Operator's Manual PB-9510 H/T Power Blower

⚠ WARNING

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

⚠ WARNING



Read and understand all provided literature before use. Failure to do so could result in serious injury.

Note: This product complies with CAN ICES-2/NMB-2.

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INTRODUCTION

Specifications, descriptions, and illustrative material in this literature are as accurate as possible. Specifications are subject to change without notice. Illustrations might include optional equipment and accessories, and might not include all standard equipment. Your equipment might appear slightly different than pictured equipment.



Read and understand all provided literature. Literature contains specifications and information for safety, operation, maintenance, storage, and assembly specific to this product. Scan QR codes for more information.



For additional literature, including safety manuals where applicable, or questions regarding terms used in this manual, visit:

https://www.echo-usa.com/technical-documentation

OR

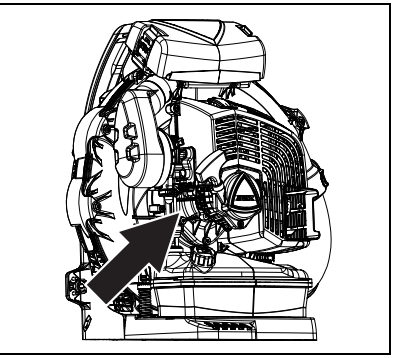
https://www.shindaiwa-usa.com/technical-documentation

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SERVICING INFORMATION

Parts and Serial Number

Genuine ECHO parts and assemblies for your ECHO products are available only from an Authorized Service Dealer. When you do need to buy parts, always have the model number and serial number of the unit with you. Image shows serial number location. For future reference write them in the space provided below.



Model No. _____ Serial No. _____

Service

Service of this product during the warranty period must be performed by an Authorized Service Dealer. For the name and address of the Authorized Service Dealer nearest you, ask your retailer or call 1-800-432-ECHO (3246). Authorized Service Dealer information is also available on our website https://www.echo-usa.com. When presenting your unit for warranty service/repairs, proof of purchase is required.

ECHO Consumer Product Support

If you require assistance or have questions concerning the application, operation, or maintenance of this product, call the ECHO Consumer Product Support Department at 1-800-432-ECHO (3246) from 8:00 a.m. to 5:00 p.m. (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

Product Registration

Register your ECHO equipment online at https://www.echo-usa.com or by filling out the product registration sheet included in this manual. Registering your product confirms warranty coverage and provides a direct link to ECHO if we find it necessary to contact you.

Additional Literature

In addition to finding information online, information is available from your Authorized Service Dealer, or by contacting ECHO Incorporated, 400 Oakwood Road, Lake Zurich, IL 60047, 1-800-432-ECHO (3246).

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SAFETY

Manual Safety Symbols and Important Information

Throughout this manual and on the product itself, you will find safety alerts and helpful informational messages preceded by symbols or key words. The following is an explanation of those symbols and key words and what they mean to you.

⚠ DANGER

The safety alert symbol accompanied by the word "DANGER" calls attention to an act or condition which WILL lead to serious personal injury or death if not avoided.

⚠ WARNING

The safety alert symbol accompanied by the word "WARNING" calls attention to an act or condition which COULD lead to serious personal injury or death if not avoided.

⚠ CAUTION

The safety alert symbol accompanied by the word "CAUTION" calls attention to an act or condition which might lead to minor or moderate personal injury if not avoided.

NOTICE

The enclosed message provides information necessary for the protection of the unit.

Note: This enclosed message provides tips for use, care and maintenance of the unit.



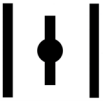
CIRCLE AND SLASH SYMBOL
This symbol means the specific action shown is prohibited. Ignoring these prohibitions can result in serious or fatal injury.

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International Symbols

Symbol	Description	Symbol	Description
	Read and understand the operator's manual.	H	Carburetor adjustment (high speed)
	Wear eye, ear and head protection.	T	Carburetor adjustment (idle speed)
	Wear hand protection.	L	Carburetor adjustment (low speed)
	Safety/alert	STOP	Stop switch
	Hot surface		Fuel and oil mixture
	Idle speed		Fast speed
	Finger severing		Purge bulb
	Do not allow flames or sparks near fuel.	Ignition ON I OFF O	Ignition on / off
	Do not smoke near fuel.		Choke control cold start position (choke closed)

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Symbol	Description	Symbol	Description
	Choke control run position (choke open)		Wear slip resistant footwear.
		Beware of thrown objects.	
		Keep bystanders and helpers away 15 m (50 ft.).	

Note: Not all symbols will appear on your unit.



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Personal Condition and Safety Equipment

⚠ WARNING

Cancer and Reproductive Harm
https://www.P65Warnings.ca.gov

⚠ WARNING

The muffler or catalytic muffler and surrounding cover may become extremely hot. If unit is equipped with muffler, always keep clear of exhaust and muffler area, otherwise serious personal injury might occur.

⚠ WARNING

Users of this product risk injury to themselves and others if the unit is used improperly and/or safety precautions are not followed. Proper clothing and safety gear must be worn when operating unit.

Physical Condition

Your judgment and physical dexterity may not be good:

- If you are tired or sick
- If you are taking medication
- If you have taken alcohol or drugs

Operate unit only if you are physically and mentally well.

Eye Protection

⚠ WARNING

- **Eye protection that meets ANSI Z87.1 or CE requirements must be worn whenever you operate the unit.**
- **For additional safety, a full-face shield (not included) can be worn over safety glasses or goggles to provide protection from sharp branches or flying debris.**

Hand Protection

Wear sturdy, no-slip, rubber work gloves to improve your grip on the handles. Gloves also provide protection against cuts and scratches, cold environments, and reduce the transmission of machine vibration to your hands.

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Hearing and Ear Protection

ECHO recommends wearing personal protective equipment whenever unit is used.

Breathing Protection

Operators who are sensitive to dust or other common airborne allergens may need to wear a dust mask to prevent inhaling these materials while operating unit. Dust masks can provide protection against dust, plant debris, and other plant matter such as pollen. Make sure the mask does not impair your vision. Replace the mask as needed to prevent air restrictions.

Proper Clothing

Wear snug-fitting, durable clothing:

- Pants should have long legs, shirts should have long sleeves.
- Do not wear shorts.
- Do not wear ties, scarves, jewelry, or clothing with loose or hanging items that could become entangled in moving parts or surrounding growth.
- Keep clothing buttoned or zipped, and keep shirt tails tucked in.
- Wear sturdy work shoes with nonskid rubber soles.
- Do not wear open toed shoes.
- Do not operate unit with bare feet.
- Keep long hair away from engine and air intake. Retain hair with cap or net.

Heavy protective clothing can increase operator fatigue, which may lead to heat stroke. Schedule heavy work for early morning or late afternoon hours when temperatures are cooler.

⚠ WARNING

The components of this machine generate an electromagnetic field during operation, which can interfere with some pacemakers. To reduce the risk of serious or fatal injury, persons with pacemakers should consult with their physician and the pacemaker manufacturer before operating this machine. In the absence of such information, ECHO does not recommend the use of this machine by anyone who has a pacemaker.

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Extended Operation and Extreme Conditions

⚠ CAUTION

Prolonged exposure to cold and/or vibration can result in injury. Read and follow all safety and operation instructions to minimize risk of injury. Failure to follow instructions can result in painful wrist/hand/arm injuries.

It is believed that a condition called Raynaud's Phenomenon, which affects the fingers of certain individuals, may be brought about by exposure to vibration and cold. Exposure to vibration and cold may cause tingling and burning sensations, followed by loss of color and numbness in the fingers. The following precautions are strongly recommended, because the minimum exposure which might trigger the ailment is unknown.

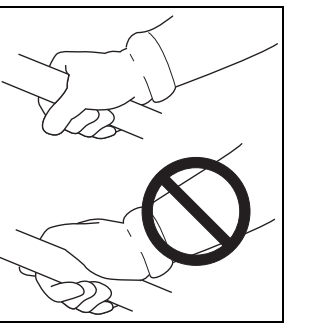
- Keep your body warm, especially the head, neck, feet, ankles, hands, and wrists.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks, and also by not smoking.
- Limit the hours of operation. Try to fill each day with jobs where operating the unit or other hand-held power equipment is not required.
- If you experience discomfort, redness, and swelling of the fingers followed by whitening and loss of feeling, consult your physician before further exposing yourself to cold and vibration.

Repetitive Stress Injuries (RSI)

It is believed that overusing the muscles and tendons of the fingers, hands, arms, and shoulders may cause soreness, swelling, numbness, weakness, and extreme pain in those areas. Certain repetitive hand activities may put you at a high risk for developing a Repetitive Stress Injury (RSI). An extreme RSI condition is Carpal Tunnel Syndrome (CTS), which could occur when your wrist swells and squeezes a vital nerve that runs through the area. Some believe that prolonged exposure to vibration may contribute to CTS. CTS can cause severe pain for months or even years.

