Poulan PRO

PARTS AND SERVICE

This product has been expertly engineered and carefully manufactured to rigid quality standards. As with all mechanical products, some adjustments or part replacement may be necessary during the life of your unit.

For Parts and service, contact our authorized distributor: call 1-800-849-1297

- · For replacement parts, have available the following information:
 - a. Model Number/Manufacturer's I.D. Number
 - b. Description of part.

For Technical Assistance: call 1-800-829-5886

For a Parts Manual, go to our website: www.poulan-pro.com

NOTE: HOP provides parts and service through its authorized distributors and dealers; therefore, all requests for parts and service should be directed to your local dealer(s). The philosophy of HOP is to continually improve all of its products. If the operating characteristics or the appearance of your product differs from those described in this Manual, please contact your local dealer for updated information and assistance. Operator's Manual 30" RIDING MOWER SIDE DISCHARGE ELECTRIC START

Poulan PRO



Catalog No. **PB30**

IMPORTANT:

Read and follow all Safety Rules and Instructions before operating this equipment.

Patents Pending

Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.

532 44 20-33 Rev. 3

02.23.11 TH/SR

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WARRANTY

LIMITED WARRANTY

The Manufacturer warrants to the original consumer purchaser that this product as manufactured is free from defects in materials and workmanship. For a period of two (2) years from date of purchase by the original consumer purchaser, we will repair or replace, at our option, without charge for parts or labor incurred in replacing parts, any part which we find to be defective due to materials or workmanship. This Warranty is subject to the following limitations and exclusions.

- 1. This warranty does not apply to the engine, battery (except as noted below) or components parts thereof. Please refer to the applicable manufacturer's warranty on these items.
- Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by the manufacturer.
- 3. Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery which we find to be defective in manufacture, during the first ninety (90) days of ownership. After ninety (90) days, we will exchange the Battery, charging you 1/12 of the price of a new Battery for each full month from the date of the original sale. Battery must be maintained in accordance with the instructions furnished.
- 4. The Warranty does not apply to any products used for rental or commercial purposes.
- 5. This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
- 6. Exclusions: Excluded from this Warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
- 7. In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

Should you have any unanswered questions concerning this Warranty, please contact:

| HOP |
|--|
| Outdoor Products Customer Service Dept |
| 9335 Harris Corners Parkway |
| Charlotte, NC 28269 USA |
| |

In Canada contact: HOP 5855 Terry Fox Way Mississauga, Ontario L5V 3E4

giving the model number, serial number and date of purchase of your product and the name and address of the authorized dealer from whom it was purchased.

THIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRAN-TIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR EXPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitations of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other rights which vary from locale to locale.

This is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

SERVICE NOTES

SERVICE NOTES

SAFETY RULES

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 rid-ing mower.

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

WARNING:This unit is not intended for the use of wheel weights. Only use attachments designed specifically for this riding mower.

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

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 blade.
- 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 blade when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge chute, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blade, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blade 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 chute.
- 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.
- 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.

SAFETY RULES



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 (15° Max), 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.
- · If machine stops while going uphill, disengage blade, shift into reverse and back down slowly.
- · Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blade 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.

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.

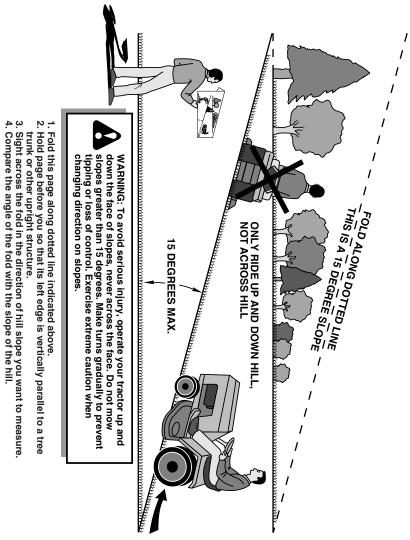
- · Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- · Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and ٠ down for small children.
- Never carry children, even with the blade shut off. 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. 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.

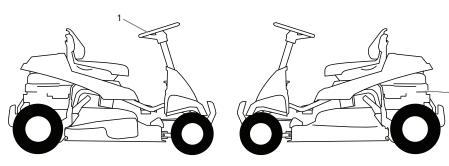
measure

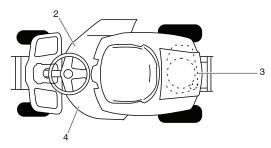
- · Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- · Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliances.



RIDING MOWER DECALS

MODEL NUMBER PB30 (96022001200) PRODUCT NUMBER 960 22 00-12





| KEY NO. | PART NO. | DESCRIPTION |
|------------|--------------|------------------------|
| 1 | 532 44 21-17 | DECAL. STEERING WHEEL |
| 2 | 532 42 15-43 | DECAL, V-BELT SCH 30" |
| 3 | 532 43 81-60 | DECAL, LABEL. EPA |
| 4 | 532 44 14-15 | DECAL, DECK/DEFLECTOR |
| 5 | 532 40 88-07 | DECAL, ENGINE H.P. |
| | 532 44 20-33 | MANUAL OWNER'S ENGLISH |
| | 532 44 20-34 | MANUAL OWNER'S SPANISH |
| | | |

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

SAFETY RULES

- 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 fuel-soaked 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 chute frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blade is 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.

PRODUCT SPECIFICATIONS

PRODUCT SPECIFICATIONS

| Gasoline Capacity and Type: | 1.5 Gallons Unleaded Regular | | | |
|-----------------------------|--|--|--|--|
| Oil Type (API-SG-SL): | SAE 30 (above 32°F) SAE 5W30 (below 32°F) | | | |
| Oil Capacity: | 48 oz. | | | |
| Spark Plug: | Champion RC12YC (Gap: .030") | | | |
| Ground Speed | Forward: 0 - 4 Reverse: 0 - 2 | | | |
| Charging System: | 3 Amps Battery 5 Amps Headlights | | | |
| Blade Bolt Torque: | 45-55 Ft. Lbs. | | | |

CUSTOMER RESPONSIBILITIES

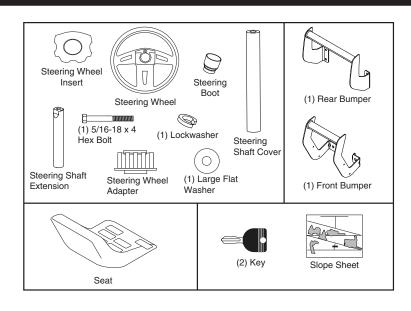
- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

EVARNING: This riding mower 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.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands.

