WARNING: Read and follow all Safety Rules and Operating Instructions before using this product. Failure to do so can result in serious injury.

ADVERTENCIA: Lea el manual de instrucciones y siga todas las advertencias e instrucciones de seguridad. El no hacerlo puede resultar en lesiones graves.

AVERTISSEMENT: Lire le manuel d'instructions et bien respecter tous les avertissements et toutes les instructions de sécurité. Tout défaut de le faire pourrait entraîner des blessures graves.
**WARNING:** Avoid kickback which can result in serious injury. Kickback is the backward, upward or sudden forward motion of the guide bar occurring when the chain near the upper tip of the guide bar contacts any object such as a log or branch, or when the wood closes in and pinches the chain in the cut. Contacting a foreign object in the wood can also result in loss of control.

**WARNING:** Do not operate pruner from a ladder or unstable support. Always cut with both feet on solid ground to prevent being pulled off balance.

**WARNING:** This unit can be dangerous! Careless or improper use can cause serious injury.

Read the operator's manual before use. Failure to follow instructions could result in serious injury. Save operator's manual.
IDENTIFICATION OF SAFETY SYMBOLS

Trimmer line can throw objects violently. You can be blinded or injured. Wear protective gear. Always use steel-toed safety footwear with non-slip soles; snug-fitting clothing; heavy, long pants, and long sleeves; heavy-duty, non-slip gloves; eye protection marked Z87 such as non-fogging, vented goggles or face screen; an approved safety hard hat; and sound barriers (ear plugs or mufflers) to protect your hearing. Regular users should have hearing checked regularly as engine noise can damage hearing. Always use shoulder strap when operating unit.

Secure hair above shoulder length. Do not wear jewelry, loose clothing, or clothing with loosely hanging straps, ties, tassels, etc. They can be caught in moving parts.

Hazard zone. Keep children, bystanders, and animals a minimum of 50 feet (15 meters) away from the work area. Do not allow other people or animals to be near when starting or operating the pruner.

Hazard zone for thrown objects.
- Trimmer line throws objects violently.
- You and others can be blinded/injured.
- Keep children, bystanders, and animals 50 feet (15 meters) away.

Carefully plan your pruning operation in advance. Do not start cutting until you have a clear work area, secure footing, and a planned retreat path.

Do not operate a pruner with one hand. Serious injury to the operator, helpers, bystanders or any combination of these persons may result from one-handed operation. A pruner is intended for two-handed use.
IDENTIFICATION OF SAFETY SYMBOLS

WARNING: Fire hazard. Never mix, pour, or store gasoline or use the unit near a flame or sparks (including smoking, open flames, or work that can cause sparks).

Use unleaded gasoline and two-stroke oil mixed at a ratio of 40:1 (2.5%).

Assist handle to be positioned only below the arrow.

Never allow children to operate this unit.

Store unit indoors in a high, dry place out of the reach of children.

When servicing unit, use only identical replacement parts.

Always stop unit and disconnect spark plug before cleaning or servicing.
SAFETY RULES

**WARNING:** Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs except carburetor adjustments. Because a pruner is a high-speed wood-cutting tool, special safety precautions must be observed to reduce the risk of accidents. Careless or improper use of this tool can cause serious or even fatal injury.

**PLAN AHEAD**

- Read this manual carefully until you completely understand and can follow all safety rules, precautions, and operating instructions before attempting to use the unit.
- Restrict the use of your pruner to adult users who understand and can follow safety rules, precautions, and operating instructions found on the unit and in this manual.

**PRUNER SAFETY**

- Keep all parts of your body away from the chain when the engine is running.
- Do not handle or operate a pruner when you are fatigued, ill, or upset, or if you have taken alcohol, drugs, or medication. You must be in good physical condition and mentally alert. If you have any condition that might be aggravated by strenuous work, check with doctor before operating a pruner.
- Operate pruner only in a well-ventilated outdoor area.
- Do not use a pruner to cut down trees or any portion of the tree trunk.
- Only use for pruning limbs or branches overhead not greater than 6 inches (15 cm) in diameter.
- Do not cut small brush and saplings with the pruner. Slender matter may catch in the chain and be whipped toward you, pulling you off balance.
- Make sure the chain will not make contact with any object while starting the engine. Never try to start the unit when the guide bar is in a cut.
- Do not put pressure on the pruner at the end of the cut. Applying pressure can cause you to lose control when the cut is completed.
- Do not run the unit at high speed when not pruning.
- If you strike or become entangled with a foreign object, stop the engine immediately and check for damage. Have any damage repaired by an authorized service dealer before attempting further operations.
- Do not operate a pruner that is damaged, improperly adjusted, or not completely and securely assembled. Always replace bar and chain immediately if it becomes damaged, broken or is otherwise removed.

- Always disconnect spark plug wire and place wire where it cannot contact spark plug to prevent accidental starting when setting up, transporting, adjusting or making repairs except carburetor adjustments. Because a pruner is a high-speed wood-cutting tool, special safety precautions must be observed to reduce the risk of accidents. Careless or improper use of this tool can cause serious or even fatal injury.

**LINE TRIMMER SAFETY**

**WARNING:** Inspect the area to be trimmed before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown by or become entangled in line. Hard objects can damage the trimmer head and be thrown causing serious injury.

- Keep children, bystanders, and animals 50 feet (15 meters) away. Bystanders should be encouraged to wear safety glasses. Stop unit immediately if approached.
- Wear proper ear protection. Always wear safety glasses or similar eye protection when operating, or performing maintenance, on your unit (safety glasses are available). Eye protection should be marked Z87.
- Always wear face or dust mask if operation is dusty.
- Always wear heavy, long pants, long sleeves, boots, and gloves. Wearing safety leg guards is recommended.
- Always wear foot protection. Do not go barefoot or wear sandals. Stay clear of spinning line.
- Keep handles free of oil and fuel.
- Never start or run inside a closed room or building. Breathing exhaust fumes can kill.
- Keep handles free of oil and fuel.
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- Keep handles free of oil and fuel.
- Always keep engine on the right hand side of your body.
- Hold the unit firmly with both hands.
- Keep trimmer head (or other optional attachment) below waist level and away from all parts of your body. Do not raise engine above your waist.
- Keep all parts of your body away from muffler and spinning line (or other optional attachment). Keep engine below waist level. A hot muffler can cause serious burns.
- Keep firm footing and balance. Do not overreach or use from unstable surfaces such as ladders, trees, steep slopes, rooftops, etc.
- Use only in daylight or good artificial light.
- Use only for jobs explained in this manual (or manuals for optional attachments).
MAINTAIN YOUR UNIT IN GOOD WORKING ORDER

\textbf{WARNING:} Disconnect the spark plug before performing maintenance except carburetor adjustments.

