



Operator's Manual LM-2115SP Lawn Mower



WARNING

Cancer and Reproductive Harm
www.P65Warnings.ca.gov



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-002 / NMB-002

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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>



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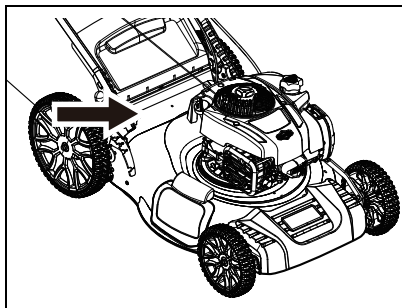
<https://www.shindaiwa-usa.com/technical-documentation>



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).

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.

International Symbols

Symbol	Description	Symbol	Description
	Warning, see Operator's Manual.		Beware of thrown objects.
	Wear eye protection.		Avoid steep slopes.
	Wear hand and foot protection.		Look behind while backing up.
	Safety/Alert		Keep bystanders away.
	Hot surface		Maintain safety devices.
	Do not allow flames or sparks near fuel.		Disconnect spark plug before performing service.
	Do not smoke near fuel.		Keep hands and feet away from blade.
	Rotating cutting attachment		Self-propel drive speed

Note: Not all symbols will appear on your unit.

Lawn Mower Safety Warnings

WARNING

Read all safety warnings, instructions, illustrations, and specifications provided with this lawn mower. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Save all warnings and instructions for future reference.

General Safety

- Operators must read, understand, and follow all instructions and warnings in this manual and on the lawn mower, engine, and attachments.
- For more information about engine preparation and operation refer to engine manual.
- Only allow operators who are responsible, trained, and physically capable to operate lawn mower.
- Do not operate under the influence of alcohol or drugs.
- Do not use the lawn mower as a drive unit for other work tools or toolkits of any kind.
- Avoid mowing wet grass. Poor footing could cause a slip and fall accident.
- Do not operate under any conditions where traction, turning, or stability is in question. Tires could slide even if stopped.
- Do not carry passengers.
- Keep bystanders away.
- Follow the manufacture's recommendation for wheel weights or counterweights.
- All nuts and bolts must be checked periodically for correct tightness.
- After prolonged use, especially in sandy soil conditions, the blade will become worn and lose some of the original shape. Cutting efficiently will be reduced and the blade should be replaced. Replace with an approved factory replacement blade only.

To Reduce the Risk of Bodily Injury, Do Not Use the Lawn Mower to:

- Trim bushes, hedges, or shrubs.
- Cut scaling vegetation, planted roofs, or balcony grown grass.
- Clean dirt and debris from walkways.
- Chop up tree or hedge clippings.
- Level out high areas such as molehills.

Fuel and Fire Hazards

- Use care handling gasoline and other fuels. They are flammable and the vapors are explosive.
- Always extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use an approved fuel container.
- Do not remove fuel cap or add fuel with the engine running or while hot.
- Do not refuel indoors or in enclosed spaces.
- Allow lawn mower to cool before storing.

WARNING

Do not refuel or store the lawn mower and fuel containers near an open flame, pilot light, or sparks; or near any possible source which may cause these, such as power tools, a water heater, space heater, furnace, clothes dryer, etc.

- If fuel is spilled, avoid creating any source of ignition. Do not attempt to start the engine until fuel vapors have dissipated.
- To reduce risk of fire, keep lawn mower free of grass, leaves or other debris buildup; clean up oil or fuel spillage and remove any fuel soaked debris.

Before Operating

- Wear appropriate personal protective equipment such as safety glasses, hearing protection, and footwear.
- Clear the area of any objects (e.g., stones, sticks, toys, etc) which could be thrown by the lawn mower or interfere with operation.
- Keep the area clear of bystanders, including children and pets. Stop the lawn mower if anyone enters the area.
- Ensure the entire grass catcher bag, discharge chute, or other safety devices are in place and functioning properly before operating the lawn mower. Check these parts frequently for signs of wear or deterioration and replace as needed.

During Operation

- Only operate in well ventilated areas. Exhaust gases contain carbon monoxide, a deadly poison.
- Only operate in daylight or with other adequate lighting.
- Avoid holes, ruts, bumps, rocks, or other hidden hazards. Uneven terrain could overturn lawn mower, or cause operator to lose balance or footing.

- Do not put hands or feet near rotating parts or under the lawn mower. Keep clear of discharge opening at all times.
- Do not direct discharge material towards anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back towards the operator or others.
- Stop the blade when crossing gravel surfaces.
- Do not leave a running lawn mower unattended. Always stop the lawn mower on level ground and turn off the engine.
- Do not mow in reverse unless absolutely necessary. If you must mow in reverse, always look down and behind you-both before and while moving backwards-for small children, pets, or obstacles.
- If you strike a foreign object, stop and inspect the lawn mower. Repair if necessary before restarting.
- Operation of this lawn mower may create sparks that can start fires around dry vegetation. A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements. If required, contact engine manufacturer to obtain optional spark arrestor.
- This lawn mower is capable of amputating hands and feet and throwing objects. Failure to observe all safety instructions could result in serious injury or death.

Operating on Slopes

- Slopes are a major factor related to accidents. Operation on slopes requires extra caution.
- Mow across the face of slopes: never up and down. Exercise caution when changing direction on slopes.
- Use caution while operating near drop-offs.
- Do not operate lawn mower under any condition where traction, turning, or stability is in question. Tires could slide even if stopped.
- Always keep lawn mower in gear when going down slopes. Do not coast downhill.
- Do not start or stop mowing on slopes. Do not make sudden changes in speed or direction. Make turns slowly and gradually.
- Use care while operating lawn mower with a grass catcher bag or other attachment(s). They can affect the stability of the mower.

Children

- Children are often attracted to the lawn mower and mowing activity. Death or severe injury can occur if the operator is not alert to the presence of children.
- Never assume that children will remain where you last saw them.

