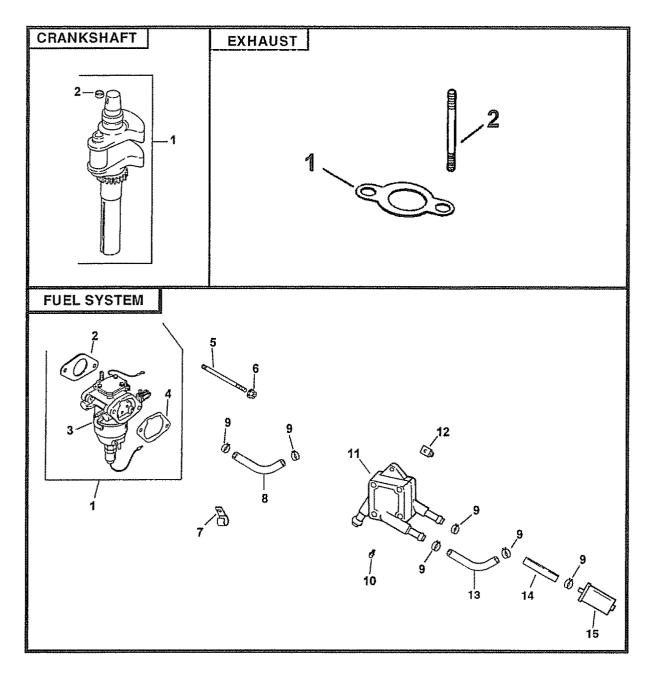


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KOHLER ENGINE-MODEL NUMBER CV24S, TYPE NUMBER 75532

HEAD/VALVE/BREATHER

CRANKCASE

PART

1. 24-033-03-S Kit, breather cover w/ 1. gasket (Includes 2,3) 2. 2. 24-041-23-S Gasket, breather 3. 24-096-59-S Cover, breather 3. 24-096-59-S Cover, breather	
2. 24-041-23-S Gasket, breather 3. 24-096-59-S Cover, breather 3.	
4 M-645020-S Screw, hex, flange 4	
4 M-645020-S Screw, hex_flange 4. M6x1.0x20 (4) 5	
5. X-75-23-S Plug, allen hd. 1/8"	
6. 25-351-01-S Lifter, valve (4)	
7. 24-755-66-S Kit, valve train (Includes 6. 8,11,12)	
8 24-411-05-S Rod, push (4)	
9. 24-041-40-S Gasket, cylinder head (2) 10. 24-318-12-S Head assembly, #2	
cylinder	
11. 25-186-01-S Arm, rocker (4)	
12. 24-599-01-S Pivot, rocker arm (4) 7.	
13. M-640034-S Screw, hex. flange M6x1.0x34 (4)	
14. 24-086-44-S Screw, hex. flange 8.	
M10x1.5x90 (8) 9.	
15. 24-755-74-S Kit, valve cover - plain (Includes 16,17)	
16. 24-153-16-S O-Ring	
17. 24-086-32-S Screw, shoulder (4) 18. 24-445-01-S Strap, lifting	
18. 24-445-01-S Strap, lifting 19. 24-016-01-S Valve, exhaust (Std.) (2)	
24-016-02-S Valve, exhaust (.25) (2) 10	
20. 24-017-01-S Valve, intake (Std.) (2)	
24-017-02-S Valve, intake (.25) (2) 11 21. 24-032-05-S Seal, valve stem (2) 12	
22. 235011-S Retainer, spring (4) 13.	
23. 24-089-02-S Spring, valve (4) 14	
24 12-173-01-S Cap, valve spring (4) 25 12-755-03-S Kit, retainer (4) 15	
26. 24-318-11-S Head assembly, #1 16	
cylinder 17	•
27. 24-755-76-S Kit, valve cover - 18	
breather (Incl.16,17,28) 19. 28. 25-313-02-S Grommet, rubber 20	
29. 24-755-57-S Kit, breather separator	
(Includes 28,30-33) 21 30. M-545016-S Screw, hex. flange 22	
M5x0.8x16 (2)	n
31. 24-445-02-S Strap, breather 23	•
32. 24-126-44-S Bracket, breather separator 24	
33. 24-112-12-S Spacer 25	
34. 24-294-06-S Fitting 26	
35. 24-326-13-S Hose, breather 27. 36. 24-326-14-S Hose, breather 27.	
36. 24-326-14-S Hose, breather 37. X-426-9-S Clamp, hose (2) 28	
29	

