

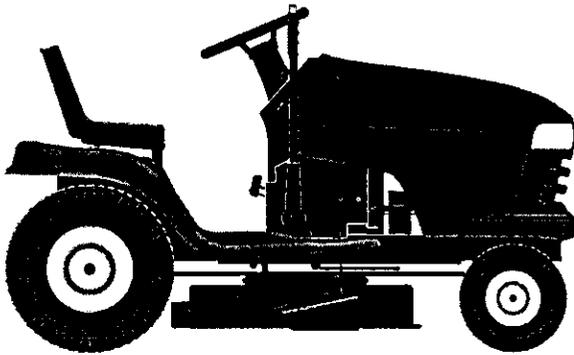
Owner's Manual

CRAFTSMAN®

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

Model No.
917.272233

- 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

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WARRANTY

LIMITED TWO YEAR WARRANTY ON CRAFTSMAN RIDING EQUIPMENT PARTS

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

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts and oil filters.
- Tire replacement or repair caused by punctures from outside objects, such as nails, 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. A product is "used for commercial purpose" if it is used for any purpose other than single family household dwellings or in usage where profit is made.

LIMITED 90 DAY WARRANTY ON BATTERY

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

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

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

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

SAFETY RULES

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

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- 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.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

Slopes are a major factor related to loss-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-SJ):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)	
OIL CAPACITY:	W/FILTER: 4.5 PINTS W/OFILTER: 4.0 PINTS	
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC	
GROUND SPEED (MPH):	1st	1.2
	2nd	1.5
	3rd	2.4
	4th	3.5
	5th	4.8
	6th	5.3
	REVERSE: 1.5	
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI	
CHARGING SYSTEM:	15 AMPS @ 3600 RPM	
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R	
BLADE BOLT TORQUE:	45-55 FT. LBS.	

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

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

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

REPAIR AGREEMENT

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

CUSTOMER RESPONSIBILITIES

- Read and observe the safety rules.
- Follow a regular schedule in 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.

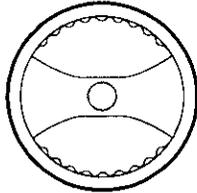
In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears service center. (See REPAIR PARTS section of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

UNASSEMBLED PARTS

Steering Wheel



Steering Wheel Insert



Steering Sleeve

Seat

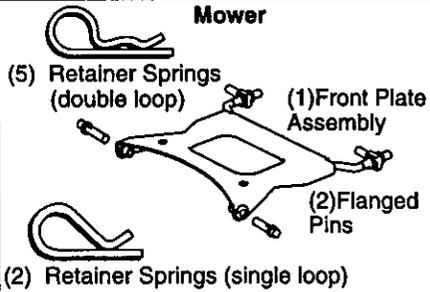


(1) Knob

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



Mower

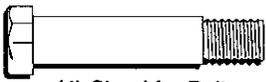


(5) Retainer Springs
(double loop)

(1) Front Plate
Assembly

(2) Flanged
Pins

(2) Retainer Springs (single loop)



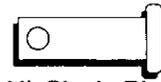
(4) Shoulder Bolt



(4) Adjusting Bar



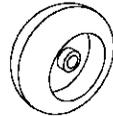
(4) Washers
3/8 x 3/4 x 14 Ga.



(4) Clevis Pins



(4) Retainer Springs
(double loop)

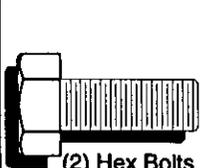


(4) Wheels

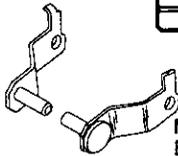


(4) Locknut 3/8-16

(2) Locknuts 5/16-18



(2) Hex Bolts 5/16-18 x 1

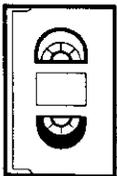


Nose Roller

Nose Roller
Brackets



(2) Washers
17/32 x 7/8 x 16 Ga.



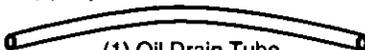
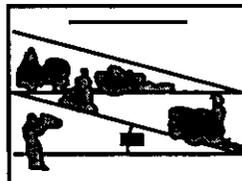
Video
Cassette

Key



(2) Keys

Slope Sheet



(1) Oil Drain Tube
For Future Use

ASSEMBLY

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

TOOLS REQUIRED FOR ASSEMBLY

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

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

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

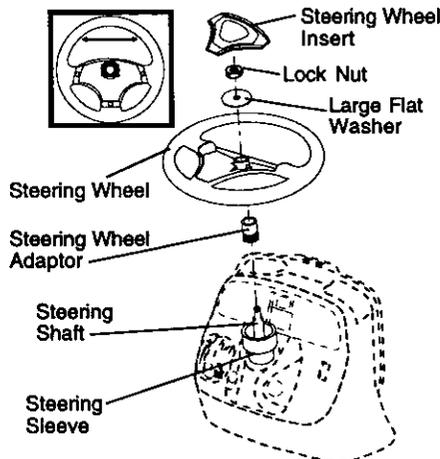
1. Remove all accessible loose parts and parts boxes from shipping carton.
2. Cut, from top to bottom, along lines on all four corners of shipping carton, and lay panels flat.
3. Remove mower and package materials.
4. Check for any additional loose parts or boxes and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL

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

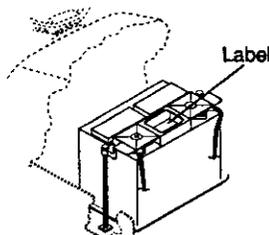
IMPORTANT: Check for and remove any staples in skid that may puncture tires where tractor is to roll off skid.



HOW TO SET UP YOUR TRACTOR

CHECK BATTERY

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

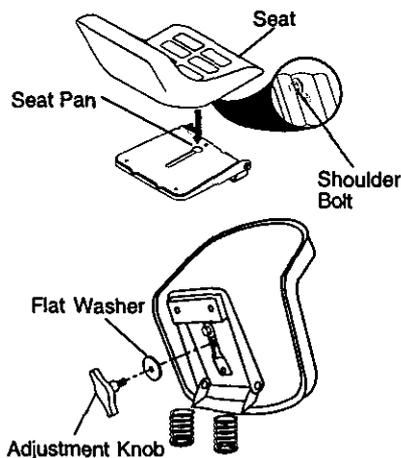


INSTALL SEAT

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 so head of shoulder bolt is positioned over large slotted hole in pan.
4. Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
5. Pivot seat and pan forward and assemble adjustment knob and flat washer loosely. Do not tighten.
6. Lower seat into operating position and sit in seat.
7. Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
8. Get off seat without moving its adjusted position.
9. Raise seat and tighten adjustment knob securely.



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

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

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.

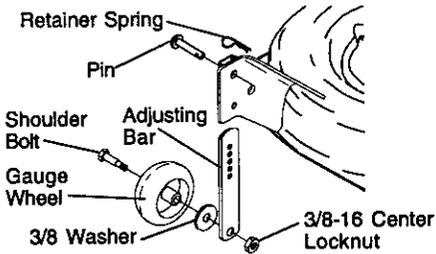
1. Be sure all the above assembly steps have been completed.
2. Check engine oil level and fill fuel tank with gasoline.
3. Sit on seat in operating position, depress clutch/brake pedal and set the parking brake.
4. Place gear shift lever in neutral (N) position.
5. Press lift lever plunger and raise 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.

ASSEMBLE GAUGE WHEELS TO MOWER DECK

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

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

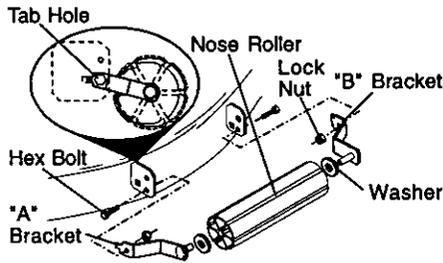
NOTE: Adjust gauge wheels before operating mower. See "TO ADJUST GAUGE WHEELS" in the Operation section of this manual.



TO ATTACH NOSE ROLLER

1. Position brackets, 17/32 x 7/8 x 16 gauge washers, and nose roller between deck mounting brackets as shown. Be sure to position brackets on correct side, as shown.
2. Install hex bolts and lock nuts as shown. Tighten hardware securely.

NOTE: Be sure bracket tabs are positioned in tab holes in deck brackets.



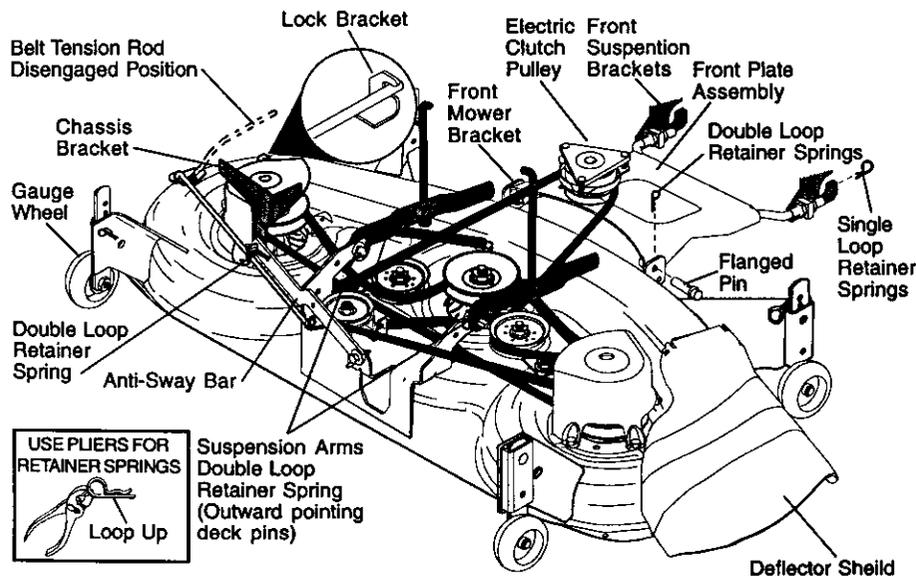
INSTALL MOWER AND DRIVE BELT

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

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.

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



NOTE: To assist in locating hole in flanged pin, the hole in pin is inline with notch on head of pin. If necessary, move mower side-to-side to give space between plate and mower brackets.

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

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

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

11. Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.

12. If equipped, turn height adjustment knob clockwise to remove slack from mower suspension.

13. Raise deck to highest position.

14. Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

CHECK TIRE PRESSURE

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

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

CHECK MOWER LEVELNESS

For best cutting results, mower should be 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:

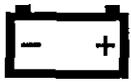
- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated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



MOWER LIFT



ATTACHMENT CLUTCH ENGAGED



REVERSE



NEUTRAL



HIGH



LOW



PARKING BRAKE



IGNITION



ATTACHMENT CLUTCH DISENGAGED



KEEP AREA CLEAR



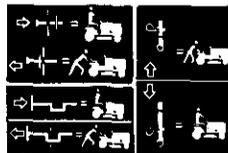
SLOPE HAZARDS



(SEE SAFETY RULES SECTION)



DANGER, KEEP HANDS AND FEET AWAY

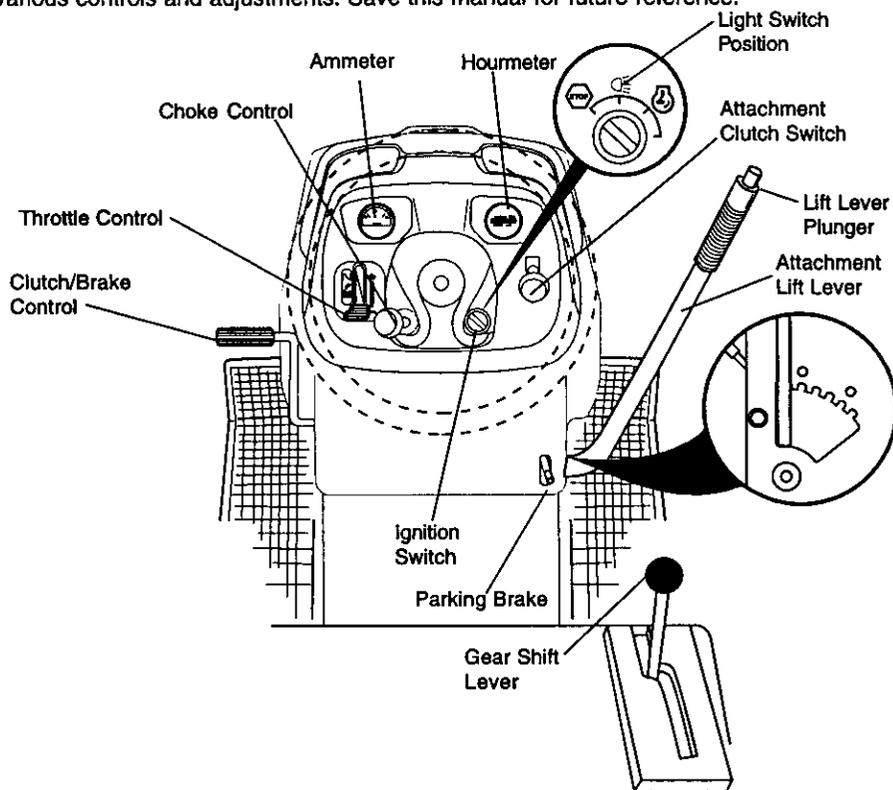


FREE WHEEL
(Automatic Models only)

KNOWYOURTRACTOR

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

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



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

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

LIGHT SWITCH: Turns the headlights on and off.

