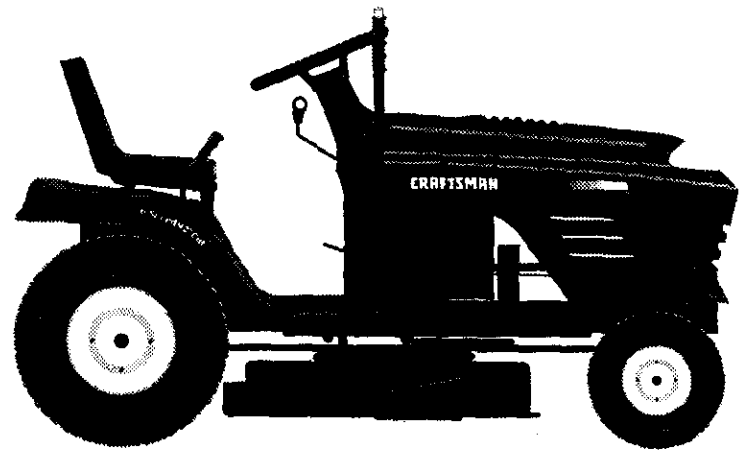
Owner's Manual

CRAFTSMAN®

15.5 HP ELECTRIC START 42" MOWER 6 SPEED TRANSAXLE LAWN TRACTOR

EZ³

Model No.
917.271014



- **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

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.

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners, belts, etc.
- Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge. In-home warranty service on your Craftsman riding equipment is available at no charge for 30 days from the date of purchase. Please contact your nearest service center. After 30 days from the date of purchase, warranty service is available by taking your Craftsman riding equipment to your nearest Sears Service Center. (In-home warranty service will still be available after 30 days from the date of purchase but a standard trip charge will apply). This warranty applies only while this product is in the United States. This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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

SAFETY RULES

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

GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.

SAFETY RULES

- 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.

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.

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.

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.

SAFETY RULES

- 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.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for small children.
- Mow up and down slopes (15° Max), not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.
- *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 AWARE!!! YOUR SAFETY IS INVOLVED.

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

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

PRODUCT SPECIFICATIONS

GASOLINE CAPACITY AND TYPE:	1.25 GALLONS UNLEADED REGULAR
OIL TYPE (API-SF/SG/SH):	SAE 10W-30 (above 32°F) SAE 5W-30 (below 32°F)
OIL CAPACITY:	W/FILTER: 4.0 PINTS W/O FILTER: 3.5 PINTS
SPARK PLUG: (GAP: .040")	Champion RC12YC
VALVE CLEARANCE:	NOT ADJUSTABLE
GROUND SPEED (MPH):	FORWARD: 1ST 1.2 2ND 1.5 3RD 2.3 4TH 3.5 5TH 4.7 6TH 5.4 REVERSE: 1.5
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	3 AMPS BATTERY 5 AMPS HEADLIGHTS
BATTERY:	AMP/HR: 30 MIN. CCA: 240 CASE SIZE: U1R
BLADE BOLT TORQUE:	27–35 FT. LBS.

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

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

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

MAINTENANCE AGREEMENT

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

CUSTOMER RESPONSIBILITIES

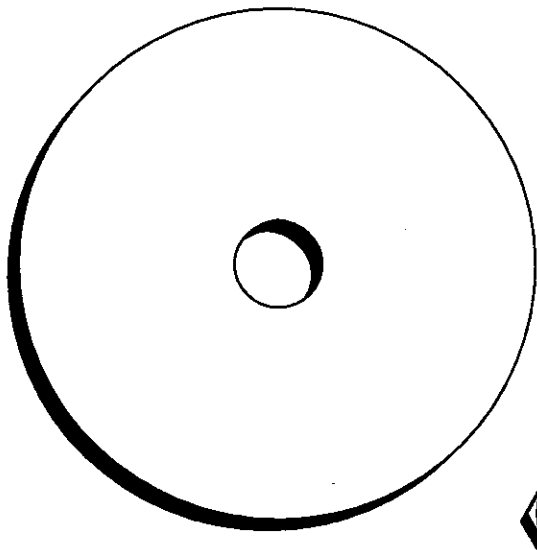
- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.

⚠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 Authorized Service Center (See REPAIR PARTS section of this manual).

CONTENTS OF HARDWARE PACK

Parts Bag contents shown full size

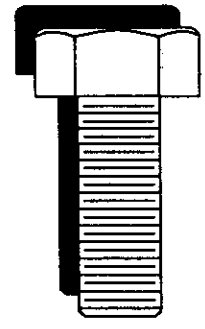


(1) Large Flat Washer

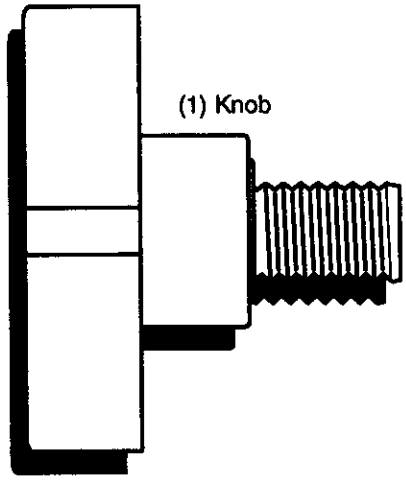
(1) Hex Bolt 5/16-18 x 1-1/4

(1) Lockwasher 3/8

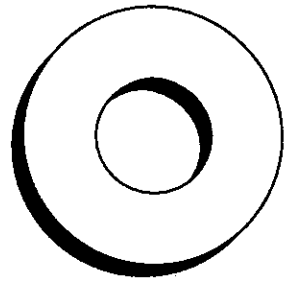
(1) Hex Bolt
3/8-16 x 1



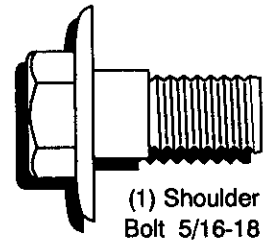
(1) Locknut 5/16-18



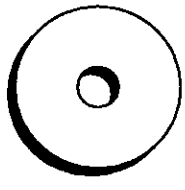
(1) Knob



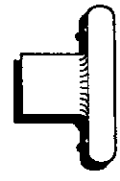
(1) Washer
17/32 x 1-3/16 x 12 Gauge



(1) Shoulder
Bolt 5/16-18

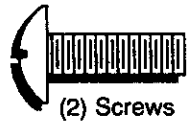


(2) Washers
3/16 x 3/4 x 16 Gauge



(2) Weld
Nuts #10

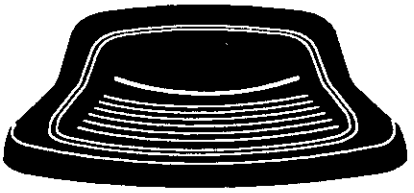
(2) Lock
Washers #10



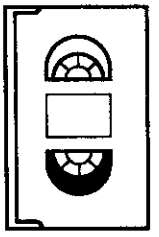
(2) Screws #10 x 5/8

CONTENTS OF HARDWARE PACK

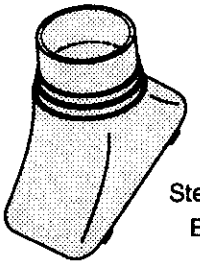
Parts packed separately in carton



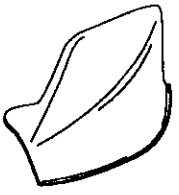
Seat



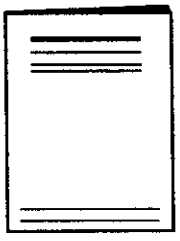
Video Cassette



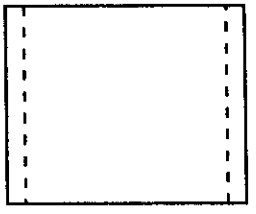
Steering Boot



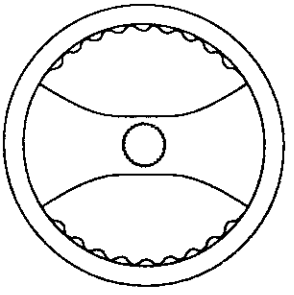
Mulcher Plate



Manual

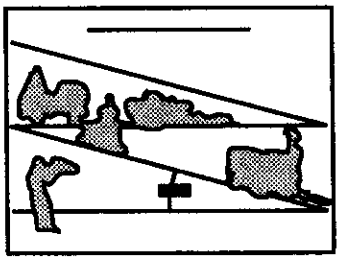


Parts Bag



Steering Wheel

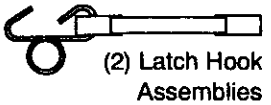
Parts Bag contents not shown full size



Slope Sheet

Steering Extension Shaft

Steering Wheel Insert



(2) Latch Hook Assemblies

Steering Wheel Adapter

(2) Keys

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
(2) 1/2" wrench
(1) Utility knife
(1) Tire pressure gauge
(1) 3/4" Socket w/ drive ratchet
(1) Phillips Screwdriver

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

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

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

BEFORE ROLLING TRACTOR OFF SKID

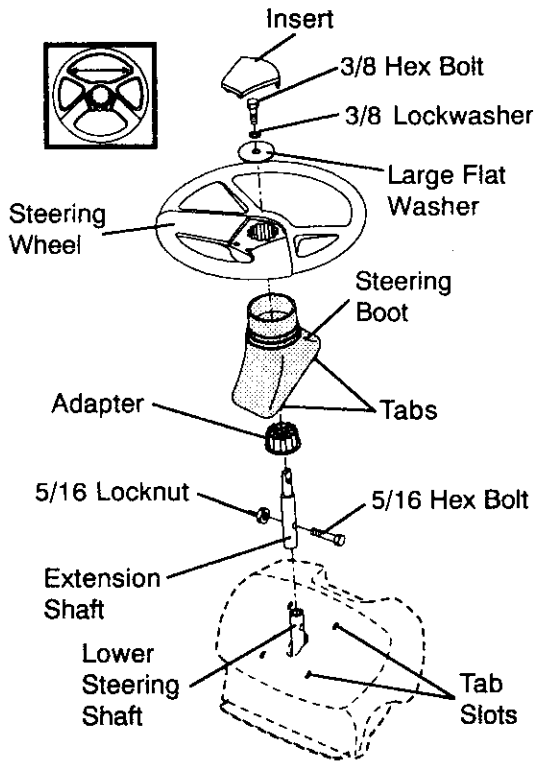
ATTACH STEERING WHEEL

ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft. Align mounting holes in extension and lower shafts and install 5/16 hex bolt and locknut. Tighten securely.

IMPORTANT: Tighten bolt and nut securely to 18-22 ft. lbs. torque.

- Place tabs of steering boot over tab slots in dash and push down to secure.



INSTALL STEERING WHEEL

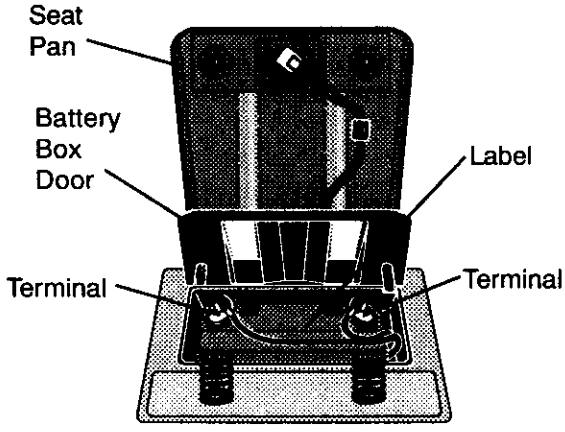
- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering wheel adapter onto steering shaft extension.
- Position steering wheel so cross bars are horizontal (left to right) and slide inside boot and onto adapter.
- Assemble large flat washer, 3/8 lock washer, 3/8 hex bolt and tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective materials from tractor hood and grill.

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

HOW TO SET UP YOUR TRACTOR

CHECK BATTERY

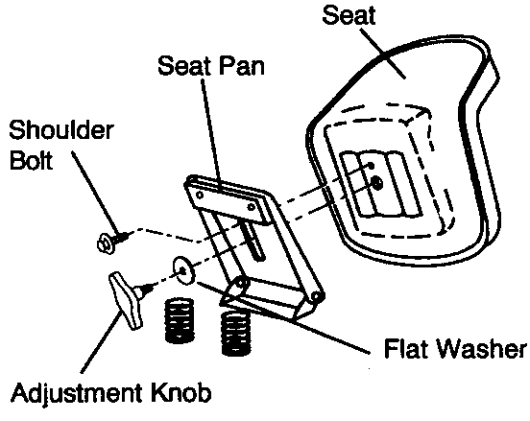
- Lift seat pan to raised position and open battery box door.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps. (See "BATTERY" in MAINTENANCE section of this manual for charging instructions).



INSTALL SEAT

Adjust seat before tightening adjustment knob.

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



TO ROLL TRACTOR OFF SKID (SEE OPERATION SECTION FOR LOCATION AND FUNCTION OF CONTROLS)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- Roll tractor forward off skid.
- Remove banding holding discharge guard up against tractor.

TO DRIVE TRACTOR OFFSKID

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

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

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 DECK LEVELNESS

For best cutting results, mower housing 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 and mower blade drive belts in the Service and Adjustments sectoin of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

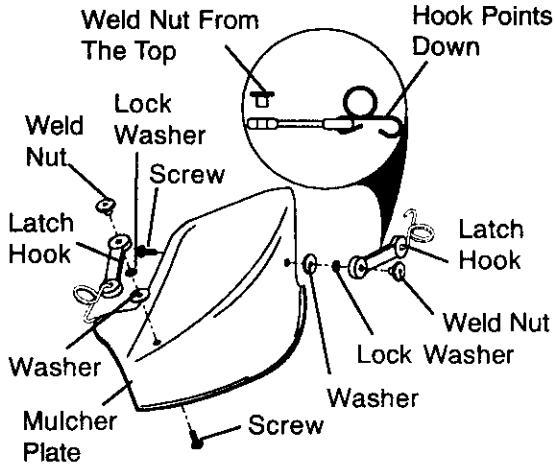
After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

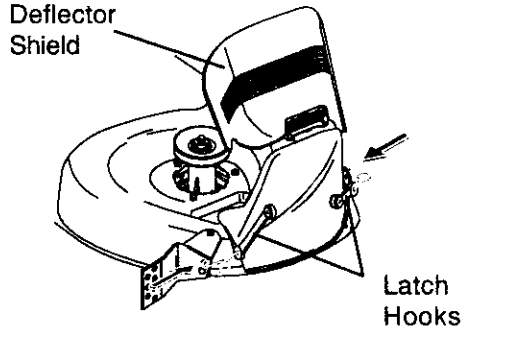
INSTALL MULCHER PLATE

- Install two latch hooks to mulcher plate using screw, washer, lock washer, and weld nut as shown.

NOTE: Pre-assemble weld nut to latch hook by inserting weld nut from the top with hook pointing down.

- Tighten hardware securely.
- Raise and hold deflector shield in upright position.
- Place front of mulcher plate over front of mower deck opening and slide into place, as shown.
- Hook front latch into hole on front of mower deck.
- Hook rear latch into hole on back of mower deck.





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

TO CONVERT TO BAGGING OR DISCHARGING

Simply remove mulcher plate and store in a safe place. Your mower is now ready for discharging or installation of optional grass catcher accessory.

NOTE: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

✓CHECKLIST

Before you operate and enjoy your new tractor, we wish to assure that you receive the best performance and satisfaction from this Quality Product.

Please review the following checklist:

✓ All assembly instructions have been completed.

✓ No remaining loose parts in carton.

✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).

✓ Seat is adjusted comfortably and tightened securely.

✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).

✓ Be sure mower deck is properly leveled side-to-side/front-to-rear for best cutting results. (Tires must be properly inflated for leveling).

✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.

✓ Check wiring. See that all connections are still secure and wires are properly clamped.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

✓ Engine oil is at proper level.

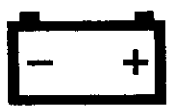
✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.

✓ Become familiar with all controls - their location and function. Operate them before you start the engine.

✓ Be sure brake system is in safe operating condition.