NO. DESCRIPTION 24-032-01-S Seal, oil front Crankcase (USE: Miniblock) 24-294-13-S Fitting 12-380-17-S Pin, dowel locating (6) 24-067-13-S Connecting Rod (Std.) 24-067-14-S Connecting Rod (.25) (2) 24-874-09-S Piston w/Ring Set (Std.) (2) (Includes 7,8) 24-874-10-S Piston w/Ring Set (.25) (2) 24-874-11-S Piston w/Ring Set (.50) 24-874-11-S Piston W/Ring Set (.50) (2) 24-874-15-S Kit, piston w/ring set (.08) 24-108-08-S Ring Set (Std.) (2) 24-108-09-S Ring Set (.25) (2) 24-108-10-S Ring Set (.50) (2) 24-018-01-S Retainer, piston pin (4) 12-422-09-S Shim, camshaft (A.R.) 12-422-13-S Shim, camshaft (A.R.) 12-422-07-S Shim, camshaft (A.R.) 12-422-08-S Shim, camshaft (A.R.) 12-422-10-S Shim, camshaft (A.R.) 12-422-11-S Shim, camshaft (A.R.) 12-422-12-S Shim, camshaft (A.R.) 24-010-06-S Camshaft (Includes 11,12) 24-089-35-S Spring, ACR (Heavy) 24-089-34-S Spring, ACR (Light) 52-139-09-S Plug, cup M-0545010-SScrew, hex. flange M5x0.8x10 (2) 24-018-04-S Retainer, reed (2) 24-402-05-S Reed, breather (2) 12-153-01-S O-Ring, lower oil fill tube 24-126-19-S Bracket, oil fill tube 12-123-04-S Tube, oil fill M-545016-S Screw, hex flange M5x0.8x16 12-153-02-S O-Ring, upper oil fill tube 24-038-04-S Dipstick assembly (Includes 23,24) 24-755-46-S Kit, oil fill cap (Includes 24) 12-153-03-S O-Ring, dipstick 12-380-04-S Pin, hitch M-631005-S Washer, plain 6 mm 12-032-01-S Seal, governor cross shaft X-25-102-S Washer, plain 1/4" 24-144-01-S Shaft, governor cross

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

KOHLER ENGINE-MODEL NUMBER CV24S, TYPE NUMBER 75532

HEAD/VALVE/BREATHER

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CRANKCASE

KEY NO.	PART NO.	DESCRIPTION
1.	24-033-03-S	Kit, breather cover w/ gasket (Includes 2,3)
2. 3. 4.		Gasket, breather Cover, breather
5. 6. 7.	X-75-23-S 25-351-01-S 24-755-66-S	Plug, allen hd. 1/8" Lifter, valve (4) Kit, valve train (Includes 8,11,12)
8. 9. 10.	24-041-40-S	Rod, push (4) Gasket, cylinder head (2) Head assembly, #2 cylinder
11. 12. 13.	24-599-01-S	Arm, rocker (4) Pivot, rocker arm (4) Screw, hex_flange M6x1.0x34 (4)
14.	24-086-44-S	Screw, hex. flange M10x1.5x90 (8)
15.	24-755-74-S	Kit, valve cover - plain
16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29.	24-153-16-S 24-086-32-S 24-016-01-S 24-016-02-S 24-017-01-S 24-017-02-S 24-017-02-S 235011-S 24-089-02-S 12-173-01-S 12-755-03-S 24-318-11-S 24-755-76-S 25-313-02-S	(Includes 16,17) O-Ring Screw, shoulder (4)
31.	24-445-02-S	Strap, breather
32. 33. 34. 35. 36. 37.	24-126-44-S 24-112-12-S 24-294-06-S 24-326-13-S 24-326-14-S X-426-9-S	separator Spacer Fitting Hose, breather

