Operator's Manual

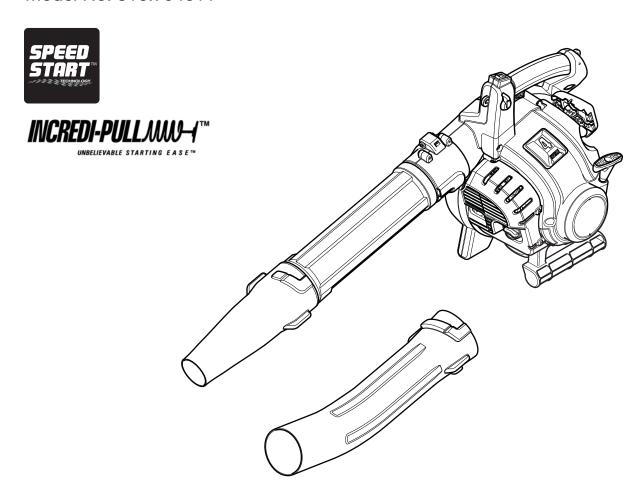
CRAFTZMAN®

4-Cycle

Electric Start Capable

HANDHELD BLOWER

Model No. 316,794611



CAUTION: Before using this product, read this manual and follow all its Safety Rules and Operating Instructions.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE
- ESPAÑOL, P. 21

Sears Brands Management Corporation, Hoffman Estates, IL 60179 U.S.A.

Visit our website: www.craftsman.com

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All information, illustrations and specifications in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

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SAFETY

The purpose of safety symbols is to attract your attention to possible dangers. The safety symbols, and their explanations, deserve your careful attention and understanding. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention measures.

SYMBOL MEANING



DANGER: Signals an EXTREME hazard. Failure to obey a safety **DANGER** symbol **WILL** result in serious injury or death to yourself or to others.



WARNING: Signals a SERIOUS hazard. Failure to obey a safety **WARNING** symbol **CAN** result in serious injury to yourself or to others.



CAUTION: Signals a MODERATE hazard. Failure to obey a safety **CAUTION** symbol **MAY** result in property damage or injury to yourself or to others.

NOTE: Advises you of information or instructions vital to the operation or maintenance of the equipment.

SPARK ARRESTOR NOTE

NOTE: For users on U.S. Forest Land and in the states of California, Maine, Oregon and Washington. All U.S. Forest Land and the state of California (Public Resources Codes 4442 and 4443), Oregon and Washington require, by law that certain internal combustion engines operated on forest brush and/or grass-covered areas be equipped with a spark arrestor, maintained in effective working order, or the engine be constructed, equipped and maintained for the prevention of fire. Check with your state or local authorities for regulations pertaining to these requirements. Failure to follow these requirements could subject you to liability or a fine. This unit is factory equipped with a spark arrestor. If it requires replacement, contact a Sears Parts & Repair Service Center to install the appropriate muffler assembly.



CALIFORNIA PROPOSITION 65

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Read the operator's manual and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders.

IMPORTANT SAFETY INSTRUCTIONS •

READ ALL INSTRUCTIONS BEFORE OPERATING



WARNING: When using the unit, all safety instructions must be followed. Please read these instructions before operating the unit in order to ensure the safety of the operator and any bystanders. Please keep these instructions for later use.

- Read the instructions carefully. Be familiar with the controls and proper use of the unit.
- Do not operate this unit when tired, ill or under the influence of alcohol, drugs or medication.
- Never allow children to operate the unit. Teens must be trained, accompanied and supervised by an adult. Never allow adults to operate the unit without proper instruction.
- All guards and safety attachments must be installed properly before operating the unit.
- Inspect the unit before use. Replace damaged parts. Check for fuel leaks. Make sure all fasteners are in place and secure.
 Replace parts that are cracked, chipped, or damaged in any way. Do not operate the unit with loose or damaged parts.
- · Be aware of risk of injury to the head, hands and feet.
- Carefully inspect the area before starting the unit. Remove rocks, broken glass, nails, wire, string and other objects that may be thrown or become entangled with the unit.
- Clear the area of children, bystanders and pets; keep them outside a 50-foot (15 m) radius, at a minimum. Even then, they are still at risk from thrown objects. Encourage bystanders to wear eye protection. If you are approached, stop the unit immediately.
- Squeeze the throttle control and check that it returns automatically to the idle position. Make all adjustments or repairs before using the unit.
- Do not change the engine governor settings or overspeed the engine.
- This unit is intended for occasional, household use only.

SAFETY WARNINGS FOR GAS UNITS



WARNING: Gasoline is highly flammable and its vapors can explode if ignited. Take the following precautions:

- Store fuel only in containers specifically designed and approved for the storage of such materials.
- Always stop the engine and allow it to cool before filling the tank. Never remove the fuel tank cap or add fuel when the engine is hot. Always loosen the fuel tank cap slowly to relieve any pressure in the tank before fueling.
- Always add fuel in a clean, well-ventilated outdoor area where there are no sparks or flames. DO NOT smoke.
- Never operate the unit without the fuel cap securely in place.
- Avoid creating a source of ignition for spilled fuel. Wipe up any spilled fuel from the unit immediately, before starting the unit. Move the unit at least 30 ft. (9.1 m) from the fueling source and site before starting the engine. DO NOT smoke.
- Never start or run the unit inside a closed room or building.
 Breathing exhaust fumes can kill. Operate this unit only in a well ventilated outdoor area.