- Look for and replace damaged or loose parts before each use. Look for and repair fuel leaks before use. Keep in good working condition.
- Make certain the chain stops moving when the throttle trigger is released. For correction, refer to CARBURETOR ADJUSTMENTS.
- Replace trimmer head parts that are chipped, cracked, broken, or damaged in any other way before using the unit.
- Never modify your unit in any way.
- Keep the handles dry, clean, and free of oil or fuel mixture.
- Keep fuel and oil caps, screws, and fasteners securely tightened.
- Maintain unit according to recommended procedures. Keep cutting line at proper length.
- Use only 0.080\textquotedbl (2 mm) diameter Poulan PRO brand line. Never use wire, rope, string, etc.
- Install required shield properly before using the unit. Use only specified trimmer head; make sure it is properly installed and securely fastened.
- Make sure unit is assembled correctly as shown in this manual.
- Make carburetor adjustments with lower end supported to prevent line from contacting any object.
- Keep others away when making carburetor adjustments.
- Use only recommended Poulan PRO accessories and replacement parts.
- Have all service performed by a qualified service dealer with the exception of the items listed in the maintenance section of this manual.

HANDLE FUEL WITH CAUTION

- Do not smoke while handling fuel or while operating the unit.
- Eliminate all sources of sparks or flame in the areas where fuel is mixed or poured. There should be no smoking, open flames, or work that could cause sparks. Allow engine to cool before refueling.
- Mix and pour fuel in an outdoor area on bare ground; store fuel in a cool, dry, well ventilated place; and use an approved, marked container for all fuel purposes. Wipe up all fuel spills before starting engine.
- Move at least 10 feet (3 meters) from fueling site before starting engine.
- Turn the engine off and let unit cool in a non-combustible area, not on dry leaves, straw, paper, etc. Slowly remove fuel cap and refuel unit.
- Store the unit and fuel in an area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Stop engine and allow to cool before removing fuel cap.
- Always store gasoline in a container approved for flammable liquids.

KICKBACK

\textbf{WARNING:} Avoid kickback which can result in serious injury. Kickback is the backward, upward or sudden forward motion of the guide bar occurring when the chain near the upper tip of the guide bar contacts any object such as a log or branch, or when the wood closes in and pinches the chain in the cut. Contacting a foreign object in the wood can also result in loss of control.

- Rotational Kickback can occur when the moving chain contacts an object at the upper tip of the guide bar. This contact can cause the chain to dig into the object, which stops the chain for an instant. The result is a lightning fast, reverse reaction which kicks the guide bar up and back toward the operator.
- Pinch-Kickback can occur when the wood closes in and pinches the moving chain in the cut along the top of the guide bar and the chain is suddenly stopped. This sudden stopping of the chain results in a reversal of the chain force used to cut wood and causes the pruner to move in the opposite direction of the chain rotation. The pruner is driven straight back toward the operator.
- Pull-In can occur when the moving chain contacts a foreign object in the wood in the cut along the bottom of the guide bar and the chain is suddenly stopped. This sudden stopping pulls the pruner forward and away from the operator and could easily cause the operator to lose control of the pruner.

REDUCE THE CHANCE OF KICKBACK

- Recognize that kickback can happen. With a basic understanding of kickback, you can reduce the element of surprise which contributes to accidents.
- Never let the moving chain contact any object at the tip of the guide bar.
- Keep the working area free from obstructions such as other trees, branches, rocks, stumps, etc. Eliminate or avoid any obstruction that your chain could hit while you are cutting. When cutting a branch, do not let the guide bar contact branch or other objects around it.
- Keep your chain sharp and properly tensioned. A loose or dull chain can increase the chance of kickback occurring. Follow manufacturer’s chain sharpening and maintenance instructions. Check tension at regular intervals with the engine stopped, never with the engine running. Make sure the bar clamp nut is securely tightened after tensioning the chain.
- Begin and continue cutting at full speed. If the chain is moving at a slower speed, there is greater chance of kickback occurring.
- Cut one branch at a time.
- Use extreme caution when re-entering a previous cut.
• Do not attempt cuts starting with the tip of the bar (plunge cuts).
• Watch for shifting of wood or other forces that could close a cut and pinch or fall into chain.
• Use the Reduced-Kickback Guide Bar and Low-Kickback Chain specified for your unit.

MAINTAIN CONTROL

• Keep a good, firm grip on the pruner with both hands when the engine is running and don't let go. A firm grip will help you reduce kickback and maintain control. Keep the fingers of your left hand encircling and your left thumb under the assist handle. Keep your right hand completely around the throttle handle whether your are right handed or left handed.
• Stand with your weight evenly balanced on both feet.
• Stand slightly to the left side of the pruner to keep your body from being in a direct line with the cutting chain.

KICKBACK SAFETY FEATURES

The following features are included on your pruner to help reduce the hazard of kickback; however, such features will not totally eliminate this danger. As a pruner user, do not rely only on safety devices. You must follow all safety precautions, instructions, and maintenance in this manual to help avoid kickback and other forces which can result in serious injury.
• Reduced-Kickback Guide Bar, designed with a small radius tip which reduces the size of the kickback danger zone on the bar tip.
• Low-Kickback Chain, designed with a contoured depth gauge and guard link which deflect kickback force and allow wood to gradually ride into the cutter.

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

SAFETY NOTICE: Exposure to vibrations through prolonged use of gasoline powered hand tools could cause blood vessel or nerve damage in the fingers, hands, and joints of people prone to circulation disorders or abnormal swellings. Prolonged use in cold weather has been linked to blood vessel damage in otherwise healthy people. If symptoms occur such as numbness, pain, loss of strength, change in skin color or texture, or loss of feeling in the fingers, hands, or joints, discontinue the use of this tool and seek medical attention. An anti-vibration system does not guarantee the avoidance of these problems. Users who operate power tools on a continual and regular basis must monitor closely their physical condition and the condition of this tool.

SPECIAL NOTICE: This unit is equipped with a temperature limiting muffler and spark arresting screen which meets the requirements of California Codes 4442 and 4443. All U.S. forest land and the states of California, Idaho, Maine, Minnesota, New Jersey, Oregon, and Washington require by law that many internal combustion engines be equipped with a spark arresting screen. If you operate in a locale where such regulations exist, you are legally responsible for maintaining the operating condition of these parts. Failure to do so is a violation of the law. For normal homeowner use, the muffler and spark arresting screen will not require any service. After 50 hours of use, we recommend that your muffler be serviced or replaced by an authorized service dealer.

ADDITIONAL SAFETY RULES FOR OPTIONAL ATTACHMENTS

WARNING: For each optional attachment used, read entire instruction manual before use and follow all warnings and instructions in manual and on attachment.

WARNING: Ensure handlebar is installed when using brushcutter attachment. Attach handlebar above arrow on safety label on the upper shaft (engine end of unit). If your brushcutter attachment does not include a
handlebar, a handlebar accessory kit (#530071451) is available from your authorized service dealer.

EDGER SAFETY

⚠ WARNING: Inspect the area to be edged before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown by the blade or can wrap around the shaft.

⚠ WARNING: Blade rotates momentarily after the trigger is released or engine is turned off. The blade can seriously cut you or others. Allow blade to stop before removing it from the cut.

- Throw away blades that are bent, warped, cracked, broken or damaged in any other way. Replace parts that are cracked, chipped, or damaged before using the unit.
- Do not attempt to remove cut material nor hold material to be cut when the engine is running or when cutting blade is moving.
- Always keep the wheel and depth adjusting skid in contact with the ground.
- Always push the unit slowly over the ground. Stay alert for uneven sidewalks, holes in the terrain, large roots, etc.