THROTTLE CONTROL - Used to control engine speed.

CHOKE CONTROL - Used when starting a cold engine.

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

GEARSHIFT LEVER - Selects the speed and direction of tractor.

ATTACHMENT LIFT LEVER - Used to raise, lower, and adjust the mower deck or other attachments mounted to your tractor.

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

IGNITION SWITCH: Used for starting and stopping the engine.

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

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

HOURMETER - Indicates hours of operation.

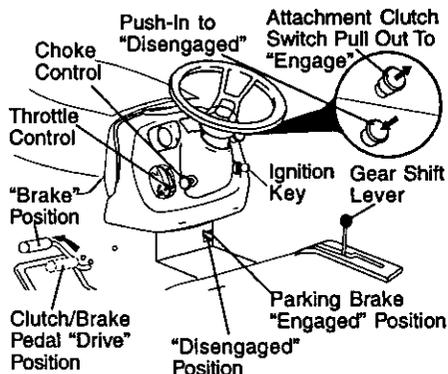


The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR TO SET PARKING BRAKE

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

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 bagging and mower performance.

TO USE CHOKE CONTROL

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

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

TO MOVE FORWARD AND BACKWARD

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

1. Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
2. Move gearshift lever 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 position of the attachment lift lever determines the cutting height.

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

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

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

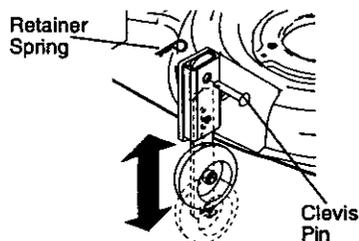
TO ADJUST GAUGE WHEELS

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

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

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

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



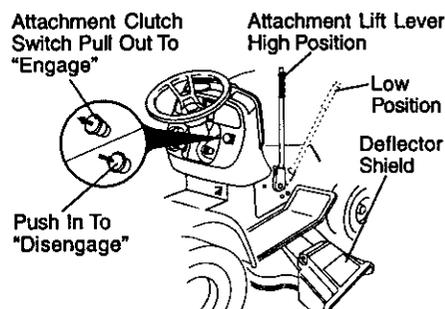
TO OPERATE MOWER

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

1. Select desired height of cut.
2. Start mower blades by engaging attachment clutch control.

TO STOP MOWER BLADES - disengage attachment clutch control.

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



TO OPERATE ON HILLS

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

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

TO TRANSPORT

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

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

TOWING CARTS AND OTHER 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)

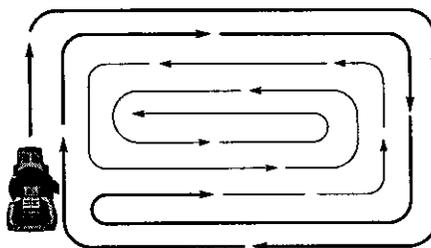
7. When engine starts, slowly push choke control in until the engine begins to run smoothly. Continue to push the choke control in small steps allowing the engine to accept small changes in speed and load, until the choke control is fully in. If the engine starts to run roughly, pull the choke control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

- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the tractor. This will result in a more even distribution of clippings and more uniform cutting.

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



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
T R A C T O R	Check Brake Operation	✓	✓					
	Check Tire Pressure	✓	✓					
	Check Operator Presence and Interlock Systems	✓						
	Check for Loose Fasteners	✓			✓ ₇	✓		
	Sharpen/Replace Mower Blades			✓ ₄			✓	
	Lubrication Chart			✓ ₁			✓	
	Check Battery Level			✓ ₁				
	Clean Battery and Terminals			✓			✓	
	Check Transaxle Cooling			✓				
	Adjust Blade Belt(s) Tension					✓ ₅		
Adjust Motion Drive Belt(s) Tension					✓ ₅			
E N G I N E	Check Engine Oil Level	✓	✓					
	Change Engine Oil			✓ _{1,2,3}			✓	
	Clean Air Filter			✓ ₂				
	Clean Air Screen			✓ ₂				
	Inspect Muffler/Spark Arrester				✓			
	Replace Oil Filter (If equipped)					✓ _{1,2}		
	Clean Engine Cooling Fins					✓ ₂		
	Replace Spark Plug					✓	✓	
	Replace Air Filter Paper Cartridge					✓ ₂		
Replace Fuel Filter						✓		

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

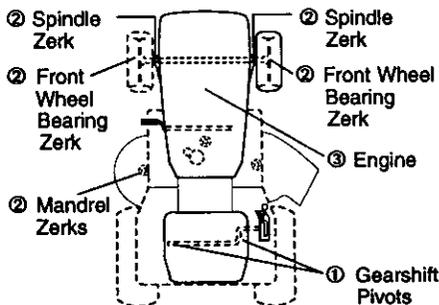
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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

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

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

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

TIRES

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

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

OPERATOR PRESENCE SYSTEM

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

- The engine should not start unless the 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

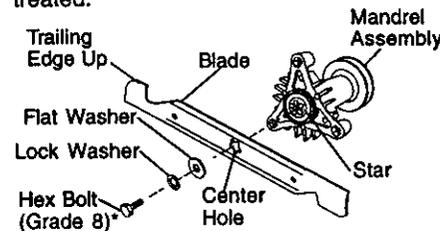
1. Raise mower to highest position to allow access to blades.
2. Remove hex bolt, lock washer and flat washer securing blade.

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 (45-55 Ft. Lbs. torque).

IMPORTANT: Blade bolt is Grade 8 heat treated.



*A Grade 8 Heat Treated Bolt Can Be Identified By Six Lines On The Bolt Head

TO SHARPEN BLADE

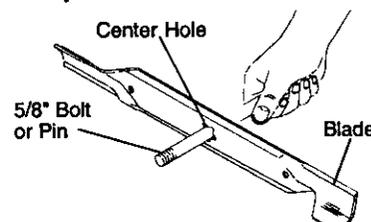
NOTE: We do not recommend sharpening blade, but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with 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 petroleum jelly.
6. Reinstall battery (See "REPLACING BATTERY" in the **SERVICE AND ADJUSTMENTS** section of this manual).

V-BELTS

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

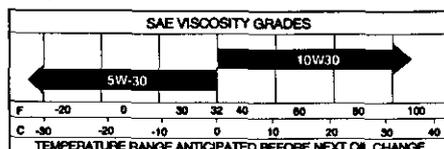
TRANSAXLE COOLING

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

ENGINE

LUBRICATION

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



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

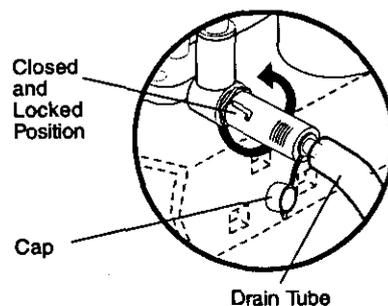
Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

TO CHANGE ENGINE OIL

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

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

Oil Drain Valve



CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

CLEAN AIR INTAKE/COOLING AREAS

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

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

AIR FILTER

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

Service air cleaner more often under dusty conditions.

1. Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

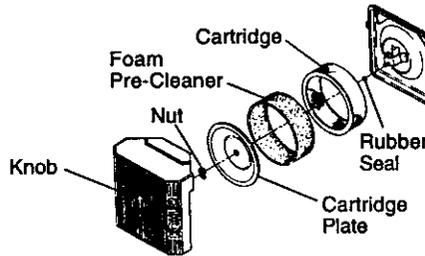
2. Slide foam pre-cleaner off cartridge.
3. Wash it in liquid detergent and water.
4. Squeeze it dry in a clean cloth. Allow it to dry.
5. Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

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



ENGINE OIL FILTER

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

MUFFLER

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

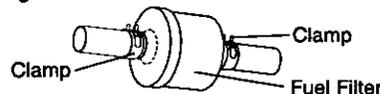
SPARK PLUGS

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

IN-LINE FUEL FILTER

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

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. If equipped, turn height adjustment knob to lowest setting.
3. Lower mower to its lowest position.
4. Disengage belt tension rod from lock bracket.

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

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

TO INSTALL MOWER

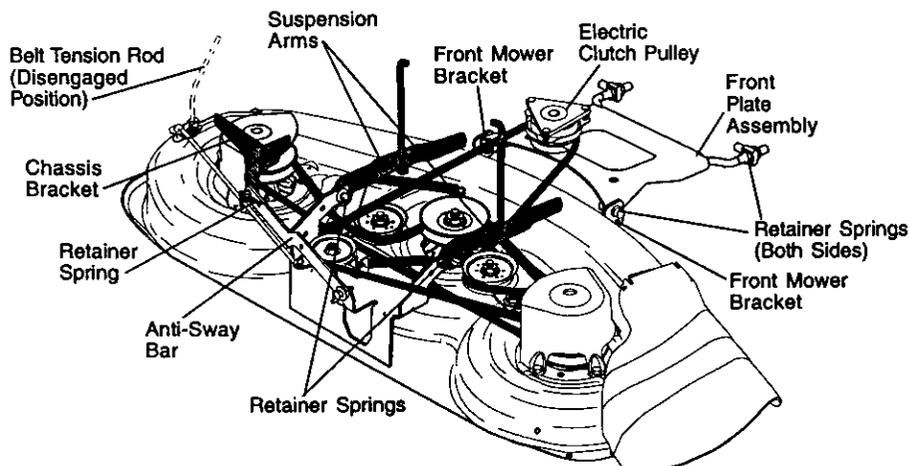
Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

TO LEVEL MOWER HOUSING

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

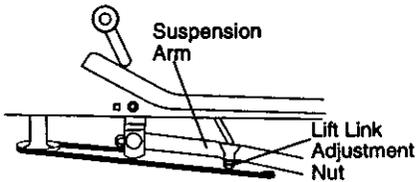
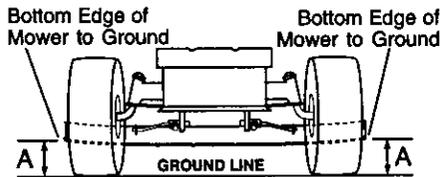
SIDE-TO-SIDE ADJUSTMENT

- Raise mower to its highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" on both sides of mower should be the same or within 1/4" of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.



NOTE: Each full turn of adjustment nut will change mower height about 1/8".

- Recheck measurements after adjusting.



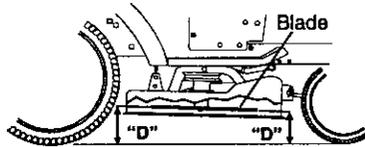
FRONT-TO-BACK ADJUSTMENT

IMPORTANT: Deck must be level side-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.

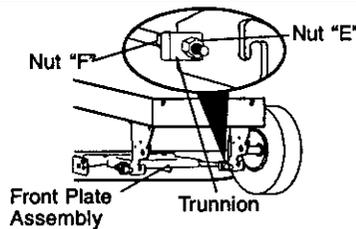
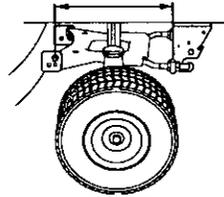
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

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

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



BOTH FRONT LINKS MUST BE EQUAL IN LENGTH



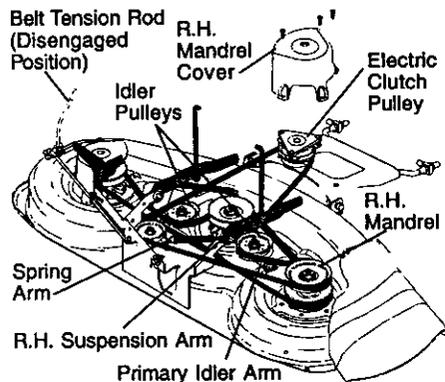
TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL

1. Park tractor on a level surface. Engage parking brake.
 2. Lower mower to its lowest position.
 3. Disengage belt tension rod from lock bracket.
- CAUTION:** Rod is spring loaded. Have a firm grip on rod and release slowly.
4. Remove screws from R.H. mandrel cover and remove cover.
 5. Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
 6. Disconnect R.H. suspension arm from rear deck bracket by removing retainer spring.
 7. Carefully roll belt over the top of R.H. mandrel pulley.
 8. Remove belt from electric clutch pulley.
 9. Remove belt from idler pulleys.
 10. Check primary idler arm and two idlers to see that they rotate freely.
 11. Be sure spring is securely hooked to primary idler arm and spring arm.