To reduce the risk of RSI/CTS, do the following:

- Avoid using your wrist in a bent, extended, or twisted position. Instead try to maintain a straight wrist position. Also, when grasping, use your whole hand, not just the thumb and index finger.
- Take periodic breaks to minimize repetition and rest your hands.
- Reduce the speed and force with which you do the repetitive movement.



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- Do exercises to strengthen the hand and arm muscles.
- Immediately stop using all power equipment and consult a doctor if you feel tingling, numbness, or pain in the fingers, hands, wrists, or arms. The sooner RSI/CTS is diagnosed, the more likely permanent nerve and muscle damage can be prevented.

⚠ DANGER

All overhead electrical conductors and communications wires can have electricity flow with high voltages. This unit is not insulated against electrical current. Never touch wires directly or indirectly, otherwise serious injury or death can result.

⚠ DANGER

Do not operate gas-powered products indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions and can cause serious injury or death.

Read the Manual

- Provide all users of this equipment with literature for instructions on safe operation.

Clear the Work Area

- Clear the area of children, bystanders, and pets. At a minimum, keep all children, bystanders, and pets outside a 15 m (50 ft.) radius; outside the 15 m (50 ft.) zone, there is still a risk of injury from thrown objects. Bystanders should be encouraged to wear eye protection (not included). If you are approached, stop the engine.
- Avoid blowing debris towards people, pets, open windows, or vehicles when using unit.
- Review area to be cleared. Look for potential hazards such as stones or metal objects.

Keep a Firm Grip

- To prevent from dropping the unit, hold the handle in one hand, with thumb and fingers encircling the handle.

Keep a Solid Stance

- Maintain footing and balance at all times. Do not stand on slippery, uneven or unstable surfaces. Do not work in odd positions or on ladders. Do not over reach.

Avoid Hot Surfaces

- Keep exhaust area clear of flammable debris. Avoid contact during and immediately after operation.



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Equipment

⚠ WARNING

Use only approved attachments. Serious injury can result from the use of a non-approved attachment combination. ECHO Incorporated will not be responsible for the failure of cutting devices, attachments or accessories which have not been tested and approved by ECHO. Read and comply with all safety instructions listed in this manual.

- **Do not attempt to modify this product. Serious injury can result from the use of any modified product.**
- **Check unit for loose/missing nuts, bolts, and screws. Tighten and/or replace as needed.**
- **Do not use blower if any part is missing or damaged.**
- **Have repairs done only by an authorized service dealer.**

⚠ WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings.

- ***Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit.***
- ***Do not start or operate unit unless all guards and protective covers are properly assembled to unit.***
- ***Never reach into any opening while the engine is running. Moving parts might not be visible through openings.***

⚠ WARNING

Periodically check fuel system (fuel lines, vent, grommet, fuel tank, and fuel cap) for leaks especially if the unit is dropped. If damage or leaks are found, do not use unit, otherwise serious personal injury or property damage may occur. Have unit repaired by an authorized servicing dealer before using.

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EMISSION CONTROL

CARB and EPA Emission Control Information



The emission control system for the engine is EM (engine modification) and, if the second to last character of the Engine Family on the Emission Control Information label (sample below) is “B”, “C”, “K”, or “T”, the emission control system is EM and TWC (3-way catalyst). The fuel tank/fuel line emission control system is EVAP (evaporative emissions). Evaporative emissions for California models are only applicable to fuel tanks and fuel feed lines.

An **Emission Control Label** is located on the engine. (This is an EXAMPLE ONLY, information on label varies by engine FAMILY).



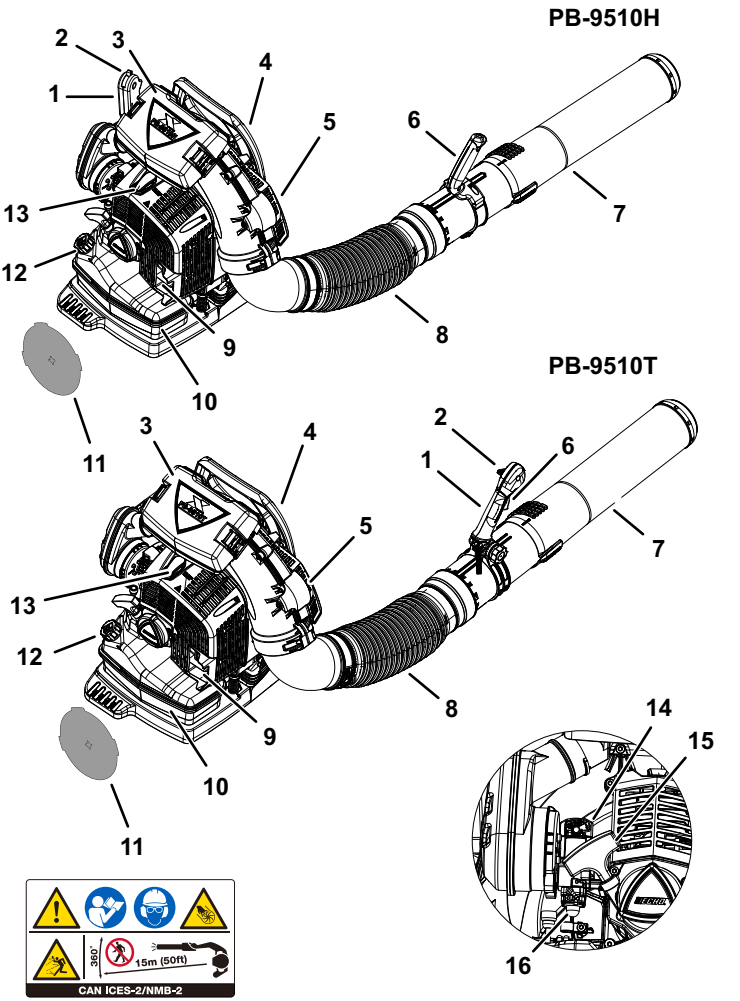
Product Emission Durability (Emission Compliance Period)

The 50 or 300 hour emission compliance period is the time span selected by the manufacturer certifying the engine emissions output meets applicable emissions regulations, provided that approved maintenance procedures are followed as listed in the Maintenance Section of this manual.

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DESCRIPTION

Locate the safety decal(s) or etching(s) on your unit. Make sure they are legible, and that you understand and follow the instructions. If any cannot be read, replacements can be ordered from your ECHO dealer. Images shown below are for example only. Those on your unit might appear slightly different.



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1. Handle - PB-9510H
   Throttle handle - PB-9510T
2. Throttle position Lever / Stop switch
3. Air cleaner
4. Shoulder harness
5. Safety decal
6. Stick handle - PB-9510H
   Throttle trigger - PB-9510T
7. Blower pipe
8. Flexible pipe
9. Spark arrester muffler or spark arrester muffler with catalyst
10. Fuel tank
11. Cold weather insert
12. Fuel tank cap
13. Spark plug
14. Choke
15. Recoil starter handle
16. Purge bulb

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CONTENTS

The ECHO product you purchased has been factory pre-assembled for your convenience. Due to packaging restrictions, some assembly may be necessary.

After opening the carton, check for damage. Immediately notify your retailer or ECHO Dealer of damaged or missing parts. Use the contents list to check for missing parts.

1	Power head
1	Flex pipe
1	Swivel pipe
1	Straight pipe
1	Quick start guide
2	Clamps (with screws)
1	Warranty statement
1	Stick handle (PB-9510H only)
1	Cold weather insert

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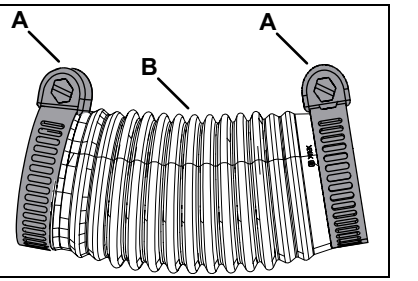
ASSEMBLY

Install Blower Pipes and Stick Handle PB-9510H

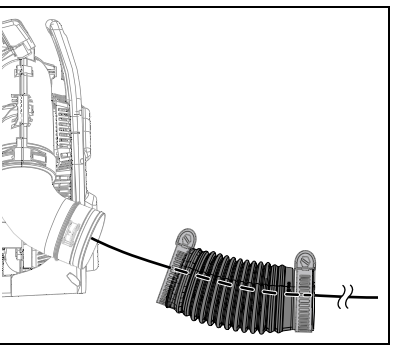
WARNING

Never perform maintenance or assembly procedures with engine running or serious personal injury can result.