BLOWER/VACUUM SAFETY

⚠ WARNING: Inspect area before starting unit. Remove all debris and hard objects such as rocks, glass, wire, etc. that can ricochet, be thrown, or otherwise cause injury or damage during operation.
- Do not set unit on any surface except a clean, hard area while engine is running. Debris such as gravel, sand, dust, grass, etc., could be picked up by the air intake and thrown out through discharge opening, damaging unit, property, or causing serious injury to bystanders or operator.
- Never place objects inside the blower tubes, vacuum tubes or blower outlet. Always direct the blowing debris away from people, animals, glass, and solid objects such as trees, automobiles, walls, etc. The force of air can cause rocks, dirt, or sticks to be thrown or to ricochet which can hurt people or animals, break glass, or cause other damage.
- Never run unit without the proper equipment attached. When using your unit as a blower, always install blower tubes.
- Check air intake opening, blower tubes or vacuum tubes frequently, always with engine stopped and spark plug disconnected. Keep vents and discharge tubes free of debris which can accumulate and restrict proper air flow.
- Never place any object in air intake opening as this could restrict proper air flow and cause damage to the unit.
- Never use for spreading chemicals, fertilizers, or other substances which may contain toxic materials.
- To avoid spreading fire, do not use near leaf or brush fires, fireplaces, barbecue pits, ashtrays, etc.

BRUSHCUTTER SAFETY

⚠ DANGER: Blade can thrust violently away from material it does not cut. Blade thrust can cause amputation of arms or legs.

⚠ WARNING: Do not use trimmer head as a fastening device for the blade.

⚠ WARNING: The blade continues to spin after the trigger is released or engine is turned off. The coasting blade can throw objects or seriously cut you if accidentally touched. Stop the blade by contacting the right hand side of the coasting blade with material already cut.

⚠ WARNING: Inspect the area to be cut before each use. Remove objects (rocks, broken glass, nails, wire, etc.) which can be thrown or become entangled in the blade or trimmer line.
- Throw away and replace blades that are bent, warped, cracked, broken or damaged in any other way.
- Install required shield properly before using the unit. Use the metal shield for all metal blade use.

**WARNING:** Only use brushcutter attachments that provide a metal shield with proboscis nose.

- Use only specified blade and make sure it is properly installed and securely fastened.
- Cut from your left to your right. Cutting on the right side of the shield will throw debris away from the operator.
- Always use the handlebar and a properly adjusted shoulder strap with blade (see ASSEMBLY instructions in brushcutter attachment instruction manual).

**CULTIVATOR SAFETY**

**WARNING:** Rotating tines can cause serious injury. Keep away from rotating tines.
- Do not use a cutting blade that is bent, warped, cracked, broken or damaged in any other way. Have worn or damaged parts replaced by your authorized service dealer.
- Always keep unit in front of your body. Keep all parts of your body away from the cutting blade.
- Keep the cutting blade and air vents clear of debris.

**WARNING:** Inspect the area before starting the unit. Remove all debris and hard and sharp objects such as rocks, vines, branches, rope, string, etc.
- Avoid heavy contact with solid objects that might stop the tines. If heavy contact occurs, stop the engine and inspect the unit for damage.
- Never operate the cultivator without the tine cover in place and properly secured.
- Keep the tines and guard clear of debris.
- After striking a foreign object, stop the engine, disconnect the spark plug and inspect the cultivator for damage. Repair before restarting.
- Disconnect attachment from the drive engine before cleaning the tines with a hose and water to remove any build-up. Oil the tines to prevent rust.
- Always wear gloves when servicing or cleaning the tines. The tines become very sharp from use.
- Do not run unit at high speed unless cultivating.

**HEDGE TRIMMER SAFETY**

**DANGER:** RISK OF CUT; KEEP HANDS AWAY FROM BLADE - Blade moves momentarily after the trigger is released or engine is turned off. Do not attempt to clear away cut material when the blade is in motion. Make sure engine is stopped, the spark plug wire is disconnected, and the blade has stopped moving before removing jammed material from the cutting blade. Do not grab or hold the unit by the cutting blade.

- Disconnect attachment from the drive engine before cleaning the tines with a hose and water to remove any build-up. Oil the tines to prevent rust.
- Always wear gloves when servicing or cleaning the tines. The tines become very sharp from use.
- Do not run unit at high speed unless cultivating.

**WARNING:** Inspect the area before starting the unit. Remove all debris and hard objects such as rocks, glass, wire, etc. that can ricochet, be thrown, or otherwise cause injury or damage during operation.
- Keep hands and feet away from the rotor when starting or running the engine. Never attempt to clear the rotor with the engine/motor running. Stop engine and disconnect spark plug before unclogging snow or debris from discharge chute or when adjusting vanes.

**WARNING:** Never lean over discharge chute. Rocks or debris could be thrown into the eyes and face and cause serious injury or blindness.

**WARNING:** Inspect the area where the unit is to be used. Remove objects that could be thrown or damage the unit. Some objects may be hidden by fallen snow – be alert for the possibility.
• Direct material discharge away from glass enclosures, automobiles, etc.
• Do not run engine at high speed while not removing snow.
• Be attentive when using the snowthrower, and stay alert for holes in the terrain and other hidden hazards.
• Make sure the rotor will spin freely before attaching the snowthrower to the powerhead.
• If the rotor will not rotate freely due to frozen ice, thaw the unit before thoroughly before attempting to operate under power.
• Keep the rotor clear of debris. The snow thrower could propel small objects at high speed causing injury.
• After striking a foreign object, stop the engine, disconnect spark plug and inspect the snowthrower for damage and repair if necessary before restarting unit.

**WARNING:** If received assembled, repeat all steps to ensure your unit is properly assembled and all fasteners are secure. Examine parts for damage. Do not use damaged parts.

**NOTE:** If you need assistance or find parts missing or damaged, call 1-800-554-6723. It is normal for the fuel filter to rattle in the empty fuel tank.

Finding fuel or oil residue on muffler is normal due to carburetor adjustments and testing done by the manufacturer.

**TOOLS REQUIRED**
- Hex wrench (provided)

**INSTALLING PRUNER OR LINE TRIMMER ATTACHMENTS**

**CAUTION:** When removing or installing attachments, place the unit on a flat surface for stability.

**NOTE:** The pruner attachment connects to the engine end shaft through use of a coupler system. For extra reach, the extension shaft (included) can be used.

1. Loosen the couplers on the extension shaft and on the engine end shaft by turning the knobs counterclockwise.
2. Remove shipping protector from coupler.
3. Remove the shaft cap from the pruner attachment (if present).
4. Position locking/release button of attachment into guide recess of coupler on extension shaft.
5. Push the attachment into the coupler until the locking/release button snaps into the primary hole.
6. Repeat steps to attach extension shaft to coupler on engine end shaft.
7. Before using the unit, tighten both knobs securely by turning clockwise.

**WARNING:** Make sure the locking/release button is locked in the primary hole of both couplers and the knobs are securely tightened before operating the unit. Using the wrong holes could lead to serious injury or damage to the unit.

For assembly of optional attachments (see list on page 13), refer to the ASSEMBLY section of the applicable attachment instruction manual.
SHOULDER STRAP ASSEMBLY

**WARNING:** Proper shoulder strap adjustments must be made with the engine completely stopped before using unit.

1. Try on shoulder strap and adjust for fit and balance before starting the engine or beginning a cutting operation.
2. Insert your right arm and head through the shoulder strap and allow it to rest on your left shoulder. Make sure the danger sign is centered on your back and the hook is to the right side of your waist.