- Keep children out of the area and under the watchful care of a responsible adult other than the operator.

Hauling

- Use full-width ramps for loading and unloading lawn mower.

Service

- Disconnect the spark plug lead from the spark plug before making any repairs.
- Keep lawn mower in good working order. Replace worn or damaged parts.
- Check grass catcher bag components and the discharge chute frequently and replace with manufacturer's recommended parts, when necessary.
- Use caution when servicing the blade. Wrap blade or wear gloves. Replace damaged blade. Do not repair or alter blades.
- Keep all nuts and bolts tight to ensure lawn mower is in safe working condition.
- Never remove or tamper with any safety devices. Check their proper operation regularly. Never do anything to interfere with the function of a safety device or to reduce the protection offered by the safety device.
- Never attempt to make any adjustments or repairs while engine is running. Disconnect the spark plug lead from the spark plug to prevent unintended starting.

WARNING

⚠ **WARNING**

⚠ **ADVERTENCIA**

⚠ **AVERTISSEMENT**

TO AVOID SERIOUS INJURY OR DEATH, FOLLOW ALL INSTRUCTIONS IN THE OPERATOR'S MANUAL. KEEP SAFETY DEVICES (GRASS CATCHER, TRAILING SHIELD, GUARD, ETC.) IN PLACE AND WORKING. IF DAMAGED, REPLACE IMMEDIATELY. DO NOT OPEN OR REMOVE SAFETY SHIELDS WHILE THE ENGINE IS RUNNING. USE EXTRA CAUTION ON SLOPES. DO NOT MOW ON SLOPES GREATER THAN 15°. MOW ACROSS SLOPES UP AND DOWN, LOOK DOWN AND BEHIND BEFORE AND WHILE MOVING BACKWARDS. OBJECTS THROWN BY BLADE CAN CAUSE SERIOUS INJURY. INSPECT AREA AND REMOVE DEBRIS BEFORE MOWING. KEEP ALL BYSTANDERS AWAY WHILE MOWING. WEAR EYE PROTECTION. DISCONNECT THE SPARK PLUG BEFORE PERFORMING ANY SERVICE ON THE MACHINE.

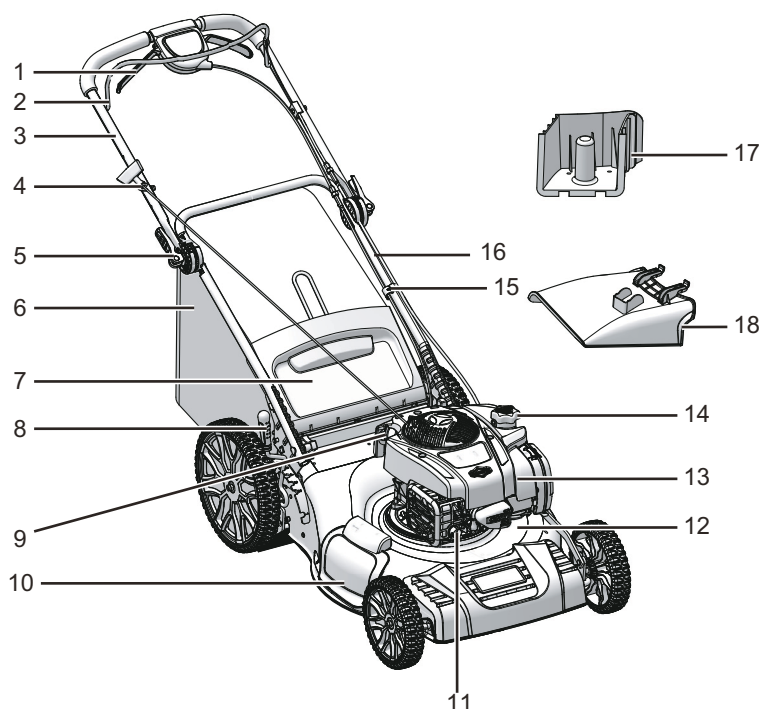
PARA EVITAR LESIONES GRAVES O LA MUERTE, SIGA TODAS LAS INSTRUCCIONES DEL MANUAL DEL OPERADOR. MANTENGALO LOS DISPOSITIVOS DE SEGURIDAD (RECOLECTOR DE CÉSPED, PROTECCIÓN TRASERA, PROTECCIÓN, ETC.) EN SU LUGAR Y FUNCIONANDO. SI ESTÁN DAÑADOS, REEMPLÁZELOS INMEDIATAMENTE. NO ARRANQUE LAS PROTECCIONES DE SEGURIDAD MIENTRAS EL MOTOR ESTE EN MARCHA. TENGA EXTRA PRECAUCIÓN EN PENDIENTES. NO CORTE EL CÉSPED EN PENDIENTES DE MÁS DE 15°. CORTE EL CÉSPED DE FORMA TRANSVERSAL. NUNCA DE ARRIBA A ABAJO, NUNCA HACIA ATRÁS Y NUNCA HACIA ADELANTES Y MIENTRAS SE MUEVE HACIA ATRÁS, LOS OBJETOS LANZADOS POR LA CUCHILLA PUEDEN CAUSAR LESIONES GRAVES. INSPECCIONE EL ÁREA Y RETIRE LOS DEBRIS ANTES DE CORTAR EL CÉSPED. MANTENGALO TODOS LOS ESPECTADORES ALEJADOS MIENTRAS CORTE EL CÉSPED. USE PROTECCIÓN PARA LOS OJOS. DESCONÉCTE LA BUJÍA ANTES DE REALIZAR CUALQUIER MANTENIMIENTO EN LA MÁQUINA.