UNASSEMBLED PARTS



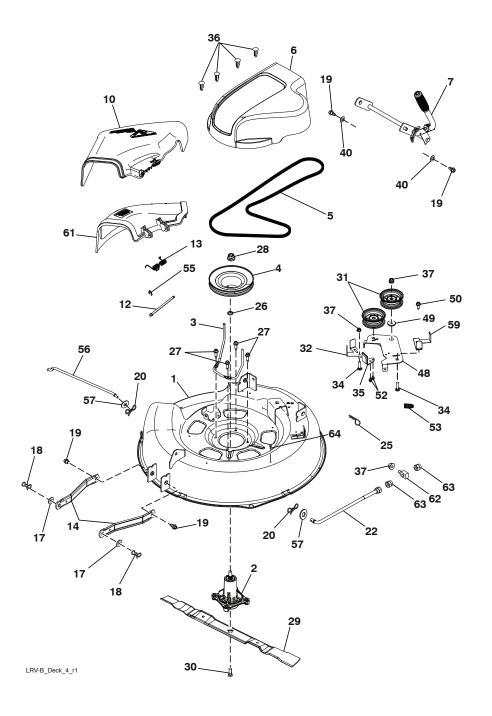
RIDING MOWER

MOWER DECK

| KEY NO. | PART NO. | DESCRIPTION |
|------------|------------------------------|--------------------------------------|
| 1 | 532 43 68-48 | DECK |
| 2 | 532 19 28-70 | MANDREL ASM |
| 3 | 532 43 68-56 | KEEPER, BELT |
| 4 | 532 43 68-55 | PULLEY, MANDREL |
| 5 | 532 44 15-97 | BELT |
| 6 | 532 43 68-63 | COVER, MANDREL |
| 7 | 532 43 67-34 | LIFT ASM, DECK |
| 10 | 532 43 96-38 | DEFLECTOR |
| 12 | 532 43 66-47 | PIN, HINGE |
| 13 | 532 43 74-62 | SPRING, TORSION |
| 14 | 532 19 51-85 | ARM, MOWER SUPPORT |
| 17 | 819 19 19-12 | WASHER |
| 18 19 | 532 19 42-09 532 19 65-39 | PIN BOLT. SHOULDER |
| 20 | 532 19 05-39 | PIN COTTER 5/16 BOW TIE LOCK |
| 22 | 532 42 93-50 | LINK ASM DECK |
| 25 | 532 12 47-88 | RETAINER SPRING 1" |
| 26 | 532 18 76-90 | SPACER, MANDREL |
| 27 | 532 17 39-84 | BOLT. MANDREL |
| 28 | 532 40 02-34 | NUT FLANGE LOCK TOP |
| 29 | 532 41 92-73 | BLADE |
| 30 | 532 19 30-03 | BOLT, BLADE |
| 31 | 532 19 31-97 | PULLEY, IDLER |
| 32 | 532 14 10-43 | GUARD, IDLER TUV |
| 34 | 872 11 06-12 | BOLT, 3/8-16 X 1 1/2 |
| 35 | 532 19 94-70 | ARM, BRAKE |
| 36 | 532 13 77-29 | SCREW THD ROLL 1/4-20 X 5/8 |
| | 873 90 06-00 819 17 16-16 | NUT, 3/8-16 FLANGE WASHER, 16 GA. |
| 40 | 532 43 68-57 | ARM CLUTCHING |
| 49 | 532 19 90-92 | SPACER RETAINER |
| 50 | 817 00 06-16 | SCREW 3/8-16 X 1 |
| | 817 60 04-06 | SCREW 1/4-20 X 3/8 |
| 53 | 532 40 18-72 | SPRING RETURN DECK |
| 55 | 532 43 79-88 | E-RING 5/16 |
| 56 | 532 43 68-62 | ROD ANTI-SWAY |
| 57 | 819 13 13-12 | WASHER 13/32 X 13/16 X 12 GA |
| 59 | 532 43 68-58 | GUARD TUV IDLER |
| 61 | 532 43 79-47 | MULCH COVER ASM |
| 62 | 532 17 62-05 | TRUNION SUSPENSION ARM |
| 63 | 532 17 59-94 | NUT LIFT LINK 7/16-20 |
| 64 | 817 67 06-08 | SCREW THDROL 3/8-16 X 1/2 |
| NOTE | : All component | dimensions given in U.S. inches |

1 inch = 25.4 mm

MODEL NUMBER PB30 (96022001200) PRODUCT NUMBER 960 22 00-12



ASSEMBLY/PRE-OPERATION

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

TOOLS REQUIRED FOR ASSEMBLY

(1) Utility knife

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

- (1) 1/2" wrench
- (1) Tire pressure gauge

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 RIDING MOWER FROM CARTON

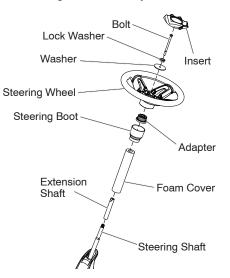
UNPACK CARTON

- 1. Remove all accessible loose parts and parts boxes from carton.
- 2. Cut along dotted lines on all four panels of carton. Remove end panels and lay side panels flat.
- 3. Remove packing materials from riding mower.
- 4. Check for any additional loose parts or cartons and remove.

NOTE: Only cut carton with a short blade utility knife, a long blade or saw can puncture tires on unit.

TO INSTALL STEERING WHEEL

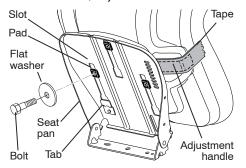
- 1. Slide extension shaft onto steering shaft.
- 2. Slide steering shaft protective foam cover over steering shaft.
- 3. Place steering boot over steering shaft and push down to secure.
- 4. Position front wheels of the riding mower so they are pointing straight forward.
- 5. Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft.
- 7. Press steering wheel into position on shaft, install large washer, lock washer, bolt and tighten securely.
- 8. Snap steering wheel insert into center of steering wheel securely.



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INSTALL SEAT

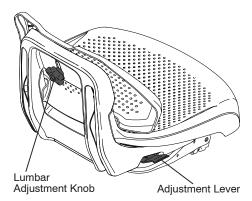
- Remove bolt and flat washer securing seat to cardboard packing and set aside for assembly of seat to riding mower. Remove the cardboard packing and discard.
- 2. Place seat on seat pan so all three (3) bottom pads are positioned over large slotted holes in pan.
- 3. Push down on seat to engage pads in slots and pull seat towards rear of riding mower.
- 4. Raise seat and tighten bolt and large flat washer securely.
- 5. Remove tape and discard.
- Lower seat into operating position and sit on seat. Press clutch/brake pedal all the way down. If operating position is not comfortable, adjust seat.



TO ADJUST SEAT

FRONT AND BACK -

- Sit in seat.
- Lift up adjustment lever and slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Release lever to lock seat in position.



LUMBAR SUPPORT -

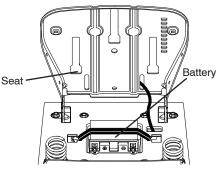
- Loosen lumbar adjustment knob.
 Slide seat back up or down to most
- Slide seat back up or down to most comfortable position for lower back support.
- Tighten lumbar adjustment knob.

HOW TO SET UP YOUR RIDING MOWER

CHECK BATTERY

Ensure battery is securely fastened, and that all wires are securely connected.

- Battery is located under the seat.
- Battery has been fully charged from the factory, before installation.



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

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

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

- 1. Raise deck lift lever to its highest position.
- 2. Release parking brake by depressing clutch/brake pedal.
- 3. Shift unit to neutral.
- 4. Roll riding mower forward off skid.

