# Owner's Manual

# **CRAFTSMAN®** 22.0 HP ELECTRIC START 46" MOWER AUTOMATIC GARDEN TRACTOR

Model No. 917.273080



## Safety

- Assembly
- Operation
- Maintenance
- Repair Parts



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

## **CAUTION:**

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

# 1-800-659-5917

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

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

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# WARRANTY

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

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, including but not limited to, damage caused by towing objects beyond the capability of the riding equipment, impacting objects that bend the frame or crankshaft, or over speeding the engine.
- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the deck clear of flammable debris, or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within thirty (30) days of its purchase date.
- Riding equipment used for commercial or rental purposes.
- LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. Warranty service is available free of charge by taking your Craftsman riding equipment to your nearest Sears Service Center. In-home warranty service is available but a trip charge will apply. This warranty applies only while this product is in the United States. TO LOCATE THE NEAREST SEARS SERVICE CENTER OR TO SCHEDULE IN-HOME WARRANTY SERVICE, SIMPLY CONTACT SEARS AT 1-800-4-MY-HOME This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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

## SAFETY RULES

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

#### **GENERAL OPERATION**

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

## **SLOPE OPERATION**

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

#### 00:

- Mow up and down slopes, not across.
  Remove obstacles such as rocks, tree
- Remove obstacles such as rocks, tree limbs, etc.
   Metch for below, rute, or humpo
- 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

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

# SAFETY RULES

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

## SERVICE

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

open flame, such as a water heater.



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

- 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.



- 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

A Look for this symbol to point out important safety precautions. It means CAU-TION!!! 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.

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

## **PRODUCT SPECIFICATIONS**

GASOLINE CAPACITY AND TYPE:	UNLEADED
OIL TYPE	SAE 10W30
(API-SF/SG/SH):	(ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	W/FILTER: 4.2PINTS W/O FILTER: 3.7PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
GROUND SPEEI (MPH):	D FORWARD: 5.8 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 authorized service center. We have competent, well-trained technicians and the proper tools to service or repair this tractor. ACAUTION: Tow only the attachments that are recommended by and comply with specifications of the manufacturer of your tractor. Use common sense when towing. Operate only at the lowest possible speed when on a slope. Too heavy of a load, while on a slope, is dangerous. Tires can lose traction with the ground and cause you to lose control of your tractor.

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

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.

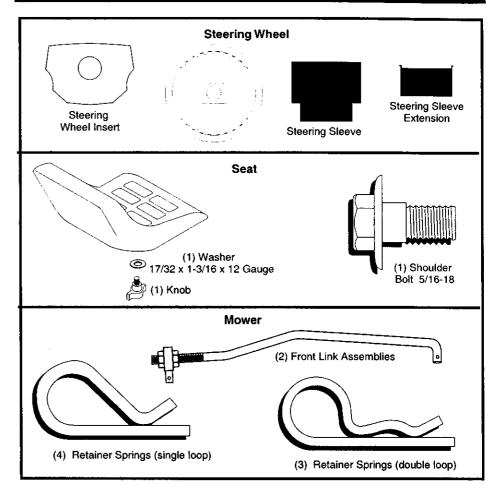
#### **CUSTOMER RESPONSIBILITIES**

- · 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.

A 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.

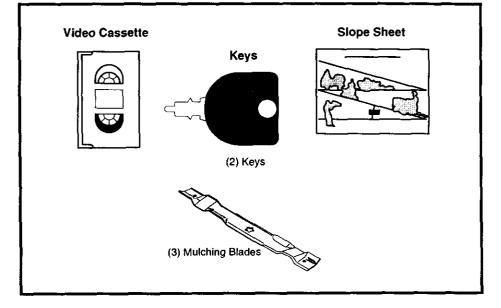
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR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

# UNASSEMBLED PARTS



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# UNASSEMBLED PARTS



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# ASSEMBLY

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

## TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) Pliers(1) Utility knife
- (1) 1/2" wrench(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

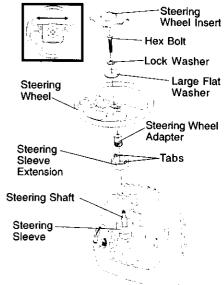
#### **UNPACK CARTON**

- 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.

## BEFORE ROLLING TRACTOR OFF 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.

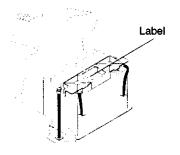


- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

**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).

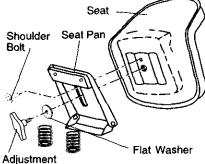




#### **INSTALL SEAT**

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.



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)

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

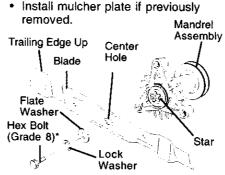
- Be sure all the above assembly steps have been completed.
- Check engine oil level and fill fuel tank with gasoline.
- Place freewheel control in "transmission engaged" position.
- Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
- Place motion control lever 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.

**IMPORTANT:** For shipping purposes, the mulcher plate was preattached to your mower. The mulcher plate must only be used with the mulching blades that came packed separately in the carton. Your mower came factory equipped with high performance blades, which are the best blades for bagging and discharging. To use your mower with the high performance blades the mulcher plate must be removed from the mower.

#### TO SET UP YOUR MOWER FOR MULCHING

- Turn the mower over to allow access to blades.
- Remove hex bolt, lock washer and flat washer and remove high performance blades. Store in safe place.
- Install mulcher blades 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 HEATTREATED.



\*A GRADE 8 HEAT TREATED BOLT CAN BE IDENTIFIED BY SIX LINES ON THE BOLT HEAD.

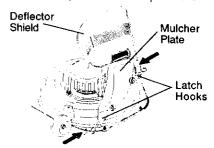
#### TO INSTALL MULCHER PLATE

**NOTE:** If you installed the mulching blades you will need to install the mulcher plate.

• Raise and hold deflector shield in upright position.

- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.

**A CAUTION:** Do not remove discharge guard from mower. Raise and hold guard when attaching mulcher plate and allow it to rest on plate while in operation,



# TO CONVERT TO BAGGING OR DISCHARGING

**NOTE:** The mulcher blades will discharge and bag grass, but for best bagging and discharging install the high performance blades.

- Remove mulcher plate and mulcher blades and install high performance blades, (see BLADE REMOVAL in the MAINTENANCE section of this manual).
- Store mulcher blades and mulcher plate in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

# 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 R.H. front mower bracket and R.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in L.H. front suspension bracket only and 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 L.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm. Retain with double loop retainer spring with loops down as shown.
- Slide left side of mower back and install the unattached front link in top hole of the L.H. front mower bracket. Retain with single loop retainer spring as shown.
- Place the R.H. suspension arm on inward pointing deck pin. If necessary, rock and raise front of mower to align deck pin with the hole in suspension arm. Retain with double loop retainer spring 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 mower to highest position.
- Assemble gauge wheels (See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual).

#### CHECK TIRE PRESSURE

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

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

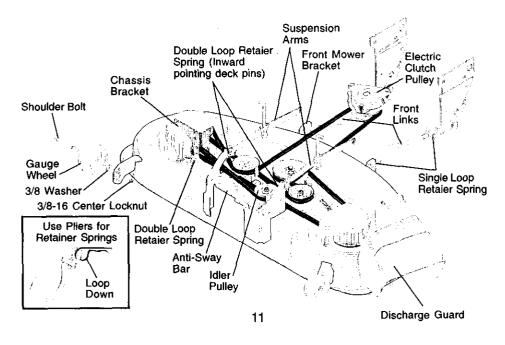
#### CHECK MOWER LEVELNESS

For best cutting results, mower should be 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 EXTRAATTENTION 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

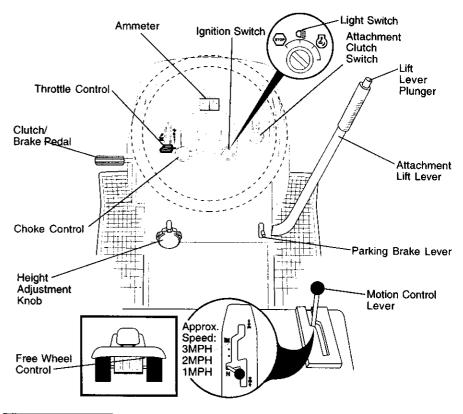
These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



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#### 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.

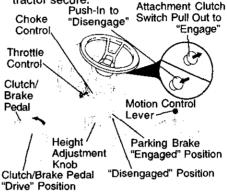


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

IMPORTANT: 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".

 Tum 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.

**A** 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
- Full inrotite 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 counterclockwise () to lower cutting height.

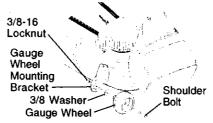
The cutting height range is approximately 1-1/2" to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

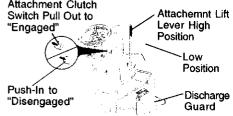


#### **TO OPERATE MOWER**

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

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

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



## TO OPERATE ON HILL'S

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

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move 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**

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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.

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



 Insert key into ignition and tum 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

**A CAUTION:** 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. Repeat this procedure three (3) times.

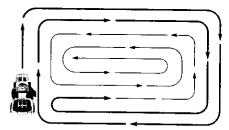
**NOTE:** During this procedure there will be no movement of drive wheels. The air is being removed from hydraulic drive system.