WHILE OPERATING

- Wear safety glasses or goggles that meet current ANSI / ISEA Z87.1 standards and are marked as such. Wear ear/hearing protection when operating this unit. Wear a face mask or dust mask if the operation is dusty.
- Wear heavy long pants, boots, gloves and a long sleeve shirt. Do not wear loose clothing, jewelry, short pants, sandals or go barefoot. Secure hair above shoulder level.
- Use the unit only in daylight or good artificial light.
- Avoid accidental starting. Be in the starting position whenever pulling the starter rope. The operator and unit must be in a stable position while starting. Refer to Starting and Stopping.
- Use the right tool. Only use this tool for its intended purpose.
- Always hold the unit with a firm grip when operating.
- Do not overreach. Always keep proper footing and balance. Take extra care when working on stairs, steep slopes or inclines. To avoid serious injury, do not operate the unit while on a ladder or a roof.
- Keep hands, face, and feet away from all moving parts. Do not touch or try to stop moving parts.
- Do not touch the engine or muffler. These parts get extremely hot from operation, even after the unit is turned off.
- Do not operate the unit faster than the speed needed to do the job. Do not run the unit at high speed when not in use.
- Do not force the unit. It will do a better, safer job when used at the intended rate.
- Always stop the unit when operation is delayed or when walking from one location to another.
- Before setting the unit down, always make sure the engine is off and all moving parts have stopped.
- If you strike or become entangled with a foreign object, stop the
 unit immediately and check for damage. Do not operate the unit
 before repairing damage. Do not operate the unit with loose or
 damaged parts.
- Turn the engine off and disconnect the spark plug for maintenance or repair.
- Use only original equipment manufacturer (OEM) replacement parts and accessories for this unit. These are available from a Sears or other qualified service dealer. Use of any other parts or accessories could lead to serious injury to the user, or damage to the unit, and void the warranty.
- Keep the unit clean. Carefully remove vegetation and other debris that could block moving parts.
- To reduce fire hazard, replace a faulty muffler and spark arrestor.
 Keep the engine and muffler free from grass, leaves, excessive grease or carbon build up.
- If the unit starts to vibrate abnormally, stop the unit immediately.
 Inspect the unit for the cause of the vibration. Vibration is generally an indicator of trouble.

BLOWER SAFETY

- Do not insert anything into the air openings, blower tube or nozzle. Do not operate the unit if any of the air openings or tubes are blocked. Keep the air openings free from dust, lint, hair and anything else that may reduce airflow.
- Do not operate the unit without the blower tube securely attached.
- Do not use the unit to spray liquids, especially flammable or combustible liquids, such as gasoline. Do not use the unit in areas where such liquids are present.
- Do not use the unit for spreading chemicals, fertilizer or any other substance that may contain toxic materials.
- Do not set the unit down on any surface while the unit is running. Debris can be picked up by the air intake and thrown out the discharge opening, resulting in damage to the unit or property or causing serious injury to bystanders or the operator.
- During operation, never point the unit in the direction of people, animals, windows or automobiles. Always direct blowing debris away from people, animals, windows or automobiles.
- Use extra caution when blowing debris near solid objects, such as trees, walls, fences, etc. When possible, blow away from such objects, not toward them.
- Take care when working near valuable plants. The force of the blown air could damage tender plants.
- Never attempt to clear a clogged air intake opening while the unit is running.
- Keep hair, fingers and all other body parts away from moving parts and openings.

OTHER SAFETY WARNINGS

- · Maintain the unit with care.
- All service, other than the maintenance procedures described in this manual, should be performed by a Sears or other qualified service dealer.
- Never remove, modify or make inoperative any safety device furnished with the unit.
- Before inspecting, servicing, cleaning, storing, transporting or replacing any parts on the unit:
 - 1. Stop the unit.
 - 2. Make sure all moving parts have stopped.
 - 3. Allow the unit to cool.
 - 4. Disconnect the spark plug wire.
- Secure the unit while transporting.
- Never store the unit with fuel in the tank, inside a building where fumes may reach an open flame (pilot lights, etc.) or sparks (switches, electrical motors, etc.).
- Store the unit in a dry place, secured or at a height to prevent unauthorized use or damage. Keep the unit out of the reach of children.
- Never douse or squirt the unit with water or any other liquid.
 Keep handles dry and clean (free from debris, oil and grease).
 Clean the unit after each use. Refer to Cleaning and Storage. Do not use solvents or strong detergents.
- Keep these instructions. Refer to them often and use them to instruct other users. If you loan this unit to others, also loan them these instructions.

SAVE THESE INSTRUCTIONS

SAFETY & INTERNATIONAL SYMBOLS •

This operator's manual describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.

SYMBOL MEANING



SAFETY ALERT SYMBOL

Indicates danger, warning or caution. May be used in conjunction with other symbols or pictographs.



READ OPERATOR'S MANUAL

WARNING: Read the operator's manual(s) and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders.



• WEAR EYE AND HEARING PROTECTION

WARNING: Thrown objects and loud noise can cause severe eye injury and hearing loss. Wear eye protection meeting current ANSI / ISEA Z87.1 standards and ear protection when operating this unit. Use a full face shield when needed.



UNLEADED FUEL

Always use clean, fresh unleaded fuel.



OIL

Refer to operator's manual for the proper type of oil.



DO NOT USE E85 FUEL IN THIS UNIT

WARNING: It has been proven that fuel containing greater than 10% ethanol will likely damage this engine and void the warranty.