RIDING MOWER

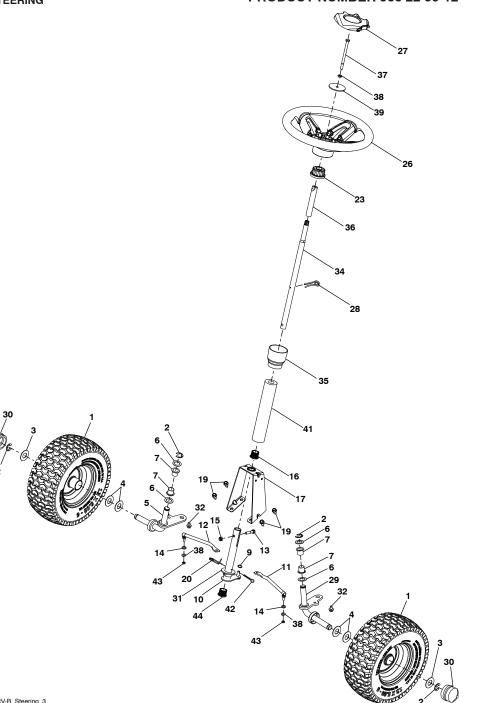
STEERING

| KEY NO. | PART NO. | DESCRIPTION |
|------------|------------------------------|---|
| 1 | 532 44 20-64 | WHEEL TUBE |
| 2 | 812 00 00-01 | E-CLIP |
| 3 | 532 18 89-67 | WASHER, HARDENED |
| 4 | 532 12 17-49 | |
| 5 | 532 43 61-81 | SPINDLE, RH |
| 6 7 | 532 12 49-31 532 12 49-37 | WASHER, HARDENED THRUST BUSHING. STEERING COLUMN |
| 9 | 819 13 14-14 | WASHER |
| 9 10 | 532 42 80-57 | WASHER WELDMENT, LWR STRG SHAFT |
| 11 | 532 43 61-83 | LINK. STRNG LH |
| 12 | | LINK. STRNG RH |
| 13 | | BOLT, 5/16-18 X 1 1/2 |
| 14 | 819 11 12-16 | WASHER 11/32 X 3/4 X 16 GA |
| 16 | 532 43 62-82 | BUSHING SNAP |
| 15 | 873 80 05-00 | NUT, 5/16-18 |
| 17 | 532 43 61-78 | SUPPORT, UPPER STEERING |
| 19 | 817 00 05-12 | BOLT, 5/16-18 X 3/4 |
| 20 | | CLIP, RETAINER SPRING |
| 23 | 532 43 77-47 | ADAPTER, STEERING WHEEL |
| 26 | 532 42 45-51 | WHEEL, STEERING |
| 27 | 532 44 15-06 | CAP, STEERING WHEEL |
| 28 | 532 19 98-49 | CLIP, RETAINER SPRING SPINDLE. LH |
| 29 30 | 532 43 61-80 532 19 32-68 | CAP, HUB, AXLE |
| 30 | 819 34 32-10 | WASHER 1-1/16 X 2 X 10GA. |
| 32 | 817 58 05-20 | SCREW HEXWSH THD 5/16-18 X 1-3/4 |
| 34 | 532 43 61-82 | SHAFT STEERING UPPER |
| 35 | 532 44 20-66 | BOOT LOWER STEERING WHEEL |
| 36 | 532 19 60-75 | SHAFT EXTENSION STEERING SPLINE |
| 37 | 874 78 05-80 | BOLT FIN HEX 5/16-18 UNC X 5 GR5 |
| 38 | 810 04 05-00 | WASHER LOCK HVY HLCL SPR 5/16 |
| 39 | 819 11 38-12 | WASHER |
| 41 | 532 43 65-90 | |
| | 532 42 10-76 | |
| 43 | | |
| 44 | 532 42 80-44 | BUSHING SNAP .75 ID |
| NOT | | dimensione siven in LLC, inches |

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

RIDING MOWER STEERING

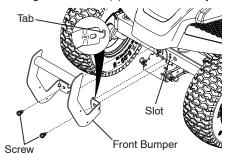
MODEL NUMBER PB30 (96022001200) PRODUCT NUMBER 960 22 00-12



TO ATTACH FRONT BUMPER

NOTE: For ease of assembly, you may wish to obtain the assistance of another person for mounting bumper to riding mower.

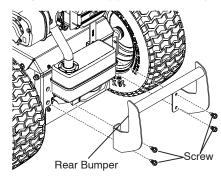
- 1. Remove (2) screws from front chassis of riding mower.
- 2. Tilt the front bumper so that the bumper tabs catch the slots on the front of the chassis and lower the bumper in to place.
- 3. Attach the bumper to front of chassis with screws removed in step 1.
- 4. Tighten the two (2) screws securely.



TO ATTACH REAR BUMPER

NOTE: For ease of assembly, you may wish to obtain the assistance of another person for mounting bumper to riding mower.

- 1. Remove (4) screws from rear chassis of riding mower.
- 2. Position bumper as shown and assemble to rear chassis with screws removed in step 1.
- 3. Tighten the four (4) screws securely.



CHECK TIRE PRESSURE

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

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 POSITON OF MOWER DRIVE BELT

See the figure that is shown for replacing the mower drive belt in the service and adjustment section of this manual. Verify that the belt is routed correctly.

CHECK BRAKE SYSTEM

After you learn how to operate your riding mower, check to see that the brake is operating properly.

✓ CHECKLIST

Before you operate your new riding mower, 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 connected.
- ✓ 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 belt. Be sure it is routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.

While learning how to use your riding mower, 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).

RIDING MOWER

DRIVE

MODEL NUMBER PB30 (96022001200) PRODUCT NUMBER 960 22 00-12

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|------------|--------------|--------------------------------|------------|------------------------------|------------------------------|
| 1 | 532 44 20-79 | WHEEL ASM (REAR) | 69 | 532 43 57-27 | COVER CLUTCH |
| 2 | 532 12 17-48 | WASHER, 16 GA. | 70 | 532 41 15-55 | GRIP LEVER |
| 3 | 812 00 00-01 | E-CLIP | 71 | 532 43 68-65 | TUBE SHIFT LRV |
| 6 | 532 15 69-72 | SPACER AXLE | 72 | 872 11 04-06 | BOLT CARR. |
| 7 | 874 78 04-28 | HCS 1/4-20 X 1-3/4 GR 5 ZD | 73 | 873 68 04-00 | NUT CROWNLOCK 1/4 - 20 UNC |
| 8 | 532 44 18-51 | WELMENT SUPPORT AXLE RH | 75 | 532 43 67-58 | BRACKET MOUNT SHIFT |
| 9 | 532 44 19-36 | SUBASM FINAL DRIVE | 76 | 532 18 35-00 | HUB SHIFT |
| 10 | 817 00 05-12 | SCREW 5/16 - 18 X 3/4 | 78 | 532 42 90-55 | SPACER NYLON .866 X 1.25 X |
| 11 | 532 43 67-41 | BRACKET.SUPPORT.RH | | | .250 |
| 12 | 532 43 61-48 | CASE CHAIN RH | 79 | 874 78 04-12 | BOLT.FIN.HEX.1/4-20 UNC X.75 |
| 13 | 532 43 72-80 | BEARING BALL 6207-SRS | 80 | 810 04 04-00 | WASHER LOCK HVY HLCL |
| 14 | 532 43 71-76 | SPROCKET DRIVEN 37 TOOTH | | | SPRING |
| 15 | 532 44 24-96 | TUBE INPUT HEX | 81 | 819 09 12-10 | WASHER 9/32 X 3/4 X 10 GA. |
| 16 | 532 43 61-53 | CHAIN PRIMARY DRIVE | 84 | 819 11 16-10 | WASHER 11/32 X 1.00 X 10 GA. |
| 17 | 532 43 72-82 | BEARING BALL 6204-3-2RS | 85 | 532 43 69-14 | SPRING FRICTION PACK |
| 18 | 532 43 61-49 | CASE CHAIN LH | 86 | 532 43 73-04 | BUSHING PACK FRICTION FD2 |
| 19 | 818 05 10-10 | SCREW 10 - 24 X 5/8 PAN HEAD | 87 | 532 43 69-48 | WASHER PLASTIC |
| | | TORX | 88 | 532 43 67-01 | STUD PACK FRICTION |
| 20 | 532 12 49-31 | WASHER THRUST .75 X 1.230 | 89 | 532 43 72-99 | SPACER PACK FRICTION FD2 |
| 22 | 532 43 66-96 | WELMENT SUPPORT AXLE LH | 90 | 819 11 14-16 | WASHER.11/32 X 7/8 X 16 GA. |
| 23 | 818 10 10-08 | SCREW TORX #10 - 14 X 1/2 | 91 | 532 43 09-24 | SUBASM.LINK.SHIFT |
| 32 | 532 43 61-51 | BLOCK TENSION CHAIN | 94 | 532 43 69-18 | WELDMENT.SHIFT.FD2 |
| 33 | 532 43 61-50 | SPRING ADJUSTER TENSION | 95 | 532 43 68-66 | PLATE.SHIFT |
| 34 | 877 10 10-40 | PIN CLEVIS 5/16 X 2-1/2 | 96 | 532 43 77-67 | DRUM CLUTCH MULTI DISC |
| 36 | 532 43 57-22 | SHAFT INPUT CLUTCH | 97 | 532 43 69-25 | SUBASMLINKSHIFTPRIMARY |
| 37 | 532 43 61-52 | SPROCKETSPLINED14TOOTH | 98 | 532 15 03-60 | NUT LOCK CENTER 1/4 - 28 |
| 39 | 532 43 04-70 | BEARING BALL | | | FNTHD |
| 40 | 532 43 69-39 | | 101 | 817 06 06-24 | SCREW.3/8-16X1-1/2. SMGML. |
| 41 | 532 10 95-53 | SWITCH INTLK CL MWR GRY | 100 | 500 00 07 77 | |
| 40 | 070 00 05 00 | 4 TERM | 102 | 532 08 67-77 | THREAD.CUTTER |
| 43 | 873 80 05-00 | NUT LOCK HEX W/INSERT | 103 | 532 10 98-69 | SWITCH.SEAT. HUB CENTER |
| 44 | 532 43 66-52 | 5/16 - 18 UNC COVER END HEX | 104 105 | 532 43 77-81 532 43 61-42 | SPRING WAVE C125-H5 |
| 44 45 | 532 43 61-54 | SPRING DRIVE | 105 | 532 43 61-42 | SPACER RETAINER |
| 43 | 532 43 69-49 | BRACKET MOUNT CABLE | 107 | 532 12 47-88 | RETAINER.SPRING.1".ZINC/ |
| | | LRV B | | | CAD |
| 48 | 817 54 10-16 | SCREW.HEX.HEAD WASH.10- | 108 | 532 43 67-84 | BUSHING.5/16IDX7/16ODX1/2 |
| | | 24X1.00 | 109 | 532 19 32-68 | CAP.HUB.AXLE.1.50 X 1.00 |
| 51 | 532 43 67-39 | BRACKET SUPPORT LH | 110 | 532 42 84-61 | BRACKET SHIFTER FLEX |
| 53 | 873 90 06-00 | LOCK NUT, FLANGED | 111 | 532 12 35-83 | KEY.SQUARE.2.0X.1845/.1865 |
| 54 | 532 43 57-26 | BEARING BALL | 112 | 818 10 10-12 | SCREW TORX #10-14 X .750 |
| 55 | 532 43 77-77 | COVER WHEEL CLUTCH | 113 | 873 90 05-00 | NUT LOCK FLANGE HEX |
| 57 | 532 43 65-59 | WHEEL FRICTION | 114 | 532 07 67-15 | BEARING FLANGE |
| 59 | 532 44 10-97 | PLATE.CLUTCH.DRIVE | | | |
| 60 | 532 43 77-87 | PLATE PRESSURE DRIVE | | | |
| 62 | 532 43 77-86 | PLATE CLUTCH BRAKE | | | |
| 63 | 532 43 77-85 | PLATE PRESSURE BRAKE | | | |
| 65 | 532 43 57-23 | PLATE PRESSURE MASTER | | | |
| 66 | 532 43 57-24 | BEARING THRUST 20MM | | | |