MOWER DRIVE BELT INSTALLATION

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

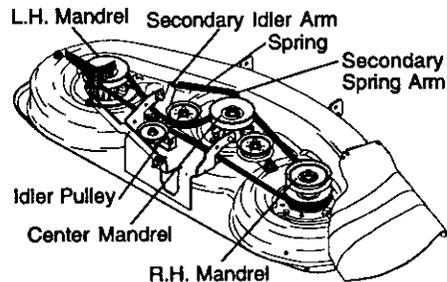


TO REPLACE MOWER BLADE DRIVE BELT

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 L.H. mandrel cover and remove cover.
4. Carefully roll belt off L.H. mandrel pulley.
5. Remove belt from center mandrel pulley, idler pulley, and R.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 pulley to see that they rotate freely.
8. Be sure spring is hooked in secondary idler arm and secondary spring arm.
9. Install new belt in lower groove of R.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
10. Carefully roll belt over L.H. mandrel pulley. Make sure belt is in all grooves properly.

11. Reinstall L.H. mandrel cover.
12. Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
13. Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).



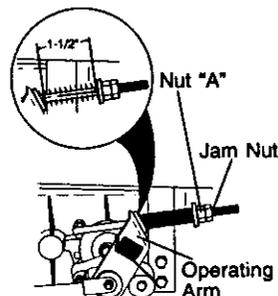
TO ADJUST BRAKE

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

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

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

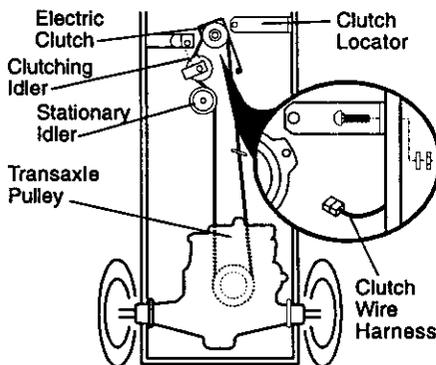
WITH PARKING BRAKE "ENGAGED"



TO REPLACE MOTION DRIVE BELT

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

1. Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
2. Disconnect clutch wire harness.
3. Remove clutch locator.
4. Remove belt from stationary idler and clutching idler.
5. Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
6. Pull belt toward front of tractor and remove downwards from around electric clutch.
7. Install new belt by reversing above procedure.



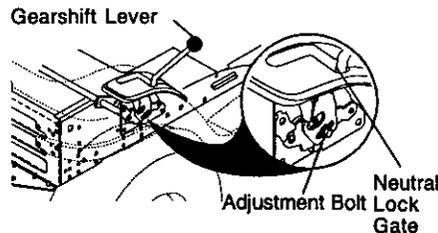
TRANSAXLE GEAR SHIFT LEVER NEUTRAL ADJUSTMENT

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

1. Make sure transaxle is in neutral (N). **NOTE:** When the tractor rear wheels move freely, the transaxle is in neutral.
2. Loosen adjustment bolt in front of the right rear wheel.

3. Position the gear shift lever in the neutral (N) position.

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



TO ADJUST STEERING WHEEL ALIGNMENT

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

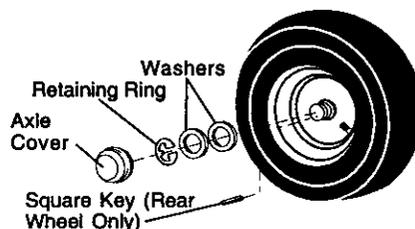
FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS

1. Block up axle securely.
2. Remove axle cover, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
3. Repair tire and reassemble. **NOTE:** On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
4. Replace washers and snap retaining ring securely in axle groove.
5. Replace axle cover.

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



TO START ENGINE WITH A WEAK BATTERY

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:

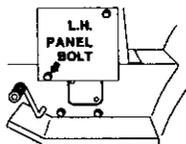
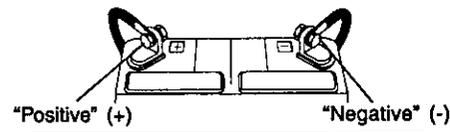
IMPORTANT: Your tractor is equipped with a 12 volt negative grounded system. The other vehical must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

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.

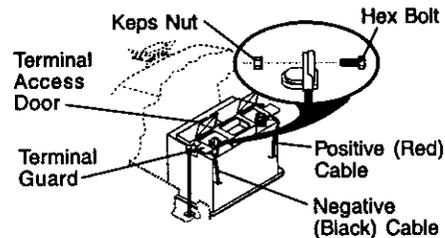


REPLACING BATTERY

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 LAMP

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

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

INTERLOCKS AND RELAYS

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

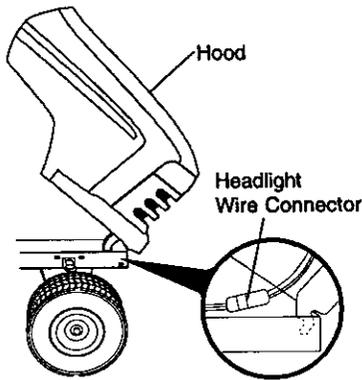
- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

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

TO REMOVE HOOD AND GRILL ASSEMBLY

1. Raise hood.
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.



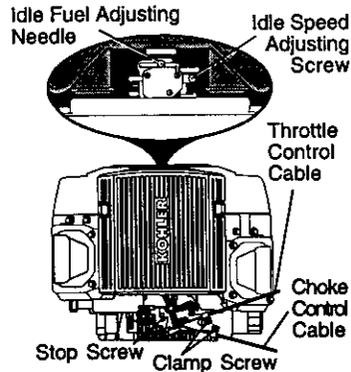
ENGINE

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:

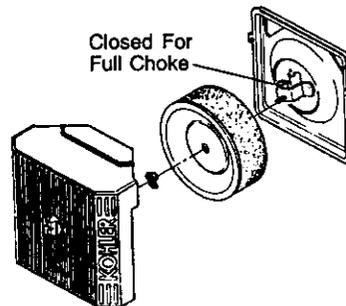
1. With engine not running, move throttle control lever to fast position.
2. Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.



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 a Sears or other qualified service center, which has proper equipment and experience to make any necessary adjustments.

STORAGE

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

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

TROUBLESHOOTING CHART

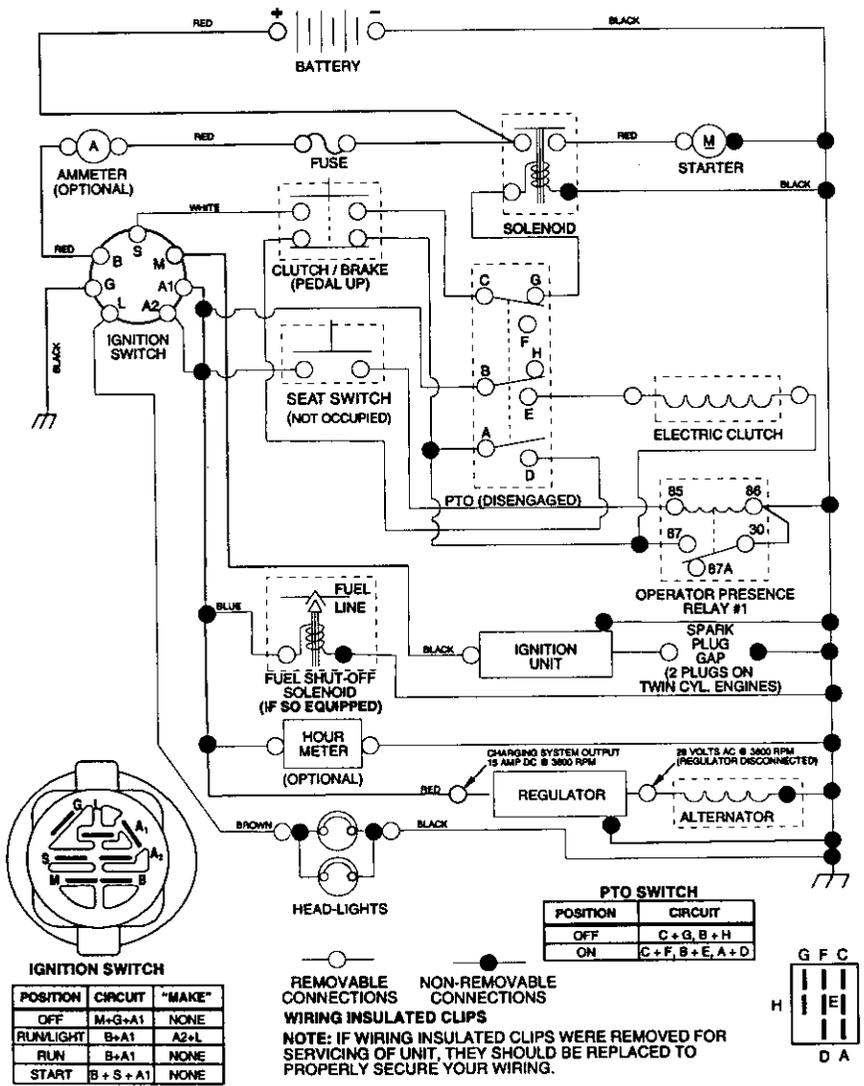
PROBLEM	CAUSE	CORRECTION
Loss of power	<ol style="list-style-type: none"> 1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty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