SYMBOL MEANING



ON/OFF STOP CONTROL

ON / START / RUN



ON/OFF STOP CONTROL

OFF or STOP



PRIMER BULB

Push primer bulb, fully and slowly, 10 times.

14 14 14

CHOKE CONTROL

- 1. FULL choke position
- 2. PARTIAL choke position
- 3. RUN choke position



THROWN OBJECTS CAN CAUSE SEVERE INJURY

WARNING: Small objects can be propelled at high speed, causing injury.



KEEP BYSTANDERS AWAY

WARNING: Keep all bystanders, especially children and pets, at least 50 feet (15 m) from the operating area.



HOT SURFACE

WARNING: Do not touch a hot muffler or cylinder. You may get burned. These parts get extremely hot from operation. When turned off, they remain hot for a short time.



BLOWERS – ROTATING IMPELLER BLADES CAN CAUSE SEVERE INJURY

WARNING: Stop the unit and allow the impeller to stop before changing tubes, cleaning or performing any maintenance. Keep hands and feet away from moving parts.

WARRANTY

CRAFTSMAN LIMITED WARRANTY

FOR TWO YEARS from the date of sale, this product is warranted against defects in material or workmanship. WITH PROOF OF SALE, a defective product will receive free repair or replacement at option of seller.

For warranty coverage details to obtain free repair or replacement, visit the web page: www.craftsman.com/warranty

This warranty covers ONLY defects in material and workmanship. Warranty coverage does NOT include:

- Expendable items that can wear out from normal use within the warranty period, such as spark plugs or filters.
- Product damage resulting from user attempts at product modification or repair or caused by product accessories.
- Repairs necessary because of accident or failure to operate or maintain the product according to all supplied instructions.
- Preventive maintenance, or repairs necessary due to improper fuel mixture, contaminated or stale fuel.

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

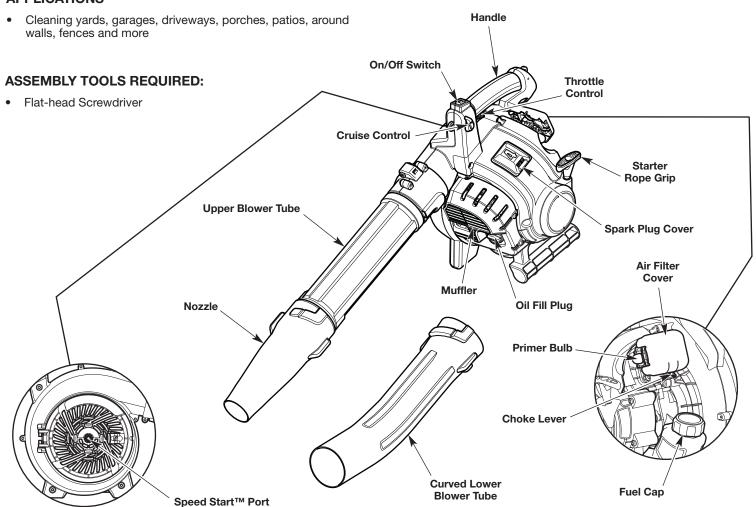
This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears Brands Management Corporation, Hoffman Estates, IL 60179

To order parts or schedule service for this product, call 1-888-331-4569.

KNOW YOUR UNIT

APPLICATIONS



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Engine Type	Air-Cooled, 4-Cycle
Displacement	25 cc (1.52 cu. in.)
Spark Plug Gap	0.025 in. (0.635 mm)
Spark Plug	Champion® RDZ4H or equivalent plug
Lubrication	SAE 30 Oil
Crankcase Oil Capacity	2.37 oz. (70 ml)
Fuel Tank Capacity	
Approximate Unit Weight (No fuel)	10.5 - 11.5 lbs. (4.8 - 5.2 kg)
Air Volume** (measured at: outlet / upper tube / lower tube / nozzle)	450 / 430 / 430 / 295 cfm (12 / 12 / 12 / 8 m³/min)
Air Speed (Peak)** (measured at: outlet / upper tube / lower tube / nozzle)	0 / 125 / 120 / 205 mph (190 / 200 / 190 / 330 km/h)
Air Speed (Average)** (measured at: outlet / upper tube / lower tube / nozzle) 100	0 / 105 / 100 / 170 mph (160 / 165 / 160 / 270 km/h)

^{*} All specifications are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

^{**} Measured per ANSI B175.2.

ASSEMBLY



WARNING: To avoid serious personal injury and damage to the unit, shut the unit off before removing or installing blower tubes or nozzles.



WARNING: To prevent serious personal injury, never operate the unit without the upper blower tube firmly installed.

INSTALLING THE BLOWER TUBE(S) AND NOZZLE

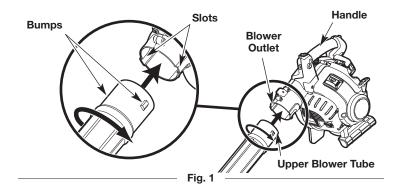
Always install the upper blower tube. The nozzle and curved lower blower tube are optional.