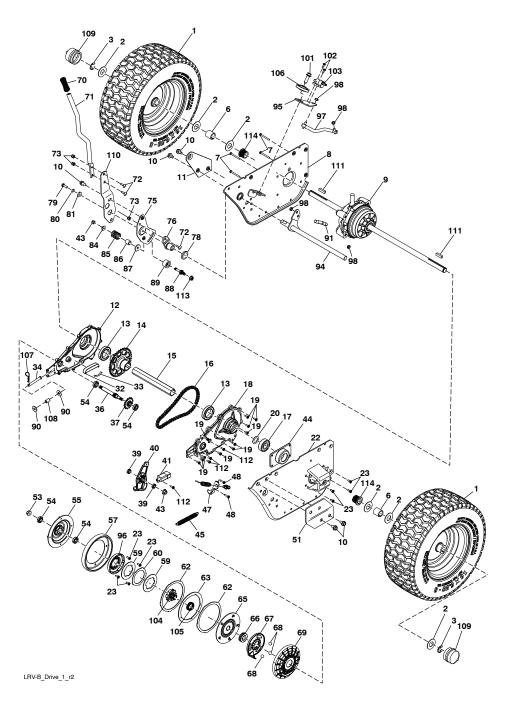
NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

532 43 57-25 PLATE THROWOUT

532 43 57-28 BEARING BALL LOOSE

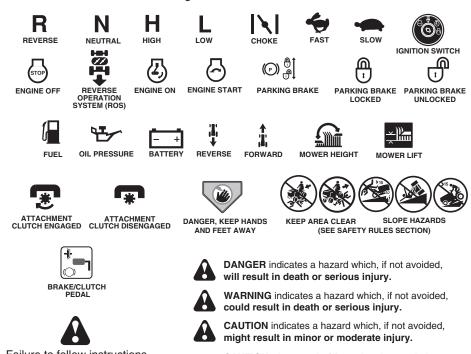
67 68

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OPERATION

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



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.

CAUTION when used without the alert symbol,

A indicates a situation that could result in damage to the tractor and/or engine.



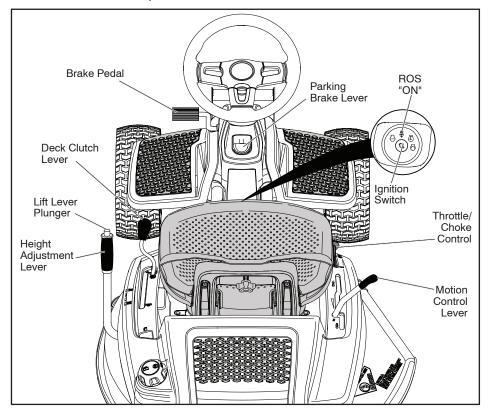
HOT SURFACES indicates a hazard which, if not avoided, could result in death, serious injury and/or property damage.

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

KNOW YOUR RIDING MOWER

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

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



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

DECK CLUTCH LEVER - Used to engage the mower blade.

BRAKE PEDAL - Used for braking the riding mower and starting the engine.

HEIGHT ADJUSTMENT LEVER - Used to adjust mower cutting height.

IGNITION SWITCH - Used for starting and stopping the engine.

LIFT LEVER PLUNGER - Used to release height adjustment lever when changing its position.

PARKING BRAKE LEVER - Locks parking brake into brake position.

MOTION CONTROL LEVER - Selects the speed and direction of the riding mower.

ROS "ON" POSITION - Allows operation of mower deck or other powered attachment while in reverse.