KEY NO.	PART NO.	DESCRIPTION
1. 2.	24-032-01-S	Seal, oil front Crankcase (USE: Miniblock)
3 4 5	24-294-13-S 12-380-17-S 24-067-13-S	Fitting Pin, dowel locating (6)
	24-067-14-S	
6	24-874-09-S	Piston w/Ring Set (Std.) (2) (Includes 7,8)
	24-874-10-S	Piston w/Ring Set (25) (2)
	24-874-11-S	Piston w/Ring Set (.50) (2)
7.	24-874-15-S 24-108-08-S 24-108-09-S	
8 9	24-018-01-S 12-422-09-S 12-422-13-S 12-422-07-S 12-422-08-S 12-422-10-S 12-422-10-S 12-422-11-S	Ring Set (.50) (2) Retainer, piston pin (4) Shim, camshaft (A.R.) Shim, camshaft (A.R.) Shim, camshaft (A.R.) Shim, camshaft (A.R.) Shim, camshaft Shim, camshaft (A.R.)
10.	12-422-12-S 24-010-06-S	
11. 12. 13. 14.	24-089-35-S 24-089-34-S 52-139-09-S M-0545010-S	Spring, ACR (Héavy) Spring, ACR (Light) Plug, cup Screw, hex. flange
15. 16. 17. 18. 19. 20.	24-402-05-S 12-153-01-S	Screw, hex. flange
21. 22.	12-153-02-S 24-038-04-S	M5x0.8x16 O-Ring, upper oil fill tube Dipstick assembly (Includes 23,24)
23.	24-755-46-S	Kit, oil fill cap (Includes 24)
24. 25. 26. 27	12-380-04-S M-631005-S	O-Ring, dipstick
28. 29.	24-144-01-S	Washer, plain 1/4" Shaft, governor cross
NUTE:	All compone	nt dimensions given in U.S.

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

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KOHLER ENGINE-MODEL NUMBER CV24S, TYPE NUMBER 75532

IGNITION/CHARGING

KEY NO.	PART NO.	DESCRIPTION
1.	54-755-15-S	Kit, grass screen (Includes 2-4,and 24 113 18)
2.	M-403025-S	Screw, hex. cap M4x0.7x25 (4)
3.	X-25-92-S	Washer, plain 5/16" (4)
4	24-112-04-S	Spacer, grass screen (4)
5.	25-086-47-S	Bolt, shoulder (4)
6.	24-157-03-S	
7.	12-086-14-S	Screw, hex_flange
~	40 400 00 0	M10x1.5x46
8.	12-468-03-S	Washer, plain 3/8"
9.	X-42-15-S	Key
10.	24-025-04-S	Flywheel
11.	25-403-03-5	Rectifier-regulator
12	X-25-92-S	Washer, plain 3/16" (2)
13.	24-086-18-S	Screw, phillips hd. 11- 16x7/8 (2)
14.	236602-S	Connector (3 contact)
15.	54-755-09-S	Kit, 15 amp stator
		(Includes 24 126 71)
16.	12-132-06-S	
17.	M-548025-S	Screw, hex. cap
		M5x0.8x25 (2)
18.	48-154-02-S	Clip, cable
19.	X-25-63-S	Washer, plain 1/4"
20.	24-584-01-S	Module, ignition (2)
21	M-545020-S	Screw, hex flange
		M5x0.8x20 (4)
24.	235173-S	Clip, cable
NOT IL	LUSTRATED	
	24-126-71-S	Bracket, stator wire Washer, lock 1/4"
	X-22-11-S	Washer, lock 1/4"
	24-176-79-S	Harness, wiring Lead, black (rect-reg
	24-518-12-S	5" - 12 gauge insulated grip barrel
		eyelets)
	24-113-18-S	Decal, grass screen
	25-454-03-S	Tie, wire (3)