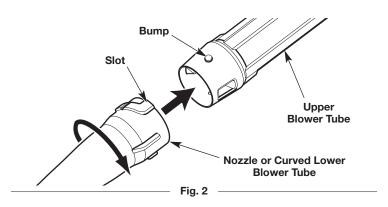
Installing the Upper Blower Tube

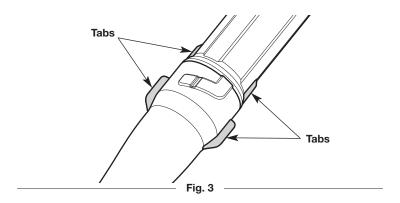
- 1. Align the bumps on the upper end of the upper blower tube with the slots on the blower outlet (Fig. 1).
- 2. Insert the upper blower tube into the blower outlet (Fig. 1).
- 3. While holding the handle, twist the upper blower tube clockwise until it locks into place (Fig. 1).

Installing the Nozzle or Curved Lower Blower Tube

- 1. Align the slots on the nozzle or curved lower blower tube with the bumps on the lower end of the upper blower tube (Fig. 2).
- 2. Install the nozzle or curved lower blower tube onto the upper blower tube (Fig. 2).
- 3. While holding the upper blower tube, twist the nozzle or curved lower blower tube clockwise until it locks into place (Fig. 2). The tabs on the upper blower tube should align with the tabs on the nozzle (Fig. 3).







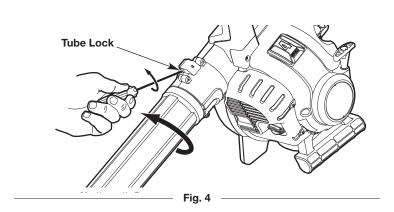
REMOVING THE BLOWER TUBE(S) AND NOZZLE

Removing the Upper Blower Tube

- 1. Insert a flat-head screwdriver into the tube lock. Turn the screwdriver counterclockwise 1/4 turn and hold it in place (Fig. 4).
- 2. Twist the upper blower tube counterclockwise until it unlocks from the blower outlet (Fig. 4).
- 3. Remove the upper blower tube from the blower outlet.

Removing the Nozzle or Curved Lower Blower Tube

- While holding the upper blower tube, twist the nozzle or curved lower blower tube counterclockwise until it unlocks from the blower tube.
- Remove the nozzle or curved lower blower tube from the upper blower tube.



OIL AND FUEL

USING THE RIGHT OIL

Use a high-quality SAE 30 weight oil. **DO NOT** use dirty oil. Failure to use clean oil of the correct type can cause premature engine wear and failure.

ADDING OIL: INITIAL USE



WARNING: OVERFILLING THE CRANKCASE MAY CAUSE SERIOUS PERSONAL INJURY. Check the oil level before each use. The importance of maintaining the proper oil level cannot be overemphasized. Change the oil according to the *Maintenance Schedule*.

NOTE: This unit was shipped without oil in the crankcase. Oil must be added before starting the unit.

NOTE: This unit comes with a 2.37 fluid oz. (70 ml) container of oil.

- 1. Set the unit on a flat, level surface.
- 2. Unscrew the oil fill plug (Fig. 5).
- Pour the entire container of oil into the oil fill hole (Fig. 5). DO NOT overfill. Refer to Checking the Oil Level.

NOTE: Never add oil to the fuel tank. This unit has a four-cycle engine. **DO NOT** mix oil with gasoline.

- 4. Wipe up any oil that may have spilled.
- 5. Reinstall the oil fill plug.

NOTE: Make sure the O-ring is in place on the oil fill plug (Fig. 5).



The use of old fuel is the most common cause of performance problems. Use only fresh, clean unleaded gasoline.

NOTE: This unit has a four-cycle engine. DO NOT mix oil with gasoline.

Definition of Blended Fuels

Today's fuels are often a blend of gasoline and oxygenates such as ethanol, methanol or MTBE (ether). Alcohol-blended fuel absorbs water. As little as 1% water in the fuel can make fuel and oil separate, forming acids when stored. ALWAYS use fresh fuel (less than 30 days old).

NOTE: Dispose of old fuel according to federal, state and local regulations.

Using Blended Fuels

If using a blended fuel:

- Always use fresh unleaded gasoline
- Use the fuel additive STA-BIL® or an equivalent

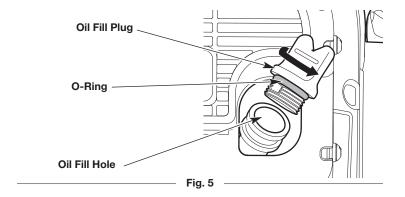


WARNING: DO NOT USE E85 FUEL IN THIS UNIT.

It has been proven that fuel containing greater than 10% ethanol will likely damage this engine and void the warranty.

Using Fuel Additives

Use a fuel additive, such as STA-BIL Fuel Stabilizer or an equivalent, to inhibit corrosion and minimize gum deposits. Add 0.8 oz. (23 ml) of fuel additive per gallon of fuel, according to the instructions on the container. NEVER add fuel additives directly to the unit's fuel tank.



FUELING THE UNIT



WARNING: Gasoline is extremely flammable. Ignited vapors may explode. Always stop the engine and allow it to cool before filling the fuel tank. Do not smoke while filling the tank. Keep sparks and open flames at a distance from the area.



WARNING: Remove the fuel cap slowly to avoid injury from fuel spray. Never operate the unit without the fuel cap securely in place.



WARNING: Add fuel in a clean, well ventilated outdoor area. Wipe up any spilled fuel immediately. Avoid creating a source of ignition for spilled fuel. Do not start the engine until fuel vapors dissipate.

- 1. Position the unit with the fuel cap facing up.
- 2. Slowly remove the fuel cap.
- Place the fuel container spout into the fuel tank fill hole and fill the tank.

