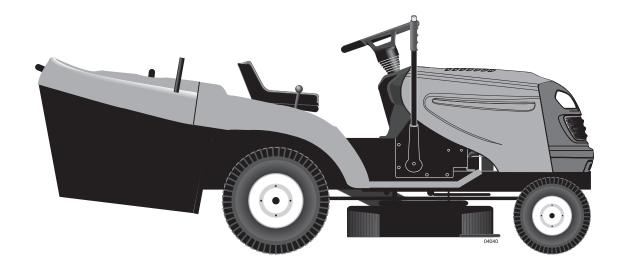
Poulan PRO



OWNER'S MANUAL

MODEL:

PP16H36RB

A

WARNING:

Read this Manual and follow all Warnings and Safety Instructions. Failure to do so can result in serious injury.

ALWAYS WEAR EYE PROTECTION DURING OPERATION

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A

SAFETY RULES

Safe Operation Practices for Ride-On Mowers



DANGER: 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.



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



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

I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- 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 blades.
- Be sure the area is clear of bystanders before operating. 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 direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.

- Operate machine 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.
- Always wear eye protection when operating machine.
- 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.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris build-up which can touch hot exhaust / engine parts and burn. Do not allow the mower deck to plow leaves or other debris which can cause build-up to occur. Clean any oil or fuel spillage before operating or storing the machine. Allow machine to cool before storage.

II. SLOPE OPERATION

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

- Mow up and down slopes, not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine.
 Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Do not mow on wet grass. Tires may lose traction. Always keep the machine in gear when going down slopes. Do not shift to neutral and coast downhill.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep all movement on the slopes slow and gradual.
 Do not make sudden changes in speed or direction, which could cause the machine to roll over.
- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do no use on steep slopes.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not mow near drop-offs, ditches, or embankments.
 The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.



SAFETY RULES

Safe Operation Practices for Ride-On Mowers



III. CHILDREN

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

- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They
 may fall off and be seriously injured or interfere with
 safe machine operation. Children who have been given
 rides in the past may suddenly appear in the mowing
 area for another ride and be run over or backed over
 by the machine.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

IV. TOWING

- Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
- Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
- Never allow children or others in or on towed equipment
- On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
- Travel slowly and allow extra distance to stop.

V. SERVICE

SAFE HANDLING OF GASOLINE

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from your vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete.
 Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.

GENERAL SERVICE

- · Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage and remove any fuelsoaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.











- Be sure the area is clear of bystanders before operating. 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, even with the blades shut off. They
 may fall off and be seriously injured or interfere with
 safe machine operation. Children who have been given
 rides in the past may suddenly appear in the mowing
 area for another ride and be run over or backed over
 by the machine.
- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Mow up and down slopes (15° Max), not across.
- Choose a low ground speed so that you will not have to stop or shift while on the slope.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- If machine stops while going uphill, disengage blades, shift into reverse and back down slowly.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.

PRODUCT SPECIFICATIONS

Gasoline Capacity and type:	2.0 Gallons Unleaded Regular
Oil Type (API-SG-SL):	SAE 30 (above 32°F) SAE 5W-30 (below 32°F)
Oil Capacity:	48 oz. (1.4 L)
Spark Plug: (Gap: .030")	Champion RC12YC
Ground Speed (MPH):	Forward: 0-5.5 Reverse: 0-2.4
Charging System:	3 Amps Battery 5 Amps Headlights
Battery:	AMP/HR: 28 MIN. CCA: 230 CASE SIZE:U1R
Blade Bolt Torque:	27–35 FT. LBS.

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

Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center. 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".

CUSTOMER RESPONSIBILITIES

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

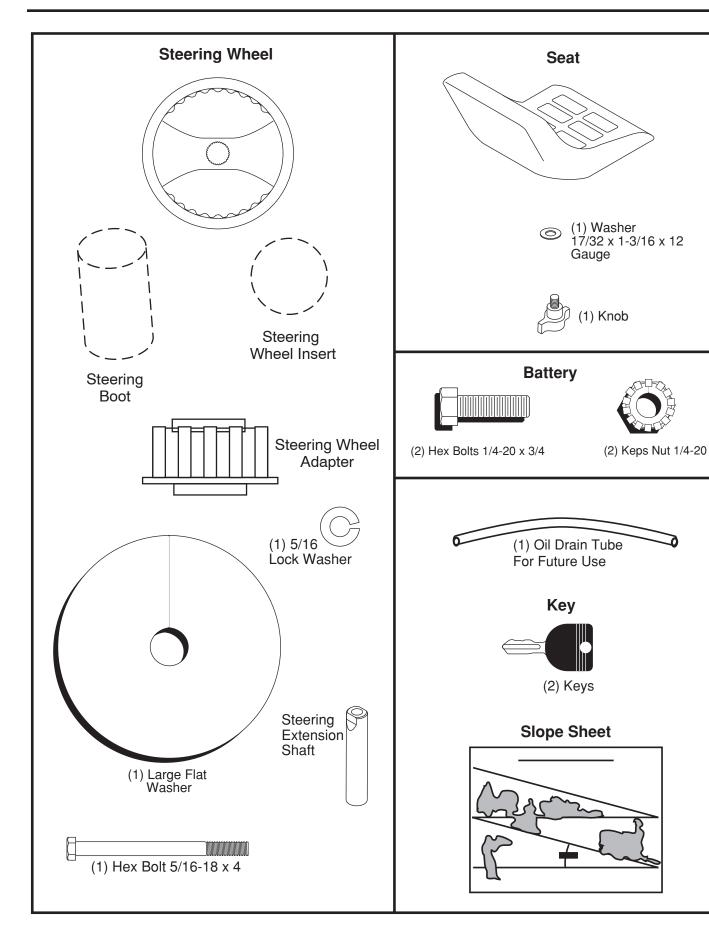
WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester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

A spark arrester for the muffler is available through your nearest authorized service center/department (See REPAIR PARTS section of this manual).

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UNASSEMBLED PARTS



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.

TOOLS REQUIRED FOR ASSEMBLY

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

(2) 7/16" wrenches Utility knife

(1) 3/4" wrenches Tire pressure gauge

Pliers

When right or left hand is mentioned in this manual, it means 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 cartons from carton.
- Cut along dashed lines on all four panels of carton.
 Remove end panels and lay side panels flat.
- Check for any additional loose parts or cartons and remove.

BEFORE REMOVING TRACTOR FROM SKID

ATTACH STEERING WHEEL (See Fig. 1)

ASSEMBLE EXTENSION SHAFT AND BOOT

- Slide extension shaft onto lower steering shaft.
- 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.
- Remove steering wheel adapter from steering wheel and slide 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, 5/16 lock washer, 5/16 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.

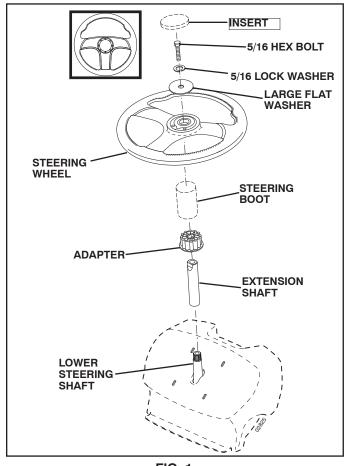


FIG. 1

CONNECT BATTERY (See Figs. 2)



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.

- 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 the Maintenance section of this manual for charging instructions).
- Remove battery cover.
- · Remove terminal protective caps and discard.

- 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.
- Replace battery cover.

Open battery cover for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- Testing battery.
- · Jumping (if required).
- Periodic charging.

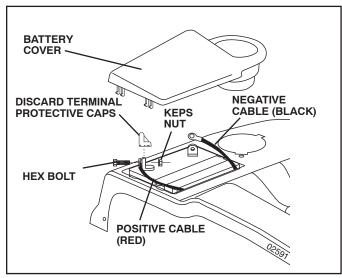


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove adjustment knob and flat washer securing seat to cardboard packing and set aside for assembly of seat to tractor.
- Pivot seat upward and remove from the cardboard packing. Remove the cardboard packing and discard.
- Place seat on seat pan so head of shoulder bolt is positioned over large slotted hole in pan.
- Push down on seat to engage shoulder bolt in slot and pull seat towards rear of tractor.
- Pivot seat and pan forward and 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.

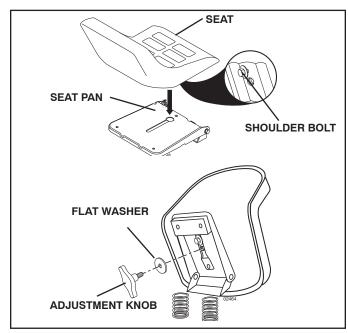


FIG. 3

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

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.

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

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place freewheel control in "transmission disengaged position" (See "TO TRANSPORT" in the Operation section of this manual).
- · Roll tractor forward off skid.
- Remove banding holding the deflector shield up against tractor.

TO INSTALL BAGGER COMPONENTS TO TRACTOR (See Figs. 4A-4D)

- Remove discharge chute from rear of tractor. Unhook the two (2) straps and pull chute out and away from tractor.
- Remove the two (2) 3/8 nuts and flat washers from the bolts at the tractor back plate.

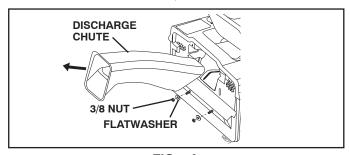


FIG. 4A

 Using the nuts and flat washers removed from tractor back plate, install the bagger support tube to the back plate as shown. Tighten securely.

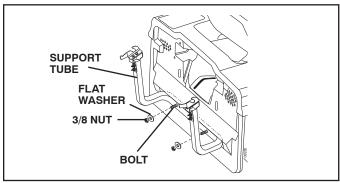


FIG. 4B

- Install the two upper support brackets through the back plate and to the chassis, install the clevis pin 10x17mm and secure with retainer spring.
- Assemble both support brackets to the outside of the bagger support tube using two each 3/8 x 63,5mm hex bolts13/32"I.D. flat washers and 3/8 locknuts from parts bag. Tighten securely.

Replace discharge chute into rear opening of tractor.
 Secure the chute with the two hook straps.

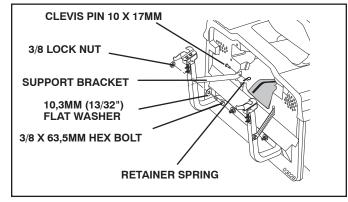


FIG. 4C

NOTE: The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. This will allow the discharge chute to float with the mower deck when moving on uneven terrain.

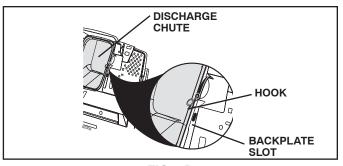


FIG. 4D

TO ASSEMBLE BAGGER (See Figs. 5A-5C)

- Unfold bag by pivoting front bagger tube all the way forward and pressing the bottom vinyl binding onto the tube.
- Inside the bag, install spreader bars and retainer springs onto pins on both sides of bag as shown.
- Press the vinyl bindings onto the sides of front bagger tube
- Slide the bagger dump handle through the hole in the bagger top, install the clevis pin 10 x 44mm and secure with retainer spring.

