IMPORTANT — Please make certain that persons who are to use this equipment thoroughly read and understand this user's manual prior to operation

GASOLINE EARTH AUGER USER'S MANUAL



PROBLEM	POSSIBLE CAUSE	REMEDY/ACTION	
Engine is hard to start	1. Stale fuel	Drain old fuel and replace with fresh. Use gas stabilizer at end of season	
	2. Spark plug wire loose	Make sure spark wire is securely attached to spark plug	
	3. Dirty carburetor	Clean carburetor, use gas stabilizer, new gas can	
	Throttle control not held wide open	A. Prime unit 3 more times, then hold throttle wide open when pulling recoil handle	
Engine misses or lacks power	1. Clogged gas tank	1. Remove and dean	
	2. Clogged air filter	2. Clean or replace	
	3. Carburetor out of adjustment or bad	3. Call factory	
	Spark plug wet, faulty or improperty gapped	4. Clean, replace or gap spark plug	
Engine runs, then quits	1. Gas cap not venting	Open manual venting gas cap screw all the way open (counterclockwise)	
	2. Plugged fuel filter	2. Clean or replace	
	3. Carburetor out of adjustment or bad	3. Call factory	
Enginerevstoohigh	Carburetor out of adjustment	1. Call factory	
Augertumsatide	1. Idle speed too high	Adjust idle speed lower	
	2. Broken dutch spring	2. Replace spring	
Augertums, but has no power	1. Choke on	Turn off choke after engine is running	
	2. Carburetor out of adjustment	2. Call factory	
	3. Broken transmission	3. Call factory	
	4. Worn clutch shoes	4. Replace clutch shoes and spring	
	5. Worn engine lower seat	5. Call factory	
Augerjumps	1. Blade damaged	Replace with new blade	
Auger cuts slowly	1. Duli blade	Buy new blade, or have blade sharpened at factory	
	2. Damaged fishtail point	2. Replace fishtail point	

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SAFETY

OWNER'S RESPONSIBITY

Accurate assembly and safe and effective use of the auger is the owner's responsibility.

- Read and follow all safety instructions.
- Carefully follow all assembly instructions.
- Maintain the auger according to directions and schedule included in this Earthquake operator's manual.
- Ensure that anyone who uses the auger is familiar with all controls and safety precautions.

SPECIAL MESSAGES

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.

IMPORTANT SAFETY PRECAUTIONS

<u>Please read this section carefully.</u> Operate the auger according to the safety instructions and recommendations outlined here and inserted throughout the text. Anyone who uses this auger must read the instructions and be familiar with the controls.



This symbol points out important safety instructions which if not followed could endanger your personal safety. Read and follow all instructions in this manual before attempting to operate this equipment.

- Do not carry the auger powerhead between holes with the engine running.
- The auger should not rotate when the engine is idling. If it does rotate when engine is idling, contact dealer for instructions.
- Always hands, feet, hair and loose dothing away from any moving parts on engine and auger.
- Do not allow children to operate this power auger: Do not allow adults to operate the auger without proper instruction.
- Do not operate any power equipment under the influence of alcohol or drugs.
- Keep all screws, nuts and bolts tight.
- Engine should be turned off and cool, spark plug wire must be removed from spark plug before any repairs are attempted.
- Temperature of muffler and nearby areas may exceed 150°F (65°C). Avoid these areas.
- Never run engine indoors or in an enclosed area. Engine exhaust contains carbon monoxide, an

SERVICE, TROUBLESHOOTING AND REPAIR

SERVICE INFORMATION

We build quality and durability into the design of our products; but no amount of careful design by us, and careful maintenance by you, can guarantee a repair-free life for your auger. Most repairs will be minor, and easily fixed by following the suggestions in the troubleshooting guide in this section.

The guide will help you pinpoint the causes of common problems and identify remedies.

For more complicated repairs, you may want to rely on your retailer, an authorized mechanic or. (contact your retailer for a list of authorized mechanics in your area). A parts catalog is included in this section.

