

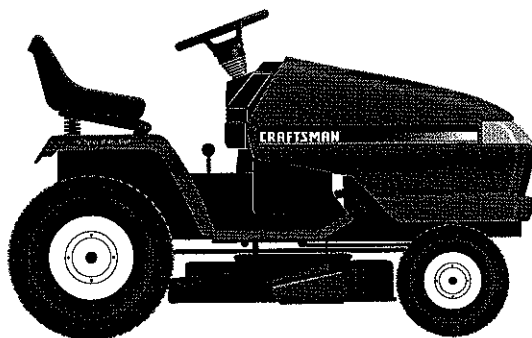
# Owner's Manual

# CRAFTSMAN®

## 22.0 HP ELECTRIC START 50" MOWER 6 SPEED GARDEN TRACTOR

Model No.  
917.273090

- 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, IL 60179

Visit our Craftsman website: [www.sears.com/craftsman](http://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.

### I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- 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 mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

### II. SLOPE OPERATION

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

#### DO:

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

#### DO NOT:

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

## SAFETY RULES

### III. CHILDREN

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

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

### IV. SERVICE

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

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



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

## SAFETY RULES

- 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.

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

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

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

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

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

**▲WARNING:** Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Wash hands after handling.**

## PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 10W30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	W/FILTER: 4.5PINTS W/O FILTER: 4.0PINTS
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC
GROUND SPEED (MPH):	LO: 0.7 1.4 2.3 REVERSE: 0.9 HI: 1.7 3.3 5.4 2.1
TIRE PRESSURE:	FRONT: 14 PSI 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 new tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

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

## MAINTENANCE AGREEMENT

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

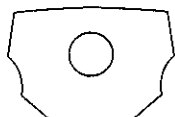
## CUSTOMER RESPONSIBILITIES

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

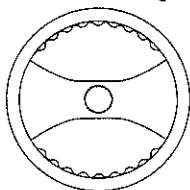
**⚠WARNING:** This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark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

# UNASSEMBLED PARTS

## Steering Wheel



Steering Wheel Insert

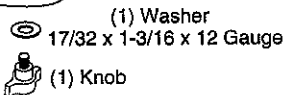
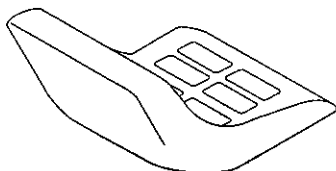


Steering Sleeve

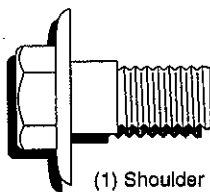


Steering Sleeve Extension

## Seat

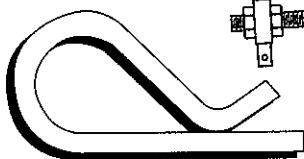


(1) Washer  
17/32 x 1-3/16 x 12 Gauge  
(1) Knob

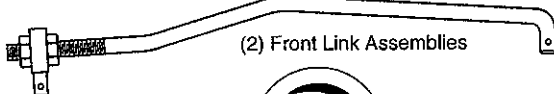


(1) Shoulder Bolt 5/16-18

## Mower



(4) Retainer Springs (single loop)

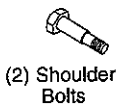


(2) Front Link Assemblies

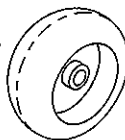


(3) Retainer Springs (double loop)

## Gauge Wheels



(2) Shoulder Bolts



(2) Wheels

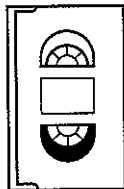


(2) Centerlock Nuts

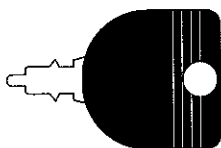


(2) Washers 3/8 x 3/4 x 14 Ga.

## Video Cassette

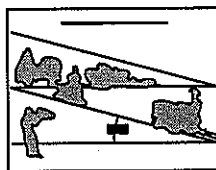


## Keys



(2) Keys

## Slope Sheet



## ASSEMBLY

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

### TOOLS REQUIRED FOR ASSEMBLY

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

- (1) 9/16" wrench
- (1) 1/2" wrench
- (1) 3/4" socket with drive ratchet
- (1) Pliers
- (1) Utility knife

- (1) Tire pressure gauge

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

### TO REMOVE TRACTOR FROM CARTON

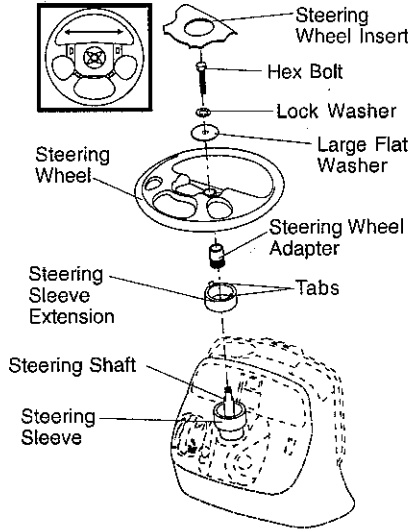
#### UNPACK CARTON

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

### BEFORE REMOVING TRACTOR FROM SKID

#### ATTACH STEERING WHEEL

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

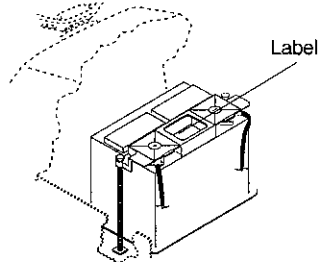


**IMPORTANT:** Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.

### HOW TO SET UP YOUR TRACTOR CHECK BATTERY

1. Lift hood to raised position.

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



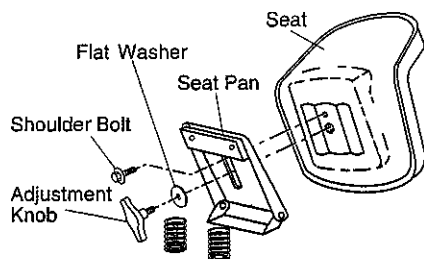


## ASSEMBLY

### INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



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

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

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

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

**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.

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

### 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.

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

**IMPORTANT:** Check belt for proper routing in all mower pulley grooves. Install belt into electric clutch pulley groove.

3. Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
4. Install second front link in R.H. front suspension bracket only and retain with single loop retainer spring as shown.

5. Slide right side of mower back and install link in top hole of R.H. front mower bracket. Retain with single loop retainer spring as shown.
6. Turn height adjustment knob counter-clockwise until it stops.
7. Lower mower linkage with attachment lift control.
8. Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms. Retain with double loop retainer springs with loops down as shown.
9. Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
10. Turn height adjustment knob clockwise to remove slack from mower suspension.
11. Raise deck to highest position.
12. Assemble gauge wheel bars to brackets using clevis pins and double loop retainer springs.
13. Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers, and 3/8-16 center locknuts. Tighten securely.
14. Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

## CHECK TIRE PRESSURE

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

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

## CHECK MOWER LEVELNESS

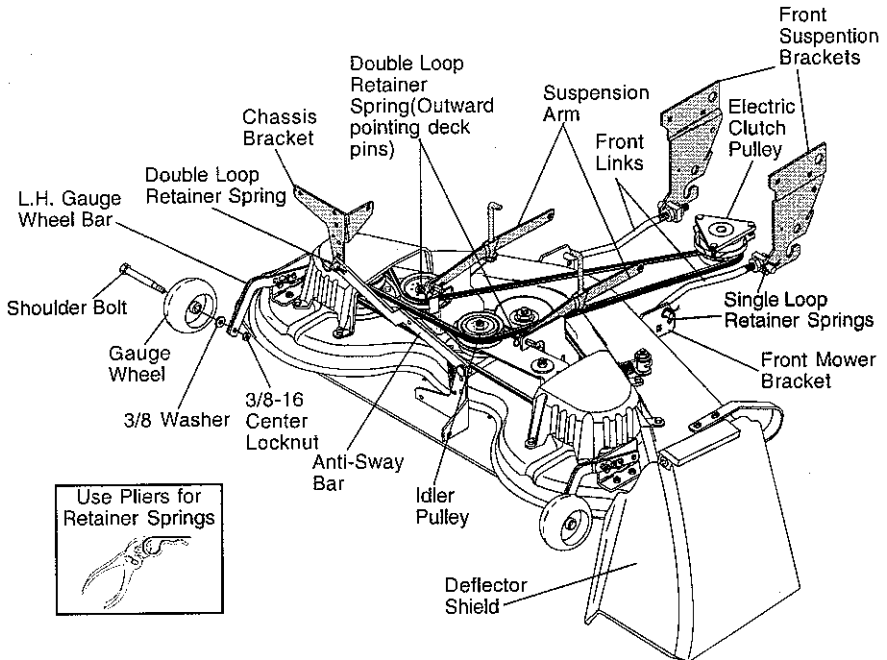
For best cutting results, mower should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

## 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:

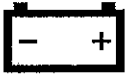
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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

While learning how to use your tractor, pay extra attention to the following important items:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls - their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

# OPERATION

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



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



LIGHTS ON



OVER TEMP LIGHT



MOWER LIFT



FUEL



CHOKE



MOWER HEIGHT



PARKING BRAKE LOCKED



UNLOCKED



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR



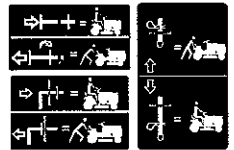
SLOPE HAZARDS



(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY

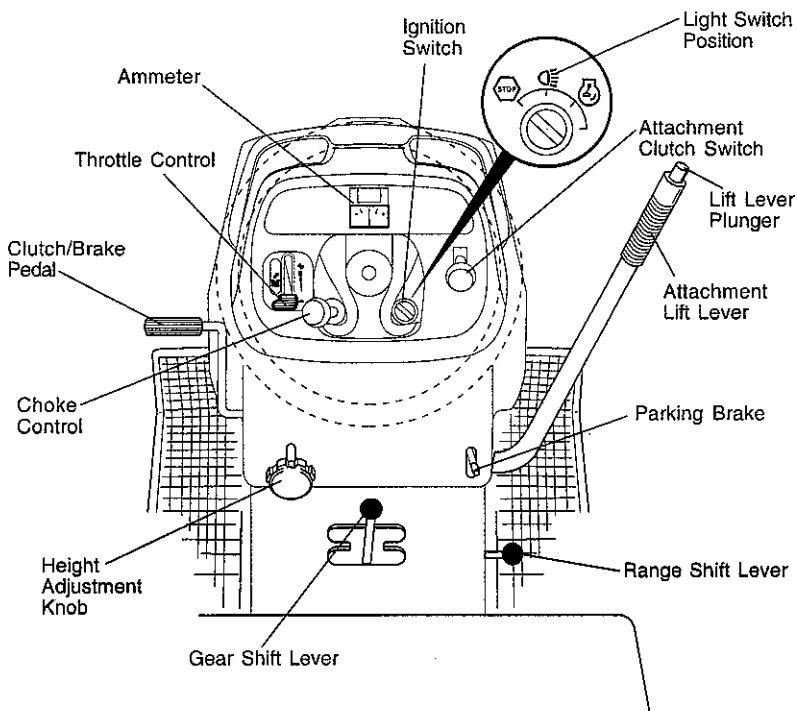


FREE WHEEL  
(Automatic Models only)

## KNOW YOUR TRACTOR

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

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



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

**ATTACHMENT CLUTCH 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.

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

**RANGESHIFT LEVER:** Allows high (H) and low (L) speed for all forward and reverse gears.

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

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

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

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

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

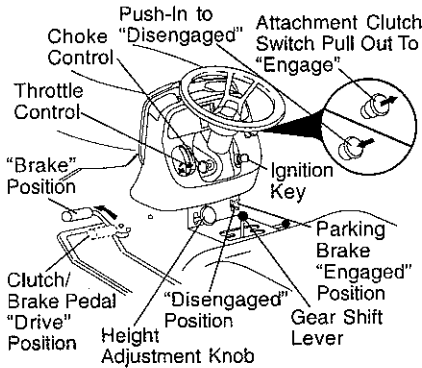


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety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

1. Depress clutch/brake pedal into full "BRAKE" position and hold.
2. Place parking brake lever in "ENGAGED" 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 gearshift lever to neutral (N) position.

### ENGINE -

- Move throttle control to slow position.  
**NOTE:** Failure to move throttle control to slow position and allowing engine to idle before stopping may cause engine to "backfire".
- Turn ignition key to "OFF" position and remove key. Always remove key when leaving tractor to prevent unauthorized use.

- Never use choke to stop engine.

**IMPORTANT:** Leaving the ignition switch in any position other than "OFF" will cause the battery to be discharged, (dead).

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

**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 mower performance.

## TO USE CHOKE CONTROL

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

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

## TO MOVE FORWARD AND BACKWARD

The direction and speed of movement is controlled by the gearshift lever.

1. Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
2. Move gearshift and range shift levers to desired position.
3. Slowly release clutch/brake pedal to start movement.

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

## TO ADJUST MOWER CUTTING HEIGHT

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

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

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

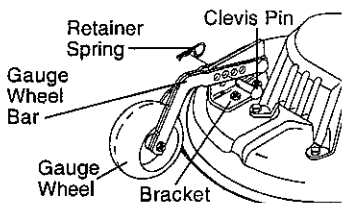
- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first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

### TO ADJUST GAUGE WHEELS

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

**NOTE:** Adjust gauge wheels with tractor on a flat level surface.

1. Adjust mower to desired cutting height.
2. Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
3. Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
4. Replace retainer springs into clevis pins.



### TO OPERATE MOWER

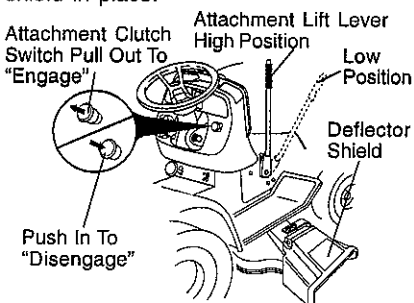
Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

1. Select desired height of cut.
2. Lower mower with attachment lift control.

3. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

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



### TO OPERATE ON HILLS

**CAUTION:** Do not drive up or down hills with slopes greater than 15° and do not drive across any slope. Use the slope guide provided at the back of this manual.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and range shift lever to low (L) position. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

### TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

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

## TOWING CARTS AND OTHER ATTACHMENTS

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

## BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.

1. Check engine oil with tractor on level ground.
  2. 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.

**▲WARNING:** 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.

**▲CAUTION:** 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.

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

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

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

**WARM WEATHER STARTING (50° F and above)**

7. 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)**

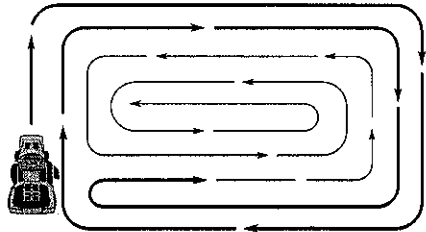
7. When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control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

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

**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.
- Use the runner on the right side of the mower as a guide. The blade cuts approximately an inch outside the runner.
- The left hand side of mower should be used for trimming.