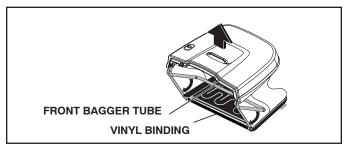


FIG. 5A

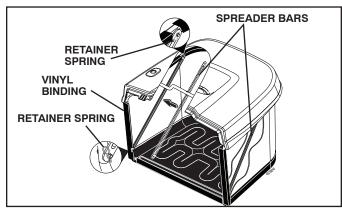


FIG. 5B

Push cap over end of bagger dump handle.

NOTE: For future use, the clevis pin may be removed in order to use the handle to clear the chute in the event it has become clogged.

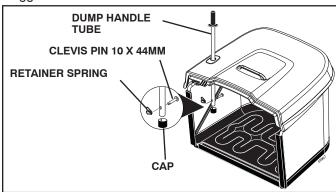


FIG. 5C

BAGGER ADJUSTMENT (See Fig. 6 & 7)

For proper bag function and appearance, it may be necessary to adjust the bagger assembly. There should be 6mm (1/4")-9mm (3/8") gap between the bagger top and fender and the bagger top surface should be even with the top surface of the fender. To adjust bagger position:

HORIZONTAL ADJUSTMENT

- Slightly loosen the nuts securing the bagger RH and LH horizontal adjustment brackets. Loosen only enough so the brackets keep their position, but allow them to be moved.
- Move the brackets the amount forward or backward you wish the bag assembly to move. Retighten the nuts securely.

VERTICAL ADJUSTMENT

- Slightly loosen the nuts securing the vertical adjustment brackets. Loosen only enough so the brackets keep their position, but allow them to be moved.
- Move the brackets the amount up or down you wish the bag assembly to move. Retighten the nuts securely.
- Reinstall the bagger assembly and check the bagger to fender fit. If necessary, repeat the procedure until proper fit is attained.
- After proper fit is attained, remove bagger from tractor and install bagger latch (4) to tractor back plate as shown. Tighten securely.

- Install and carefully lower bagger to actuate latch.
- Measure distance between bagger and latch as shown.

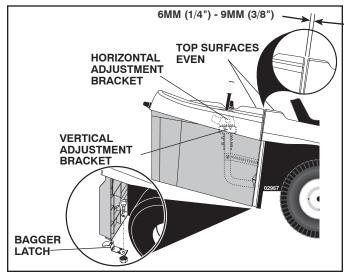


FIG. 6

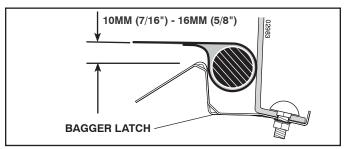


FIG. 7

If distance is not 10mm - 16mm carefully remove bagger and repeat vertical adjustment as needed.

TO ASSEMBLE AND INSTALL MULCHER PLUG (See Fig. 8)

- Remove spring retainer and pin from handle.
- Insert plug into handle. Make sure that the letter "A"
 on both the plug and handle are on the same side and
 that they can both be seen from the top when laying
 on the ground.
- Secure with pin and retainer spring provided. For installation see "To Convert Mower" in Section 5 of this manual.

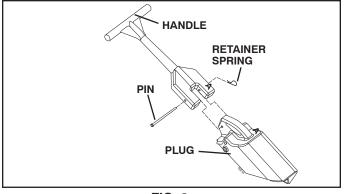


FIG. 8

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 on tires.

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 section of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

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

✓ CHECKLIST

BEFORE YOU OPERATE 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.
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.
- ✓ Before driving tractor, be sure freewheel control is in "transmission engaged" position (see "TO TRANS-PORT" in the Operation section of this manual).

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.
- ✓ Be sure Operator Presence System and Reverse Operation System (ROS) are working properly (See the Operation and Maintenance sections in this manual).
- ✓ It is important to purge the transmission before operating your tractor for the first time. Follow proper starting and transmission purging instructions (See "TO START ENGINE" and "PURGE TRANSMISSION" in the Operation section of this manual).

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



NEUTRAL















REVERSE OPERATION SYSTEM (ROS)



ENGINE START

PARKING BRAKE



PARKING BRAKE

UNLOCKED

















OVER TEMP LIGHT



OIL PRESSURE

REVERSE

FORWARD

MOWER HEIGHT

LOCKED

MOWER LIFT





ATTACHMENT



BRAKE/CLUTCH











ATTACHMENT CLUTCH DISENGAGED

CLUTCH ENGAGED

PEDAL



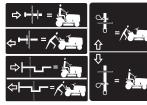
BEWARE OF THROWN OBJECTS







SLOPE HAZARDS KEEP AREA CLEAR (SEE SAFETY RULES SECTION)



FREE WHEEL (Automatic Models only)



DANGER, KEEP HANDS **AND FEET AWAY**



DO NOT OPERATE WITHOUT **BAGGER OR DEFLECTOR**





DRAWBAR LOADING



Failure to follow instructions could result in serious injury or death. The safety alert symbol is used to identify safety information about hazards which can result in death, serious injury and/or property damage.



DANGER indicates a hazard which, if not avoided, will result in death or serious injury.



WARNING indicates a hazard which, if not avoided, could result in death or serious injury.



CAUTION indicates a hazard which, if not avoided, might result in minor or moderate injury.

CAUTION when used without the alert symbol, indicates a situation that could result in damage to the tractor and/or engine.



HOT SURFACES indicates a hazard which. if not avoided, could result in death, serious injury and/or property damage.



FIRE indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

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.

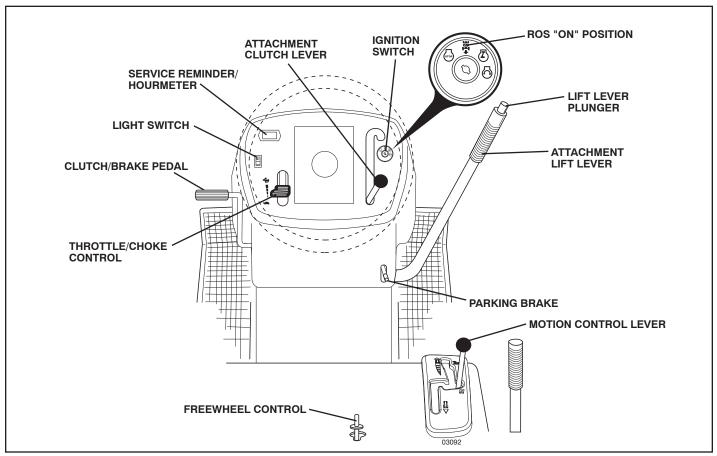


FIG. 9

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

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

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

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

FREEWHEEL CONTROL - Disengages transmission for pushing or slowly towing the tractor with the engine off.

IGNITION SWITCH - Used for starting and stopping the engine.

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

LIGHT SWITCH - Turns the headlights on and off.

MOTION CONTROL LEVER - Selects the speed and direction of tractor.

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

REVERSE OPERATION SYSTEM (ROS) "ON" POSITION - Allows operation of mower deck or other powered attachment while in reverse.

SERVICE REMINDER/HOURMETER - Indicates when service is required for the engine and mower.

THROTTLE/CHOKE CONTROL - Used for starting and controlling engine speed.



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 (See Fig. 10)

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 "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

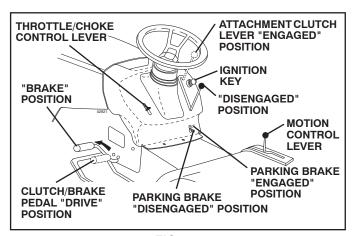


FIG. 10

STOPPING (See Fig. 10)

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 motion control 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 "STOP" 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 "STOP" 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 (See Fig. 10)

Always operate engine at full speed (fast).

- Operating engine at less than full speed (fast) reduces the engine's operating efficiency.
- Full speed (fast) offers the best mower performance.

TO MOVE FORWARD AND BACKWARD (See Fig. 10)

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

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

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 10)

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

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

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

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

TO ADJUST GAUGE WHEELS (See Fig. 11)

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

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

- Adjust mower to desired cutting height (See "TO AD-JUST 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.

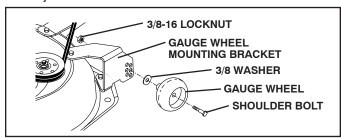


FIG. 11

TO OPERATE MOWER (See Fig. 12)

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. You must remain fully and centrally positioned in the seat to prevent the engine from hesitating or cutting off when operating your equipment on rough, rolling terrain or hills.

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



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

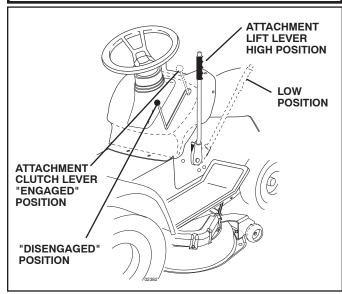


FIG. 12

REVERSE OPERATION SYSTEM (ROS)

Your tractor is equipped with a Reverse Operation System (ROS). Any attempt by the operator to travel in the reverse direction with the attachment clutch engaged will shut off the engine unless ignition key is placed in the ROS "ON" position.

⚠ WARNING: Backing up with the attachment clutch engaged while mowing is strongly discouraged. Turning the ROS "ON", to allow reverse operation with the attachment clutch engaged, should only be done when the operator decides it is necessary to reposition the machine with the attachment engaged. Do not mow in reverse unless absolutely necessary.

USING THE REVERSE OPERATION SYSTEM -

Only use if you are certain no children or other bystanders will enter the mowing area.

- Move motion control lever to neutral (N) position.
- With engine running, turn ignition key counterclockwise to ROS "ON" position.
- Look down and behind before and while backing.
- Slowly move motion control lever to reverse (R) position to start movement.
- When use of the ROS is no longer needed, turn the ignition key clockwise to engine "ON" position.



ENGINE "ON" POSITION (NORMAL OPERATING)





TO OPERATE ON HILLS



WARNING: 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 stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to neutral (N) position.

IMPORTANT: THE MOTION CONTROL LEVER DOES NOT RETURN TO NEUTRAL (N) POSITION WHEN THE CLUTCH/BRAKE PEDAL IS DEPRESSED.

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

TO TRANSPORT (See Figs. 9 and 13)

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

- Raise attachment lift to highest position with attachment lift control.
- Raise seat and pull freewheel control up and back into the slot and release so it is held in the disengaged position.

- Do not push or tow tractor at more than two (2) MPH.
- To reengage transmission, reverse above procedure.

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

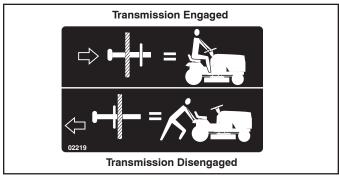


FIG. 13

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.