**NOTE:** A one-half twist is built in the shoulder strap to allow the strap to rest flat on the shoulder.

3. Adjust the strap, allowing the hook to be about 3 - 6 inches (8 - 15 cm) below the waist.
4. Fasten the strap hook to the clamp located between the throttle handle and the assist handle and lift the tool to the operating position.

**NOTE:** It may be necessary to relocate the shoulder strap clamp on the shaft for proper balancing of unit.

**TO RELOCATE SHOULDER STRAP CLAMP:**
1. Loosen and remove both clamp screws.
2. Place the upper shoulder strap clamp over the upper shaft.
3. Position the lower shoulder strap clamp under the upper shaft and align the upper and lower clamp screw holes.
4. Insert two screws into the screw holes.
5. Secure shoulder strap clamp by tightening screws with a hex wrench.

**ADJUSTING THE ASSIST HANDLE**

**WARNING:** When adjusting the assist handle, be sure it remains between the coupler and the lower arrow (closest to coupler) on the safety label to ensure proper balancing of unit. When adjusting the assist handle or handlebar during use of optional attachments, it must be repositioned between the throttle trigger and the upper arrow (closest to engine) on the safety label.

1. Loosen wing nut on handle.
2. Rotate the handle on the shaft to an upright position; reposition and tighten wing nut.

**ATTACHING SHIELD (FOR LINE TRIMMER ATTACHMENT)**

**WARNING:** The shield must be properly installed. The shield provides partial protection from the risk of thrown objects to the operator and others and is equipped with a line limiter blade which cuts excess line to the proper length. The line limiter blade (on underside of shield) is sharp and can cut you. For proper orientation of shield, see KNOW YOUR TRIMMER illustration in OPERATION section.

1. Remove wing nut from shield.
2. Insert bracket into slot as shown.
3. Pivot shield until bolt passes through hole in bracket.
4. Securely tighten wing nut onto bolt.
KNOW YOUR PRUNER
READ THIS INSTRUCTION MANUAL AND SAFETY RULES BEFORE OPERATING YOUR UNIT.
Compare the illustrations with your unit to familiarize yourself with the location of the various controls and adjustments. Save this manual for future reference.

ON/STOP SWITCH
The ON/STOP switch is located on the trigger handle and is used to stop the engine. To stop the engine, push and release the engine ON/STOP switch.

PRIMER BULB
The PRIMER BULB removes air from the carburetor and fuel lines and fills them with fuel. This allows you to start the engine with fewer pulls on the starter rope. Activate the primer bulb by pressing it and allowing it to return to its original form.

START LEVER
The START LEVER helps to supply fuel to the engine to aid in starting. Activate the starting system by moving the start lever to the START position. DO NOT squeeze the throttle trigger until the engine has started and runs. After the engine starts, allow the engine to warm-up 5 seconds, then fully squeeze the throttle trigger to deactivate the starting system.

COUPLER
The COUPLER enables optional attachments to be installed on the unit.

CHAIN TENSION
It is normal for a new chain to stretch during first 15 minutes of operation. You should check your chain tension frequently. See CHAIN TENSION in the SERVICE AND ADJUSTMENTS section.

BEFORE STARTING ENGINE
WARNING: Be sure to read the fuel information in the safety rules before you begin. If you do not understand the safety rules, do not attempt to fuel your unit. Call 1-800-554-6723.

FUELING ENGINE
WARNING: Remove fuel cap slowly when refueling.

HELPFUL TIP
To obtain the correct oil mix ratio, pour 3.2 ounces of 2-cycle synthetic oil into one gallon of fresh gas.

This engine is certified to operate on unleaded gasoline. Before operation, gasoline must be mixed with a good quality synthetic 2-cycle air-cooled engine oil designed to be mixed at a ratio of 40:1. Poulan/WEED EATER brand synthetic oil is recommended. Mix gasoline and oil at a ratio of 40:1. A 40:1 ratio is obtained by mixing 3.2 fluid ounces (95 ml) of oil with 1 gallon (4 liters) of unleaded gasoline. DO NOT USE automotive oil or marine oil. These oils will cause engine damage. When mixing fuel, follow instructions printed on container. Once oil is added to gasoline, shake container momentarily to assure that the fuel is thoroughly mixed. Always read and follow the safety rules relating to fuel before fueling your unit.
**CAUTION:** Never use straight gasoline in your unit. This will cause permanent engine damage and void the limited warranty.

**FUEL REQUIREMENTS**

This engine requires the use of minimum 87 octane \[R+M/2\] clean gasoline.

**IMPORTANT**

Use of alcohol blended fuels (called gasohol or using ethanol or methanol) can cause major engine performance and durability problems.

**WARNING:** Alternative fuels (not gasoline) such as E-15 (15% alcohol), E-20 (20% alcohol), E-85 (85% alcohol) are NOT classified as gasoline and are NOT approved for use in 2-stroke gasoline engines. Use of alternative fuels will cause problems such as: improper clutch engagements, overheating, vapor lock, power loss, lubrication deficiencies, deterioration of fuel lines, gaskets and internal carburetor components, etc. Alternative fuels cause high moisture absorption into the fuel/oil mixture leading to oil and fuel separation.

**BAR AND CHAIN LUBRICATION**

The bar and chain require lubrication. The chain oiler provides continuous lubrication to the chain and guide bar. Be sure to fill the bar oil tank when you fill the fuel tank (Capacity = 4.6 fl. oz.). Lack of oil will quickly ruin the bar and chain. Too little oil will cause overheating shown by smoke coming from the chain and/or discoloration of the bar. The oil output is automatically metered during operation. Always fill the bar oil tank when you fill the fuel tank. Genuine Poulan or Poulan PRO bar and chain oil is recommended to protect your unit against excessive wear from heat and friction. Poulan or Poulan PRO oil resists high temperature thinning. If Poulan or Poulan PRO bar and chain oil is not available, use a good grade SAE 30 oil.

- Never use waste oil for bar and chain lubrication.
- Always stop the engine before removing the oil cap.

**HOW TO STOP YOUR UNIT**

- Release the throttle trigger.
- Push and release the engine ON/STOP switch. The switch will automatically return to the ON position. Wait 5 seconds before attempting to restart unit to allow switch to reset.

**HOW TO START YOUR UNIT**

**WARNING:** Make sure the chain will not make contact with any object while starting the engine. Never try to start the unit when the guide bar is in a cut. Avoid any contact with the muffler. A hot muffler can cause serious burns.

**STARTING A COLD ENGINE**

**NOTE:** DO NOT squeeze the throttle trigger until the engine has started and runs.

1. Set unit on a flat surface.
2. Slowly press the primer bulb 6 times.
3. Move the start lever to the START position.
4. Pull starter rope handle sharply until engine starts and runs.
5. Allow unit to run for 10-15 seconds, then fully squeeze the throttle trigger to disengage the starting system.

**STARTING A WARM ENGINE**

Pull starter rope sharply while squeezing throttle trigger until engine runs.

**NOTE:** Normally, the warm starting procedure can be used within 5-10 minutes after the unit is turned off. If the unit sits for more than 10 minutes without being ran, it will be necessary to start the unit by following the steps under STARTING A COLD ENGINE or following the starting instruction steps shown on the unit.