We will always be glad to answer any questions you have, or help you find suitable assistance. To order parts or inquire about warranty, call or write us at the address found below, under the section ordering repair parts.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY/ACTION	
Engine will not start	1. Powerswitch off	1. Flip switch to ON position	
	2. Spark plug wire disconnected	Connect spark plug wire to spark plug	
	3. Out of fuel	3. Refuel	
	Spark plug wet, faulty or improperty gapped	4. Clean, replace or gap spark plug	
	5. Throttle control not held wide open	5. Hold throttle control wide open when pulling recoil handle	
	Fuel line hose not positioned in bottom of gas tank	6. Push fuel line down into fuel in gas tank	
Engine runs rough,	1. Dirty air filter	1. Clean or replace air filter	
floods during operation	2. Choke partially engaged	2. Turn off choke	
	3. Carburetor out of adjustment	3. Call factory	

- If an enclosed vehicle must be used, remove gas into an approved red fuel container. DO NOT siphon by mouth.
- 4. Run engine to use up the fuel in the carburetor and fuel tank. Always run engine in a well ventilated area.
- 5. Wipe away any spilled fuel from engine and earth auger. Allow to dry.

LONG TERM STORAGE

If your earth auger will not be used for more than one month, prepare it for long term storage.

Steps for Long Term Storage

- Add fuel stabilizer according to manufacturer's instructions.
- Run engine for 10-15 minutes to ensure that the stabilizer reaches the carburetor.
- 3. Remove the remainder of the fuel from the gas tank into an approved fuel container.
- Remove auger from powerhead and apply a thin layer of grease to the output shaft (8913).
- 5. Store auger and powerhead (engine) in a vertical position.
- Remove all debris from auger and powerhead (engine).

CAUTION

AVOID INJURY! TO AVOID INJURY OR DEATH, NEVER SIPHON FUEL BY MOUTH.

AVOID INJURY! NEVER STORE EARTH AUGER WITH FUEL IN THE GAS TANK INSIDE AN ENCLOSED AREA OR BUILDING.

TO PREVENT ACCIDENTAL STARTING:

AVOID INJURY! ENGINE MUST BE TURNED OFF AND COOL, AND SPARK PLUG WIRE MUST BE REMOVED FROM SPARK PLUG BEFORE CHECKING AND ADJUSTING ENGINE OR EQUIPMENT.

AVOID INJURY! AN ADULT MUST ALWAYS DO MAINTENANCE AND REPAIR ON ENGINE AND AUGER.

AVOID INJURY! ENGINE MUST BE SHUT-OFF, COOL, AND SPARK PLUG WIRE REMOVED BEFORE ANY REPAIR OR MAINTENANCE CAN BE DONE.

- odorless and deadly gas.
- If the earth auger will not turn in a hole, turn engine off and allow to cool before attempting to remove it manually.

CAUTION

CAUTION INDICATES YOU CAN OR YOUR EQUIPMENT CAN BE HURT IF THE SAFETY INSTRUCTIONS THAT FOLLOW THIS SIGNAL WORD ARE NOT OBEYED

IMPORTANT

INDICATES HELPFUL INFORMATION FOR PROPER ASSEMBLY, OPERATION, OR MAINTENANCE OF YOUR EQUIPMENT.

WARNING

ENGINE EXHAUST FROM THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFFRIA TO CAUSE CANCEN, BIRTH DEFECTS, OR OTHER REPROUCTIVE HARM.

ENGINE SAFETYPRECAUTIONS

Warning Carbon Monoxide Poisoning

All engines contain carbon monoxide in their exhaust. Carbon monoxide is a deadly, colorless, tasteless, coorless gas which may be present even if you do not smell or see any engine exhaust. Levels of carbon monoxide, which can be deadly, can be present for days in an enclosed area that has poor ventilation. Any level of carbon monoxide, if inhaled, can cause headaches, drowsiness, nausea, dizziness, confusion and eventually death. If you experience any of these symptoms, seek fresh air and medical attention immediately.

Preventing Carbon Monoxide Poisoning

- Never run engine indoors.
- Never try to ventilate engine exhaust indoors. Carbon monoxide can reach dangerous levels very quickly.
- Never run engine outdoors where exhaust furnes may be pulled into a building.
- Never run engine outdoors in a poorly ventilated area where the exhaust furnes may be trapped and not
 easily taken away. (Examples include: in a large hole or areas where hills surround your working area.)
- Never run engine in an enclosed or partially enclosed area. (Examples include: buildings that are
 enclosed on one or more sides, under tents, car ports or basements.)
- Always run the engine with the exhaust and muffler pointed in the direction away from the operator.
- Never point the exhaust muffler towards anyone. People should always be many feet away from the
 operation of the engine and its attachments.