TROUBLESHOOTING CHART

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

TRACTOR -- MODEL NUMBER 917.272233

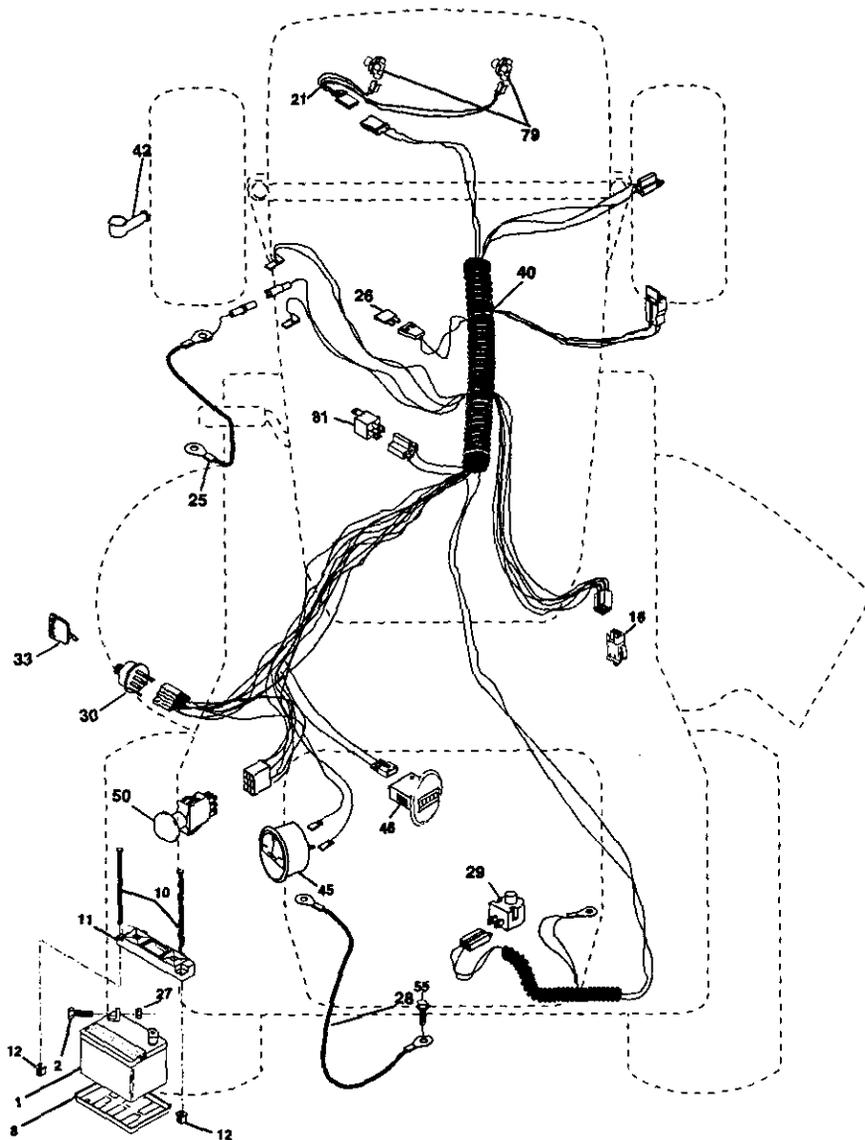
SCHEMATIC



REPAIR PARTS

TRACTOR-- MODEL NUMBER 917.272233

ELECTRICAL

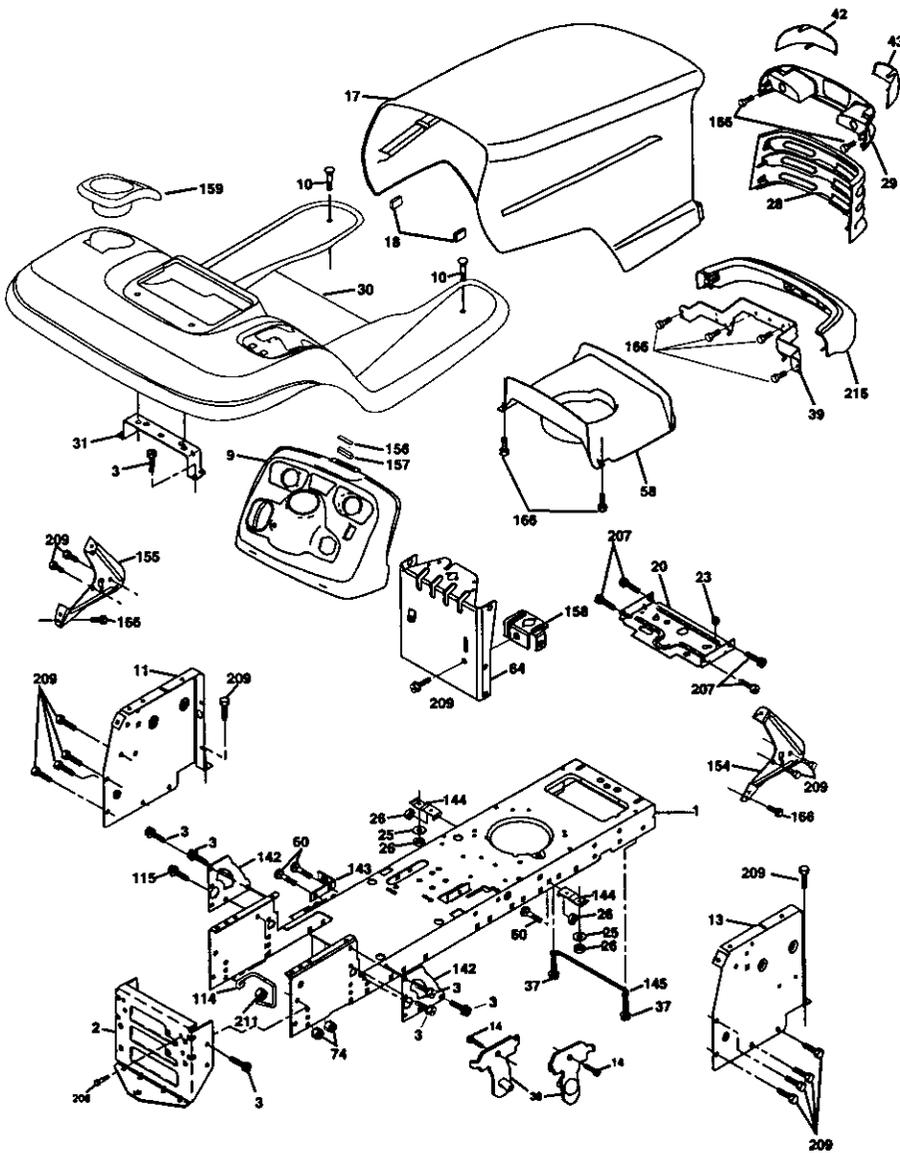


ELECTRICAL**TRACTOR -- MODEL NUMBER 917.272233**

KEY PART NO.	PART NO.	DESCRIPTION
1	163465	Battery
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	7603J	Tray, Battery
10	145211	Bolt, Btr Front 1/4-20 x 7-1/2
11	150109	Holddown Battery Front Mount
12	145769	Nut, Push Nylon Battery Front 1/4
16	153664	Switch Interlock Push-In
21	175449	Harness, Light
25	178909	Cable, Battery
26	175158	Fuse
27	73510400	Nut Keps Hex 1/4-20 UNC
28	145491	Cable, Ground
29	160784	Switch, Seat
30	175442	Switch, Ignition
33	175447	Key, Molded, Craftsman
40	178452	Harness, Ignition
42	154336	Cover Terminal
45	177500	Ammeter
46	177501	Houmeter Snap-In
50	178461	Switch Pto 3 Pdt Red Delta
55	17490508	Screw Thdrol 5/16-18 x 1/2
67	177502	Pin Connector
68	177503	Connector
79	175448	Lamp Assembly
81	109748X	Relay Asm

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

TRACTOR -- MODEL NUMBER 917.272233
CHASSIS AND ENCLOSURES

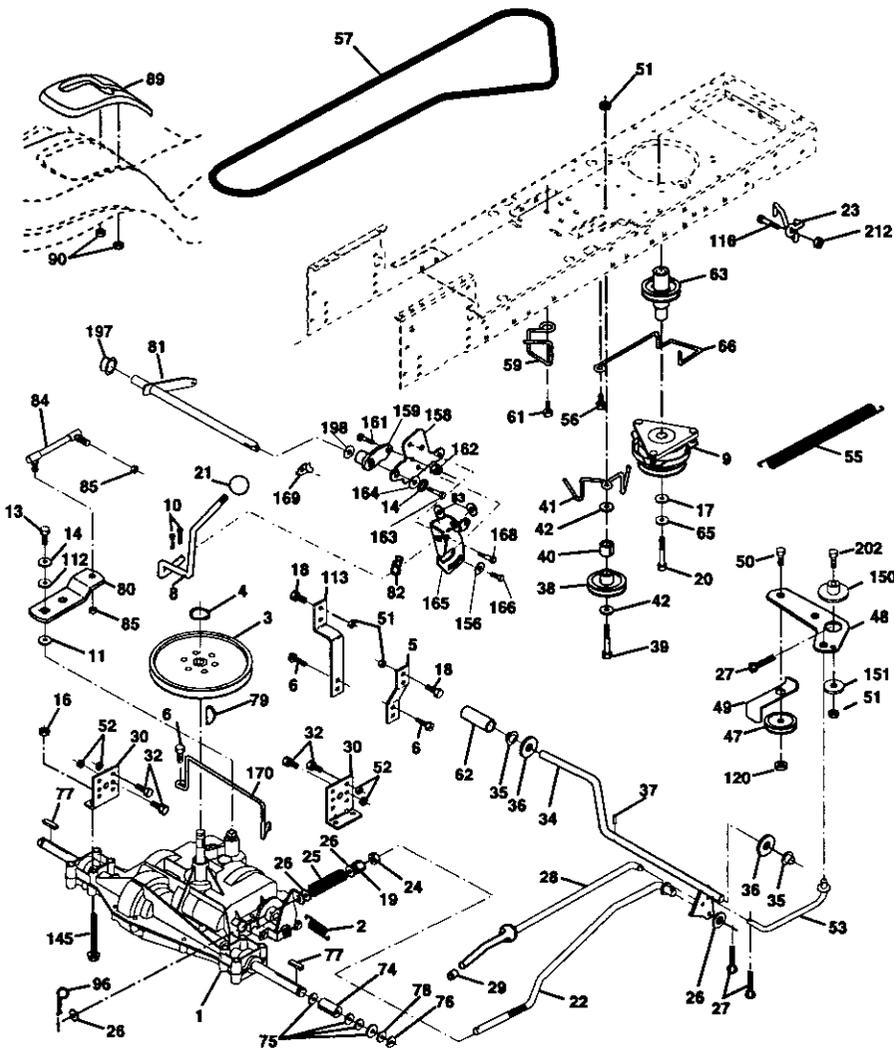


TRACTOR -- MODEL NUMBER 917.272233
CHASSIS AND ENCLOSURES

KEY PART NO.	PART NO.	DESCRIPTION
1	174619	Chassis
2	176554	Drawbar
3	17060612	Screw, 3/8-16 x 3/4
9	172542X418	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 1
11	174996	Panel, Dash, LH
13	179174X010	Panel, Dash, RH
14	17490608	Screw Thdrol 3/8-16 x 1/2
17	172540X615	Hood LTX
18	126938X	Bumper Hood
20	156437	Plate Battery STYT
23	124028X	Bushing Snap
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut, Hex, with Insert 3/8-16 UNC
28	174945X418	Grille, MS-558
29	174944X418	Light Box, Dual
30	175692X615	Fender/Footrest
31	139976	Bracket, Fender/Support
37	17490508	Screw, Thdrol. 5/16-18 x 1/2 TYT
38	175710	Bracket Asm Pivot Mower Rear
39	174988	Bracket Pivot Hood LTX
42	172545X599	Lens LH
43	172544X599	Lens RH
58	174993	Duct Hood
60	STD533707	Bolt Rdhd Sqnk 3/8-16 UNC x 3/4
64	174997	Dash Lower STYT
74	STD541437	Nut Crownlock 3/8-16 UNC
114	158112	Keeper Belt Rear Lh STL
115	17060620	Scrw 3/8-16 x 1-1/4
142	175702	Plate Reinforcement STLT
143	154966	Bracket Swaybar Chassis
144	175582	Bracket Footrest STLT
145	156524	Rod Pivot Chassis/Hood
154	174679	Bracket Dash Rh
155	174680	Bracket Dash Lh
156	163805	Striker Plate
157	163806	Magnet YTG T
158	162037	Parking Brake Bkrt
159	155123X418	Cupholder Stil Blk
166	164863	HWHDH:-Lo. #13-16 x 3/4
206	170165	Bolt Shoulder 5/16-18
207	17670508	Screw Thdrol 5/16-18 x 1/2
209	17000612	Screw Hexwsh Thdr 3/8-16 x 3/4
211	145212	Nut Hexflange Lock
215	172543X615	Bumper