POUR ÉVITER DES BLESSURES GRAVES OU LA MORT, SUIVEZ TOUTES LES INSTRUCTIONS DU MANUEL D'UTILISATION. MAINTENEZ LES DISPOSITIFS DE SÉCURITÉ (BAC À HERBE, DÉFLECTEUR, PROTECTION, ETC.) EN PLACE ET EN FONCTIONNEMENT. S'ils sont endommagés, remplacez-les immédiatement. N'ouvrez pas et ne retirez pas les déflecteurs de sécurité pendant que le moteur tourne. Soyez très prudent sur les pentes. Ne tonifiez pas sur des pentes supérieures à 15°. Tondez en travers, jamais de haut en bas, regardez vers le bas et derrière avant et pendant que vous reculez. Les objets projetés par la lame peuvent causer des blessures graves. Inspectez la zone et éliminez les débris avant de tondeur. Tenez tous les spectateurs à l'écart pendant la tonde. Portez des lunettes de protection, débranchez la bougie d'allumage avant d'effectuer toute intervention sur la machine.

CAN ICES-002/NMB-002

DESCRIPTION

Compare the illustrations to your lawn mower to familiarize yourself with the location of the various controls and adjustments.



1. Self-propel control handle
2. Brake control handle
3. Upper handle
4. Starter handle
5. Handlebar height adjustment
6. Grass catcher bag
7. Rear cover
8. Cutting height adjustment lever
9. Engine oil cap with dipstick
10. Side-discharge
11. Muffler
12. Lawn mower deck
13. Air filter
14. Fuel tank cap
15. Cable clamp
16. Lower handle
17. Mulching plug
18. Side-discharge chute

CONTENTS

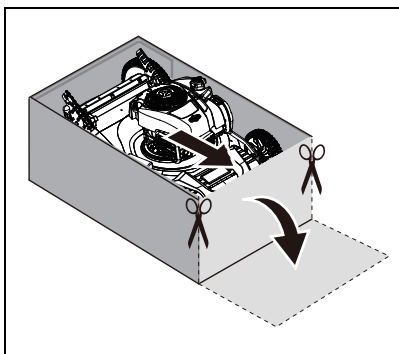
- 1 Lawn mower
- 1 Lower handle
- 1 Upper Handle
- 1 Hardware bag*
- 1 Side discharge chute
- 1 Grass catcher bag
- 1 Bottle of engine oil
- 1 Mower Operator's Manual
- 1 Engine Operator's Manual

* Hardware bag includes: 1 - cable clamp, 2 - arc-head bolts, 2 - square-neck bolts, 2 - quick clip knobs, and 2 - fixing knobs.

This lawn mower is shipped without gas or oil in the engine. The ECHO product you purchased has been factory pre-assembled for your convenience. Due to packaging restrictions, some assembly may be necessary. To ensure safe and proper operation, all parts and hardware must be assembled as instructed using appropriate tools to ensure proper tightness. 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.

Remove Lawn Mower from Box

1. Remove loose parts included with mower.
2. Cut down two end corners of box (1) and lay end panel down flat
3. Roll lawnmower out of box (2) and check box thoroughly for additional loose parts.

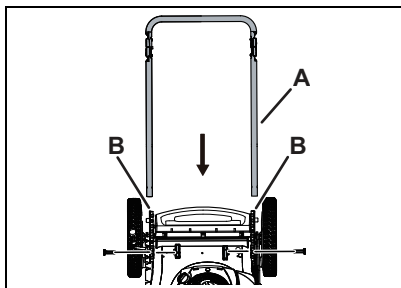


ASSEMBLY

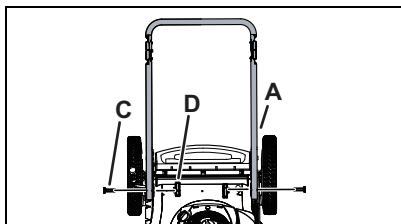
Install Handle**NOTICE**

Unfold upper handle carefully to avoid pinching or damaging control cables. Control cables must be routed above lower handle during assembly.

1. Set the cutting height to the highest position, then insert lower handle (A) into the side brackets (B).

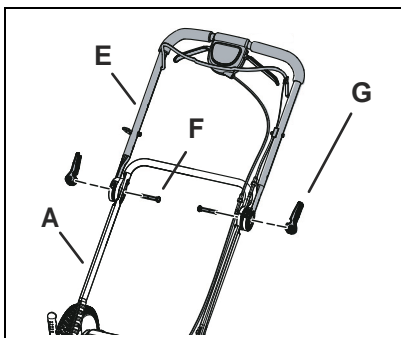


2. Secure lower handle (A) to brackets with arc-head bolts (C) and fixing knobs (D), as shown. Ensure control cables are routed above lower handle.

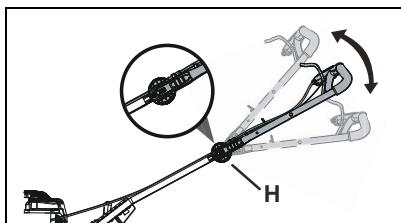


Note: Fixing knobs must be placed as shown, on inside of brackets.

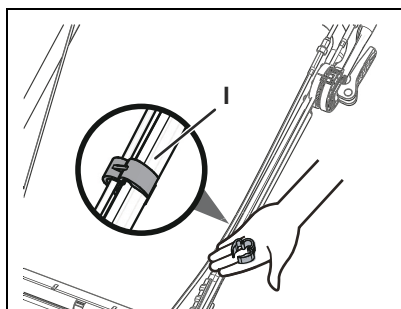
3. Attach upper handle (E) to lower handle (A) with square-neck bolts (F) and quick clip knobs (G) as shown.



- The height of the handlebar can be adjusted by rotating the upper handle at height-adjust block (H), make sure the arrows are aligned to the same position on both height-adjust blocks.



- Insert both cables into the control-cable keeper (I) and push the control-cable keeper (I) onto the left side of the upper handle (E) until it clicks into place.



Note: Tighten all fixing knobs (D).