Gasoline Fires or handling Fuel Safety

Fuel and fuel vapors are highly flammable. Never use fuel where a spark or flame may be present. Never use fuel where a potential source of ignition could occur. (Examples include: hot water or space heaters, clothes dryer, electric motors, etc.)

Keep flames and sparks away from engine and fuel to prevent fires. Fuel fires spread very quickly and are highly explosive.

Prevention of Gasoline Fires

- Never fill your fuel tank with fuel indoors. (Examples include: basement, garage, barn, shed, house, porch, etc.)
- Always fill fuel tank outside in a well ventilated area.
- Never remove the fuel cap or add fuel with the engine running. Stop engine and allow to cool before filling.
- Never drain fuel from engine in an enclosed area.
- Always wipe up excess (spilled) fuel from engine before starting. Clean up spilled fuel immediately.
- Allow spilled fuel to dry, after wiping and before starting.
- Allow fuel furnes/vapors to escape from the area before starting engine.
- Test the fuel cap for proper installation before starting and using engine.
- Always run the engine with fuel cap properly installed on the engine and gas cap vent screw unscrewed.
- Replace fuel cap that allows gas to spill or leak.
- Never smoke while refilling engine fuel tank.

CAUTION

TO PREVENT ACCIDENTAL STARTING:

AVOID INJURY! ENGINE MUST BE TURNED OFF AND COOL, AND SPARK PLUG WIRE MUST BE REMOVED FROM SPARK PLUG BEFORE CHECKING AND ADJUSTING ENGINE OR EQUIPMENT.

AVOID INJURY! TEMPERATURE OF MUFFLER AND NEARBY AREAS MAY EXCEED 150F (65C)

AVOID THESE AREAS.

AVOID INJURY! CHECK AUGIER OFTEN FOR LOSSE NUTS AND BOLTS, KEEP THESE ITEMS TIGHTENED.

AVOID INJURY! NEVER STORE ENGINE WITH FUEL IN THE TANK INSIDE A BUILDING. POTENTIAL SPARKS MAY BE PRESENT FOR IGNITION OF FUEL AND FUEL VAPORS.

AVOID INJURY! AN ADULT MUST ALWAYS DO MAINTENANCE AND REPAIR ON ENGINE AND AUGER.

AVOID INJURY! ENGINE MUST BE SHUT-OFF, COOL, AND SPARK PLUG WIRE REMOVED BEFORE ANY REPAIR OR MAINTENANCE CAN BE DONE.

Spark Plug

The recommended spark plug is a NGK BM6A which cross references to a Champion CJ8.

- Check spark plug every 50 operating hours.
- Disconnect the spark plug cap, and clean any debris from around the spark plug area.
- Remove spark plug and replace if any of the following occur; pitted electrodes, burned electrodes, cracked porcelain, or deposits around electrodes.
- After analysis, seat spark plug and tighten with spark plug wrench.
- Reinstall original spark plug, tighten additional 1/2 turn.
- Installing new spark plug, adjust spark plug gap to .030" and tighten additional 1/8—1/4 turn.
 NOTE: Loose spark plug may overheat and damage engine. Over tightened spark plug may damage threads in the cylinder head.

Carburetor

Never tamper with factory setting of the carburetor.

TRANSPORTING YOUR EARTH AUGER

- Never transport engine inside an enclosed space or vehicle. Fuel or fuel vapors may ignite causing serious injury or death.
- If fuel is present in the fuel tank, transport in an open vehicle in an upright position.

MAINTENANCE AND STORAGE

AUGER MAINTENANCE

- The gear case has 4 oz. of grease installed at the factory. It is recommended that once a year the gear
 case be split and the grease level checked. Add grease only if level of grease is below top of the gears.
 DO NOT OVERFILL.
- 2. Keep all screws, nuts, and bolts tight.
- For cold weather operation, store the unit in a cool environment. Transferring the unit from a warm to a cold place can cause the build up of harmful condensation.
- If blade performance decreases, turn unit off and disconnect spark plug wire. Carefully inspect cutting
 edge of blade for any signs of wear. If blades show any of these signs, they need to be sharpened or
 replaced.
- **ENGINE MAINTENANCE**

Cooling Fins

Cooling fins, air inlets and linkages must be free from any debris before each use.