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

TRACTOR -- MODEL NUMBER 917.272233
GROUND DRIVE



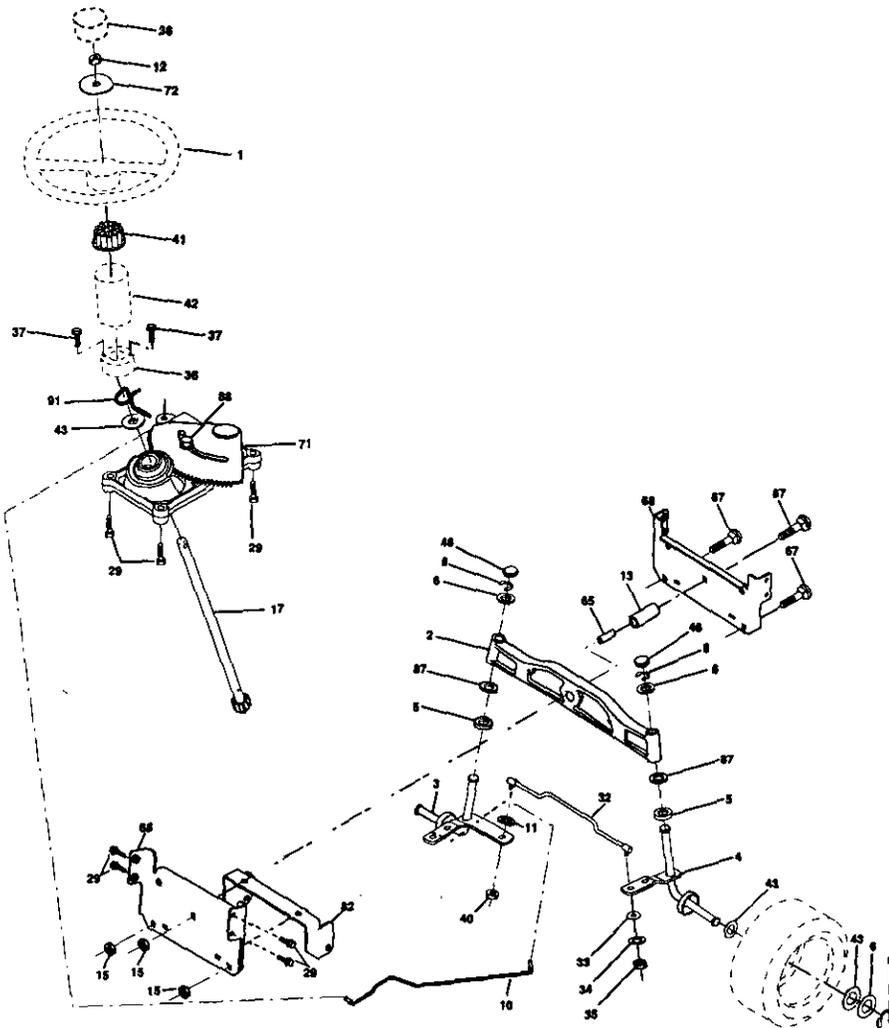
TRACTOR -- MODEL NUMBER 917.272233

GROUND DRIVE

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	----- Transaxle (See Breakdown) Peerless 206-545C	57	130801 V-Belt, Ground Drive
2	146682 Spring, Return, Brake	59	169691 Keeper, Belt, Center Span
3	123666X Pulley, Transaxle	61	17060612 Screw 3/8-16 x 3/4
4	12000028 Ring, Retainer	62	123533X Cover, Pedal
5	121520X Strap, Torque	63	175417 Pulley, Clutch
6	17060512 Screw 5/16-18 x 3/4	65	126187X Washer
8	165866 Rod Shifter Fender STLT	66	154778 Keeper, Belt, Engine, Foot-Proof
9	174367 Clutch Elect EVX	74	137057 Spacer, Axle
10	STD561210 Pin, Cotter	75	121749X Washer 25/32 x 1-1/4 x 16 Ga.
11	105701X Washer, Shift Plate	76	STD581075 E-Ring
13	74550412 Bolt 1/4-28 UNF W/Patch Gr. 8	77	123583X Key, Square 2.0 x .1845/.1865
14	10040400 Washer Lock Hvy Helical	78	121748X Washer 25/32 x 1-5/8 x 16 Ga
16	STD541431 Nut Lock Hx W/lns 5/16-18unc	79	STD580025 Key Woodruff
17	10040700 Washer Lock 7/16	80	145090 Arm, Shift
18	STD523710 Bolt Fin Hex 3/8-16UNC x 1 Gr 5	81	165592 Shaft Asm Cross Tapered 650 20
19	STD541437 Nut	82	165711 Spring, Torsion
20	173937 Bolt Hex 7/16-20 x 4	83	19171216 Washer 17/32 x 3/4 x 16 Ga.
21	106933X Knob	84	166231 Link Transaxle
22	130804 Rod, Brake	85	150360 Nut, Nylock
23	178289 Bracket Asm Anti-Rotate EVX	89	158391X418 Console, Shift, STLT
24	STD541237 Nut	90	124346X Nut, Self-Thding, Wsh Hd 1/4
25	106888X Spring, Brake Rod	96	STD624003 Retainer Spring 1"
26	STD551037 Washer	112	19091210 Washer 9/32 x 3/4 x 10 Ga.
27	STD561210 Pin	113	127285X Strap Torque 90 Degrees
28	175798 Rod, Parking Brake	116	72140608 Bolt RDHD 3/8-16 x 1
29	175799X505 Cap, Parking Brake	120	73900600 Nut Lock 3/8-16
30	169592 Bracket, Transaxle	145	74490540 Bolt, Hex Flghd 5/16-18 Gr. 5
32	STD523107 Bolt	150	175456 Spacer Retainer
34	175578 Shaft Assembly, Foot Pedal	151	19133210 Washer 13/32 x 2 x 10 Ga.
35	120183X Bearing, Nylon	156	166002 Washer Srted 5/16ID x 1.125
36	STD551062 Washer	158	165589 Bracket Shift Mount
37	STD571810 Roll Pin	159	165494 Hub Tapered Flange Shift Lt
38	165936 Pulley, Idler, Flat	161	72140406 Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr.5
39	74760648 Bolt Fin Hex 3/8-16 x 3	162	73680400 Nut Crownlock 1/4-20 Unc
40	175461 Spacer, Split .395 x .59	163	74780416 Bolt Hex Fin 1/4-20Unc x 1 Gr 5
41	175556 Keeper, Belt, Idler	164	19091010 Washer 5/8 x .281 x 10 Ga
42	19131312 Washer 13/32 x 13/16 x 12 Ga.	165	165623 Bracket Pivot Lever
47	127783 Pulley, Idler, V-Groove, Plastic	166	166880 Screw 5/16-18 x 5/8
48	154407 Bellcrank Clutch Grnd Drv Stl	168	165492 Bolt Shoulder 5/16-18 x .561
49	123205X Retainer, Belt	169	165580 Plate Fastening Lt
50	STD523715 Bolt	170	178394 Keeper Belt Transaxle Gear
51	STD541437 Nut Crown Lock 3/8-16 UNC	197	169613 Nyloner Snap-In
52	STD541431 Nut Crown Lock 5/16-18 UNC	198	169593 Washer Nyloner
53	105710X Link, Clutch	202	72110612 Bolt Carr. SH 3/8-16 x 1-1/2 Gr. 5
55	105709X Spring, Clutch Return	212	145212 Nut Hex Flange Lock
56	17060616 Screw 3/8-16 x 1		

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

TRACTOR -- MODEL NUMBER 917.272233
STEERING ASSEMBLY



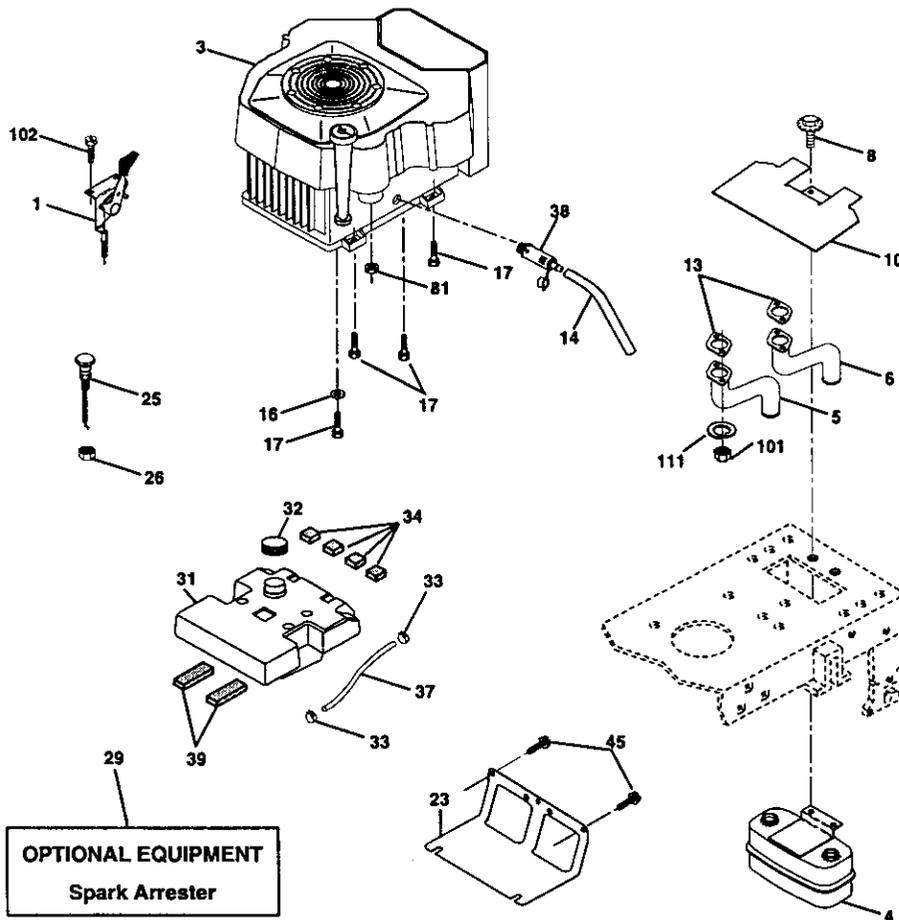
TRACTOR -- MODEL NUMBER 917.272233
STEERING ASSEMBLY

KEY PART NO.	PART NO.	DESCRIPTION
1	175139X418	Steering Wheel
2	172393	Axle Assembly Cast Iron
3	169840	Spindle Assembly, L.H.
4	169839	Spindle Assembly, R.H.
5	6266H	Bearing, Race, Thrust, Hardened
6	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
8	12000029	Ring, Klip
10	175121	Draglink
11	10040600	Washer Lock 3/8
12	73940800	Nut Hex Jam Toplock 1/2-20 Unf
13	136518	Spacer Brg Axle Front
15	145212	Nut Hexflange Lock
17	177883	Shaft Assembly, Steering
29	17060612	Screw, 3/8-16 x 3/4
32	170162	Rod, Tie
33	19111216	Washer 11/32 x 3/4 x 16 Ga/
34	STD551131	Washer Lock Hvy Spr. 5/16
35	73540500	Locknut 5/16-24 Unf
36	155105	Bushing, Steering
37	152927	Screw
38	175140X418	Insert, Steering Wheel
40	STD541537	Gripco Nut
41	159945	Adaptor, Steering Wheel
42	174530X418	Boot, Steering Shaft
43	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
46	121232X	Cap, Spindle
65	160367	Spacer Brace Axle
67	72140618	Bolt Rdhd Sq 3/8-16 UNC x 2-1/4
68	169827	Axle, Brace
71	175146	Steering Asm.
72	19182411	Washer 9/16 Id x 1-1/2Od 11 G Zin
82	169835	Bracket Susp Chassis Front
87	173966	Washer Flat .781 x 1 1/2 x .14
88	175118	Bolt Shoulder 7/16-20
91	175553	Clip Steering

NOTE: All component dimensions given in U.S. inches
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TRACTOR -- MODEL NUMBER 917.272233

ENGINE



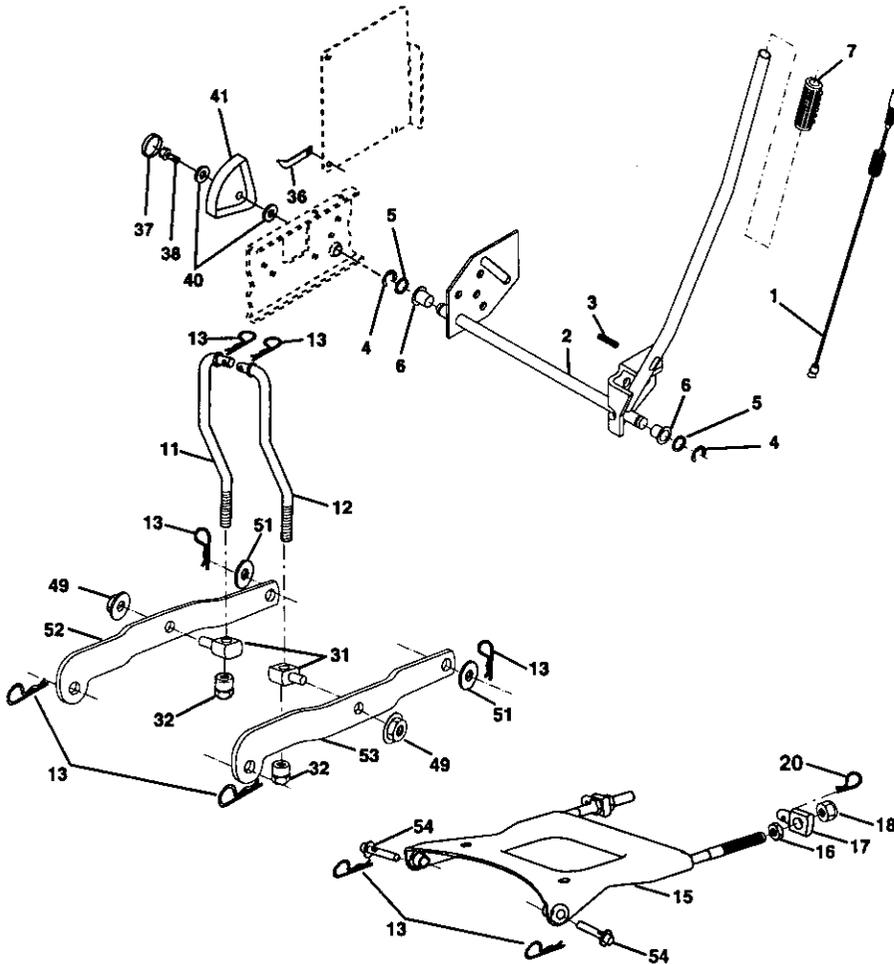
KEY PART NO. NO.	DESCRIPTION
1	175439X505 Control, Throttle
3	----- Engine, (See Breakdown) Kohler Model Number CV624-65578
4	149723 Muffler
5	146699 Pipe Exhaust LH
6	146700 Pipe Exhaust RH
8	171877 Bolt 5/16-18 UNC x 3/4 w/Sems
10	146629 Shield, Heat Muffler
13	24-041-02 Muffler Gasket (See Engine Breakdown)
14	148456 Tube Drain Oil Easy
16	11050600 Washer, Lock, External Tooth 3/8
17	17490624 Screw Thdrol 3/8-16 x 1-1/2
23	169837 Shield, Browning / Debris Guard
25	175441X505 Choke Control
26	73920600 Nut, Keps 3/8-24 UNF