OPERATION

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



BATTERY

CAUTION OR WARNING

REVERSE

FORWARD

FAST

SLOW

ENGINE ON

ENGINE OFF

OIL PRESSURE

LIGHTS ON

OVER TEMP LIGHT

MOWER LIFT

FUEL

CHOKE

MOWER HEIGHT

PARKING BRAKE LOCKED

UNLOCKED

ATTACHMENT CLUTCH ENGAGED

R

REVERSE

N

NEUTRAL

H

HIGH

L

LOW

PARKING BRAKE

IGNITION

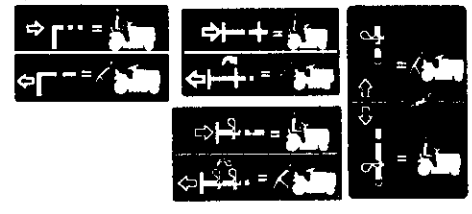
ATTACHMENT CLUTCH DISENGAGED

KEEP AREA CLEAR

SLOPE HAZARDS

(SEE SAFETY RULES SECTION)

DANGER, KEEP HANDS AND FEET AWAY

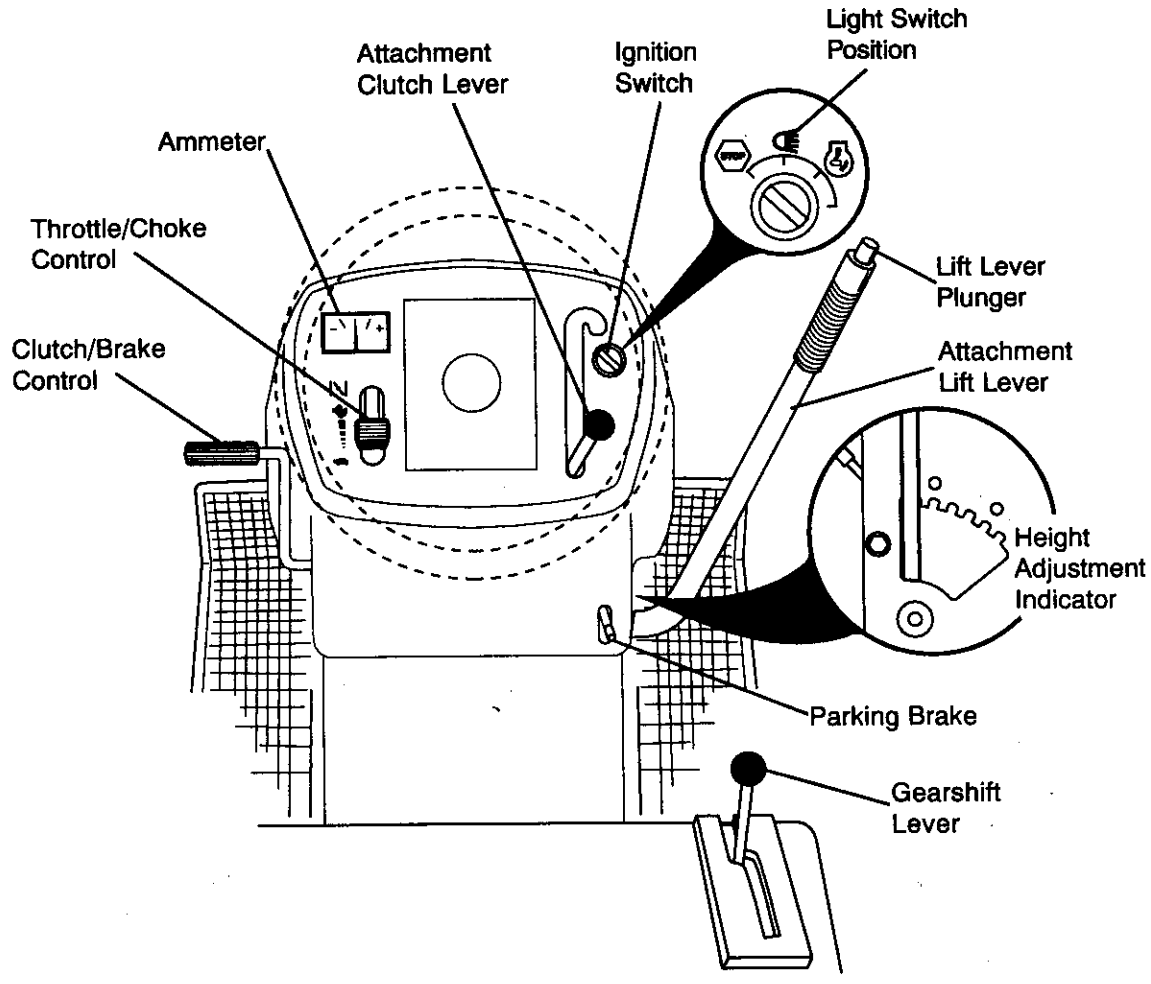


FREE WHEEL
(Automatic Models only)

KNOW YOUR TRACTOR

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

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



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

ATTACHMENT CLUTCH LEVER: Used to engage the mower blades, or other attachments mounted to your tractor.
LIGHT SWITCH: Turns the headlights on and off.
THROTTLE/CHOKE CONTROL: Used to control engine speed.
CLUTCH/BRAKE PEDAL: Used for declutching and braking the tractor and starting the engine.
GEARSHIFT LEVER: Selects the speed and direction of the tractor.

ATTACHMENT LIFT LEVER: Used to raise and lower the mower deck or other attachments mounted to your tractor.
LIFT LEVER PLUNGER: Used to release attachment lift lever when changing its position.
IGNITION SWITCH: Used for starting and stopping the engine.
AMMETER: Indicates battery charging (+) or discharging (-).
PARKING BRAKE: Locks clutch/brake into the brake position.

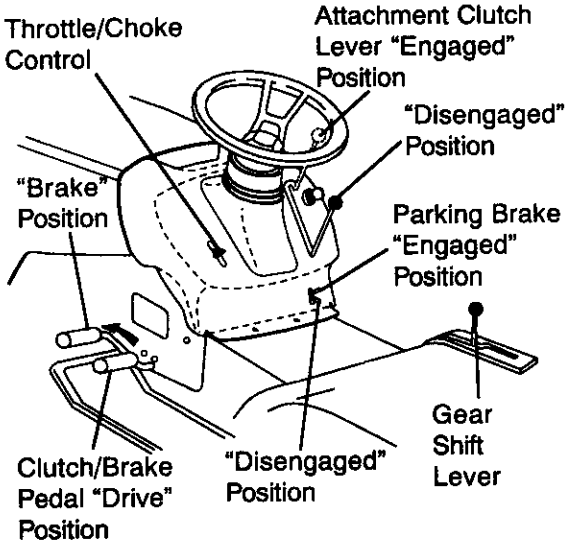
The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles, or standard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

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE

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

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



STOPPING

MOWER BLADES -

- To stop mower blades, move attachment clutch lever 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 MOVE FORWARD AND BACKWARD

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

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift lever to desired position.
- Slowly release clutch/brake pedal to start movement.

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

TO ADJUST MOWER CUTTING HEIGHT

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

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

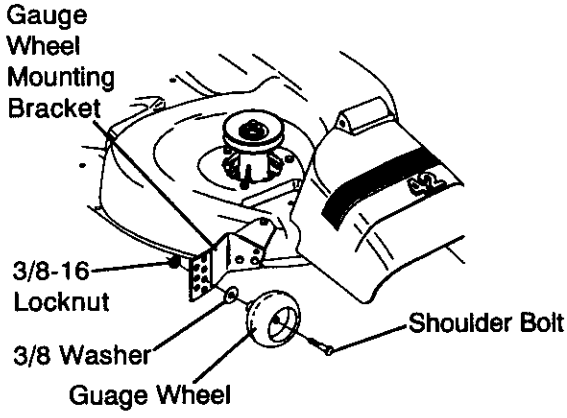
The cutting height range is approximately 1-1/2 to 4". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

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

TO ADJUST GAUGE WHEELS

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

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

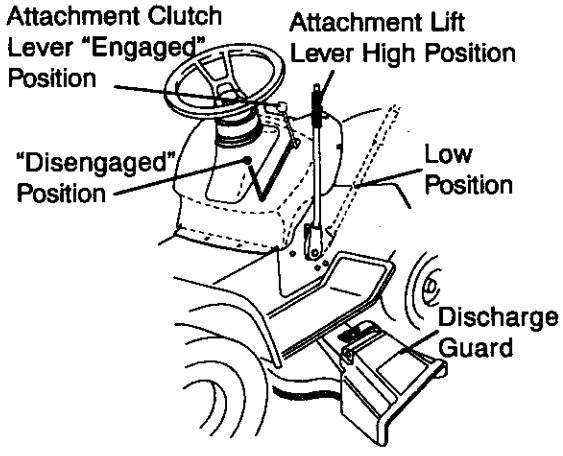


TO OPERATE MOWER

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

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

ADD GASOLINE

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

IMPORTANT: When operating in temperatures below 32°F(0°C), use fresh, clean winter grade gasoline to help insure good cold weather starting.

⚠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.

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to choke position.

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

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

WARM WEATHER STARTING (50° F AND ABOVE)

- When engine starts, move the throttle control to the fast position.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

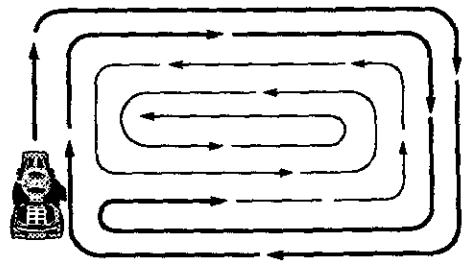
COLD WEATHER STARTING (50° F AND BELOW)

- When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.
- The attachments can also be used during the engine warm-up period.

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

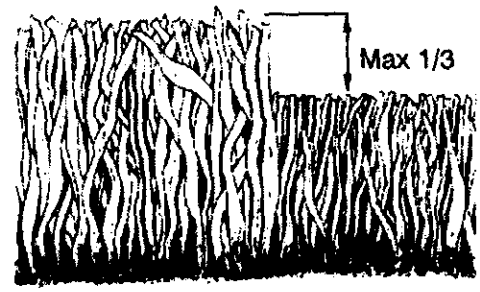
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to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



MULCHING MOWING TIPS

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

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



MAINTENANCE

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE
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	SERVICE DATES
TRACTOR	Check Brake Operation	✔	✔						
	Check Tire Pressure	✔	✔						
	Check Operator Presence and Interlock Systems	✔							
	Check for Loose Fasteners	✔			✔7		✔		
	Sharpen/Replace Mower Blades			✔4					
	Lubrication Chart			✔			✔		
	Check Battery Level			✔6					
	Clean Battery and Terminals			✔			✔		
	Check Transaxle Cooling			✔					
	Adjust Blade Belt(s) Tension				✔5				
	Adjust Motion Drive Belt(s) Tension				✔5				
ENGINE	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.

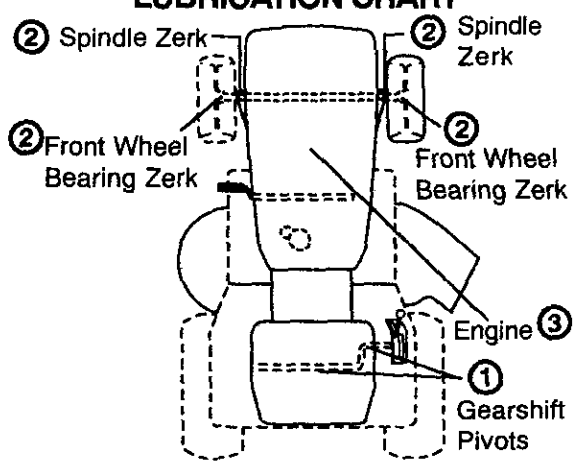
All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- 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



① SAE 30 or 10w30 Motor Ooil
② General Purpose Grease
③ 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 clutch/brake pedal is fully depressed and attachment clutch control is in the disengaged position.
- When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake should shut off the engine.
- When the engine is running and the attachment clutch is engaged, any attempt by the operator to leave the seat should shut off the engine.
- The attachment clutch should never operate unless the operator is in the seat.

BLADE CARE

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

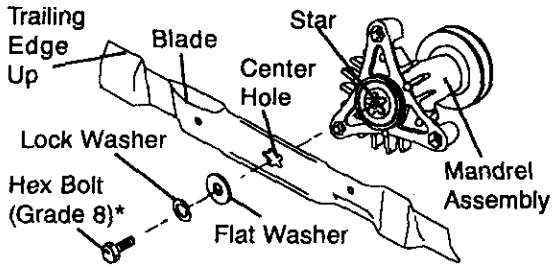
BLADE REMOVAL

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

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

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

IMPORTANT: Blade bolt is grade 8 heat treated.



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

TO SHARPEN BLADE

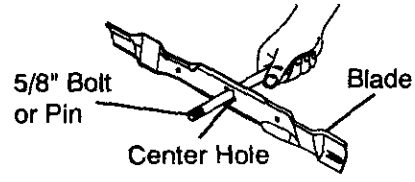
NOTE: We do not recommend sharpening blade but if you do, be sure the blade is balanced.

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

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

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

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



BATTERY

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

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

NOTE: The original equipment battery on your tractor is maintenance free. Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

TO CLEAN BATTERY AND TERMINALS

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

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

V-BELTS

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

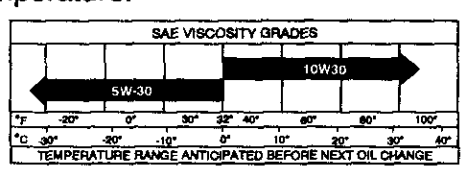
TRANSAXLE COOLING

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, SG, or SH. Select the oil's SAE viscosity grade according to your expected operating temperature.



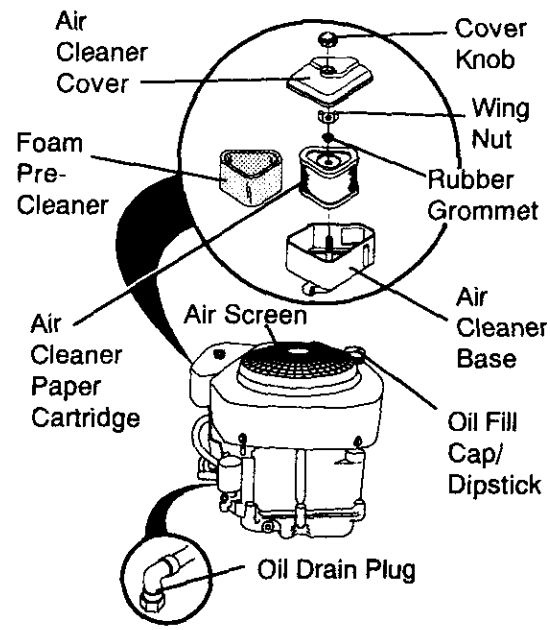
Change the oil after every 50 hours of operation or at least once a year if the tractor is not used for 50 hours in one year.

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

TO CHANGE ENGINE OIL

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

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



CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

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

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

AIR FILTER

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

- Remove knob and cover.
- Remove wing nut and air cleaner from base.

TO SERVICE PRE-CLEANER

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

TO SERVICE CARTRIDGE

- Replace a dirty, bent, or damaged cartridge.

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

- Reinstall the pre-cleaner (cleaned and oiled) over the paper cartridge.
- Reassemble air cleaner, wing nut, cover and tighten knob securely.

MUFFLER

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

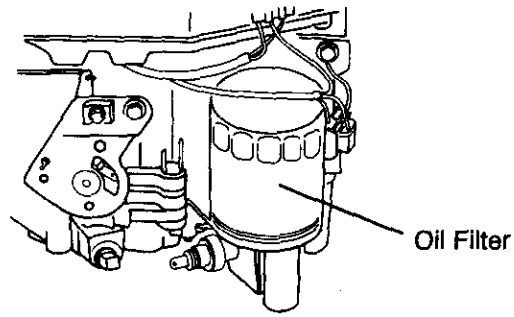
SPARK PLUGS

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.

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.

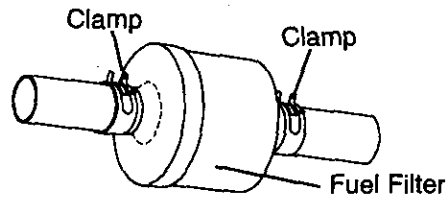
- Drain oil from engine crankcase (See "TO CHANGE ENGINE OIL" in this section of this manual, through step remove drain plug).
- Remove oil filter and wipe off filter adapter.
- Apply a thin coating of new engine oil to the rubber gasket on replacement oil filter.
- Install replacement oil filter on filter adapter. Turn oil filter clockwise until rubber gasket contacts the filter adapter, then tighten filter an additional 1/2 turn.
- Fill crankcase with new oil (See "TO CHANGE ENGINE OIL" in this section of this manual). For approximate capacity see "PRODUCT SPECIFICATIONS" section of this manual.
- Start the engine and check for oil leaks. Correct any leaks before placing engine into full operation.



IN-LINE FUEL FILTER

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

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediatly 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:
- Depress clutch/brake pedal fully and set parking brake.
- Place gearshift lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER

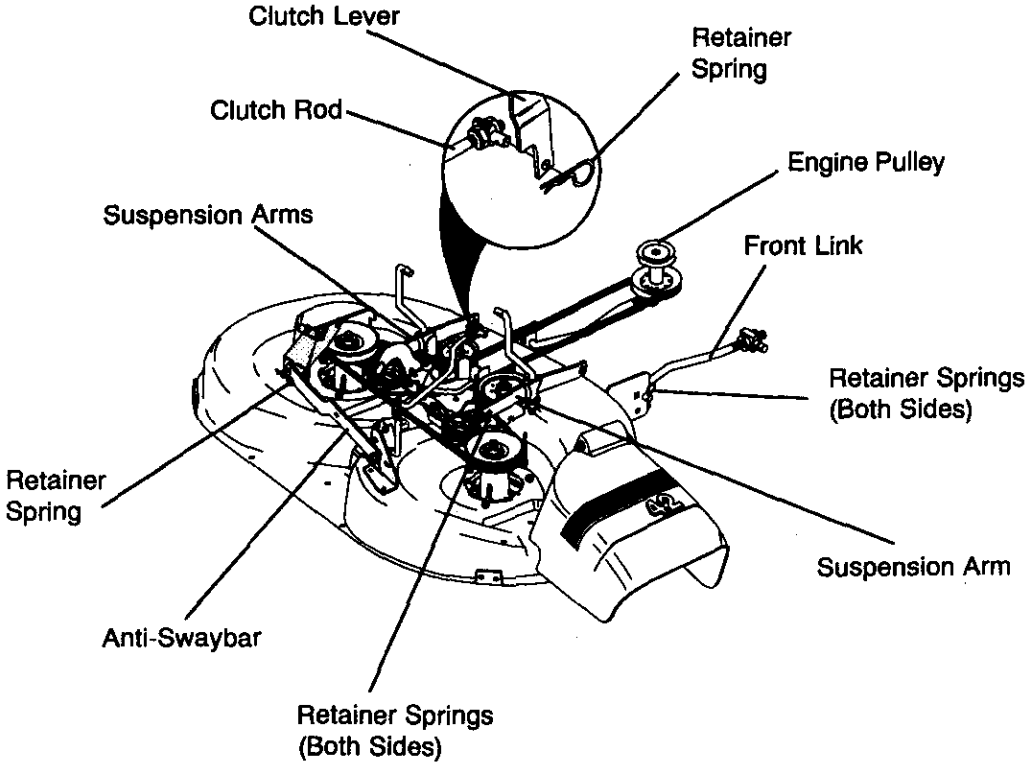
Mower will be easier to remove from the right side of tractor.