Air Filter

Never run engine without air cleaner property installed. Added wear and engine failure may occur if air cleaner is not installed. Service air cleaner every 3 months or after 20 hours of operation. Clean filter daily in extremely dusty conditions

Steps for Cleaning Air Filter

- Wash in warm water with mild soap until dirt and debris are removed. Press filter when washing, do not twist.
- Rinse in warm water until soap and dirt are removed.
- Dry filter by wrapping in a clean cloth and pressing filter until it is dry.
- Apply oil to the entire filter.
- Remove excess oil.
- Attach the filter and air deaner cover to the engine.

- Prevent fire and explosion caused by static electric discharge. Use only non-metal, portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing & Materials (ASTM).
- Do not store engine with fuel in fuel tank indoors. Fuel and fuel vapors are highly explosive.
- When storing, screw down gas cap vent screw tightly.
- Never pour fuel from engine fuel tank.
- Never siphon fuel by mouth to drain fuel tank.
- Always have an adult fill the fuel tank.
- Neverallow an adult or anyone under the influence of drugs or alcohol to fill engine.
- Never allow children to fill the engine.

BURNS AND FIRES

The muffler, muffler guard and other parts of the engine become extremely hot during the operation of the engine. These parts remain extremely hot after the engine has stopped.

Prevention of Burns and Fires

- Never remove the muffler guard from the engine.
- Nevertouch the muffler guard because it is extremely hot and will cause severe burns.
- Never touch parts of the engine that become hot after operation.
- Always keep materials and debris away from muffler guard and other hot parts of the engine to avoid fires.

CAUTION

HOT GASES ARE A NORMAL BY-PRODUCT OF A FUNCTIONING CATALYTIC CONVERTER. FOLLOWALL SAFETY INSTRUCTIONS TO PREVENT BURNS AND FIRES.

OPERATION

STEPS FOR WORKING ON ENGINE OR AUGER

- Turn off engine switch.
- Disconnect the spark plug wire from the spark plug.
- Securely place the disconnected spark plug wire away from the spark plug and any metal parts. This
 must always be done or arcing may occur between spark plug wire and metal parts.
- 4. Replace or repair the part on the engine or auger.
- Check all parts that were repaired, or removed during repair, that they are secure and fit correctly.
 NOTE: All repair parts must come from the factory. Never replace parts that are not specifically designed for the engine or auger.
- 6. Replace spark plug wire.

PREPARING ENGINE FOR STARTING

GAS AND OIL

Quality

To operate the engine, we recommend using "VIPER" brand 2 cycle oil (PN 300400) to ensure that the engine operates correctly throughout the life of the engine. Use unleaded regular gas only.

Mixture

Run earth auger with a 25:1 ratio

GAS	OIL	RATIO
1 gallon	2.5 ounces	25:1
2 gallons	5 ounces	25:1
5 gallons	13 ounces	25:1

MIXING FUEL AND FILLING GAS TANK

Mixing Fuel

- Fuel must be mixed in a container outside in a well ventilated area.
- Fill certified fuel container 1/4 full of recommended fuel.
- Add recommended amount of 2 cycle oil.
- Screw container cap on straight and tight.
- Shake the container to mix fuel and oil.
- Unscrew gas cap slowly to vent, add the remainder of fuel requirements.
- Wipe away any spilled fuel or oil and allow to evaporate before moving or transporting.

HOT ENGINE START:

- Open gas cap vent screw all the way (counterdockwise).
- Continue with Step 5 of Cold Engine Starting.
- 3. If engine does not fire, refer to Step 2 of Warm Engine Starting.

DO NOT attempt to start engine in the following ways:

- DO NOT use starting fluid DO NOT spray flammable liquids or vapors into air deaner, carburetor or spark plug chamber.
- DO NOT remove spark plug and pull on starter rope. Flammable fuel can spray out & ignite from a spark from spark plug.