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

RIDING MOWER

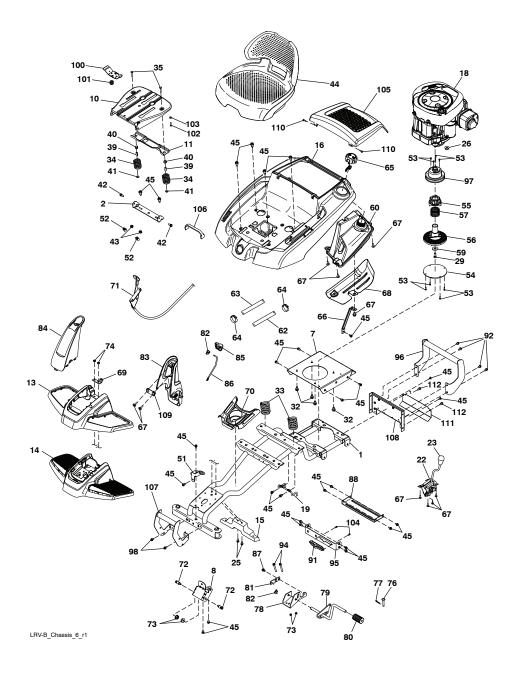
CHASSIS

MODEL NUMBER PB30 (96022001200) PRODUCT NUMBER 960 22 00-12

| KEY NO. | PART NO. | DESCRIPTION | KEY NO. | PART NO. | DESCRIPTION |
|----------------|--|--|-------------------|--|---|
| 1 2 | 532 43 61-76 532 18 01-66 | WELDMENT, CHASSIS BRACKET, SEAT | 69 70 | 532 43 74-27 532 44 20-68 | BRACKET MOUNT CABLE CONSOLE CENTER |
| 7 8 10 | 532 43 61-77 532 43 68-60 532 44 18-05 | PLATE, ENGINE BRACKET, CHASSIS FRONT PAN, SEAT | 71 72 | 532 43 78-57 532 19 51-61 | CUPHOLDER THROTTLE ASM STUD FASTNER |
| 11 13 | 532 19 93-70 532 44 20-71 | BRACKET, SWITCHMOUNTING COVER, FOOT REST | 73 | 873 90 05-00 | NUT LOCK HEX FLANGE 5/16- 18 |
| 14 15 | 532 44 20-75 532 44 20-69 | FOOTREST STRUCTURAL SUPPORT, FOOT REST | 74 76 | 873 90 04-00 877 10 08-12 | NUT HEX FLANGE 1/4-20 PIN CLEVIS |
| 16 18 | 532 43 93-97 532 43 96-13 | PANEL ASM, CONTROL ENGINE, (NON-CALIFORNIA) | 77 78 | 876 02 02-08 532 43 70-56 | PIN COTTER 1/16 X 1/2 BRACKET SUPPORT ROD |
| 19 | 532 43 68-61 | 217807-1537-G1 KEEPER, BELT | 79 80 | 532 43 70-57 532 42 96-93 | BRAKE WELDMENT BRAKE PEDAL COVER |
| 22 23 | 532 44 17-15 532 14 98-46 | DECK CLUTCH ASM KNOB SCREW, NO. 10 | 81 82 | 532 43 73-74 532 16 94-84 | WELDMENTLINKCONNECTING RETAINER CLIP |
| 24 25 26 | 532 41 63-58 872 14 04-24 873 51 04-00 | BOLT NUT, 1/4-20 | 83 84 | 532 43 93-66 532 43 92-89 | STEERING TOWER REAR STEERING BOOT FRONT |
| 29 32 | 532 43 89-21 817 06 06-20 | BOLT, 7/16-20 X 1.00 SCREW 3/8-16 X 1-1/4 | 85 86 87 | 532 43 76-60 532 43 87-62 | PARKING BRAKE HANDLE ACTUATOR PARKING BRAKE |
| 33 34 | 532 12 41-81 532 12 37-40 | SPRING, SEAT | 87 88 89 | 532 16 54-92 532 42 81-10 532 42 17-56 | SHOULDER BOLT CROSS BRACE SCREW |
| 35 39 | 872 05 04-12 532 13 43-00 | BOLT, 1/4-20 X 1 1/2 SPACER | 91 92 | 532 42 17-50 532 43 74-01 532 18 4471 | TRACK CLUTCH BRKT BOLT |
| 40 41 | 532 12 12-48 532 12 39-76 | BUSHING, NYLON SNAP NUT, LOCK | 94 95 | 874 49 05-48 532 43 67-02 | BOLT BRACKET CLUTCHING |
| 42 43 | 532 17 18-52 873 80 05-00 | BOLT, 5/16-18 SHOULDER NUT, 5/16-18 | 96 97 | 532 44 20-73 532 43 64-72 | BUMPER REAR PULLEY ENGINE |
| 44 45 | 532 43 66-12 817 00 05-12 | SEAT BOLT, 5/16-18 X 3/4 | 98 100 | 817 49 04-08 532 19 76-61 | SCREW 1/4-20 X 1/2 HANDLE SLIDE SEAT |
| 51 52 | 532 42 88-56 532 14 50-06 | BRACKET CLIP PUSH-IN HINGED | 101 102 | 532 19 82-00 874 76 06-12 | SPRING LATCH SEAT BOLT FIN HEX 3/8-16 UNC X 3/4 |
| 53 54 | 532 43 85-62 532 43 64-73 | SCREW DISC FRICTION | 103 104 | 819 13 38-12 818 10 10-08 | WASHER 13/32 X 2 3/8 X 12 GA SCREW TORK #10-14 X 1/2 |
| 55 56 57 | 532 43 58-08 532 44 19-25 532 43 64-79 | TORSION BODY UPPER TORSION BODY LOWER SPRING HELIX | 105 106 | 532 44 20-78 532 43 68-34 | ENGINE COVER STRAP BATTERY |
| 57 59 60 | 819 18 24-11 532 43 78-56 | WASHER 9/16ID X 1/2 20D11G FUEL TANK ASM | 107 108 109 | 532 44 20-74 532 43 71-68 | FRONT BRUSH GUARD COVER REAR TRANSAXLE BRAKE HANDLE PLATE |
| 62 63 | 532 40 04-14 532 41 41-19 | FUEL LINE PURGE LINE | 109 110 111 | 532 43 90-08 532 42 21-45 532 43 81-71 | CONTROL PANEL HINGE PIN SHIELD, BRAKE CABLE |
| 64 65 | 532 12 34-87 532 43 85-96 | CLAMP HOSE FUEL CAP | 112 | 817 72 04-08 | SCREW THD CUT |
| 66 67 | 532 43 66-06 532 42 17-56 | FUEL TANK SUPPORT BRKT SCREW #10 X 0.500 | NOTE | : All component | dimensions given in U.S. inches |
| 68 | 532 43 98-51 | SHIELD HEAT | | 1 inch = 25.4 n | |

RIDING MOWER CHASSIS

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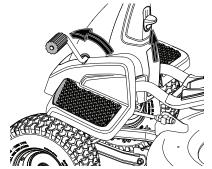


The operation of any riding mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your riding mower or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or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

HOW TO USE YOUR RIDING MOWER TO SET PARKING BRAKE

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

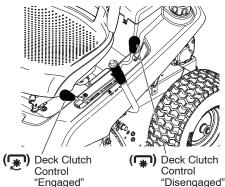
- 1. Depress brake pedal all the way down and hold.
- 2. Pull parking brake lever up and hold, release pressure from brake pedal, then release parking brake lever. Pedal should remain in brake position. Ensure parking brake will hold mower secure.



STOPPING

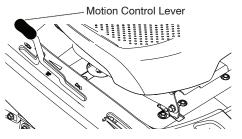
MOWER BLADE -

• To stop mower blade, move deck clutch lever to disengaged position.



GROUND DRIVE -

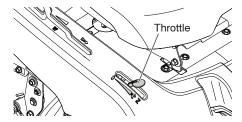
- To stop ground drive, depress brake pedal all the way down.
- Move motion control lever to neutral position.



ENGINE -

• Move throttle control between half and full speed (fast) position.

NOTE: Failure to move throttle control between half and full speed (fast) position, before stopping, may cause engine to "backfire".



• Turn ignition key to "STOP" position and remove key. Always remove key when leaving riding mower to prevent unauthorized use.

IMPORTANT: Leaving the ignition switch in any position other than "STOP" will cause the battery to discharge and go dead.

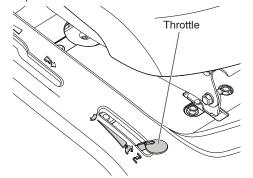
NOTE: Under certain conditions when riding mower is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping riding mower on grass areas.

CAUTION: Always stop riding mower completely, as described above, before leaving the operator's position.

TO USE THROTTLE CONTROL

Always operate engine at full speed (fast).

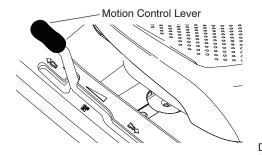
- Operating engine at less than full speed (fast) reduces engine's operating efficiency.
- Full speed (fast) offers the best mower performance.



TO MOVE FORWARD AND BACKWARD

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

- 1. Ensure the parking brake is applied.
- 2. Start riding mower with motion control lever in neutral (N) position.
- 3. Release parking brake.
- 4. Slowly move motion control lever to desired position.



TO ADJUST MOWER CUTTING HEIGHT

The position of the mower height deck lift lever determines the cutting height.