NOTE: Do not overfill the tank.

- 4. Wipe up any fuel that may have spilled.
- 5. Reinstall the fuel cap.
- 6. Move the unit at least 30 ft. (9.1 m) from the fuel container and the fueling site before starting the engine.

STARTING AND STOPPING



WARNING: Operate this unit only in a well-ventilated outdoor area. Carbon monoxide exhaust fumes can be lethal in a confined area.



WARNING: Avoid accidentally starting the unit. To avoid serious injury, the operator and the unit must be in a stable position when pulling the starter rope (Fig. 8).



WARNING: When starting the unit, make sure it is not directed toward people, animals, windows, automobiles or loose debris.

STARTING INSTRUCTIONS

NOTE: This unit uses the **INCREDI-PULL™** starting system, which significantly reduces the effort required to start the engine.

NOTE: This unit includes a cruise control, which allows the operator to maintain the desired engine speed without having to squeeze the throttle control.

- 1. Check the oil level. Refer to Checking the Oil Level.
- 2. Fill the fuel tank. Refer to Fueling the Unit.

NOTE: There is no need to turn the unit on. The On/Off switch is in the ON (I) position at all times (Fig. 6).

- 3. Slowly press and release the primer bulb **10 times** (Fig. 7).
- 4. Move the cruise control to the LO (slow) position (Fig. 6).

NOTE: Keep the cruise control in the LO (slow) position and DO NOT squeeze the throttle control until step 10 (Fig. 6).

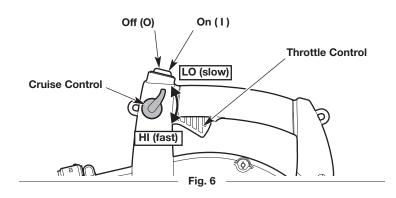
- 5. Move the choke lever to Position 1 (Fig. 7).
- DO NOT squeeze the throttle control. Crouch in the starting position (Fig. 8).
- DO NOT squeeze the throttle control. Pull the starter rope with a controlled and steady motion 5 times (Fig. 8).
- DO NOT squeeze the throttle control. Move the choke lever to Position 2 (Fig. 7).
- 9. **DO NOT** squeeze the throttle control. Pull the starter rope with a controlled and steady motion **3 to 5 times** to start the engine.
- 10. Squeeze and hold the throttle control or move the cruise control to the HI (fast) position (Fig. 6). Allow the engine to warm up for 30 to 60 seconds.
- 11. Continue to squeeze the throttle control or keep the cruise control in the HI (fast) position (Fig. 6). Move the choke lever to Position 3 (Fig. 7) and continue warming the engine for an additional 60 seconds. The unit may be used during this time.

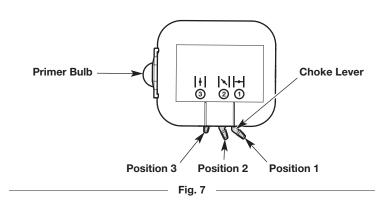
NOTE: Once the engine is properly warmed, the cruise control may be adjusted and the throttle control can be used normally.

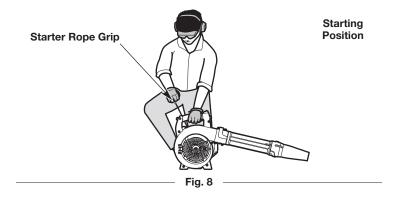
- **IF...** the engine does not start, begin the starting procedure with step 3.
- IF... the engine fails to start after a few attempts, move the choke lever to Position 3. Squeeze and hold the throttle control or move the cruise control to the HI (fast) position. Pull the starter rope with a controlled and steady motion 3 to 8 times. The engine should start. If it does not, repeat this instruction.

IF THE UNIT WAS RUN FOR 10-15 MINUTES AND THE ENGINE IS HOT... perform steps 3 - 9 to restart the engine. Squeeze and hold the throttle control or move the cruise control to the HI (fast) position. Run the unit for 2-5 minutes, or as needed. The unit may be used during this time. Then move the choke lever to Position 3.

If the engine speed fluctuates in **Position 3**, squeeze and hold the throttle control or move the cruise control to the **HI (fast)** position, move the choke lever to **Position 2**, and run the unit for **2-5** minutes, or as needed. **The unit may be used during this time.** Then move the choke lever to **Position 3**.







STOPPING INSTRUCTIONS

- Release the throttle control, or move the cruise control to the LO (slow) position, and allow the engine to idle.
- 2. Press and hold the On/Off switch in the **OFF (O)** position until the engine comes to a complete stop (Fig. 6).

USING THE SPEED START™ ACCESSORY

This unit can be started with an optional Speed Start[™] accessory (items sold separately). Please refer to the Speed Start[™] accessory operator's manual for the proper use of this feature.

Please contact your local Craftsman retailer, call **1-888-331-4569** or visit **www.craftsman.com** for more information.

Description
n Power Start
ower Bit Start
s Power Start

STARTING INSTRUCTIONS

NOTE: This unit includes a cruise control, which allows the operator to maintain the desired engine speed without having to squeeze the throttle control.

- 1. Check the oil level. Refer to Checking the Oil Level.
- 2. Fill the fuel tank. Refer to Fueling the Unit.