- Place attachment clutch in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- Roll belt off engine pulley.
- Disconnect clutch rod from clutch lever by removing retainer spring.
- Disconnect anti-swaybar from chassis bracket by removing retainer spring.
- Disconnect suspension arms from rear deck brackets by removing retainer springs.
- Disconnect front links from deck by removing retainer springs.
- Raise lift lever to raise suspension arms. Slide mower out from under tractor.

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

TO INSTALL MOWER

- Raise attachment lift lever to its highest position.
- Slide mower under tractor with discharge guard to right side of tractor.
- Lower lift lever to its lowest position.
- Install mower in reverse order of removal instructions.



TO LEVEL MOWER HOUSING

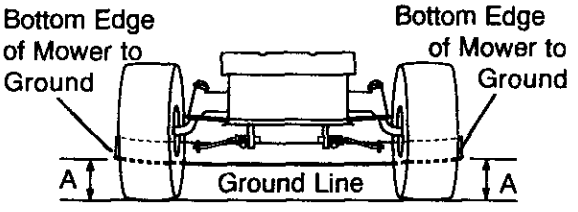
Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS"). If tires are over or underinflated, you will not properly adjust your mower.

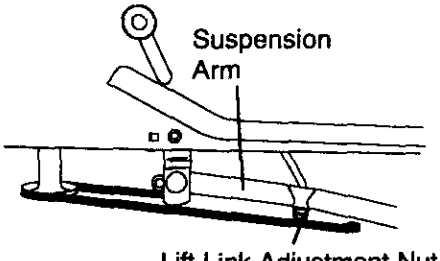
SIDE-TO-SIDE ADJUSTMENT

- 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.





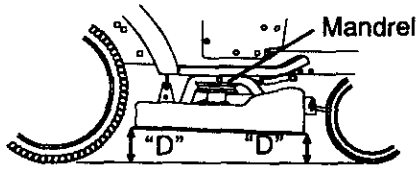
FRONT-TO-BACK ADJUSTMENT

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.

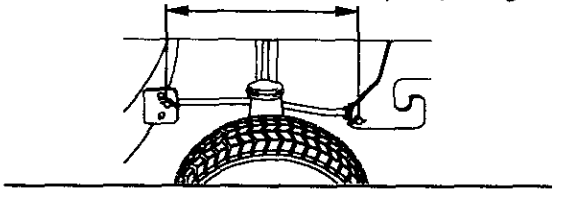
To obtain the best cutting results, the mower housing should be adjusted so that the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest position.

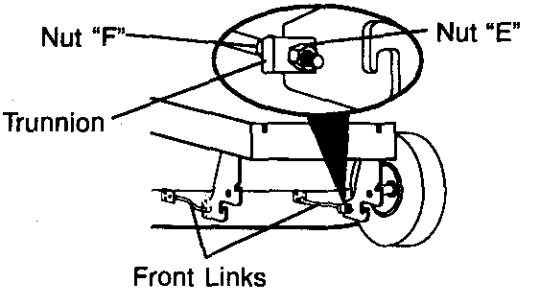
Check adjustment on right side of tractor. Measure distance "D" directly in front and behind the mandrel at bottom edge of mower housing as shown.

- Before making any necessary adjustments, check that both front links are equal in length. Both links should be approximately 10-3/8".
- 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 Should be Equal in Length





Front Links

TO REPLACE MOWER BLADE DRIVE BELT

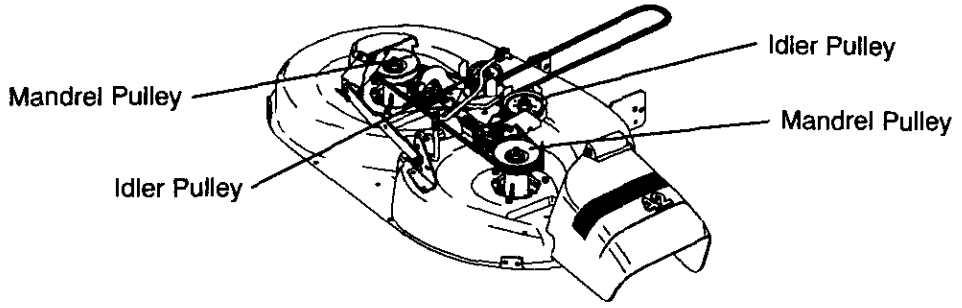
The mower blade drive belt may be replaced without tools. Park the tractor on level surface. Engage parking brake.

BELT REMOVAL -

- Remove mower from tractor (See "TO REMOVE MOWER" in this section of this manual).
- Work belt off both mandrel pulleys and idler pulleys.
- Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install mower in reverse order of removal instructions.

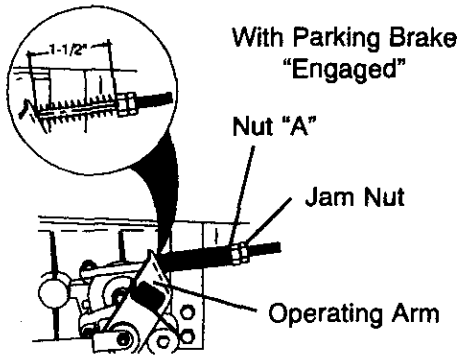


TO ADJUST BRAKE

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

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

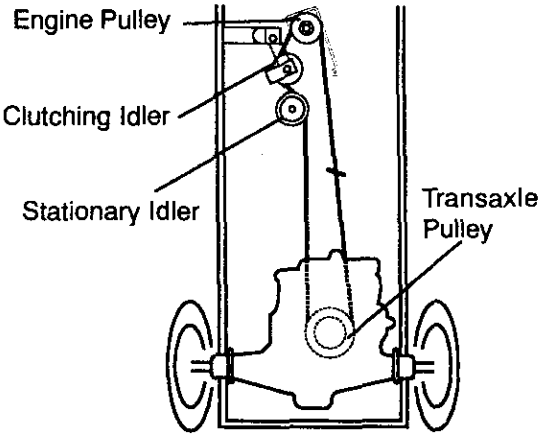
- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Road test tractor for proper stopping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



TO REPLACE MOTION DRIVE BELT

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

- Remove mower (See "TO REMOVE MOWER" in this section of this manual.)
- Remove belt from stationary idler and clutching idler.
- Pull belt slack toward rear of tractor. Remove belt upwards from transaxle pulley by deflecting belt keepers.
- Pull belt toward front of tractor and remove downwards from around engine pulley.
- Install new belt by reversing above procedure.



TRANSAXLE GEAR SHIFT LEVER NEUTRAL ADJUSTMENT

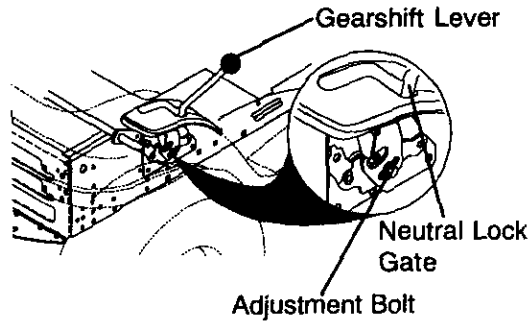
The transaxle should be in neutral when the gear shift lever is in neutral (N) (lock gate) position. The adjustment is preset at the factory; however, if adjustment is needed, proceed as follows:

- Make sure transaxle is in neutral (N).

NOTE: When the tractor rear wheels move freely, the transaxle is in neutral.

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

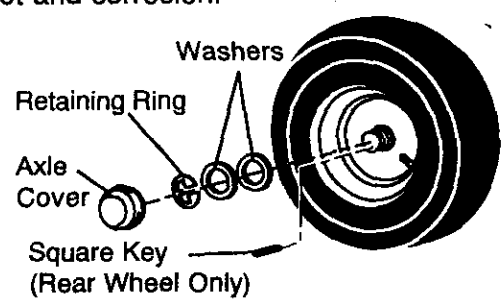
NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.



TO REMOVE WHEEL FOR REPAIRS

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

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



TO START ENGINE WITH A WEAK BATTERY

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

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

If "jumper cables" are used for emergency starting, follow this procedure:

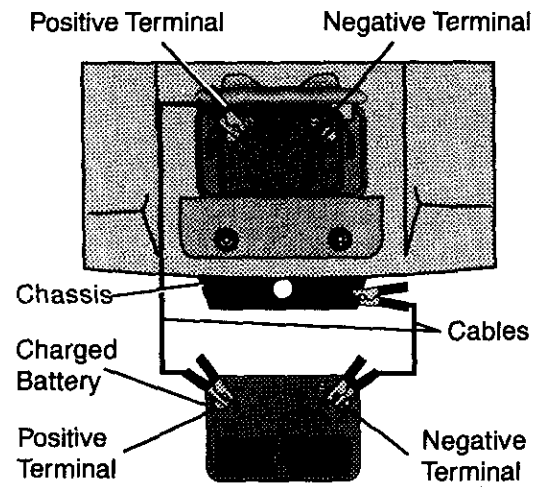
IMPORTANT: Your tractor Is equipped with a 12 volt negative grounded system. The other vehicle must also be a 12 volt negative grounded system. Do not use your tractor battery to start other vehicles.

TO ATTACH JUMPER CABLES -

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

TO REMOVE CABLES, REVERSE ORDER -

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

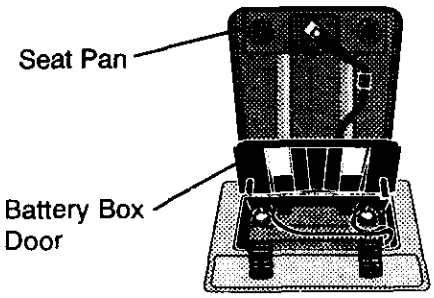


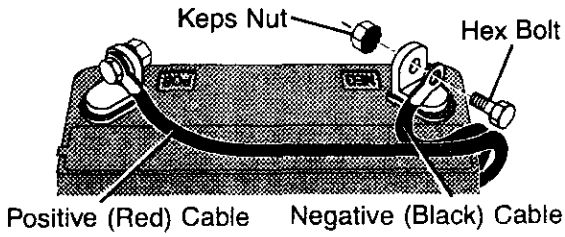
REPLACING BATTERY

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

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

- Lift seat pan to raised position and open battery box door.
- Disconnect BLACK battery cable first then RED battery cable and carefully remove battery from tractor.
- Install new battery with terminals in same position as old battery.
- First connect RED battery cable to positive (+) terminal with hex bolt and keps nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) terminal with remaining hex bolt and keps nut. Tighten securely.
- Close battery box door.





TO REPLACE HEADLIGHT BULB

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

INTERLOCKS AND RELAYS

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

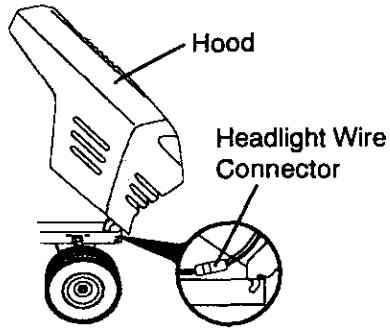
- Check wiring. See electrical wiring diagram in the Repair Parts section.

TO REPLACE FUSE

Replace with 15 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REMOVE HOOD AND GRILL ASSEMBLY

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



ENGINE

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

TO ADJUST THROTTLE CONTROL CABLE

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

- With engine not running, move throttle control lever from slow to choke position. Slowly move lever from choke to fast position.
- Check to see if hole in throttle lever and hole in speed control bracket are aligned.
- If holes are not aligned, loosen cable clamp screw and align the holes by inserting a pencil or a 1/4" drill bit through both holes.
- Pull throttle cable up to remove slack and tighten cable clamp screw. Remove alignment pencil or drill bit.

TO ADJUST CARBURETOR

The carburetor has been preset 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 needle is turned in too tight.

NOTE: The carburetor on this engine is low emission. It is equipped with an idle fuel adjusting needle with a limiter cap, which allows some adjustment within the limits allowed by the cap. Do not attempt to remove the limiter cap. The limiter cap cannot be removed without breaking the adjusting needle.

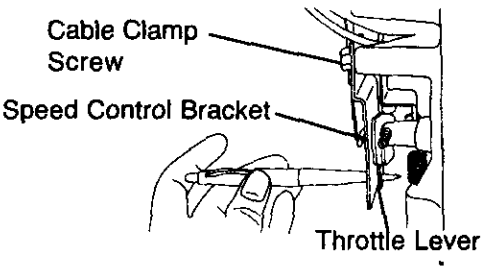
- Be sure you have a clean air filter and the throttle control cable is adjusted properly (see above).
- Start engine and allow to warm for five minutes. Make adjustments with engine running and shift/motion control lever in neutral (N) position.
- Idle speed setting - With throttle control lever in slow position, engine should idle at 1750 RPM. If engine idles too slow or fast, turn idle speed adjusting screw in or out until correct idle is attained.
- Idle fuel needle setting - With throttle control lever in slow position, turn idle fuel adjustment needle in (clockwise) until engine begins to die and then turn out (counterclockwise) until engine runs rough. Turn needle to a point midway between those two positions.
- Recheck idle speed. Readjust if necessary.

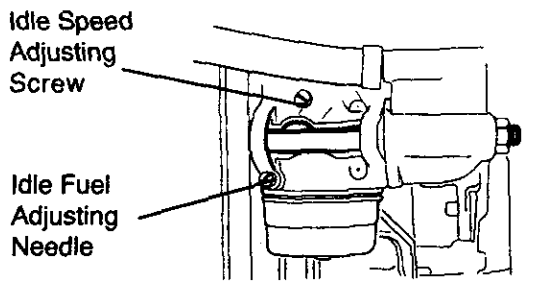
ACCELERATION TEST -

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

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

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





STORAGE

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

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

TRACTOR

Remove mower from tractor for winter storage. This will allow you to clean it thoroughly. Remove all dirt, grease, leaves, etc. Store in a clean, dry area.

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

BATTERY

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

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Also, experience indicates that alcohol blended fuels (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.

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

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

ENGINE OIL

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

CYLINDER(S)

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

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if it 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 cause your tractor to rust.

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

TROUBLESHOOTING CHART

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

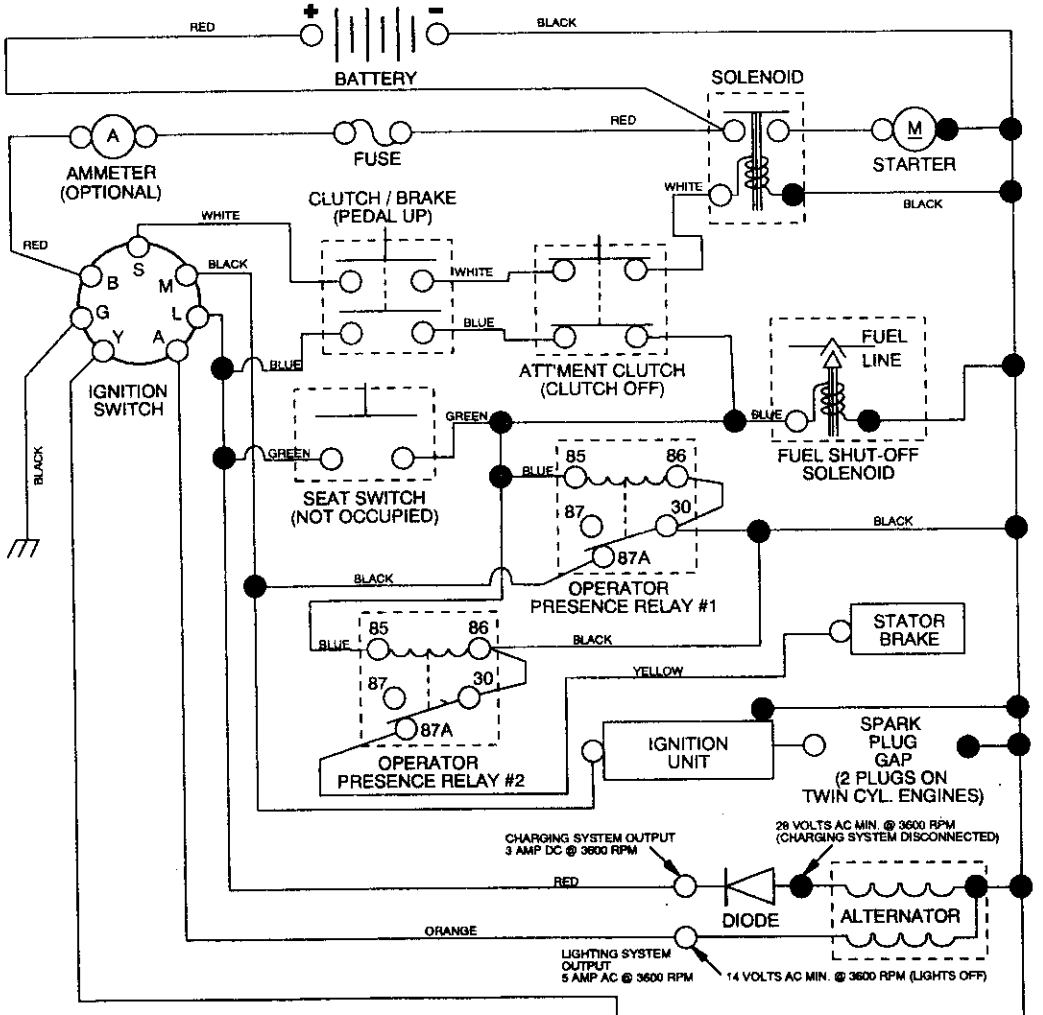
TROUBLESHOOTING CHART

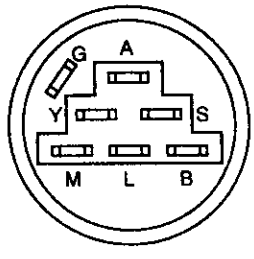
PROBLEM	CAUSE	CORRECTION
Loss of power (cont'd)	• Faulty spark plug.	• Clean and regap or change spark plug.
	• Dirty fuel filter.	• Replace fuel filter.
	• Stale or dirty fuel.	• Drain fuel tank and refill with fresh gasoline.
	• Water in fuel.	• Drain fuel tank and carburetor, refill tank with fresh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

TROUBLESHOOTING CHART

PROBLEM	CAUSE	CORRECTION
Poor grass discharge (cont'd)	• Buildup of grass, leaves and trash under mower. • Mower drive belt worn. • Blades improperly installed. • Improper blades used. • Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	• Clean underside of mower housing. • Replace mower drive belt. • Reinstall blades sharp edge down. • Replace with blades listed in this manual. • Clean around mandrels to open vent holes.
Headlight(s) not working (if so equipped)	• Switch is "OFF". • Bulb(s) burned out. • Faulty light switch. • Loose or damaged wiring. • Blown fuse.	• Turn switch "ON". • Replace bulb(s). • Check/replace light switch. • Check wiring and connections. • Replace fuse.
Battery will not charge	• Bad battery cell(s). • Poor cable connections. • Faulty regulator (if so equipped). • Faulty alternator.	• Replace battery. • Check/clean all connections. • Replace regulator. • Replace alternator.
Engine "backfires" when turning engine "OFF"	• Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine.	• Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.