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



# MAINTENANCE

MAINTENANCE SCHEDULE		SERVICE DATES						
FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
<b>T R A C T O R</b>	Check Brake Operation	✓	✓					
	Check Tire Pressure	✓	✓					
	Check Operator Presence and Interlock Systems	✓						
	Check for Loose Fasteners	✓				7	✓	
	Sharpen/Replace Mower Blades			4				
	Lubrication Chart			✓			✓	
	Check Battery Level			6				
	Clean Battery and Terminals			✓			✓	
	Check Transaxle Cooling			✓				
	Adjust Blade Belt(s) Tension					5		
Adjust Motion Drive Belt(s) Tension					5			
<b>E N G I N E</b>	Check Engine Oil Level	✓	✓					
	Change Engine Oil			1,2,3			✓	
	Clean Air Filter			2				
	Clean Air Screen			2				
	Inspect Muffler/Spark Arrestor				✓			
	Replace Oil Filter (If equipped)					1,2		
	Clean Engine Cooling Fins					2		
	Replace Spark Plug					✓	✓	
	Replace Air Filter Paper Cartridge					✓		
	Replace Fuel Filter						✓	

- 1 - Change more often when operating under a heavy load or in high ambient temperatures.    5 - If equipped with adjustable system.  
 2 - Service more often when operating in dirty or dusty conditions.    6 - Not required if equipped with maintenance-free battery.  
 3 - If equipped with oil filter, change oil every 50 hours.    7 - Tighten front axle pivot bolt to 35 ft.-lbs. maximum.  
 4 - Replace blades more often when mowing in sandy soil.    Do not overtighten.

## 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.

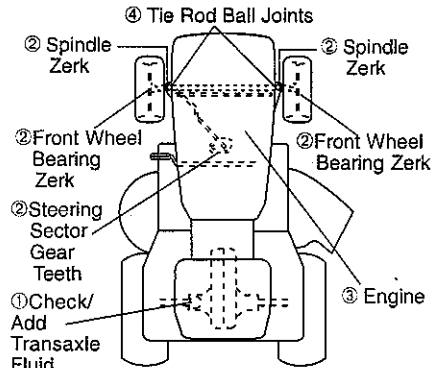
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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



- SAE 30 or 10w30 motor oil
- General Purpose Grease
- Refer to Maintenance "ENGINE" Section
- Spray silicone lubricant (Move Boots to Lubricate)

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

## TRACTOR

Always observe safety rules when performing any maintenance.

### BRAKE OPERATION

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

### TIRES

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

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

### OPERATOR PRESENCE SYSTEM

Be sure 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 attachment clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

### BLADE CARE

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

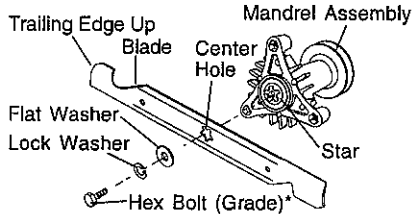
### BLADE REMOVAL

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

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

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

**IMPORTANT:** Blade bolt is grade 8 heat treated.



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

### TO SHARPEN BLADE

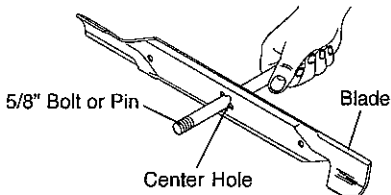
**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

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

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while 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.

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

## V-BELTS

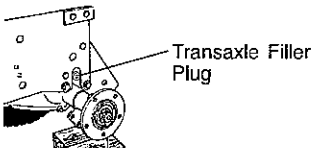
Check V-belts for deterioration and wear after 100 hours of operation and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

## TRANSAXLE COOLING

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

### CHECK TRANSAXLE OIL LEVEL

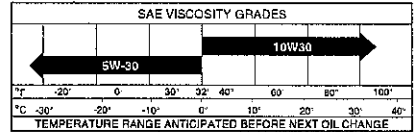
1. Block up rear axle securely.
2. Remove left rear wheel by removing hub bolts.
3. Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil, API SF, SG or SH. Replace filler plug.
4. Reassemble wheel to hub.



## ENGINE

### LUBRICATION

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



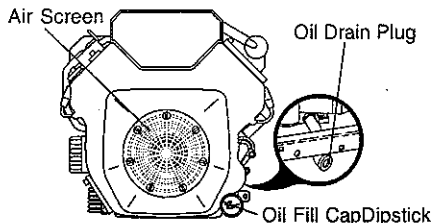
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

### TO CHANGE ENGINE OIL

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

- Be sure tractor is on level surface.
  - Oil will drain more freely when warm.
  - Catch oil in a suitable container.
1. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
  2. Remove drain plug.
  3. After oil has drained completely, replace oil drain plug and tighten securely.
  4. Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
  5. 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.

1. Loosen knob and remove cover.

### TO SERVICE PRE-CLEANER

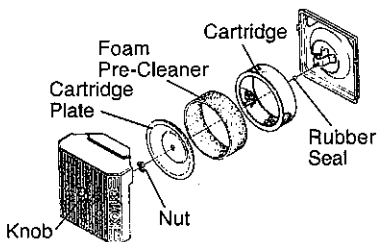
2. Slide foam pre-cleaner off cartridge.
3. Wash it in liquid detergent and water.
4. Squeeze it dry in a clean cloth. Allow it to dry.
5. Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

### 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.

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



## ENGINE OIL FILTER

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

## MUFFLER

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

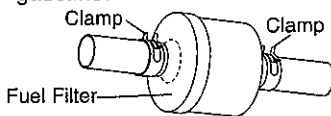
## SPARK PLUGS

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

## IN-LINE FUEL FILTER

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

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



## CLEANING

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

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

## SERVICE AND ADJUSTMENTS



### CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

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

### TRACTOR

#### TO REMOVE MOWER

1. Place attachment clutch in "DISENGAGED" position.
2. Turn height adjustment knob to lowest setting.
3. Lower mower to its lowest position.
4. Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
5. Remove retainer springs from suspension arms at deck and disengage arms from deck.
6. Raise attachment lift to its highest position.
7. Remove two retainer springs from each front link and remove links.
8. Slide mower forward and remove belt from electric clutch pulley.
9. 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 the front links.

#### TO INSTALL MOWER

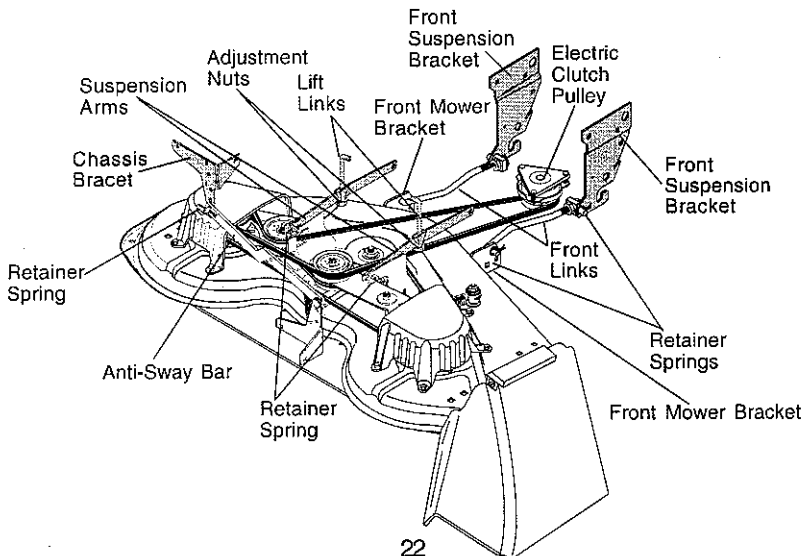
Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

#### TO LEVEL MOWER HOUSING

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

#### SIDE-TO-SIDE ADJUSTMENT

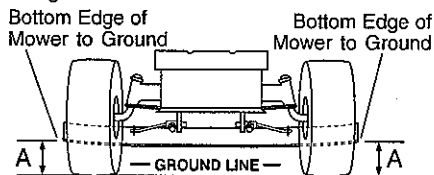
- Raise mower to its highest position.
- Measure height from bottom edge of mower to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.



- To lower one side of mower, loosen lift link adjustment nut on that side.

**NOTE:** Each full turn of adjustment nut will change mower height about 3/16".

- Recheck measurements after adjusting.



#### FRONT-TO-BACK ADJUSTMENT

**IMPORTANT:** DECK MUST BE LEVEL SIDE-TO-SIDE. If the following front-to-back adjustment is necessary, be sure to adjust both front links equally so mower will stay level side-to-side.

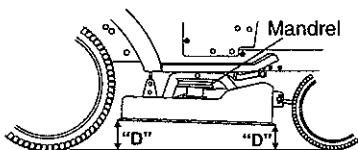
To obtain the best cutting results, the mower housing should be adjusted so the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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.

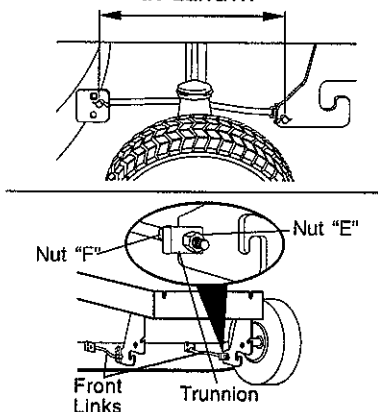
- Before making any necessary adjustments, check that both front links are equal in length.
- If links are not equal in length, adjust one link to same length as other link.
- To lower front of mower housing, loosen nut "G" on both front links an equal number of turns.
- When distance "F" is 1/8" to 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 MUST BE EQUAL IN LENGTH



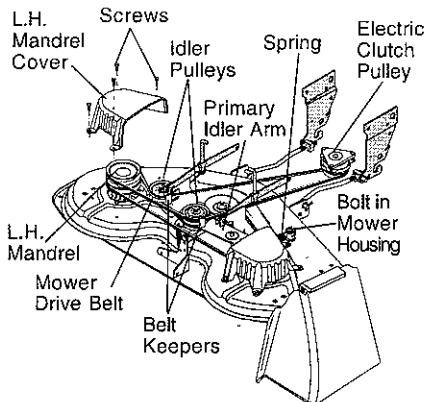
#### TO REPLACE MOWER DRIVE BELT

##### MOWER DRIVE BELT REMOVAL

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

##### MOWER DRIVE BELT INSTALLATION

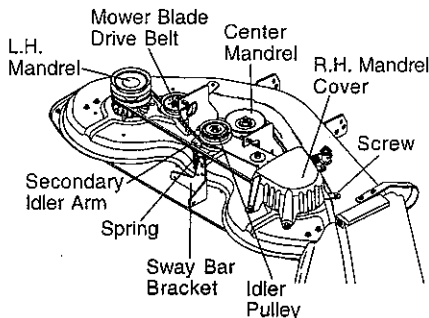
9. Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
10. Install new belt onto electric clutch pulley.
11. Roll belt into upper groove of L.H. mandrel pulley.
12. Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.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



## TO REPLACE MOWER BLADE DRIVE BELT

Park the tractor on level surface. Engage parking brake.

1. Remove mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
  2. Remove mower (See "TO REMOVE MOWER" in this section of this manual).
  3. Remove screws from R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
  4. Carefully roll belt off R.H. mandrel pulley.
  5. Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
  6. Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
  7. Check secondary idler arm and idler to see that they rotate freely.
  8. Be sure spring is hooked in secondary idler arm and sway-bar bracket.
  9. Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
  10. Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
  11. Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
  12. 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).

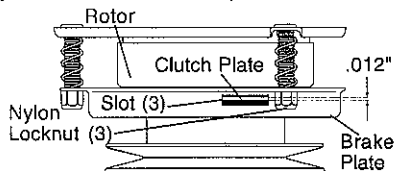


## TO ADJUST ATTACHMENT CLUTCH

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.

1. Make sure attachment clutch and ignition switches are in "OFF" position.
2. 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 left side of the transaxle.

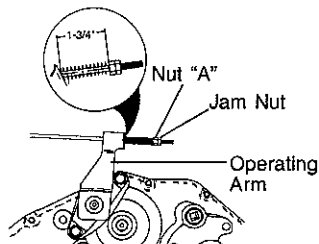
If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

1. Depress clutch/brake pedal and engage parking brake.
2. Measure distance between brake operating arm and nut "A" on brake rod.
3. If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". 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. It is not necessary to remove mower.

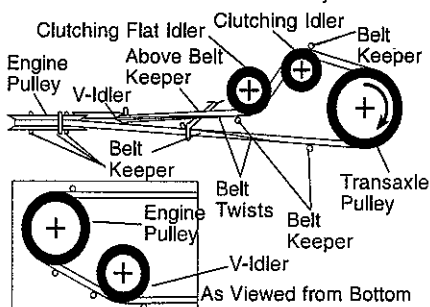
#### BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers.

#### BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- Make sure V part of belt engages V-idler.
- Place belt around transaxle pulley, beginning at top. V part of belt should engage transaxle pulley.
- Place long lower section of belt through loop in midspan belt keeper.
- Check to be sure belt is on proper side of all belt keepers.
- Reinstall mower drive belt onto electric clutch pulley.

### IMPORTANT: Check Brake Adjustment.



### 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 -

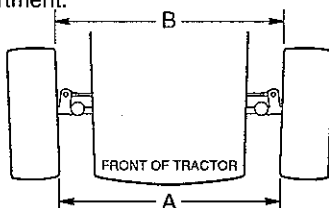
- Position front wheels straight ahead.
  - Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

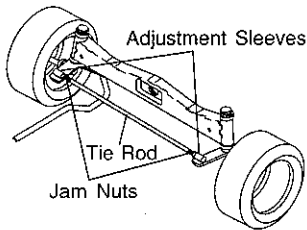
#### TO ADJUST TOE-IN -

- 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.





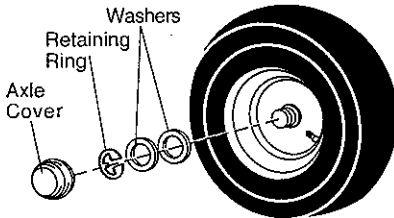
## TO REMOVE WHEEL FOR REPAIRS

### FRONT WHEEL -

1. Block up axle securely.
2. Remove axle cover, retaining ring and washers to allow wheel removal.
3. Repair tire and reassemble.
4. Replace washers and snap retaining ring securely in axle groove.
5. Replace axle cover.

### REAR WHEEL -

1. Block rear axle securely.
2. Remove five (5) hub bolts to allow wheel removal.
3. 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

**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:

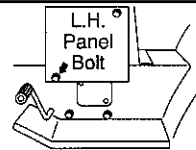
**IMPORTANT:** Your tractor is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

## TO ATTACH JUMPER CABLES -

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

## TO REMOVE CABLES, REVERSE ORDER -

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

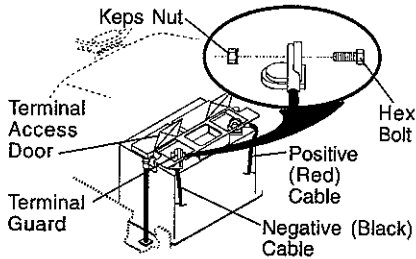


## REPLACING BATTERY

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

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

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



### TO REPLACE HEADLIGHT BULB

1. Raise hood.
2. Pull bulb holder out of the hole in the backside of the grill.
3. Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
4. 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.

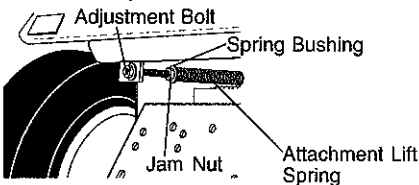
### TO REPLACE FUSE

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

### TO ADJUST ATTACHMENT LIFT SPRING

1. 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.
2. Retighten jam nut against spring bushing.