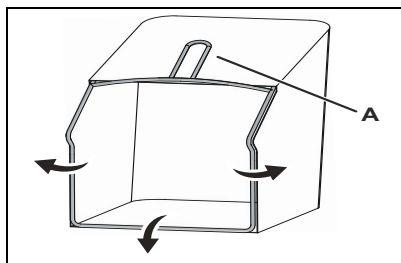
Lawn Mower Operating Modes

This lawn mower has three operating modes: rear bagging, mulching, and side discharging. Each mode requires different accessories. See table for accessory usage by mode

Lawn Mower Mode	Mulching Plug	Grass Bag	Side Discharge Chute
Rear Bagging		X	
Mulching	X		
Side Discharging	X		X

Assemble Grass Catcher Bag

- Grass catcher bag comes partially assembled. Ensure frame handle (A) is outside of bag.
- Slip the vinyl bindings from inside over the frame.

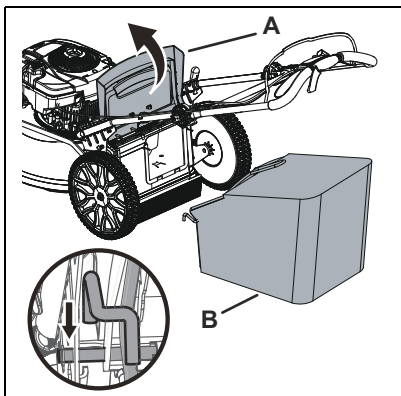


Install Grass Catcher Bag

NOTICE

Ensure both side-discharge chute and mulching plug are removed from lawn mower when installing grass catcher bag.

1. Lift rear cover (A) ensure mulch plug is removed, install grass catcher bag (B).
2. Release rear cover to secure grass catcher bag in position.



Install Mulching Plug

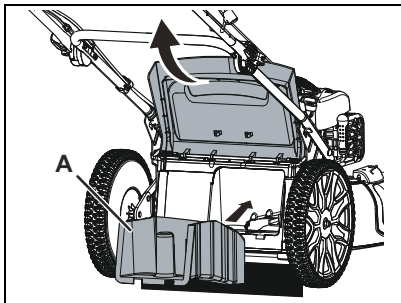
! WARNING

Install mulching plug to recycle lawn clippings. Failure to do so allows objects to be thrown towards you or bystanders and contact with the blade could occur. Thrown objects or blade contact can cause serious injury or death.

NOTICE

Ensure side-discharge chute is removed from lawn mower when installing mulching plug.

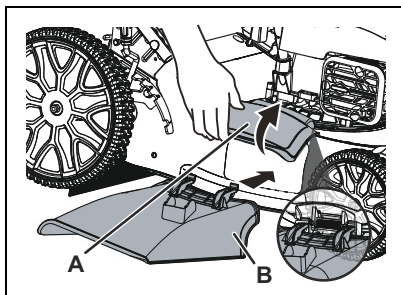
1. Remove grass catcher bag.
2. Lift rear cover.
3. Push mulching plug (A) into discharge chute until it locks into position.
4. Lower rear cover.



Install Side-Discharge Chute**NOTICE**

Ensure that grass catcher bag is removed from lawn mower, and mulching plug is installed before using side discharge chute.

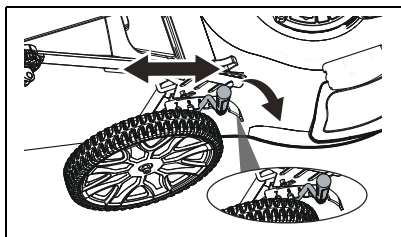
1. Lift side-discharge deflector (A).
2. Install side-discharge chute (B) under deflector.
3. Release side-discharge deflector (A).

**Adjust Cutting Height****! WARNING**

Contact with a moving blade can cause severe personal injury. Stop engine and ensure blade has come to a complete stop before adjusting height.

Adjust cutting height to suit lawn requirements. The middle position is suitable for most lawns.

1. Blade height can be adjusted to seven positions, from 32-95 mm (1.25-3.75 in.).
2. To change cutting height, pull height adjustment lever away from lawn mower.
3. Move the lever up or down to the desired position, release lever to lock wheels in position.



BEFORE STARTING ENGINE

Check Engine Oil**NOTICE**

Running engine without sufficient oil will cause damage to engine. Do not overfill engine with oil, or it will smoke heavily from the muffler on startup.

NOTICE

Check oil level before each use. Add oil if needed. Fill to full line on dipstick.

The Briggs & Stratton EXi625 engine on this lawn mower has a special Check & Add™ feature. The oil never needs to be changed. Before each use check oil level and add additional oil if oil level is not within the min-max indicator marks on the dipstick.

1. Ensure lawnmower is level.
2. Remove oil dipstick from oil fill spout and wipe with clean cloth.
3. Install and tighten dipstick.
4. Remove dipstick and check oil level. Correct oil level is at the top of max indicator mark on dipstick.
5. Slowly pour oil into engine oil fill spout. Do not overfill. After adding oil, wait one minute and then check oil level.
6. Install and tighten dipstick.

Fuel **DANGER**

Fuel is flammable. Use extreme care when 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/containers may be under pressure. Always loosen fuel caps slowly allowing pressure to equalize.***
- ***Do not 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. 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.

 CAUTION

Wipe off any spilled oil or fuel. Do not store, spill, or use gasoline near an open flame.

- *Fill fuel tank to bottom of tank filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Gasoline with up to 10% ethanol "E10 rating" is acceptable.*
- *Do not use gasoline with an ethanol rating higher than E10 in your lawn mower. Doing so could cause damage to your mower's engine.*
- *Purchase gasoline in quantities that can be used within 30 days to assure fuel freshness.*
- *Do not mix oil with gasoline.*

Alcohol blended fuels, called gasohol, ethanol, or methanol, can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Empty the fuel tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. Never use engine or carburetor cleaner products or permanent damage may occur.