SCHEMATIC



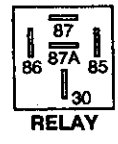


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



RELAY

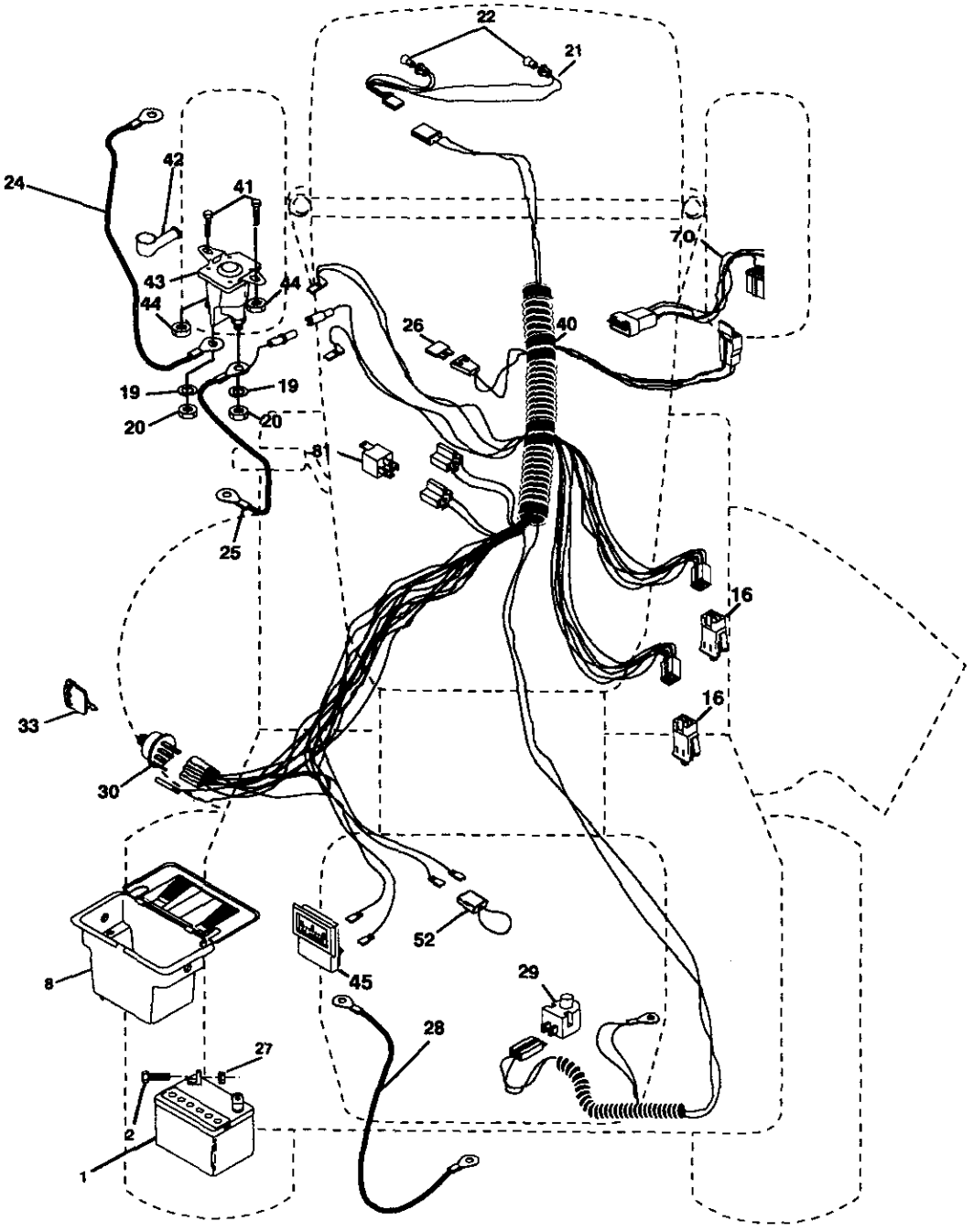
NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

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

ELECTRICAL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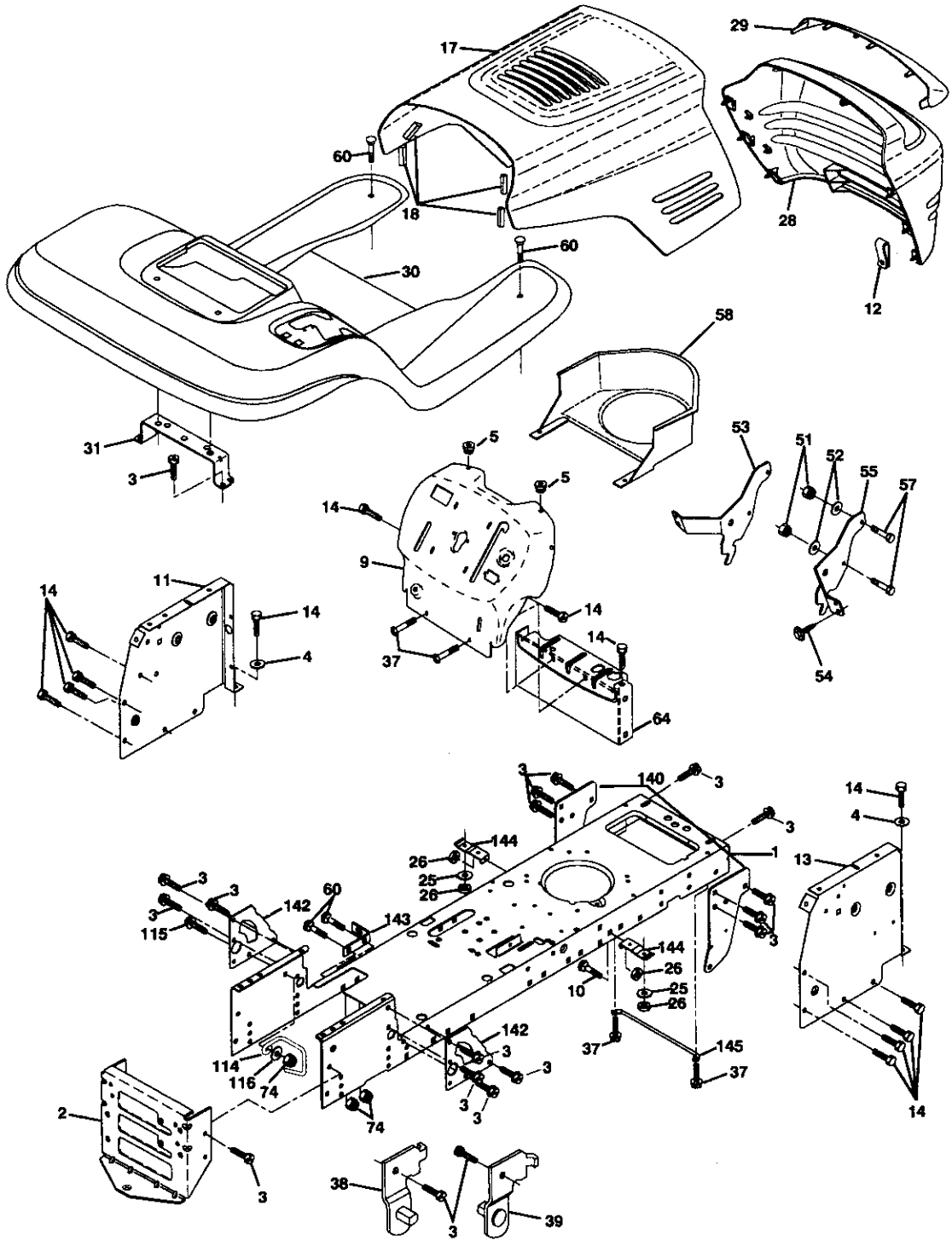
ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	163465	Battery,12 Volt 28 Amp
2	74760412	Bolt, Hex 1/4-20 x 3/4
8	156417	Case, Battery Mech Hinge
16	161343	Switch, Interlock N. OPN./N.OPN
19	STD551125	Washer, Lock 1/4
20	73350400	Nut, Hex, Jam 1/4-20 UNC
21	166182	Harness, Light Socket (w/4152J)
22	4152J	Light Bulb
24	4799J	Cable, Battery, 6 Gauge, Red, 11"
25	146147	Cable, Battery, 6 Gauge, Red, W16 Wire
26	166180	Fuse, 15 Amp
27	73510400	Nut Keps Hex 1/4-20 UNC
28	4207J	Cable, Ground, 6 Gauge, Black, 12"
29	160784	Switch, Plunger Normal OP Olive
30	140301	Switch, Ignition 4 Position
31	124211X	Nut, Ignition
32	141226	Cover, Ignition Switch
33	109310X	Key, Molded, Craftsman
40	166147	Harness, Ignition
41	71110408	Bolt Blk Fin Hex 1/4-20 UNC x 1/2
42	131563	Cover, Terminal
43	145673	Solenoid
44	73640400	Nut,Keps Blk Hex 1/4-20 UNC
45	121433X	Ammeter, Rectangular 15 Amp
52	141940	Protection Wire Loop (Hour Meter)
70	166662	Harness, Engine Kohl Cmd-L
81	109748X	Relay Asm.

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

CHASSIS AND ENCLOSURES



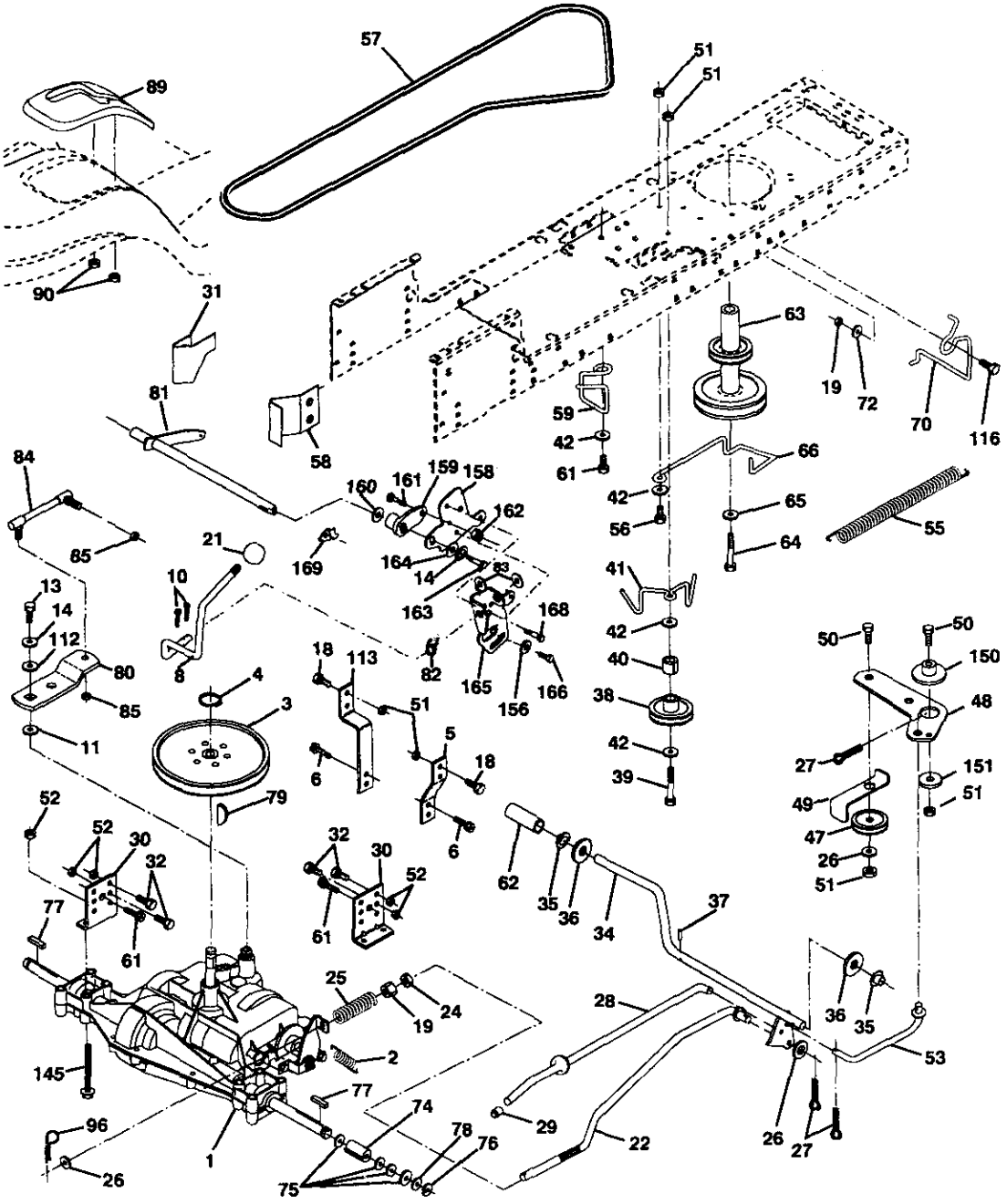
CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION
1	165583	Chassis Assembly
2	140356	Drawbar
3	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
4	19131216	Washer 13/32 x 3/4 x 16 Gauge
5	155272	Bumper Hood/Dash
9	161917X013	Dash
10	STD533710	Bolt, Carriage 3/8-16 x 3/4
11	155927	Panel, Dash, LH
12	145660	Clip Tinnerman Grille P/L
13	155934X010	Panel, Dash, RH
14	17490608	Screw, Thd., Roll. 3/8-16 x 1/2
17	144983X558	Hood Assembly
18	126938X	Bumber Hood
25	19131312	Washer 13/32 x 13/16 x 12 Gauge
26	STD541437	Locknut
28	145198X558	Grille w/Clips MS-558
29	155217X599	Lens, Grille
30	151287X558	Fender/Footrest Pnt STLT N Hold 558
31	139976	Bracket, Fender/Support
37	17490508	Screw Thdrol 5/16-18 x 1/2
38	139886	Pivot Bracket Assembly, LH,
39	139887	Pivot Bracket Assembly, RH,
51	73800400	Nut Lock w/Insert 1/4 - 20 UNC
52	19091416	Washer, 9/32 x 7/8 x 16 Gauge
53	145201	Bracket, Grille Pickoff LH
54	161464	Screw, Hex Wshd #8-18 x 7/8
55	145202	Bracket, Grille Pickoff RH
57	STD552507	Bolt, FinHex 1/4 -20 UNC x .75
58	150127	Duct, Air Engine PL/LT
60	STD533707	Bolt, Rdhd Sqnk 3/8-16 UNC x 3/4
64	154798	Dash, Lower STLT
74	STD541437	Nut, Crownlock 3/8-16 UNC
114	158112	Keeper Belt Rear Lh
115	17490620	Screw Thdrol 3/8-16 x 1-1/4
116	19131614	Washer 13/32 x 1 x 14 Ga.
140	158418	Bracket, Suspension Front
142	165867	Plate, Reinforcement STLT
143	154966	Bracket, Swaybar Chassis
144	154207	Bracket, Footrest STLT
145	156524	Rod Pivot Chassis/Hood
—	5479J	Plug, Button