1. Assemble clamps (A) onto both ends of flexible pipe (B).

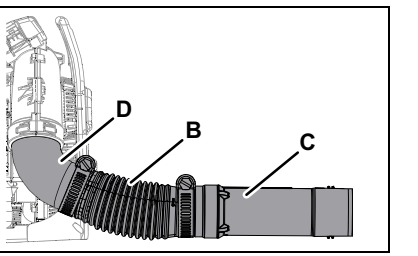


2. Insert the anti-static wire through the flexible pipe.



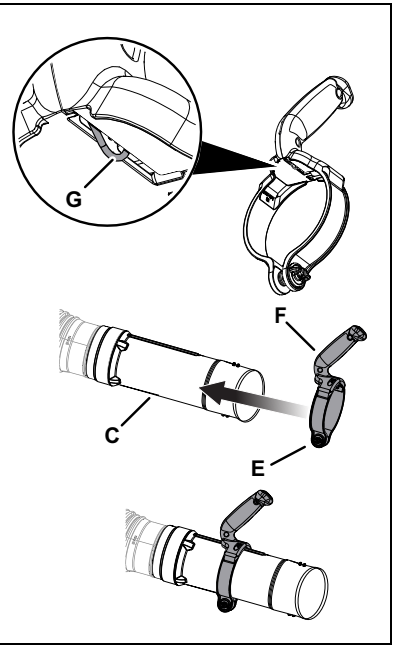
Note: A light lubricant may be used to ease assembly of flexible pipe to blower elbow.

3. Assemble swivel pipe (C) into narrow end of flexible pipe (B).
4. Assemble flexible pipe (B) to elbow (D) on blower and tighten clamps (A).

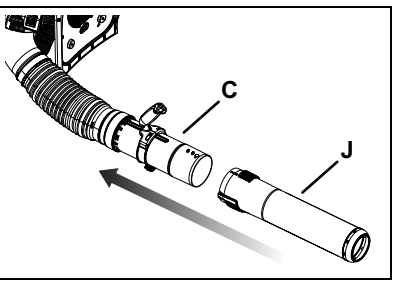


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5. Loosen knob (E) completely and expand stick handle clamp.
6. Align wire (G) in handle with grounding strip on swivel pipe (C).
7. Slide stick handle onto swivel pipe (C). Stick handle (F) should be angled away from operator.
8. Position stick handle (F) for comfortable operation. Tighten knob (E).



9. Assemble straight pipe (J) onto swivel pipe (C), until you feel light resistance. Hold swivel pipe and turn straight pipe clockwise, engaging positive locking channels, until connection is firm. Do not force connection.



Note: Blower use will eventually loosen pipe connections. Exclusive positive locking system allows pipes to be tightened. If loosening occurs, remove the pipe and install according to step 9.

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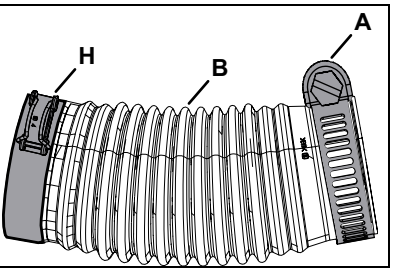
Install Blower Pipes PB-9510T

WARNING

Never perform maintenance or assembly procedures with engine running or serious personal injury may result.

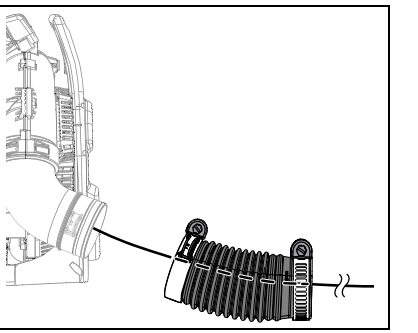
1. Assemble clamps (A) and (H) onto both ends of flexible pipe (B).

Note: Clamp with cable guide loop (H) fits wide end of flexible pipe.



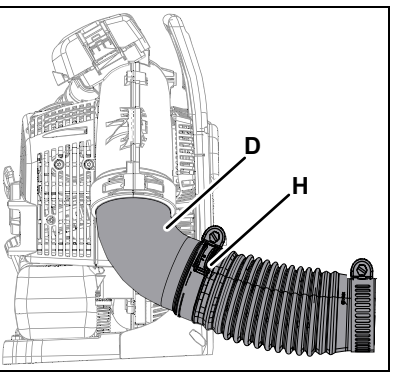
2. Insert anti-static wire through flex tube.

Note: A light lubricant may be used to ease assembly of flexible pipe to blower elbow.



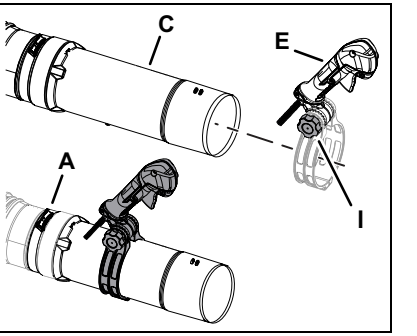
3. Assemble wide end of flexible pipe to elbow (D) on blower. Position clamp with cable guide loop (H) on outside of flexible pipe and tighten clamp.

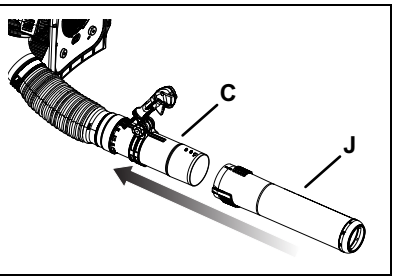
Note: Hang handle freely from blower to assure throttle cable is not twisted before installing handle (E).



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4. Position throttle cable along the outside of elbow. Loosen knob (I) on handle (E). Install onto swivel pipe (C).
5. Insert anti-static wire into swivel pipe.
6. Assemble swivel pipe into flexible pipe and tighten clamp (A).
7. Clip throttle cable into throttle cable guide loop (H).
8. Move handle (E) to desired position. Tighten knob (I).
9. Assemble straight pipe (J) onto swivel pipe, until you feel light resistance. Hold swivel pipe and turn straight pipe clockwise, engaging positive locking channels, until connection is firm. Do not force connection.





Note: Blower use will eventually loosen pipe connections. Exclusive positive locking system allows pipes to be tightened. If loosening occurs, remove the pipe and install according to step 9.

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OPERATION

⚠ WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings. Always stop engine, disconnect spark plug, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit. Blower housing might contain shredder blades and other sharp edges that can cause serious injuries if touched, even if engine is off and blades are not moving. Wear gloves to protect hands from sharp edges and hot surfaces.

⚠ WARNING

Operation of this equipment might create sparks that can start fires around dry vegetation. This unit is equipped with a spark arrester to prevent discharge of hot particles from the engine. Contact local fire authorities for laws or regulations regarding fire prevention requirements.

⚠ WARNING

Engine exhaust is hot, and contains Carbon Monoxide (CO), a poison gas. Breathing CO can cause unconsciousness, serious injury, or death. Exhaust can cause serious burns. Always position unit so that exhaust is directed away from your face and body.

⚠ WARNING

- **This blower should be used for clearing leaves, grass, debris, and dust in yards, gardens, driveways, and parking lots only.**
- **Always maintain a direct, clear line of site to the unit and the work being performed.**
- **Always be alert for changes in operation of unit.**
- **Always shut engine off before transporting unit to new location.**
- **Always secure the unit during transportation to prevent turnover, fuel spillage, and damage to the unit.**

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Fuel

⚠ WARNING

Diesel fuels and alternative fuels, such as E15 (15% ethanol), E85 (85% ethanol) or any fuels not meeting ECHO requirements are not approved for use in ECHO two-stroke or hybrid four-stroke gasoline engines. Use of diesel or alternative fuels may cause performance problems, loss of power, overheating, fuel vapor lock, and unintended machine operation, including, but not limited to, improper clutch engagement. Diesel or alternative fuels may also cause premature deterioration of fuel lines, gaskets, carburetors and other engine components.

Fuel Requirements

Gasoline - Use fresh (purchased within the last 30 days from the pump) 89 octane [R+M/2] (mid grade or higher) gasoline known to be good quality. Gasoline may contain up to 10% Ethanol (grain alcohol) or 15% MTBE (methyl tertiary-butyl ether). Gasoline containing methanol (wood alcohol) is not approved. Use of ECHO branded fuel is recommended to extend engine life in all air-cooled two-stroke and two or four-stroke hybrid engines.

Two-Stroke Oil - A two-stroke engine oil, such as ECHO branded two-stroke oils, meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FD Standards must be used. ECHO branded two-stroke oils meet these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345-FD certified oil will void the two-stroke engine warranty.