SPECIFICATION

Model	PHD43	PHD52	PHD71
IVIOGEI	PHD43	PHIDOZ	PHD/I
Engine Model	1E40	1E44	1E50-1
Engine Type	Forced Air-cooled 2-Stroke		
Displacement	43cc	51.7cc	71cc
Max. Output	1 <i>2</i> kW	1.4kW	2.4kW
Fuel	Gasoline And Oil Mixture(25:1)		
Fuel Tank Capacity	0.8 L	0.8 L	0.8 L
Ignition System	C.D.I.		
Starting System	Recoil		
Gear Ratio	34:1		
Max. Engine Speed (r/min)	9500		
Clutch Engine Speed (r/m)	3700		
Idle Engine Speed (r/m)	2700		
Auger Speed (r/m)	110-280		
Max. Auger Dimension (mm)	150	200	300

9. To stop engine, push rocker switch to OFF position.

WARM ENGINE START:

- Open gas cap vent screw all the way (counterclockwise).
- Move choke lever to CHOKE or ON position
 NOTE: CHOKE position is defined by moving the choke lever as far to the ON position as possible.
- 3. Continue with Step 5 of Cold Engine Starting.

CAUTION

AVOID INJURY! ALWAYS HANDLE FUEL IN A WELL VENTILATED AREA, OUTDOORS, AWAY FROM ALAMES OR SPARKS.

AVOID INJURY! DO NOT START ENGINE IF FUEL IS SPILLED. WIPE OFF EXCESS FUEL AND ALLOW TO DRY, REMOVE ENGINE FROM AREA TO AVOID SPARKS.

AVOID INJURY! IF AUGER IS MOUNTED TO ENGINE, ALL SAFETY GUARDS MUST BE SECURELY ON TO AVOID SERIOUS INJURY.

AVOID INJURY! STARTER ROPE CAN CAUSE AN UNANTICIPATED JERK TOWARDS ENGINE. PLEASE FOLLOW INSTRUCTIONS TO AVOID INJURY.

AVOID INJURY! NEVER LEAVE ENGINE RUNNING WHILE UNATTENDED. TURN OFF AFTER EVERY USE

AVOID INJURY! NEVER CARRY POWERHEAD AND AUGER BETWEEN HOLES WHILE ENGINE IS RUNNING.

WARNING

AVOID INJURY! MAKE SURE THE UNIT IS IN A STABLE POSITION BEFORE PULLING THE STARTER HANDLE.

AVOID INJURY! WHEN THE UNIT STARTS TO FIRE OR RUN, RELEASE THE THROTTLE CONTROL MOMENTARILY WITH YOUR RIGHT HAND AND RETURN YOUR LEFT HAND TO THE HANDLEBAR POSITION TO MAINTAIN CONTROL AND STABILITY OF THE UNIT WITH BOTH HANDS.

CAUTION

DO NOT ALTER/MODIFY ENGINE OR AUGER:

AVOID INJURY! NEVER ALTER OR MODIFY THE ENGINE FROM THE FACTORY. SERIOUS INJURY OR DEATH MAY OCCUR IF ENGINE IS MODIFIED OR ALTERED.

AVOID INJURY! WHEN WORKING ON OR REPLACING PARTS FOR THE ENGINE OR AUGER YOU MUST ALWAYS DISCONNECT SPARK PLUG WIRE FROM THE SPARK PLUG AND KEEP IT AWAY FROM THE SPARK PLUG.

AVOID INJURY! ALWAYS WEAR HEARING PROTECTION WHILE OPERATION ENGINE.

AVOID INJURY! PLEASE DO NOT START YOUR EARTH AUGER UNTIL YOU HAVE READ THE PREVIOUS SECTION OF THIS MANUAL IF YOU HAVE READ THESE, FOLLOW THE STEPS BELOW TO START YOUR EARTH AUGER.

AVOID INJURY! NEVER STORE ENGINE WITH GAS IN THE TANK INDOORS, FUEL AND FUEL VAPORS ARE HIGHLY FLAMMARI.E.

AVOID INJURY! NEVER MIX FUEL AND OIL DIRECTLY IN ENGINE GAS TANK USE ONLY NON-METAL, PORTABLE FUEL CONTAINERS APPROVED BY THE UNDERWRITER'S LABORATORY (U.L.) OR THE AMERICAN SOCIETY FOR TESTIING & MATERIALS (ASTM). AVOID INJURY! AN ADULT MUST ALWAYS HANDLE AND FILL THE ENGINE WITH FUEL AVOID INJURY! ALWAYS HANDLE FUEL IN A WELL VENTILATED AREA, OUTDORRS, AWAY FROM FLAMES OR SPARKS.