- 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

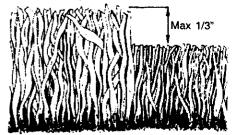
- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings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



### **MULCHING MOWING TIPS**

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

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





Service more often when operating in dirty or dusty conditions
 If equipped with oil filter, change oil every 50 hours.
 Replace blades more often when moving 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.

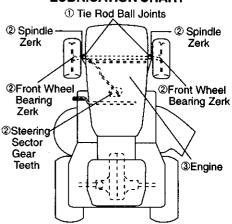
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

· 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



**OSpray Silicone Lubriant (Move Boots to** Lubricate)

②General Purpose Grease **③Refer to Maintenance "ENGINE" Section** IMPORTANT: Do not oil or grease the pivot points which have special hylon bearings. Viscous lubricants will attract dust and dirt that will shorten the life of the self-lubricating bearings. If you feel they must be lubricated, use only a dry, powdered graphite type lubricant sparingly.

#### TRACTOR

Always observe safety rules when performing any maintenance. BRAKE OPERATION

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

## TIRES

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

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

Be sure 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.

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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

Trailing	Blade	Center 🔊 🦟
Trailing Edge Up	7	Hole
$\sim$	5	
Flat Washe	r,	
Lock Wash	er 🔪	Star
	0.0	· ·

Hex Bolt (Grade)\*

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

#### **TO SHARPEN BLADE**

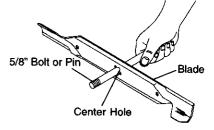
NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced. Care should be taken to keep the blade balanced. An unbalanced blade will

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.

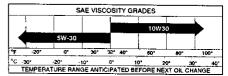
#### TRANSAXLE PUMP FLUID

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

#### 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.

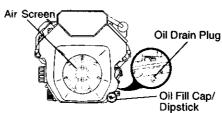
Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/ dipstick securely each time you check the oil level.

#### 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.

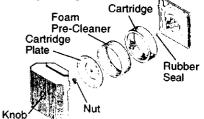
Loosen knob and remove cover.
 TO SERVICE PRE-CLEANER

- Of the second se
- 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
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.



#### CLEANING

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

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

23 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. ٠
  - 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.
- ٠ 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 attachment other than the mower deck is to be mounted on the tractor, remove hte 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 vour mower.

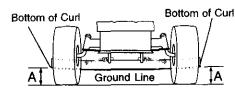
SIDE-TO-SIDE ADJUSTMENT

- · 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 Mower Bracket Adjustment Lift Links Nuts. Suspension Chassis Arms Bracket Front Links Retainer Springs Retaine Front Mower Spring Bracket Anti-Sway Bar Retainer Springs 24

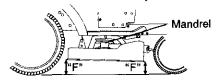


FRONT-TO-BACK ADJUSTMENT IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. if the following front-toback adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

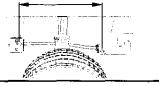
To obtain the best cutting results, the mower housing should be adjusted so the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

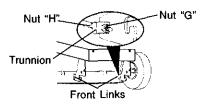
Check adjustment on right side of tractor. Measure distance "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

- 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





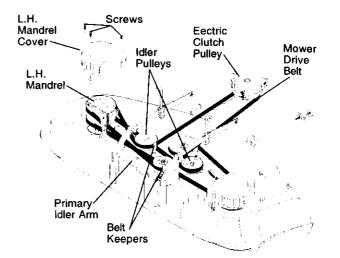
#### TO REPLACE MOWER DRIVE BELT

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.

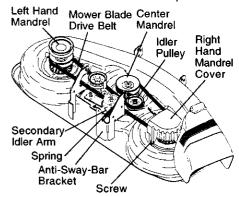


# TO REPLACE MOWER BLADE DRIVE BELT

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).

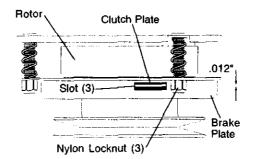


#### TO ADJUST ATTACHMENT CLUTCH

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.

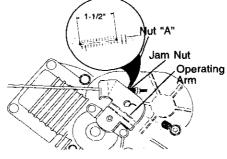


#### TO ADJUST BRAKE

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.)

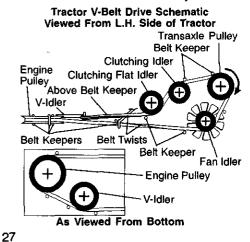
## **BELT REMOVAL -**

- Engage parking brake (creates stack in belt).
- Remove belt from clutching and fan idler pulleys.
- Loosen beit 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.
- 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.



#### 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.

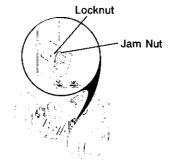
- Park tractor on level surface. Stop tractor by turning ignition key to "OFF" position and engage parking brake.
- Place motion control lever in neutral (N) position.
- · While holding locknut, loosen jam nut
- Tighten locknut 1/4 turn.
- While holding locknut, tighten jam nut securely.

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.

## 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 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

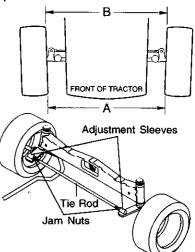
- · Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

#### 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.



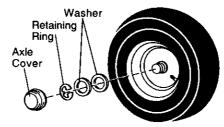
#### TO REMOVE WHEEL FOR REPAIRS FRONT WHEEL

- · 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.
- 28

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

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

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

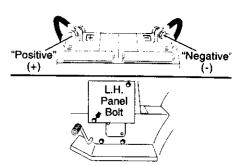
If "jumper cables" are used for emergency starting, follow this procedure: **IMPORTANT**: Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to good CHASSIS GROUND, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

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

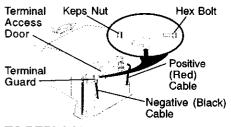


## **REPLACING BATTERY**

A 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.
- 29 · 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.

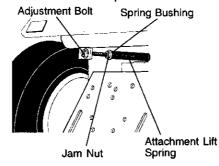
#### TO REPLACE FUSE

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.

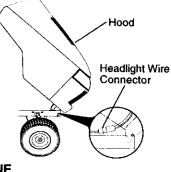
**IMPORTANT:** Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



## 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.

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## ENGINE

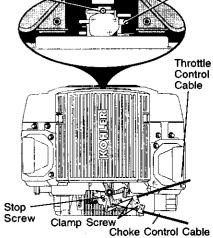
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

# TO ADJUST THROTTLE CONTROL CABLE

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

- With engine not running, move throttle control lever to fast position.
- Check that 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.

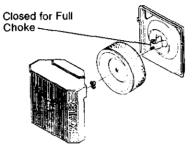
Idle Fuel Adjusting Idle speed Adjusting Needle Screw