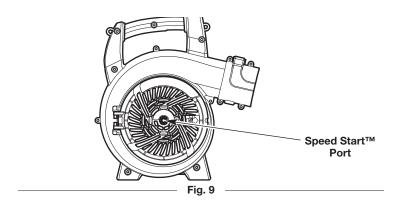
NOTE: There is no need to turn the unit on. The On/Off switch is in the ON (I) position at all times (Fig. 6).

- 3. Slowly press and release the primer bulb 10 times (Fig. 7).
- 4. Move the cruise control to the LO (slow) position (Fig. 6).

NOTE: Keep the cruise control in the LO (slow) position and DO NOT squeeze the throttle control until step 12 (Fig. 6).

- 5. Move the choke lever to **Position 1** (Fig. 7).
- 6. **DO NOT** squeeze the throttle control. Crouch in the starting position (Fig. 8).
- DO NOT squeeze the throttle control. Insert the Speed Start[™] accessory into the Speed Start[™] port (Fig. 9). Refer to the Operation section of the Speed Start[™] accessory operator's manual.
- DO NOT squeeze the throttle control. Run the Speed Start™ accessory for 2 seconds.
- DO NOT squeeze the throttle control. Move the choke lever to Position 2 (Fig. 7).
- DO NOT squeeze the throttle control. Run the Speed Start™
 accessory in intervals no longer than 2 seconds each until the
 unit starts.
- DO NOT squeeze the throttle control. Remove the Speed Start™ accessory from the unit.
- 12. Squeeze and hold the throttle control or move the cruise control to the **HI (fast)** position (Fig. 6). Allow the engine to warm up for 30 to 60 seconds.
- 13. Continue to squeeze the throttle control or keep the cruise control in the HI (fast) position (Fig. 6). Move the choke lever to Position 3 (Fig. 7) and continue warming the engine for an additional 60 seconds. The unit may be used during this time.
- **NOTE:** Once the engine is properly warmed, the cruise control may be adjusted and the throttle control can be used normally.
- **IF...** the engine does not start, begin the starting procedure with step 3.
- IF... the engine fails to start after a few attempts, move the choke lever to Position 3. Squeeze and hold the throttle control or move the cruise control to the HI (fast) position. Run the Speed Start™ accessory in intervals no longer than 2 seconds each until the unit starts. The engine should start. If it does not, repeat this instruction.
- IF THE UNIT WAS RUN FOR 10-15 MINUTES AND THE ENGINE IS HOT... perform steps 3 10 to restart the engine. Squeeze and hold the throttle control or move the cruise control to the HI (fast) position. Run the unit for 2-5 minutes, or as needed. The unit may be used during this time. Then move the choke lever to Position 3.

If the engine speed fluctuates in **Position 3**, squeeze and hold the throttle control or move the cruise control to the **HI (fast)** position, move the choke lever to **Position 2**, and run the unit for **2-5** minutes, or as needed. **The unit may be used during this time.** Then move the choke lever to **Position 3**.



STOPPING INSTRUCTIONS

- Release the throttle control, or move the cruise control to the LO (slow) position, and allow the engine to idle.
- 2. Press and hold the On/Off switch in the OFF (O) position until the engine comes to a complete stop (Fig. 6).

OPERATION



WARNING: To prevent serious personal injury, never operate the unit without the upper blower tube firmly installed.



WARNING: Always wear eye, hearing, hand, foot and body protection to reduce the risk of injury when operating this unit. Wear a face mask or dust mask if the operation is dusty.

HOLDING THE UNIT

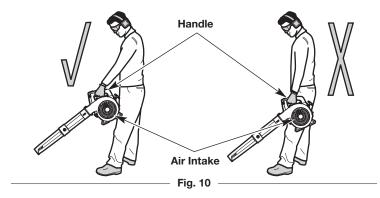
- Stand in the operating position (Fig. 10). Stand up straight. Do not bend over.
- · Keep feet apart and firmly planted.
- Hold the unit in front of, and away from, your body (Fig. 10).



WARNING: To prevent serious personal injury or damage to the unit, **DO NOT** hold the unit at your side (Fig. 10). The engine may be extremely hot. **DO NOT** block the air intake.

TIPS FOR BEST RESULTS

- Conserve water by using the blower instead of a hose to perform many outdoor cleaning actions.
- Operate the unit only at reasonable hours, not early in the morning or late at night when people might be disturbed. Comply with times listed in local ordinances. Usual recommendations are 9:00 a.m. to 5:00 p.m., Monday through Saturday.
- To reduce noise levels, operate the unit at the lowest speed needed to do the job. Limit the number of pieces of power equipment used at any one time.
- Use rakes or brooms to loosen debris before operation.
- In dusty conditions, slightly dampen surfaces.
- Use the cruise control to make continuous operation easier (Fig. 6).
- Watch out for children, pets, open windows and freshly washed cars. Blow debris safely away. Never direct the unit toward anyone while the unit is in operation.
- Sweep the unit from side to side with the blower tube several inches above the ground. Slowly advance, keeping the accumulated debris in front of the operator.
- Use the nozzle to concentrate the air stream closer to the ground.
- Clean up after operation. Dispose of debris appropriately.



MAINTENANCE



WARNING: To avoid serious personal injury, always stop the engine and allow it to cool before cleaning or maintaining the unit. Never perform cleaning or maintenance while the unit is running. Disconnect the spark plug wire to prevent the unit from starting accidentally.



WARNING: Wear protective clothing and observe all safety instructions to prevent serious personal injury.

MAINTENANCE SCHEDULE

Perform these required maintenance procedures at the frequency stated in the table. These procedures should also be a part of any seasonal tune-up.