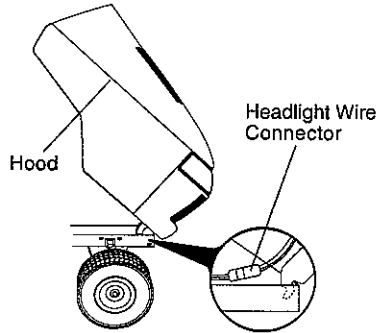
**IMPORTANT:** Do not adjust for maximum spring tension when using light attachments such as a mower. Adjust lift lever spring to aid in lifting attachment. Do not overpower spring. When removing attachment, always adjust spring tension to its lowest position.



### TO REMOVE HOOD AND GRILL ASSEMBLY

1. Raise hood.

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



### ENGINE

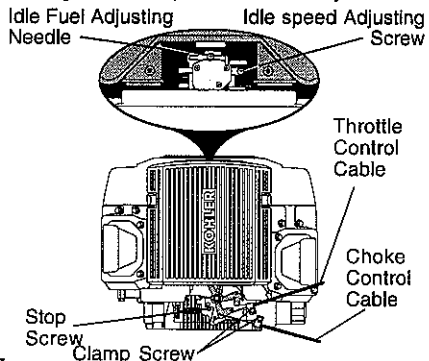
Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customer's expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

### 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:

1. With engine not running, move throttle control lever to fast position.
2. 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.

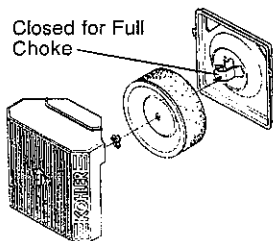
Tighten clamp screw securely.



## TO ADJUST CHOKE CONTROL

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

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



## TO ADJUST CARBURETOR

The carburetor has been present at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning the adjusting needles **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

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

### PRELIMINARY SETTING -

1. Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).

2. With engine off turn idle fuel adjusting needle **in** (clockwise) closing it finger tight and then turn **out** (counterclockwise) 1 turn.

### FINAL SETTING -

1. Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.

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

2. **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.
3. **Idle fuel needle setting** - With throttle control lever in slow position, turn idle fuel adjusting needle **in** (clockwise) until engine speed decreases and then turn **out** (counterclockwise) approximately 3/4 turn to obtain the best low speed performance.
4. Recheck idle speed. Readjust if necessary.

### ACCELERATION TEST -

5. Move throttle control lever from slow to fast position. If engine hesitates or dies, turn idle fuel adjusting needle **out** (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust-damage may result.

**IMPORTANT:** Never tamper with the engine governor, which is factory set for proper engine speed. Overspeeding the engine above the factory high speed setting can be dangerous. If you think the engine-governed high speed needs adjusting, contact your nearest authorized service center/department, which has proper equipment and experience to make any necessary adjustments.

## STORAGE

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

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

### TRACTOR

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

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

### BATTERY

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

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

1. Drain the fuel tank.
  2. 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)

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

#### OTHER

- 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
<b>Will not start</b>	<ol style="list-style-type: none"> <li>1. Out of fuel.</li> <li>2. Engine not "CHOKED" properly.</li> <li>3. Engine flooded.</li> <li>4. Bad spark plug.</li> <li>5. Dirty air filter.</li> <li>6. Dirty fuel filter.</li> <li>7. Water in fuel.</li> <li>8. Loose or damaged wiring.</li> <li>9. Carburetor out of adjustment.</li> <li>10. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill fuel tank.</li> <li>2. See "TO START ENGINE" in Operation section.</li> <li>3. Wait several minutes before attempting to start.</li> <li>4. Replace spark plug.</li> <li>5. Clean/replace air filter.</li> <li>6. Replace fuel filter.</li> <li>7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>8. Check all wiring.</li> <li>9. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>10. Contact a qualified service center.</li> </ol>
<b>Hard to start</b>	<ol style="list-style-type: none"> <li>1. Dirty air filter.</li> <li>2. Bad spark plug.</li> <li>3. Weak or dead battery.</li> <li>4. Dirty fuel filter.</li> <li>5. Stale or dirty fuel.</li> <li>6. Loose or damaged wiring.</li> <li>7. Carburetor out of adjustment.</li> <li>8. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Replace spark plug.</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuel filter.</li> <li>5. Drain fuel tank and refill with fresh gasoline.</li> <li>6. Check all wiring.</li> <li>7. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>8. Contact a qualified service center.</li> </ol>
<b>Engine will not turn over</b>	<ol style="list-style-type: none"> <li>1. Clutch/brake pedal not depressed.</li> <li>2. Attachment clutch is engaged.</li> <li>3. Weak or dead battery.</li> <li>4. Blown fuse.</li> <li>5. Corroded battery terminals.</li> <li>6. Loose or damaged wiring.</li> <li>7. Faulty ignition switch.</li> <li>8. Faulty solenoid or starter.</li> <li>9. Faulty operator presence switch(es).</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress clutch/brake pedal.</li> <li>2. Disengage attachment clutch.</li> <li>3. Recharge or replace battery.</li> <li>4. Replace fuse.</li> <li>5. Clean battery terminals.</li> <li>6. Check all wiring.</li> <li>7. Check/replace ignition switch.</li> <li>8. Check/replace solenoid or starter.</li> <li>9. Contact a qualified service center.</li> </ol>
<b>Engine clicks but will not start</b>	<ol style="list-style-type: none"> <li>1. Weak or dead battery.</li> <li>2. Corroded battery terminals.</li> <li>3. Loose or damaged wiring.</li> <li>4. Faulty solenoid or starter.</li> </ol>	<ol style="list-style-type: none"> <li>1. Recharge or replace battery.</li> <li>2. Clean battery terminals.</li> <li>3. Check all wiring.</li> <li>4. Check/replace solenoid or starter.</li> </ol>

## TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
<b>Loss of power</b>	<ol style="list-style-type: none"> <li>1. Cutting too much grass/too fast.</li> <li>2. Throttle in "CHOKE" position.</li> <li>3. Build-up of grass, leaves and trash under mower.</li> <li>4. Dirty air filter.</li> <li>5. Low oil level/dirty oil.</li> <li>6. Faulty spark plug.</li> <li>7. Dirty fuel filter.</li> <li>8. Stale or dirty fuel.</li> <li>9. Water in fuel.</li> <li>10. Spark plug wire loose.</li> <li>11. Dirty engine air screen/fins.</li> <li>12. Dirty/clogged muffler.</li> <li>13. Loose or damaged wiring.</li> <li>14. Carburetor out of adjustment.</li> <li>15. Engine valves out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Set in "Higher Cut" position/ reduce speed.</li> <li>2. Adjust throttle control.</li> <li>3. Clean underside of mower housing.</li> <li>4. Clean/replace air filter.</li> <li>5. Check oil level/change oil.</li> <li>6. Clean and regap or change spark plug.</li> <li>7. Replace fuel filter.</li> <li>8. Drain fuel tank and refill with fresh gasoline.</li> <li>9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter.</li> <li>10. Connect and tighten spark plug wire.</li> <li>11. Clean engine air screen/fins.</li> <li>12. Clean/replace muffler.</li> <li>13. Check all wiring.</li> <li>14. See "To Adjust Carburetor" in Service Adjustments section.</li> <li>15. Contact a qualified service center.</li> </ol>
<b>Excessive vibration</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Bent blade mandrel.</li> <li>3. Loose/damaged part(s).</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Replace blade mandrel.</li> <li>3. Tighten loose part(s). Replace damaged parts.</li> </ol>
<b>Engine continues to run when operator leaves seat with attachment clutch engaged</b>	<ol style="list-style-type: none"> <li>1. Faulty operator-safety presence control system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check wiring, switches and connections. If not corrected, contact a qualified service center.</li> </ol>
<b>Poor cut - uneven</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Mower deck not level.</li> <li>3. Buildup of grass, leaves, and trash under mower.</li> <li>4. Bent blade mandrel.</li> <li>5. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Level mower deck.</li> <li>3. Clean underside of mower housing.</li> <li>4. Replace blade mandrel.</li> <li>5. Clean around mandrels to open vent holes.</li> </ol>

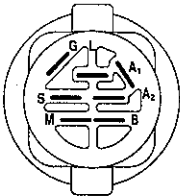
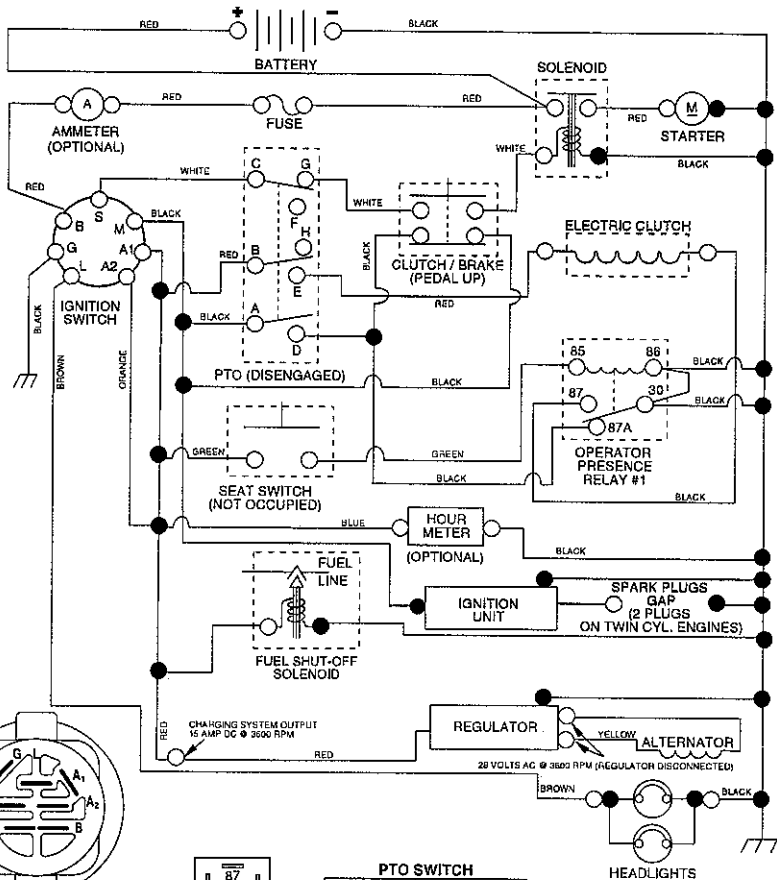
## TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
<b>Mower blades will not rotate</b>	<ol style="list-style-type: none"> <li>1. Obstruction in clutch mechanism.</li> <li>2. Worn/damaged mower drive belt.</li> <li>3. Frozen idler pulley.</li> <li>4. Frozen blade mandrel.</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove obstruction.</li> <li>2. Replace mower drive belt.</li> <li>3. Replace idler pulley.</li> <li>4. Replace blade mandrel.</li> </ol>
<b>Poor grass discharge</b>	<ol style="list-style-type: none"> <li>1. Engine speed too slow.</li> <li>2. Travel speed too fast.</li> <li>3. Wet grass.</li> <li>4. Mower deck not level.</li> <li>5. Low/uneven tire air pressure.</li> <li>6. Worn, bent or loose blade.</li> <li>7. Buildup of grass, leaves and trash under mower.</li> <li>8. Mower drive belt worn.</li> <li>9. Blades improperly installed.</li> <li>10. Improper blades used.</li> <li>11. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.</li> </ol>	<ol style="list-style-type: none"> <li>1. Place throttle control in "FAST" position.</li> <li>2. Shift to slower speed.</li> <li>3. Allow grass to dry before mowing.</li> <li>4. Level mower deck.</li> <li>5. Check tires for proper air pressure.</li> <li>6. Replace/sharpen blade. Tighten blade bolt.</li> <li>7. Clean underside of mower housing.</li> <li>8. Replace mower drive belt.</li> <li>9. Reinstall blades sharp edge down.</li> <li>10. Replace with blades listed in this manual.</li> <li>11. Clean around mandrels to open vent holes.</li> </ol>
<b>Headlight(s) not working (if so equipped)</b>	<ol style="list-style-type: none"> <li>1. Switch is "OFF".</li> <li>2. Bulb(s) burned out.</li> <li>3. Faulty light switch.</li> <li>4. Loose or damaged wiring.</li> <li>5. Blown fuse.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn switch "ON".</li> <li>2. Replace bulb(s).</li> <li>3. Check/replace light switch.</li> <li>4. Check wiring and connections.</li> <li>5. Replace fuse.</li> </ol>
<b>Battery will not charge</b>	<ol style="list-style-type: none"> <li>1. Bad battery cell(s).</li> <li>2. Poor cable connections.</li> <li>3. Faulty regulator (if so equipped).</li> <li>4. Faulty alternator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Check/clean all connections.</li> <li>3. Replace regulator.</li> <li>4. Replace alternator.</li> </ol>
<b>Engine "backfires" when turning engine "OFF"</b>	<ol style="list-style-type: none"> <li>1. Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.</li> </ol>



**SCHEMATIC**

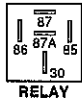
**TRACTOR -- MODEL NUMBER 917.273090**



**IGNITION SWITCH**

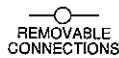
POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

**WIRING INSULATED CLIPS**  
**NOTE:** IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



**RELAY**

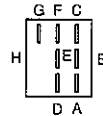
PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