⚠ WARNING

Two-stroke engine oil contains petroleum distillates and other additives that may be harmful if swallowed. Heated oil can release vapors that can cause flash fire, or ignite with explosive force. Read and follow the oil manufacturer's instructions, and observe all safety warnings and precautions for handling flammable liquids. For more detailed safety and first aid information, visit https://www.echo-usa.com for a copy of the Material Safety Data Sheet.

- ***Keep out of reach of children.***
- ***If swallowed, do not induce vomiting. Call physician or a poison control center immediately.***
- ***Wear safety glasses when mixing or handling.***

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- ***Avoid repeated or prolonged skin contact.***
- ***Avoid inhaling oil mists or vapors.***

NOTICE

ECHO branded two-stroke oils may be mixed at a 50:1 ratio for application in all ECHO engines previously sold, regardless of the fuel-to-oil ratio specified in their manuals.

Handling Fuel

⚠ DANGER

Fuel is flammable. Use care when mixing, storing or handling, or serious personal injury may result.

- ***Use an approved fuel container.***
- ***Do not smoke near fuel.***
- ***Do not allow flames or sparks near fuel.***
- ***Fuel tanks/cans may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.***
- ***Never refuel a unit when the engine is hot or running.***
- ***Do not fill fuel tanks indoors. Always fill fuel tanks outdoors over bare ground.***
- ***Do not overfill fuel tank. Wipe up spills immediately.***
- ***Securely tighten fuel tank cap and close fuel container after refueling.***
- ***Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.***
- ***Use caution when handling fuel. Mix and pour fuel outdoors where there are no sparks and flames. Slowly remove the fuel cap only after stopping the engine and allowing the unit to cool. Do not smoke while fueling or mixing fuel. Move the unit at least 3 m (10 ft.) from the fueling point before starting the engine.***

⚠ DANGER

Gasoline vapor is heavier than air, and can travel along the ground to nearby sources of ignition such as electrical motors, pilot lights, and hot or running engines. Vapors ignited by an ignition source can flash back to the fuel container, resulting in an explosion, fire, serious or fatal injuries, and extensive property damage.

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Mixing Instructions

1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add the proper amount of engine oil to gasoline.
3. Close container and shake to mix oil with gasoline.
4. Add remaining gasoline, close fuel container, and remix.

FUEL TO OIL MIX – 50:1 RATIO			
US		Metric	
Gas	Oil	Gas	Oil
gal.	fl. oz.	L	cc
1	2.6	5	100
2	5.2	10	200
5	13	25	500

NOTICE

Spilled fuel is a leading cause of hydrocarbon emissions. Some states may require the use of automatic fuel shut-off containers to reduce fuel spillage.

After use - Empty the fuel tank prior to storing the unit. Return unused fuel to an approved fuel storage container.

Storage - Fuel storage laws vary by locality. Contact your local government for the laws affecting your area. As a precaution, store fuel in an approved, airtight container. Store in a well-ventilated, unoccupied building, away from sparks and flames.

NOTICE

Stored fuel ages. Do not mix more fuel than you expect to use in thirty days or ninety days when a fuel stabilizer is added.

NOTICE

Stored two-stroke fuel may separate. Always shake fuel container thoroughly before each use.

NOTICE

Used oil and gasoline, and soiled towels are hazardous waste materials. Disposal laws vary by locality.

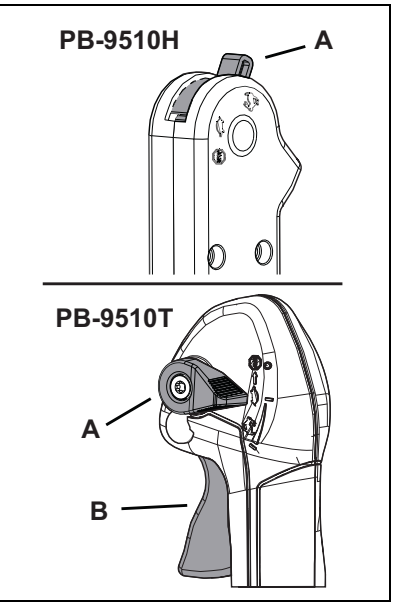
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Starting Cold Engine

PB-9510H only: Rotate spring loaded throttle arm downward to a comfortable operating position.

PB-9510H/T:

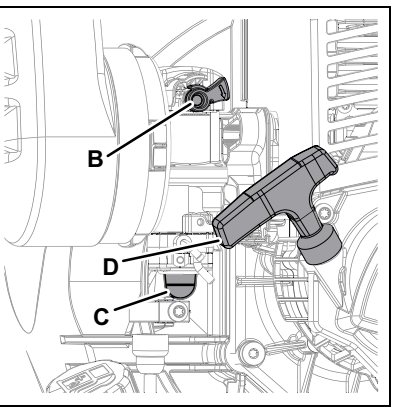
1. Move throttle lever (A) to IDLE position.



2. Rotate choke (B) to COLD START position.
3. Pump purge bulb (C) until fuel is visible. Pump bulb an additional five times.

Note: Use short pulls - only 1/2-2/3 of rope length for starting. Do not allow the rope to snap back in. Always hold the unit firmly.

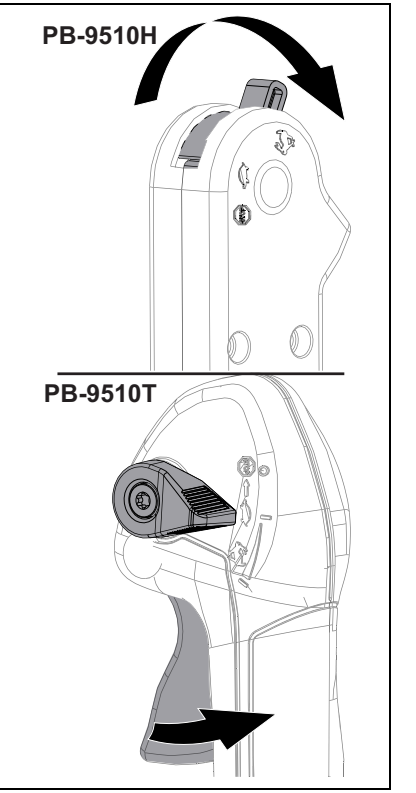
4. Pull recoil starter handle (D) until engine starts, or a maximum of five pulls.



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5. If engine starts and remains running, pull throttle trigger (T model) or advance throttle lever (H model) to automatically return choke to run position, then proceed to engine warm up. If engine starts and dies, proceed to step 6.
6. After engine starts or five pulls, move choke lever back to RUN position, then pull starter handle/rope until engine starts and runs. Allow unit to warm up at idle for several minutes.

Note: If engine does not start with choke in RUN position after five pulls, move choke to COLD START position, and repeat steps 3-6.



NOTICE

Allow engine to warm up for several minutes before use.

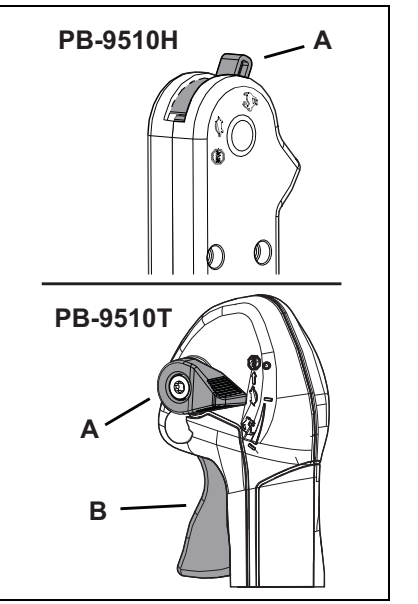
7. After engine warm-up, move throttle lever gradually to increase engine RPM to desired operating speed.

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Starting Warm Engine

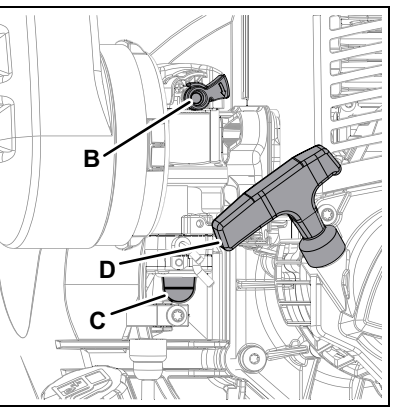
The starting procedure is the same as Cold Start except do not close the choke.

1. Move throttle lever (A) to IDLE position.



2. Pump purge bulb (C) until fuel is visible. Pump bulb an additional five times.
3. Pull recoil starter handle (D) and engine should start. Do not use choke (B).

Note: If engine does not start after five pulls, use starting cold engine procedures.