KEY PART NO. NO.	DESCRIPTION
29	137180 Kit, Spark Arrester
31	157103 Tank Fuel
32	161696 Cap Asm Fuel
33	123487X Clamp, Hose
34	106082X Pad, Spacer
37	8543R Line, Fuel
38	148315 Plug Drain Oil Easy
39	109227X Pad, Idler
45	17000612 Screw Hexwsh Thdr 3/8-16 x 3/4
81	73510400 Nut Keps Hex 1/4-20 UNC
101	M73030800 Nut Flange M8-1.25
102	164863 Screw Hwmd H.-Lo #13016 x 3/4
111	10010500 Washer Split

NOTE: All component dimensions given in U.S. inches
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TRACTOR -- MODEL NUMBER 917.272233

LIFT ASSEMBLY

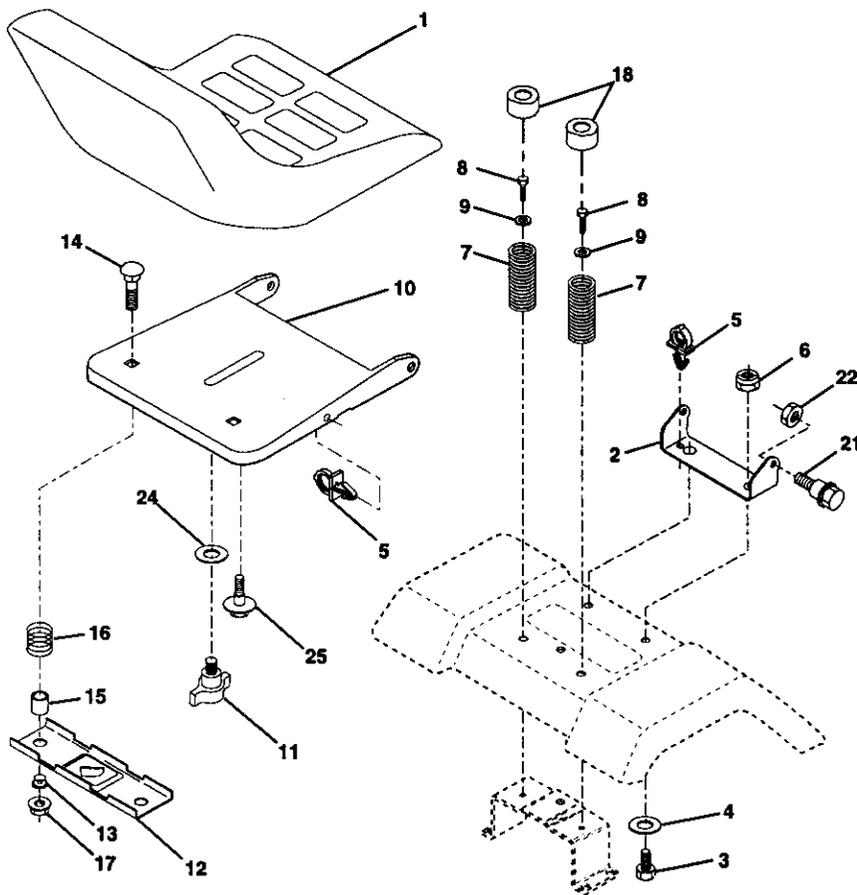


KEY PART NO. NO.	DESCRIPTION
1	176263 Plunger Assembly
2	159476 Shaft Assembly, Lift
3	178981 Pin, Groove
4	12000002 E-Ring
5	19211621 Washer 21/32 x 1 x 21 Gauge
6	120183X Bearing, Nylon
7	175830 Grip, Handle, Fluted
11	175370 Link, Lift, L.H.
12	175371 Link, Lift, R.H.
13	4939M Retainer Spring
15	175562 Link, Front
16	73350800 Nut, Hex, Jam 1/2-13 UNC
17	175689 Trunnion
18	73800800 Nut Lock w/wsh 1/2-13 UNC
20	163552 Retainer Spring

KEY PART NO. NO.	DESCRIPTION
31	176205 Bearing, Pvt, Lift Spherical
32	175994 Nut, Lift Link 7/16-20
36	155097 Pointer Height Indicator
37	123935X Plug Hole
38	17060516 Screw 5/16-18 x 1
40	19112410 Washer 11/32 x 1-1/2 x 10 Ga
41	155098 Indicator Height Stilt
49	145212 Nut Hex/Large Lock
51	19171416 Washer
52	175802 Suspension Arm RH
53	175378 Suspension Arm LH
54	175560 Pin Flange

NOTE: All component dimensions given in U.S. inches
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TRACTOR -- MODEL NUMBER 917.272233
SEAT ASSEMBLY



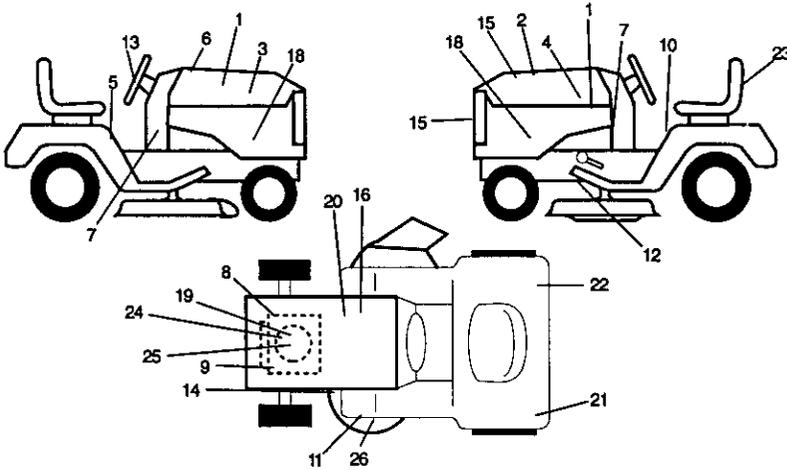
KEY PART NO. NO.	DESCRIPTION
1	175134 Seat
2	140551 Bracket, Pivot, Seat
3	71110616 Bolt
4	19131610 Washer 13/32 x 1 x 10 Ga.
5	145006 Clip, Push-In Hinged
6	STD541437 Nut
7	124181X Spring, Seat
8	17000616 Screw 3/8-16 x 1-1/2
9	19131614 Washer 13/32 x 1 x 14 Ga.
10	174894 Pan, Seat Emboss QCK Conn.
11	177957 Knob Seat
12	121246X Bracket, Switch Mounting
13	121248X Bushing, Snap

KEY PART NO. NO.	DESCRIPTION
14	72050412 Bolt, Carriage 1/4-20 x 1-1/2
15	121249X Spacer, Split
16	123740X Spring
17	123976X Locknut, Flange 1/4 Gr. 5
18	124238X Cap Spring Seat
21	171852 Bolt, Shoulder 5/16-18 UNC
22	STD541431 Nut
24	19171912 Washer 17/32 x 1-3/16 x 12 Ga.
25	127018X Bolt, Shoulder 5/16-18 x .62

NOTE: All component dimensions given in U.S. inches
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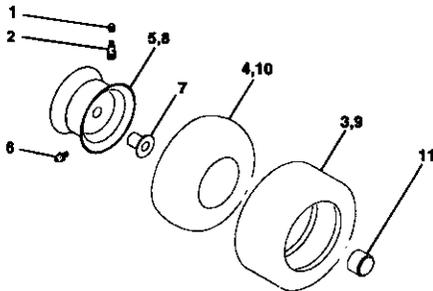
TRACTOR -- MODEL NUMBER 917.272233

DECALS



KEY PART NO.	DESCRIPTION	KEY PART NO.	DESCRIPTION
1	177888 Decal, Hood Name Plc.	16	138047 Decal, Battery Diehard
2	177249 Decal, Replacement Parts	18	177913 Decal, Panel Side
3	177909 Decal, Hood, R.H.	19	177918 Decal, Blower Housing
4	177910 Decal, Hood, L.H.	20	149516 Decal, Battery Dngr/Psn Eng
5	156368 Decal, Fender STLT Opr Inst	21	174969 Reflector
6	133644 Decal, Customer Maintenance	22	174970 Reflector
7	177967 Decal, Dash Pnl	23	178989 Decal, Seat
8	177916 Decal, ENCN KP 20 Sears LTX RH	24	177914 Decal, Engine
9	177917 Decal, ENCN KP 20 Sears LTX LH	25	177915 Decal, Engine
10	156439 Decal, Fender Danger	26	178455 Decal, Deck Caution 48
11	178482 Decal, Deck Heavy Duty	--	138311 Decal, Lift Handle
12	146046 Decal, V-Belt Drive Schematic	--	174998X418 Pad Footrest LH STLT
13	177890 Decal, Strg Wheel	--	174999X418 Pad Footrest RH STLT
14	175291 Decal, V-Belt Schematic	--	179435 Owner's Manual, English
15	177889 Decal Replc	--	179436 Owner's Manual, Spanish

WHEELS & TIRES



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

NOTE: All component dimensions given in U.S. inches
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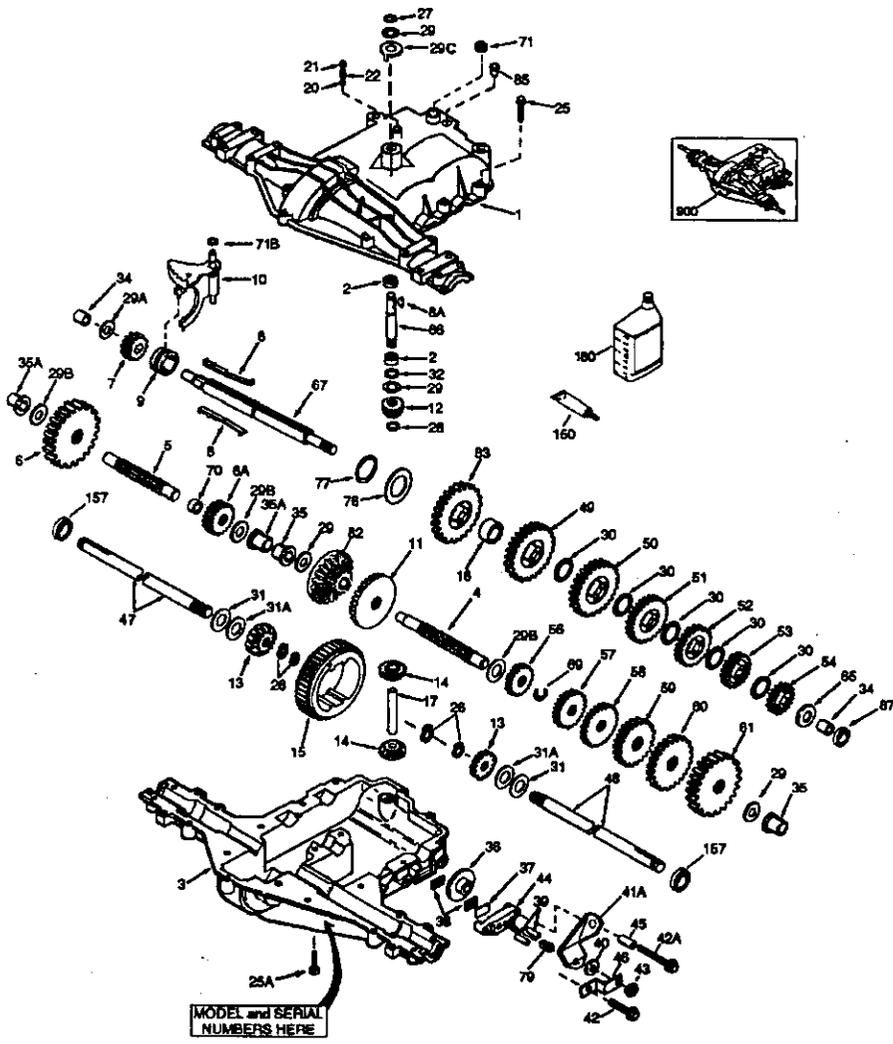
TRACTOR -- MODEL NUMBER 917.272233