**REMOVABLE CONNECTIONS**



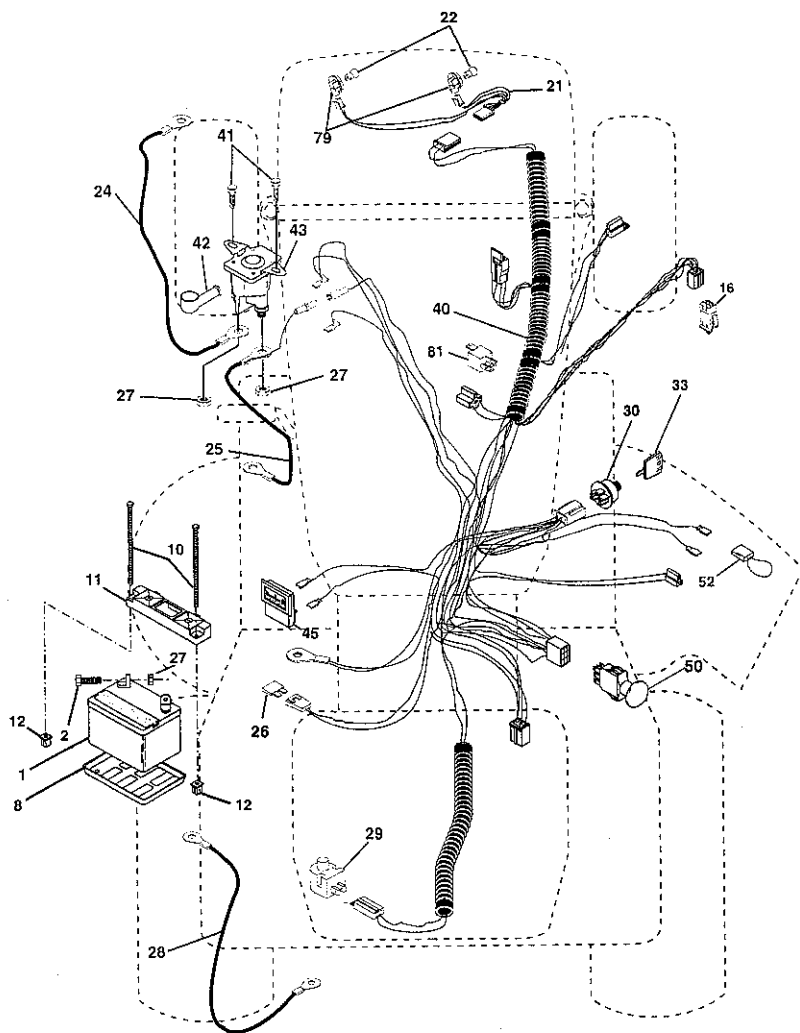
**NON-REMOVABLE CONNECTIONS**



# REPAIR PARTS

TRACTOR -- MODEL NUMBER 917.273090

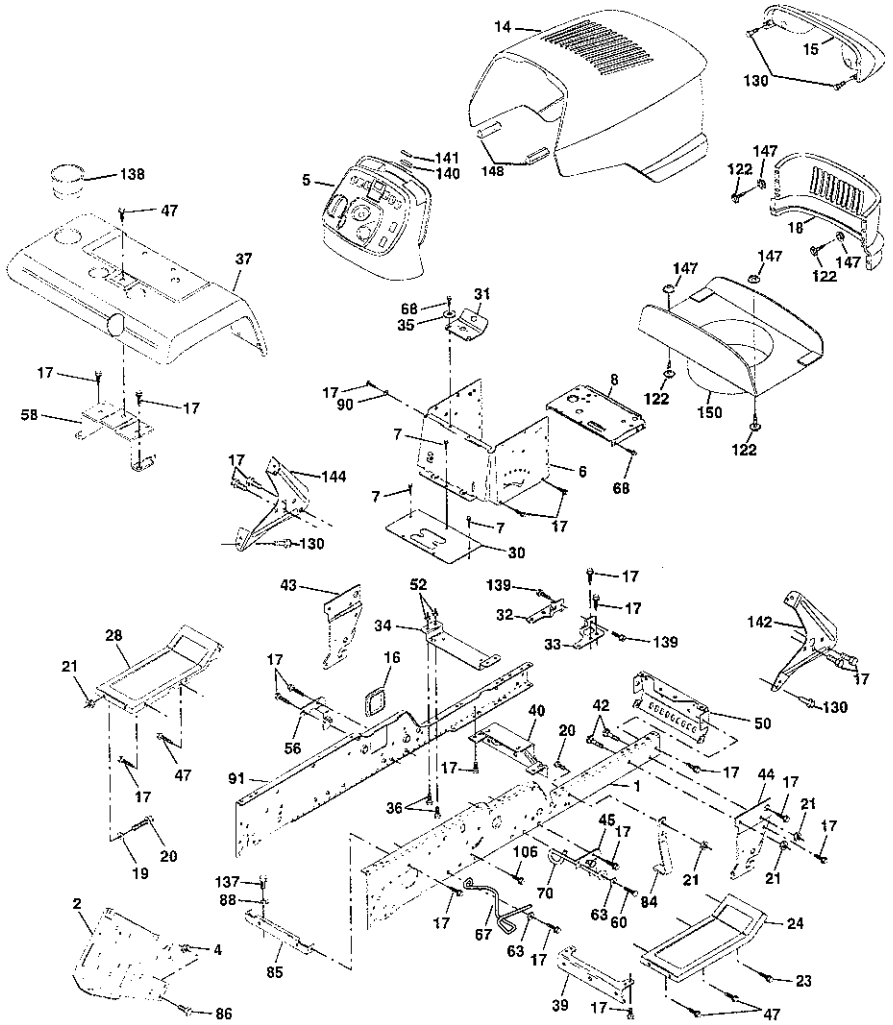
## ELECTRICAL



KEY PART NO.	PART NO.	DESCRIPTION
1	144927	Battery
2	74760412	Bolt Hex Head 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt 1/4-20 x 7.5 Zinc
11	150109	Hold down Battery Dash Mount
12	145769	Nut Push Nylon 1/4"
16	153664	Switch Interlock Push-In
21	166184	Harness Socket Light W/4152J
22	4152J	Bulb Light
24	4014J	Cable, Battery
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, Ignition
40	170238	Harness Ign.
41	17720408	Screw 1/4-20 x 1/2
42	131563	Cover, Terminal
43	145673	Solenoid
45	122822X	Ammeter
50	169416	Switch, PTO
52	141940	Protection Wire Loop
79	163996	Bulbholder Asm. Incan descent
81	109748X	Relay Asm.

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

TRACTOR -- MODEL NUMBER 917.273090  
CHASSIS AND ENCLOSURES



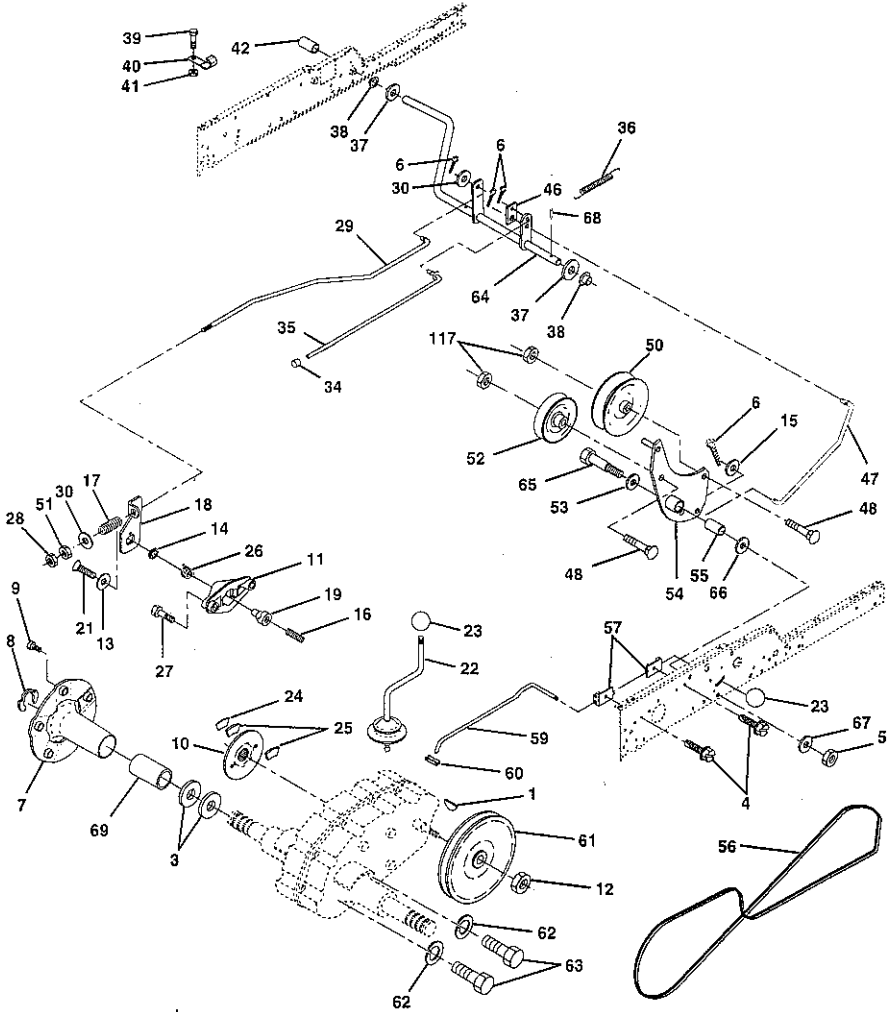
**TRACTOR -- MODEL NUMBER 917.273090**  
**CHASSIS AND ENCLOSURES**

KEY PART NO.	NO.	DESCRIPTION
1	150253	Rail, Frame RH
2	140506	Drawbar, Gt
4	73680700	Nut, Crown Lock 7/16-14 Unc
5	163976	Dash YGTG 2 Cyl
6	157882	Dash, Lower Vgt One Piece
7	17720408	Screw, Thd Cut 1/4-20 x 1/2
8	145166	Support, Battery
14	161023X558	Hood Asm., Pnt Stealth YGTG
15	160568	Lens Asm Headlight Bar
16	121794X	Cover, Access
17	17000612	Screw
18	160564X558	Grille
19	19131312	Washer 13/32x13/16x12 Ga.
20	STD523710	Bolt, Fin Hex 3/8-16 x 1
21	STD541437	Nut Lock Hex w/lins 3/8-16 Unc
23	17060616	Screw 3/8-16 x 1.5
24	145243X558	Footrest, RH
28	145244X558	Footrest, LH
30	145051X014	Saddle, Silkscr Vgl
31	161419	Brace, Supt 1-pc VGT Strng
32	161327	Bracket, Pivot Chassis Lh
33	161326	Bracket, Pivot Chassis Rh
34	142131	Bracket, Engine Support Rear
35	19111116	Washer 11/32x11/16x16 Ga.
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4
37	167286X558	Fender Pnt YGTG w/Fuel/Cph
39	136961	Bracket, Axle Front
40	156111	Bracket, Support Axle/Engine
42	72140608	Bolt, Carriage 3/8-16 x 1
43	136939	Bracket, Spnsn Front Lh
44	136940	Bracket, Spnsn Front Rh
45	154913	Bracket Asm. Susp Chas. Rh
47	17670608	Screw Thdrol. 3/8-16 x 1/2

KEY PART NO.	NO.	DESCRIPTION
50	152728	Bracket, Chassis Front
52	STD541431	Nut, Crownlock 5/16-18 Unc
56	154914	Bracket Asm. Susp Chas. Lh
58	137113	Bracket Asm., Fender
60	17490620	Screw Thdrol. 3/8-16 x 1-1/4
63	19131614	Washer 13/32 x 1 x 14 Ga.
67	156973	Guide, Belt Gear Drive
68	17490508	Screw Thdrol. 5/16-18 x 1/2
70	137159	Guide, Belt Mid Span
84	142992	Stop, Over Center Mower
85	144911	Bracket, Support Transaxle
86	74780716	Bolt Fin Hex 7/16-14 UNC x 1
88	STD551143	Washer Lock Hvy Hlcl 7/16
90	STD551237	Washer Lock Ext. Tooth 3/8
91	170755	Rail, Frame Lh
106	138776	Screw, Thdrol Hex Hd Zinc
122	161464	Screw Hex Wshd 8-18 x 7/8
130	164863	Screw Hwhd Hi-Lo #13-16x3/4
137	74780716	Bolt Fin Hex 7/16-14 x 1 Gr. 5
138	163975X428	Cupholder YGTG
139	161330	Bolt Shoulder 5/16-18 TT
140	163806	Magnet YGTG
141	163805	Striker Plate YGTG
142	161897	Bracket Dash Rh
144	161900	Bracket Dash Lh
145	19131414	Washer Flat 13/32x7/8x7 Ga.
147	162967	Fastener Nut Pal
148	164655	Extrusion Bumper
150	161237	Duct Heat Hood
151	17060512	Screw 5/16-18 x 3/4

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

TRACTOR -- MODEL NUMBER 917.273090  
GROUND DRIVE



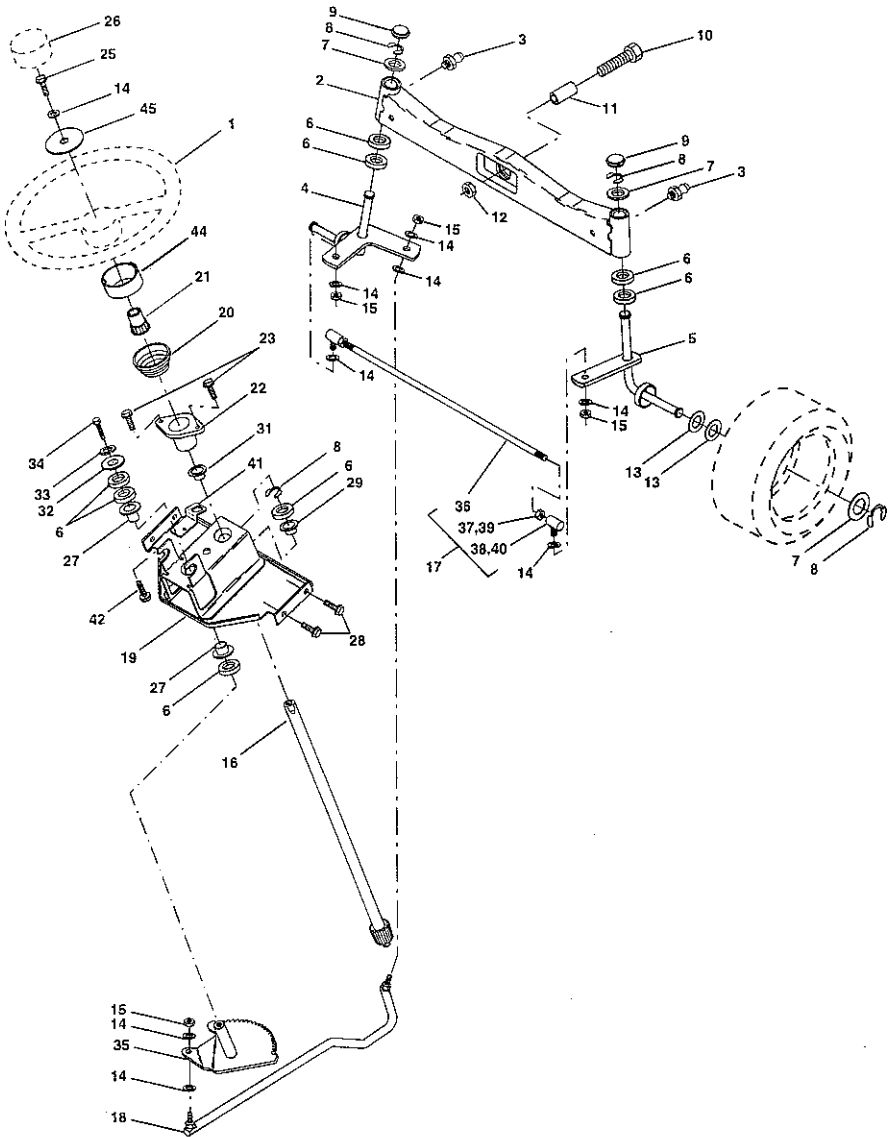
## TRACTOR -- MODEL NUMBER 917.273090

### GROUND DRIVE

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	9858M1 Key, Woodruff	38	150035 Nyliner
3	7563R Washer, Thrust, Axle	39	74321016 Screw, Fin. #10-24 x 1
4	17490508 Screw Thdrol 5/16-18 x 3/4	40	5304J Actuator, Interlock Switch
5	STD541437 Nut, Crownlock 3/8-16	41	73661000 Locknut #10-24
6	STD561210 Pin, Cotter	42	8883R Cover, Pedal
7	149176 Wheel, Hub Assembly	46	145170 Retainer, Spring
8	12000034 Klip, Ring	47	138228 Clutch Rod
9	140080 Bolt, Hub	48	72110612 Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5
10	142509 Disc, Brake	50	131494 Pulley, Idler, Flat
11	136927 Yoke, Brake Disc	51	STD541437 Nut, Lock Hex w/Ins. 3/8-16 UNC
12	73750800 Nutlock 1/2-20 Unf	52	139123 Pulley, Idler, Grooved
13	139419 Washer, Special	53	207J Washer, Hardened
14	138901 Bushing	54	161590 Clutch, Arm Assembly
15	STD551037 Washer 13/32 x13/16 x 16 Ga.	55	105706X Bearing, Idler
16	143012 Set, Screw 1/4-28 x 3/4	56	137153 V-Belt
17	126909X Spring	57	141756 Bracket, Shift Rod, Hi-Lo
18	137104 Lever, Brake	59	122253X Shift Rod, Hi-Lo
19	136926 Cam, Brake Disc	60	122268X Spring Clip, Connecting Link
21	23260412 Screw, Flat Head 1/4-28 x 3/4	61	137524 Pulley, Transaxle
22	633A109 Gearshift, Lever Assembly	62	STD551143 Washer, Lock 7/16
23	106932X Knob	63	74760720 Bolt, Fin Hex 7/16-14 x 1-1/4
24	136925 Support, Puck Brake	64	154752 Shaft, Clutch/Brake Pedal
25	136923 Puck, Brake Top	65	67609 Bolt, Shoulder
26	137552 Spring, Return	66	140296 Washer, Hardened
27	17490528 Screw, Hex Wsh Thd. 5/16-18 x 1-3/4	67	19131312 Washer, Flat
28	73350600 Nut, Hex Jam 3/8-16	68	5142H Pin, Roll
29	137213 Brake, Rod	69	136327 Hub, Cover
30	19131616 Washer 13/32 x 1 x 16 Ga.	117	73900600 Nut, Lock Flg. 3/8-16 Unc
34	71673 Cap, Plunger		
35	137648 Rod, Parking Brake		
36	149412 Spring, Drive Ground		
37	121749X Washer 25/32 x1-1/4 x 16 Ga.		