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Stopping Engine

WARNING

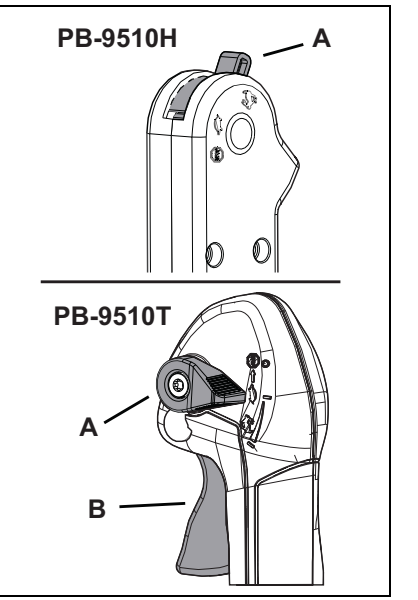
If engine does not stop when stop switch is moved to STOP position, close choke - COLD START position - to stall engine. Have your Authorized Service Dealer repair stop switch before using unit again.

PB-9510H

1. Move throttle lever (A) to IDLE position and allow engine to return to idle before shutting off engine.
2. Move throttle lever (A) to STOP position.

PB-9510T

1. Release throttle trigger. Move Throttle Lever (A) forward to idle position and allow engine to return to idle before shutting off engine.
2. Move throttle lever (A) all the way forward to STOP position.



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Operating Blower

⚠ WARNING

Engine exhaust is HOT, and contains Carbon Monoxide (CO), a poison gas. Breathing CO can cause unconsciousness, serious injury, or death. Exhaust can cause serious burns. Always position unit so that exhaust is directed away from your face and body.

⚠ WARNING

Always wear safety glasses, hearing protection and a face filter mask or serious personal injury may result. Do not point the blower pipe in the direction of people or pets.

NOTICE

Use reduced speed only when performing light-duty tasks or to comply with local noise regulations. Continuous low speed operation may allow fuel/oil residue to build-up on the piston and cause rapid build-up of carbon on the spark arrestor screen, resulting in overheating and engine damage. To reduce harmful build-up, run engine at wide open throttle for at least 5 minutes every hour, and inspect/clean the spark arrestor screen after approximately 40 hours of operation.

Read the Safety Section carefully.

RevShield™ Ignition Coil Function

NOTICE

Operator may notice Wide Open Throttle (WOT) speed oscillating between 8,350 RPM and 6,000 RPM. This speed oscillation is a new function of our RevShield™ ignition coil, this function notifies the operator that air flow through the leaf guard air intake or blower tube is being restricted.

When speed oscillation occurs, remove leaves and debris from leaf guard, inspect blower tubes for blockage or deformation, and repair or replace as necessary. Engine will operate normally after air flow restriction is resolved.

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NOTICE

Avoid engine damage, do not block blower pipe.

Use only during appropriate hours. Contact your local government for the ordinances affecting your area.

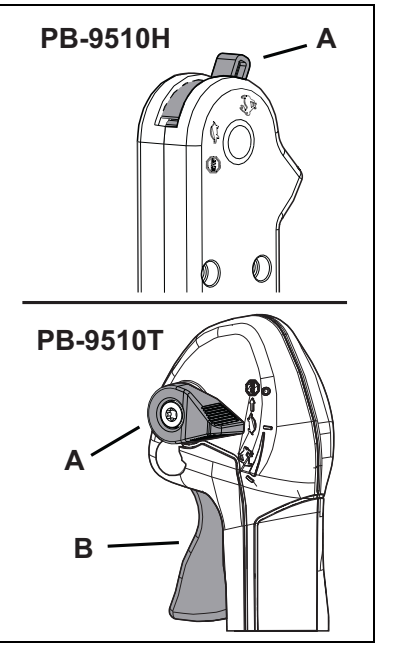
To reduce sound levels, limit the number of pieces of equipment used at any one time.

PB-9510H

1. Allow the engine to warm up at a fast idle for a three minutes.
2. Set engine speed with throttle position lever (A).

PB-9510T

1. Allow the engine to warm up at a fast idle for a three minutes.
2. Control engine speed with throttle trigger (B), or for continuous use, set engine speed with throttle position lever (A).



Use lower speed to blow dry leaves from walks, patios and drives. Use rakes and brooms to loosen debris before blowing.

Additional speed may be necessary to clean grass and leaves from a lawn or flower bed.

Higher speed may be necessary to move gravel, dirt, snow, bottles or cans from a driveway, street, parking lot or stadium.

Always stop unit using stop engine procedure.

Note: Never use a higher speed setting than necessary to perform a task. The higher the engine speed, the louder the blower noise.

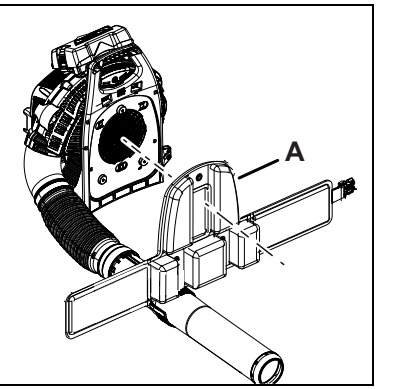
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For Operator Comfort in Cold Weather Operation

NOTICE

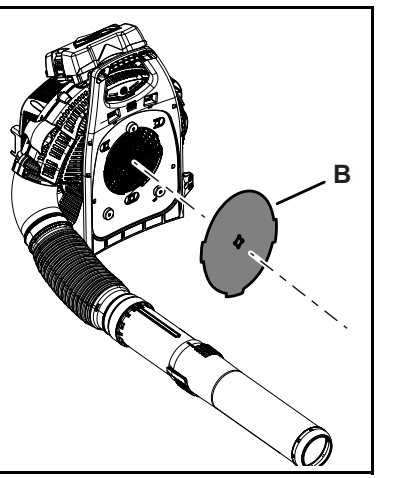
This product should not be used in temperatures below 15° F (-9° C) otherwise damage to the fuel lines may occur.

1. Remove screws from back cushion. Remove back cushion (A) from frame.



2. Install cold weather insert (B) on frame over air intake.
3. Install back cushion (A) to frame over cold weather insert.

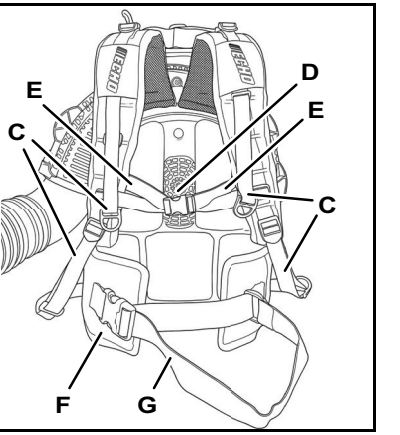
Note: Blower performance may be reduced slightly.



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Adjust Harness

1. Pull straps (C) downward to adjust shoulder straps.
2. Buckle harness limiter strap (D).
3. Adjust limiter strap (E) for comfortable operation.

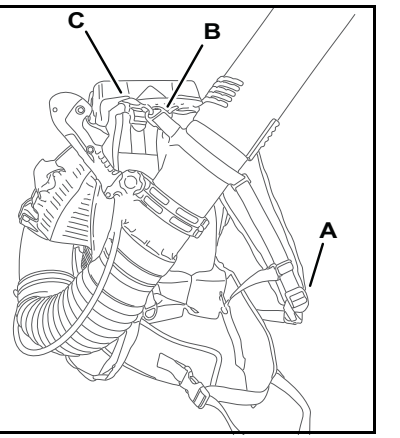


Waist Strap Adjustment

1. Buckle waist strap (F).
2. Adjust waist strap (G) for comfortable operation.

Blower Pipe Storage

1. Loosen shoulder strap by loosening buckle (A).
2. With blower pipe in place connect shoulder strap ring (B) to storage hook (C).



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MAINTENANCE

⚠ WARNING

Moving parts can amputate fingers or cause severe injuries. Keep hands, clothing and loose objects away from all openings. Always stop unit, disconnect spark plug or remove battery, and make sure all moving parts have come to a complete stop before removing obstructions, clearing debris, or servicing unit. Allow the unit to cool before performing maintenance or adjustments. Wear gloves to protect hands from sharp edges and hot surfaces.

⚠ WARNING

Operating a poorly maintained unit can result in serious injuries to operator or bystanders. Always follow all maintenance instructions as written, otherwise serious personal injury can result.

Your unit is designed to provide years of trouble-free service. Perform regular scheduled maintenance. If you are unsure about the task, or are not equipped with the necessary tools, we recommend that you take your unit to an Authorized Service Dealer for maintenance. To help you decide whether you want to do it yourself or have the Authorized Service Dealer do it, each maintenance task has been graded. If a task is not listed, see your Authorized Service Dealer for repairs.

