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

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.
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.

KEY PART NO. 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
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
A socket wrench set will make assembly easier. Standard wrench sizes you need are listed below.

(1) 1/2" wrench  (1) Utility knife
(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

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.

ASSEMBLY/PRE-OPERATION

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.
6. Press steering wheel into position on shaft, install large washer, lock washer, bolt and tighten securely.
7. Snap steering wheel insert into center of steering wheel securely.
PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>component</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline Capacity</td>
<td>1.5 Gallons</td>
</tr>
<tr>
<td>Oil Type and Type</td>
<td>SAE 30 (above 32°F) SAE 5W30 (below 32°F)</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>48 oz</td>
</tr>
<tr>
<td>Spark Plug</td>
<td>Champion RC12YC (Gap: .030&quot;)</td>
</tr>
<tr>
<td>Ground Speed</td>
<td>Forward: 0 - 4 Reverse: 0 - 2</td>
</tr>
<tr>
<td>Charging System</td>
<td>3 Amps Battery 5 Amps Headlights</td>
</tr>
<tr>
<td>Blade Bolt Torque</td>
<td>45-55 Ft. Lbs.</td>
</tr>
</tbody>
</table>

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.

WARNING: 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

<table>
<thead>
<tr>
<th>KEY PART</th>
<th>NO. NO. DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 532 43 68-48</td>
<td>DECK</td>
</tr>
<tr>
<td>2 532 19 28-70</td>
<td>MANDREL ASM</td>
</tr>
<tr>
<td>3 532 43 68-56</td>
<td>KEEPER, BELT</td>
</tr>
<tr>
<td>4 532 43 68-55</td>
<td>PULLEY, MANDREL</td>
</tr>
<tr>
<td>5 532 44 15-97</td>
<td>BELT</td>
</tr>
<tr>
<td>6 532 43 68-63</td>
<td>COVER, MANDREL</td>
</tr>
<tr>
<td>7 532 43 67-34</td>
<td>LIFT ASM, DECK</td>
</tr>
<tr>
<td>8 532 43 96-38</td>
<td>DEFLECTOR</td>
</tr>
<tr>
<td>9 532 43 66-47</td>
<td>PIN, HINGE</td>
</tr>
<tr>
<td>10 532 43 74-62</td>
<td>SPRING, TORSION</td>
</tr>
<tr>
<td>11 532 19 51-85</td>
<td>ARM, MOWER SUPPORT</td>
</tr>
<tr>
<td>12 819 19 19-12</td>
<td>WASHER</td>
</tr>
<tr>
<td>13 532 19 42-09</td>
<td>PIN</td>
</tr>
<tr>
<td>14 532 19 65-39</td>
<td>BOLT, SHOULDER</td>
</tr>
<tr>
<td>15 532 19 42-08</td>
<td>PIN COTTER 5/16 BOW TIE LOCK</td>
</tr>
<tr>
<td>16 532 42 93-50</td>
<td>LINK ASM DECK</td>
</tr>
<tr>
<td>17 532 12 47-88</td>
<td>RETAINER SPRING 1&quot;</td>
</tr>
<tr>
<td>18 532 18 76-90</td>
<td>SPACER, MANDREL</td>
</tr>
<tr>
<td>19 532 17 39-84</td>
<td>BOLT, MANDREL</td>
</tr>
<tr>
<td>20 532 40 02-34</td>
<td>NUT FLANGE LOCK TOP</td>
</tr>
<tr>
<td>21 532 41 92-73</td>
<td>BLADE</td>
</tr>
<tr>
<td>22 532 19 30-03</td>
<td>BOLT, BLADE</td>
</tr>
<tr>
<td>23 532 19 31-97</td>
<td>PULLEY, IDLER</td>
</tr>
<tr>
<td>24 532 14 10-43</td>
<td>GUARD, IDLER TUV</td>
</tr>
<tr>
<td>25 872 11 06-12</td>
<td>BOLT 3/8-16 X 1 1/2</td>
</tr>
<tr>
<td>26 532 19 94-70</td>
<td>ARM, BRAKE</td>
</tr>
<tr>
<td>27 532 13 77-29</td>
<td>SCREW ThD ROLL 1/4-20 X 5/8</td>
</tr>
<tr>
<td>28 873 90 06-00</td>
<td>NUT, 3/8-16 FLANGE</td>
</tr>
<tr>
<td>29 819 17 16-16</td>
<td>WASHER, 16 GA.</td>
</tr>
<tr>
<td>30 532 43 68-57</td>
<td>ARM CLUTCHING</td>
</tr>
<tr>
<td>31 532 19 90-92</td>
<td>SPACER RETAINER</td>
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<tr>
<td>32 532 40 18-72</td>
<td>SPRING RETURN DECK</td>
</tr>
<tr>
<td>33 532 43 79-88</td>
<td>E-RING 5/16</td>
</tr>
<tr>
<td>34 532 43 68-62</td>
<td>ROD ANTI-SWAY</td>
</tr>
<tr>
<td>35 819 13 13-12</td>
<td>WASHER 13/32 X 13/16 X 12 GA.</td>
</tr>
<tr>
<td>36 532 43 68-58</td>
<td>GUARD TUV IDLER</td>
</tr>
<tr>
<td>37 532 43 79-47</td>
<td>MULCH COVER ASM</td>
</tr>
<tr>
<td>38 532 17 62-05</td>
<td>TRUNION SUSPENSION ARM</td>
</tr>
<tr>
<td>39 532 17 59-94</td>
<td>NUT LIFT LINK 7/16-20</td>
</tr>
<tr>
<td>40 817 67 06-08</td>
<td>SCREW THDROL 3/8-16 X 1/2</td>
</tr>
</tbody>
</table>

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm
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 into 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 POSITION 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.
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.
These symbols may appear on your riding mower or in literature supplied with the product. Learn and understand their meaning.

- **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.

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.
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).
- ✓ All component dimensions given in U.S. inches 1 inch = 25.4 mm

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).
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".

**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.
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.

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

TO OPERATE ON HILLS
- 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.

WARNING: 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.
- 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.

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

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

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.
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.

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.

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

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

RIDING MOWER
ELECTRICAL

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

KEY PART 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 72-26 HARNESS, IGN, ELECT, START, LRV
15 532 19 25-07 SOLENOID
16 817 72 04-06 SCREW THD CUT 1/4-20 X 1/2 TY23
17 673 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 15-98 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
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. Do not 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 “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/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.