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

TRACTOR -- MODEL NUMBER 917.273090  
STEERING ASSEMBLY



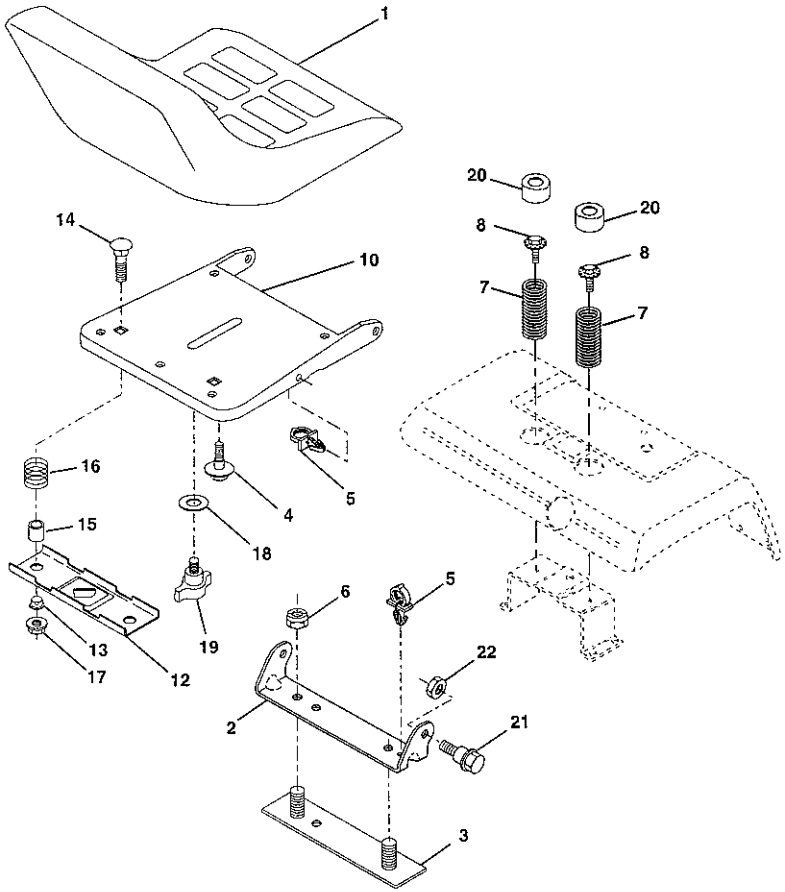


**TRACTOR -- MODEL NUMBER 917.273090**  
**STEERING ASSEMBLY**

KEY PART NO.	PART NO.	DESCRIPTION
1	159944X428	Wheel, Steering
2	137094	Axle Asm., Front
3	6855M	Fitting, Grease
4	161849	Spindle Asm, LH
5	161848	Spindle Asm., RH
6	6266H	Bearing, Race Thrust Harden
7	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
8	12000029	Ring, Klip #T5304-75
9	121232X	Cap, Spindle
10	74781044	Bolt, Fin Hex 5/8-11 x 2-3/4
11	136518	Spacer 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 Hlcl Spr 3/8
15	STD541537	Nut, Lock Center 3/8-24 UNF
16	145103	Shaft Asm., Steering
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
25	STD523710	Bolt, Fin Hex 3/8-16 x 1 Gr. 5
26	159946X428	Cap, Wheel Steering
27	3366R	Bearing, Col. Strg.
28	17000612	Screw Hex Wsh Thdrol 3/8-16
29	104239X	Bearing, Flange
30	12000034	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 Hlcl Spr 5/16
34	STD523107	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
41	155246	Bracket Switch Interlock VGT 97
42	17490508	Screw Thdrol 5/16-18 x 1/2 Tyt
44	160135	Extension, Steering
45	19132411	Washer 13/32 x 1-1/20 x 11 Ga.

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

**TRACTOR -- MODEL NUMBER 917.273090**  
**SEAT ASSEMBLY**



**KEY PART  
NO. NO.**

NO.	NO.	DESCRIPTION
1	140124	Seat
2	140551	Bracket, Pivot Seat
3	140875	Strap, Fender
4	127018X	Bolt, Shoulder 5/16-18 x .62
5	145006	Clip, Push In, Hinged
6	STD541437	Nut, Crownlock 3/8-16 Unc
7	124181X	Spring, Seat Cprsn
8	171877	Bolt 5/16-18 Uncx3/4 w/Sems
10	155925	Pan, Seat
12	121246X	Bracket, Mounting Switch
13	121248X	Bushing, Snap
14	72050412	Bolt, Carriage 1/4-20 X 1-1/2

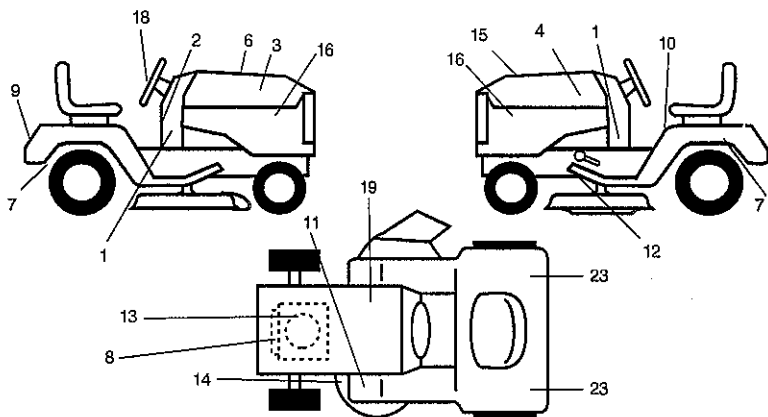
**KEY PART  
NO. NO.**

NO.	NO.	DESCRIPTION
15	121249X	Spacer, Split
16	123740X	Spring, Cprsn
17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
18	19171912	Washer 17/32x1-3/16x12 Ga.
19	166369	Knob, Seat
20	124238X	Cap, Spring Seat
21	171852	Bolt, Shoulder 5/16-18 Unc2A
22	STD541431	Nut, Crownlock 5/16-18 Unc

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

## TRACTOR -- MODEL NUMBER 917.273090

### DECALS



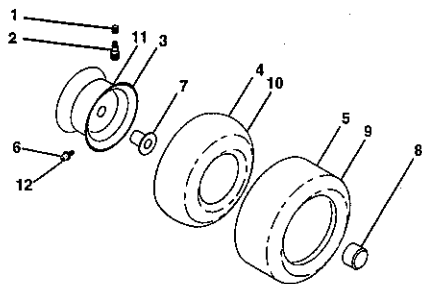
#### KEY PART NO. NO.

KEY PART NO.	DESCRIPTION
1	163266 Decal, Dash Panel
2	164085 Decal, Dash
3	171702 Decal, Hood, RH
4	171703 Decal, Hood, LH
6	133644 Decal, Maintenance
7	167166 Decal, Fender
8	171860 Decal, Engine
9	163204 Decal, Fender, Craftsman
10	156439 Decal, Fender Danger
11	4900J Decal, Clutch/Brake
12	146047 Decal, V-Belt Drive Schematic
13	164884 Decal, Blower Housing

#### KEY PART NO. NO.

KEY PART NO.	DESCRIPTION
14	160397 Decal, V-Belt Schematic
15	171813 Decal, Repl Parts
16	171705 Decal, Side Panel
18	164065 Decal, Insert Strg
19	138047 Decal, Battery
23	106202X Reflector, Taillight
--	138311 Decal, Handle L.ft Helght Adjust (Lift Handle)
--	157199X428 Pad, Footrest
--	171690 Manual, Owner's (Eng)
--	171691 Manual, Owner's (Span)

### WHEELS & TIRES



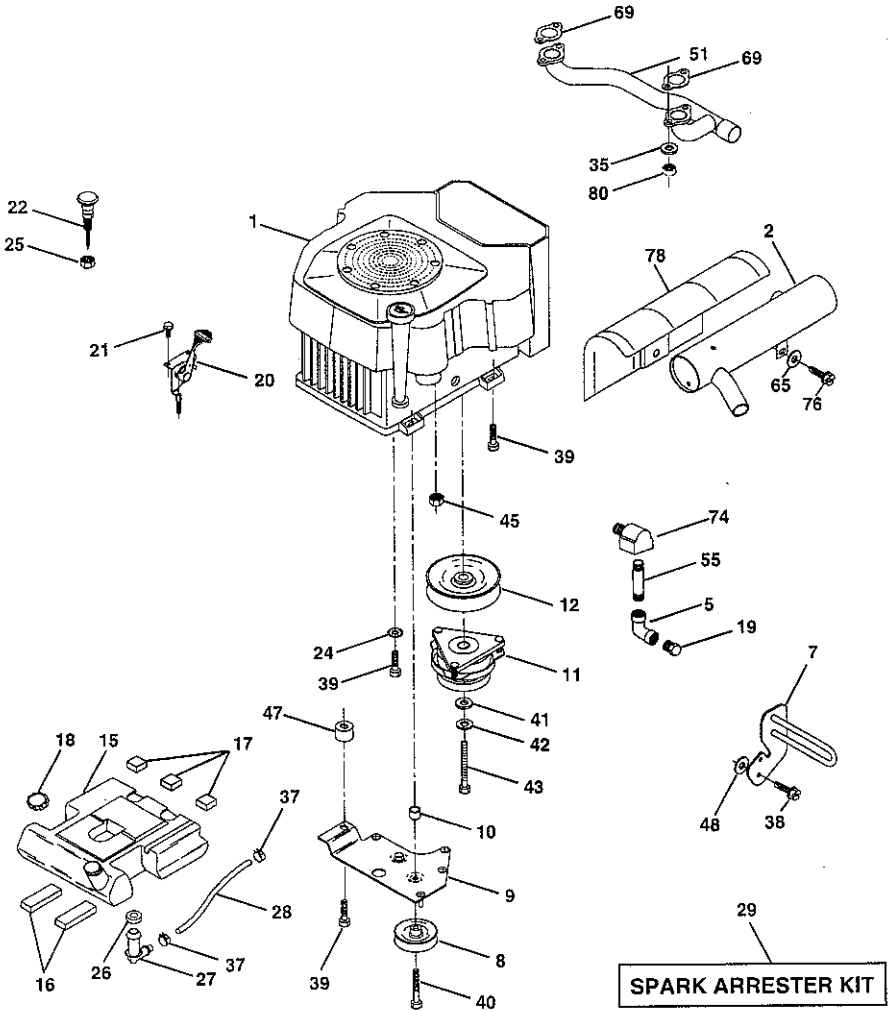
#### KEY PART NO. NO.

KEY PART NO.	DESCRIPTION
1	59192 Cap, Valve, Tire
2	65139 Stem, Valve
3	106228X427 Rim Assembly, Front
4	8134H Tube, Front (Service Item Only)
5	106230X Tire, Front
6	278H Fitting, Grease (Front Wheel Only)
7	9040H Bearing, Flange (Front Wheel Only)
8	104757X Cap, Axle (Front Wheel Only)
9	105588X Tire, Rear
10	7154J Tube, Rear (Service Item Only)
11	106277X427 Rim Assembly, Rear
12	6856M Fitting, Grease
--	144334 Sealant, Tire (10 oz. Tube)

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

TRACTOR -- MODEL NUMBER 917.273090

ENGINE



ENGINE

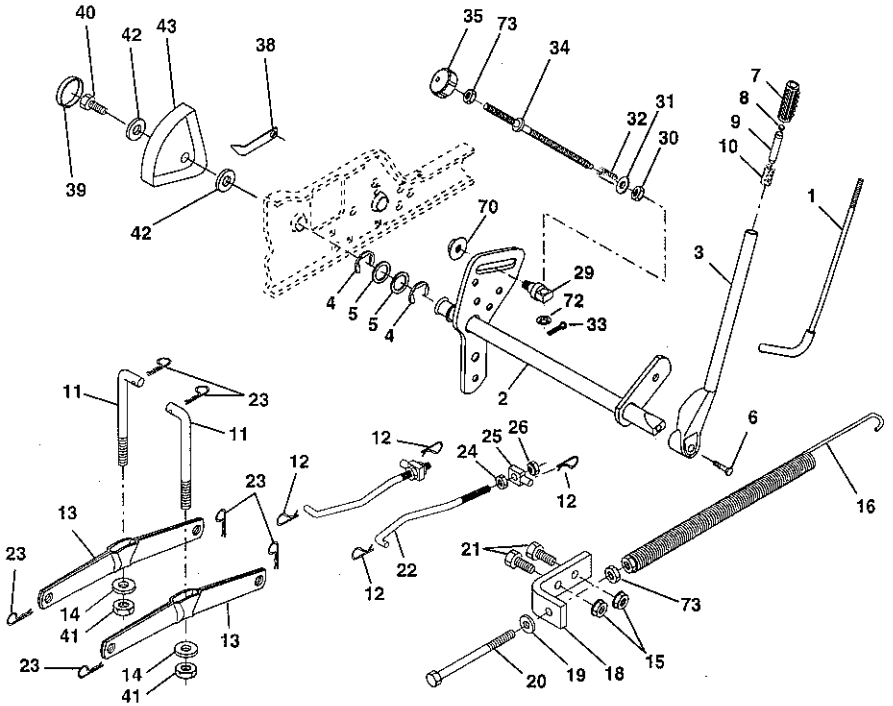
TRACTOR -- MODEL NUMBER 917.273090

KEY PART NO.	PART NO.	DESCRIPTION
1	-----	Engine (See Breakdown) Kohler Model No. CV22S-75534
2	161063	Muffler Side
5	13200300	Elbow STD 90 Degree 3/8 - 18 NPT
7	151396	Muffler Asm Guard
8	121381X	Pulley V-Idler
9	150828	Keeper Asm. Belt Engine
10	105432X	Bushing
11	140923	Clutch Electric
12	143996	Pulley Engine VGT Elect Clutch
15	151346	Tank Fuel Rear 3.50 Yt/Gt 96
16	109227X	Pad Spacer
17	106082X	Pad Spacer
18	161493	Cap Asm Fuel W/Gauge
19	13290300	Plug Oil Drain (Order From Engine Manufacturer)
20	164067	Control Throttle
21	164863	Screw hwhd Hi-Lo #13-16x3/4
22	164415	Control Choke
24	STD551237	Washer Ext Tooth 3/8
25	73920600	Nut Keps 3/8 - 24 UNF
26	3645J	Bushing
27	139277	Stem Tank Fuel
28	7834R	Fuel Line
29	132920	Spark Arrester Kit
35	10010500	Washer Split
37	123487X	Clamp Hose
38	17060620	Screw 3/8-16 x 1-1/4
39	17490636	Screw TT 3/8-16 x 2-1/4 UNC
40	17490664	Screw TT 3/8-16 x 4 UNC
41	126197X	Washer 1-1/2 OD x15/32 ID x .250
42	STD551143	Washer Lock 7/16
43	150280	Bolt Hex 7/16 - 20 X 4 - 1/4 Ga 5
45	73510400	Nut Keps Hex 1/4-20 Unc
47	142040	Spacer Engine
48	19132007	Washer 13/32 x 1-1/4 x 7 Ga.
51	161231	Manifold Pipe VGT
55	13280336	Nipple Pipe 4-1/2
65	19131614	Washer 13/32 x 1 x 14 Ga.
69	24-041-02	Gasket
74	162295	Elbow Street Brass
76	17000612	Screw Hex Wsh Thdrol 3/8-16
78	164323	Shield Muffler Stealth CV VGT
80	M73030600	Nut Flange