NOTICE

The use of emission control components other than those specifically designed for this unit is a violation of federal law.

Skill Levels

Level 1 = Easy to do. Common tools may be required.

Level 2 = Moderate difficulty. Some specialized tools may be required.

Level 3 = See your Authorized Service Dealer.

Click HERE or go to https://www.echo-usa.com/products/maintenance-kit

or

https://www.shindaiwa-usa.com/you-can.aspx

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Maintenance Intervals

COMPONENT/SYSTEM	MAINTENANCE PROCEDURE	SKILL LEVEL
Daily or Before Use		
Air Filter	Inspect/Clean [1]	**1**
Choke Shutter		
Fuel System	Inspect	
Cooling System	Inspect/Clean	**2**
Recoil Starter Rope	Inspect/Clean[1]	**1**
Screws/Nuts/Bolts	Inspect/Tighten/Replace[1]	
Every Refuel		
Fuel System	Inspect[2]	**1**
Cooling System	Inspect/Clean	**2**
3 Months		
Air Filter	Replace[1]	**1**
Fuel Filter	Inspect[1]	
Fuel Cap Gasket		
Spark Plug	Inspect/Clean/Replace[1]	**2**
Muffler Spark Arrester		
Cylinder Exhaust Port	Inspect/Clean/Remove carbon deposits	
Yearly		
Fuel Filter	Inspect/Replace[1]	**1**
Fuel Cap Gasket	Replace[1]	

Note: Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

[1] Replacement is recommended based on the finding of damage or wear during inspection.

[2] Low evaporative fuel tanks do not require regular maintenance to maintain emission integrity.

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Air Filter

Level 1.

Parts required: Tune-Up Kit.

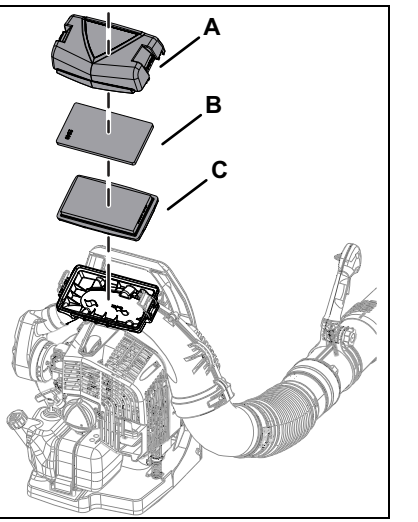
1. Move stop switch to STOP position.
2. Allow unit to cool (if required).
3. Remove spark plug lead from spark plug.
4. Close choke (COLD START position). This prevents dirt from entering the carburetor throat when the air filter is removed. Brush accumulated dirt from air cleaner area.
5. Remove air filter cover (A), foam filter (B), and air filter (C). Brush dirt from inside air filter cover.

   Foam Filter:

   - Clean foam filter (A) in water/ detergent solution and rinse with clean water.
   - Wrap the foam filter in a clean, dry cloth and squeeze (do not wring) dry. Allow to dry completely before reuse. Do not oil.

   Air Filter:

   - Lightly brush debris from air filter (C).
   - Replace filter if it is damaged, very dirty, or the rubber sealing edges are deformed.
   - If filter can be reused, be certain it fits tightly in the air filter cavity, and is installed with the original side out.



6. Assemble components in reverse order.

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Fuel Filter

Level 1.

Parts required: Tune-Up Kit.

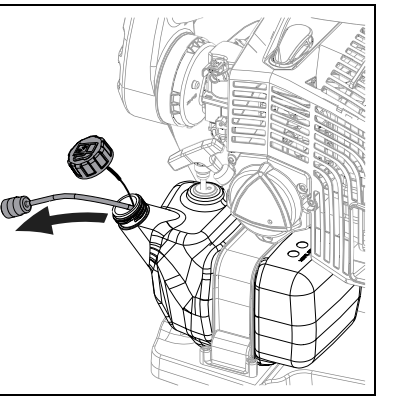
DANGER

Fuel is flammable. Use care when mixing, storing or handling, or serious personal injury can result.

NOTICE

Do not damage fuel line while removing fuel filter from tank.

1. Move stop switch to STOP position.
2. Allow unit to cool (if required).
3. Remove spark plug lead from spark plug.
4. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
5. Pull the fuel filter from the tank.
6. Do not remove the wire coil clamp to remove the fuel filter. Pinch the fuel filter with the fingers on one hand and the fuel line with the other hand.
7. Pull and twist slightly to separate.
8. Install the new filter in reverse order.



Note: Federal EPA regulations require all model year 2012 and later gasoline powered engines produced for sale in the United States to be equipped with a special low permeation fuel supply hose between the carburetor and fuel tank. When servicing model year 2012 and later equipment, only fuel supply hoses certified by EPA can be used to replace the original equipment supply hose. Fines up to $37,500 may be enforced for using an un-certified replacement part.

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Spark Plug

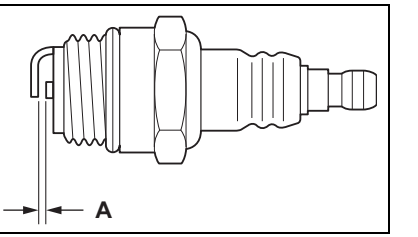
Level 2.

Parts required: Tune-Up Kit

NOTICE

Use only NGK CMR7H spark plug otherwise severe engine damage can occur.

1. Move stop switch to STOP position.
2. Allow unit to cool (if required).
3. Remove spark plug lead from spark plug.
4. Remove spark plug and check for fouling, worn and rounded center electrode.
5. Clean the plug or replace with a new one. Do not sand blast to clean. Remaining sand will damage engine.
6. Adjust spark plug gap (A) to 0.65mm (0.026 in.) by bending outer electrode.



7. Tighten spark plug to 102-153 kgf•cm (86-133 lbf•in).

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Cooling System

Level 2.

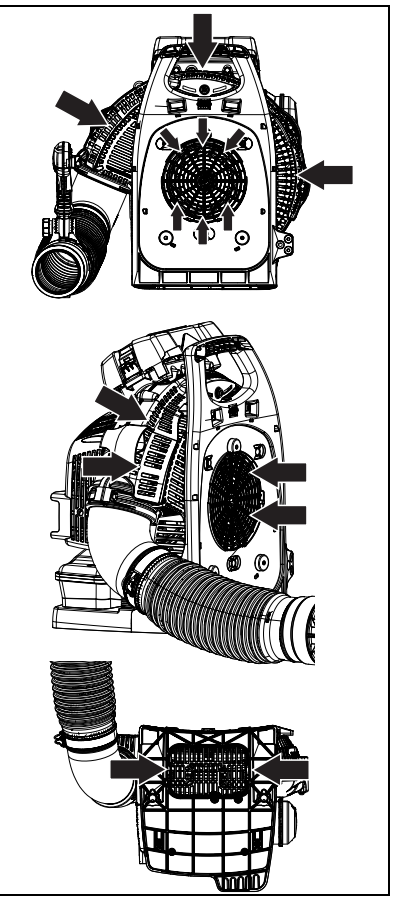
NOTICE

To maintain proper engine operating temperatures, cooling air must pass freely through the cylinder fin area. This flow of air carries combustion heat away from the engine.

Overheating and engine seizure can occur when:

- Air intakes are blocked, preventing cooling air from reaching the cylinder.
- Dust and grass build up on the outside of the cylinder. This build up insulates the engine and prevents the heat from leaving.

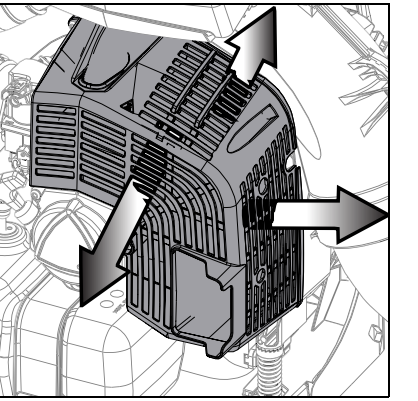
Removal of cooling passage blockages or cleaning of cooling fins is required. Any failure attributed to lack of maintenance is not warranted.



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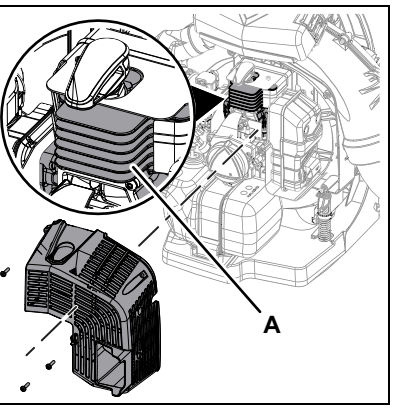
Clear Debris

1. Brush accumulated debris from intake grill and other cooling passages.



Cleaning Cylinder Fins

1. Move stop switch to STOP position.
2. Allow unit to cool (if required).
3. Disconnect spark plug lead from spark plug.
4. Remove engine cover.
5. Clean cylinder fins (A) to allow cooling air to pass freely.
6. Install engine cover.
7. Connect spark plug lead.