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

TRACTOR - - MODEL NUMBER 917.271014

GROUND DRIVE

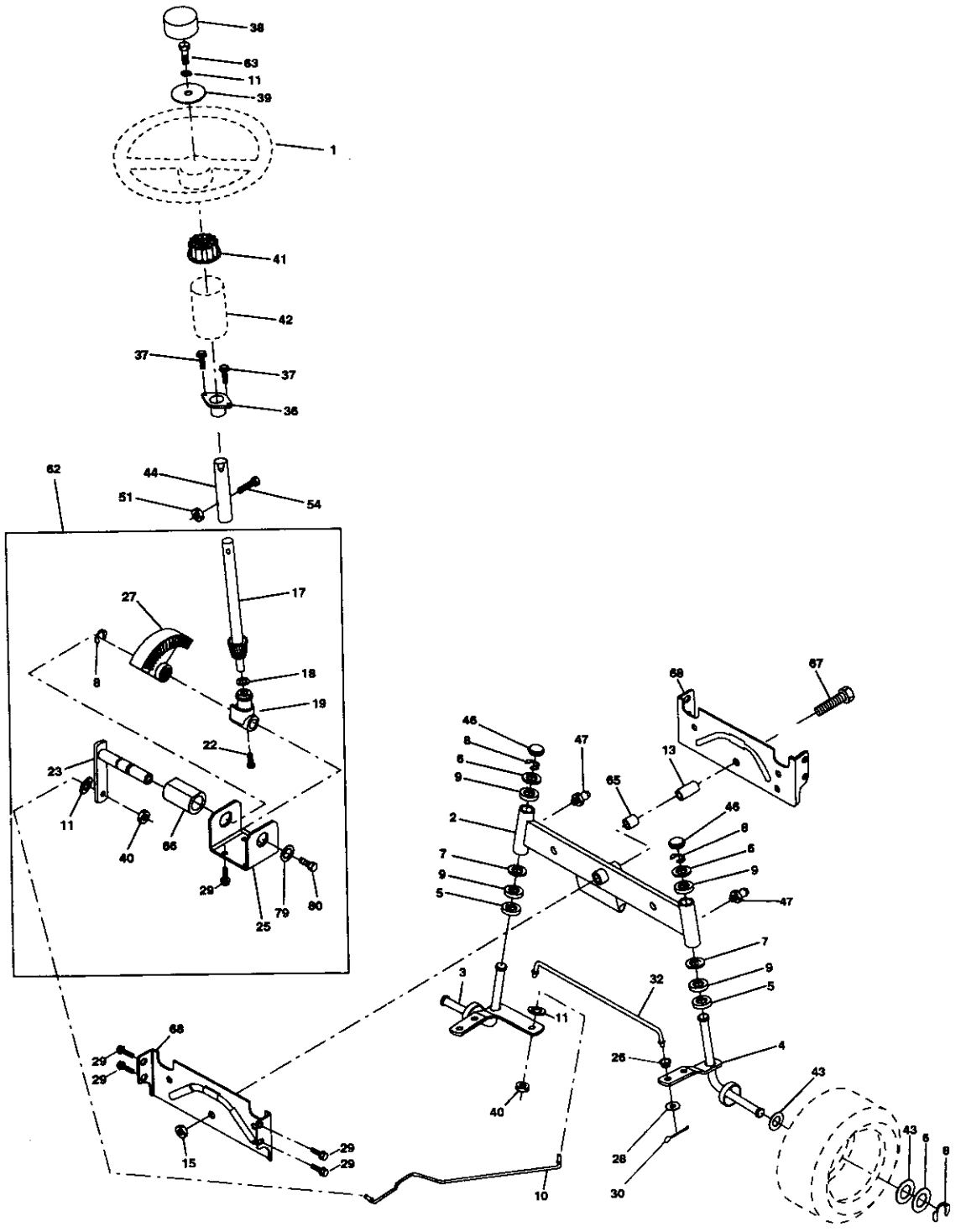


GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION
1	----	Transaxle (See Breakdown) Peerless, Model 206-545C
2	146682	Spring, Return, Brake
3	123666X	Pulley, Transaxle
4	12000028	Ring, Retainer
5	121520X	Strap, Torque
6	17490512	Screw, Thd., Roll. 5/16-18 x 3/4
8	165866	Rod Shifter Fender STLT
10	STD561210	Pin, Cotter
11	105701X	Washer, Shift Plate
13	74550412	Bolt 1/4-28 UNF W/Patch Grade 8
14	STD551125	Washer
18	STD523710	Bolt Fin Hex 3/8-16 UNC x 1. Gr 5
19	STD541437	Nut
21	106933X	Knob
22	130804	Rod, Brake
24	STD541237	Nut
25	106888X	Spring, Brake Rod
26	STD551037	Washer
27	STD561210	Pin
28	145204	Rod, Parking Brake
29	124236X	Cap, Parking Brake, Red
30	130807	Bracket, Transaxle
32	STD523107	Bolt
34	155071	Shaft Assembly, Foot Pedal
35	120183X	Bearing, Nylon
36	STD551062	Washer
37	STD571810	Roll Pin
38	131494	Pulley, Idler, Flat
39	STD523727	Bolt
40	4470J	Spacer, Split .395 x .59
41	165838	Keeper, Belt, Idler
42	19131312	Washer 13/32 x 13/16 x 12 Gauge
47	127783	Pulley, Idler, V-Groove, Plastic
48	154407	Bellcrank Clutch Grnd Drv Stl
49	123205X	Retainer, Belt
50	STD523715	Bolt
51	STD541437	Nut Crown Lock 3/8-16 UNC
52	STD541431	Nut Crown Lock 5/16-18 UNC
53	105710X	Link, Clutch
55	105709X	Spring, Clutch Return
56	STD523712	Bolt Fin Hex 3/8-16 x 1-1/4
57	130801	V-Belt, Ground Drive
59	140312	Keeper, Belt, Center Span
61	17490612	Screw, Thd., Roll. 3/8-16 x 3/4
62	8883R	Cover, Pedal
63	140186	Pulley, Engine
64	71170764	Bolt, Hex Head, Fin. 7/16-20 x 4 Grade 5
65	STD551143	Washer
66	154778	Keeper, Belt, Engine, Fool-Proof
70	134683	Guide, Mower Drive Belt, R.H.
72	19132012	Washer 13/32 x 1-1/4 x 12 Gauge
74	137057	Spacer, Axle
75	121749X	Washer 25/32 x 1-1/4 x 16 Gauge
76	STD581075	E-Ring
77	123583X	Key, Square 2.0 x .1845/.1865
78	121748X	Washer 25/32 x 1-5/8 x 16 Gauge
79	STD580025	Key Woodruff #9 3/16 x 3/4
80	145090	Arm, Shift
81	165592	Shaft Assembly
82	165711	Spring, Torsion
83	19171216	Washer 17/32 x 3/4 x 16 Gauge
84	166231	Link, Transaxle PMST/Dana
85	150360	Nut, Nylock
89	158391X428	Console, Shift, STLT
90	124346X	Nut, Self-Threading, Washer Hd 1/4
96	STD624003	Retainer Spring 1"
112	19091210	Washer 9/32 x 3/4 x 10 Gauge
113	127285X	Strap Torque 90 Degrees
116	72110610	Bolt Rdhd Sqneck 3/8-16 x 1.25
145	74490540	Bolt, Hex Flghd 5/16-18 Gr. 5
150	165850	Bushing Bellcrank Grd Drive
151	19133210	Washer 13/32 x 2 x 10 Ga.
156	166002	Washer SRRTD 5/16 ID x 1 x .125 TK
158	165589	Bracket Shift Mount
159	165494	Hub Tappered Flanged Shift LT
160	19292016	Washer 29/32 x 1-1/4 x 16 Ga.
161	72140406	Bolt RdHd Sqnk 1/4-20 x 3/4 Gr. 5
162	73680400	Nut Crownlock 1/4-20 Unc
163	74780416	Bolt Hex Fin 1/4-20 Unc x 1 Gr. 5
164	19091010	Washer 5/8 x .281 x 10 Ga.
166	166880	Screw 5/16-18 x 5/8 TT Yellow
168	165492	Bolt Shoulder 5/16-18 x.561 TT
169	165580	Plate Fastening
170	165849	Keeper Belt Transaxle Gear

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

STEERING ASSEMBLY

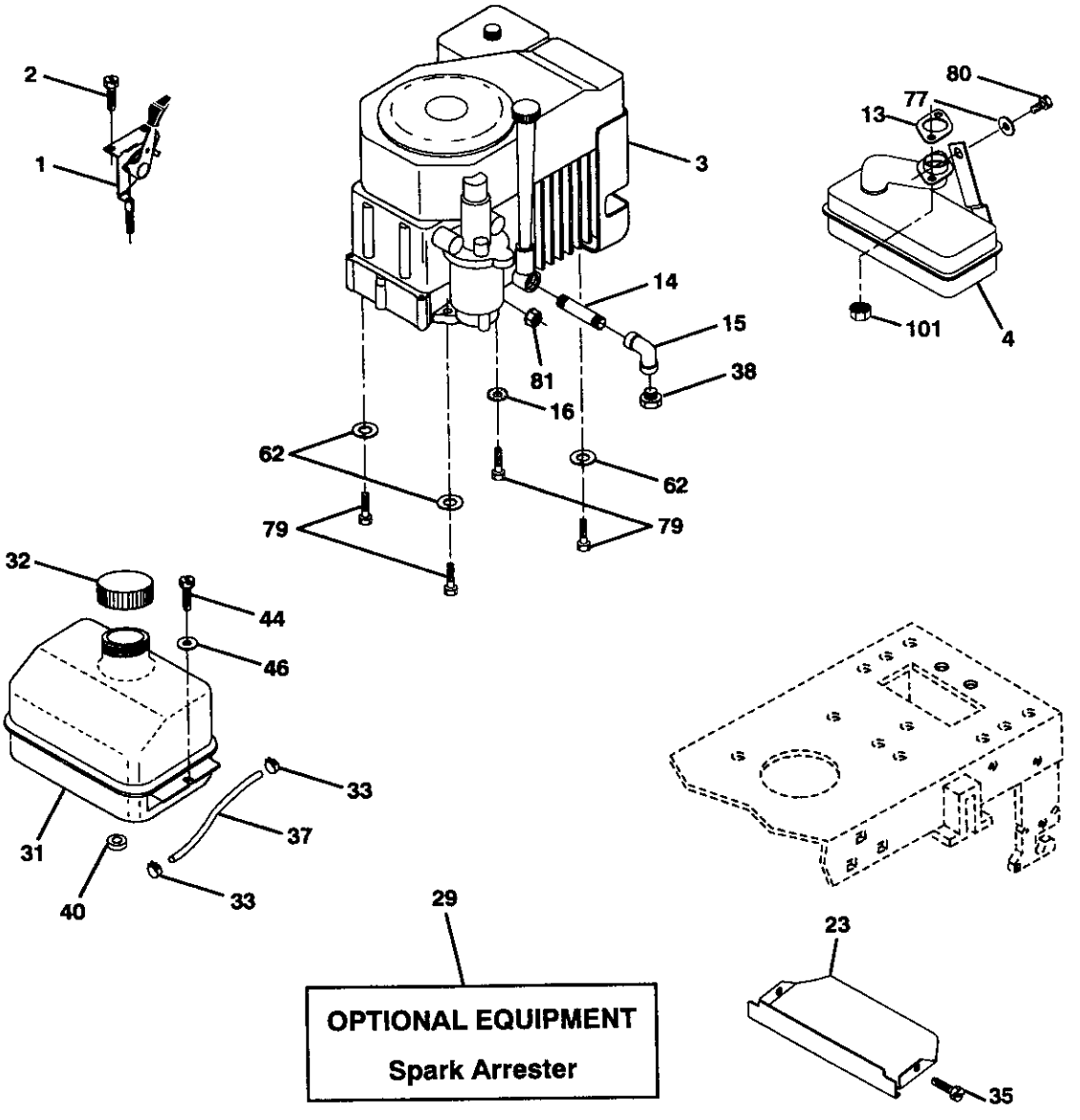


STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	139768	Wheel, Steering
2	154427	Axle, Asm Front
3	156483	Spindle, Asm Lh
4	157473	Spindle, Asm Rh
5	6266H	Bearing, Race Thrust Harden
6	121748X	Washer, 25/32 x 1 5/8 x 16ga
7	19272016	Washer, 27/32 x 1 1/4 x 16 Ga
8	12000029	Ring, Klip #t5304-75
9	3366R	Bearing, Col Strg Blk
10	156438	Draglink, Extended Stamped
11	STD551137	Washer, Lock Hvy Hlcl Spr 3/8
13	154779	Bearing, Axle STLT/GT
15	73901000	Locknut, Flange 5/8-11 UNC
17	156546	Shaft, Asm Strg Private Label
18	57079	Washer, Thrust 515 x 750 x 033
19	160395	Support, Shaft
22	165857	Screw Hex Wshhd Torx
23	165851	Shaft, Asm Pittman
25	154406	Bracket, Steering
26	126847X	Bushing, Rod Tie Blk Lt
27	136874	Gear, Sector
28	19131416	Washer, 13/32 x 7/8 x 16ga
29	17490612	Screw, Thdrol 3/8-16x3/4 Ty-tt
30	STD561210	Pin, Cotter 1/8 x 3/4 Cad
32	130465	Rod, Tie Wire Form 19 75 Mech
36	155099	Bushing, Strg 5/8 Id Dash
37	152927	Screw, TT #10-32 x 5 x 3/8 Flange
38	139769	Insert, Steering Wheel
39	19133808	Washer, 13/32 x 2-3/8 x 8 Gauge
40	STD541537	Gripco Nut
41	100711L	Adaptor, Wheel Strg
42	145054	Boot Shaft Steering
43	121749X	Washer, 25/32 x 1-1/4 x 16 Gauge
44	153720	Extension, Steering Non-Adjust
46	121232X	Cap, Spindle Fr Top Blk
47	6855M	Fitting, Grease
51	STD541431	Nut Lock Hex w/Ins 5/16 -18 UNC
54	74780520	Bolt Fin Hex 5/16 - 18 UNC x 1 -1/4
62	167902	Kit, Steering Assembly
63	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5
65	154780	Spacer, Axle
66	154404	Bearing, Arm Pittman
67	74781044	Bolt, Fin Hex 5/8-11 UNC x 2-3/4
68	154429	Axle, Brace
79	19132012	Washer 13/32 x 1-1/4 x 12 Ga.
80	74950612	Bolt Hex Nylon 3/8-16 x 3/4

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

ENGINE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OPTIONAL EQUIPMENT
Spark Arrester

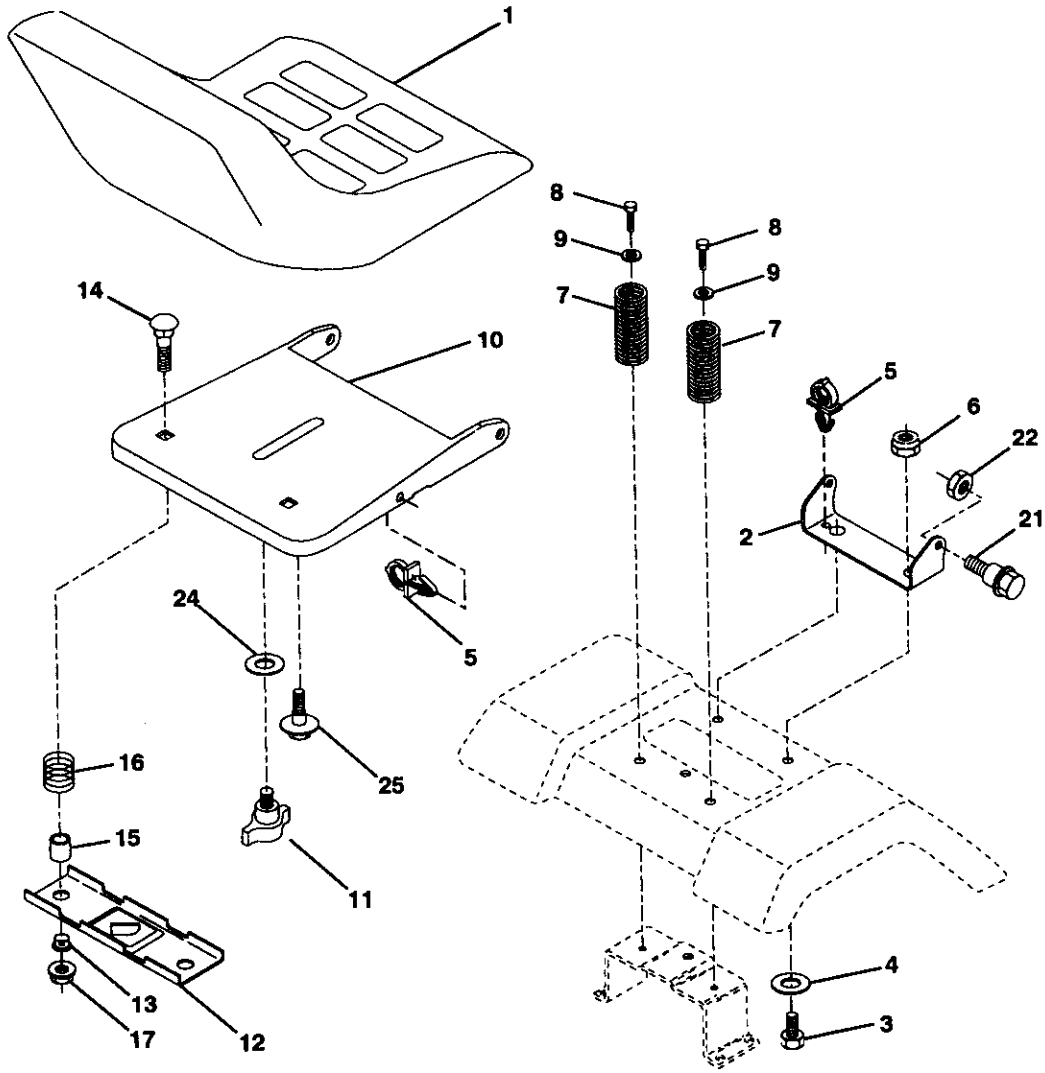
TRACTOR - - MODEL NUMBER 917.271014

ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	162156	Control, Throt / Ch
2	17720410	Screw, Hex Thd Cut 1/4-20x5/8 T
3	- - - - - - -	Engine (See Breakdown) Kohler Model CV15S-41567
4	159420	Muffler
13	12-041-03	Gasket Kohler CV13-CV16.5
14	13280328	Nipple, Pipe 3/8 NPT x 3-1/2
15	13200300	Elbow, Std 90 Degree 3/8-18 Npt
16	STD551231	Washer
23	159880	Shield, BRN/DBR Guard
29	137180	Arrestor, Spark
31	109202X	Tank, Fuel
32	158990	Cap Assembly, Fuel Tank, Vented
33	123487X	Clamp, Hose Blk
35	17490512	Screw, Thdrol 5/16-18 x 3/4 TYT
37	137040	Line Fuel
38	- - - - - - -	Plug Oil Drain (See Engine Breakdown)
40	124028X	Bushing, Snap, Fuel Line
44	17490412	Screw, Hex Washer Head, Thd. Roll. 1/4-20 x 3/4
46	19091416	Washer, 9/32 x 7/8 x 16 Gauge
62	STD551131	Washer, Lock
77	19101216	Washer 5/16 x 3/4 x 16 Gauge
79	M740108025	Bolt, Hex
80	74760508	Bolt, Hex Hd 5/16-18 UNC x 1/2
81	128861	Nut, Flange 1/4-20 Starter Nut
101	M73030800	Nut Flange M8-1.25 Non-Lk Zinc