#### 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.

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

## **TROUBLESHOOTING CHART**

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

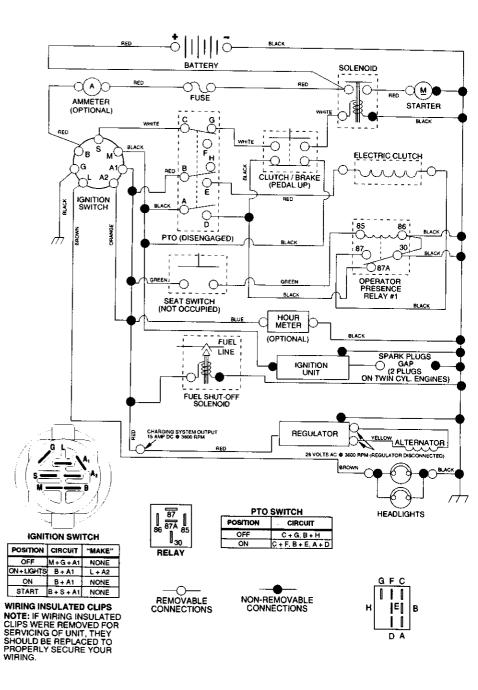
## **TROUBLESHOOTING CHART**

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

# NOTES

#### SCHEMATIC

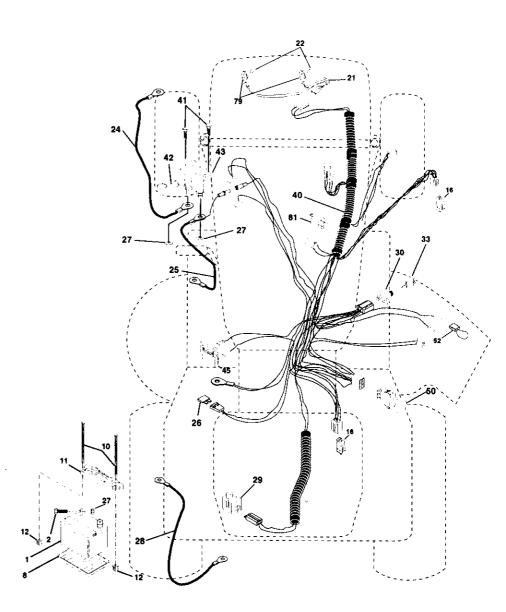
## TRACTOR -- MODEL NUMBER 917.273080



## **REPAIR PARTS**

## TRACTOR -- MODEL NUMBER 917.273080

ELECTRICAL

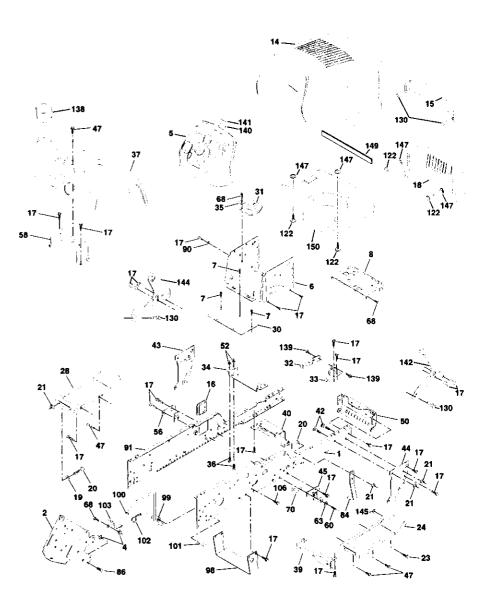


#### ELECTRICAL

key part No. No.	DESCRIPTION
1 144927	Battery
2 74760412	Bolt Hex Hd 1/4-20unc X 3/4
8 7603J	Tray, Battery
10 145211	Bolt, 1/4-20 x 7.5 Zinc
11 150109	Holddown Battery Front Mount
12 145769	Nut, Push Nylon Battery Front 1/4
16 153664	Switch Interlock Push-In
21 166184	Harness Asm Light W/4152j
22 4152J	Bulb Light #1156
24 4014J	Cable Battery 4 Ga 22" red
25 146686	Cable Battery
26 108824X	Fuse
27 73510400	Nut Keps Hex 1/4-20 Unc
28 170697	Cable Ground
29 160784	Switch Plunger
30 163968	Switch Ign
33 140403	Key Ign
40 170238	Hamess Ign
41 17720408	Screw Thd Cut 1/4-20 x 1/2 TY23
42 131563	Cover Terminal Red
43 145673	Solenoid
45 122822X	Ammeter Rectangular 15 Amp
50 169416	Switch, PTO
52 141940	Protection Wire Loop
81 109748X	Relay, Asm.
83 163996	Bulbholder Asm Incandescent SV

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

## TRACTOR -- MODEL NUMBER 917.273080 CHASSIS AND ENCLOSURES



## TRACTOR -- MODEL NUMBER 917.273080 CHASSIS AND ENCLOSURES

key No.	PART NO.	DESCRIPTION	KEY NO.	PART NO.
1	150253	Rail, Frame RH	52	73680500
2	140506	Drawbar, GT	56	154914
	73680700	Nut, Crown Lock 7/16-14 Unc	58	137113
5	163976	Dash YTGT 2 Cyl	60	17490620
	157882	Dash, Lower Vgt One Piece	63	19131614
7	17720408	Screw, Thd Cut 1/4-20 x 1/2	68	17490508
8	145166	Support, Battery	70	137159
14	161023X558	Hood asm., Pnt YTGT	84	142992
15	160568	Lens Asm headlight Bar	86	74760716
16	121794X	Cover, Access	90	11050600
17	17060612	Screw 3/8-16 x 3/4	91	170755
18	160564X558	Grille	95	105531X
19	19131312	Washer 13/32 x 13/16 x 12 Ga.	98	140503
20	74760616	Bolt Fin Hex 3/8-16 x 1	99	140871
	73680600	Nut Crownlock 3/8-16 Unc		71673
23	17060616	Screw 3/8-16 x 1.5		1749062
24	145243X558	Footrest, RH		STD6240
28	145244X558	Footrest, LH		142273
30	145052	Saddle Hydro		138776
31	161419	Brace, Supt 1-pc VGT Steering		161464
32	161327	Bracket, Pivot Chassis LH		164863
33	161326	Bracket, Pivot Chassis RH		163975X
34	142131	Bracket, Engine Support rear		161330
35	19111116	Washer 11/32 x 11/16 x 16 Ga.		163806
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4		163805
37	167287X558	FenderPnt		161897
39	136961	Bracket, Axle Front		161900
40	156111	Bracket, Support axle/Engine		1913141
42	72140608	Bolt, Carriage 3/8-16 x 1		162967
43	136939	Bracket, Spnsn Front Lh		164655
44	136940	Bracket, Spnsn Front Rh	150	161237
45	154913	Bracket, Asm., susp Chassis Rh		
47	17490608	Screw Thdrol. 3/8-16 x 1/2	NO.	TE: All co
50	152728	Bracket, Chassis Front		inches

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	DESCRIPTION
0500	Nut Crownlock 5/16-18 Unc
14	Bracket Asm., Susp Chassis Lh
13	Bracket asm., Fender
0620	Screw Thdrol. 3/8-16 x 1-1/4
1614	Washer 13/32 x 1 x 14 Ga.
0508	Screw Thdrol, 5/16-18 x 1/2
59	Guide, Belt Mid Span
92	Stop Over Center Mower
0716	Bolt Fin Hex 7/16-14 Unc x 1
0600	Washer, Lock Ext. Tooth 3/8
55	Rail, Frame Lh
31X	Push Nut, Nylon
03	Bracket Skid Chassis
71	Rod By Pass
3	Cap Brake Parking Rod
0628	Screw thdrol 3/8-16 x 1-3/4
624003	Retainer, Spring
73	Lock, By Pass
76	Bolt 5/16-18 TT
64	Screw Hex Wshd 8-18 x 7/8
63	Screw HWHD Hi-Lo 13-16 x 3/4
75X428	Cup Holder
30	Bolt Shoulder 5/16-18 TT
06	Magnet YTGT
05	Striker Plate Stealth YTGT
97	Bracket Dash Rh
00	Bracket Dash Lh
31414	Washer Flat 13/32 x 7/8 x 14 Ga.
67	Fastener Nut Pal
655	Extrusion Bumpers
37	Duct Heat Hood

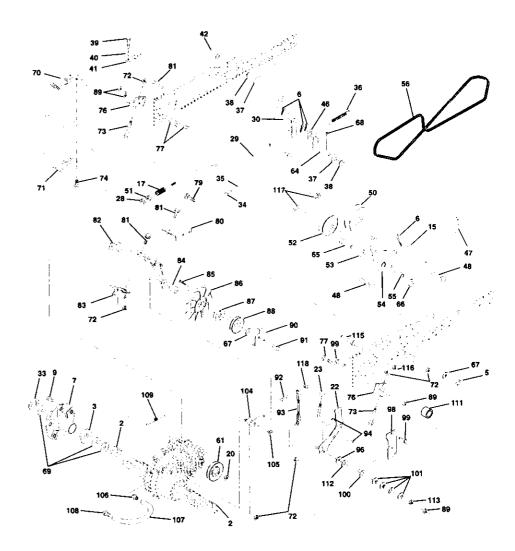
NOTE: All component dimensions given in U.S. inches 1 inch = 25/4 mm