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Exhaust System

Spark Arrester Screen

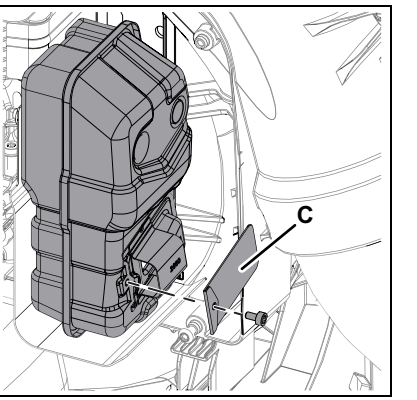
Level 2.

Parts required: Spark Arrester Screen

NOTICE

Carbon deposits in muffler will cause a drop in engine output and overheating. Spark arrester screen must be checked periodically.

1. Move stop switch to STOP position.
2. Allow unit to cool (if required).
3. Disconnect spark plug lead from spark plug.
4. Remove engine cover.
5. Remove spark arrester screen (C) from muffler. Replace screen if plugged with carbon deposits.



Note: When cleaning carbon deposits, be careful not to damage the catalytic element inside muffler.

6. Install spark arrester screen.
7. Install engine cover.
8. Connect spark plug lead.

Exhaust Port Cleaning

Level 2.

Parts required: Muffler Gasket (as required).

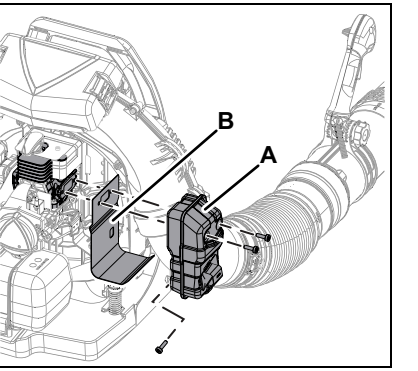
NOTICE

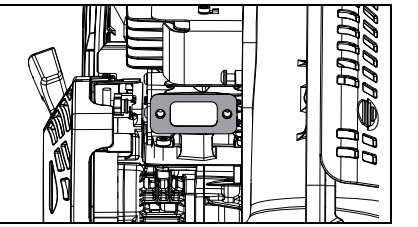
Never use a metal tool to scrape carbon from the exhaust port. Do not scratch the cylinder or piston when cleaning the exhaust port. Do not allow carbon particles to enter the cylinder.

1. Move stop switch to STOP position.
2. Allow unit to cool (if required).

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3. Remove spark plug lead from spark plug, and remove engine cover.
4. Place piston at top dead center. Remove muffler (A) and muffler gasket (B).





5. Use a wood or plastic scraping tool to clean deposits from cylinder exhaust port.
6. Inspect muffler gasket, and replace if damaged.
7. Install muffler gasket and muffler.
8. Tighten muffler mounting bolts (or nuts) to 110-150 kgf•cm (95-130 lbf•in).
9. Install engine cover and attach spark plug lead.
10. Start engine, and warm to operating temperature.
11. Stop engine, and re-tighten mounting bolts (or nuts) to specifications.

Carburetor Adjustment

Engine Break-In

New engines must be operated a minimum duration of two tanks of fuel break-in before carburetor adjustments can be made. During the break-in period your engine performance will increase and exhaust emissions will stabilize. Idle speed can be adjusted as required.

High Altitude Operation

This engine has been factory adjusted to maintain satisfactory starting, emission, and durability performance up to 335 m (1,100 ft.) above sea level. To maintain proper engine operation and emission compliance above 335 m (1,100 ft.) ASL the carburetor may need to be adjusted by an authorized service dealer.

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NOTICE

If the engine is adjusted for operation above 335 m (1,100 ft.) above sea level, the carburetor must be re-adjusted when operating the engine below 335 m (1,100 ft.) above sea level, otherwise severe engine damage may result.

Level 2.

Parts required: None.

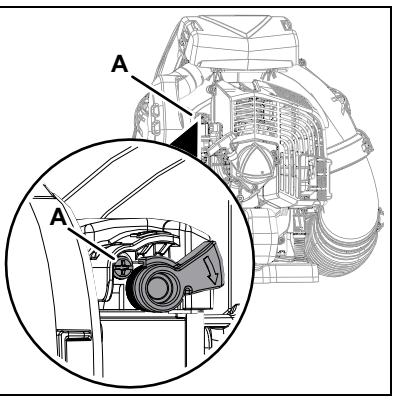
Note: Every unit is run at the factory and the carburetor is set in compliance with emission regulations. Carburetor adjustments, other than idle speed, must be performed by an authorized dealer.

Idle Adjustment

Before adjustment make sure that:

- Air filter is clean and properly installed.
- Spark arrester screen and muffler are free of carbon.
- Blower pipes are installed.

1. Start engine, run at idle for 1 minute.
2. Complete warm up by running at full throttle for 5 minutes, operating choke twice to clear air from carburetor chambers.
3. Check idle speed and reset if necessary. If a tachometer is available, idle speed screw (A) should be set to the specifications found on “Specifications” page of this manual. Turn idle screw (A) clockwise to increase idle speed; counter clockwise to decrease idle speed.



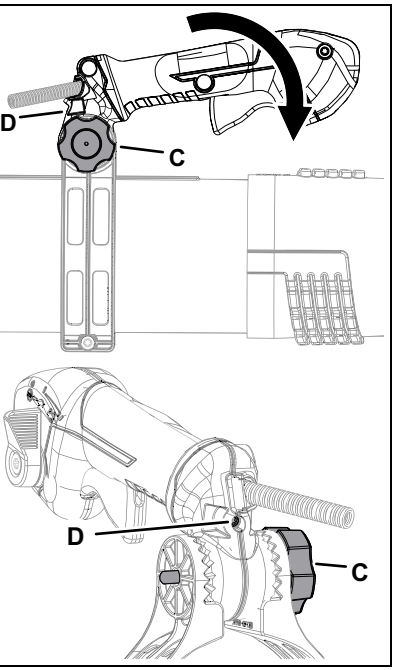
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Throttle Cable Adjustment - PB-9510T

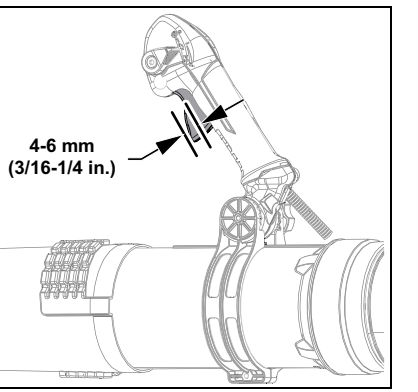
Level 1

If engine idle speed changes when blower pipe is moved, or engine will not reach full wide open throttle speed, adjust throttle cable.

1. Loosen handle adjustment knob (C) and tilt tube throttle handle forward to expose adjustment screw (D).



2. Turn adjustment screw until throttle trigger free play is 4-6 mm (3/16-1/4 in.).
3. After adjustment, squeeze and release throttle trigger several times to verify carburetor throttle shaft has full range of movement from idle to wide open throttle positions.



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TROUBLESHOOTING

DANGER

Fuel vapors are extremely flammable and may cause fire and/or explosion. Never test for ignition spark by grounding spark plug near cylinder plug hole, otherwise serious personal injury may result.

ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	**Check**	**Status**	**Cause**	**Remedy**
Engine starts hard or engine does not start.	Fuel at carburetor.	No fuel at carburetor.	Fuel strainer or fuel line obstructed.	Clean or replace. See your Authorized Service Dealer.
	Fuel at cylinder.	No fuel at cylinder.	Carburetor	See your Authorized Service Dealer.
		Muffler wet with fuel.	Fuel mixture too rich.	Open choke. Clean or replace air filter. Adjust carburetor. See your Authorized Service Dealer.
	Spark at end of plug wire.	No spark.	Ignition at STOP position. Electrical problem. Interlock switch.	Move ignition away from STOP position. See your Authorized Service Dealer.
	Spark at plug.		Incorrect gap. Covered with carbon. Fouled with fuel. Plug defective.	Adjust to 0.65 mm (0.026 in.) Clean or replace plug.