SERVICE REMINDER/HOUR METER

Service reminder shows the total number of hours the engine has run and flashes to indicate that the engine or mower needs servicing. When service is required, the service reminder will flash for two hours. To service engine and mower, see the Maintenance section of this manual.

NOTE: Service reminder runs when the ignition key is in any position but "STOP". For accurate reading, be sure key remains in the "STOP" position when engine is not running.

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.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, 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 to bottom of filler neck. Do not overfill.
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.



CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

CAUTION: 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.

TO START ENGINE (See Fig. 9)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Be sure freewheel control is in the transmission engaged position.
- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral (N) position.
- Move attachment clutch to "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.

AUTOMATIC TRANSMISSION WARM UP

- Before driving the unit in cold weather, the transmission should be warmed up as follows:
 - Be sure the tractor is on level ground.

- Place the motion control lever in neutral.
 Release the parking brake and let the clutch/brake slowly return to operating position.
- Allow one minute for transmission to warm up. This
 can be done during the engine warm up period.
- The attachments can also be used during the engine warmup period after the transmission has been warmed up.

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.

PURGE TRANSMISSION



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

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

IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

- Place tractor safely on a level surface that is clear and open - with engine off and parking brake set.
- Disengage transmission by placing freewheel control in freewheeling position (See "TOTRANSPORT" in this section of manual).
- Sitting in the tractor seat, start engine. After the engine is running, move throttle control to slow position. With motion control lever in neutral (N) position, slowly disengage clutch/brake pedal.



CAUTION: At any time, during step 4, there may be movement of the drive wheels.

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

Your transmission is now purged and now ready for normal operation.

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.
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

MULCHING MOWING TIPS

IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN AFTER EACH USE.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the mower cutting height so that the mower cuts off only the top one-third of the grass blades (See Fig. 15). For extremely heavy mulching, reduce your width of cut on each pass and mow slowly.

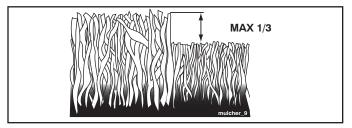


FIG. 15

- 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.

TO DUMP BAGGER (See Fig.16)

Your tractor is equipped with a Dump Bag Alarm. To turn off the alarm disengage the attachment clutch switch.

- Position tractor in location you wish to dump bagger.
- Place motion control lever in Neutral position and set parking brake.
- Raise dump handle to its highest position. Pull handle forward to raise bagger and dump clippings.
- To continue mowing, be sure bagger is down and in proper operating position which will allow mower to operate.

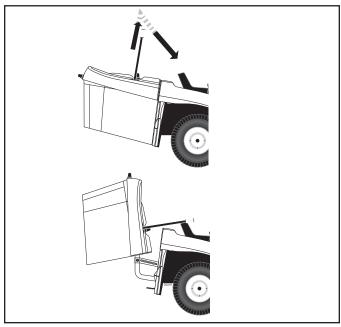


FIG. 16

TO CONVERT MOWER (See Fig. 17)

(Converting to mulching or rear discharging will require a mulcher plug and discharge deflector)

MULCHING (Requires mulcher plug)

- Place deck into the high cut position.
- Remove bagger or optional rear discharge deflector.
- Unhook the two (2) straps and remove discharge chute
- Insert mulcher plug and handle assembly through back plate and onto the mower deck chute adaptor.
- Secure the plug assembly by connecting the two straps over the handle and hook into the holes provided.
- Replace bagger or optional rear discharge deflector to allow mower to operate.

You are now ready to begin mulching.

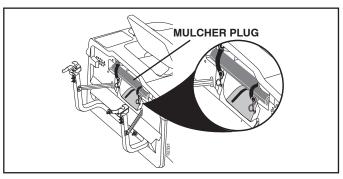


FIG. 17

BAGGING (see Fig. 18)

- · Place deck into the high cut position.
- Remove the rear discharge deflector or mulching plug.
- Insert the discharge chute into the opening in the backplate and onto the mower deck adaptor.
- Attach the chute to the tractor by hooking the two straps to the flange of the chute.

NOTE: The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. If it does, the discharge chute will not float with the mower deck when mowing on uneven terrain.

Install bagger onto tractor.

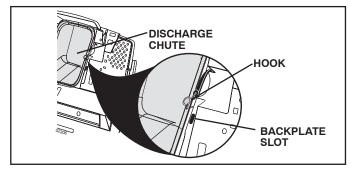


FIG. 18

REAR DISCHARGING (optional accessory required)

- Place deck into the high cut position.
- Remove bagger and mulching plug (if installed).
- Depress rear door and install discharge chute through opening in backplate and slide over deck adaptor.
- Attach the chute by hooking the two straps into the holes in the flange of the chute.

NOTE: The strap hook must go through the discharge chute only. Do not allow the hook to enter the slot in the tractor back plate. If it does, the discharge chute will not float with the mower deck when mowing on uneven terrain.

- Install the discharge deflector to the backplate by screwing the four (4) wing screws into the threaded inserts located in the backplate.
- Tighten the wing screws securely.

	MAINTENANCE SCHEDULE	BEFORE EACH USE	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE
Г	Check Brake Operation	V						
I٠	Check Tire Pressure	/	/					
ľĸ	Check Operator Presence & ROS Systems	/						
lΆ	Check for Loose Fasteners	/				/		/
C	Check/Replace Mower Blades			√ 3				
ĮΤ	Lubrication Chart			/				/
	Check Battery Level			1 4				
R	Clean Battery and Terminals			/				V
ı	Check Transaxle Cooling			/				
ı	Check Mower Levelness				/			
L	Check V-Belts					V		
L	Check Engine Oil Level	/	/					
ı	Change Engine Oil (with oil filter)				1,2			V
lΕ	Change Engine Oil (without oil filter)			1,2				
Ι'n	Clean Air Filter			1 2				
lĠ	Clean Air Screen			1 2				
Ĭ	Inspect Muffler/Spark Arrester				/			
N	Replace Oil Filter (If equipped)					1,2		
ĮΕ	Clean Engine Cooling Fins					2		
	Replace Spark Plug					/	/	
	Replace Air Filter Paper Cartridge					1 2		
	Replace Fuel Filter							

- 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.

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.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

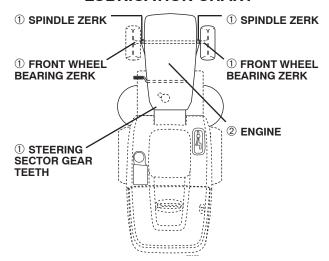
 Åt least once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

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

- 3 Replace blades more often when mowing in sandy soil.
- 4 Not required if equipped with maintenance-free battery.

LUBRICATION CHART



- **① GENERAL PURPOSE GREASE**
- 2 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 five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and 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 AND REVERSE OPERATION SYSTEM (ROS)

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

 The engine should not start unless the brake pedal is fully depressed, and the attachment clutch control is in the disengaged position.

CHECK OPERATOR PRESENCE SYSTEM

- 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.

CHECK REVERSE OPERATION (ROS) SYSTEM

- When the engine is running with the ignition switch in the engine "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should shut off the engine.
- When the engine is running with the ignition switch in the ROS "ON" position and the attachment clutch engaged, any attempt by the operator to shift into reverse should NOT shut off the engine.

ROS "ON" POSITION

ENGINE "ON" POSITION (NORMAL OPERATING)





BLADE CARE (See Fig. 19)

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



CAUTION: Use only a replacement blade approved by the manufacturer of your tractor. Using a blade not approved by the manufacturer of your tractor is hazardous, could damage your tractor and void your warranty.

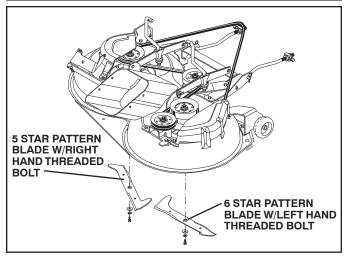


FIG.19

5 STAR PATTERN BLADE (See Fig. 20)

The center of this blade has a five (5) star pattern. The bolt that attaches this blade has normal **Right Hand threads** that loosens by turning $(\protect\pr$

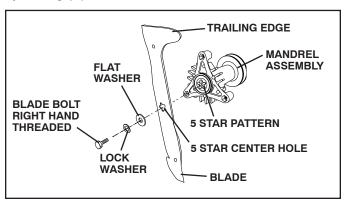


FIG.20

6 STAR PATTERN BLADE (See Fig. 21)

The center of this blade has a 6 star pattern. The bolt attaching this blade has **Left Hand threads** that loosens by turning (\sim) clockwise and tighten by turning (\sim) counterclockwise.

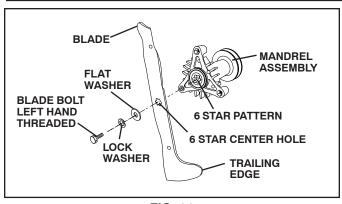


FIG. 21

BATTERY

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

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

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

TO CLEAN BATTERY AND TERMINALS

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

- Remove battery cover.
- 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 "CONNECT BATTERY" in the Assembly section of this manual).

V-BELTS

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

TRANSAXLE COOLING

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

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

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

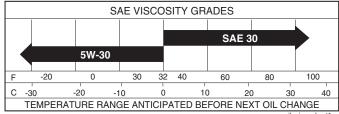
TRANSAXLE PUMP FLUID

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

ENGINE

LUBRICATION

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



oil_visc_chart1_e

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, they will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after every 25 hours of operation or at least once a year if the tractor is not used for 25 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 (See Fig. 22)

Determine temperature range expected before oil change. All oil must meet API service classification SG-SL.

- 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 yellow cap from end of drain valve and install the drain tube onto the fitting.

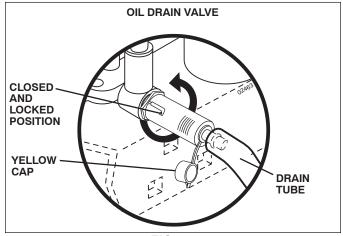


FIG. 22

- Unlock drain valve by pushing inward and turning counterclockwise.
- To open, pull out on the drain valve.
- After oil has drained completely, close and lock the drain valve by pushing inward and turning clockwise until the pin is in the locked position as shown.
- Remove the drain tube and replace the cap onto to the bottom fitting of the drain valve.
- 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. Be sure dipstick cap is tightened securely for accurate 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. See engine manual.

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 50 hours of operation or every season, whichever occurs first. See engine manual.

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.

MUFFLER

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

SPARK PLUGS

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

IN-LINE FUEL FILTER (See Fig. 23)

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

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

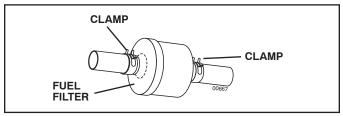


FIG. 23

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 or pressure washer to clean your tractor unless the engine and transmission are covered to keep water out. Water in engine or transmission will shorten the useful life of your tractor. Use compressed air or a leaf blower to remove grass, leaves and trash from tractor and mower.



WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUST-MENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place motion control lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key to "STOP" 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 (See Fig. 24)

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

- Place attachment clutch control in "DISENGAGED" position.
- Move attachment lift lever forward to lower mower to its lowest position.
- · Roll belt off clutch pulley.
- Disconnect anti-sway bar 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 (See Fig. 24)

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

Slide mower under tractor.

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

- Install belt into clutch pulley groove.
- Install left front link into the left hand front mower bracket (retain with single loop retainer springs as shown).

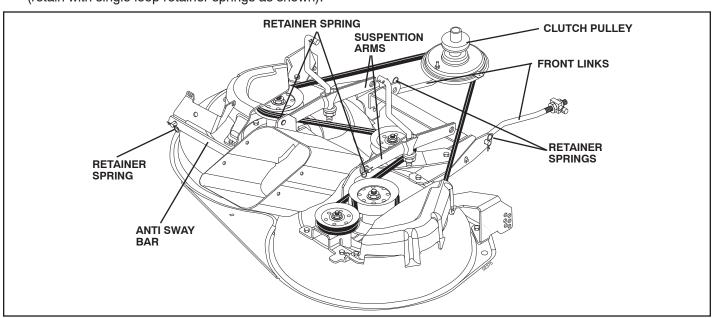
- Slide right side of mower back and install right front link into right hand front mower bracket (retain with single loop retainer springs).
- Place the suspension arms on mower pins, if necessary, rock and raise front of mower to align mower pins with the holes in suspension arms. Retain with double loop retainer spring, loop down as shown.
- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- · Raise deck to highest position.

TO LEVEL MOWER HOUSING

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

SIDE-TO-SIDE ADJUSTMENT (See Figs. 25 and 26)

- 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.



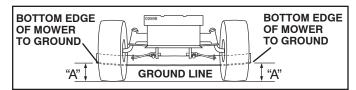


FIG. 25

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

Recheck measurements after adjusting.

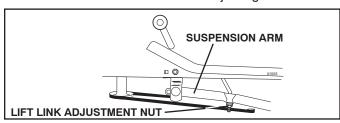


FIG. 26

FRONT-TO-BACK ADJUSTMENT (See Figs. 27 and 28) IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

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

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

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

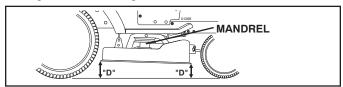


FIG. 27

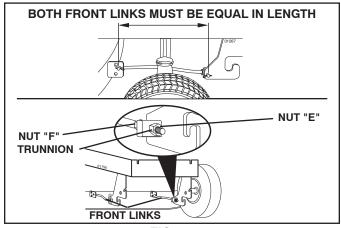


FIG. 28

- 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. The two front links must remain equal in length.
- 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.

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 29)

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).
- Remove screws from RH mandrel cover and remove cover.
- Remove screws from LH mandrel cover and remove cover.
- Work belt off both mandrel pulleys and idler pulleys.
- · Pull belt away from mower.

BELT INSTALLATION -

- Install new belt in reverse order of removal. See belt routing decal located on right mandrel cover.
- Make sure belt is in all pulley grooves and inside all belt guides.
- Install left and right mandrel covers and tighten securely.
 Make sure belt is in mandrel pulley cover.
- Install mower (see "To install mower" in this section of this manual).

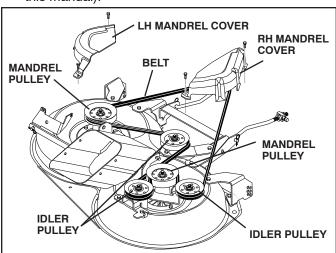


FIG. 29

TO CHECK AND ADJUST BRAKE (See Fig. 30)

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

If tractor requires more than five (5) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be checked and adjusted.

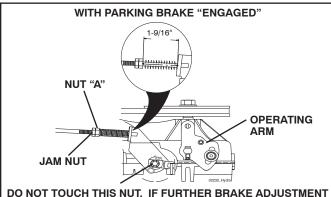
TO CHECK BRAKE

- Park tractor on a level, dry concrete or paved surface, depress clutch/brake pedal all the way down and engage parking brake.
- Disengage transmission by placing freewheel control in "transmission disengaged" position. Pull freewheel control out and into the slot and release so it is held in the disengaged position.

The rear wheels must lock and skid when you try to manually push the tractor forward. If the rear wheels rotate, the brake needs to be adjusted or the pads need to be replaced.

TO ADJUST BRAKE

- Depress clutch/brake pedal all the way down and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-9/16", loosen jam nut and turn nut "A" until distance becomes 1-9/16". Retighten jam nut against nut "A".
- Engage transmission by placing freewheel control in "transmission engaged" position.
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than five (5) feet in highest gear, further maintenance is necessary. Replace brake pads or contact a qualified service center.



IS NECESSARY CONTACT YOUR NEAREST AUTHORIZED SER-VICE CENTER/DEPARTMENT

FIG. 30

TO REPLACE MOTION DRIVE BELT (See Fig. 31)

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

BELT REMOVAL -

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

NOTE: Observe entire motion drive belt and position of all belt guides and keepers.

- Remove clutch locator.
- Remove belt from clutching idler and all stationary idlers.
- Remove belt downward from engine pulley and around clutch.
- Pull belt slack toward rear of tractor. Carefully remove belt upwards from transmission input pulley and over cooling fan blades.

BELT INSTALLATION -

- Carefully work new belt down around transmission cooling fan and onto the input pulley.
- Pull belt toward front of tractor and roll belt around clutch and onto engine pulley.
- Install belt through all stationary idlers and clutching idler.
- Reinstall clutch locator and tighten nut securely.

- Make sure belt is in all pulley grooves and inside all belt guides and keepers.
- Install mower (See "TO INSTALL MOWER" in this section of manual).

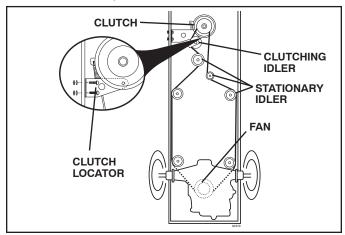


FIG. 31

TRANSMISSION REMOVAL/REPLACEMENT

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

TRANSAXLE MOTION CONTROL LEVER NEUTRAL ADJUSTMENT(See Fig. 32)

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

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

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

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

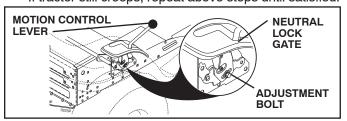


FIG. 32

TO ADJUST STEERING WHEEL ALIGNMENT

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

FRONT WHEEL TOE-IN/CAMBER

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

TO REMOVE WHEEL FOR REPAIRS (See Fig. 33)

- 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.

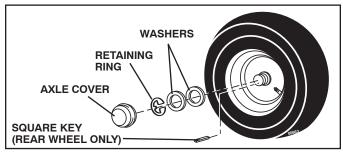


FIG. 33

TO START ENGINE WITH A WEAK BATTERY (See Fig. 34)



WARNING: 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 SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

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

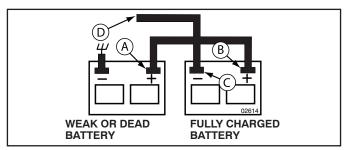


FIG. 34

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

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 35)

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

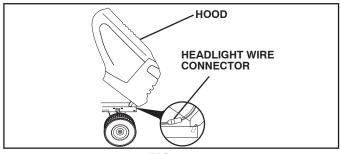


FIG. 35

ENGINE

TO ADJUST THROTTLE CONTROL CABLE

The throttle control has been preset at the factory and adjustment should not be necessary. If adjustment is necessary, see engine manual.

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, see engine manual.

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.



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

TRACTOR

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

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

BATTERY

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

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CANATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Empty the fuel tank by starting 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 empty the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

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

CYLINDER(S)

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

OTHER

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

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

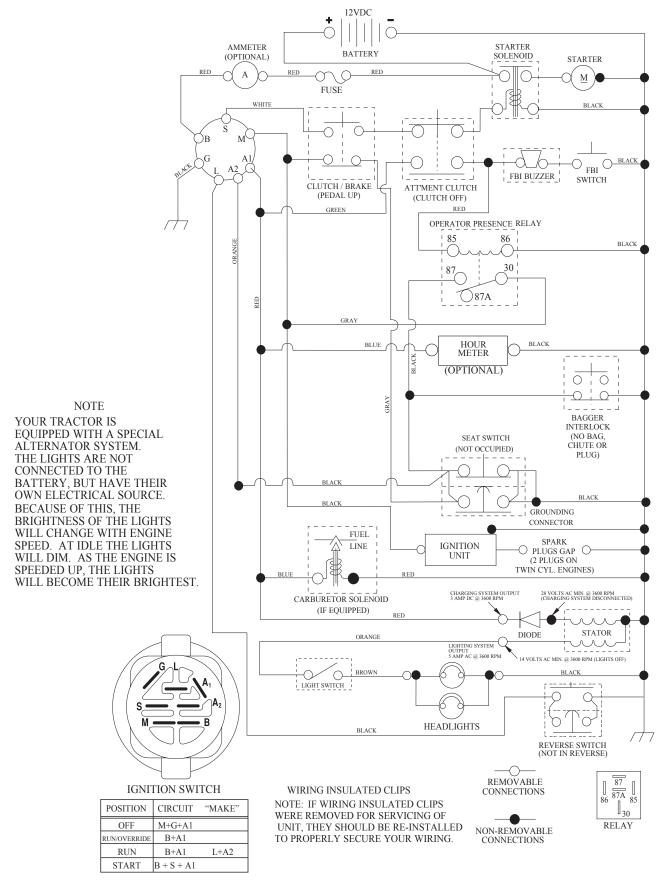
PROBLEM	CAUSE	CORRECTION
Will not start	 Out of fuel. Engine not "CHOKED" properly. Engine flooded. Bad spark plug. Dirty air filter. Dirty fuel filter. Water in fuel. Loose or damaged wiring. Carburetor out of adjustment. 	 Fill fuel tank. See "TO START ENGINE" in Operation section. Wait several minutes before attempting to start. Replace spark plug. Clean/replace air filter. Replace fuel filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Hard to start	 Dirty air filter. Bad spark plug. Weak or dead battery. Dirty fuel filter. Stale or dirty fuel. Loose or damaged wiring. Carburetor out of adjustment. 8. Engine valves out of adjustment.	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Engine will not turn over	1. Brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	 Depress brake pedal. Disengage attachment clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact an authorized service center/department.
Engine clicks but will not start	Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter.	Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter.
Loss of power	 Cutting too much grass/too fast. Throttle in "CHOKE" position. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Dirty fuel filter. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Carburetor out of adjustment. Engine valves out of adjustment. 	 Raise cutting height/reduce speed. Adjust throttle control. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. See "To Adjust Carburetor" in Service Adjustments section. Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s).	Replace blade. Tighten blade bolt. Replace blade mandrel. Tighten loose part(s). Replace damaged parts.