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

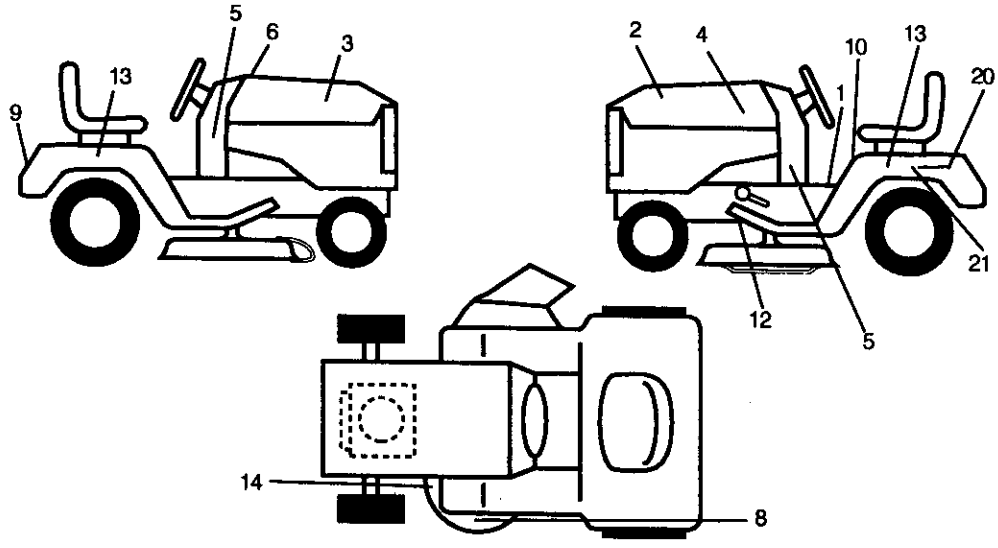
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION
1	140123	Seat
2	140551	Bracket, Pivot, Seat
3	STD523710	Bolt
4	19131610	Washer 13/32 x 1 x 10 Gauge
5	145006	Clip, Push-In Hinged
6	STD541437	Nut
7	124181X	Spring, Seat
8	17490616	Screw, Thd., Roll. 3/8-16 x 1
9	19131614	Washer 13/32 x 1 x 14 Gauge
10	155925	Pan, Seat Emboss QCK Conn.
11	166369	Knob Seat Adj Wingnut
12	121246X	Bracket, Switch Mounting
13	121248X	Bushing, Snap
14	72050412	Bolt, Carriage 1/4-20 x 1-1/2
15	134300	Spacer, Split .28 x .96
16	121250X	Spring
17	123976X	Locknut, Flange 1/4 Grade 5
21	153236	Bolt, Shoulder 5/16-18 UNC
22	STD541431	Nut
24	19171912	Washer 17/32 x 1-3/16 x 12 Gauge
25	127018X	Bolt, Shoulder 5/16-18 x .62

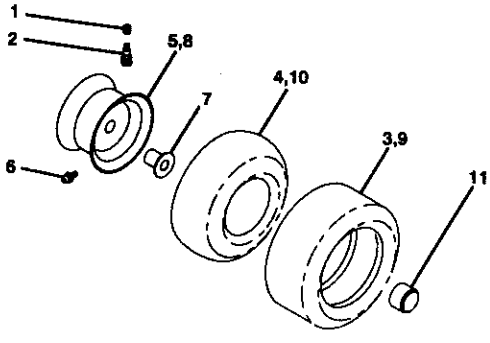
NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

DECALS



KEY NO.	PART NO.	DESCRIPTION
1	156368	Decal, Oper. Instr.
3	163200	Decal, Hood, R.H.
2	168354	Decal, Replacement Parts Sears 9G
4	163202	Decal, Hood, L.H.
5	163261	Decal, Dash Pnl Kohler 15.5 OHV
6	133644	Decal, Customer Maintenance
8	166887	Decal, Deck Mower EZ3
9	163204	Decal, Fender, Craftsman
10	156439	Decal, Fender Danger
12	146046	Decal, V-Belt Drive Schematic
13	163207	Decal, Fend Sd Wht Rad/6sp 42
14	160396	Decal, V-Belt Schematic
20	149516	Decal Battery Dngr/Psn Eng
21	138047	Decal, Battery Diehard Sears
- -	138311	Decal, Lift Handle
- -	154515	Pad Footrest LH STLT
- -	154516	Pad Footrest RH STLT
- -	168358	Owner's Manual, English
- -	168359	Owner's Manual, Spanish

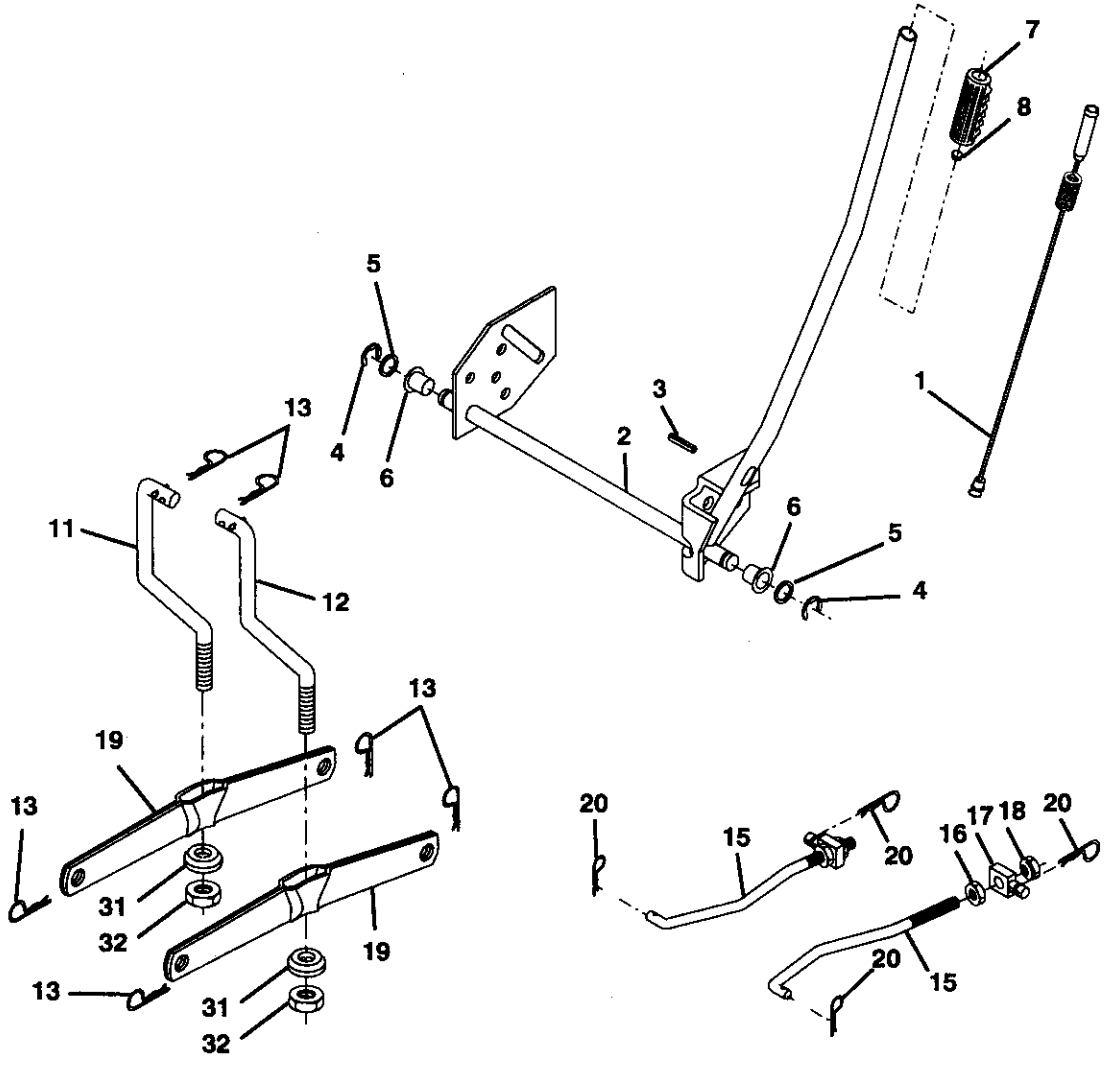
WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	59192	Valve Cap, Tire
2	65139	Stem, Valve
3	106222X	Tire, Front
4	59904	Tube, Front Tire (Not Provided, Service Item Only)
5	106732X427	Rim, Front
6	278H	Fitting, Grease (Front Wheel Only)
7	9040H	Bearing, Flange (Front Wheel Only)
8	106108X427	Rim, Rear
9	122082X	Tire, Rear
10	7152J	Tube, Rear Tire (Not Provided, Service Item Only)
11	104757X	Cap, Axle
- -	144334	Sealant, Tire 10 oz.

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

LIFT ASSEMBLY

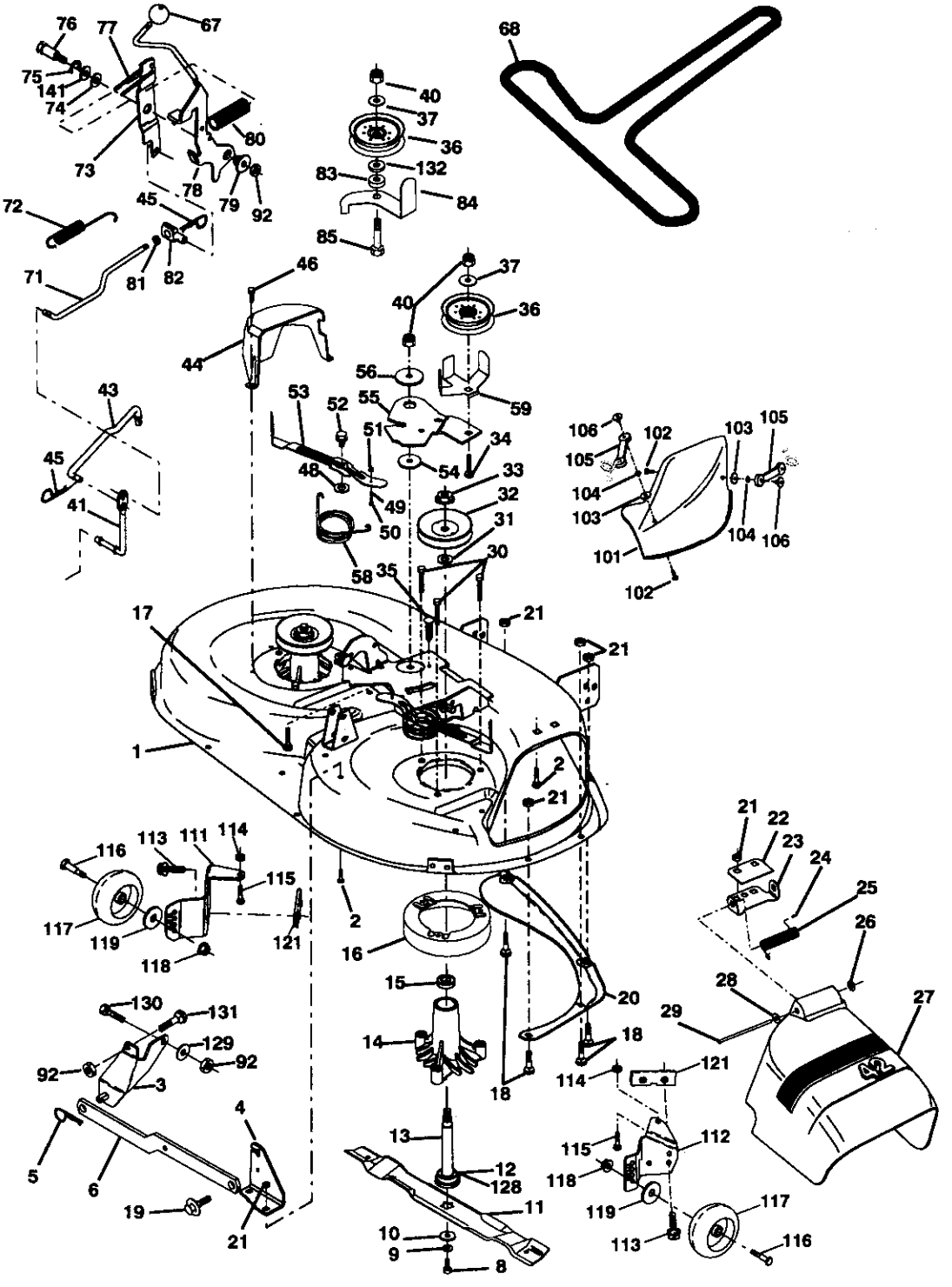


LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	159460	Wire Asm Inner/Sprg w/Plunger LT
2	159471	Shaft Asm. Lift
3	105767X	Pin Groove
4	12000002	E Ring #5133-62
5	19211621	Washer 21/32 x 1 x 21 Ga.
6	120183X	Bearing Nylon
7	125631X	Grip Handle Fluted
8	122365X	Button Plunger Red
11	139865	Link Lift Lh Fixed Length
12	139866	Link Lift Rh Fixed Length
13	STD624008	Retainer Spring
15	127218	Link Front
16	73350800	Nut Jam Hex 1/2-13 Unc
17	130171	Trunnion Blk Zinc
18	73680800	Nut Crownlock 1/2-13 Unc
19	139868	Arm, Suspension Rear
20	163552	Retainer Spring
31	140302	Bearing, Pivot, Lift Spherical
32	73540600	Nut, Crownlock 3/8-24

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

MOWER DECK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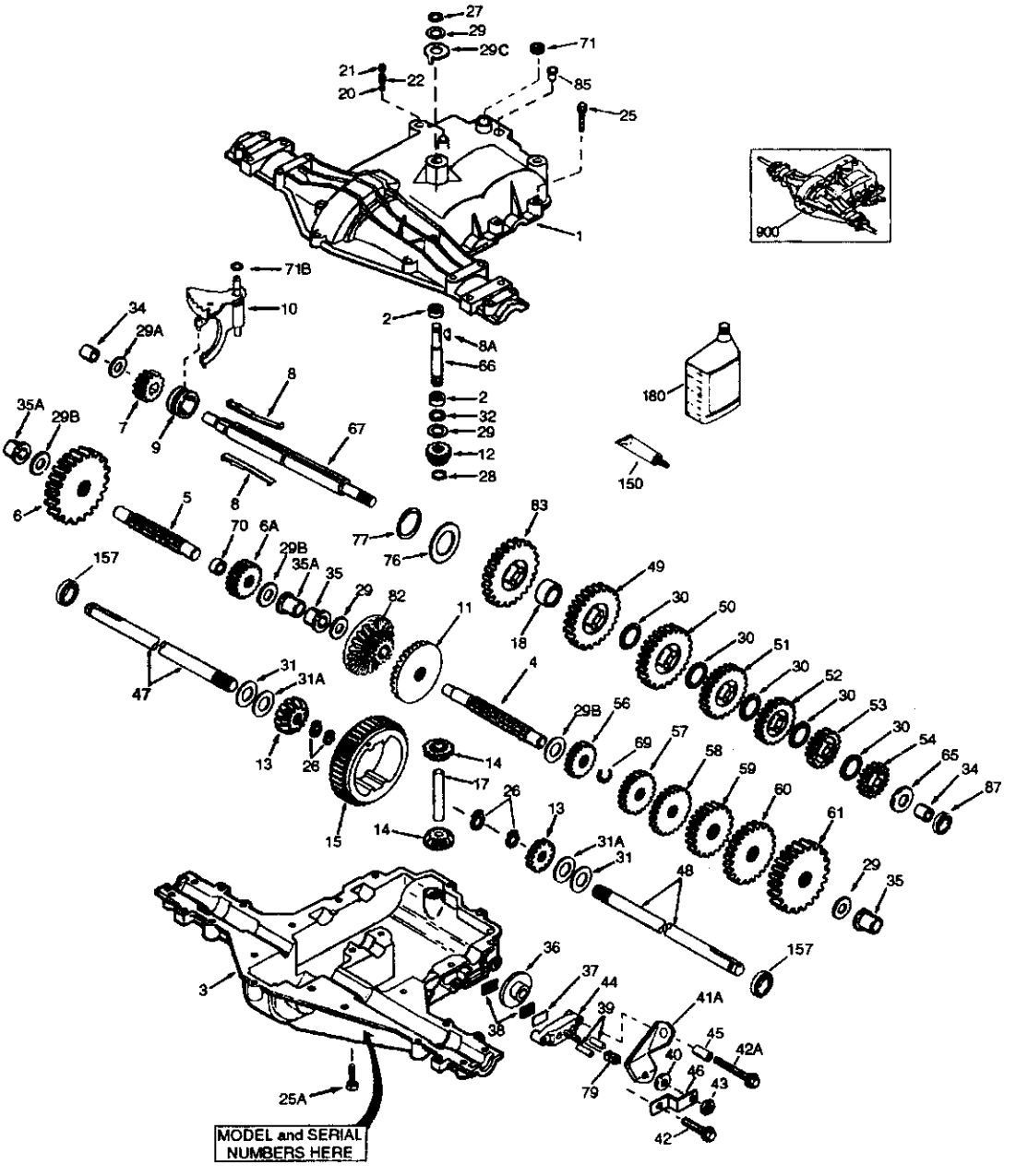
MOWER DECK