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**GROUND DRIVE** 

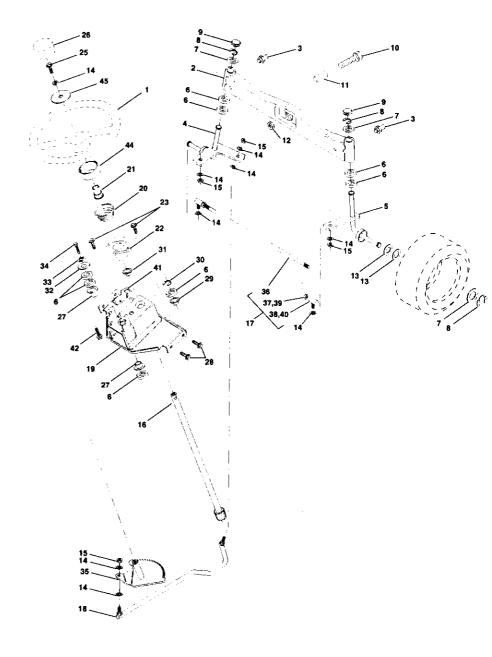


#### TRACTOR--MODEL NUMBER 917.273080

#### **GROUND DRIVE**

	Y PART . NO.	DESCRIPTION		PART NO.	DESCRIPTION
2	7070E	Key 1/4 x 2.5	72	STD541431	Nut Crownlock 5/16-18
3	7563R	Washer Thrust Axle Harden	73	74490548	Bolt Hex Fighd 5/16-18 x 3 Gr. 5
5	STD541437	Nut Crownlock 3/8-16	74	142432	Screw, Hex Wsh Hi-Lo 1/4-1/2
6	STD561210	Pin Cotter 1/8 x 3/4	76	140481	Bracket Transaxle
7	140507	Wheel Hub Asm.	77	74760716	Bolt Fin Hex 7/16-14 x 1
9	140080	Bolt Hub	79	72110505	Bolt Carriage 5/16-18 x 5/8
15	STD551037	Washer 13/32 x 13/16 x 16 Ga.	80	140484	Bracket Torque RH
17	140921	Spring Rod Brake	81	17060612	Screw 3/8-16 x 3/4
20	73940800	Nut Hex Jam Toplock 1/2-20	82	150586	Bracket Mount Torque/Fan
22	156103	Shaft Arm Asm	83	140479	Strap Torque Mid
23	130564	Knob	84	140490	Spacer
28	STD541237	Nut, Hex Jam 3/8-16	85	17541020	Screw #10-24 x 1-1/4
29	140494	Brake Rod	86	140462	Fan 7" Hydro
30	19131616	Washer 13/32 x 1 x 16Ga	87	140491	Adapter Fan
33	12000053	Ring E	88	161592	Pulley Idler
34	71673	Cap Plunger	89	73680700	Nut Crownlock 7/16-14
35	137648	Rod Parking Brake		140489	Keeper Belt
36	149412	Spring Drive Ground	91	17490644	Screw Thdrol 3/8-16 x 2-3/4
37	121749X	Washer 25/32 x 1-1/4 x 16 Ga.		74760520	Bolt Fin Hex 5/16-18 x 1.75
38	150035	Nyliner	93	140502	Link Shift Asm
39	74321016	Screw Fin #10-24 x 1		133835	Fastner Christmas Tree
40	5304J	Actuator Interlock Switch	96	141103	Washer Nickel Plated
41	73661000	Nut Lock #10-24 Unc	98	141004	Bracket Shift
42	8883R	CoverPedal	99	17060624	Screw 3/8-16 x 1/2
46	145170	Retainer Spring		126881X	Washer Compression
47	138228	Clutch Rod		156106	Washer Bellville
48	72110612	Bolt Carriage 3/8-16 x 1-1/2 Gr. 5		140480	Bracket Idler
50	131494	Pulley Idler Flat		17580408	Screw Tap 1/4-20 x 1/2
51	STD541437	Nut Crownlock 3/8-16 Unc		142918	O-Ring Asm. Hydro Gear
52	139123	Pulley Idler Grooved		154739	Line Fuel Hydro
53	207J	Washer Hartdened		142917	Cap Vent
54	161590	Clutch Arm Asm		140929	Spring Return Brake
55	105706X	Bearing, Idler		156240	Spacer Shift Lever VGTH
56	140218	V-Belt		156104	Washer Nylon High Temp
61	140488	Pullery Transaxle		73220700	Nut Hex ASF 7/16-14 UNC
64	154752	Shaft Asm Brake Parking Clutch		123405X	Keeper Belt Gnd Dr.
65	67609	Bolt Shoulder		73900500	Nut Lock Hex Flange 5/16-18
66 67	140296	Washer Hardened		73900600	Nut Lock Fig. 3/8-16 UNC
67	19131312	Washer 13/32 x 13/16 x 12 Ga	118	73800500	Nut Lock Hex W/Ins 5/16-18 UNC
68	5142H	Pin Roll			PL
69	123800X	Washer		163198	Transaxle Hydro
70 71	164892X428	Console Hydro Fender	NO		nent dimensions given in U.S.
71	151179	Plate Console Shift	110		h = 25/4 mm

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



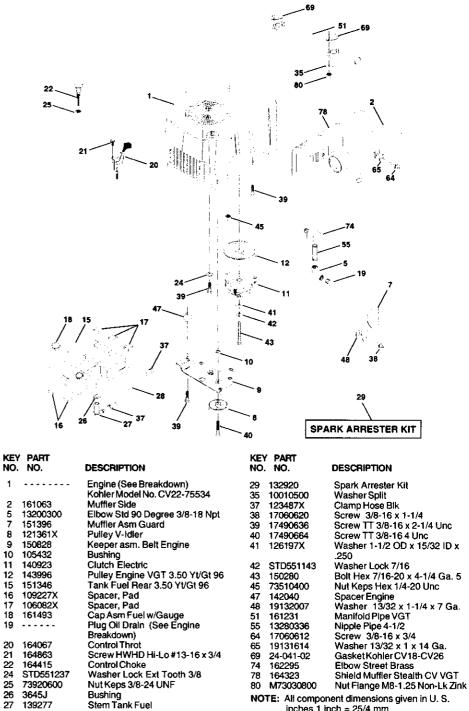
#### STEERING

key part No. No.	DESCRIPTION
1 159944X428	Wheel Steering
2 137094	Axle Asm Fr
3 6855M	Fitting, Grease
4 161849	Spindle Asm LH
5 161848	Spindle Asm RH
6 6266H	WasherThrust .75 x 1.230 Washer 25/32 X 1-5/8 X 16 Ga
7 121748X 8 12000029	
8 12000029 9 121232X	Ring Klip #t5304-75 Cap Spindle Fr Top Blk
10 74781044	Bolt Fin Hex 5/8-11 X 2-3/4
11 136518	Spacing Bearing Axle Front
12 73901000	Nut Lock Flange 5/8-11 Unc
13 121749X	Washer 25/32 X 1 1/4 X 16 Ga
14 STD551137	Washer Lock Hvy Hici Spr 3/8
15 STD541537	Nut, Lock Center 3/8-24 UNF
16 145103	Shaft Asm Stering
17 137347	Rod Asm Tie Ball J Ball Vgt (Inc. Key No. 36-40)
18 137155	Draglink, Ball Joint Solid Vgt
19 156011	Support asm Steering Vgt
20 163887	Boot, Steering
21 159945	Adapter, Wheel Steering
22 155105	Bushing, Strg. Blk
23 152927	Screw Bolt Fin Hex 3/8-16 x 1Gr. 5
25 74780616 26 159946X428	Cap, Wheel Steering
26 1599467426 27 3366R	Bearing Col Strg Blk
28 17060612	Screw 3/8-16 x.75
29 104239X	Bearing, Flange
30 120000034	Ring, Klip truarc #5304-75
31 138136	Bushing, Nyliner Snap
32 19111610	Washer 11/32 x 1 x 10 Ga.
33 STD551131	Washer Lock Hvy Hicl Spr 5/16
34 74760512	Bolt Hex Hd 5/16-18 x 3/4
35 138059	Gear, Sector Steering
36 137156	Tie Rod
37 73360600	Jam Nut RH Thread
38 109850X	Joint Asm Ball Rh thread
39 73700600	Jam Nut LH Thread
40 109851X	Joint Asm Ball LH Thread Bracket Switch Interfack VGT 97
41 155246 42 17490508	Bracket Switch Interlock VGT 97 Screw Thdrol 5/16-18 x 1/2 Tyt
42 17490508 44 160135	Extension, Steering
45 19132411	Washer 13/32 x 1-1/20 x 11 Ga.
	HIGHNI TO/DEAT HEDATS OUT

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

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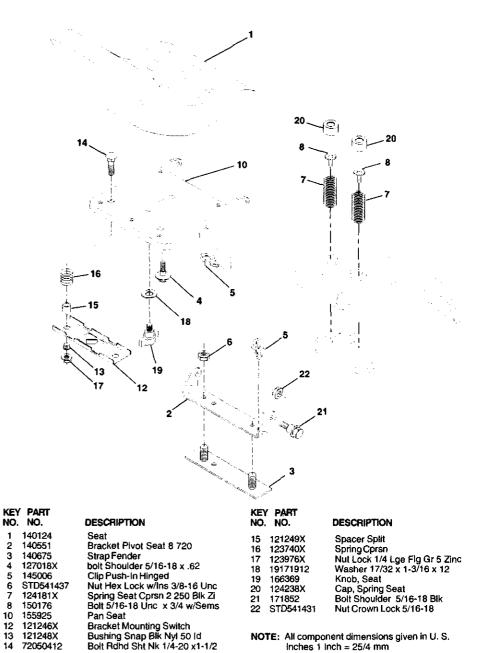
**Fuel Line** 