**STARTING A FLOODED ENGINE**

Move the start lever to the RUN position and fully squeeze throttle trigger. Pull the starter handle repeatedly while squeezing throttle trigger until engine starts and runs. This could require pulling the starter handle many times, depending on how badly the unit is flooded. If the unit still doesn’t start, refer to TROUBLE-SHOOTING TABLE or call 1-800-554-6723.

**OPERATING THE COUPLER**

This model is equipped with a coupler which enables optional attachments to be installed. The optional attachments are:

<table>
<thead>
<tr>
<th>MODEL</th>
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<tbody>
<tr>
<td>Edger</td>
<td>PP1000E</td>
</tr>
<tr>
<td>Cultivator</td>
<td>PP2000T</td>
</tr>
<tr>
<td>Blower</td>
<td>PP3000B</td>
</tr>
<tr>
<td>Brushcutter</td>
<td>PP4000C</td>
</tr>
</tbody>
</table>
WARNING: Always stop unit and disconnect spark plug before removing or installing attachments.

REMOVING PRUNER ATTACHMENT, LINE TRIMMER ATTACHMENT, OR OTHER OPTIONAL ATTACHMENTS

CAUTION: When removing or installing attachments, place the unit on a flat surface for stability.
1. Loosen the coupler by turning the knob counterclockwise.
2. Press and hold the locking/release button.
3. While securely holding the engine end shaft and extension shaft, pull the attachment straight out of the extension shaft coupler.
4. Repeat steps to remove extension shaft from coupler on engine end shaft.

INSTALLING OPTIONAL ATTACHMENTS

1. Remove the shaft cap from the attachment (if present).
2. Position locking/release button of attachment into guide recess of coupler on engine end shaft.
3. Push the attachment into the coupler until the locking/release button snaps into the primary hole.
4. Before using the unit, tighten the knob securely by turning clockwise.

WARNING: Make sure the locking/release button is locked in the primary hole and the knob is securely tightened before operating the unit. All attachments are designed to be used in the primary hole unless otherwise stated in the applicable attachment instruction manual. Using the wrong hole could lead to serious injury or damage to the unit.

LOCKING/RELEASE BUTTON IN PRIMARY HOLE

INSTALLING ATTACHMENT HANGER

An attachment hanger is provided for storage when attachment is not in use.
To install hanger on attachment:
1. Remove the shaft cap from the attachment (if present) and discard.
2. Press and hold the locking/release button.
3. Push hanger onto the attachment until the locking/release button snaps into the hole.

OPERATING INSTRUCTIONS

It is recommended that the engine not be operated for longer than 1 minute at full throttle.

OPERATING INSTRUCTIONS FOR PRUNER ATTACHMENT

OPERATING POSITION

ALWAYS WEAR:

Head protection
Eye protection
Long pants
Heavy shoes

DANGER: Do not extend arms above shoulders while pruning. Do not stand beneath branch being cut.

WARNING: Always wear head, eye, hearing, foot and body protection to reduce the risk of injury when operating this unit.
When operating unit, clip shoulder strap onto clamp, stand as shown and check for the following:
• Extend your left arm and hold assist handle with your left hand.
• Hold throttle grip with your right hand with finger on throttle trigger.
• Keep engine end below waist level.

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• Keep shoulder strap pad centered on your
  left shoulder and danger sign centered on
  your back.
• Maintain full weight of tool on your left
  shoulder.
Always release the throttle trigger and allow the
engine to return to idle speed when not pruning.
To stop engine:
• Release the throttle trigger.
• Push and release the engine ON/STOP
  switch.

PRUNING

**WARNING:** Be alert for and guard against kickback. Do not allow the moving chain to contact any other branches or objects at the nose of the guide bar when pruning. Allowing such contact can result in serious injury.

**IMPORTANT POINTS**
• Work slowly, keeping both hands firmly gripped on the pruner. Maintain secure footing and balance.
• Plan cut carefully. Check direction branch will fall.
• Watch out for springpoles. Springpoles are small size limbs which can catch the chain and whip toward you or pull you off balance. Use extreme caution when cutting small size limbs or slender material.
• Watch out for branches immediately behind the branch being pruned. If the chain hits the rear branch, damage to the unit may occur.
• Be alert for springback. Watch out for branches that are bent or under pressure. Avoid being struck by the branch or the pruner when the tension in the wood fibers is released.
• Keep a clear work area. Frequently clear branches out of the way to avoid tripping over them.
• Long branches should be removed in several pieces.

**PRUNING TECHNIQUE**
When ready to cut, accelerate to full throttle and apply a light cutting pressure. DO NOT use back and forth sawing action.

1. Make the first cut 6 inches (15 cm) from the tree trunk on the bottom of the limb. Use top of guide bar to make this cut. Cut 1/3 through the diameter of the limb.

**NOTE:** When making the second and third cuts, rest the foot of the pruner against the tree limb that is being cut to prevent whipping of the branch.

2. Next, move 2 - 4 inches (5 - 10 cm) farther out on the limb and make a second cut all the way through the limb.

3. Then, make a final cut leaving a 1 - 2 inch (2.5 - 5 cm) collar from the trunk of the tree to avoid damage to the tree.

**OPERATING INSTRUCTIONS FOR TRIMMER ATTACHMENT**

**OPERATING POSITION**

**ALWAYS WEAR:**

- Eye protection
- Long pants
- Heavy shoes

Cut from your right to your left.

**WARNING:** Always wear eye protection. Never lean over the trimmer head. Rocks or debris can ricochet or be thrown into eyes and face and cause blindness or other serious injury.
Do not run the engine at a higher speed than necessary. The cutting line will cut efficiently when the engine is run at less than full throttle.
At lower speeds, there is less engine noise and vibration. The cutting line will last longer and will be less likely to “weld” onto the spool.
Always release the throttle trigger and allow the engine to return to idle speed when not cutting.

To stop engine:
• Release the throttle trigger.
• Push and release the engine ON/STOP
  switch.
TRIMMER LINE ADVANCE
The trimmer line will advance approximately 2 inches (5 cm) each time the bottom of the trimmer head is tapped on the ground with the engine running at full throttle.
The most efficient line length is the maximum length allowed by the line limiter.
Always keep the shield in place when the tool is being operated.
To advance line:
• Operate the engine at full throttle.
• Hold the trimmer head parallel to and above the grassy area.
• Tap the bottom of the trimmer head lightly on the ground one time. Approximately 2 inches (5 cm) of line will be advanced with each tap.
Always tap the trimmer head on a grassy area. Tapping on surfaces such as concrete or asphalt can cause excessive wear to the trimmer head.
If the line is worn down to 2 inches (5 cm) or less, more than one tap will be required to obtain the most efficient line length.
WARNING: Use only 0.080” (2 mm) diameter line. Other sizes of line will not advance properly and can cause serious injury.
Do not use other materials such as wire, string, rope, etc. Wire can break off during cutting and become a dangerous missile that can cause serious injury.
CUTTING METHODS
WARNING: Use minimum speed and do not crowd the line when cutting around hard objects (rock, gravel, fence posts, etc.), which can damage the trimmer head, become entangled in the line, or be thrown causing a serious hazard.
• The tip of the line does the cutting. You will achieve the best performance and minimum line wear by not crowding the line into the cutting area. The right and wrong ways are shown below.
  Tip of the Line Does The Cutting
  Line Crowded Into Work Area
  Right
  Wrong
• The line will easily remove grass and weeds from around walls, fences, trees and flower beds, but it also can cut the tender bark of trees or shrubs and scar fences.
• For trimming or scalping, use less than full throttle to increase line life and decrease headwear, especially:
  • During light duty cutting.
  • Near objects around which the line can wrap such as small posts, trees or fence wire.
• For mowing or sweeping, use full throttle for a good clean job.