TROUBLESHOOTING POINTS

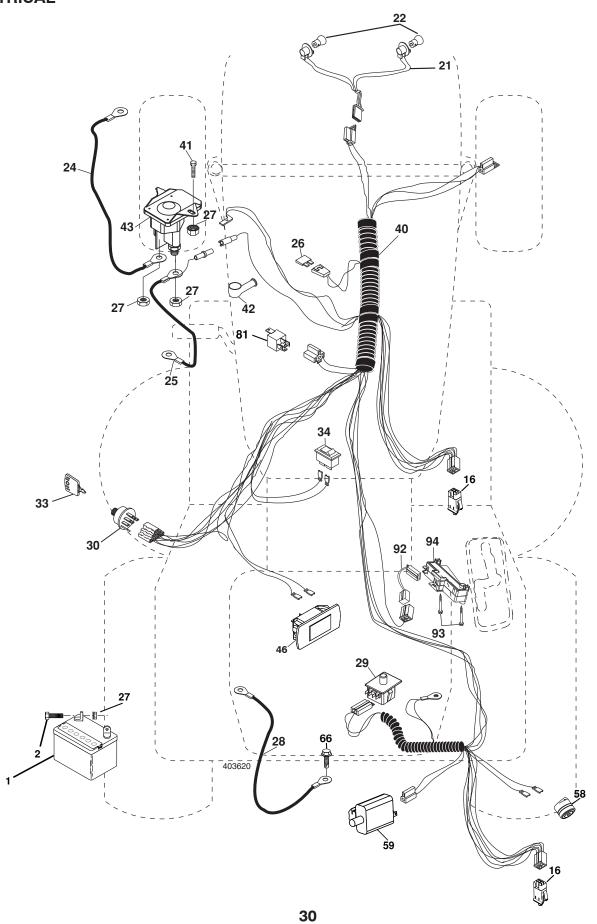
PROBLEM	CAUSE	CORRECTION		
Engine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/ department.		
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Replace blade mandrel. Clean around mandrels to open vent holes. 		
Mower blades will not rotate	 Obstruction in clutch mechanism. Worn/damaged mower drive belt. Frozen idler pulley. Frozen blade mandrel. 	 Remove obstruction. Replace mower drive belt. Replace idler pulley. Replace blade mandrel. 		
Poor grass discharge	Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels.	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. 		
Headlight(s) not working (if so equipped)	 Switch is "OFF". Bulb(s) or lamp(s) burned out. Faulty light switch. Loose or damaged wiring. Blown fuse. 	 Turn switch "ON". Replace bulb(s) or lamp(s). Check/replace light switch. Check wiring and connections. Replace fuse. 		
Battery will not charge	 Bad battery cell(s). Poor cable connections. Faulty regulator (if so equipped). Faulty alternator. 	 Replace battery. Check/clean all connections. Replace regulator. Replace alternator. 		
Loss of drive	Freewheel control in "disengaged" position. Motion drive belt worn, damaged, or broken. Air trapped in transmission during shipment or servicing.	 Place freewheel control in "engaged" position. Replace motion drive belt. Purge transmission. 		
Engine "backfires" when turning engine "OFF"	Engine throttle control not set between half and full speed (fast) position before stopping engine.	Move throttle control between half and full speed (fast) position before stopping engine.		
Mower will not operate	Bagger or optional rear discharge deflector is not installed correctly.	Check bagger or optional rear discharge deflector for proper installation		

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 SCHEMATIC

SCH08



TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 ELECTRICAL

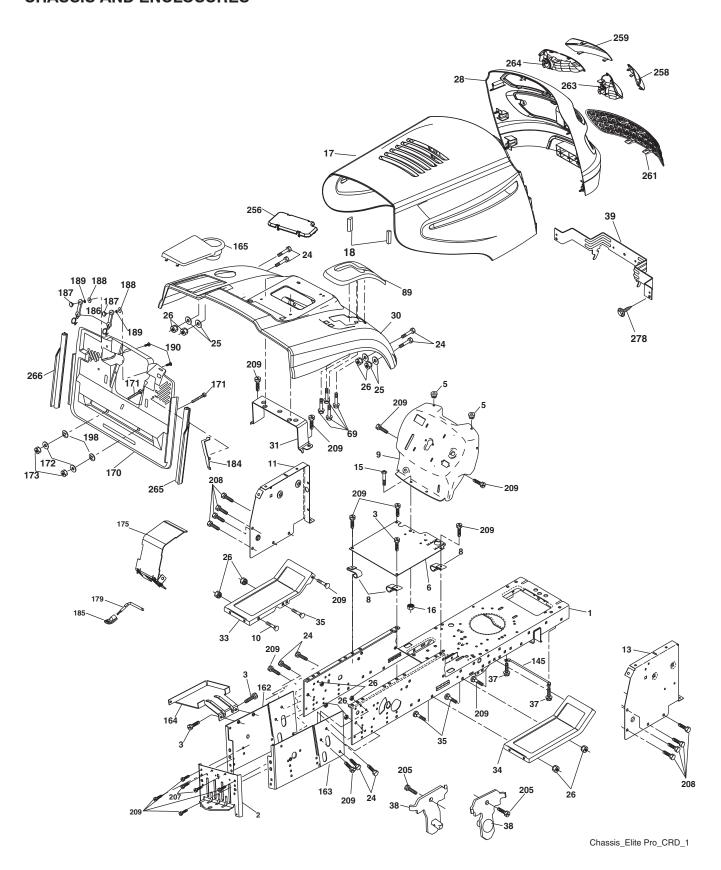


TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 ELECTRICAL

PART NO.	DESCRIPTION
532 16 34-65	Battery
874 76 04-12	Bolt Hex Hd 1/4-20 unc x 3/4
532 17 61-38	
	Harness Asm Light W/4152J
	Bulb Light #1156
	Cable Starter 6 Ga. 11" Red
	,
	Fuse
	, ,
	5
	Switch Light/Reset B/B/Red
	Harness Ignition
	Bolt Flk Fin Hex 1/4-20 unc x 1/2
	Solenoid
532 19 81-38	
532 16 94-19	
532 18 03-79	Switch FBI CRD
817 49 06-08	Screw Thdrol 3/8-16 x 1/2 Ty-Tt
532 10 97-48	Relay Asm
532 19 66-15	Harness Pigtail Console ROS
532 19 25-40	Screw Plastite 10-14 x 2.0
532 19 18-34	Module Reverse ROS
	NO. 532 16 34-65 874 76 04-12 532 17 61-38 532 18 37-59 532 00 41-52 532 12 47-80 532 16 59-87 532 17 51-58 873 51 04-00 532 12 77-25 532 19 27-49 532 19 33-50 532 41 19-35 532 11 07-12 532 40 36-20 871 11 04-08 532 13 15-63 532 19 25-07 532 19 81-38 532 16 94-19 532 18 03-79 817 49 06-08 532 19 97-48 532 19 66-15 532 19 25-40

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

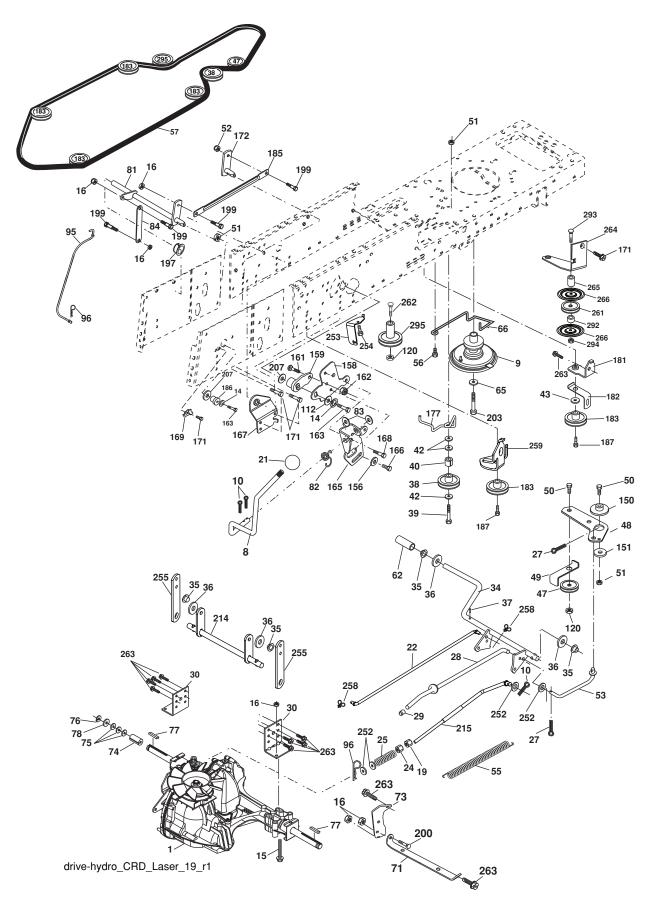
TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 CHASSIS AND ENCLOSURES



TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532 17 46-20	Chassis	164	532 16 56-05	Support Battery CRD
2	532 18 03-84		165	532 18 13-56	Cover Battery
3	817 06 06-12		170	532 19 94-88	Backplate CRD
5	532 15 52-72	Bumper Hood/Dash	171	872 14 06-20	Bolt Rdhd Sqnk 3/8-16 x 2-1/2 Gr. 5
6	532 18 44-19	Saddle	172	819 13 20-16	Washer 13/32 x 1-1/4 x 16 Ga.
8	532 12 64-71	Clip Insulator 13/32 Mtg. Hole	173	873 51 06-00	Nut, Keps Hex 3/8-16 unc
9	532 40 51-14	Dash	175	532 18 82-03	Door Trap
10	872 14 06-08	Bolt, Carriage 3/8-16 x 3/4	179	532 18 82-02	Rod Pivot FBI CRD
11	532 17 49-96	Panel, Dash, L.H.	184	532 17 46-62	Bracket Actuator Bagger CRD
13	532 18 69-52	Panel, Asm. Dash R.H.	185	817 96 85-05	Knob Rod Brake Parking
15	874 18 05-12	Screw, Machine, Truss Head	186	532 16 07-93	Latch Asm Mulch/Bagger
		5/16-18 unc x 3/4	187	532 12 50-04	Nut Weld
16	873 51 05-00	Nut	188	819 06 12-16	
17	532 18 65-80	Hood	189	810 07 10-00	
18	532 18 49-21	Bumper Hood	190	871 08 10-10	
24	874 78 06-16	Bolt	198	532 16 89-37	
25	819 13 13-12	Washer 13/32 x 13/16 x 12 Ga.	205	817 49 06-08	
26	873 80 06-00	Nut	207	817 67 05-08	
28	532 18 82-24	Grille /Lens Asm (Includes Key	208	817 67 06-08	
		nos. 258-261)	209	817 00 06-12	
30	532 19 73-64		256	532 18 13-61	
31	532 16 51-56		258	532 18 97-55	
33		Footrest, L.H.	259	532 18 97-54	
34	532 18 25-08	Footrest, R.H.	261	532 18 97-53	
35	872 11 06-06	Bolt	263	532 18 38-33	
37	817 49 05-08		264	532 18 38-32	
38	532 18 17-48		265	532 18 57-04	
39	532 17 47-14		266	532 18 57-03	
69		Screw Hx Wsh Hi-Lo 1/4-1/2	278	532 19 16-11	
89		Console Crd Auto		532 00 54-79	Plug, Button
145		Rod Pivot Chassis/Hood		532 18 78-01	Plug Switch Light
162		Bracket Exten Chassis Lh CRD			
163	532 18 03-83	Bracket Exten Chassis Rh CRD	NOTI	E: All compone 1 inch = 25.4	nt dimensions given in U.S. inches. mm.