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

LIFT ASSEMBLY

TRACTOR -- MODEL NUMBER 917.273090



## LIFT ASSEMBLY

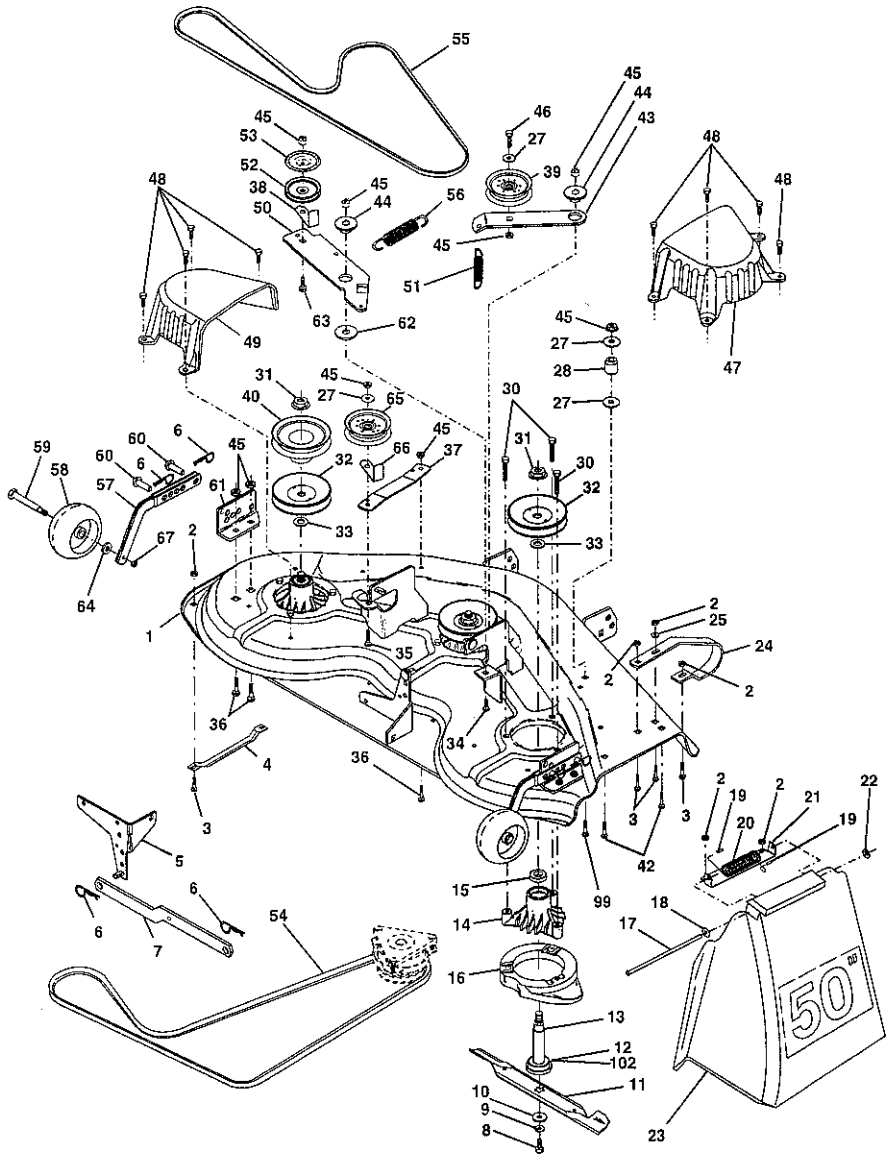
## TRACTOR -- MODEL NUMBER 917.273090

KEY NO.	PART NO.	DESCRIPTION
1	121006X	Rod Asm., Lever
2	159187	Shaft Asm., Lift Vgt
3	159189	Lever Asm., Lift Rh
4	12000022	E-Ring Truarc #5133-87
5	19292016	Washer 29/32 x 1-1/4 x 16 Ga.
6	71110624	Bolt, Fin Hex 3/8-16 x 1-1/2
7	125631X	Grip, Handle Fluted
8	122365X	Button, Plunger
9	122364X	Plunger, Button
10	2876H	Spring 2-1/8"
11	146704	Link Lift
12	163552	Retainer, Spring
13	139868	Arm, Suspension Vgt
14	140302	Bearing
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
23	STD624008	Retainer, Spring
24	73350800	Nut, Jam Hex 1/2-13 Unc
25	130171	Trunnion
26	73680800	Nut, Crownlock 1/2-13 Unc
29	150233	Trunnion, Infin 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, Adj Lift
35	138057	Knob, Inf 3/8-16 Unc
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 Hex Flange Lock
72	110452X	Nut Push Phos & Oil

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

MOWER DECK

TRACTOR -- MODEL NUMBER 917.273090





# TRACTOR -- MODEL NUMBER 917.273090

## MOWER DECK

### KEY PART

NO.	NO.	DESCRIPTION
1	156990	Mower Deck Weldment 50
2	STD541431	Nut, Crownlock 5/16-18
3	72110506	Bolt, Carriage 5/16-18 x 3/4
4	7631J	Runner, Mower LH
5	138457	Bracket Asm., Sway Bar
6	STD624008	Retainer, Spring
7	130832	Arm Suspension, Rear
8	850857	Bolt 3/8-24 x 1.25 Gr. 8 Patched
9	STD551137	Washer, Lock Hvy 3/8 Unplated
10	140296	Washer, Hard Blade Mower Vented
11	137380	Blade (3 Required)
12	129895	Bearing, Ball #6204 (Mandrel)
13	137553	Shaft Asm., W/Lower Brg (Includes Key No. 12)
14	137152	Housing, Mandrel 50" Vent
15	110485X	Bearing, Ball Mandrel
16	140329	Stripper, Mower Vented
17	106735X	Rod, Hinge
18	19111016	Washer 11/32 x 5/8 x 16 Ga.
19	105304X	Cap, Sleeve
20	123713X	Spring, Torsion Deflector
21	137607	Bracket, Deflector
22	110452X	Nut, Push
23	110509X	Shield, Deflector Mower
24	136320	Runner, RH
25	19111216	Washer 11/32 x 3/4 x 16 Ga.
27	STD551037	Washer 13/32x13/16x16 Ga.
28	132823	Spacer, Spring Stop Idler
30	157722	Screw Thdrol Washer Hd
31	137266	Nut, Flg Top Lock Cntr 9/16
32	153535	Pulley, Mandrel
33	129963	Washer, Spacer Mower Vented
34	72140610	Bolt, Carriage 3/8-16 x 1-1/4
35	72110616	Bolt, Carriage 3/8-16 x 2
36	72110608	Bolt, Carriage 3/8-16x1 Gr. 5
37	137166	Stiffener, Arm Idler
38	156085	Keeper, Belt Idler

### KEY PART

NO.	NO.	DESCRIPTION
39	131494	Pulley, Idler Flat
40	136572	Pulley, Driven
42	STD533107	Bolt, Carr. 5/16-18Uncx3/4
43	136460	Arm, Idler Secondary
44	165723	Spacer, Retainer
45	STD541437	Nut, Crownlock 3/8-16 Unc
46	74760628	Bolt, Fin Hex 3/8-16Uncx1-3/4
47	137200	Cover, Mandrel RH
48	137729	Screw, Thd Roll 1/4-20 x 5/8
49	136574	Cover, Mandrel LH
50	137272	Arm, Idler Primary
51	137273	Spring, Secondary
52	139245	Pulley, Idler V Groove
53	137789	Shield, Idler
54	139573	V-Belt, Mower Primary
55	144959	V-Belt, Mower Secondary
56	138687	Spring, Primary
57	136577	Bar Asm., Wheel Gauge
58	133957	Wheel, Gauge
59	137644	Bolt, Shoulder
60	139031	Pin, Clevis
61	136573	Bracket, Wheel Gauge
62	133943	Washer Hardened
63	72110612	Bolt Carriage 3/8-16 x 1-1/2
64	19121414	Washer 3/8 x 3/4 x 14 Ga
65	151831	Pulley Idler Flat Mower
66	156009	Keeper, Belt Idler 44/50"
67	73930600	Nut, Centerlock 3/8-16
99	72110614	Bolt, Carr. 3/8-16x1-3/4Gr. 5
102	153390	Washer, Felt
143651		Mandrel Assembly (Includes Key Nos. 8-10, 12-15, 31 and 33)
--	158330	Deck Assembly - Service (Std. Deck - Order Separately All Nose Roller and Gauge Wheel Components)

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



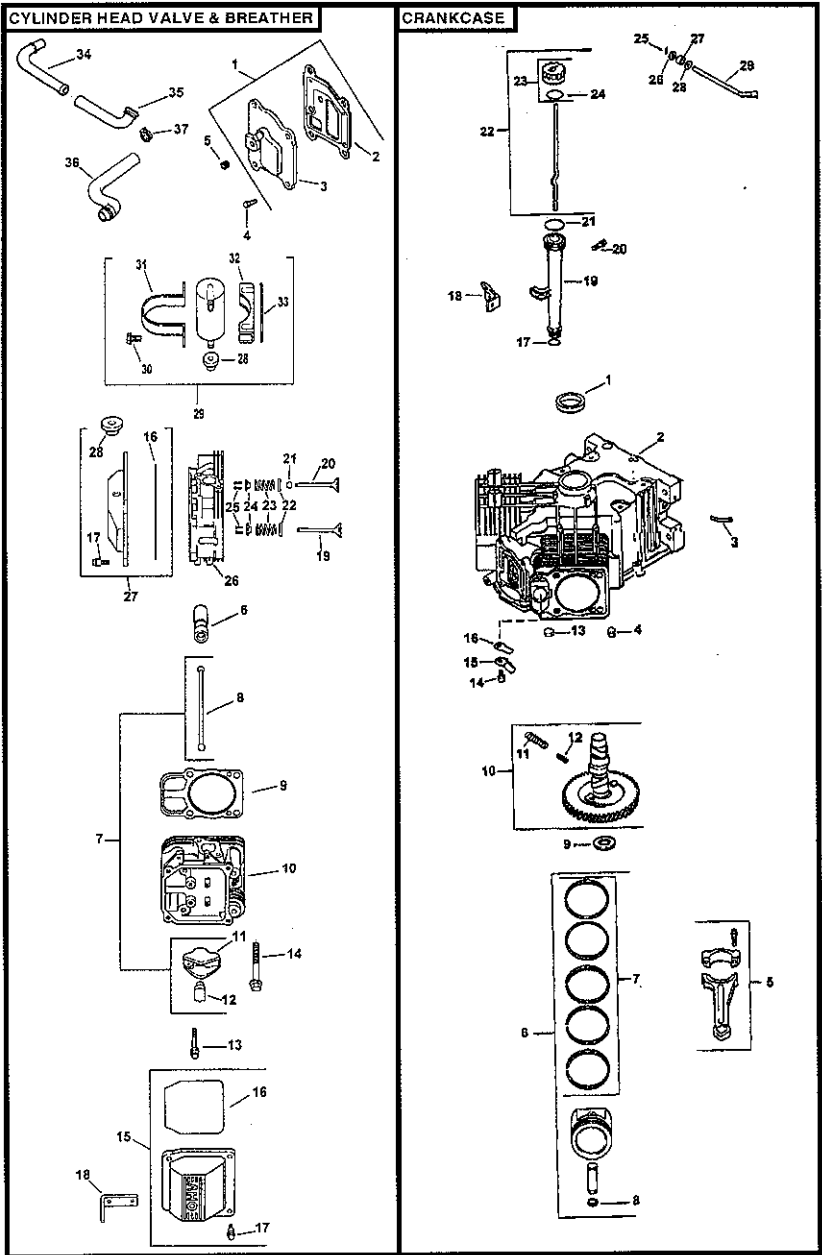
# TRACTOR -- MODEL NUMBER 917.273090

## TRANSAXLE

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
1	4197R	Axle Shaft	52	8119M	Needle Bearing
2	12000034	Retaining Ring	53	4220R	Thrust Bearing Race
3	4199R	Final Drive Gear	54	4209R	3rd Reduction Pinion, Low
4	4216R	Differential Gear	55	4213R	4th Reduction Gear
5	4215R	Differential Pinion	56	4442R	3rd Reduction Pinion Spacer
6	4217R	Differential Carrier	57	4195F	2nd Reduction Gear Shaft
7	6256H	Axle Thrust Washer	58	4214R	Final Drive Pinion
8	74020652	Bolt, Hex Head 3/8-24 x 3-1/4 (1" Thread Length)	59	4194R	1st Reduction Gear Shaft
9	7392M	Steel Ball	60	7528R	1st Reduction Shaft Spacer
10	137261	Spring Shift Fork Detent	61	4208R	3rd Reduction Pinion High
11	4985R	Shift Fork, High-Low Range	62	4207R	2nd Reduction Gear
12	6266H	Thrust Bearing Race	63	7398H	Needle Bearing
13	4212R	4th Reduction Pinion	64	4203R	Low Speed Gear and 2nd Reduction Pinion Cluster
14	137125	Shaft, Brake	65	4204R	Reverse Gear
15	6276H	Snap Ring, Crescent Type	66	2898J	Key, Hi-Pro 1/8 x 17/32
16	633A63	High-Low Range Gears	67	12000033	Klip Ring
17	8118M	Needle Bearing	68	4205R	Intermediate Speed Gear
18	8740H1	Sintered Iron Bearing	69	4206R	High Speed Gear
19	122238X	Shift Fork Shaft, High-Low Range	70	1370H	Thrust Bearing Race
20	4218R	Differential Pinion Spacer	71	633A69	Intermediate and High Speed Cluster Pinions
21	6252H1	Differential Pinion Bushing	72	139120	Input Shaft
22	7810H	Gripco Centerlock Nut 3/8-24	73	4201R	Low Speed Pinion
23	6262H	Shift Fork, R.H.	74	12000008	E-Ring
24	7393R	Oil Seal	75	1153R	Reverse Idler Gear
25	992R1	Sintered Iron Bearing	77	6803J	Needle Bearing
26	139111	Shift Fork Shaft	79	1167R	Sealing Washer
27	4986R	Shift Fork, L.H.	80	73360700	Nut, Hex, Jam 7/16-20
28	122254X	Shift Shaft, High-Low Range	81	6270H	Oil Seal
29	6269H	Oil Seal	82	136984	Reverse Idler Shaft
30	5855H	Pressure Relief Valve	84	5384J	Gearshift Lever, Bent
31	139538	Gearcase, Reverse Idler Shaft and Bearings, R.H. (Includes Key No.'s 17, 18, 25, 33, 50, 63, 77 and 82)	85	2978J	Gearshift Cap
32	6277H	Dowel Pin	86	633A65	Gearshift Ball Cover and Pin
33	4225R	Needle Bearing	87	8739H1	Shift Lever Guide Ball, Keyed
34	7396H	Thrust Bearing Race	88	4924H	Spring
35	4198R	4th Reduction Gear Shaft	89	19151516	Washer 15/32 x 15/16 x 1 Ga.
36	4200R	4th Reduction Gear Spacer	90	110542X	Shift Mechanism Seal
37	7395H	Thrust Bearing Race	91	19181511	Washer 9/16 x 15/16 x 12 Ga.
38	160789	Gate, Lower, Shift	92	75J	Gearshift Gate and Reinforcement
39	139536	Gearcase and Bearings, L.H. (Includes Key Numbers 18, 25, 49, 50 (2), 51 and 52)	93	6274H	Shift Ball Cover Gasket
40	13320400	Pipe Plug 1/2-14 N.P.T.	94	76020412	Cotter Pin 1/8 x 3/4
41	17580520	Bolt, Hex 5/16-18 UNC x 1-1/4	96	159783	Screw, Hex, Washer, HD.
45	6271H	Oil Seal	97	633A109	Gearshift Lever Assembly
46	13060200	Pipe Plug 1/4-18 N.P.T.	98	161823	Transaxle, 6 Speed, Complete Assembly
49	4895H	Needle Bearing			
50	4222R	Needle Bearing			
51	1529R	Needle Bearing			