TRIMMING - Hold the bottom of the trimmer head about 3 inches (8 cm) above the ground and at an angle. Allow only the tip of the line to make contact. Do not force trimmer line into work area.

Trimming

3 inches (8 cm) above ground

SCALPING - The scalping technique removes unwanted vegetation down to the ground. Hold the bottom of the trimmer head about 3 inches (8 cm) above the ground and at an angle. Allow the tip of the line to strike the ground around trees, posts, monuments, etc. This technique increases line wear.

Scalping

MOWING - Your trimmer is ideal for mowing in places conventional lawn mowers cannot reach. In the mowing position, keep the line parallel to the ground. Avoid pressing the head into the ground as this can scalp the ground and damage the tool.

Mowing

SWEEPING - The fanning action of the rotating line can be used for a quick and easy clean up. Keep the line parallel to and above the surfaces being swept and move the tool from side to side.

Sweeping
MAINTENANCE

WARNING: Disconnect the spark plug before performing maintenance except for carburetor adjustments.

HELPFUL TIP
IMPORTANT: Have all repairs other than the recommended maintenance described in the instruction manual performed by an authorized service dealer. If any dealer other than an authorized service dealer performs work on the product, Poulan PRO may not pay for repairs under warranty. It is your responsibility to maintain and perform general maintenance.

CHECK FOR LOOSE FASTENERS AND PARTS
- Spark Plug Boot
- Air Filter
- Housing Screws
- Assist Handle Screw
- Debris Shield

CHECK FOR DAMAGED OR WORN PARTS
Contact an authorized service dealer for replacement of damaged or worn parts.
- ON/STOP Switch - Ensure ON/STOP switch functions properly by pushing and releasing the switch. Make sure engine stops. Wait 5 seconds before attempting to restart unit to allow switch to reset. Restart engine and continue.
- Fuel tank - Discontinue use of unit if fuel tank shows signs of damage or leaks.
- Oil tank - Discontinue use of unit if oil tank shows signs of damage or leaks.
- Debris shield - Discontinue use of unit if debris shield is damaged.

INSPECT AND CLEAN UNIT AND LABELS
- After each use, inspect complete unit for loose or damaged parts. Clean the unit and labels using a damp cloth with a mild detergent.
- Wipe off unit with a clean dry cloth.

CHECK CHAIN TENSION
WARNING: Wear protective gloves when handling chain. The chain is sharp and can cut you even when it is not moving. Make chain adjustments with lower end supported. Chain tension is very important. Chains stretch during use. This is especially true during the first few times you use your pruner. Always check chain tension each time you use and refuel your unit.

1. Use the screwdriver end of the chain adjustment tool (bar tool) to move chain around guide bar to ensure kinks do not exist. The chain should rotate freely.

2. Loosen bar clamp nut until it is finger tight against the bar clamp.

3. Turn adjusting screw clockwise until chain solidly contacts bottom of guide bar rail. Then, turn adjusting screw an additional 1/4 turn.

4. Using bar tool, roll chain around guide bar to ensure all links are in bar groove.

5. Lift tip of guide bar to check for sag. Release tip of guide bar, then turn adjusting screw 1/4 turn clockwise. Repeat until sag does not exist.

6. While lifting tip of guide bar, tighten bar clamp nut securely with the bar tool.

7. Use the screwdriver end of the bar tool to move chain around guide bar.

8. If chain does not rotate, it is too tight. Slightly loosen bar clamp nut and loosen chain by turning the adjusting screw 1/4 turn counterclockwise. Retighten bar clamp nut.

9. If chain is too loose, it will sag below the guide bar and needs to be tightened following above procedure.

WARNING: DO NOT operate the pruner if the chain is loose. If the pruner is operated with a loose chain, the chain could jump off the guide bar and result in serious injury.

CHECK CHAIN SHARPNESS
A sharp chain makes wood chips. A dull chain makes a sawdust powder and cuts slowly. See CHAIN SHARPENING in the SERVICE AND ADJUSTMENTS section.

CLEAN AIR FILTER
A dirty air filter decreases engine performance and increases fuel consumption and harmful emissions. Always clean after every 5 hours of operation.
1. Clean the cover and the area around it to keep dirt from falling into the carburetor chamber when the cover is removed.
2. Loosen knob by turning counterclockwise. Remove air filter cover and air filter.

**NOTE:** To avoid creating a fire hazard or producing harmful evaporative emissions, do not clean filter in gasoline or other flammable solvent.
3. Wash the filter in soap and water.
4. Allow filter to dry.
5. Replace parts.

### BAR MAINTENANCE

If your pruner cuts to one side, has to be forced through the cut, or been run with an improper amount of bar lubrication it may be necessary to service your bar. A worn bar will damage your chain and make cutting difficult. After each use, clean all sawdust from the guide bar and sprocket hole.

To maintain guide bar:
- Disconnect spark plug.
- Loosen and remove bar clamp nut and chain brake. Remove bar and chain from pruner.
- Clean the oil holes and bar groove after each 5 hours of operation.

### SERVICE AND ADJUSTMENTS

**WARNING:** Disconnect the spark plug before performing maintenance, service, or adjustments except for carburetor adjustments.

**CHAIN SHARPENING**

**WARNING:** Improper chain sharpening techniques and/or depth gauge maintenance will increase the chance of kickback which can result in serious injury.

**WARNING:** Wear protective gloves when handling chain. The chain is sharp and can cut you even when it is not moving.

Conditions which indicate the need for chain sharpening:
- Reduction in size of wood chips. The size of the wood chip will decrease as the chain gets duller until it becomes more like a powder than a chip. Note that dead or rotted wood will not produce a good chip.
- Saw cuts to one side or at an angle.
- Saw has to be forced through the cut.

**Tools required:**
- 3/16 inch (4.5 mm) diameter round file and file holder
- Flat file
- Depth gauge tool

### LUBRICATION

- See GUIDE BAR AND CHAIN OIL under the OPERATION section.

### MUFFLER AND SPARK ARRESTING SCREEN

**WARNING:** The muffler on this product contains chemicals known to the State of California to cause cancer.

As your unit is used, carbon deposits build up on the muffler and spark arresting screen. For normal homeowner use, however, the muffler and spark arresting screen will not require any service. After 50 hours of use, we recommend that your muffler be serviced or replaced by your authorized service dealer.

### REPLACE SPARK PLUG

Replace the spark plug each year to ensure the engine starts easier and runs better. Inspect spark plug every 25 hours of usage. Clean and/or replace as necessary. Set spark plug gap at 0.025 inch (0.6 mm). Ignition timing is fixed and nonadjustable.