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

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

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

TO OPERATE MOWER

Your riding mower is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the deck 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.

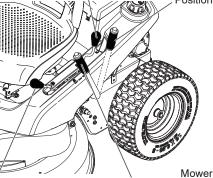
- 1. Select desired height of cut.
- 2. Start mower blade by engaging deck clutch lever.

TO STOP MOWER BLADE -

Disengage deck clutch lever.

Deck Clutch Lever Mower Height "Disengaged" Position Adjustment High

Adjustment High



Deck Clutch Lever "Engaged" Position Height Adjustment Low Position

Mulch Cover

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



Deflector Shield

RIDING MOWER

ELECTRICAL

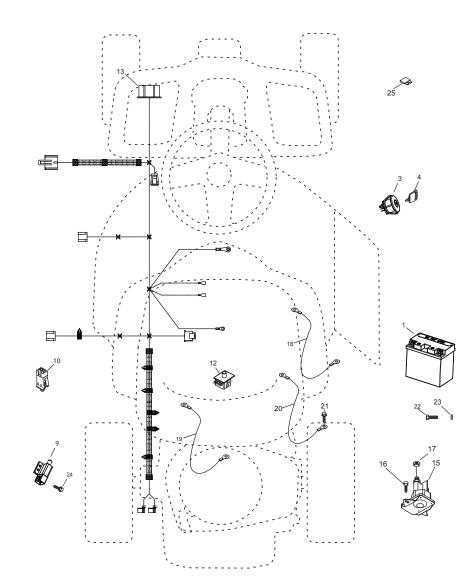
| KEY | PART | |
|-----|--------------|---------------------------------|
| NO. | NO. | DESCRIPTION |
| 1 | 532 43 65-51 | BATTERY |
| 3 | 532 19 33-50 | SWITCH, IGN, DLTA, P-IN, ROS |
| 4 | 532 41 19-33 | KEY/CHAIN |
| 9 | 532 10 95-53 | SWITCH, INTLK,CL, MWR, GRY |
| 10 | 532 17 61-38 | SWITCH, INTERLOCK, NONC, GRAY |
| 12 | 532 19 27-49 | SWITCH, SEAT, DP, ROS |
| 13 | 532 43 72-28 | HARNESS, IGN, ELECTSTART, LRV |
| 15 | 532 19 25-07 | SOLENOID |
| 16 | 817 72 04-08 | SCREW THD CUT 1/4-20 X 1/2 TY23 |
| 17 | 873 51 04-00 | NUT KEPS HEX 1/4-20 UNC |
| 18 | 532 41 66-94 | CABLE BATTERY |
| 19 | 532 42 12-99 | CABLE STARTER |
| 20 | 532 42 12-98 | CABLE GROUND |
| 21 | 817 06 05-12 | SCREW 5/16-18 X 3/4 |
| 22 | 874 35 05-09 | SCREW HEX M5X0.8.9MM |
| 23 | 532 43 81-22 | NUT M5 |
| 24 | 818 10 10-12 | SCREW TORX #10-14 X .750 |
| 25 | 532 44 16-22 | FUSE, 10 |
| | | |

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

RIDING MOWER ELECTRICAL

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LRV2



REVERSE OPERATION SYSTEM (ROS)

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

AWARNING: Backing up with the deck clutch engaged while mowing is strongly discouraged. Turning the ROS "ON", to allow reverse operation with the deck 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.

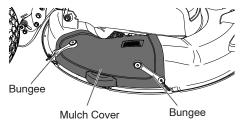
- 1. Move motion control lever to neutral (N) position.
- 2. With engine running, turn ignition key counterclockwise to ROS "ON" position.
- 3. Look down and behind before and while backing.
- 4. Slowly move motion control lever to reverse (R) position to start movement.
- 5. When use of the ROS is no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

ROS "ON" Position Engine "ON" Position (Normal Operating)

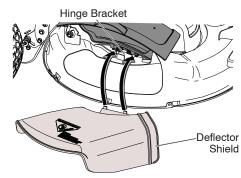


TO ATTACH DEFLECTOR

1. Unhook the 2 bungees from deck to the mulch cover.



- 2. Lift the mulch cover.
- 3. Attach the deflector to the hinge bracket.



- 4. Rest the mulch cover on the deflector.
- 5. Attach the 1 bungee from the deflector to the deck.



Deflector Shield

Mulch Cover

TO OPERATE ON HILLS

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

- 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.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

When pushing or towing your riding mower, be sure to disengage transmission by placing shifter in neutral.

- Raise mower height adjustment to its highest position with mower height adjustment lever.
- To reengage transmission, press brake and shift out of neutral.

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL

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

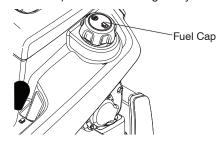
- 1. Check engine oil with riding mower on level ground.
- 2. Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and screw cap tight, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See the 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.

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

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

- Sit on seat in operating position, depress clutch/brake pedal and set parking brake.
- Place motion control lever in neutral position.
- Move deck clutch lever to "DISEN-GAGED" 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/10°C AND ABOVE)

- When engine starts, move the throttle control to the fast position.
- The 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/10°C AND BELOW)

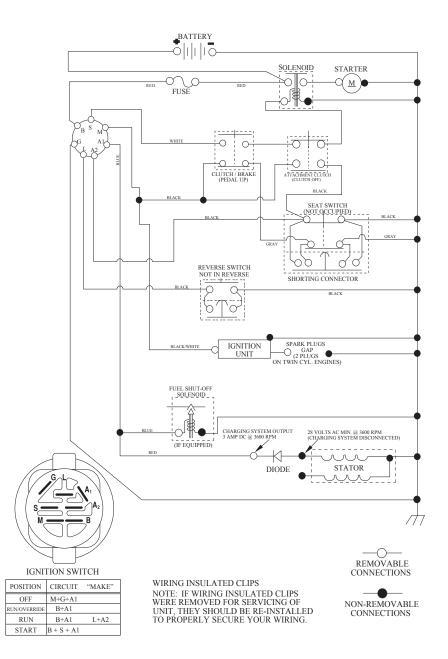
 When engine starts, allow engine to run with the throttle control in the choke position until the engine runs roughly, then move throttle control to fast position. This may require an engine warm-up period from several seconds to several minutes, depending on the temperature.

RIDING MOWER

SCHEMATIC

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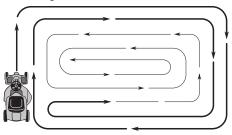
TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to service center.

| PROBLEM | | CAUSE | | CORRECTION |
|---|--|--|--|--|
| Engine continues to run when operator leaves seat with atta- chment clutch engaged1Faulty operator-safety presence control system. | | Faulty operator-safety presence control system. | 1 | Check wiring, switches and connections. If not corrected, Contact a qualified service center. |
| Poor cut - uneven cutting | | Worn, bent or loose blade. Mower deck not level. Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent from build-up of grass, leaves, and trash around mandrel. | 1 2 3 4 5 | Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing. Contact a qualified service center. Clean around mandrels to open vent holes. |
| Mower blade will not rotate | 2Worn/damaged mower drive belt.2Rep3Frozen idler pulley.3Rep | | Remove obstruction. Replace mower drive belt. Replace idler pulley. Contact a qualified service center. | |
| Poor grass discharge | 1 2 3 4 5 6 7 8 9 10 | 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. Blade improperly installed. Improper blade used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. | 1 2 3 4 5 6 7 8 9 10 | Shift to slower speed. Allow grass to dry before mowing. Level mower deck. Check tires for proper PSI. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blade sharp edge down. Replace with blade listed in parts manual. Clean around mandrels to open vent holes. |
| Battery will not charge 1 Bad battery cell(s). 2 Poor cable connections. 3 Faulty alternator. | | 1 2 3 | Replace battery. Check/clean all connections. Replace alternator. | |
| Loss of drive | e 1 Axle key missing. | | 1 | Install axle key at rear wheel. See "TO REMOVE WHEEL" in the Service and Adjustments section. |
| Engine dies when riding mower is shifted into reverse1Reverse operation system (ROS) is not "ON" while mower or other attachment is engaged. Engine is cold. | | is not "ON" while mower or other attachment is engaged. | 1 2 | Turn ignition key to ROS "ON" position. See Operation section. Allow engine warm-up by running for several seconds to several minutes. |