OPERATION

Starting Engine

WARNING

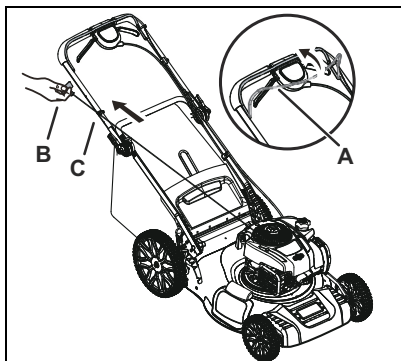
Blades and other rotating parts can cause serious personal injury. Start engine according to instructions, on a level surface free of grass and obstacles. Keep hands and feet away from blade and other rotating parts, and do not stand in front of discharge chute.

Note: Engine is equipped with an automatic choke system. No priming or choking is required before starting lawn mower.

1. Ensure spark plug lead is attached to spark plug.
2. Engage brake control bar (A) by moving towards upper handle.

Note: Do not engage self-propel control handle when starting engine.

3. Pull starter handle (B) slowly until you feel resistance, then pull quickly.
4. Once engine is running, insert starter rope (B) into rope guide (C).

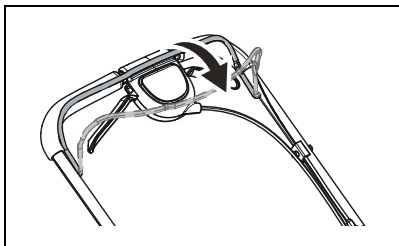


Stopping Engine

WARNING

The blade continues to rotate for a few seconds after engine is shut off. Contact with a moving blade can cause severe personal injury. Avoid all contact with rotating blade.

1. Release brake control handle to stop engine and blade.
2. Disconnect spark plug lead to prevent accidental starting while equipment is unattended.

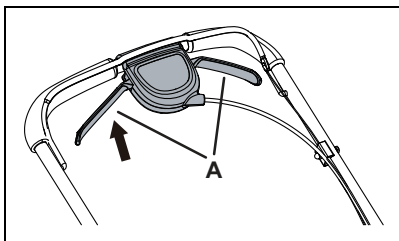


Self-Propel

When self-propel is used, the rear wheels are automatically driven by the engine which propels lawn mower forward.

Self-propelled speed of lawn mower can be adjusted using the self-propel control lever. Once engaged, gradually move self-propel control lever away from handlebar to reduce speed. Maintain pressure on self-propel handle to keep desired speed.

1. With engine running, pull self-propel control handle (A) towards handle bar to engage rear wheels.
2. Release self-propel control handle (A) to disengage rear wheels.



Note: After releasing self-propelled control lever, if lawn mower will not roll backwards, push mower forward slightly to disengage drive wheels.

CAUTION

The lawn mower is designed to cut normal residential grass of a height no more than 250 mm (9.8 in). Do not attempt to mow through unusually tall, dry, or wet grass (e.g., pasture) or piles of dry leaves. Debris may build up on mower deck or contact engine exhaust presenting a potential fire hazard.

Operating Tips

General Tips

- Inspect area where you will use lawn mower and remove all objects that lawn mower could throw.
- Avoid striking solid objects with blades. Never deliberately mow over any object.
- If lawn mower strikes an object or starts to vibrate, immediately shut off engine, wait for all moving parts to stop, disconnect spark plug lead from spark plug, and examine lawn mower for damage.
- For best performance, install new blades annually or when necessary.

Operating on Slopes



Mowing on slopes can cause severe personal injury. Do not mow on slopes with an incline greater than 15 degrees. If you are not comfortable, do not mow on a slope. Use lower self-propelled speed on a slope.

- Do not mow up and down face of slope, instead, mow across face of slope. Use caution when changing direction on a slope.
- Remove all obstacles such as rocks and tree limbs before mowing. While mowing lookout for holes, ruts, rocks, and other hidden objects that can cause a fall.
- Ensure that footing is stable. If loss of balance occurs, release brake-control handle immediately.
- Do not mow near drop-offs, ditches, or embankments.

Emptying Grass Catcher Bag

1. Stop lawn mower, and wait until blade has stopped.
2. Lift rear cover.
3. Hold grass catcher bag by its handle and unhook it from lawn mower.
4. Release rear cover.
5. Empty grass catcher bag.

Mowing Tips

Under certain conditions, such as very tall grass, it may be necessary to raise height of the lawn mower to reduce engine overloading and leaving clumps of grass clippings. It may be necessary to reduce ground speed and to run lawn mower over area a second time.

- For extremely tall grass, reduce cut width by overlapping previously cut path and mow at a slower speed.
- Keep top of engine clear of grass clippings. This will help keep engine cooler and extend engine life.
- Alternate mowing direction. This helps disperse grass clippings over lawn for even fertilization.

Mulching Tips

NOTICE

For best performance, keep lawn mower housing free of built-up grass. See "Cleaning Lawn Mower" in the Maintenance section of this Operator's Manual.

- In mulching mode, the blade will re-cut grass clippings many times, reducing them in size, so they are dispersed into lawn and will be less noticeable than full length clippings. Mulched grass will biodegrade quickly and provide nutrients for the lawn.
- Avoid cutting wet grass, which tends to form clumps and interfere with mulching action.
- For best results, adjust lawn mower cutting height so that lawn mower cuts off only top one-third of grass blades.
- If lawn is overgrown, raise cutting height to reduce engine overloading and leaving clumps of mulched grass.
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide clippings. When doing a second cut, mow perpendicular to first cut path.
- Change your cutting pattern from week to week. Mow north to south one week, then east to west next week. This will help prevent matting and graining of lawn.

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 lead 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 lawn mower can result in serious injuries to operator or bystanders. Always follow all maintenance instructions as written, otherwise serious personal injury can result.

 WARNING

Use only approved replacement components. Serious injury may result from the use of non-approved replacement components.

Maintenance Schedule

NOTICE

Refer to engine operator's manual for detailed engine maintenance schedule.

Regularly scheduled and proper maintenance is essential for safe, economical, and trouble-free operation.