1. Twist, then pull off spark plug boot.
2. Remove spark plug from cylinder and discard.
3. Replace with Champion RCJ-6Y spark plug and tighten securely with a 3/4 inch (19 mm) socket wrench.
4. Reinstall the spark plug boot.
TO SHARPEN CHAIN:
1. Disconnect spark plug.
2. Check chain for proper tension. Adjust chain tension if necessary. See CHECK CHAIN TENSION section.
3. Sharpen cutters:
   - To sharpen the cutters, position the file holder level (90°) so that it rests on the top edges of the cutter and depth gauge.
   - **NOTE:** The chain has both left and right hand cutters.
   - Align the 30° file holder marks parallel with the bar and to the center of the chain.
   - Sharpen cutters on one side of the chain first. File from the inside of each cutter to the outside. Then, turn the chain saw around and repeat the process for the other side of the chain.
   - File on the forward stroke only. Use 2 or 3 strokes per cutting edge.
   - Keep all cutters the same length when filing.
   - File enough to remove any damage to cutting edges (side plate and top plate of cutter).
   - **All Cutters Same Length**
   - File chain to meet the specifications as shown.

**WARNING:** Maintain the proper hook angle according to the manufacturer’s specifications for the chain you are using. Improper hook angle will increase the chance of kickback which can result in serious injury.

4. Check and lower depth gauges:
   - Place gauge tool on cutter.
   - If the depth gauge is higher than the depth gauge tool, file it level to the top of the depth gauge tool.
   - Maintain rounded front corner of depth gauge with a flat file.
   - **NOTE:** The very top of the depth gauge should be flat with the front half rounded off with a flat file.

If you require further assistance or are unsure about performing this procedure, contact your authorized service dealer or call our customer assistance help line at 1-800-554-6723.

CHAIN REPLACEMENT

**WARNING:** Wear protective gloves when handling chain. The chain is sharp and can cut you even when it is not moving.

It is normal for a new chain to stretch during the first 15 minutes of operation. You should re-check your chain tension frequently and adjust the chain tension as required. See CHAIN TENSION section.

Replace the old chain when it becomes worn or damaged. Use only the Low-Kickback replacement chain specified in the repair parts list.

TO REPLACE CHAIN:
1. Disconnect spark plug.
2. Remove bar clamp nut.
3. Remove bar clamp.
4. Turn adjusting screw by hand counterclockwise until adjusting pin just touches the stop.
5. Slide guide bar behind sprocket until guide bar stops against sprocket.
6. Remove the old chain.
7. Carefully remove new chain from package. Hold chain with the drive links as shown.
8. Place chain over sprocket, fitting the drive links in the sprocket.
9. Fit bottom of drive links between the teeth in the sprocket in the nose of the guide bar.
10. Pull guide bar forward until chain is snug in guide bar groove. Ensure all drive links are in the bar groove.
11. Now, install bar clamp making sure the adjusting pin is positioned in the lower hole in the guide bar.
12. Install bar clamp nut and finger tighten only. Do not tighten any further at this point. Proceed to the CHAIN ADJUSTMENT section.

CHAIN ADJUSTMENT
See CHECK CHAIN TENSION in MAINTENANCE section.

REPLACING THE LINE
1. Press the tabs on the side of the trimmer head and remove cover and spool.
2. Remove any remaining line.
3. Clean dirt and debris from all parts. Replace spool if it is worn or damaged.
4. Replace with a pre-wound spool, or replace line using a 25 feet (8 meters) length of 0.080 inch (2 mm) diameter Poulan PRO brand line.

WARNING: Never use wire, rope, string, etc., which can break off and become a dangerous missile.
5. When installing new line on an existing spool, hold the spool as shown.
6. Bend the line at the midpoint and insert the bend into the slot in the center rim of the spool. Ensure line snaps into position in the slot.
7. With your finger between the lines, wrap the lines evenly and firmly around the spool in a clockwise direction.

8. Position the lines in the guide slots.

9. Place the spool in the cover as shown below.

10. Insert the ends of the lines through exit holes in the sides of the cover.

11. Reinstall the spool and cover onto the trimmer head. Push until cover snaps into place.

REPLACING THE TRIMMER HEAD

1. Hold the dust cup with a wrench to keep the shaft from turning while removing and installing trimmer head.

2. Remove trimmer head by turning counterclockwise (looking from bottom of unit).

3. Thread replacement trimmer head onto the shaft by turning clockwise. Only tighten hand tight!
CARBURETOR IDLE SPEED ADJUSTMENT

**WARNING:** Keep others away when making idle speed adjustments. The chain will be moving during most of this procedure. Wear your protective equipment and observe all safety precautions. After making adjustments, the chain must not move at idle speed.

The carburetor has been carefully set at the factory. Adjustment to the idle speed may be necessary if you notice any of the following conditions:

- Engine will not idle when the throttle is released.
- The chain moves at idle.

Make adjustments with the unit supported so the pruner is off the ground and the chain will not make contact with any object. Hold the unit by hand while running and making adjustments. Keep all parts of your body away from the chain and muffler.

**To adjust idle speed:**

Allow engine to idle. Adjust idle speed until engine runs without chain moving (idle too fast) or stalling (idle speed too slow).

- Turn idle speed screw clockwise to increase engine speed if engine stalls or dies.
- Turn idle speed screw counterclockwise to decrease engine speed if chain moves at idle.

**WARNING:** Recheck the idle speed after each adjustment. The chain must not move at idle speed to avoid serious injury to the operator or others.

If you require further assistance or are unsure about performing this procedure, contact your authorized service dealer or call 1-800-554-6723.

STORAGE

**WARNING:** Perform the following steps after each use:

- Allow engine to cool before storing or transporting.
- Store unit and fuel in a well ventilated area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.
- Store unit with all guards in place. Position unit so that any sharp object cannot accidentally cause injury.
- Store unit and fuel well out of the reach of children.

**SEASONAL STORAGE**

Prepare unit for storage at end of season or if it will not be used for 30 days or more. If your unit is to be stored for a period of time:

- Clean the entire unit before lengthy storage.
- Store in a clean dry area.
- Lightly oil external metal surfaces.

**FUEL SYSTEM**

Under FUELING ENGINE in the OPERATION section of this manual, see message labeled IMPORTANT regarding the use of gasoline in your engine.

Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to the gasoline in the fuel tank or fuel storage container. Follow the mix instructions found on stabilizer container. Run engine at least 5 minutes after adding stabilizer.

**HELPFUL TIP**

During storage of your gas/oil mixture, the oil will separate from the gas. We recommend that you shake the gas can weekly to insure proper blending of the gas and oil.
ENGINE
- Remove spark plug and pour 1 teaspoon of 40:1, 2-cycle engine oil (air cooled) through the spark plug opening. Slowly pull the starter rope 8 to 10 times to distribute oil.
- Replace spark plug with new one of recommended type and heat range.
- Clean air filter.
- Check entire unit for loose screws, nuts, and bolts. Replace any damaged, broken, or worn parts.
- At the beginning of the next season, use only fresh fuel having the proper gasoline to oil ratio.