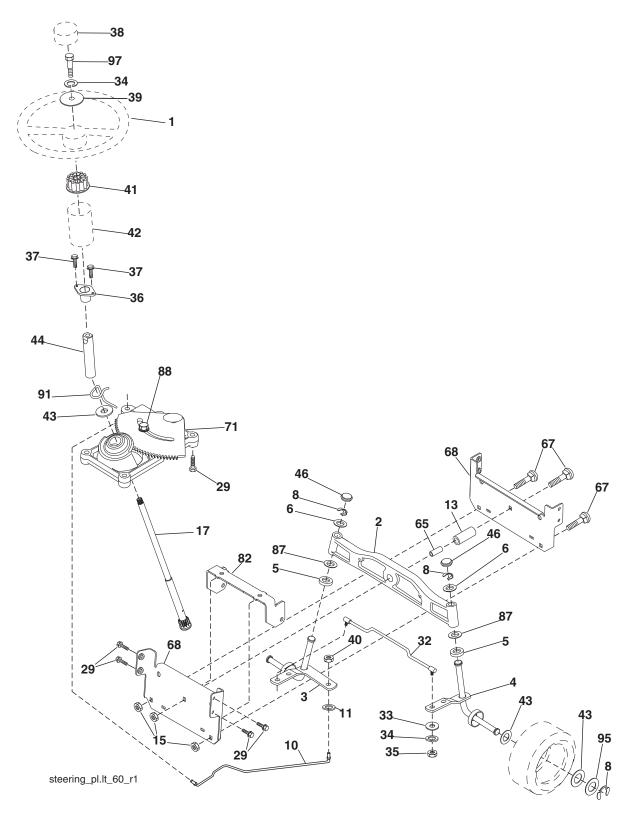
TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 DRIVE



TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1		Transaxle Hydro Gear 321-0510	95	532 17 00-15	Control Asm Bypass Hydro
		(Order parts from transaxle manu	96	532 12 47-88	
0	532 19 27-06	facturer)	112	819 09 12-10	Washer 9/32 x 3/4 x 10 Ga.
8 9	532 18 03-54	Rod, Shift Fender Adjust Lt Clutch Asm Noram	120 150	873 90 06-00 532 16 58-50	Nut Lock Flg. 3/8-16 unc Bushing, Bellcrank Grnd Dr
10	876 02 04-16	Pin, Cotter 1/8 x 1	151	819 13 32-10	Washer 13/32 x 2 x 10 Ga.
14		Washer, Lock Hvy Helical	156	532 16 60-02	Washer Srrted 5/16 ID x 1.125
15	874 49 05-44		158	532 16 55-89	Bracket Shift Mount
16	873 80 05-00		159	532 18 39-00	Hub Shift
19	873 80 06-00	Nut Lock Hex w/Insert 3/8-16 unc	161	872 14 04-06	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
21	532 12 66-39	Knob	162	873 68 04-00	Nut Crownlock 1/4-20 unc
22	532 17 56-07	Rod, Brake	163	874 78 04-16	Bolt Hex Fin 1/4-20 unc x 1 Gr 5
24	873 35 06-00	Nut	165	532 16 56-23	Bracket Pivot Lever
25	532 19 20-36	Spring, Rod, Brake	166	817 49 05-10	Screw 5/16-18 x 5/8
26	819 13 13-16		167	532 16 55-88	Bracket Support Shift CRD
27		Pin, Cotter 1/8 x 3/4	168	532 16 54-92	
28		Rod, Parking Brake	169	532 16 55-80	Plate Fastening Lt
29 30	532 07 16-73		171	817 49 06-08	Screw Thdrol 3/8-16 x 1/2 Ty-Tt
34	532 16 95-92 532 17 55-78		172 177	532 17 02-71 532 16 59-32	Shaft Asm Shifter Frt CRD Keeper Flat Idler 3.06" CRD
35	532 12 01-83		181	532 18 02-11	Bracket Idler Ground Drive CRD
36	819 21 16-16		182	532 18 26-82	
37		Pin, Roll 3/16 x 1"	183	532 19 95-32	Pulley V-Idler 2.50" Od CRD
38		Pulley Flat Composite 3.06"	185	532 17 00-08	Link Shift
39	874 76 06-44		186	532 16 56-14	
40	532 12 49-65	Spacer, Split 395 x 59 Bzp	187	817 58 05-20	Screw Thdrol 5/16-18 x 1.25
42		Washer 13/32 x 13/16 x 12 Ga.	197	532 16 96-13	Nyliner Snap-In 5/8
43		Washer 11/32 x 5/8 x 12 Ga.	199	532 16 96-12	
47	532 12 77-83		200	872 14 05-08	
48	532 15 44-07		203	871 17 07-80	
49 50	532 12 32-05 872 11 06-12		207 214	532 16 98-45 532 17 56-09	Washer Nylon Rear Shaft Asm. Brake
51	873 68 06-00		215	532 17 56-52	Rod Brake Hydro
52	873 68 05-00		252	819 13 16-16	
53		Link, Clutch 7.66	253	532 17 50-28	
55		Spring, Return, Clutch	254		Screw 3/8-16 x 1
56		Screw 3/8-16 x 1-1/4	255	532 17 56-08	
57	532 17 01-40	V-Belt Kev 112" 0650 CRD	258	532 17 80-62	
62	532 12 48-72		259	532 18 02-12	Bracket Pulley
65	810 04 07-00		261		Pulley Idler
66	532 15 47-78	Keeper, Belt Engine F-Proof	262	872 11 06-22	bolt Rdhd 3/8-16 unc x 2-3/4 Gr. 5
71	532 16 91-83	Strap, Torque, Lh	263	817 00 06-12	
73 74	532 16 91-82		264	532 19 76-08	
74 75	532 13 70-57	Spacer, Split Washer 25/32 x 1-1/4 x 16 Ga.	265	532 18 20-13	
76	532 12 17-49 812 00 00-01	Ring, E	266 292	532 18 20-61 532 40 02-71	Shield Idler Mower Spacer Noram
70 77	532 12 35-83	Key, Square	293	872 14 06-28	Bolt Rdhd Sqnk 3/8-16 x 3-1/2
78	532 12 17-48	Washer 25/32 x 1-5/8 x 16 Ga.	294	532 19 70-33	Nut Jam 3/8-16
81	532 17 00-06	Asm, Shaft, Cross Rear	295	532 17 91-14	
82	532 16 57-11	Spring, Torsion			, i
83	819 17 12-16	Washer 17/32 x 3/4 x 16 Ga.	NOT		nt dimensions given in U.S. inches
84	532 17 00-07	Link, Transaxle		1 inch = 25.4	F ITIITI

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 STEERING ASSEMBLY

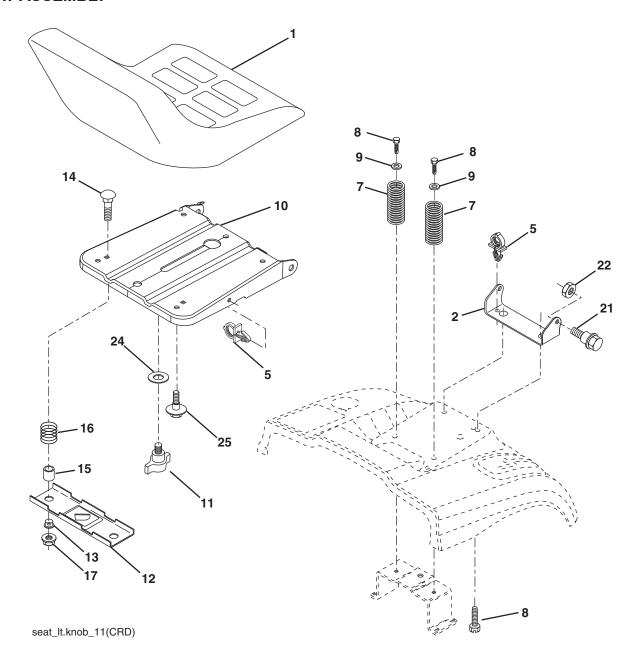


TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1	532 19 45-95	Steering Wheel
2	532 18 47-06	Front Axle Assembly
3	532 16 98-40	Spindle Assembly, L.H.
4	532 16 98-39	Spindle Assembly, R.H.
5	532 12 49-31	Bearing, Race, Thrust, Hardened
6	532 12 17-48	Washer 25/32 x 1-5/8 x 16 Ga.
8	812 00 00-29	Ring, Clip
10	532 17 51-21	Link, Drag
11	810 04 06-00	Washer, Lock
13 15	532 13 65-18	Spacer Axle
17	532 14 52-12 532 19 07-53	Nut Hex Flange Lock
29	817 00 06-12	Shaft Assembly, Steering
32	532 17 01-62	Screw 3/8-16 x 3/4
33	819 11 12-16	Rod, Tie Washer 11/32 x 3/4 x 16 Ga.
34	810 04 05-00	Washer Lock Hvy Hlcl Spr 5/16
35	873 54 05-00	Crownlock Nut 5/16-24 unf
36	532 15 50-99	Bushing, Steering
37	532 15 29-27	Screw TT #I0-32 x 5 x 3/8 Flange
38	532 19 46-03	Cap Wheel Steering
39	819 11 38-12	Washer 11/32 ID x 2-3/8 OD 12 Ga.
40	873 54 06-00	Nut Crownlock 3/8-24
41	532 18 67-37	Adaptor, Steering Wheel
42	532 16 96-33	Boot, Steering Dash P/L Mtl
43	532 12 17-49	Washer 25/32 x 1-1/4 x 16 Ga.
44	532 19 07-52	Extension Steering
46	532 12 12-32	Cap, Spindle
65	532 16 03-67	Spacer Axle
67	872 11 06-18	Bolt Rdhd Sq 3/8-16 x 2-1/4
68	532 16 98-27	Brace Axle
71	532 17 51-46	Steering Asm.
82	532 19 99-78	Bracket Susp. Chassis Front
87	532 17 39-66	Washer Flat .781 x 1-1/2 x .14
88	532 17 51-18	Bolt Shoulder 7/16-20 unc
91 05	532 17 55-53	Clip Steering
95 07	532 18 89-67	Washer Hardened .739 x 1.637 x 060
97	874 78 05-64	Bolt 5/16-18 unc x 4" L Gr. 5