IMPORTANT

THIS ENGINE USED A GAS/OIL MIXTURE. DO NOT RUN ON STRAIGHT GAS ONLY, ENGINE DAMAGE WILL RESULT.

Filling Gas Tank

- Shut-off engine and allow engine to completely cool before refilling the gas tank.
- Move to a well ventilated area, outdoors, away from flames and sparks.
- 3. Clean debris from area around the gas cap.
- Loosen gas cap slowly. Place the cap on a clean, dry surface.
- 5. Carefully add fuel without spilling.
- Do not fill gas tank completely full, allow space for fuel to expand.
- 7. Immediately replace gas cap and tighten. Wipe off spilled fuel and allow to dry before starting engine.

NORMAL OPERATION

- The clutch will transfer maximum power after about two hours of normal operation. During this break-in
 period clutch slippage may occur. The clutch should be kept free of oil or other moisture for efficient
 operation.
- Drill holes without placing excessive body weight on the unit. The auger operates most efficiently with a shaving action caused by the weight of the unit itself.
- Never run engine indoors. Exhaust fumes are deadly.
- Do not use an earth auger in the ice.
- To attach auger to powerhead, align hole at top of auger shaft with the output shaft hole. Insert 3/8-16 x
 1-1/2" bolt and secure bolt with provided 3/8" bi-way lock nut using a wrench.
 - NOTE: The ends of the bolt should be flush with the auger collar. Bolt head and thread end should never go beyond earth collar.

USING THE SCREW TYPE, MANUAL VENTING GAS CAP

- Your power earth auger is equipped with a screw type, manual venting gas cap.
- Before starting the engine, turn the screw in the top of the gas cap all the way open (counterclockwise) to
 its venting position. To ensure that gas will not spill during use, check that the gas cap is screwed on tightly
 and the gas cap screw is in the venting position.
- After using the power earth auger and before putting away or transporting it in a vehicle, screw the gas
 cap screw on (clockwise) tightly. This will prevent gas from leaking during storage. The gas cap will not
 leak gas during storage if the gas cap is tight and the screw at the top is tight.
 - NOTE: When storing unit in an upright position for pro-longed periods of time in warm weather, vent gas cap to prevent gas from leaking from carburetor.

CAUTION

AVOID INJURY! ALWAYS HANDLE FUEL IN A WELL VENTILATED AREA, OUTDOORS, AWAY FROM FLAMES OR SPARKS.

AVOID INJURY! DO NOT START ENGINE IF FUEL IS SPILLED. WIPE OFF EXCESS FUEL AND ALLOW TO DRY, REMOVE ENGINE FROM AREA A TO AVOID SPARKS.

STARTING AND STOPPING ENGINE

- Move engine to a well ventilated area, outdoors, to prevent carbon monoxide poisoning.
- Move to an area away from flames or sparks, to avoid ignition of vapors if present.
- Remove all debris from air cleaner holes and gas cap to ensure proper air flow.

COLD ENGINE START: Starting engine for first time or after engine has cooled off or after running out of fuel.

- Open gas cap vent screw all the way (counterclockwise).
- Move choke lever to RUN or OFF position.
 - NOTE: Choke must be in the RUN or OFF position when pushing or using the primer bulb
- Prime unit until primer hose is filled with gas.
 - NOTE: When using the primer bulb, allow the bulb to return completely to its original position between pushes
- Move choke lever to CHOKE or ON position.
 - NOTE: CHOKE position is defined by moving the choke lever as far to the ON position as possible.
- Push rocker switch to the ON position.
- 6. Squeeze throttle control wide open with right hand. Grasp starter handle with left hand and pull out slowly, until it pulls slightly harder. Without letting starter handle retract, pull rope with a rapid full arm stroke. Let it return to its original position very slowly until unit fires or runs. Repeat this step every time the starter rope is pulled.
 - NOTE: If engine fails to start after 5-6 pulls, push primer 1 time and pull starter rope again.
- After engine starts running, move choke lever to HALF CHOKE position until unit runs smoothly
 NOTE: HALF CHOKE is defined when the choke lever is between CHOKE and RUN or ON
 and OFF.
- Move choke lever to RUN or OFF position and move throttle to desired speed.
 NOTE: Run at full throttle when possible. Do not let unit idle for extended periods of time.