NOTE: Some maintenance procedures may require special tools or skills. If unsure about these procedures, take the unit to a Sears or other qualified service dealer. Call **1-888-331-4569** for more information.

NOTE: Maintenance, replacement, or repair of the emission control devices and system may be performed by a Sears or other qualified service dealer. Call **1-888-331-4569** for more information.

NOTE: Please read the California/EPA statement that came with the unit for a complete listing of terms and coverage for the emissions control devices, such as the spark arrestor, muffler, carburetor, etc.

FREQUENCY	MAINTENANCE REQUIRED			
Every 10 hours	Clean and re-oil the air filter. Refer to Maintaining the Air Filter.			
After the first 10 hours and at 38 hours	 Change the oil. Refer to Changing the Oil. Have the rocker arm clearance checked by a Sears or other qualified service dealer. Check the spark plug condition and gap. Refer to Maintaining the Spark Plug. 			

CHECKING THE OIL LEVEL



WARNING: OVERFILLING THE CRANKCASE MAY CAUSE SERIOUS PERSONAL INJURY. Check the oil level before each use. The importance of maintaining the proper oil level cannot be overemphasized.

- 1. Stop the engine and allow it to cool.
- Set the unit on a flat, level surface, such as a workbench or table.

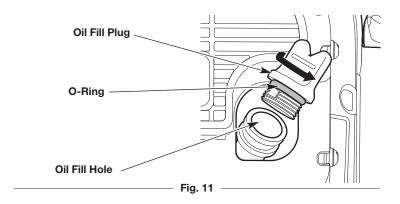
NOTE: Failure to keep the engine level may result in oil overfill.

- 3. Clean the area around the oil fill plug (Fig. 11) to prevent debris from entering the oil fill hole.
- 4. Unscrew the oil fill plug.
- 5. Look into the oil fill hole; use a flashlight if necessary. **The oil level should just touch the bottom thread of the oil fill hole** (Fig. 12). If the oil level is too low, add oil to the oil fill hole until the oil level touches the bottom thread of the oil fill hole.

NOTE: DO NOT overfill the crankcase.

- 6. Wipe up any oil that may have spilled.
- 7. Reinstall the oil fill plug.

NOTE: Make sure the O-ring is in place on the oil fill plug (Fig. 11).



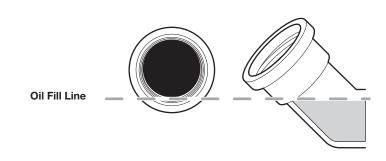


Fig. 12

CHANGING THE OIL

Change the oil while the engine is still warm. The oil will flow freely and carry away more impurities.

- Clean the area around the oil fill plug (Fig. 11) to prevent debris from entering the oil fill hole.
- 2. Unscrew the oil fill plug.
- 3. Tip the unit vertically to pour the oil out of the oil fill hole and into a container (Fig. 13). Allow ample time for complete drainage.

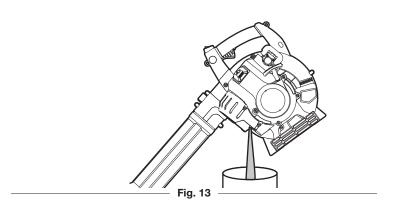
NOTE: Dispose of the old oil according to federal, state and local regulations.

- 4. Wipe up any oil that may have spilled.
- 5. Pour 2.37 fl.oz. (70 ml) of SAE 30 oil into the oil fill hole.

NOTE: DO NOT overfill. Refer to Checking the Oil Level.

- 6. Wipe up any oil that may have spilled.
- 7. Reinstall the oil fill plug.

NOTE: Make sure the O-ring is in place on the oil fill plug (Fig. 11).



MAINTAINING THE AIR FILTER

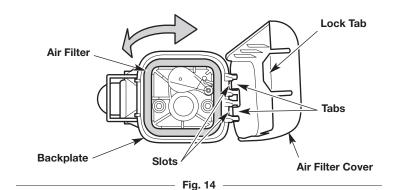
Failure to maintain the air filter can result in poor performance or can cause permanent damage to the engine. Engine failure due to improper air filter maintenance is not covered by the product warranty.

Cleaning the Air Filter

- 1. Open the air filter cover: press in the lock tab and swing the air filter cover to the right (Fig. 14).
- 2. Remove the air filter (Fig. 14).
- Wash the air filter in detergent and water. Rinse the air filter thoroughly and allow it to dry.
- 4. Lightly coat the air filter with clean SAE 30 oil.
- 5. Squeeze the air filter to spread and remove excess oil.
- 6. Reinstall the air filter (Fig. 14).

NOTE: Operating the unit without the air filter and air filter cover will VOID the warranty.

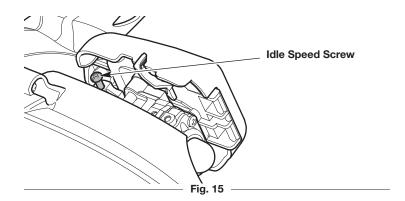
7. Close the air filter cover: insert the tabs on the air filter cover into the slots on the backplate. Swing the air filter cover to the left and press it closed until the lock tab snaps into place (Fig. 14).



ADJUSTING THE IDLE SPEED

If the engine will not idle properly:

- 1. Start the engine. Refer to Starting and Stopping.
- Move the cruise control to the LO (slow) position and let the engine idle. If the engine stops, increase the idle speed. Use a small Phillips screwdriver to turn the idle speed screw clockwise, 1/8 of a turn at a time, until the engine idles smoothly (Fig. 15).