MOWING TIPS

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



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

MAINTENANCE

| | MAINTENANCE SCHEDULE | BEFORE EACH USE | EVERY 8 HOURS | EVERY 25 HOURS | EVERY 50 HOURS | EVERY 100 HOURS | EVERY SEASON | BEFORE STORAGE |
|--------|---------------------------------------|-----------------------|---------------------|----------------------|----------------------|-----------------------|-----------------|-------------------|
| R | Check Brake Operation | | | | | | | |
| 11 | Check Tire Pressure | ~ | ~ | | | | | |
| D | Check Operator Presence & ROS Systems | V | | | | | | |
| 11 | Check for Loose Fasteners | V | | | | ~ | | V |
| N G | Check/Replace Mower Blade | | | ✔3 | | | | |
| | Clean Battery and Terminals | | | ~ | | | | ~ |
| M | Lubricate Axles and Spindles | | | V | | | | |
| W | Clean Friction Surfaces | | | V 4 | | | | V |
| ΪË | Check Mower Levelness | | | 1 | ~ | | | |
| R | Check V-Belt | | | | | V | | |
| Г | Check Engine Oil Level | v | V | | | | | |
| IE. | Change Engine Oil | | | 1 ,2 | | | | ~ |
| Ν | Clean Air Filter | | | ✓ 2 | | | | |
| G | Clean Air Screen | | | ✓ 2 | | | | |
| Ľ | Inspect Muffler/Spark Arrester | | | | V | | | |
| N E | Clean Engine Cooling Fins | | | | | V 2 | | |
| Ľ | Replace Spark Plug | | | | | ~ | V | |
| | Replace Air Filter Paper Cartridge | | | | | ✓2 | | |

 1 - Change more often when operating under a heavy load or in high ambient temperatures.
 3 - Replace blade more often when mowing in sandy soil

 2 - Service more often when operating in dirty or dusty conditions.
 4 - Clean surfaces with isopropyl alcohol or non filming cleaner.

GENERAL RECOMMENDATIONS

The warranty on this riding mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain riding mower as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your riding mower.

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.

 At least once a year you should replace the spark plug, clean or replace air filter, and check blade and belt 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

- 1. Check engine oil level.
- 2. Check brake operation.
- 3. Check tire pressure.
- 4. Check operator presence and ROS systems for proper operation.
- 5. Check for loose fasteners.

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.

TROUBLESHOOTING CHART:

See appropriate section in manual unless directed to service center.

| PROBLEM | | CAUSE | | CORRECTION |
|----------------------------------|---|---|---|--|
| Will not start | 1 2 3 4 5 6 | Out of fuel. Bad spark plug. Dirty air filter. Water in fuel. Loose or damaged wiring. Engine valves out of adjustment. | 1 2 3 4 5 6 | Fill fuel tank. Replace spark plug. Clean/replace air filter. Empty fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Check all wiring. Contact a qualified service center. |
| Hard to start | 1 2 3 4 5 6 | Dirty air filter. Bad spark plug. Weak or dead battery. Stale or dirty fuel. Loose or damaged wiring. Engine valves out of adjustment. | 1 2 3 4 5 6 | Clean/replace air filter. Replace spark plug. Recharge or replace battery. Empty fuel tank and refill tank with fresh, clean gasoline. Check all wiring. Contact a qualified service center. |
| Engine will not turn over | 1 2 3 4 5 6 7 8 9 | Clutch/brake pedal not depressed. Deck clutch is engaged. Weak or dead battery. Blown fuse. Corroded battery terminals. Loose or damaged wiring. Faulty ignition switch. Faulty solenoid or starter. Faulty operator presence switch(es). | 1 2 3 4 5 6 7 8 9 | Depress clutch/brake pedal. Disengage deck clutch. Recharge or replace battery. Replace fuse. Clean battery terminals. Check all wiring. Check/replace ignition switch. Check/replace solenoid or starter. Contact a qualified service center. |
| Engine clicks but will not start | 1 2 3 4 | Weak or dead battery. Corroded battery terminals. Loose or damaged wiring. Faulty solenoid or starter. | 1 2 3 4 | Recharge or replace battery. Clean battery terminals. Check all wiring. Check/replace solenoid or starter. |
| Loss of power | 1 2 3 4 5 6 7 8 9 10 11 12 | Cutting too much grass/too fast. Build-up of grass, leaves and trash under mower. Dirty air filter. Low oil level/dirty oil. Faulty spark plug. Stale or dirty fuel. Water in fuel. Spark plug wire loose. Dirty engine air screen/fins. Dirty/clogged muffler. Loose or damaged wiring. Engine valves out of adjustment. | 1 2 3 4 5 6 7 8 9 10 11 12 | Raise cutting height/reduce speed. Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean & regap or change spark plug. Empty fuel tank and refill tank with fresh, clean gasoline. Empty fuel tank and carburetor, refill tank with fresh gasoline. Connect & tighten spark plug wire. Clean engine air screen/fins. Clean/replace muffler. Check all wiring. Contact a qualified service center. |
| Excessive vibration | 1 2 3 | Worn, bent or loose blade. Bent blade mandrel. Loose/damaged part(s). | 1 2 3 | Replace blade. Tighten blade bolt. Contact a qualified service center. Tighten loose part(s). Replace damaged parts. |

STORAGE

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

AWARNING: Never store the riding mower 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.

MOWER

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

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

BATTERY

- Fully charge the battery for storage.
- If battery is removed from riding mower for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel hose, or tank during storage. Also, 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.

- Empty the fuel tank by starting the engine and letting 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)

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

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your riding mower indoors and cover it to give protection from dust and dirt.
- · Cover your riding mower 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 riding mower to rust.

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

RIDING MOWER

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If riding mower requires more than four (4) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be serviced at your nearest authorized service center.

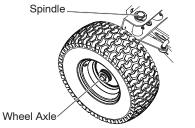
TIRES

- Maintain tire pressure at 12 PSI.
- · 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.

AXLE AND SPINDLES

- Front wheel axles and front spindles should be properly lubricated.
- · Wheel axles and spindles should be lubricated with grease.



OPERATOR PRESENCE SYSTEM AND REVERSE OPERATION SYSTEM (ROS)

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

· The engine should not start unless the brake pedal is fully depressed, and the deck clutch lever 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 deck clutch lever is engaged, any attempt by the operator to leave the seat should shut off the engine.
- Never operate the deck clutch lever unless you are seated in the seat.

CHECK REVERSE OPERATION (ROS) SYSTEM

- When the engine is running with the ignition switch in the engine "ON" position and the deck clutch lever 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 deck clutch lever 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

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

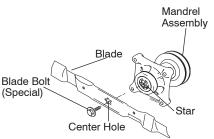
A CAUTION: Use only a replacement blade approved by the manufacturer of your riding mower. Using a blade not approved by the manufacturer of your riding mower is hazardous, could damage your riding mower and void your warranty.

BLADE REMOVAL

1. Raise mower to highest position to allow access to blade.

NOTE: Protect your hands with gloves and/ or wrap blade with heavy cloth.

- 2. Remove blade bolt by turning counterclockwise.
- 3. Install new blade with stamped "THIS SIDE UP" facing deck and mandrel assembly.



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

4. Install and tighten blade bolt securely (45-55 Ft. Lbs.).

IMPORTANT: Special blade bolt is heat treated.

BATTERY

Your riding mower has a battery charging system which is sufficient for normal use.