BLOWER HOUSING & BAFFLES

KEY NO.	PART NO.	DESCRIPTION
1.	24-027-20-S	Housing, blower (Includes 2-4)
2 3 4 5	24-100-01-S 24-100-02-S 25-139-16-S M-545020-S	Nut, plastic (3) Nut, plastic (2) Plug, button 9/16" Screw, hex. flange
6	M-545016-S	M5x0 8x20 (4) Screw, hex. flange
7.	M-551016-S	M5x0.8x16 (3) Screw, hex. flange M5x0.8x16
8.	M-645016-S	
9. 10. 11.	24-146-20-S	Plate, backing - # 2 side Plate, backing - # 1 side Baffle, cylinder barrel-# 2 side
12. 13.	24-063-14-S 24-063-30-S	Baffle, valley - #2 side Baffle, cylinder barrel-# 1 side
14 15	24-063-23-S M-545010-S	Baffle, valley - #1 side Screw, hex. flange M5x0.8x10 (2)
NOT IL	LUSTRATED	Cover, control
	24-086-06-S	
AIR IN1	AKE/FILTRAT	ION
KEY NO.	PART NO.	DESCRIPTION
1. 2	24-164-06-S M-651055-S	Manifold, intake Screw, hex. flange M6x1.0x55 (4)
3.	24-041-01-S	Gasket, intake manifold (2)
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14.	24-094-18-S 24-041-13-S 24-109-09-S 24-083-05-S 24-083-03-S 231032-S 24-096-01-S 12-100-01-S 24-096-73-S 54-755-01-S 25-341-03-S	Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, fuel spitback Precleaner, element Element, air cleaner Seal, breather Cover, inner air cleaner Wing Nut Cover, air cleaner Kit, knob with seal (Includes 15 & 16) Knob, cover
16.	24-153-15-S	U-HING

- 10.
- 11.
- 12.
- 13.
- 14.
- 15.
- 16.

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

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KOHLER ENGINE-MODEL NUMBER CV24S, TYPE NUMBER 75532

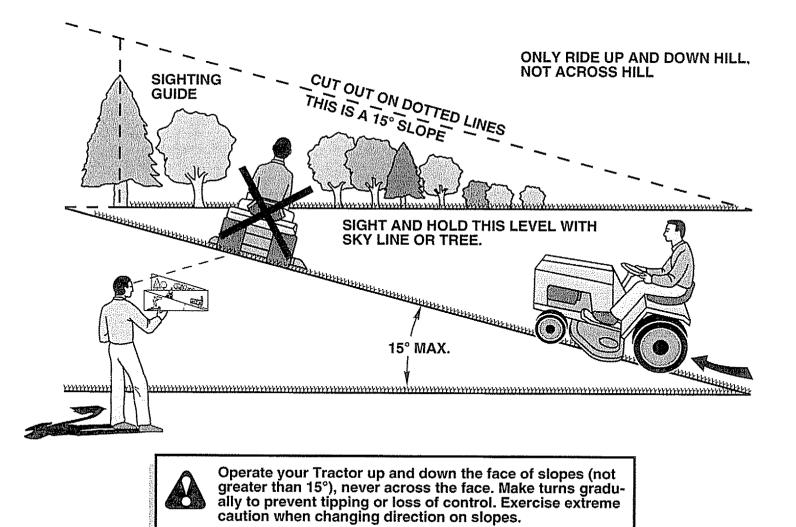
CRANKSHAFT

FUEL SYSTEM

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1. 2.	24-014-72-S 52-139-09-S	Crankshaft (Includes 2) Plug, cup	1.		Kit, carburetor w/gaskets (Includes 2-4)
			2.	24-041-15-S	Gasket, carburetor
EXHAU KEY	UST PART		3 .	24-853-61-S	Carburetor assembly (For information only not available separately)
NO.	NO.	DESCRIPTION	4	24 041 14-5	Gasket, air cleaner base
110.			5.	M-629095-S	Stud, M6x1.0x95 (2)
1. 2.	24-041-02-S 25-072-04-S	Gasket, exhaust (2) Stud, M8x1.25x33 (4)	4 5 6	M-641060-S	Nut, hex. flange M6x1.0 (2)
* *		S Gasket Set	7.	47-154-01-S	Clip, cable
			8.	52-353-22-S	Line, fuel 12" (2)
			9.	X-426-9-S	Clamp, hose (6)
			10.	24-086-12-S	Screw, hex. cap M6x1 7x18 (2)
			11.	24-393-16-S	Pump, fuel - pulse
			12.	24-100-01-S	Nut, plastic (2)
			13.	24-353-03-S	Line, Fuel 10 5/8"
			14.		Line, fuel 11-1/2"
			15.	24-050-02-S	Filter, fuel

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

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