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

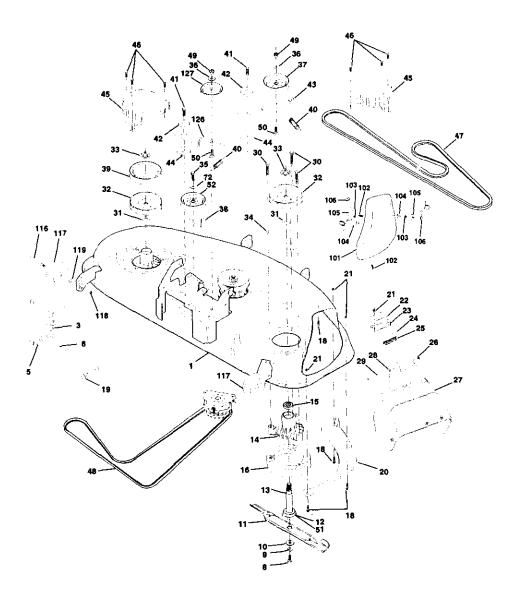
#### SEAT ASSEMBLY

72050412



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

**MOWER DECK** 

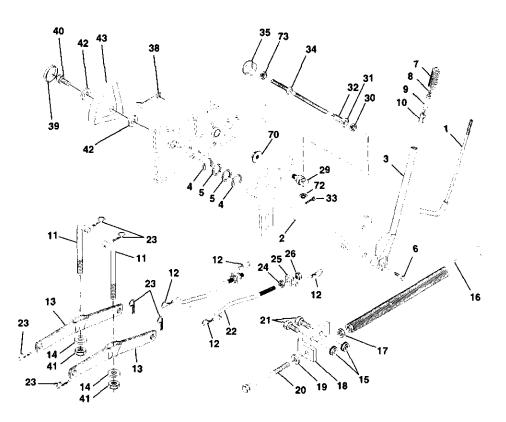


#### TRACTOR-MODEL NUMBER 917.273080

## MOWER DECK

	Y PART , NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	156948	Deck Weldment		Keeper, Belt, Idler
3	138457	Bracket Asm., Sway Bar		Pulley, Idler, Driven
5	STD624008	Retainer Spring		Spring, Secondary 44/46/50 Vent Screw 3/8-16 x 1-1/4
6	130832	Arm, Suspension, Rear (Sway		Spacer, Retainer
_		Bar)		
8	850857	Bolt, Patched 3/8-24 x1-1/4Gr. 8		Arm, Idler Secondary
9	STD551137	Washer, Lock Hvy. Unplated 3/8	44 133943	Washer, Hardened
10	140296	Washer, Hard Blade, Mower	45 145059 46 137729	Cover, Mandrel Deck
	157000	Vented		Screw, Thdroll, 1/4-20 x 5/8
11	157033	Blade, 46" High Performance	47 144959 48 148763	V-Belt, Mower, Secondary
	152443	Blade,46" Mulching		V-Belt, Mower, Primary
12	129895	Bearing, Ball, Mandrel #6204	49 STD541437	Nut, Crownlock 3/8-16 UNC
13	137553	Shaft Asm. w/Lower Bearing	50 72110612	Bolt, Carriage 3/8-16 x 1-1/2 Gr.
	107100	(Includes Key No. 12)	Ed 150000	5 Mashar Foli
14	137152	Housing, Mandrel	51 153390	Washer Felt
15	110485X	Bearing, Ball, Mandrel	52 156493	Pulley Idler Flat 46 PRI drive
16	140329	Stripper, Mower Round	72 19131616	Washer 13/32 x 16 Ga.
18	72140505	Bolt, Carriage 5/16-18 x 5/8	101 145579	Cover, Mulching
19	132827	Bolt, Hex Head, Shoulder 5/16-	102 71161010	Screw
		18	103 STD551110	Washer, Lock #10
20	145055	Baffle, Vortex Mower 46"	104 19061216	Washer
21	STD541431	Nut, Crownlock 5/16-18 UNC	105 160793	Latch Asm. Mulch/Bagger
22		Stiffiner, Bracket	106 2029J	Nut, Weld
23	131267	Bracket, Deflector	116 137644	Bolt, Shoulder
24	105304X	Cap, Sleeve	117 133957	Gauge Wheel, Wide
25	149287	Spring, Torsion, Deflector	118 73930600	Nut, Centerlock 3/8-16 UNC
26	110452X	Nut, Push	119 19121414	Washer 3/8 x 7/8 x 14 Ga.
27	166883	Deflector Mower	126 144948	Arm, Idler, Primary Deck 46"
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	127 146763	Pulley, Idler, V-Groove Dim. 4.25
29	131491	Rod, Hinge	166209	Deck Complete (Std. Deck-Order
- 30	157722	Screw, Thdroll Washer Hd		separately mulcher plate and
31	129963	Washer, Spacer Mower Vented		gauge wheel components Key
32		Pulley, Mandrel		Nos. 101-106 and 116-118)
33		Nut, Flg. Top Lock Cntr. 9/16	- 143651	Mandrel Asm 44"/50" Service
34		Anchor, Spring Deck 46		(Includes Key No.s 8-10, 12-15,
35	17490628	Screw, Thdroll 3/8-16 x 1-3/4 Tytt		31 and 33)
- 36		Washer 13/32 x 13/16 x 16 Ga.		onent dimensions given in U.S.
37	131494	Pulley, Idler, Flat	inches 1	inch = 25/4 mm

LIFT ASSEMBLY

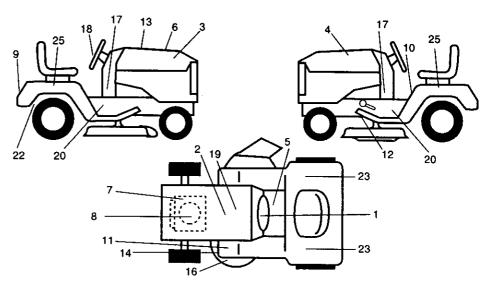


Key Part No. No.	DESCRIPTION
1 121006X 2 159187	Rod Asm. Lever Shaft Asm Lift Vgt
2 159187 3 159189	Lever asm Lift Rh
4 12000022	E Ring #5133-87
5 19292016	Washer 29/32 X 1-1/4 X 16 Ga.
6 71100624	Bolt Fin Hex 3/8-16 Unc x 1/2 Blk
7 125631X	GripHandle
8 122365X	Button Plunger Red
9 122364X	Plunger, Button
10 2876H	Spring 2-1/8»
11 146704	Link Lift
12 163552	Retainer Spring
13 139868	Arm Suspension Rear
14 140302	Bearing Pivot Spherical
15 STD541437	Nut, Crownlock 3/8-16 Unc
16 674A247	Spring Asm. Assist Lift
17 STD541237	Nut Hex Jam 3/8-16 Unc
18 143363	Bracket Spring Assist
19 STD551037	Washer 13/32 x 13/16 x 16 Ga.
20 5328J	Bolt, Adjust Spring Assist
21 STD523710	Bolt Fin Hex 3/8-16 x 1
22 127218	Link Front

KEY PART NO. NO.	DESCRIPTION			
23 STD624008	Retainer Spring			
24 73350800	Nut Jam Hex 1/2-13 Unc			
25 130171	Trunnion			
26 73680800	Nut Crownlock 1/2-13unc			
29 150233	Trunnion, Inf Height			
30 110807X	Nut, Special			
31 19131016	Washer 13/32 x 5/8 x 16 Ga.			
32 137150	Spring, Compression Inf Hgt			
33 STD560907	Pin Cotter 3/32 x 1/2			
34 137167	Rod, Adjust Lift			
35 138057	Knob Inf. 3/8-16			
38 155097	Pointer, Height Indicator			
39 123935X	Plug, Hole			
40 17060516	Screw 5/16-18 x 1			
41 73540600	Nut Crownlock 3/8-24			
42 19112410	Washer 11/32 x 1-1/2 x 10 Ga.			
43 123934X	Scale Indicator Height			
70 145212	Nut Flange Lock			
72 110452X	Nut Push Phos & Oil			
73 73350600	Nut Hex Jam 3/8-16 Unc			
NOTE: All component dimensions given in U.S. inches 1 inch = 25/4 mm				

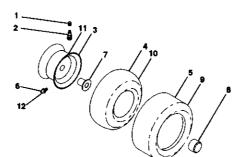
## TRACTOR -- MODEL NUMBER 917,273080

DECALS



KE) NO.		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	164094	Decal Dash	14	160397	Decal V-Belt Schem
2	149516	Decal Battery DNGR/PSN ENG	16	133179	Decal Mower
		Asm	17	163266	Decal Dash Panel
3	171702	Decal Hood RH Craftsman	18	164065	Decal Insert Strg
4	171703	Decal Hood LH Craftsman	19	138047	Decal Battery
5	140837	Decal Brake Parking Saddle	20	171705	Decal Side Panel GT
6	133644	Decal Maintenance	22	142342	Decal Drawbar CNTRL
7	164760	Decal Engine	23	106202X	Reflectro, Talllight
8	164884	Decal Blower Hsng Kohl	25	163230	Decal Fender Auto Trans
9	163204	Decal, Fender Craftsman		138311	Decal Handle Lft Height Adjust
10	156439	Decal Fender Danger			(Lift Handle)
11	4900J	Decal Clutch/Brake		157199X428	Pad Footrest
12	146790	Decal V-Belt Dr Sch		171688	Owner's Manual, English
13	171812	Decal RPLC		171689	Owner's Manual, Spanish

## WHEELS AND TIRES



#### KEY PART NO. NO. DESCRIPTION 59192 65139 106228X427 Cap Valve Tire Stem Valve Rim Asm Front Tube, Front (Service Item Only) Tire, Front 8134H 106230X 278H 9040H Fitting Grease (Front Wheel Only) Bearing Flange (front Wheel Bearing Flange (front wheel Only) Cap Axle Blk 1 50 X 1 00 Tire Rear Tube Rear (Service Item Only) Rim Asm Rear Fitting Grease Sealant, Tire (10 oz. Tube) 104757X 105588X 7154J 106277X427 6856M 144334

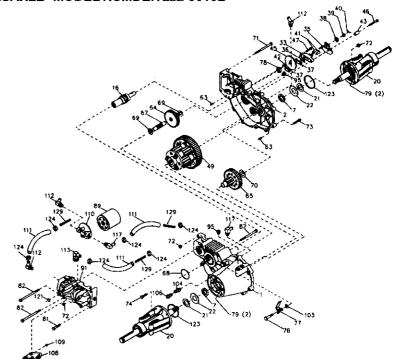
NOTE: All component dimensions given in U. S. inches 1 Inch = 25/4 mm