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ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	**Check**	**Status**	**Cause**	**Remedy**
Engine runs, but dies or engine does not accelerate properly.	Air filter	Air filter dirty.	Normal wear.	Clean or replace.
	Fuel filter	Fuel filter dirty.	Contaminants or residue in fuel.	Replace filter or replace fuel.
	Fuel vent	Fuel vent plugged.	Contaminated fuel.	Clean or replace.
	Spark plug	Plug dirty or worn.	Normal wear.	Clean and adjust or replace.
	Carburetor	Improper adjustment.	Vibration	Adjust
	Cooling system	Cooling system dirty or plugged.	Extended operation in dirty or dusty locations.	Clean
	Spark arrester screen	Spark arrester screen plugged.	Normal wear.	Replace
Engine does not crank.	-		Internal engine problem.	See your Authorized Service Dealer.
Engine RPM oscillates at wide open throttle.	Air flow through leaf guard and blower tubes.	Air flow is being restricted.	Obstruction in leaf guard or blower pipe restricting air flow.	Remove leaves and debris from leaf guard. Inspect blower tubes for blockage or deformation, and repair or replace as Necessary.

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STORAGE

Transportation

- Shut engine off before transporting.
- Secure unit to prevent fuel spillage and damage.

Short-Term Storage

- Shut engine off.
- Store unit in a dry, dust-free place, out of the reach of children.

Long-Term Storage (Over 30 Days)

⚠ DANGER

Explosion hazard. Fuel fumes can accumulate and explode if exposed to an open flame or spark. Store in a well ventilated area.

Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance.

1. Move stop switch to STOP position.
2. Allow engine to cool.
3. Clean exterior of unit.
4. Perform required maintenance.
5. Tighten all fasteners.

⚠ DANGER

Fire hazard. Fuel is flammable. Burning fuel will cause bodily injury or death. Wear protective equipment. Use care when mixing, storing or handling.

⚠ WARNING

Burn hazard. During operation the muffler or catalytic muffler and surrounding cover become hot. Always keep exhaust area clear of flammable debris during transportation or when storing, otherwise serious property damage or personal injury may result.

6. Drain fuel tank completely.

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7. Press purge bulb six to seven times to remove remaining fuel from carburetor then drain tank again.
8. Close choke, start and run the engine until it stops due to lack of fuel.
9. Allow engine to cool.
10. Remove spark plug lead from spark plug.
11. Remove spark plug from cylinder.
12. Pour 7 mL (0.25 fl. oz.) of two-stroke engine oil into cylinder through spark plug hole.
13. Pull recoil starter handle two to three times to distribute oil inside engine.
14. Observe piston location through the spark plug hole. Pull the recoil handle slowly until the piston reaches the top of its travel and leave it there.
15. Install spark plug.
16. Connect spark plug lead to spark plug.
17. Store unit in a dry, dust-free place, out of the reach of children.

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SPECIFICATIONS

MODEL	PB-9510H	PB-9510T
Length (with pipes)	1,546 mm (60.9 in.)	
Width (with pipes)	644 mm (25.4 in.)	612 mm (24.1 in.)
Height (with pipes)	557 mm (21.9 in.)	
Weight (dry) (with pipes)	12.8 kg (28.2 lb.)	12.6 kg (27.8 lb.)
Engine Type	Air-cooled, two-stroke, single-cylinder gasoline engine	
Bore	53 mm (2.1 in.)	
Stroke	36.2 mm (1.4 in.)	
Displacement	79.9 cc (4.9 in^3)	
Exhaust	Spark arrester muffler or spark arrester muffler with catalyst	
Carburetor	Diaphragm with purge pump	
Ignition System	Flywheel magneto, capacitor discharge ignition type	
Spark Plug	NGK CMR7H – Gap 0.65 mm (0.026 in.)	
Fuel	Mixed (gasoline and two-stroke oil)	
Gasoline/Oil Ratio	50:1	
Gasoline	Use 89 Octane unleaded. Do not use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Do not use alternative fuels such as E-15 or E-85.	
Oil	ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345- FD, two-stroke, air-cooled engine oil.	
Fuel Tank Capacity	2.96 L (100.1 US fl. oz.)	
Starter System	Automatic Recoil Starter, centrifugal type	
Idle Speed	2,500 RPM	
Wide Open Throttle Speed	7,800 RPM	
Maximum Air Speed (with pipes)	102.8 m/sec (230 mph)	
Air Volume	33.98 m^3/min. (2038.8 m^3/hr.)	

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MODEL	PB-9510H	PB-9510T
Sound Level at 15.25 m (50 ft.) dB(A) scale per ANSI B175.2	81.7 dB(A)	

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PRODUCT REGISTRATION

Thank you for choosing ECHO Power Equipment

Please go to http://www.echo-usa.com/Warranty/Register-Your-ECHO to register your new product on-line. It's ***FAST*** and ***EASY***!
NOTE: Your information will never be sold or misused by ECHO Incorporated. Registering your purchase enables us to contact you in the unlikely event of a service update or product recall, and verifies your ownership for warranty consideration.

If you do not have access to the Internet, you can complete the form below and mail to:

ECHO Incorporated, Product Registration, PO Box 1139,
Lake Zurich, IL 60047.

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PRODUCT REGISTRATION CARD : TARJETA DE REGISTRO : CARTE D'ENREGISTREMENT DU PRODUIT

ONLINE OPTION: Register online and save a stamp! You will be alerted of product updates and/or be sent new ECHO product information and special offers. Simply go to: **www.echo-usa.com**

OPCIÓN POR INTERNET: ¡Registrese en la pagina web y ahorre una estampilla! Le alertarán sobre actualizaciones del producto y/o se le enviara información sobre los nuevos productos ECHO y las ofertas especiales. Simplemente visite: **www.echo-usa.com**

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Please Print : Por Favor Enscriba Con Letra De Molde : En Lettre Carré S.V.P.

Confidential: Information provided will not be shared or sold

Purchaser's Name : Nombre del Comprador : Nom de l'acheteur

Address : Dirección : Adresse

City : Ciudad : Ville | *State : Estado : Province* | *Zip Code : Código Postal : Code Postal*

E-Mail Address : Dirección De Correo Electrónico : Courrier Électronique

Phone Number : Número De Teléfono : Téléphone | *Date of Purchase : Fecha de la Compra : Date de l'achat*

Where Purchased : Nombre del Almacén donde fue Comprado : Lieu d'achat

Model Number : Numero del Modelo : No. de modéle | *Serial Number : Numero de Serie : No. de série*

Registering your purchase enables us to contact you in the unlikely event of a service update or product recall and verifies your ownership in the event of loss. : El registrar su compra nos permite estar en contacto con usted en caso de cualquier evento como el aviso de tiempo de servicio o la revocación del producto y verificación de propiedad en caso de robo o pérdida. : L'enregistrement de votre achat nous permettra de vous contacter dans le cas improbable de modifications des instructions d'entretien ou de rappel du produit et vérifier que vous êtes le propriétaire en cas de vol ou de perte.

Primary use of tool: ☐ Professional ☐ Homeowner ☐ Rental Equip.
Uso primario de la herramienta: ☐ Profesional ☐ Dueño de casa ☐ Alquiler
Usage principal : ☐ Professionnel ☐ Residential ☐ Location

Do you wish to receive periodic ECHO product information and special offers by e-mail? ☐ Yes ☐ No
¿Desea usted recibir información periódica y ofertas especiales por correo electronico sobre el producto ECHO? ☐ Yes ☐ No
Souhaitez-vous recevoir périodiquement de l'information sur les produits ECHO et les offres spéciales par courrier électronique ? ☐ Oui ☐ Non

Did you visit the ECHO website before purchasing your product?
☐ Yes ☐ No
Visitó usted la pagina web ECHO antes de comprar su producto?
☐ Si ☐ No
Avez-vous visité le site d'ECHO avant de procurer votre produit?
☐ Oui ☐ Non

What factor(s) most influenced your purchase?

☐ Performance	☐ Price	☐ Dealer
☐ Reliability	☐ Prior Experience	☐ Quality
☐ Friend/Family	☐ Brand	☐ Warranty

¿Qué factor(es) influenció más en su compra?

☐ Funcionamiento	☐ Precio	☐ Distribuidor
☐ Confiabilidad	☐ Experiencia Anterior	☐ Calidad
☐ Amigo/Familia	☐ Marca	☐ Garantía

Quel facteur (facteurs) vous a influencé le plus?

☐ Performance	☐ Prix	☐ Marchand
☐ Fiabilité	☐ Expérience	☐ Qualité
☐ Ami/Famille	☐ Marque	☐ Garantie

ECHO INC., 400 Oakwood Rd., Lake Zurich, IL 60047
1.800.432.ECHO WWW.ECHO-USA.COM

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ECHO INCORPORATED
400 Oakwood Road
Lake Zurich, IL 60047
www.echo-usa.com