MOWER DECK

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	174348	Deck Weldment Mower 48	55	72140608	Bolt 3/8-16 x 1
3	138017	Bracket Asm., Sway Bar	56	155986X431	Bar Pnt Adj.
5	4939M	Retainer Spring	57	156941	Pin Head Rivet
6	130832	Arm, Suspension, Rear(Sway Bar)	72	19131312	Washer 13/32 x 13/16 x 12
8	174365	Bolt 7/16 Asm. Blade	90	74760516	Bolt Hex 5/16-18 x 1
11	173920	Blade	91	175996	Bracket Asm. Noseroller LH
13	174360	Shaft Asm. w/Lower Bearing	92	73800600	Nut Lock Hex W/Ins 3/8-16 UNC
14	174358	Asm Greasable, Mandrel	93	19171416	Washer 17/32 x 7/8
15	110485X	Bearing, Bail, Mandrel	94	176066	Noseroller
16	174493	Stripper Mandrel Deck	95	175384	Bracket Asm Noseroller RH
17	72110610	Bolt RDHD Sq Neck 3/8-16x1.25	97	133943	Washer Hardened
18	72140505	Bolt, Carriage 5/16-18 x 5/8	98	174370	Spring Primary Drive
19	132827	Bolt, Hex Hd, Shoulder 5/16-18	99	175080	Pulley IdlerV"
20	174378	Baffle, Vortex Mower	100	72110616	Bolt RDHD Sqnc 3/8-16 UNC x 2
21	73680500	Nut, Crownlock 5/16-18 UNC	107	175294	Baffle Vac Edge Mower
24	105304X	Cap, Sleeve	108	72110404	Bolt Carr.
25	178102	Spring, Torsion	109	73680400	Nut Crownlock 1/4-20
26	110452X	Nut, Push	110	175016	Arm Spring Secondary
27	174346X428	Deflector Shield	112	174387	Link Tension Relief Lever
28	19111016	Washer 11/32 x 5/8 x 16 Ga.	113	72110508	Bolt Carr. 5/16-18 x 1
29	131491	Rod,Hinge	114	174384	Tension Asm. Relief Lever
30	173984	Screw, Thdroll DOP. PT. Hex	115	174609	Arm Spring Tension Relief
31	129963	Washer, Spacer Mower Vented	116	137644	Bolt, Shoulder
32	177865	Pulley, Mandrel	117	174873	Gauge Wheel
33	178342	Nut, Flg. Top Lock Cntr. 9/16	118	73930600	Nut, Centerlock 3/8-16 UNC
36	19131316	Washer 13/32 x13/16 x 16 Ga.	119	19121414	Washer 3/8 x 7/8 x 14 Ga.
37	177968	Pulley, Idler	121	174371	Spring Secondary Drive
39	174375	Pulley, Idler, Driven	122	174606	Bushing Pivot Tension Relief
42	165723	Spacer, Retainer	126	174372	Arm, Idler, Primary Deck
43	174373	Arm, Idler Secondary	130	17060616	Screw 3/8-16 x 1.0
45	174343	Cover, Mandrel Deck	132	17060612	Screw Thdrol 3/8-16 x 3/4
46	137729	Screw, Thdroll. 1/4-20 x 5/8	180	73800500	Nut Lock Hex W/Ins 5/16-18
47	174369	V-Belt, Mower, Secondary	--	175312	Replacement Mower, Complete
48	174368	V-Belt, Mower, Primary	--	174356	Mandrel Asm. Service (Includes Key Nos. 13-15)
49	73680600	Nut, Crownlock 3/8-16 UNC			
50	72110612	Bolt, Carr. 3/8-16 x 1-1/2 Gr. 5			
52	175820	Pulley Idler Flat			
54	74780616	Bolt Fin Hex 3/8-16 x 1			

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

TRACTOR -- MODEL NUMBER 917.272233
PEERLESS TRANSAXLE -- MODEL NUMBER 206-545C



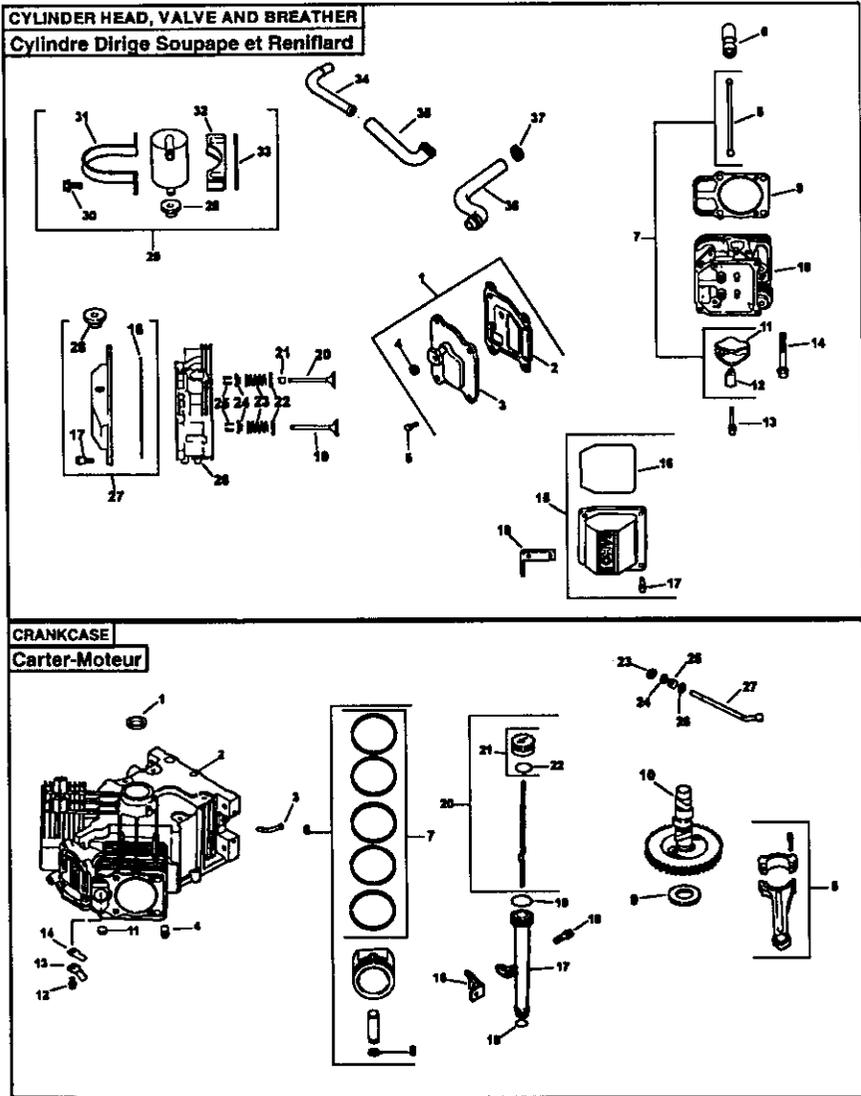
TRACTOR -- MODEL NUMBER 917.272233

PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C

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

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

TRACTOR -- MODEL NUMBER 917.272233
KOHLER ENGINE-MODEL NUMBER CV624, TYPE NUMBER 65578



**TRACTOR -- MODEL NUMBER 917.272233
KOHLER ENGINE-MODEL NUMBER CV624, TYPE NUMBER 65578**

HEAD/VALVE/BREATHER

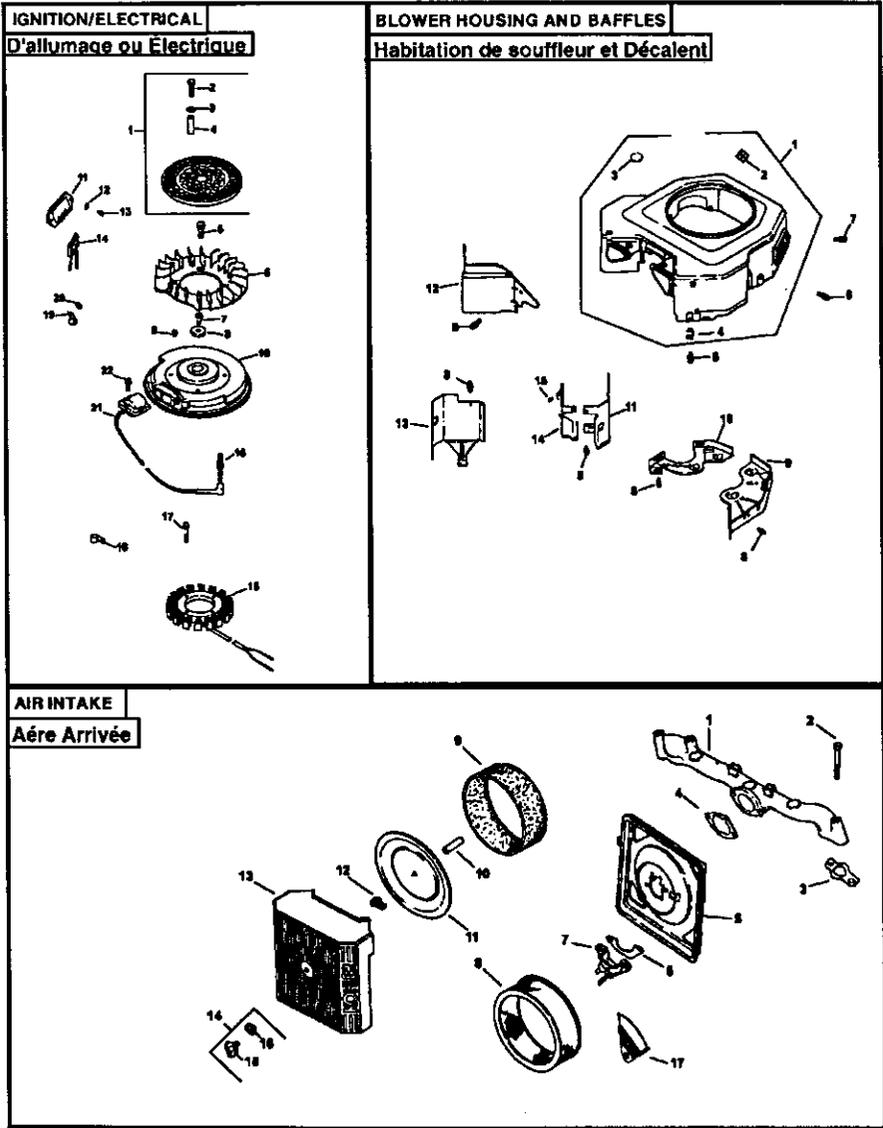
KEY NO.	PART NO.	DESCRIPTION
1	24-033-01-S	Kit, breather cover w/gasket (Includes 2-4)
2	24-041-23-S	Gasket, breather
3	24-096-59-S	Cover, breather
4	25-139-60-S	Plug, allen hd. 1/8"
5	M-645020	Screw, hex. flange M6x1.0x20 (4)
6	25-351-01-S	Lifter, valve (4)
7	24-755-66-S	Kit, valve train (Includes 8,11,12)
8	24-411-05-S	Rod, push (4)
9	24-041-08-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	12-086-16-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-545016-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	25-237-14-S	Clamp, hose (2)

CRANKCASE

KEY NO.	PART NO.	DESCRIPTION
1	24-032-01-S	Seal, oil front
2		Crankcase (USE: Miniblock 24 782 24)
3	24-294-13-S	Fitting
4	24-380-13-S	Pin, dowel locating (6)
5	24-067-13-S	Connecting Rod (Std.) (2)
	24-067-14-S	Connecting Rod (.25) (2)
6	24-874-17-S	Piston w/Ring Set (Std.) (2) (Includes 7, 8)
	24-874-18-S	Piston w/Ring Set (.25) (2)
	24-874-19-S	Piston w/Ring Set (.50) (2)
	24-874-14-S	Piston w/ring set (.08)
7	24-108-11-S	Ring Set (Std.) (2)
	24-108-12-S	Ring Set (.25) (2)
	24-108-13-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	Shim, camshaft (A.R.)
	12-422-10-S	Shim, camshaft
	12-422-11-S	Shim, camshaft (A.R.)
	12-422-12-S	Shim, camshaft (A.R.)
10	24-012-10-S	Camshaft
11	52-139-09-S	Plug, cup
12	M-545010-S	Screw, hex. flange M5x0.8x10 (2)
13	24-018-04-S	Retainer, reed (2)
14	24-402-05-S	Reed, breather (2)
15	12-153-01-S	O-Ring, lower oil fill tube
16	24-126-19-S	Bracket, oil fill tube
17	12-123-04-S	Tube, oil fill
18	M-545016-S	Screw, hex. flange M5x0.8x16
19	12-153-02-S	O-Ring, upper oil fill tube
20	24-038-04-S	Dipstick assembly (Includes 21, 22)
21	24-755-46-S	Kit, oil fill cap (Includes 22)
22	12-153-03-S	O-Ring, dipstick
23	24-018-09-S	Retainer, ring
24	M-931010-S	Washer, nylon (top)
25	28-032-09-S	Seal, governor cross shaft
26	24-468-15-S	Washer (bottom)
27	24-144-33-S	Shaft, governor cross