Maintenance Schedule

	Before Each Use	After Each Use	Every 25 Hours or Season	Every 100 Hours	Before Storage
Check for Loose Fasteners	X				X
Check Wheels	X				
Clean Lawnmower		X			X
Check/Sharpen/Replace Blade		X ¹			
Check Engine Oil Level	X				
Clean Air Filter			X ²		
Inspect Muffler			X		
Replace Spark Plug			X		
Empty Fuel System				X	X
Adjust Self-Propel			X	X	

X¹ Replace blades more often when mowing in sandy soil.

X² Service more often when operating in dirty or dusty conditions.

Adjusting Self-Propel Drive Cable

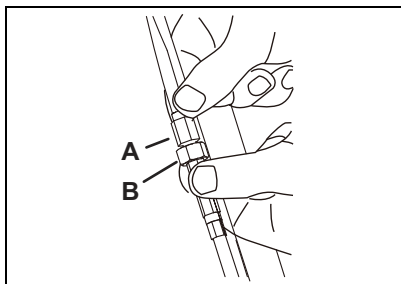
NOTICE

Proper tension is important for the self-propel system to function as intended. Check the amount of tension and adjust accordingly.

Note: When self-propel control handle is not engaged the control cable should have minimal slack, and the handle should return to its original position when released.

If self-propel control handle does not return to original position when released, adjust self-propel drive cable.

1. To increase cable tension or remove cable slack, turn adjustment bolt (A) counterclockwise to shorten cable. Once the adjustment is complete, tighten the nut (B).
2. To decrease cable tension or add cable slack, turn adjustment bolt (A) clockwise to extend cable. Once the adjustment is complete, tighten the nut (B).

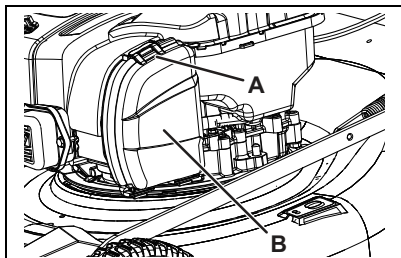


Cleaning Air Filter

NOTICE

Do not spray water on engine. Water can damage engine or contaminate fuel system.

1. Press tab at top of air filter cover (A) and pull cover away and up from engine to remove.
2. Remove filter element (B).
3. Gently tap filter on a hard surface. If filter is excessively dirty, replace with new filter.



Note: Never clean air filter element with gas or other solvents. Clean air filter element only with compressed air or by tapping it.

4. Install filter element into air filter case.
5. Install cover and secure it by engaging tab.

Cleaning Lawn Mower

WARNING

Blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.

WARNING

Lawn mower and blade have sharp edges that may lead to severe personal injury. Do not remove grass or debris on lawn mower or blade by hand. Always use a brush or scraper.

Clean lawn mower thoroughly after each use.

- Do not let grass or other debris become dry and hard on lawn mower.
 - Dried grass and debris may impair mowing operation as intended.
 - Ensure grass chute is free of any residual grass.
1. Remove spark plug lead from spark plug.

Note: Before placing lawn mower on its side, fully drain fuel tank using a fuel extraction pump or similar method.

2. Clean lawn mower. Check underside of lawn mower and blade mount by tilting lawn mower onto its left side (opposite oil filler neck).

Replacing Cutting Blade

WARNING

A blade that is bent or damaged could break apart and could cause injury or death. Inspect the blades periodically for wear or damage. Replace if needed.

WARNING

Blades are very sharp. Touching them may lead to severe personal injury. Avoid touching blades whenever possible, and always wear gloves to protect hands.

WARNING

Be sure to disconnect spark plug lead from spark plug before working on the cutting blade to prevent accidental engine starting.

WARNING

Do not lift the lawn mower vertically. Oil or fuel leakage is a fire hazard and may damage the engine.

WARNING

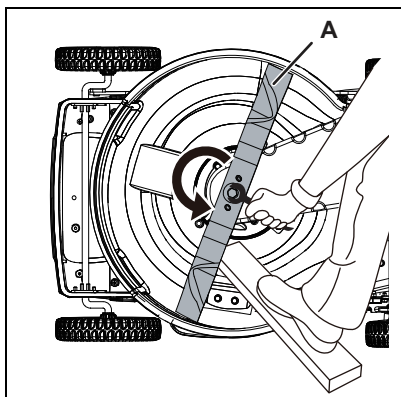
Incorrect blade installation can cause severe personal injury.

NOTICE

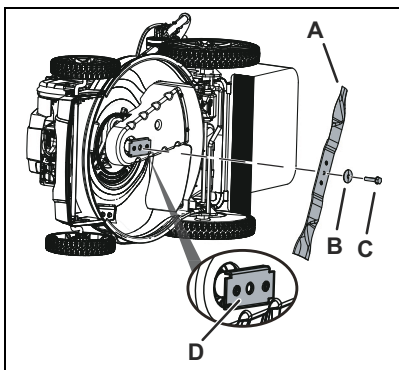
For best results your blade should be sharp. The blade may be sharpened by removing it and either grinding or filing the cutting edge keeping as close to the original bevel as possible. Always sharpen cutting edges equally to prevent blade imbalance. Improper blade balance will result in excessive vibration causing eventual damage to the engine and lawn mower. Be sure to carefully balance blade after sharpening. After prolonged use, especially in sandy soil conditions, the blade will become worn and lose some of the original shape. Cutting efficiency will be reduced and the blade should be sharpened or replaced. Replace with an approved factory blade only.

Note: Before placing lawn mower on its side, fully drain fuel tank using a fuel extraction pump or similar method.