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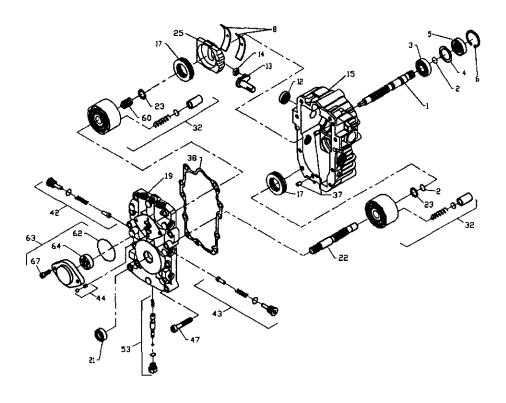
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## TRACTOR -- MODEL NUMBER 917.273080 TRANSAXLE--MODEL NUMBER 222-3010L



	(Part No.	DESCRIPTION		Part No.	DESCRIPTION
1	164591	Assembly, Housing, LH	72	153767	Locknut, Hex 5/16-18
2	164592	Assembly, Housing, RH	73	142904	Bolt, Hex 5/16-18 x 1-1/2
7	153765	Oil Seal .984 x 1.5 x .25	74	142905	Hex Cap Screw 5/16-18 x 1
16	142876	Brake Shaft Assembly	76	142907	Shoulder Bolt
20	142877	Axle Mounting Horn Asm.	77	142908	Freewheel Actuating Arm
21	142878	Washer 1.0 x 1.63 x .08	78	142909	Oil Seal .625 x 1.0 x .25
22	142879	Washer 1.0 x 2.06 x .09	79	153768	Grease (10 oz. Tube)
33	142929	Brake Yoke Assembly	81	142910	Bolt, Hex 5/16-18 x 1-3/4
35	142880	Brake Arm	82	142911	Bolt 5/16-18 x 4-1/2
36	142882	Puck Plate	89	142912	Filter, Spin On
37	142883	Brake Puck	91	153769	Pump, BDU-10L-122
38	142884	Washer	95	142914	Plug, Straight Thread
		7/8 O.D. x 7/16 x .060	96	153770	60; 7/18 SAE x 5/16 Fitting
39	142885	Nut, Castle 5/16-24	103	142916	Washer
40	142886	Cotter Pin	104	142917	Vent Cap Assembly
41	142887	Brake Actuating Pin	106	142918	Fitting O-Ring Assembly
42	142888	Hi Pro Key	108	142919	Control Arm
	142889	Spacer		142920	Set Screw
	142890	Brake Disc	110	142921	Filter Head
	142891	Bolt 1/4-20 x 1-1/2	111	150820	Hose 1/2"
47	142892	Bolt 1/4-20 x 1	112	150823	Fitting, 1/2" Beaded 90; 7/8
	153766	Differential Assembly			SAE
63	142894	Dowel Pin	113	150821	Fitting, 1/2* Beaded 60; 9/16
64	150818	Reduction Gear,		150822	Fitting, 1/2" Beaded 90; 9/16
		14 Teeth to 38 Teeth		150824	ORing
	142897	Final Drive Pinion Assembly		150825	Pinch Clamp
67	142898	Jackshaft	129	153771	Spring, Long
68	142899	O-Ring			
69	142900	Washer 5/8 X 1-5/32			ent dimensions given in U.S. inches
70	142901	Washer 7/8 X 1-1/2	1 in	ch = 25.4 mm	
71	142902	Bolt, Hex 5/16-18 x 3.5			

## TRACTOR-MODEL NUMBER 917.273080 TRANSAXLE PUMP--MODEL NUMBER 222-3010L



# KEY PART NO. NO.

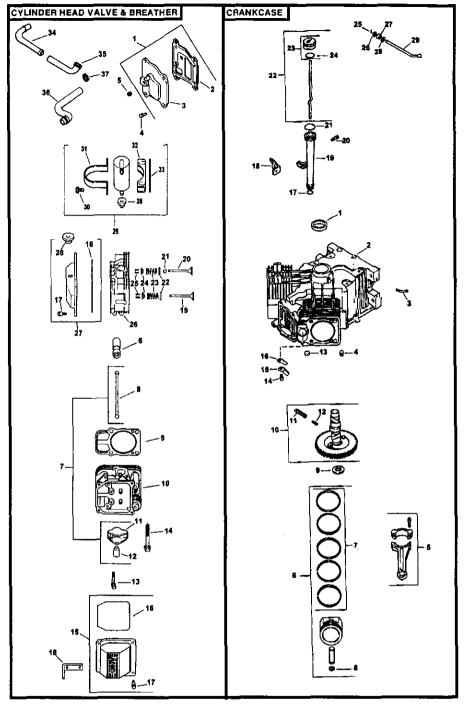
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1	144569
2	122716X
3	122745X
4	122715X
5	122700X
6	122699X
8	122767X
12	122717X
13	122748X
14	122749X
15	144571
17	122770X
19	153801
21	122722X
22	144573
23	142978

#### DESCRIPTION

Swashplate, Variable
Block Assembly
Pin, Stainless, Headless
Gasket, Center Section
Check Valve Kit
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

## I RACIOR -- MODEL NUMBER 917.273080 KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534



## TRACTOR -- MODEL NUMBER 917.273080

#### KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534

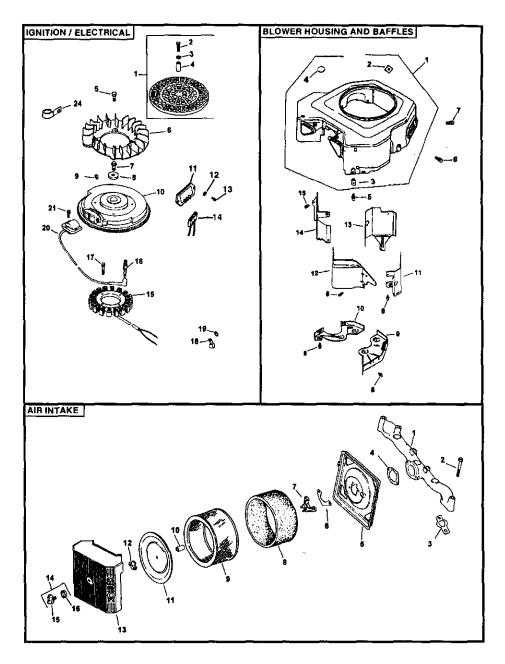
#### HEAD/VALVE/BREATHER

#### CRANKCASE

			37
KEY PAR' NO. NO.	T DESCRIPTION	KEY PAI NO. NO.	
		1. 24-032-01-5	Seal, oil front
1. 24-033-03-S	Kit, breather cover w/gasket	2.	Crankcase
	(Includes 2,3)		(USE: Miniblock)
2. 24-041-23-S	Gasket, breather	3. 24-294-13-5	
<ol> <li>24-096-59-S</li> </ol>	Cover, breather	4. 12-380-17-5	
<ol> <li>M-645020-S</li> </ol>	Screw, hex. flange M6x1.0x20	5. 24-067-13-5	
_	(4)	24-067-14-8	
5. X-75-23-S	Plug, allen hd. 1/8"	6. 24-874-09-9	
6. 25-351-01-S	Lifter, valve (4)	04 074 40 0	(Includes 7,8)
7. 24-755-66-S	Kit, valve train (Includes 8,11,12)	24-874-10-5	Piston w/Ring Set (.25) (2)
8. 24-411-05-S	Rod, push (4)	04 074 11 0	Biston W/Biss Dat ( 50) (0)
9. 24-041-40-S 10. 24-318-12-S	Gasket, cylinder head (2) Head assembly, #2 cylinder	24-874-11-5 24-874-15-5	
10. 24-310-12-3	Head assembly, #2 Cylinder	7. 24-108-08-9	
11. 25-186-01-S	Arm, rocker (4)	24-108-09-5	
12. 24-599-01-S	Pivot, rocker arm (4)	24-108-10-5	6 Ring Set (.50) (2)
13 M-640034-S	Screw, hex. flange M6x1.0x34	8. 24-018-01-5	
10. 11 010001 0	(4)	9. 12-422-09-5	
14. 24-086-44-S	Screw, hex. flange M10x1.5x90	12-422-13-5	
	(8)	12-422-07-9	
15. 24-755-74-S	Kit, valve cover - plain	12-422-08-9	
	(Includes 16,17)	12-422-10-5	S Shim, camshaft
16. 24-153-16-S	O-Ring	12-422-11-5	Shim, camshaft (A.R.)
17. 24-086-32-S	Screw, shoulder (4)	12-422-12-5	
18. 24-445-01-S	Strap, lifting	10. 24-010-06-9	6 Camshaft (Includes 11,12)
19. 24-016-01-S	Valve, exhaust (Std.) (2)		
24-016-02-S	Valve, exhaust (.25) (2)	11. 24-089-35-8	
20. 24-017-01-S	Valve, intake (Std.) (2)	12. 24-089-34-9	
24-017-02-S	Valve, Intake (.25) (2)	13. 52-139-09-9	
21. 24-032-05-S	Seal, valve stem (2)	14. M-0545010-	
22. 235011-S	Retainer, spring (4)	17 01 010 011	(2)
23. 24-089-02-S	Spring, valve (4)	15. 24-018-04-9	
24. 12-173-01-S	Cap, valve spring (4)	16. 24-402-05-	,
25. 12-755-03-S 26. 24-318-11-S	Kit, retainer (4)	17. 12-153-01-5 18. 24-126-19-5	
20. 24-310-11-3	Head assembly, #1 cylinder	19. 12-123-04-9	
27. 24-755-76-S	Kit valve cover breather	20. M-545016-9	
27. 24-700-70-0	Kit, valve cover - breather (Incl.16,17,28)	21. 12-153-02-9	6 O-Ring, upper oil fill tube
28. 25-313-02-S	Grommet, rubber	22. 24-038-04-9	
29. 24-755-57-S	Kit, breather separator	22. 24000040	23,24)
20. 24 100 01 0	(Includes 28,30-33)	23. 24-755-46-9	
30. M-545016-S	Screw, hex. flange M5x0.8x16		
	(2)	24. 12-153-03-9	O-Ring, dipstick
31. 24-445-02-S	Strap, breather	25. 12-380-04-9	
32. 24-126-44-S	Bracket, breather separator	26. M-631005-9	
	• •	27. 12-032-01-5	
33. 24-112-12-S	Spacer	*	
34. 24-294-06-S	Fitting	28. X-25-102-S	
35. 24-326-13-S	Hose, breather	29. 24-144-01-5	S Shaft, governor cross
36. 24-326-14-S	Hose, breather		
37. X-426-9-S	Clamp, hose (2)	NOTE: All com	ponent dimensions given In U.S.