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

TROUBLESHOOTING TABLE

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine will not start.</td>
<td>1. Engine flooded. 2. Fuel tank empty. 3. Spark plug not firing. 4. Fuel not reaching carburetor. 5. Carburetor requires adjustment.</td>
<td>1. See “Starting a Flooded Engine” in Operation Section. 2. Fill tank with correct fuel mixture. 3. Install new spark plug. 4. Check for dirty fuel filter; replace. Check for kinked or split fuel line; repair or replace. 5. Contact an authorized service dealer.</td>
</tr>
<tr>
<td>Engine will not idle properly.</td>
<td>1. Idle speed set too high or too low. 2. Crankshaft seals worn. 3. Compression low.</td>
<td>1. See “Carburetor Idle Speed Adjustment” in Service and Adjustments Section. 2. Contact an authorized service dealer. 3. Contact an authorized service dealer.</td>
</tr>
<tr>
<td>Engine will not accelerate, lacks power, or dies under a load.</td>
<td>1. Air filter dirty. 2. Spark plug fouled. 3. Carburetor requires adjustment. 4. Carbon build-up on muffler outlet screen. 5. Compression low.</td>
<td>1. Clean or replace air filter. 2. Clean or replace plug and regap. 3. Contact an authorized service dealer. 4. Contact an authorized service dealer. 5. Contact an authorized service dealer.</td>
</tr>
<tr>
<td>Engine smokes excessively.</td>
<td>1. Choke partially on. 2. Fuel mixture incorrect. 3. Air filter dirty. 4. Carburetor requires adjustment.</td>
<td>1. Adjust choke. 2. Empty fuel tank and refill with correct fuel mixture. 3. Clean or replace air filter. 4. Contact an authorized service dealer.</td>
</tr>
<tr>
<td>Chain moves at idle speed.</td>
<td>1. Idle speed requires adjustment. 2. Clutch requires repair.</td>
<td>1. See “Carburetor Adjustment” in Service and Adjustments Section. 2. Contact an authorized service dealer.</td>
</tr>
</tbody>
</table>

WARNING: Always stop unit and disconnect spark plug before performing all of the recommended remedies below except remedies that require operation of the unit.
LIMITED WARRANTY

Poulan PRO, a division of Husqvarna Consumer Outdoor Products N.A., Inc., warrants to the original consumer purchaser that each new Poulan PRO brand gasoline tool or attachment is free from defects in material and workmanship and agrees to repair or replace under this warranty any defective gasoline product or attachment as follows from the original date of purchase.

2 YEARS - Parts and Labor, when used for household purposes.
90 DAYS - Parts and Labor, when used for commercial, professional, or income producing purposes.
30 DAYS - Parts and Labor, if used for rental purposes.

This warranty is not transferable and does not cover damage or liability caused by improper handling, improper maintenance or alteration, or the use of accessories and/or attachments not specifically recommended by Poulan PRO for this tool. This warranty does not cover tune-up, spark plugs, filters, starter ropes, cutting line, or rotating head parts that will wear and require replacement with reasonable use during the warranty period. This warranty does not cover transportation costs.

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:
Poulan PRO, a division of Husqvarna Consumer Outdoor Products N.A., Inc.
7349 Statesville Road
Charlotte, NC 28269
1-800-554-6723

In Canada, contact:
Poulan PRO
850 Matheson Blvd. West
Mississauga, Ontario L5V0B4
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 GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

NO CLAIMS FOR CONSEQUENTIAL OR OTHER DAMAGES WILL BE ALLOWED, AND THERE ARE NO OTHER EXPRESS WARRANTIES EXCEPT THOSE EXPRESSLY STIPULATED HEREIN.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSION MAY NOT APPLY TO YOU.

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

The policy of Poulan PRO is to continuously improve its products. Therefore, Poulan PRO reserves the right to change, modify, or discontinue models, designs, specifications, and accessories of all products at any time without notice or obligation to any purchaser.

U.S. EPA/CALIFORNIA/ENVIRONMENT CANADA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS: The U.S. Environmental Protection Agency, California Air Resources Board, Environment Canada and Poulan PRO are pleased to explain the emissions control system warranty on your year 2009 and later small off-road engine. In California, all small off-road engines must be designed, built, and equipped to meet the State’s stringent anti-smog standards. Poulan PRO must warrant the emission control system on your small off-road engine for the periods of time listed below provided there has been no abuse, neglect, or improper maintenance of your small off-road engine. Your emission control system includes parts such as the carburetor, the ignition system and the fuel tank. Where a warrantable condition exists, Poulan PRO will repair your small off-road engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor. MANUFACTURER’S WARRANTY COVERAGE: If any emissions related part on your engine (as listed under Emissions Control Warranty Parts List) is defective or a defect in the materials or workmanship of the engine causes the failure of such an emission related part, the part will be repaired or replaced by Poulan PRO. OWNER’S WARRANTY RESPONSIBILITIES: As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your instruction manual. Poulan PRO recommends that you retain all receipts covering maintenance on your small off-road engine, but Poulan PRO cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the small off-road engine owner, you should be aware that Poulan PRO may deny you warranty coverage if your small off-road engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications, or the use of parts not made or approved by the original equipment manufacturer. You are responsible for presenting your
small off-road engine to an Poulan PRO authorized repair center as soon as a problem exists. Warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center, call Poulan PRO at 1-800-554-6723, or send e-mail correspondence to emission.warranty@HCOP-emission.com.

WARRANTY COMMENCEMENT DATE: The warranty period begins on the date the small off-road engine is purchased.

LENGTH OF COVERAGE: This warranty shall be for a period of two years from the initial date of purchase.

WHAT IS COVERED: REPAIR OR REPLACEMENT OF PARTS. Repair or replacement of any warranted part will be performed at no charge to the owner at an approved Poulan PRO servicing center. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center, call Poulan PRO at 1-800-554-6723, or send e-mail correspondence to emission.warranty@HCOP-emission.com.

WARRANTY PERIOD: Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for 2 years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part. DIAGNOSIS: The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective if the diagnostic work is performed at an approved Poulan PRO servicing center.

CONSEQUENTIAL DAMAGES: Poulan PRO may be liable for damages to other engine components caused by the failure of a warranted part still under warranty. WHAT IS NOT COVERED: All failures caused by abuse, neglect, or improper maintenance are not covered.

ADD-ON OR MODIFIED PARTS: The use of add-on or modified parts can be grounds for disallowing a warranty claim. Poulan PRO is not liable to cover failures of warranted parts caused by the use of add-on or modified parts.

HOW TO FILE A CLAIM: If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized service center, call Poulan PRO at 1-800-554-6723, or send e-mail correspondence to emission.warranty@HCOP-emission.com.

WHERE TO GET WARRANTY SERVICE: Warranty services or repairs shall be provided at all Poulan PRO service centers. Call: 1-800-554-6723 or send e-mail correspondence to emission.warranty@HCOP-emission.com.

MAINTE-NANCE, REPLACEMENT AND REPAIR OF EMISSION RELATED PARTS: Any Poulan PRO approved replacement part used in the performance of any warranty maintenance or repair on emission related parts will be provided without charge to the owner if the part is under warranty.

EMISSION CONTROL WARRANTY PARTS LIST: Carburetor, air filter (covered up to maintenance schedule), ignition system: spark plug (covered up to maintenance schedule), ignition module, muffler including catalyst (if equipped), fuel tank.

MAINTENANCE STATEMENT: The owner is responsible for the performance of all required maintenance as defined in the instruction manual.