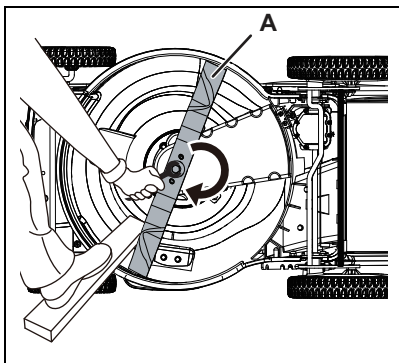
1. Turn lawn mower onto its left side (opposite oil filler neck).
2. Rotate blade (A) so it is perpendicular to the ground. Use a wood block to prevent blade from rotating.
3. Remove hex bolt (C) and washer (B).
4. Remove blade (A) from crankshaft.



5. Sharpen cutting blade or replace with same type (See Specifications section in this manual).
6. Position blade (A) over blade mount (D).



7. Insert washer (B) and hex bolt (C) through hole in blade (A), then thread assembly onto crankshaft by hand.
8. Rotate blade (A) so it is perpendicular to the ground. Use a wood block to prevent blade from rotating. Tighten hex bolt 45-60 N.m (33-44 lbf.ft).



Replacement Cutting Blade

- For best results, use the correct replacement kit for this lawn mower (See Specifications section in this manual).
- For further assistance with replacing or sharpening lawn mower's blade, please contact our customer service at 1-800-432-ECHO (3246).

Servicing Engine



Contact with a moving blade can cause severe personal injury. Avoid all contact with rotating blade.

Refer to the separate engine manual for engine maintenance instructions.

TROUBLESHOOTING

ENGINE PROBLEM TROUBLESHOOTING CHART		
Problem	Cause	Solution
Engine does not start	Fuel tank is empty.	Fill fuel tank with fuel. Refer to engine owner's manual.
	Air filter element is dirty.	Clean air filter element. Refer to engine owner's manual.
	Spark plug is loose.	Tighten spark plug. Refer to engine owner's manual.
	Spark plug lead is loose or disconnected from spark plug.	Install spark plug lead on spark plug. Refer to engine owner's manual.
	Spark plug gap is incorrect.	Set gap between electrodes. Refer to engine owner's manual.
	Spark plug is defective.	Install new, correctly gapped spark plug. Refer to engine owner's manual.
	Carburetor is flooded with fuel.	Remove air filter element and pull starter handle continuously until carburetor clears itself and install air filter element.
	Faulty ignition module.	Contact the engine manufacturer.
Engine difficult to start or loses power.	Dirt, water, or stale fuel in fuel tank.	Drain fuel and clean fuel tank. Fill fuel tank with clean, fresh fuel.
	Vent hole in fuel tank cap is plugged.	Clean or replace fuel tank cap.

ENGINE PROBLEM TROUBLESHOOTING CHART		
Problem	Cause	Solution
Engine operates erratically.	Air filter element is dirty.	Clean air filter element.
	Spark plug is defective.	Install new, correctly gapped plug. Refer to engine owner's manual.
	Spark plug gap is incorrect.	Set gap between electrodes. Refer to engine owner's manual.
	Air filter element is dirty.	Clean air filter element. Refer to engine owner's manual.
Engine idles poorly.	Air filter element is dirty.	Clean air filter element. Refer to engine owner's manual.
	Air slots in engine shroud are blocked.	Remove debris from slots.
	Cooling fins and air passages under engine blower housing are blocked.	Remove debris from cooling fins and air passages.
Engine skips at high speed.	Gap between electrodes of spark plug is too close.	Set gap between electrodes. Refer to engine owner's manual.
Engine overheats.	Cooling air flow is restricted.	Remove debris from cooling fins, slots in shroud, blower housing, air passages.
	Incorrect spark plug.	Install correct spark plug on engine.
Mower vibrates abnormally.	Cutting assembly is loose.	Tighten blade.
	Cutting assembly is unbalanced due to uneven sharpening.	Remove the blade and grind or file the cutting edge keeping as close to the original bevel as possible to balance blade.
Self-propel function does not work.	The self-propel drive cable has too much slack.	Adjust the cable tension. Refer to maintenance section for procedure.

STORAGE

General Storage Instructions

DANGER

Fire hazard. Fuel is flammable. Accidental ignition can cause serious personal injury. Use extreme care when mixing, storing, draining or handling fuel. Do not drain gasoline in closed rooms or in proximity to open flames. Do not smoke around fuel.

DANGER

Fire hazard. Fuel fumes are flammable. Open flames or sparks can ignite fuel fumes causing serious personal injury. Do not store in enclosure where fuel fumes may accumulate or reach an open flame or spark.

CAUTION

Machine remains hot after use. Touching hot surfaces can cause personal injury. Allow hot engine to cool for at least 30 minutes before cleaning.

NOTICE

Stored fuel ages. Old fuel in the fuel tank is the leading cause of hard starting. Do not store fuel without fuel stabilizer more than 30 days. Add fuel stabilizer such as ECHO Red Armor® Fuel Treatment, as directed on the label, to fresh fuel only. Do not store stabilized fuel beyond the duration recommended by the fuel stabilizer manufacturer.

NOTICE

Do not use garden hose or pressure washing equipment to clean engine. These can force water into air filter or muffler and damage engine.

NOTICE

Always store lawn mower on a level surface.

- Store lawn mower in a dry, clean and frost-protected place, out of reach of unauthorized persons. Never store the lawn mower near an open flame, pilot light or sparks, or near any possible source which may cause these, such as power tools, a water heater, furnace, etc.
- Clean lawn mower and accessories after each use and before storage.
- When storing lawn mower in an unventilated storage shed, coat equipment, especially cables and moving parts, with light oil or silicone.
- Lightly grease cutting area to avoid corrosion.
- Do not kink or bend cables.

Short-Term Storage

- Remove and empty grass catcher bag.
- Allow engine and exhaust system to cool and cover engine to keep out dust. A hot engine and exhaust system can ignite or melt some materials.
- Do not use plastic sheeting as a dust cover. A non-porous cover will trap moisture around engine, promoting rust and corrosion.

Long-Term Storage (Over 30 Days)

Note: Dispose of any unused fuel properly. Recycle it according to local codes.