KEY NO.	PART NO.	DESCRIPTION
1	164961	Mower Housing
2	STD533107	Bolt
3	138017	Bracket Assembly,Sway Bar, Front
4	138440	Bracket Assembly, Sway Bar
5	STD624008	Retainer Spring
6	130832	Arm, Suspension, Rear
8	850857	Bolt, Hex 3/8-24 x 1.25 Gr.8
9	STD551137	Washer, Lock
10	140296	Washer, Hardened
11	134149	Blade, Mulching
12	129895	Bearing, Ball
13	137645	Shaft Assembly, Mandrel, Vented (Includes Key No. 6)
14	128774	Housing, Mandrel, Vented
15	110485X	Bearing, Ball, Mandrel
16	140329	Stripper, Vented Mower Deck
17	72110610	Bolt, Carriage 3/8-16 x 1-1/4
18	STD533106	Bolt, Carriage 5/16-18 x 5/8
19	132827	Bolt, Shoulder
20	159770	Baffle, Vortex
21	STD541431	Nut Crownlock 5/16-18 UNC
22	134753	Stiffener Bracket
23	131267	Bracket, Deflector
24	105304X	Cap, Sleeve
25	123713X	Spring, Torsion, Deflector
26	110452X	Nut, Push
27	130968	Shield, Deflector
28	19111016	Washer 11/32 x 5/8 x 16 Ga.
29	131491	Rod, Hinge
30	157722	Screw Thdrol Washer Head
31	129963	Washer, Spacer
32	153535	Pulley, Mandrel
33	137266	Nut, Toplock, Flanged
34	STD533717	Bolt
35	133835	Fastner, Christmas Tree
36	131494	Pulley, Idler, Flat
37	STD551037	Washer 13/32 x 13/16 x 16 Ga.
40	STD541437	Nut Crownlock 3/8-16 UNC
41	133551	Rod, Pivot, with Nibs
43	140083	Rod, Clutch, Secondary, w/Nibs
44	140088	Guard, Mandrel, L.H.
45	STD624003	Retainer
46	137729	Screw, Thd. Roll 1/4-20 x 5/8
48	133944	Washer, Hardened
49	155066	Roller Assembly, Cam Follower
50	131340	Bolt, Shoulder #10-24 Grade 5
51	STD541410	Locknut
52	139888	Bolt, Shoulder 5/16-18 UNC
53	131845	Arm Assembly, Pad, Brake
54	133943	Washer, Hardened
55	155046	Arm, Idler
56	122052X	Spacer, Retainer
58	140086	Spring, Torsion Brakes
59	141043	Guard, TUV Idler
67	162113	Knob Custom Oval
68	144200	V-Belt
71	142427	Rod, Clutch, Primary, with Nibs
72	131870	Spring, Return
73	127847	Arm, Clutch, Secondary
74	121748X	Washer 25/32 x 1-5/8 x 16 Ga.
75	12000029	Ring, Klip
76	128903	Bolt, Shoulder 3/8-16 UNC x 1.44
77	127845	Keeper, Spring
78	160570	Lever Asm. Clutch Pri Plm STLT
79	127498	Bushing, Large, Brass
80	153701	Spring, Mower Clutch
81	STD541237	Nut, Hex Jam 3/8-16 Unc
82	142028	Trunnion, Adj.
83	120958X	Washer Sintered
84	156084	Keeper Belt Idler
85	72140620	Bolt Carriage 3/8-16 x 2-1/2
92	STD541437	Nut
101	136420	Mulcher Cover
102	71161010	Screw
103	19061216	Washer #10
104	STD551110	Washer, Lock
105	160793	Latch Assembly, Bagger
106	2029J	Nut, Weld
111	155197	Bracket, Gauge, Wheel L.H.
112	155198	Bracket, Gauge, Wheel R.H.
113	1749052	Screw Thdrol 5/16-18 x 3/4
114	STD541431	Nut, Hex, Keps 5/16-18 UNC
115	72110504	Bolt, Carriage 5/16 UNC x 1/2
116	4898H	Bolt, Shoulder
117	165746	Wheel, Gauge
118	73930600	Nut, Centerlock 3/8-16
119	STD551037	Washer 3/8 x 7/8 x 14 Gauge
121	143723	Bracket
128	153390	Washer Felt
129	19131312	Washer 13/32 x 13/16 x 12 Ga.
130	STD523710	Bolt, Fin Hex 3/8-16 UNC x 1 Gr. 5
131	STD533710	Bolt, RDHD SQNK 3/8-16 UNC x 1
132	19132203	Spacer, Washer 13/32 I.D. x 1-3/8 O.D. x 1/4
141	6266H	Washer Thrust .75 x 1.230
- -	130794	Mandrel Assembly (Includes Key Numbers 8-10, 12-15, 31 and 32)
- -	164963	Mower Deck, Complete (Standard Deck, Order Separately Mulcher Plate and Gauge Wheel Components, Key Nos. 101-106 and 111-121)

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

TRACTOR - - MODEL NUMBER 917.271014

PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C



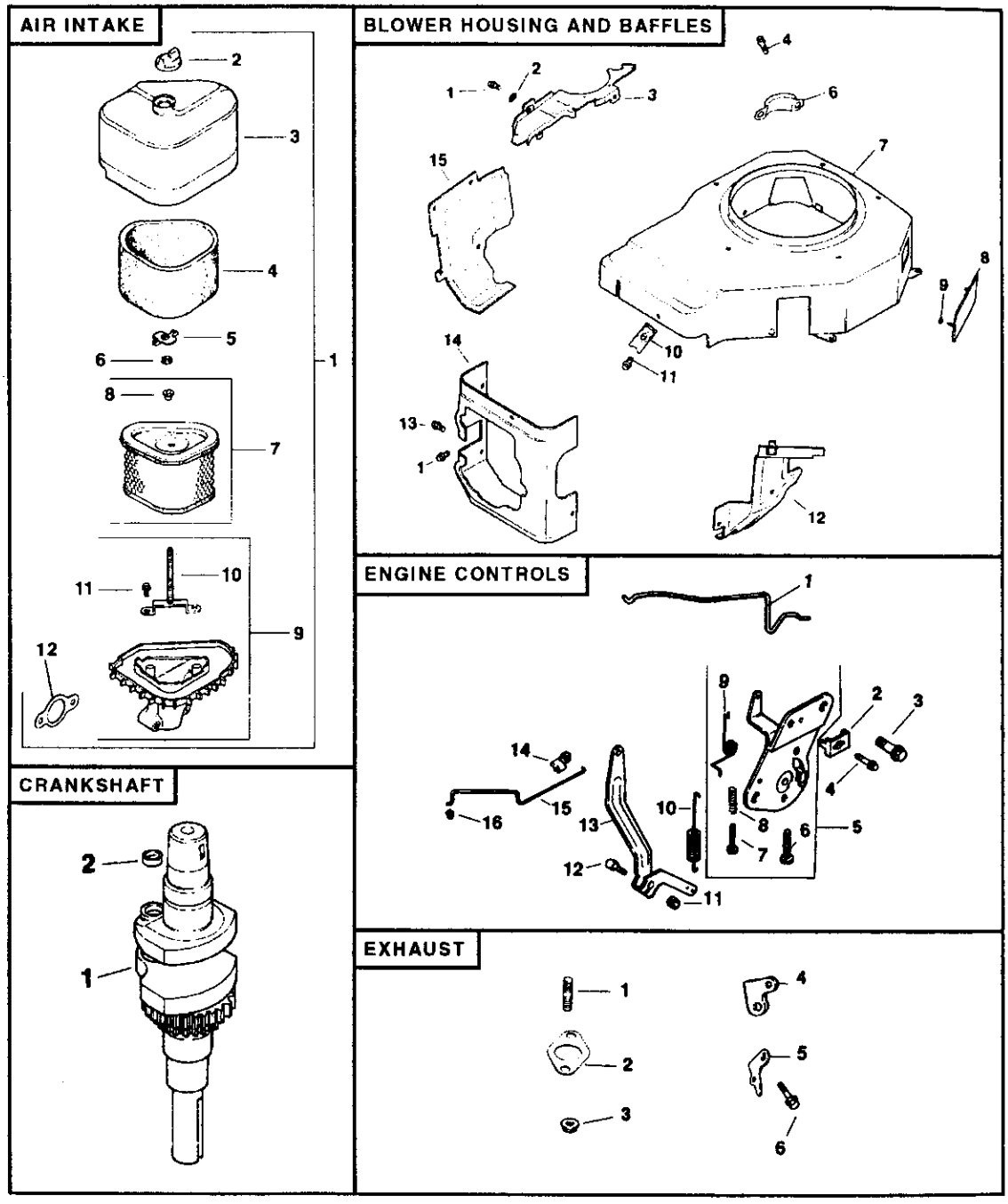
TRACTOR - - MODEL NUMBER 917.271014
PEERLESS TRANSAXLE - - MODEL NUMBER 206-545C

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

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

TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567



TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567

AIR INTAKE

KEY NO.	PART NO.	DESCRIPTION
1	12-743-05	Kit, Air Cleaner (Incl. Key Numbers 2 thru 12)
2	25-341-02	Knob, Air Cleaner Cover
3	12-096-24	Cover, Air Cleaner
4	12-083-08	Precleaner Element
5	12-100-01	Wing Nut
6	X-25-63	Washer, Plain 1/4
7	12-083-05	Element, Air Cleaner (Incl. #7)
8	12-313-04	Grommet
9	12-094-12	Base, Air Cleaner (Incl. Key Numbers 9 and 10)
10	12-072-05	Stud, Mntg Plate M6 x 1.0 x 66
11	12-086-01	Screw, #10 Hi-Lo Thread Forming (2)
12	12-041-02	Gasket, Air Cleaner
NOT ILLUSTRATED		
- -	12-113-53	Decal, Air Cleaner

CRANKSHAFT

KEY NO.	PART NO.	DESCRIPTION
1	12-014-37	Crankshaft
2	12-139-01	Plug, Cup

BLOWER HOUSING AND BAFFLES

KEY NO.	PART NO.	DESCRIPTION
1	M-0545010	Screw, Hex Flange M5 x 0.8 x 10 (8)
2	24-468-10	Washer, Plain 1/4
3	12-146-07	Plate, Blower Housing
4	M-0645020	Screw, Hex Flange M6 x 1.0 x 20
6	24-096-05	Cover, Pinion
7	12-027-32	Housing, Blower
9	12-141-01	Ring, Retainer (2)
8	12-096-28	Cover
10	25-154-02	Clip, Mounting (3)
11	M-0545020	Screw, Hex Flange M5 x .8 x 20 (3)
12	12-063-05	Baffle, Intake Side
13	M-0645016	Screw, Hex Flange M6 x 1.0 x 16 (2)
14	12-063-08	Baffle, Cylinder Head
15	12-063-01	Baffle, Cylinder
NOT ILLUSTRATED		
- -	12-113-64	Decal, Horsepower

ENGINE CONTROLS

KEY NO.	PART NO.	DESCRIPTION
1	12-079-07	Linkage, Choke
2	12-237-01	Clamp, Cable
3	M-0664020	Screw, Locked Socket M6 x 1.0 x 20 (2)
4	M-0545016	Screw, Hex Flange M5 x .8 x 16
5	12-536-09	Control, Speed Assembly (Includes Key Numbers 6 through 9)
6	M-0443020	Screw, Pan Head M4 x 0.7 x 20
7	SM-0443025	Screw, Pan Head M4 x 0.7 x 25
8	12-089-11	Spring, Choke Adjust (2)
9	12-089-23	Spring, Choke Return
10	12-089-24	Spring, Governor
11	M-0641060	Nut, Hex Flange M6 x 1.0
12	SM-0642025	Screw, Hex Flange M6 x 1.0 x 25
13	12-090-05	Lever, Governor
14	25-158-11	Bushing, Throttle Linkage
15	12-079-01	Linkage, Throttle
16	25-158-08	Bushing, Linkage Retaining

EXHAUST

KEY NO.	PART NO.	DESCRIPTION
1	M-0829033	Stud, M8 x 1.25 x 33 (2)
2	12-041-03	Gasket, Exhaust Manifold
3	M-0841080	Nut, Hex Flange M8 x 1.25 (2)
4	12-126-11	Bracket, Muffler
5	12-445-06	Strap, Lifting
6	M-0645025	Screw, Hex Flange M6 x 1.0 x 25 (2)

NOT ILLUSTRATED

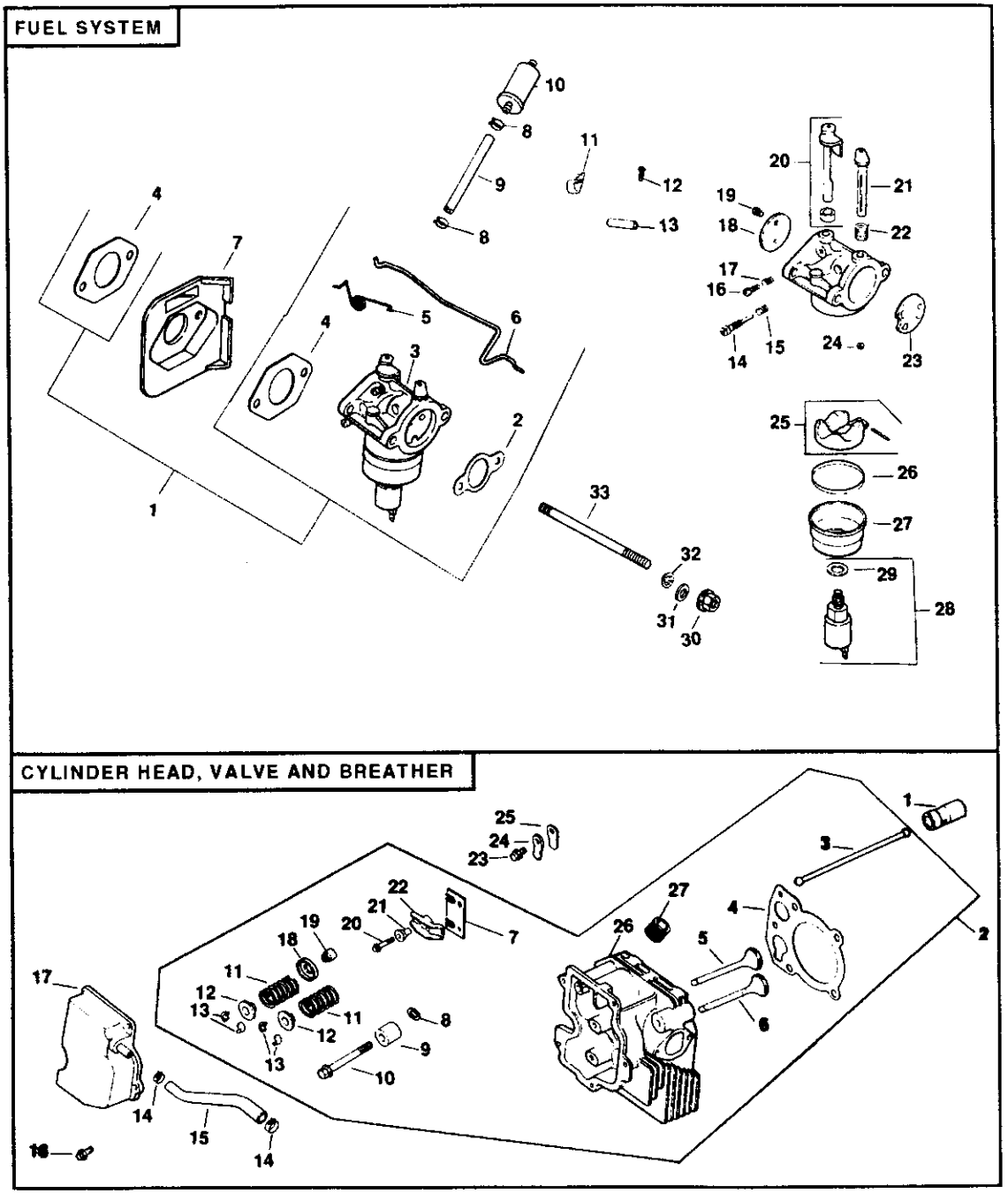
KEY NO.	PART NO.	DESCRIPTION
- -	12-522-18	Short Block
- -	12-755-59	Gasket Set