NOTE: All component dimensions given In U.S inches1 inch = 25.4 mm

# KOHLER ENGINE-MODEL NUMBER 917.2/3080



#### TRACTOR -- MODEL NUMBER 917.273080

KEY NO.

#### KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534

#### IGNITION/CHARGING

KE NC		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	Fan
7.	12-086-14-S	Screw, hex. flange M10x1.5x46
	12-468-03-S	Washer, plain 3/8".
	X-42-15-\$	Key
	24-025-04-S	Flywheel
	25-403-03-S	Rectifier-regulator
	X-25-92-S	Washer, plain 3/16" (2)
	24-086-18-S	Screw, phillips hd. 11-16x7/8 (2)
	236602-S	Connector (3 contact)
15.	54-755-09 <b>-</b> S	Kit, 15 amp stator
		(Includes 24 126 71)
	12-132-06-S	Spark Plug (2)
	M-548025-S	Screw, hex. cap M5x0.8x25 (2)
	48-154-02-S	Clip, cable
	X-25-63-S	Washer, plain 1/4"
	24-584-01-S	Module, ignition (2)
21.	M-545020-S	Screw, hex flange
~ ~	0 054 70 0	M5x0.8x20 (4)
24.	2-351-73-S	Clip, cable
NO	TILLUSTRATED	
	24-126-71-S	Bracket, stator wire
	X-22-11-S	Washer, lock 1/4*
	24-176-79-S	Hamess, wiring
		Lead, black (rectreg. 5" - 12
		Cauce

25-518-28-S insulated grip barrel eyelets) 24-113-18-S Decal, grass screen 12-454-03-S Tie, wire

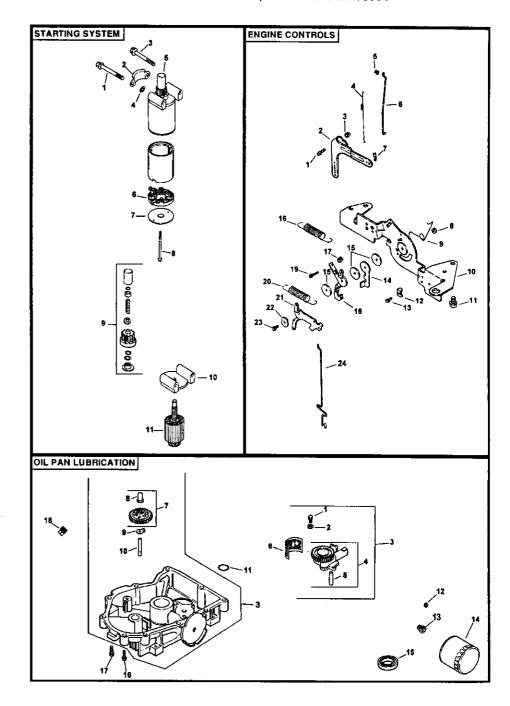
#### **BLOWER HOUSING & BAFFLES**

PART NO. DESCRIPTION

1.	24-027-20-S	Housing, blower (includes 2-4)
~		(Incl. M-0545010 & 24 063 36)
2. 3.	24-100-01-S	Nut, plastic (3)
3. 4.	24-100-02-S 25-139-16-S	Nut, plastic (2)
	M-545020-S	Plug, button 9/16"
		Screw, hex. flange M5x0.8x20 (4)
7	M-0545016-S M-0551016-S	Screw, hex. flange M5x0.8x16 (3) Screw, hex. flange M5x0.8x16
	M-0645016-S	Screw, hex. flange M6x1.0x16 (6)
	24-146-16-S	Plate, backing - # 2 side
	24-146-20-S	Plate, backing - # 1 side
	24-063-20-S	Baffle, cylinder barrel-# 2 side
	24-063-14-S	Baffle, valley - #2 side
13.	24-063-30-S	Baffle, cylinder barrel-# 1 side
	24-063-23-S	Baffle, valley - #1 side
15.	M-545010-S	Screw, hex. flange M5x0.8x10 (2)
	TILLUSTRATE	<b>•</b>
110	24-096-66-S	Cover, control
	24-086-06-S	Screw philling bd 11.16v3/4*/9
	24-086-06-S	Screw, phillips hd. 11-16x3/4* (2
Alf	24-086-06-S R INTAKE/FI	•
Alf KE	R INTAKE/FI	•
KE	R INTAKE/FI Y PART	•
KE NC	R INTAKE/FI Y PART ). NO.	LTRATION DESCRIPTION
KE NC	R INTAKE/FI Y PART D. NO. 24-164-06-S	LTRATION DESCRIPTION Manifold, intake
KE NC 1. 2.	R INTAKE/FI Y PART D. NO. 24-164-06-S M-651055-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4)
KE NC	R INTAKE/FI Y PART D. NO. 24-164-06-S M-651055-S	LTRATION DESCRIPTION Manifold, intake
KE NC 1. 2. 3.	R INTAKE/FI Y PART D. NO. 24-164-06-S M-651055-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2)
KE NC 1. 2. 3. 4.	R         INTAKE/Fill           Y         PART           O.         NO.           24-164-06-S         M-651055-S           M-651055-S         24-041-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4)
KE NC 1. 2. 3. 4. 5. 6.	PART           Y         PART           24-164-06-S           M-651055-S           24-041-01-S           24-041-14-S           24-041-18-S           24-041-13-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner
KENC 1. 2. 3. 4. 5. 6. 7.	A INTAKE/Fi           Y         PART           24-164-06-S           M-651055-S           24-041-01-S           24-041-01-S           24-041-14-S           24-041-13-S           24-041-13-S           24-041-3-S           24-041-3-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base
KENC 1.2.3. 4.5.6.7.8.	R INTAKE/FI Y PART 0. NO. 24-164-06-S M-651055-S 24-041-01-S 24-041-01-S 24-041-13-S 24-094-18-S 24-094-18-S 24-094-18-S 24-09-09-S 24-083-05-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup
KENC 1.2.3.4.5.6.7.8.9.	R INTAKE/Fi Y PART NO. 24-164-06-S M-651055-S 24-041-01-S 24-041-01-S 24-041-14-S 24-094-18-S 24-041-13-S 24-083-05-S 24-083-03-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, fuel spitback Precleaner, element Element, air cleaner
KENC 1.2.3.4.5.6.7.8.9.10.	A INTAKE/Fi           Y         PART           24-164-06-S           M-651055-S           24-041-01-S           24-041-114-S           24-041-13-S           24-041-13-S           24-041-13-S           24-03-05-S           24-03-05-S           231032-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, fuel spitback Precleaner, element Element, air cleaner Seal, breather
<b>KEN</b> 1.2.3.4.5.6.7.8.9.10. 11.	A INTAKE/Fi           Y         PART           0.         NO.           24-164-06-S         M-651055-S           24-041-01-S         24-041-01-S           24-041-13-S         24-041-13-S           24-041-13-S         24-041-13-S           24-083-05-S         24-083-05-S           231032-S         231032-S           24-06-01-S         S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, breather Cover, inner air cleaner
KEC 1.2.3. 4.5.6.7.8.9.10.11.12.	R         INTAKE/FI           Y         PART NO.           24-164-06-S         M-651055-S           24-041-01-S         24-041-01-S           24-041-01-S         24-094-18-S           24-094-18-S         24-094-18-S           24-094-18-S         24-090-95           24-083-05-S         24-083-03-S           231032-S         24-096-01-S           12-100-01-S         12-100-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) 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
KEC 1.2.3.4.5.6.7.8.9.10.1.12.13.	A INTAKE/Fi           Y         PART           X.         NO.           24-164-06-S         M-651055-S           24-041-01-S         24-041-01-S           24-041-14-S         24-041-13-S           24-041-13-S         24-041-13-S           24-041-13-S         24-093-03-S           24-094-18-S         24-093-03-S           24-093-03-S         231032-S           24-096-01-S         12-100-01-S           24-096-73-S         12-100-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, fuel spitback ment Element, air cleaner Seal, breather Cover, inner air cleaner Wing Nut Cover, air cleaner
KEC 1.2.3.4.5.6.7.8.9.10.1.12.13.	R         INTAKE/FI           Y         PART NO.           24-164-06-S         M-651055-S           24-041-01-S         24-041-01-S           24-041-01-S         24-094-18-S           24-094-18-S         24-094-18-S           24-094-18-S         24-090-95           24-090-95         24-090-95           24-083-03-S         231032-S           24-096-01-S         12-100-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, fuel spitback cup Cup, fuel spitback Precleaner, element Element, air cleaner Seal, breather Cover, inner air cleaner WingNut Cover, air cleaner Kit, knob with seal
<b>KEO</b> 1.2.3.4.5.6.7.8.9.10.112.13.14.	A INTAKE/Fi           Y         PART NO.           24-164-06-S M-651055-S 24-041-01-S           24-041-13-S 24-041-13-S 24-094-18-S 24-083-03-S 24-083-03-S 24-083-03-S 24-083-03-S 24-083-03-S 24-096-01-S 12-100-01-S 12-100-01-S 54-755-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner base Cover, inner air cleaner Wing Nut Cover, air cleaner Kit, knob with seal (includes 15 & 16)
<b>KEO</b> 1.2.3.4.5.6.7.8.9.10.1.12.13.14 15.	R         INTAKE/Fi           Y         PART NO.           24-164-06-S M-651055-S 24-041-01-S         Model Subsection 24-041-01-S           24-041-01-S 24-094-18-S 24-094-01-S         Subsection 24-090-09-S 24-093-03-S 231032-S 24-096-01-S 12-100-01-S 24-096-01-S 12-100-01-S 54-755-01-S           24-096-73-S 54-755-01-S         Subsection 25-341-03-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner Gasket, fuel spitback cup Cup, 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
<b>KEO</b> 1.2.3.4.5.6.7.8.9.10.1.12.13.14 15.	A INTAKE/Fi           Y         PART NO.           24-164-06-S M-651055-S 24-041-01-S           24-041-13-S 24-041-13-S 24-094-18-S 24-083-03-S 24-083-03-S 24-083-03-S 24-083-03-S 24-083-03-S 24-096-01-S 12-100-01-S 12-100-01-S 54-755-01-S	LTRATION DESCRIPTION Manifold, intake Screw, hex. flange M6x1.0x55 (4) Gasket, intake manifold (2) Gasket, air cleaner base Base, air cleaner base Cover, inner air cleaner Wing Nut Cover, air cleaner Kit, knob with seal (includes 15 & 16)