1. Remove and empty grass catcher bag.
2. Empty fuel tank with a suction pump or similar method.
3. Start engine and let it run until engine uses remaining fuel.
4. Disconnect spark plug lead from spark plug and connect spark plug lead to retaining post (if equipped).
5. Remove spark plug, add 30 ml (1 fl. oz.) of engine oil through spark plug hole, and pull starter rope slowly several times to distribute oil throughout cylinder to prevent cylinder corrosion.
6. Loosely install spark plug.
7. Check and tighten all fasteners.

Removing Lawn Mower from Storage

- Check and tighten all fasteners.
- Remove spark plug and pull recoil starter handle to blow excess oil from cylinder.
- Install spark plug and connect spark plug lead.
- Fill fuel tank with fresh fuel.

Transport

DANGER

The fuel tank must be empty. Spilled fuel or fuel vapor may ignite.

CAUTION

Let the engine cool down before transporting the machine.

NOTICE

Disengage the blade and raise cutting deck as high as possible when moving lawn mower. Disengage blade before crossing surfaces other than grass.

1. Empty fuel tank with a suction pump or similar method.
 2. Start engine and let it run until engine uses remaining fuel.
 3. Let engine cool before transporting.
- Do not drop or let other objects strike lawn mower when transporting.
 - Tie down lawn mower securely while transporting.
 - Do not place objects on lawn mower while transporting.

Disposal

Check and follow local regulations for disposal or recycling of gasoline, oil, or other hazardous fluids.

SPECIFICATIONS

MODEL	LM-2115SP
Engine Type	Briggs & Stratton EXi625
Engine Displacement	150 cc (9.15 in ³ .)
Blade Width	53 cm (21 in.)
Rated Speed	3200 RPM
Bag Capacity	60 L (1.7 bushel)
Net Weight	32.7 kg (72.0 lb)
Height Adjustment	32-95.25 mm (1.25-3.75 in.) 7 height positions
Replacement Blade Kit	P/N 99988806004

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.***



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: Regístrese en la página web y ahorre una estampilla! Le alertarán sobre actualizaciones del producto y/o se le enviará información sobre los nuevos productos ECHO y las ofertas especiales. Simplemente visite:
www.echo-usa.com

OPTION EN LIGNE: Enregistrer en ligne et épargner un timbre! Vous serez informé sur les nouveaux produits ECHO et les mises à jour de produit ainsi que les offres spéciales. Simplement visitez le: www.echo-usa.com

Please Print : Por Favor Escribe 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 : Courriel 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	

Primary use of tool: ☐ Professional ☐ Homeowner ☐ Rental Equip.
 Uso primario de la herramienta: ☐ Profesional ☐ Dueño de casa ☐ Alquiler
 Usage principal: ☐ Professionnel ☐ Résidentiel ☐ 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 electrónico 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
 Visité usted la página 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

X7572270206 02-2012



WARRANTY

WARRANTY**Limited Warranty Statement**

ECHO Incorporated warrants to the original retail purchaser that this ECHO brand outdoor product is free from defects in material and workmanship and agrees to repair or replace at ECHO Incorporated's discretion, any defective product free of charge within these time periods from the date of purchase.

Mower Warranty:

- 3 Year Consumer/Homeowner
- 90 Days Commercial

Engine Warranty:

- See engine manufacturer's separate warranty.

This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase. Any part of this product found, in the reasonable judgment of ECHO Incorporated, to be defective in material or workmanship will be repaired or replaced without charge for parts and labor by an authorized ECHO dealer. Repair parts and accessories replaced under this warranty are warranted only for the balance of the original warranty period.

The product, including any defective part, must be returned to an authorized ECHO dealer within the warranty period. The expense of delivering the product to the dealer for warranty work and the expense of returning it back to the owner after repair or replacement will be paid by the owner. ECHO Incorporated's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any ECHO brand outdoor product. Proof of purchase will be required by the dealer to substantiate any warranty claim. All warranty work must be performed by an authorized ECHO dealer.

This warranty does not cover any product that has been subject to misuse, neglect, negligence, or accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual. This warranty does not apply to any damage to the product that is the result of improper maintenance or to any product that has been altered or modified. The warranty does not extend to repairs made necessary by normal wear or by the use of parts or accessories which are either incompatible with the ECHO brand outdoor product, or that adversely affect its operation, performance, or durability. In addition, this warranty does not cover wear to normal items such as, but not limited to:

- A. Tune-ups – Air filters, gas filters, carburetors, spark plugs, filters, oil changes
- B. Wear items – Recoil starter rope, wheels, bearings, belts, pulleys, and mower blades.
- C. **IMPORTANT:** Some components not covered under this warranty may still be covered by a separate warranty issued by the engine manufacturer. Please see the engine manufacturer's warranty supplied with this product for further details.

ECHO Incorporated reserves the right to change or improve the design of this product without assuming any obligation to modify any product previously manufactured.

All implied warranties are limited in duration to the stated warranty period. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate three-year or 90-day warranty period. ECHO Incorporated's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts and ECHO Incorporated does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. ECHO Incorporated assumes no responsibility for incidental, consequential, or other damages including, but not limited to, expense of returning the product to an authorized dealer for ECHO brand outdoor products and expense of delivering it back to the owner, mechanic's travel time, telephone or telegram charges, rental of a like product during the time warranty service is being performed, travel, loss or damage to personal property, loss of revenue, loss of use of the product, loss of time, or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

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

This warranty applies to ECHO brand lawnmowers manufactured by or for ECHO Incorporated and sold in the United States and Canada.

To locate your nearest authorized ECHO dealer, visit www.ECHO-usa.com or dial 1-800-432-ECHO (3246).

ECHO Incorporated
400 Oakwood Rd.
Lake Zurich, IL 60047
1-800-432-ECHO (3246)
www.echo-usa.com

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NOTES

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ECHO INCORPORATED

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