MAINTAINING THE SPARK PLUG

- 1. Stop the engine and allow it to cool.
- 2. Open the spark plug cover (Fig. 16). Grasp the spark plug boot firmly and pull it from the spark plug.
- Clean around the spark plug. Remove the spark plug from the cylinder head with a 5/8-inch socket, turning counterclockwise.



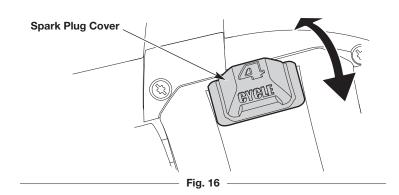
WARNING: Do not sand blast, scrape or clean spark plug electrodes. Grit in the engine could damage the cylinder.

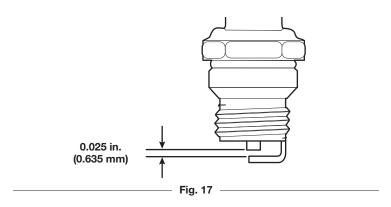
- Inspect the spark plug. If the spark plug is cracked, fouled or dirty, replace it with replacement part #753-05784, a Champion RDZ4H or an equivalent spark plug.
- Use a feeler gauge to set the air gap at 0.025 in. (0.635 mm) (Fig. 17).
- 6. Install the spark plug in the cylinder head. Tighten the spark plug with a 5/8-inch socket, turning it clockwise until snug.

NOTE: If using a torque wrench, torque to:

110-120 in. • lb. (12.3-13.5 N•m). Do not over tighten.

7. Reattach the spark plug boot. Close the spark plug cover.





CLEANING AND STORAGE

CLEANING



WARNING: To avoid serious personal injury, always stop the engine and allow it to cool before cleaning or maintaining the unit.

Use a small brush to clean the outside of the unit. Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic. Wipe off any moisture with a soft cloth.

STORAGE

- Never store a fueled unit where fumes may reach an open flame or spark.
- Allow the engine to cool before storing.
- Lock up the unit to prevent unauthorized use or damage.
- Store the unit in a dry, well-ventilated area.
- Store the unit out of the reach of children.

Long-term Storage

- 1. Remove the fuel cap, tip the unit and drain the fuel into an approved container. Reinstall the fuel cap.
- 2. Start the engine and allow it to run until it stalls. This ensures that all fuel has been drained from the carburetor.
- 3. Allow the engine to cool. Remove the spark plug and put 5 drops of any high-quality motor oil into the cylinder. Pull the starter rope slowly to distribute the oil. Reinstall the spark plug.
- 4. Thoroughly clean the unit and inspect it for any loose or damaged parts. Repair or replace damaged parts and tighten loose screws, nuts or bolts.

Preparing the Unit for Use after Long-term Storage

- 1. Remove the spark plug. Tip the unit and drain all of the oil from the cylinder into an approved container. Reinstall the spark plug.
- 2. Change the oil. Refer to Changing the Oil.

NOTE: Do not use fuel that has been stored for more than 30 days. Dispose of old fuel and oil according to federal, state and local regulations.

TROUBLESHOOTING PROBLEM SOLUTION THE ENGINE WILL NOT START The fuel tank is empty Fill the fuel tank with fresh fuel The primer bulb was not pressed enough Press the primer bulb 10 times The fuel is old (over 30 days) Drain the fuel tank and add fresh fuel The spark plug is fouled Replace the spark plug Refer to the IF... THE ENGINE IS HOT instructions in the Starting The engine is hot and Stopping section THE ENGINE WILL NOT IDLE The air filter is dirty Clean or replace the air filter The fuel is old (over 30 days) Drain the fuel tank and add fresh fuel The idle speed is incorrect Adjust the idle speed THE ENGINE WILL NOT ACCELERATE Drain the fuel tank and add fresh fuel The fuel is old (over 30 days) The air filter is dirty Clean or replace the air filter

If further assistance is required, take the unit to a Sears or other qualified service dealer.

Drain the fuel tank and add fresh fuel

Clean or replace the air filter

Replace the spark plug

THE ENGINE LACKS POWER OR STALLS

The fuel is old (over 30 days)

The air filter is dirty

The spark plug is fouled

REPAIR PROTECTION AGREEMENTS

Congratulations on making a smart purchase. Your new Craftsman® product is designed and manufactured for years of dependable operation. But like all products, it may require repair from time to time. That's when having a Repair Protection Agreement can save you money and aggravation.

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- ✓ Unlimited service and no charge for parts and labor on all covered repairs
- ☑ Product replacement up to \$1500 if your covered product can't be fixed
- Discount of 25% from regular price of service and related installed parts not covered by the agreement; also, 25% off regular price of preventive maintenance check
- ☑ Fast help by phone we call it Rapid Resolution phone support from a Sears representative. Think of us as a "talking owner's manual."

Once you purchase the Repair Protection Agreement, a simple phone call is all that it takes for you to schedule service. You can call anytime day or night, or schedule a service appointment online.

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*Coverage in Canada varies on some items. For full details call Sears Canada at 1-800-361-6665.

Sears Installation Service

For Sears professional installation of home appliances, garage door openers, water heaters, and other major home items, in the U.S.A. call **1-888-331-4569**, and in Canada call **1-800-469-4663**.

NOTES