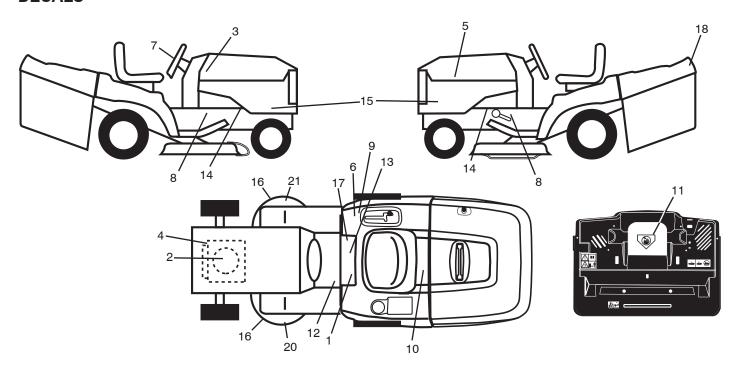
NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 SEAT ASSEMBLY



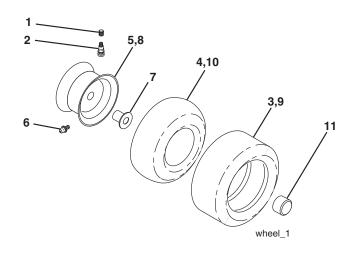
KE NO		DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11	532 16 63-69	Bracket Pnt Pivot Seat (blk) Bolt Fin Hex 3/8-16 x 1 Washer Flat 13/32 x 1 x 10 Ga. Clip Push In Hinged Nut Lock Hex W/Ins 3/8-16 Spring Seat Cprsn 2 250 Blk Zi Screw 3/8-16 x 1.5 Washer 13/32 x 1 x 14 Ga. Pan Pnt Seat (blk) Knob Seat	13 14 15 16 17 21 22 24 25	532 12 12-48 872 05 04-12 532 13 43-00 532 12 12-50 532 12 39-76 532 17 18-52 873 80 05-00 819 17 19-12 532 12 70-18	Bushing Snap Blk Nyl 50 ld Bolt Rdhd Sht Nk 1/4-20 x 1-1/2 Spacer Split Spring Cprsn Nut Lock 1/4 Lge Flg Gr. 5 Zinc Bolt Shoulder 5/16-18 unc-2A Nut Hex Lock w/lns 5/16-18 Washer 17/32 x 1-3/16 x 12 Ga. Bolt Shoulder 5/16-18 x .62 nt dimensions given in U.S. inches.

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13	532 40 03-89 532 18 96-83 532 18 61-63 532 19 68-41 532 16 88-69 532 17 27-43 532 40 36-21 532 12 44-33 532 14 50-05 532 18 21-66 532 15 97-37 532 16 69-60	Decal, Warning Syms. CE Decal, Hp Engine Decal, Hood RH Decal, Warning Eng. Syms. Decal, Hood LH Decal, Tick Mark Decal, Ins Strg Whl Decal, Chassis Decal, 80 DBA Decal, Bat Dan/Poi P/L Sym Wpn Decal, Mower Cut Finger CE Decal, Bypass	14 15 16 17 18 20 21 	532 16 62-86 532 18 78-11 532 13 83-11 532 18 04-35 532 18 10-90	Decal, Enviro Deck Decal, Lift Handle Decal, Plate Rear

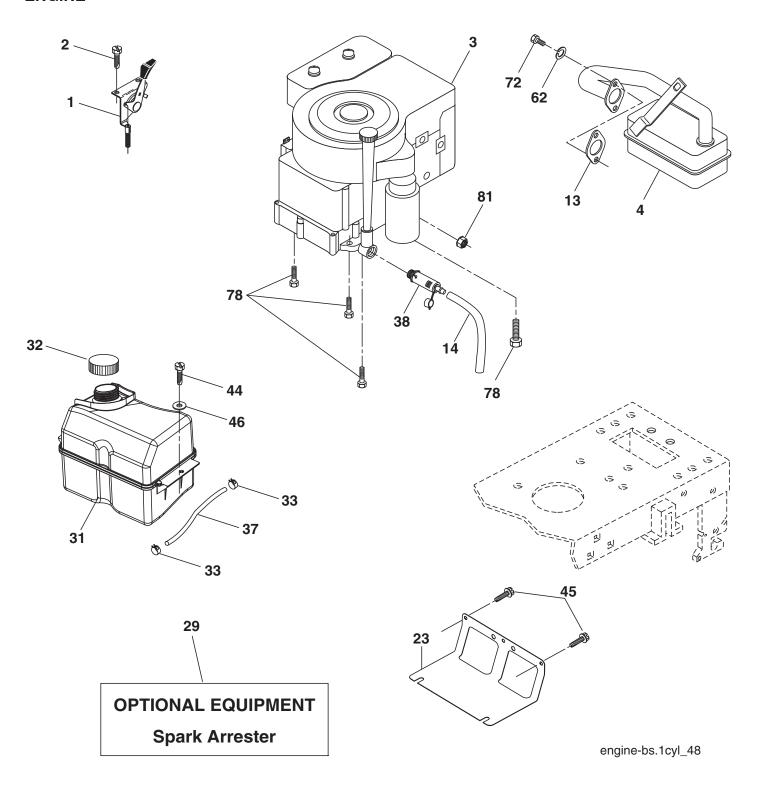
WHEELS & TIRES



KEY NO.	PART NO.	DESCRIPTION
1	532 05 91-92	Cap Valve Tire
2	532 06 51-39	Stem Valve
3	532 10 62-22	Tire F Ts 15 x 6 0 - 6 Service
4	532 05 99-04	Tube Inner Front #35060
5	532 12 51-21	Rim Asm 6" front Service
6	532 12 49-57	Fitting Grease
7	532 12 49-59	Bearing Flange
8	532 12 51-22	Rim Asm 8" rear Service
9	532 13 84-68	Tire R Ts 20 x 8-8 C. Service
10	532 12 49-26	Tube Rear 9 5 x 8 Service
11	532 19 32-68	Cap Axle Blk 1 50 x 1 00
	532 14 43-34	Sealant, Tire (10 oz. tube)

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

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 ENGINE

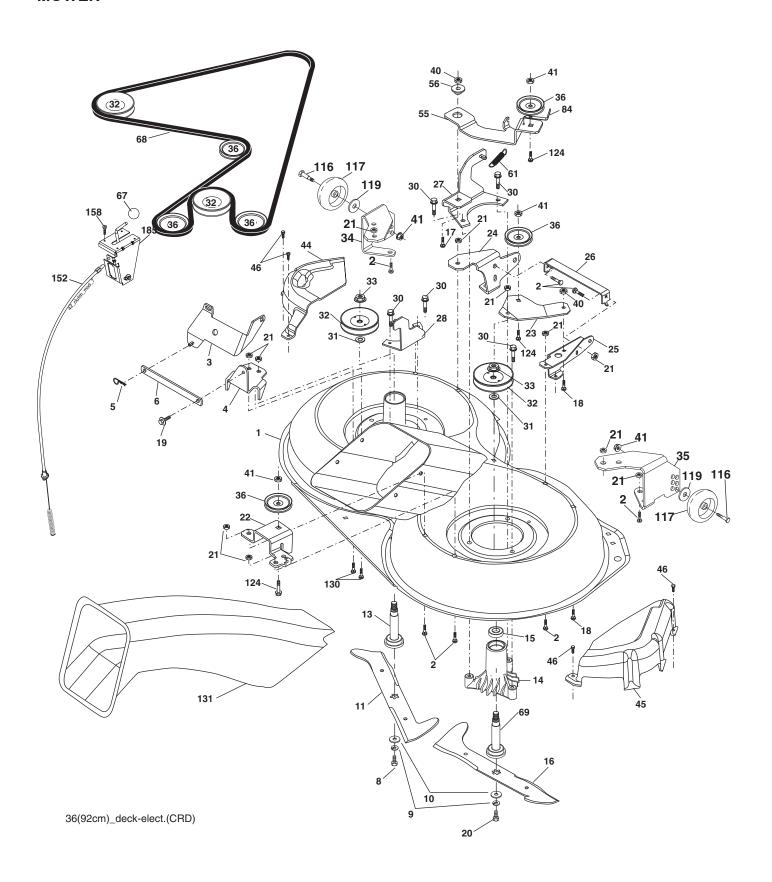


TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 ENGINE

KEY NO.	PART NO.	DESCRIPTION
1	532 17 05-51	•
2	817 72 04-08	, ,
3		Engine B&S Model 283H07
		(Order parts from engine manufacturer)
4	532 13 73-52	Muffler
13	532 16 52-91	Gasket Muffler
14	532 14 84-56	Tube Drain Oil Easy
23	532 16 98-37	Shield Brn/Dbr Guard
29	532 13 71-80	Kit Spark Arrestor (Flat Scrn)
31	532 18 55-34	Tank Fuel
32	532 19 77-25	Cap Asm Fuel Top
33	532 12 34-87	Clamp Hose Blk
37	532 13 70-40	Line Fuel
38	532 18 16-54	Plug Drain Oil Easy
44	817 67 04-12	Screw Hexwsh thdrol 1/4-20 x 3/4
45	817 00 06-12	Screw Hexwsh Thdr 3/8-16 x 3/4
46	819 09 14-16	Washer 9/32 x 7/8 x 16 Ga.
62	810 01 05-00	Washer Split
72	532 19 23-34	Screw Socket Hd 5/16-18 x .75
78	817 06 06-20	Screw 3/8-16 x 1/4
81	873 51 04-00	Nut Keps Hex 1/4-20 unc

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

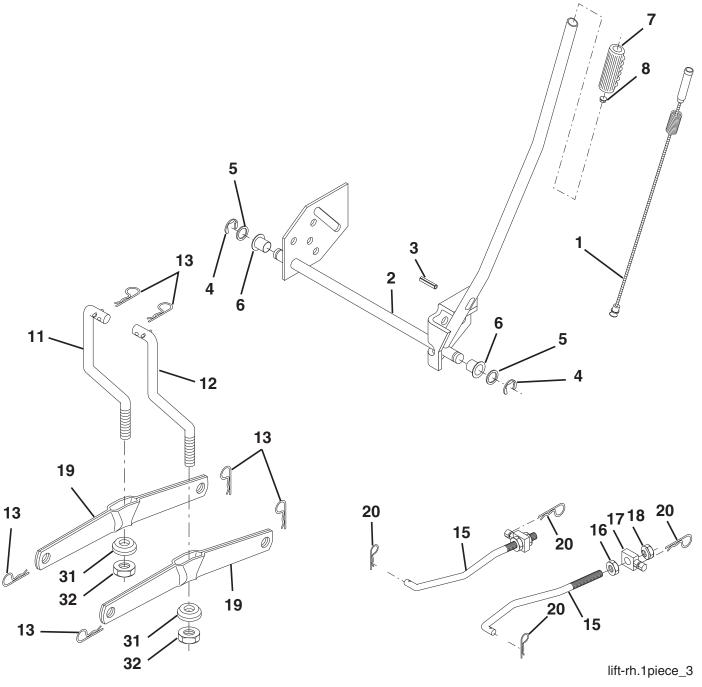
TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 MOWER



TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 MOWER

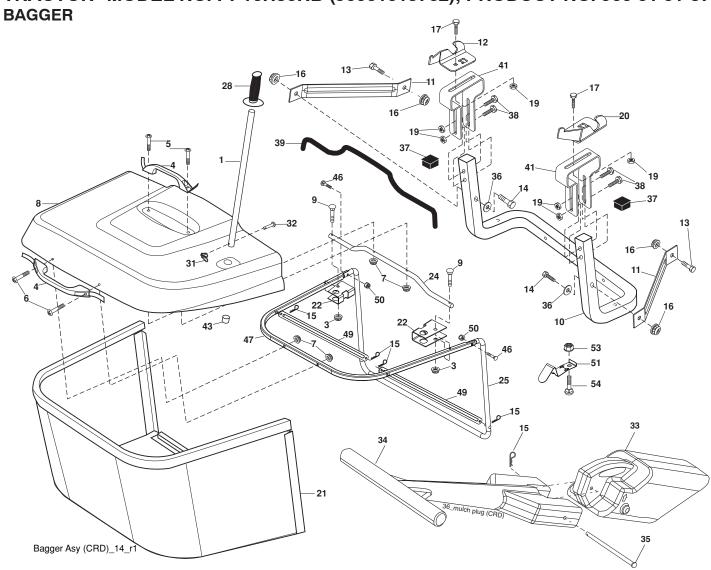
KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	532 40 01-08	Housing Asm. Mower	44	532 17 55-38	Cover Mandrel Lh
2	872 14 05-06	Bolt Rdhd Sqnk 5/16-18 unc x 3/4	45	532 17 55-39	
3	532 16 55-69	Bracket Asm. S-Bar Chass	46	532 13 77-29	Screw Thd Roll 1/4-20 x 5/8
4	532 16 55-58	Bracket Bar Sway Deck	55	532 19 94-98	Arm Idler
5	532 12 46-70	Retainer Spring	56	532 16 57-23	
6	532 16 55-57	Bar Sway	61	532 16 59-45	Spring Tension Belt
8	532 18 17-12	Bolt 3/8-24 x 1.25 Gr. 8 Patched	67	532 12 47-00	Knob
9		Washer Lock Hvy 3/8 Unplated	68	532 18 02-17	Hex-Belt Mower
11	532 18 63-85		69	532 16 54-82	Shaft Asm W/Lwr Brg Rh Thd
13	532 13 76-45		84	532 15 60-85	Keeper Belt Idler
14	532 12 87-74	Housing Mandrel Vented (Machd)	116	532 18 42-19	Bolt Shoulder
15	532 11 04-85	Bearing Ball Mandrel	117	532 17 48-73	Wheel Gage
16	532 18 63-86		118	873 93 06-00	Nut Centerlock 3/8-16 unc
17		Nut Crownlock 3/8-16 unc	119	819 12 14-14	Washer 3/8 x 7/8 x 14 Ga.
18	872 11 06-06		124	872 11 06-12	Bolt Carr Sh 3/8-16 x 1-1/2 Gr5
19	532 13 28-27		130	872 11 05-06	Bolt Rdhdsqnk 5/16-18 unc x 3/4
20	532 18 17-13	Bolt 3/8-24 x 1.25 Gr. 8 Ptch	131	532 16 56-61	Chute Bagger CRD 92cm
21	873 68 05-00	Nut Crown Lock 5/16-18	152	532 17 60-74	Cable Clutch
22	532 19 95-90	Bracket Idler Sprt RR	158	817 72 04-08	Screw 1/4-20 x 1/2
23	532 16 54-46	Bracket Idler Sprt RF	185	532 18 82-34	Head Asm Cable Clutch
24	532 16 52-42		254	817 00 06-16	Screw 3/8-16 x 1
25	532 16 52-44	Bracket Suspension RF	295	532 41 21-71	Baffle Front
26	532 40 01-10	Brace Support Susp Frt CRD	296	872 14 04-06	Bolt RDHD SQNK 1/4-20 x 3/4 Gr. 5
27	532 16 55-68	Bracket Asm. Susp RR	297	873 93 04-00	Nut Centerlock 1/4-20 unc
28	532 16 55-67	Bracket Asm. Susp LR		532 18 18-57	Mandrel Assembly (Includes hous-
30	532 17 39-84	Screw Thd Rolling Dod.PT Hex			ing, shaft assembly, and bearing
31	532 18 76-90	Washer Spacer Mower Vented			only - pulley/nut/washer and blade
32	532 15 35-31	Mandrel Pulleys			bolt/washers not included)
33	532 40 02-34	Nut Flg Top Lock		532 18 18-58	Mandrel Asm CRD Lh Threads VC
34	532 40 01-07	Bracket Gauge Wheel Lf		532 41 37-11	Replacement Mower Complete
35	532 40 01-06	Bracket Gauge Wheel Rf			
36	532 14 67-63	Pulley Idler V-Groove Dim 4.25	NOT	E. All compans	nt dimonoione givon in LLC inches
40	873 68 06-00	Nut Crownlock 3/8-16 unc	NOTE	:: All compone 1 inch = 25.4	nt dimensions given in U.S. inches
41	873 90 06-00	Nut Flangelock 3/8-16 unc		1 111011 = 23.4	• 111111

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57 MOWER LIFT



KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	532 19 84-17	Wire Asm Inner Spring W/ Plunger	15	532 17 32-88	Link Front
2	532 19 80-70	Shaft Asm. Lift	16	873 35 08-00	Nut Jam Hex 1/2-13 unc
3	532 18 88-22	Pin Groove	17	532 17 56-89	Trunnion Blk Zinc
4	812 00 00-02	E Ring #5133-62	18	873 80 08-00	Nut Lock w/wsh 1/2-13 unc
5	819 21 16-21		19	532 13 98-68	Arm Suspension Mower
6	532 12 01-83		20	532 19 42-09	Retainer Spring
7	532 10 94-13		31	532 16 98-65	Bearing, Pvt. Lift.
8	532 12 43-85		32		Nut Crownlock 3/8-24
11	532 16 58-29	Link Asm Lift L.H.			
12	532 16 58-31	Link Asm Lift R.H.			
13	532 12 46-70	Retainer Spring	NOTI	E: All compone 1 inch = 25.4	nt dimensions given in U.S. inches mm

TRACTOR--MODEL NO. PP16H36RB (96061015702), PRODUCT NO. 960 61 01-57

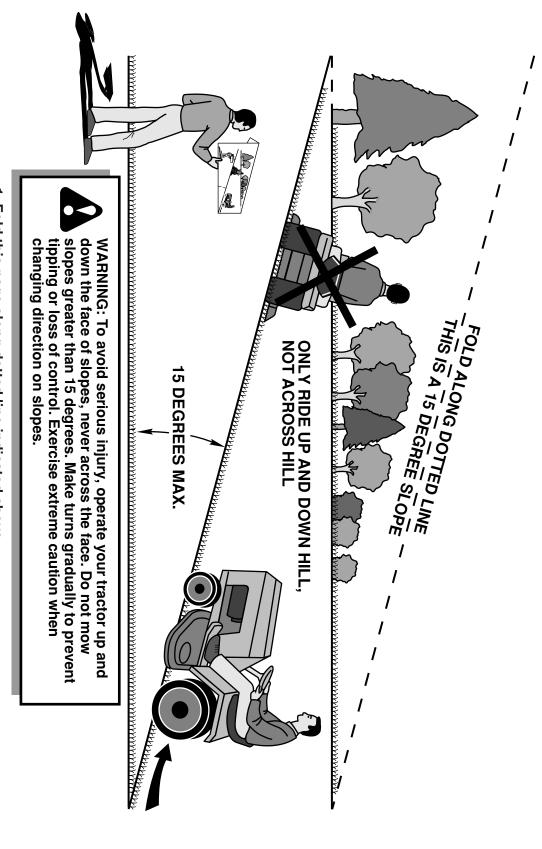


KEY	PART		KEY	PART	
NO.	NO.	DESCRIPTION	NO.	NO.	DESCRIPTION
1	532 16 52-49	Tube Handle Bagger CRD	28	532 16 57-87	Grip Handle
3	532 12 39-76	Nut Lock 1/4 Lge Flg Gr. 5 Zinc	31	532 16 94-84	Retainer Clip
4	532 16 99-16	Handle Bagger w/Lvrs Blk CRD	32	532 12 68-75	Rivet Rd Hd Drilled 3/8 Dia.
5	874 98 10-24	Screw Pan Head #10-24 x 1.50	33	532 16 55-71	Plug Mulcher
6	874 98 10-32	Screw Pan Hd	34	532 16 55-70	Handle Mulcher
7	873 40 10-00	Nut Wiz Lock Hex Serr/Hd 10-24	35	532 16 55-72	Pin Mulcher
8	532 18 25-14	Cover Bagger	36	819 13 20-12	Washer 13/32 x 1-1/4 x 12 Ga.
9	872 14 04-18	Bolt Carr. 1/4-20 x 2.25d x Gr. 5	37	532 17 54-01	Plug Support Bagger CRD
10	532 18 12-82	Tube Support Bagger CRD	38	872 01 05-20	Bolt 5/16-18 x 2-1/2
11	532 16 57-19	Bracket Support Upper Bag CRD	39	532 18 09-85	Seal
12	532 18 88-48	Bracket Pivot LH	41	532 16 96-83	Bracket Pnt Adj Pvt Bagger CRD
13	874 76 06-12	Bolt Fin Hex 3/8-16 unc x 3/4	43	532 17 40-83	Plug Tubing End
14	874 52 06-36	Bolt RDHD SQNK 3/8-16 x 2-1/4 Gr. 5	46	872 11 05-10	Bolt carr 5/16-18 x 1-1/4 Gr. 5
15	532 12 46-70	Retainer Spring	47	532 19 37-04	Tube Upper
16	873 90 06-00	Nut Lock Flg 3/8-16 unc	49	532 19 33-05	Bar Spreader
17	872 14 05-06	Bolt Rdhd Sht Sqnk 5/16-18 unc x 3/4	50	873 80 05-00	Nut Lock Hx W/Insert 5/16-18 unc
19	873 90 05-00	Nut Lock Hex Flange 5/16-18	51	532 19 99-03	Latch Spring
20	532 18 88-47	Bracket Pivot RH	52	872 14 04-06	Bolt Rdhd Sqnk 1/4-20 x 3/4 Gr. 5
21	532 19 38-38	Bag Asm CRD	53	873 51 04-00	Nut Keps Hex 1/4-20 unc
22	532 16 57-81	Bracket Side Bagger CRD			
24	532 16 57-83	Tube Pivot Bagger CRD	NOT		nt dimensions given in U.S. inches
25	532 19 37-05	Tube Front Bagger CRD		1 inch = 25.4	mm

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SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION



- 1. Fold this page along dotted line indicated above
- 2. Hold page before you so that its left edge is vertically parallel to a tree trunk or other upright structure.
- 3. Sight across the fold in the direction of hill slope you want to measure
- 4. Compare the angle of the fold with the slope of the hill.