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

## TRACTOR -- MODEL NUMBER 917.273080 KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534



#### TRACTOR-MODEL NUMBER 917.273080

#### KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534

#### STARTING SYSTEM

KE	Y PART	
NC	). NO.	DESCRIPTION
1.	M-839070-S	Screw, hex. flange M8x1.25x70
2.	24-096-05-S	Cover, pinion
З.	M-839080-S	Screw, hex. flange M8x1.25x80
4.	12-468-01-S	Washer, plain 11/32* (3)
5.	25-098-05-S	Starter, (includes 6-11)
6.	12-221-01-S	Kit, brush
7.	12-227-13-S	Cap
8.	12-211-01-S	Bolt, thru (2)
9.	12-755-54-S	Kit, drive
10.	12-227-06-S	Cap, drive end
11.	12-170-05-S	Armature

#### ENGINE CONTROLS

KE NO		DESCRIPTION
1.	M-642025-S	Screw, hex. flange M6x1.0x25
2.	24-090-14-\$	Lever, governor
3.		Nut, hex. flange M6x1.0
4.		Spring, linkage
	25-158-08-S	Bushing, linkage retaining
	24-079-04-S	Linkage, throttle
	25-158-11-S	Bushing, throttle linkage
	M-547050-S	Nut, hex. lock M5x0.8
	24-089-03-S	Spring, choke return
	24-126-56-S	Bracket, control
11.	M-645016-S	Screw, hex. flange M6x1.0x16 (4)
12.	12-237-01-S	Clamp, cable (2)
13.	24-086-43-S	Screw, hex. flange M5x0.8x16 (2)
14	24-090-07-S	Lever, thorttle actuator
	24-468-01-S	Washer, plain 5.5 mm (3)
16.	24-089-18-S	Spring, governor
17.	M-446030-S	Nut, hex M4x0.7
18.	24-090-13-S	Lever, throttle control
19.	M-545020-S	Screw, hex. flange M5x0.8x20
20.	24-089-51-S	Spring, throttle limiter
	24-090-05-S	Lever, choke
	41-468-03-S	Washer, spring 1/4"
23.	M-403025-S	Screw, hex. cap M4x0.7x25
24.	24-079-05-S	Linkage, choke
NOT	<b>ILLUSTRATED</b>	

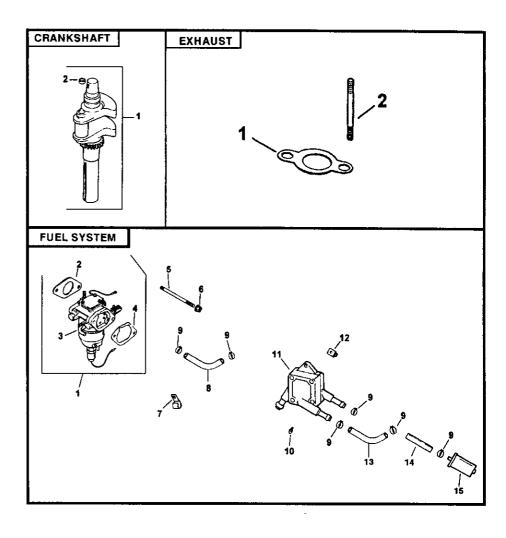
#### **OIL PAN/LUBRICATION**

	PART NO.	DESCRIPTION
1. M-64502 2. M-63100 3. 24-199-0	)5-S	Screw, hex. flange M6x1.0x25 (2) Washer, plain 6 mm (2) Pan, oil assembly (Includes 1,2,84-10)
4. 24-393-0 5. 24-123-0 6. 24-162-2 7. 24-043-1	05-S 26-S	Oil pump assembly (Includes 5) Tube, oil pickup Screen, oil Kit, governor gear w/pin
8. 12-380-0 9. 52-448-0 10. 12-144-0 11. 24-153-0 12. X-75-32-	)2-S )2-S )8-S	(Includes 8) Pin, governor regulating Tab, locking Shaft, governor gear O-Ring Plug, hex. ctsk. 3/8*
13. 24-136-0 14. 52-050-0 15. 52-032-0 16. 24-086-1 17. 24-086-1 18. X-75-10-	)2-S )8-S 17-S 16-S	Nipple, oil filter Filter, oil Seal, oil (PTO end) Screw, hex. flange M8x1.25x45 Screw, hex. flange M8x1.25x45 (9) Plug, sq. hd. solid 3/8" N.P.T.F.

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

M-545016-S Screw, hex. flange M5X0.8X16 (Goes into 24-126-56 as a positive throttle stop)

## TRACTOR -- MODEL NUMBER 917.273080 KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534



## TRACTOR -- MODEL NUMBER 917.273080 KOHLER ENGINE-MODEL NUMBER CV22, TYPE NUMBER 75534

#### CRANKSHAFT

KE' NO		DESCRIPTION
	24-014-72-S 52-139-09-S	Crankshaft (Includes 2) Plug, cup
EXI	HAUST	

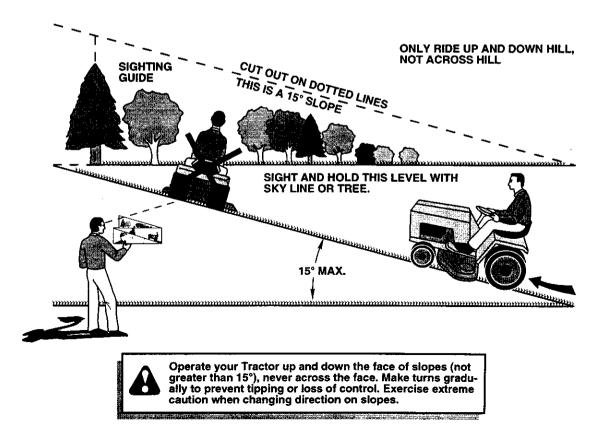
KE NC		T DESCRIPTION
2.	24-041-02-S 25-072-04-S 24 755 103-S	Gasket, exhaust (2) Stud, M8x1.25x33 (4) Gasket Set

#### FUEL SYSTEM

KE NO	-	PART NO.	DESCRIPTION
2.	24-853 24-041 24-853	-15-S	Kit, carburetor w/gaskets (Includes 2-4) Gasket, carburetor Carburetor assembly (For
	M-6290 M-6410		information only not available separately) Stud, M6x1.0x95 (2) Nut, hex. flange M6x1.0 (2)
8. 9. 10. 11. 12. 13. 14.	47-154 52-353 X-426- 24-086 24-393 24-100 24-353 15-353 24-050	-22-S 9-S -12-S -16-S -01-S -03-S -04-S	Clip, cable Line, fuel 12" (2) Clamp, hose (6) Screw, hex. cap. M6x1.7x18 (2) Pump, fuel - pulse Nut, plastic (2) Line, Fuel 10 5/8" Line, fuel 11-1/2" Filter, fuel

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

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