RPM Settings: Low Speed: 1500-2000
RPM Settings: High Speed: 3200-3400

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

TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567



TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567

FUEL SYSTEM

KEY NO.	PART NO.	DESCRIPTION
1	12-853-56	Kit, Carburetor (Incl. #2 thru 6)
2	12-041-02	Gasket, Air Cleaner
3	12-053-56	Carburetor Assembly (For Information Only - Not Available Separately) (Incl. Key Numbers 12 thru 27)
4	12-041-01	Gasket, Carburetor (2)
5	12-089-23	Spring, Choke Return
6	12-079-07	Linkage, Choke
7	12-265-04	Deflector, Heat
8	X-426-9	Clamp, Hose (2)
9	25-353-10	Line, Fuel, 9"
10	25-050-02	Filter, Fuel
11	47-154-01	Clip, Cable
12	12-086-07	Screw, Hex Cap 8-32 x 3/8
13	12-431-01	Sleeve, Insulating
14	12-368-05	Needle, Idle, Fuel Adjust
15	12-089-09	Spring, Idle Fuel
16	12-086-04	Screw, Idle Speed Adjust
17	12-089-09	Spring, Idle Speed
18	12-146-03	Plate, Throttle
19	25-086-27	Screw, Throttle Plate (2)
20	12-144-09	Shaft, Throttle with Lever and Seal
21	12-144-08	Shaft, Choke
22	12-089-10	Spring, Choke
23	12-146-02	Plate, Choke
24	12-337-03	Jet, Main
25	12-757-02	Kit, Float
26	12-041-05	Gasket, Bowl
27	12-104-01	Bowl, Fuel
28	12-757-09	Kit, Solenoid Assembly (Includes Key Number 29)
29	12-041-06	Gasket, Bowl Retainer Screw
30	M-0641060	Nut, Hex Flange M6 x 1.0 (2)
31	X-25-63	Washer, Plain 1/4
32	X-22-11	Washer, Lock 1/4
33	M-0629122	Stud, M6 x 1.0 x 122 (2)
NOT ILLUSTRATED		
- -	12-041-01	Gasket, Carburetor
- -	12-757-03	Kit, Carburetor Repair
- -	12-518-05	Lead, Solenoid, Black, 5", 14 Gauge, Uninsulated Push-On Tabs
- -	41-518-34	Lead, Ground, Green, 5", 18 Gauge Insulated Grip Barrel Eyelets
- -	277563	Connector
- -	12-454-03	Tie, Cable

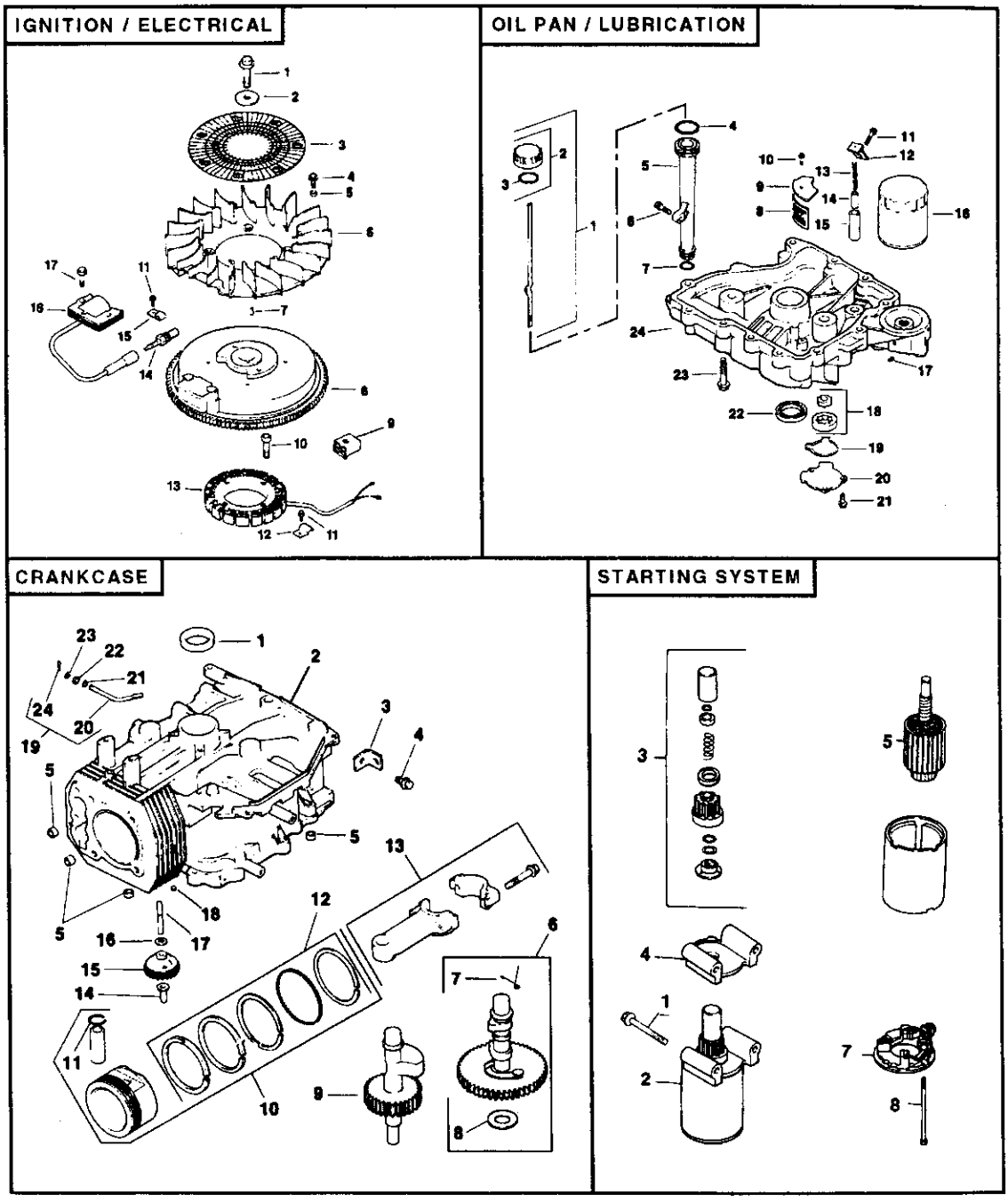
CYLINDER HEAD, VALVE AND BREATHER

KEY NO.	PART NO.	DESCRIPTION
1	12-351-01	Lifter, Valve (2)
2	12-755-60	Kit, Cylinder Head
3	12-411-01	Rod, Push (2)
4	12-041-10	Gasket, Cylinder Head
5	12-017-01	Valve, Intake, Standard Size
	12-017-02	Valve, Intake, .25" Oversize
6	12-016-01	Valve, Exhaust, Standard
	12-016-02	Valve, Exhaust, .25" Oversize
7	12-146-13	Plate, Guide
8	12-468-05	Washer, Plain 13/32
9	12-112-13	Spacer, Head Bolt Exhaust Port
10	12-086-15	Screw, Hex Flange M10 x 1.5 x 81 (5)
11	12-089-01	Spring, Valve (2)
12	12-173-01	Cap, Valve Spring (2)
13	12-755-03	Kit, Retainer (2)
14	X-426-9	Clamp, Hose (2)
15	12-326-03	Hose, Breather
16	M-0645020	Screw, Hex Flange M6 x 1.0 x 20 (5)
17	12-096-07	Cover, Valve with Nipple
18	235011	Retainer, Spring
19	24-032-05	Seal, Valve Stem
20	M-0640034	Screw, Hex Flange M6 x 1 x 34 (2)
21	24-194-01	Pivot, Rocker Arm (2)
22	24-186-03	Arm, Rocker (2)
23	M-0545010	Screw, Hex Flange M5 x 0.8 x 10
24	12-018-01	Retainer, Breather Reed
25	12-402-02	Reed, Breather
26	12-318-09	Head, Cylinder
27	X-75-23	Plug, Pipe, Allen Head 1/8

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

TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567



TRACTOR - - MODEL NUMBER 917.271014

KOHLER ENGINE - MODEL NUMBER CV15S, TYPE NUMBER PS-41567

IGNITION / ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	12-086-14	Screw, Hex Flange M10 x 1.5 x 46
2	12-468-03	Washer, Plain 3/8
3	24-162-03	Screen, Grass
4	M-0639016	Screw, Hex Flange M6 x 1 x 16 (4)
5	12-112-01	Spacer, Fan (4)
6	12-157-02	Fan
7	X-42-15	Key
8	12-025-37	Flywheel Assembly
9	12-155-02	Connector (4 Contact)
10	M-0548025	Screw, Hex Cap M5 x 0.8 x 25 (2)
11	M-0545010	Screw, Hex Flange M5 x 0.8 x 10 (2)
12	12-154-02	Clip, Stator Harness
13	12-085-07	Stator Assembly
14	12-132-02	Spark Plug
15	X-728-1	Clip, Cable
16	12-584-01	Module, Ignition
17	M-0545020	Screw, Hex Flange M5 x 0.8 x 20 (2)
NOT ILLUSTRATED		
- -	12-518-11	Lead, White, Ground To Kill (19", 18 Gauge, Fully Insulated Push-on Tab and Uninsulated Push-on Tab Terminals)

OIL PAN / LUBRICATION

KEY NO.	PART NO.	DESCRIPTION
1	12-038-01	Dipstick Assembly (Includes Key Numbers 2 & 3)
2	25-755-13	Kit, Oil Fill Cap (Includes Key #3)
3	12-153-03	O-Ring, Dipstick
4	12-153-02	O-Ring, Upper Oil Fill Tube
5	12-123-04	Tube, Oil Fill
6	M-0545020	Screw, Hex Flange M5 x 0.8 x 20
7	12-153-01	O-Ring, Lower Oil Fill Tube
8	25-162-07	Screen, Oil Pick-up
9	12-096-03	Cover, Oil Pick-up Screen
10	M-0545016	Screw, Hex Flange M5 x 0.8 x 16
11	M-1039025	Screw, Hex Flange M10 x 1.5 x 25
12	12-126-02	Bracket, Oil Pump Relief Valve
13	12-089-03	Spring, Oil Pump Relief Valve
14	12-462-01	Piston, Oil Pump Relief Valve
15	12-208-01	Body, Oil Pump Relief Valve
16	12-050-01	Filter, Oil
17	X-75-10	Plug, Square Head, Solid 3/8
18	12-393-01	Oil Pump Assembly
19	12-032-04	O-Ring, Oil Pump Cover
20	12-096-02	Cover, Oil Pump
21	M-0545016	Screw, Hex Flange M5 x 0.8 x 16 (3)
22	12-032-03	Seal, Oil (P.T.O. End)
23	SM-0839045	Screw, Hex Flange M8 x 1.25 x 45 (12)
24	12-199-30	Pan, Oil

CRANKCASE

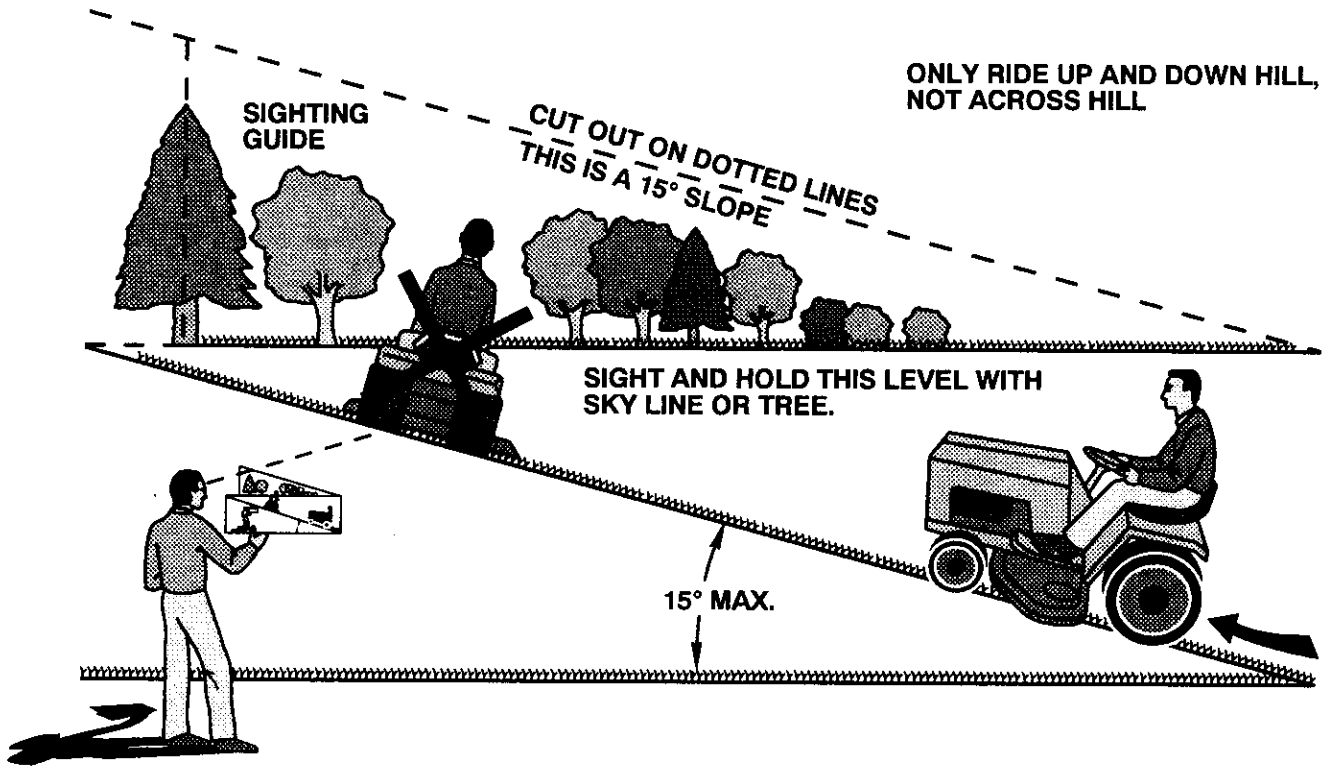
KEY NO.	PART NO.	DESCRIPTION
1	12-032-03	Seal, Crankshaft
2	12-522-18	Block, Cylinder (Use Short Block)
3	12-445-02	Strap, Lifting
4	M-0839025	Screw, Hex Flange M8 x 1.25 x 25
5	12-380-03	Dowel, Locating (4)
6	12-755-49	Kit, Camshaft (Includes Key #7 & 8)
7	12-089-18	Spring, Actuating
8	12-422-08	Shim, Camshaft, Blue
	12-422-09	Shim, Camshaft, Red (A.R.)
	12-422-10	Shim, Camshaft, Yellow (A.R.)
	12-422-11	Shim, Camshaft, Green (A.R.)
	12-422-12	Shim, Camshaft, Grey (A.R.)
	12-422-13	Shim, Camshaft, Black (A.R.)
	12-422-07	Shim, Camshaft, White (A.R.)
9	12-144-27	Shaft, Balance
10	12-874-07	Piston w/Ring Set, Standard
	12-874-08	Piston w/Ring Set .25" Oversize
	12-874-09	Piston w/Ring Set .50" Oversize
11	12-018-02	Retainer, Piston Pin (2)
12	12-108-07	Ring Set, Standard
	12-108-08	Ring Set .25" Oversize
	12-108-09	Ring Set .50" Oversize
13	12-067-05	Connecting Rod, Standard
	12-067-06	Connecting Rod .25" Oversize
14	12-380-01	Pin, Governor Regulating
15	12-043-05	Gear, Governor Assembly
16	M-0631005	Washer, Plain, 6mm
17	12-144-02	Shaft, Governor Gear
18	52-139-09	Plug, Cup
19	12-755-64	Kit, Shaft, Governor Cross, with Clip (Includes Key #20 and 24)
20	12-144-24	Shaft, Governor Cross
21	X-25-102	Washer, Plain 1/4
22	12-032-01	Seal, Governor Cross Shaft
23	SM-0631015	Washer, Plain, 6mm
24	12-154-05	Clip, Hitch Pin

STARTING SYSTEM

KEY NO.	PART NO.	DESCRIPTION
1	M-0839070	Screw, Hex Flange M8 x 1.25 x 70 (2)
2	25-098-03	Starter Assembly (Includes Key Numbers 3 thru 8)
3	12-755-54	Kit, Drive End
4	12-227-06	Cap, Drive End
5	45-170-03	Armature
7	12-227-11	End Cap, Commutator
8	12-086-25	Screw, Hex Flange 1/4-20 x 4-5/8 (2)

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

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



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

For in-home major brand repair service:
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1-800-665-4455

For the repair or replacement parts you need:
Call 6 am - 11 pm CST, 7 days a week
PartsDirect[SM]
1-800-366-PART (1-800-366-7278)

Para ordenar piezas con entrega a domicilio
1-800-659-7084

For the location of a Sears Parts and Repair Center in your area:
Call 24 hours a day, 7 days a week
1-800-488-1222

For information on purchasing a Sears Maintenance Agreement or to inquire about an existing Agreement:
Call 9 am - 5 pm, Monday - Saturday
1-800-827-6655

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