- Keep battery and connectors clean.
- Only recharge battery with charger approved for a 12V 6 amp. hour battery.
- Charging with any other charger or an automotive style charger can cause permanent damage to the battery.
- Charge battery for 24 hours for a full charge.

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

WARNING: Do not jump start battery. Permanent damage to the battery or personal injury may occur.

TRANSAXLE COOLING

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

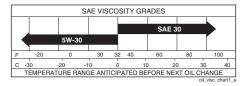
V-BELT

Check V-belt for deterioration and wear after 100 hours of operation and replace if necessary. The belt is not adjustable. Replace belt if it begins to slip from wear.

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.



NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, the oils 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 riding mower 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

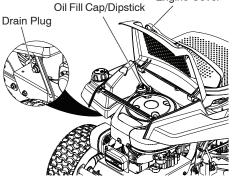
Determine temperature range expected before oil change. All oil must meet API service classification SG-SL.

- Be sure riding mower is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.

CAUTION: If engine has been operated for an extended period of time immediately prior to draining oil, oil will be hot.

- 1. Lift engine cover.
- 2. Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- 3. Position a container to catch oil.
- 4. Remove drain plug and drain oil into container.
- 5. After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PROD-UCT SPECIFICATIONS" section of this manual.
- Use gauge on oil fill cap/dipstick for checking level. For accurate reading, tighten dipstick cap securely onto the tube before removing dipstick. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.
- 8. Lower engine cover.

Engine Cover



TO START ENGINE WITH A WEAK BATTERY

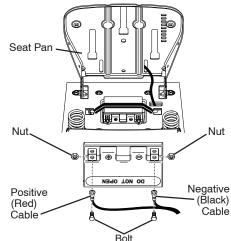
ACAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

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

REPLACING BATTERY

WARNING: Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparking from accidental grounding.

- 1. Lift seat pan to raised position.
- 2. Remove terminal cover.
- Disconnect BLACK battery cable then RED battery cable, battery strap and carefully remove battery from riding mower.
- 4. Install new battery with terminals in same position as old battery.
- 5. Reinstall terminal cover.
- 6. First connect RED battery cable to positive (+) battery terminal with bolt and nut as shown. Tighten securely.
- 7. Connect BLACK grounding cable to negative (-) battery terminal with remaining bolt and nut. Tighten securely
- 8. Lower seat pan.



INTERLOCKS AND RELAYS

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

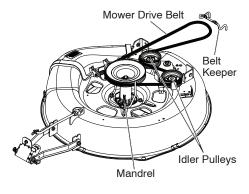
 Check wiring. Ensure all wiring and connectors are secure.

ENGINE

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your riding mower to a qualified service center for repair and/or adjustment.

TO REPLACE MOWER BLADE DRIVE BELT

- MOWER DRIVE BELT REMOVAL
- 1. Park riding mower on a level surface.
- 2. Set parking brake.
- 3. Lower mower to its lowest position.
- 4. Remove mandrel cover from mower deck.
- 5. Remove rear engine plate from unit.
- 6. Remove rear belt keeper from unit.
- 7. Carefully roll belt over the top of the mower blade mandrel.



- 8. Remove belt from idler pulleys.
- 9. Check idler pulleys to see that they rotate freely.

10. Remove belt from rear drive pulley. MOWER DRIVE BELT INSTALLATION Install in reverse order following instructions in "MOWER DRIVE BELT REMOVAL" section.

TO CHECK BRAKE

If riding mower requires more than four (4) feet to stop at highest speed in highest gear on a level, dry concrete or paved surface, then brake must be serviced.

You may also check brake by:

- 1. Park riding mower on a level, dry concrete or paved surface, depress clutch/ brake pedal all the way down and engage parking brake.
- 2. Place motion control lever in neutral position.

The rear wheels must lock and skid when you try to manually push the riding mower forward. If the rear wheels rotate, then the brake needs to be serviced. Contact a qualified service center.

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 "INSTALL STEERING COLUMN" section of this manual.

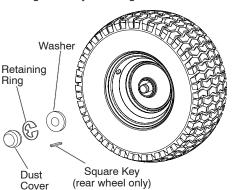
TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL

- 1. Block up front axle securely.
- 2. Remove dust cover, retaining ring, and washer to allow wheel removal.
- 3. Repair tire and reassemble.
- 4. Replace washer and retaining ring securely in axle groove.

REAR WHEEL

- 1. Block up Rear axle securely.
- 2. Remove dust cover, retaining ring, washer, and square key while pulling tire off.
- 3. Repair tire and reassemble.
- Replace square key while putting tire back on, then replace washer and retaining ring securely in axle groove.



NOTE: To seal tire punctures and prevent flat tires due to slow leaks, purchase and use tire sealant from authorized service center. Tire sealant also prevents tire dry rot and corrosion.

AIR FILTER

Your engine will not run properly using a dirty air filter. Service air cleaner more often under dusty conditions. See engine manual.

CLEAN AIR SCREEN

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

CLEAN AIR INTAKE/COOLING AREAS

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

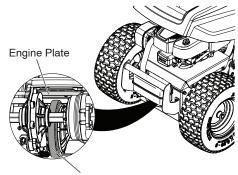
Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Ensure the cooling shrouds are reinstalled.

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.

CLEANING FRICTION SURFACES

To ensure proper drive performance keep the friction surfaces free from dirt, chaff and excess rubber at all times.

Every 25 hours of operation, the friction surfaces need to be rubbed clean with isopropyl alcohol or other non-filming cleaner.



Friction Disc

MUFFLER

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

SPARK PLUG(S)

Replace spark plug(s) 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.

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

SERVICE AND ADJUSTMENTS

A

WARNING: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- 1. Depress clutch/brake pedal fully and set parking brake.
- 2. Place motion control lever in neutral (N) position.
- 3. Place deck clutch in "DISENGAGED" position.
- 4. Turn ignition key to "STOP" and remove key.
- 5. Ensure the blade and all moving parts have completely stopped.
- 6. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

RIDING MOWER TO REMOVE MOWER

- Place deck clutch in "DISENGAGED" position.
- 2. Move mower height adjustment lift lever forward to lower mower to its lowest position.
- 3. Remove mandrel cover.
- 4. Remove pins holding left and right front mower suspension arms in place.
- Remove bolt holding deck front to rear leveling rod in place.

- 6. Remove pin holding deck lift link arm in place.
- 7. Remove bolt holding deck side to side leveling rod in place.
- 8. Remove belt from around pulleys.
- 9. Slide deck out from under side of mower.

TO INSTALL MOWER

Install in reverse order following instructions in "TO REMOVE MOWER" section.

TO LEVEL MOWER HOUSING

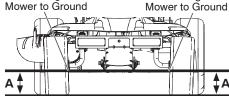
Adjust the mower while riding mower is parked on level ground or driveway. Ensure tires are properly inflated. If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT

- Raise mower to its highest position.
- Measure distance "A" from bottom edge of mower to ground level at front corners of mower.

Bottom Edge of

Bottom Edge of Mower to Ground

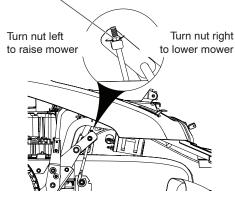


- To raise the right side of the mower, tighten lift link adjustment nut.
- To lower the right side of the mower, loosen lift link adjustment nut.

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

· Recheck measurements after adjusting.

Adjustment Nut

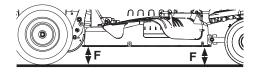


FRONT-TO-BACK ADJUSTMENT

IMPORTANT: Deck must be 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 riding mower. Measure distance "F" directly in front and behind the mandrel at bottom edge of mower housing as shown.



- To lower front of mower housing turn nuts "G" and "H" clockwise.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on front link.
- To raise front of mower housing turn nuts "G" and "H" counter clockwise.
- When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on front link.

NOTE: Each full turn of "G" will change "F" by approximately about 3/8".

Recheck side-to-side adjustment.