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

TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534



**TRACTOR -- MODEL NUMBER 917.273090**  
**KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

**HEAD/VALVE/BREATHER**

KEY PART NO.	NO.	DESCRIPTION
1.	24-033-03-S	Kit, breather cover w/gasket (Includes 2,3)
2.	24-041-23-S	Gasket, breather
3.	24-096-59-S	Cover, breather
4.	M-645020-S	Screw, hex flange M6x1.0x20 (4)
5.	X-75-23-S	Plug, allen hd. 1/8"
6.	25-351-01-S	Lifter, valve (4)
7.	24-755-66-S	Kit, valve train (Includes 8,11,12)
8.	24-411-05-S	Rod, push (4)
9.	24-041-40-S	Gasket, cylinder head (2)
10.	24-318-12-S	Head assembly, #2 cylinder
11.	25-186-01-S	Arm, rocker (4)
12.	24-599-01-S	Pivot, rocker arm (4)
13.	M-640034-S	Screw, hex flange M6x1.0x34 (4)
14.	24-086-44-S	Screw, hex. flange M10x1.5x90 (8)
15.	24-755-74-S	Kit, valve cover - plain (Includes 16,17)
16.	24-153-16-S	O-Ring
17.	24-086-32-S	Screw, shoulder (4)
18.	24-445-01-S	Strap, lifting
19.	24-016-01-S	Valve, exhaust (Std.) (2)
	24-016-02-S	Valve, exhaust (.25) (2)
20.	24-017-01-S	Valve, intake (Std.) (2)
	24-017-02-S	Valve, intake (.25) (2)
21.	24-032-05-S	Seal, valve stem (2)
22.	235011-S	Retainer, spring (4)
23.	24-089-02-S	Spring, valve (4)
24.	12-173-01-S	Cap, valve spring (4)
25.	12-755-03-S	Kit, retainer (4)
26.	24-318-11-S	Head assembly, #1 cylinder
27.	24-755-76-S	Kit, valve cover - breather (Incl.16,17,28)
28.	25-313-02-S	Grommet, rubber
29.	24-755-57-S	Kit, breather separator (Includes 28,30-33)
30.	M-645016-S	Screw, hex flange M5x0.8x16 (2)
31.	24-445-02-S	Strap, breather
32.	24-126-44-S	Bracket, breather separator
33.	24-112-12-S	Spacer
34.	24-294-06-S	Fitting
35.	24-326-13-S	Hose, breather
36.	24-326-14-S	Hose, breather
37.	X-426-9-S	Clamp, hose (2)

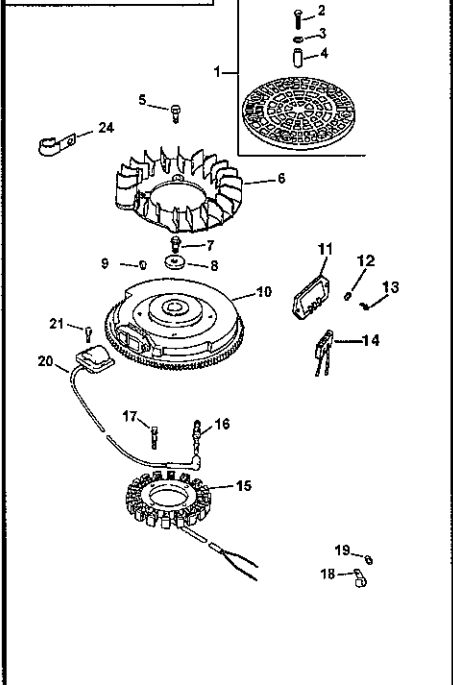
**CRANKCASE**

KEY PART NO.	NO.	DESCRIPTION
1.	24-032-01-S	Seal, oil front
2.		Crankcase (USE: Miniblock)
3.	24-294-13-S	Fitting
4.	12-380-17-S	Pin, dowel locating (6)
5.	24-067-13-S	Connecting Rod (Std.) (2)
	24-067-14-S	Connecting Rod (.25) (2)
6.	24-874-09-S	Piston w/Ring Set (Std.) (2) (Includes 7,8)
	24-874-10-S	Piston w/Ring Set (.25) (2)
	24-874-11-S	Piston w/Ring Set (.50) (2)
	24-874-15-S	Kit, piston w/ring set (.08)
7.	24-108-08-S	Ring Set (Std.) (2)
	24-108-09-S	Ring Set (.25) (2)
	24-108-10-S	Ring Set (.50) (2)
8.	24-018-01-S	Retainer, piston pin (4)
9.	12-422-09-S	Shim, camshaft (A.R.)
	12-422-13-S	Shim, camshaft (A.R.)
	12-422-07-S	Shim, camshaft (A.R.)
	12-422-08-S	Shlm, camshaft (A.R.)
	12-422-10-S	Shlm, camshaft
	12-422-11-S	Shim, camshaft (A.R.)
	12-422-12-S	Shim, camshaft (A.R.)
10.	24-010-06-S	Camshaft (Includes 11,12)
11.	24-089-35-S	Spring, ACR (Heavy)
12.	24-089-34-S	Spring, ACR (Light)
13.	52-139-09-S	Plug, cup
14.	M-0545010-S	Screw, hex flange M5x0.8x10 (2)
15.	24-018-04-S	Retainer, reed (2)
16.	24-402-05-S	Reed, breather (2)
17.	12-153-01-S	O-Ring, lower oil fill tube
18.	24-126-19-S	Bracket, oil fill tube
19.	12-123-04-S	Tube, oil fill
20.	M-545016-S	Screw, hex. flange M5x0.8x16
21.	12-153-02-S	O-Ring, upper oil fill tube
22.	24-038-04-S	Dipstick assembly (Includes 23,24)
23.	24-755-46-S	Kit, oil fill cap (Includes 24)
24.	12-153-03-S	O-Ring, dipstick
25.	12-380-04-S	Pin, hitch
26.	M-631005-S	Washer, plain 6 mm
27.	12-032-01-S	Seal, governor cross shaft
28.	X-25-102-S	Washer, plain 1/4"
29.	24-144-01-S	Shaft, governor cross

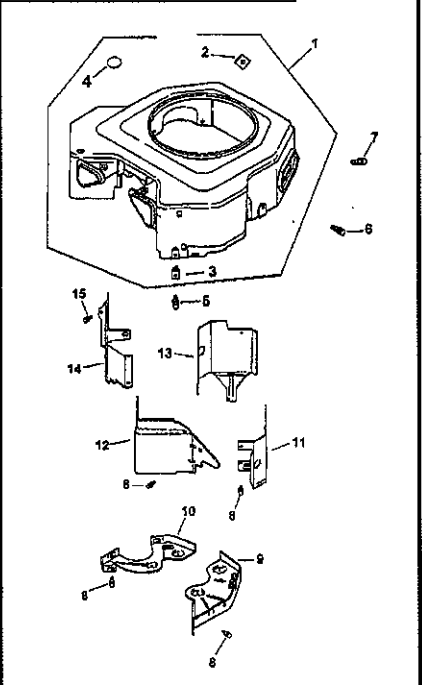
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

**TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

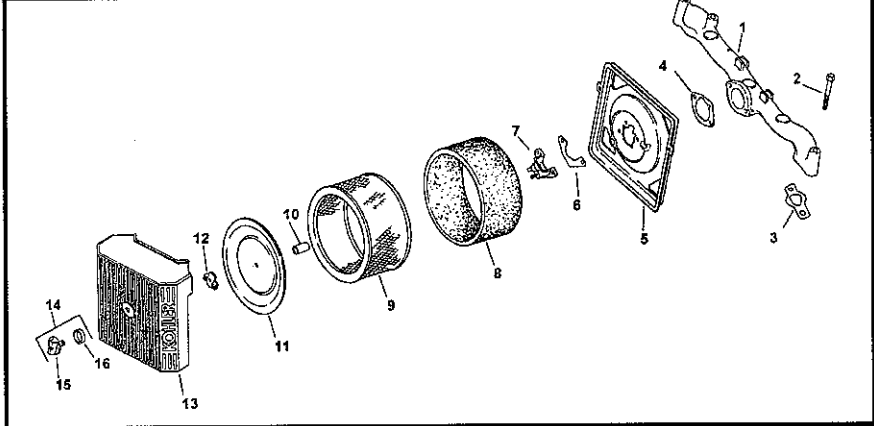
**IGNITION / ELECTRICAL**



**BLOWER HOUSING AND BAFFLES**



**AIR INTAKE**



**TRACTOR -- MODEL NUMBER 917.273090**  
**KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

**IGNITION/CHARGING**

**KEY PART**

NO.	NO.	DESCRIPTION
1.	54-755-15-S	Kit, grass screen (Includes 2-4, and 24 113 18)
2.	M-403025-S	Screw, hex. cap M4x0.7x25 (4)
3.	X-25-92-S	Washer, plain 5/16" (4)
4.	24-112-04-S	Spacer, grass screen (4)
5.	25-086-47-S	Bolt, shoulder (4)
6.	24-157-03-S	Fan
7.	12-086-14-S	Screw, hex. flange M10x1.5x46
8.	12-468-03-S	Washer, plain 3/8".
9.	X-42-15-S	Key
10.	24-025-04-S	Flywheel
11.	25-403-03-S	Rectifier-regulator
12.	X-25-92-S	Washer, plain 3/16" (2)
13.	24-086-18-S	Screw, phillips hd. 11-16x7/8 (2)
14.	236602-S	Connector (3 contact)
15.	54-755-09-S	Kit, 15 amp stator (Includes 24 126 71)
16.	12-132-06-S	Spark Plug (2)
17.	M-548025-S	Screw, hex. cap M5x0.8x25 (2)
18.	48-154-02-S	Clip, cable
19.	X-25-63-S	Washer, plain 1/4"
20.	24-584-01-S	Module, ignition (2)
21.	M-545020-S	Screw, hex flange M5x0.8x20 (4)
24.	2-351-73-S	Clip, cable

**NOT ILLUSTRATED**

24-126-71-S	Bracket, stator wire
X-22-11-S	Washer, lock 1/4"
24-176-79-S	Harness, wiring Lead, black (rect.-reg. 5" - 12 gauge)
25-518-28-S	insulated grip barrel eyelets)
24-113-18-S	Decal, grass screen
12-454-03-S	Tie, wire

**BLOWER HOUSING & BAFFLES**

**KEY PART**

NO.	NO.	DESCRIPTION
1.	24-027-20-S	Housing, blower (Includes 2-4) (Incl. M-0545010 & 24 063 36)
2.	24-100-01-S	Nut, plastic (3)
3.	24-100-02-S	Nut, plastic (2)
4.	25-139-16-S	Plug, button 9/16"
5.	M-545020-S	Screw, hex flange M5x0.8x20 (4)
6.	M-0545016-S	Screw, hex flange M5x0.8x16 (3)
7.	M-0551016-S	Screw, hex. flange M5x0.8x16
8.	M-0645016-S	Screw, hex flange M6x1.0x16 (6)
9.	24-146-16-S	Plate, backing - # 2 side
10.	24-146-20-S	Plate, backing - # 1 side
11.	24-063-20-S	Baffle, cylinder barrel-# 2 side
12.	24-063-14-S	Baffle, valley - #2 side
13.	24-063-30-S	Baffle, cylinder barrel-# 1 side
14.	24-063-23-S	Baffle, valley - #1 side
15.	M-545010-S	Screw, hex flange M5x0.8x10 (2)

**NOT ILLUSTRATED**

24-096-66-S	Cover, control
24-086-06-S	Screw, phillips hd. 11-16x3/4" (2)

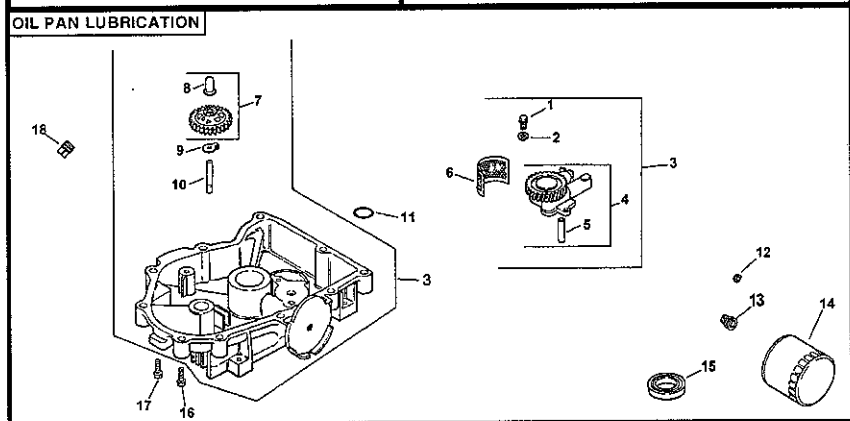
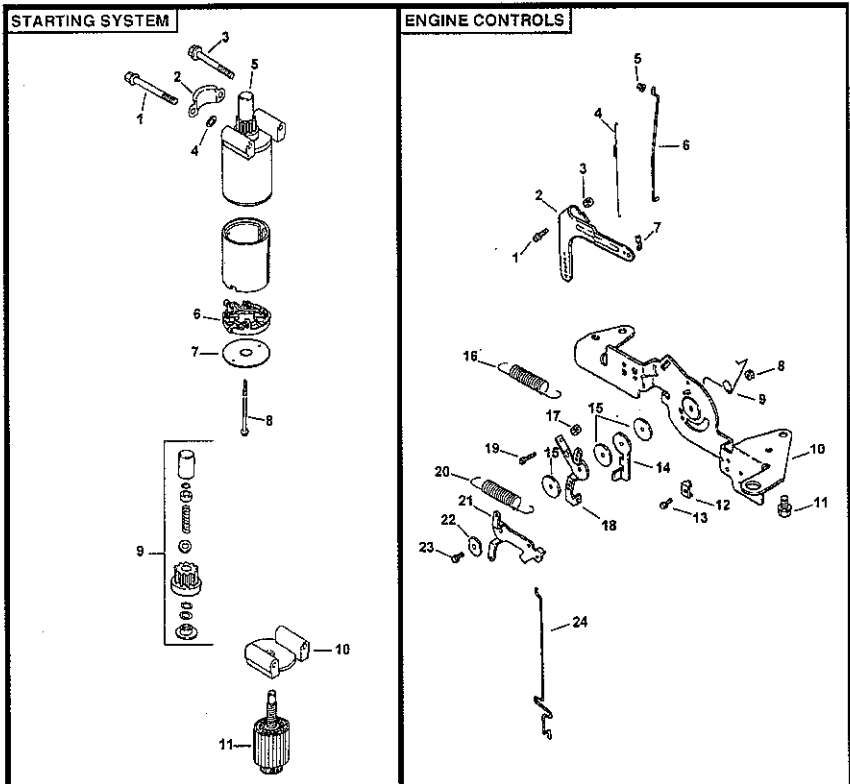
**AIR INTAKE/FILTRATION**