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

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 KOHLER ENGINE-MODEL NUMBER CV624, TYPE NUMBER 65578**



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IGNITION/CHARGING

KEY PART NO.	NO.	DESCRIPTION
1	54-755-15-S	Kit, grass screen (Includes 2-4, and 24 113 18-S)
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 M6 X1.0 X16 S(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-S)
16	12-132-06-S	Spark Plug (2)
17	M-548025-S	Screw, hex. cap M5x0.8x25 (2)
18	235173-S	Clip, cable
19	48-154-02-S	Clip, cable
20	X-25-63-S	Washer, plain 1/4"
21	24-584-01-S	Module, ignition (2)
22	M-545020-S	Screw, hex. flange M5x0.8x20 (4)
NOT ILLUSTRATED		
--	24-126-71-S	Bracket, stator wire
--	X-22-11-S	Washer, lock 1/4"
--	24-176-82-S	Harness, wiring Lead, black (rect.-reg. 5" - 12 gauge insulated grip barrel eyelets)
--	24-518-12-S	insulated grip barrel eyelets)
--	24-113-18-S	Decal, grass screen
--	25-454-03-S	Tie, wire (3)

BLOWER HOUSING & BAFFLES

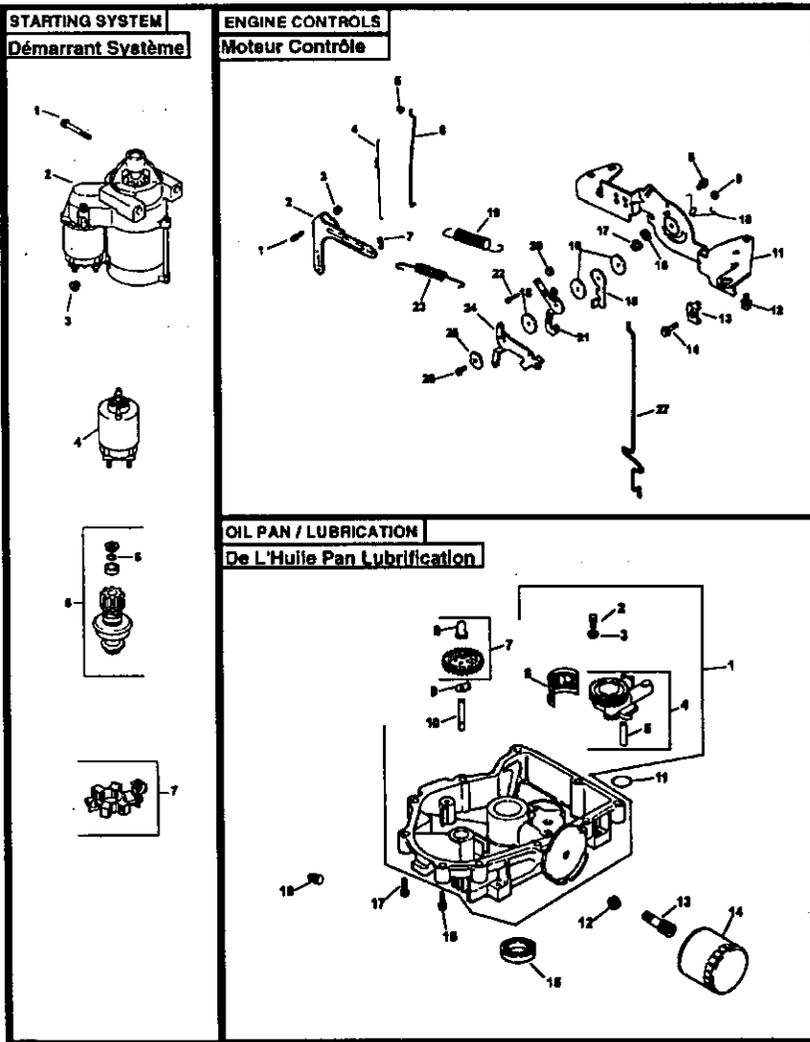
KEY PART NO.	NO.	DESCRIPTION
1	24-027-20-S	Housing, blower (Incl. 2-4)
2	24-100-01-S	Nut plastic (3)
3	25-139-16-S	Plug, button 9/16
4	24-100-02-S	Nut, plastic (2)
5	M-545020-S	Screw, hex. flange M5x0.8x20 (4)
6	M-545016-S	Screw, hex. flange M5x0.8x16 (3)
7	M-551016-S	Screw, hex. flange M5x0.8x16
8	M-645016-S	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	24-063-58-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)

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	24-094-19-S	Base, air cleaner
6	24-041-13-S	Gasket, fuel spitback cup
7	24-109-10-S	Cup, fuel spitback
8	24-083-02-S	Precleaner, element
9	47-083-03-S	Element, air cleaner
10	24-032-03-S	Seal, inner air cleaner
11	24-096-01-S	Cover, inner air cleaner
12	12-100-01-S	Wing Nut
13	24-096-67-S	Cover, air cleaner
14	54-755-01-S	Kit, knob with seal (Includes 15 & 16)
15	24-153-20-S	O-Ring
16	25-341-03-S	Knob, cover
17	24-063-51-S	Baffle, fuel spit-back

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

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STARTING SYSTEM

KEY PART NO. NO.	DESCRIPTION
1 M-839080-S	Screw, hex. flange M8x1.25x80 (2)
2 25-098-08-S	Starter, solenoid shift assembly (Includes 4-7)
3 M-841080-S	Nut, hex. flange
4 25-435-04-S	Kit, solenoid
5 25-755-33-S	Kit, pinion drive (Includes 6)
6 25 141 05-S	Ring
7 25-221-01-S	Kit, brush

ENGINE CONTROLS

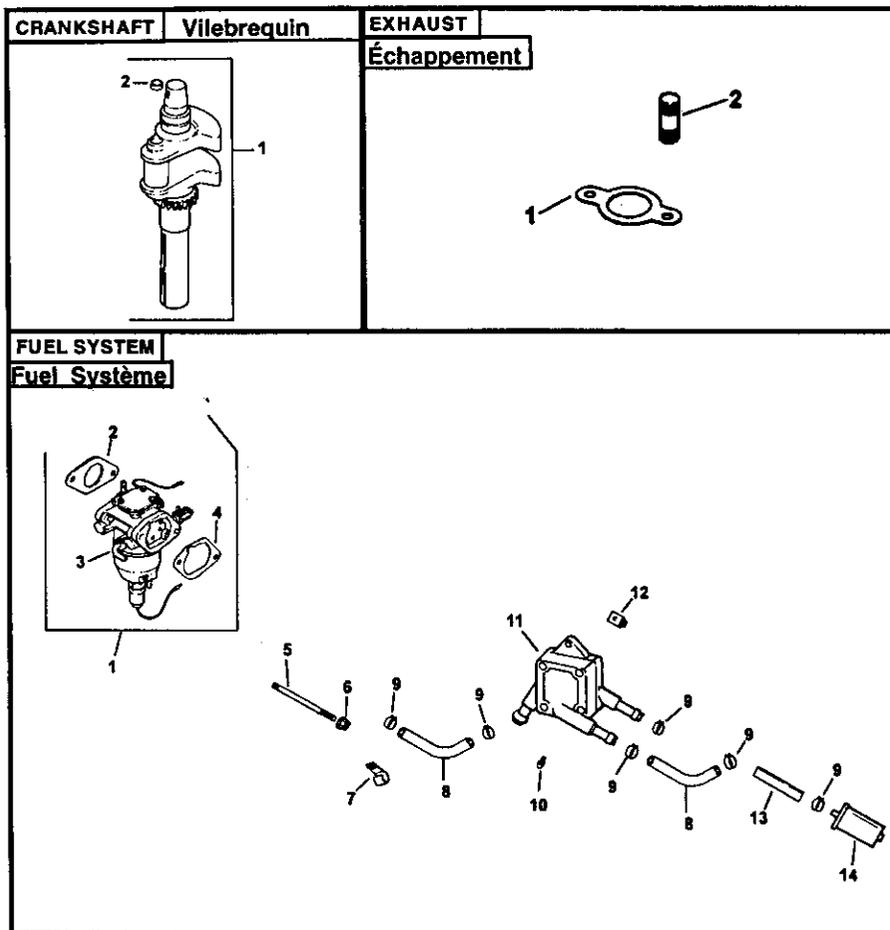
KEY PART NO. NO.	DESCRIPTION
1 24-211-03-S	Bolt, round head square neck
2 24-090-33-S	Lever, governor
3 M-641060-S	Nut, hex. flange M6x1.0
4 24-089-01-S	Spring, linkage
5 25-158-08-S	Bushing, linkage retaining
6 24-079-04-S	Linkage, throttle
7 25-158-11-S	Bushing, throttle linkag
8 M-545016-S	Screw,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

OIL PAN/LUBRICATION

KEY PART NO. NO.	DESCRIPTION
1 24-199-07-S	Pan, oil assembly (Includes 2-10)
2 M-645025-S	Screw, hex. flange M6x1.0x25 (2)
3 M-631005-S	Washer, plain 6 mm (2)
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 25-139-62-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 25-139-57-S	Plug, sq. hd. solid 3/8" N.P.T.F.

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CRANKSHAFT

KEY PART NO.	NO.	DESCRIPTION
1	24-014-42-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)
NOT ILLUSTRATED		
--	PA-65578	Replacement Engine
--	24-522-221	Short Block
--	24-782-24	Miniblock
--	24-755-107-S	Gasket Set

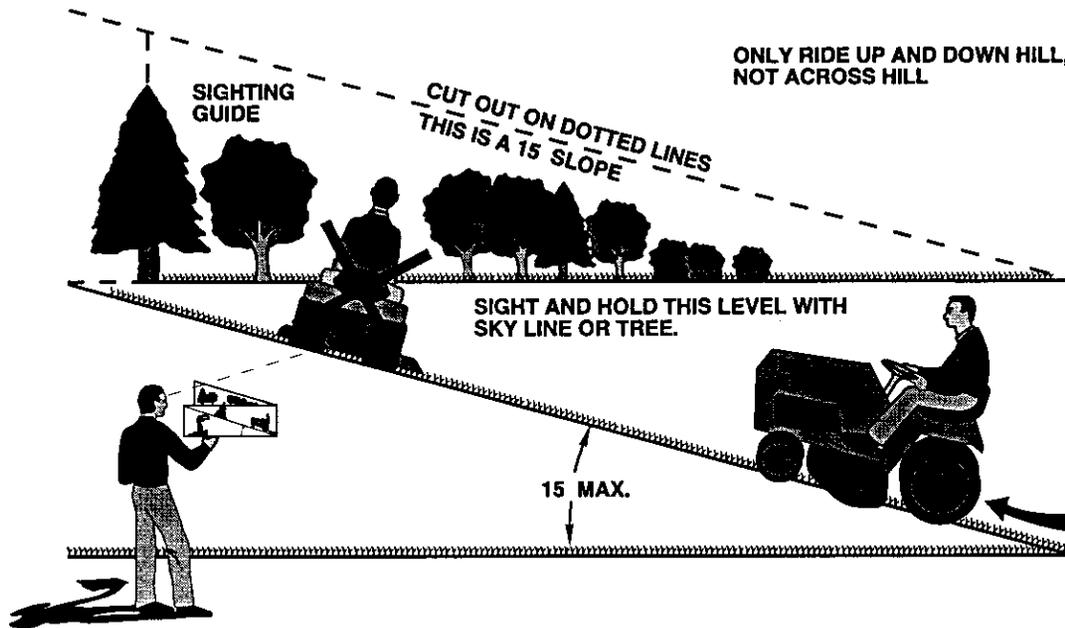
FUEL SYSTEM

KEY PART NO.	NO.	DESCRIPTION
1	24-853-25-S	Kit, carburetor w/gaskets (Includes 2-4)
2	24-041-15-S	Gasket, carburetor
3	24-053-25	Carburetor assembly (For information only not available separately) (Service with kits 24-757-18-S, 24-757-19-S, 24-757-20-S, 24-757-22-S)
4	24-041-14-S	Gasket, air cleaner base
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	24-353-03-S	Line, fuel 10-5/8" (2)
9	25-237-14-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	15-353-04-S	Line, fuel 11-1/2"
14	24-050-02-S	Filter, fuel
NOT ILLUSTRATED		
--	24-757-18-S	Kit, overhaul w/gaskets
--	24-757-19-S	Kit, choke repair w/gaskets
--	24-757-20-S	Kit, gasket
--	24-757-22-S	Kit, solenoid replacement w/gaskets

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

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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