**KEY PART**

NO.	NO.	DESCRIPTION
1.	24-164-06-S	Manifold, intake
2.	M-651055-S	Screw, hex flange M6x1.0x55 (4)
3.	24-041-01-S	Gasket, intake manifold (2)
4.	24-041-14-S	Gasket, air cleaner base
5.	24-094-18-S	Base, air cleaner
6.	24-041-13-S	Gasket, fuel spitback cup
7.	24-109-09-S	Cup, fuel spitback
8.	24-083-05-S	Precleaner, element
9.	24-083-03-S	Element, air cleaner
10.	231032-S	Seal, breather
11.	24-086-01-S	Cover, inner air cleaner
12.	12-100-01-S	Wing Nut
13.	24-086-73-S	Cover, air cleaner
14.	54-755-01-S	Kit, knob with seal (Includes 15 & 16)
15.	25-341-03-S	Knob, cover
16.	24-153-15-S	O-Ring

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

TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534





**TRACTOR -- MODEL NUMBER 917.273090**  
**KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

**STARTING SYSTEM**

KEY PART NO. NO.	DESCRIPTION
1.	M-839070-S Screw, hex. flange M8x1.25x70
2.	24-096-05-S Cover, pinion
3.	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**

KEY PART NO. NO.	DESCRIPTION
1.	M-642025-S Screw, hex. flange M6x1.0x25
2.	24-090-14-S Lever, governor
3.	M-641060-S Nut, hex. flange M6x1.0
4.	24-089-01-S Spring, linkage
5.	25-158-08-S Bushing, linkage retaining
6.	24-079-04-S Linkage, throttle
7.	25-158-11-S Bushing, throttle linkage
8.	M-547050-S Nut, hex. lock M5x0.8
9.	24-089-03-S Spring, choke return
10.	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, throttle actuator
15.	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
21.	24-090-05-S Lever, choke
22.	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 ILLUSTRATED**

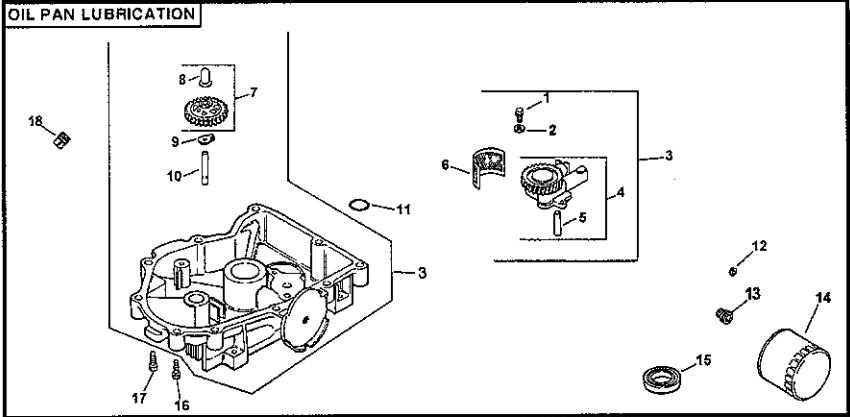
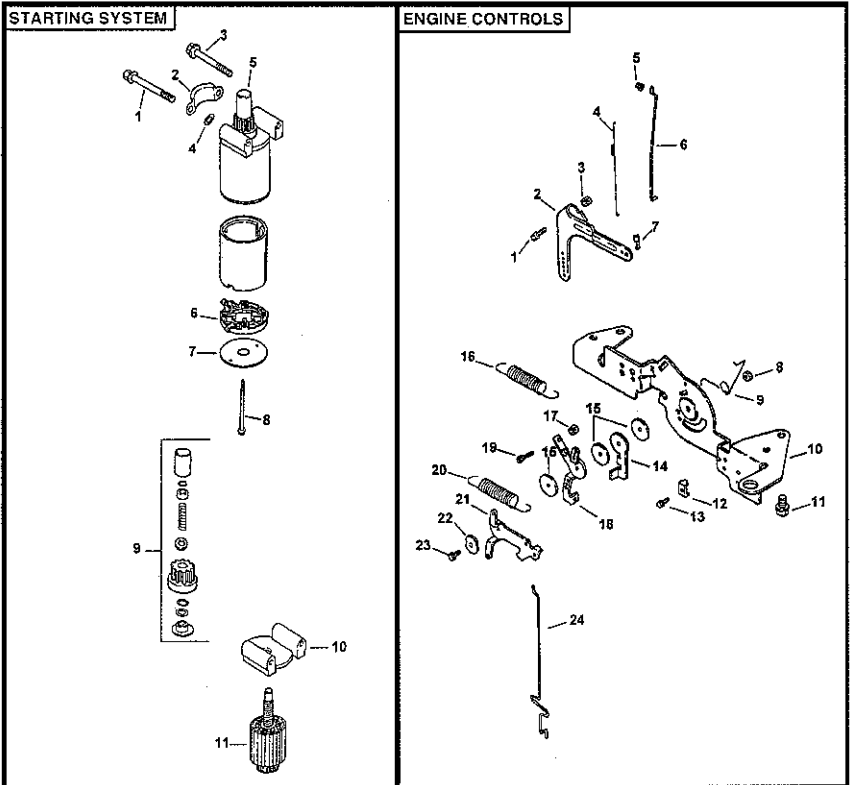
M-545016-S Screw, hex. flange M5X0.8X16  
 (Goes into 24-126-56 as a positive throttle stop)

**OIL PAN/LUBRICATION**

KEY PART NO. NO.	DESCRIPTION
1.	M-645025-S Screw, hex. flange M6x1.0x25 (2)
2.	M-631005-S Washer, plain 6 mm (2)
3.	24-199-07-S Pan, oil assembly (Includes 1,2,&4-10)
4.	24-393-08-S Oil pump assembly (Includes 5)
5.	24-123-05-S Tube, oil pickup
6.	24-162-26-S Screen, oil
7.	24-043-12-S Kit, governor gear w/pin (Includes 8)
8.	12-380-01-S Pin, governor regulating
9.	52-448-02-S Tab, locking
10.	12-144-02-S Shaft, governor gear
11.	24-153-08-S O-Ring
12.	X-75-32-S Plug, hex. ctstk. 3/8"
13.	24-136-01-S Nipple, oil filter
14.	52-050-02-S Filter, oil
15.	52-032-08-S Seal, oil (PTO end)
16.	24-086-17-S Screw, hex. flange M8x1.25x45
17.	24-086-16-S Screw, hex. flange M8x1.25x45 (9)
18.	X-75-10-S Plug, sq. hd. solid 3/8" N.P.T.F.

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

TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534



**TRACTOR -- MODEL NUMBER 917.273090**  
**KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

**STARTING SYSTEM**

KEY PART NO. NO.	DESCRIPTION
1.	M-839070-S Screw, hex. flange M8x1.25x70
2.	24-096-05-S Cover, pinion
3.	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**

KEY PART NO. NO.	DESCRIPTION
1.	M-642025-S Screw, hex. flange M6x1.0x25
2.	24-090-14-S Lever, governor
3.	M-641060-S Nut, hex. flange M6x1.0
4.	24-089-01-S Spring, linkage
5.	25-158-08-S Bushing, linkage retaining
6.	24-079-04-S Linkage, throttle
7.	25-158-11-S Bushing, throttle linkage
8.	M-547050-S Nut, hex. lock M5x0.8
9.	24-089-03-S Spring, choke return
10.	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, throttle actuator
15.	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
21.	24-090-05-S Lever, choke
22.	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 ILLUSTRATED**

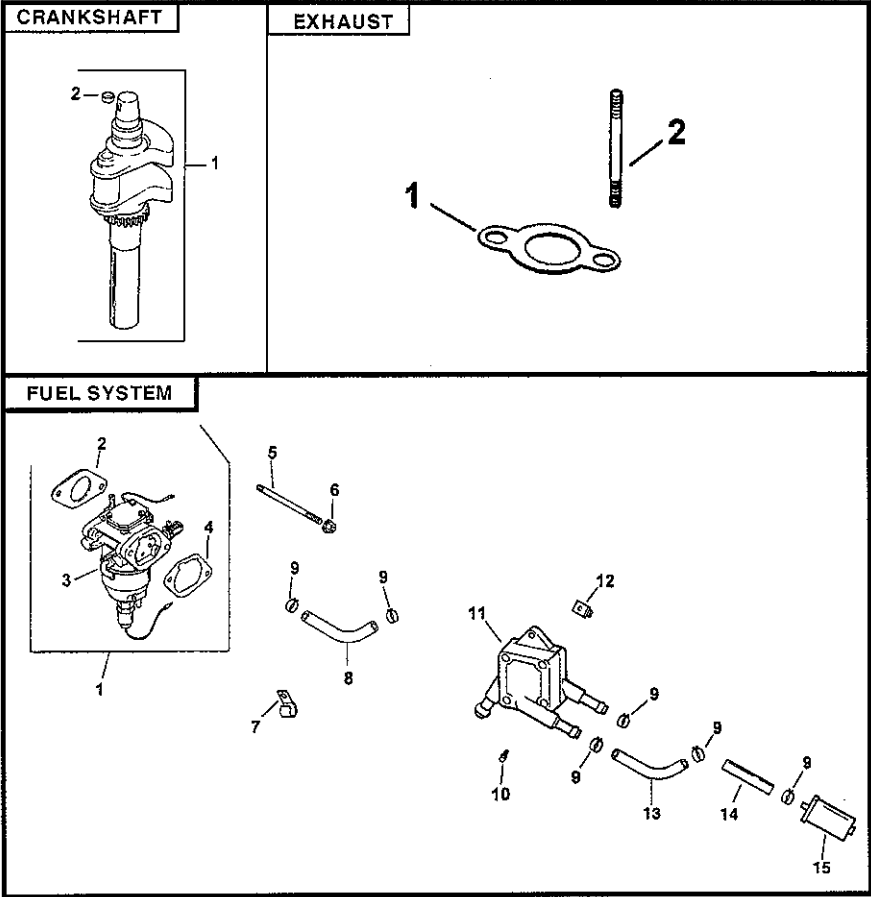
M-545016-S	Screw, hex. flange M5X0.8X16 (Goes into 24-126-56 as a positive throttle stop)
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**OIL PAN/LUBRICATION**

KEY PART NO. NO.	DESCRIPTION
1.	M-645025-S Screw, hex flange M6x1.0x25 (2)
2.	M-631005-S Washer, plain 6 mm (2)
3.	24-199-07-S Pan, oil assembly (Includes 1,2,&4-10)
4.	24-393-08-S Oil pump assembly (Includes 5)
5.	24-123-05-S Tube, oil pickup
6.	24-162-26-S Screen, oil
7.	24-043-12-S Kit, governor gear w/pln (Includes 8)
8.	12-380-01-S Pin, governor regulating
9.	52-448-02-S Tab, locking
10.	12-144-02-S Shaft, governor gear
11.	24-153-08-S O-Ring
12.	X-75-32-S Plug, hex. ctsk. 3/8"
13.	24-136-01-S Nipple, oil filter
14.	52-050-02-S Filter, oil
15.	52-032-08-S Seal, oil (PTO end)
16.	24-086-17-S Screw, hex. flange M8x1.25x45
17.	24-086-16-S Screw, hex. flange M8x1.25x45 (9)
18.	X-75-10-S Plug, sq. hd. solid 3/8" N.P.T.F.

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

**TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**



**TRACTOR -- MODEL NUMBER 917.273090  
 KOHLER ENGINE-MODEL NUMBER CV22S, TYPE NUMBER 75534**

**CRANKSHAFT**

KEY PART NO. NO.	DESCRIPTION
1. 24-014-72-S	Crankshaft (Includes 2)
2. 52-139-09-S	Plug, cup

**EXHAUST**

KEY PART NO. NO.	DESCRIPTION
1. 24-041-02-S	Gasket, exhaust (2)
2. 25-072-04-S	Stud, M8x1.25x33 (4)
-- 24 755 103-S	Gasket Set

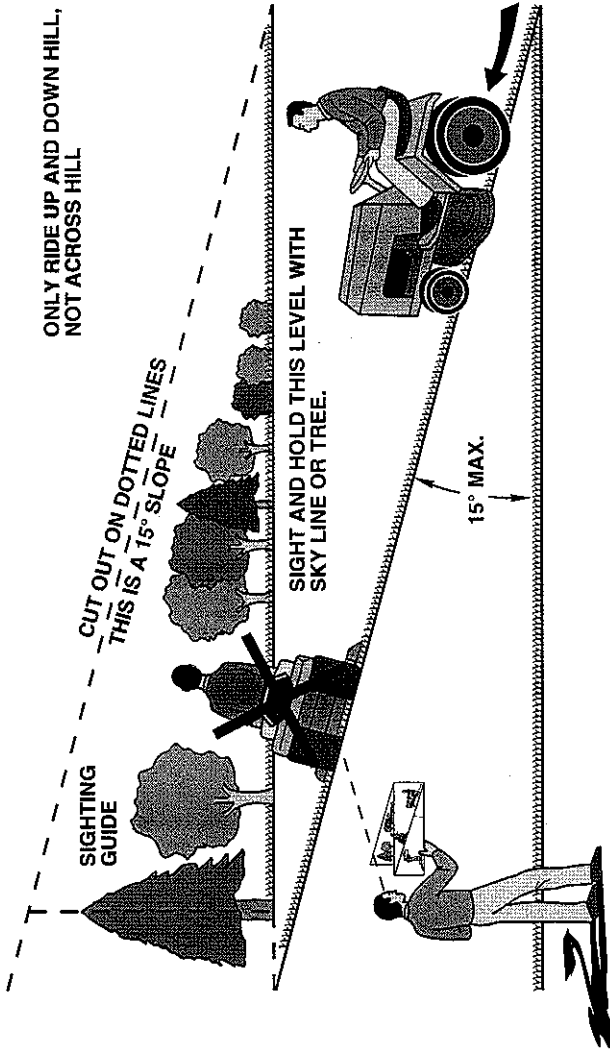
**FUEL SYSTEM**

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

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



# SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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



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