



# TC-210

## TILLER / CULTIVATOR

### *Operator's Manual*

#### **WARNING**



##### **Burn Hazard**

*The muffler or catalytic muffler and surrounding cover may become extremely hot.*

*Always keep clear of exhaust and muffler area, otherwise serious personal injury may occur.*

#### **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**



*Users of this equipment risk injury to themselves and others if the unit is used improperly and/or safety precautions are not followed. ECHO provides an operator's manual. It must be read and understood for proper and safe operation. Failure to do so could result in serious injury.*

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

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories, and may not include all standard equipment.

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## INTRODUCTION

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Welcome to the ECHO family. This ECHO product was designed and manufactured to provide long life and on-the-job dependability. Read and understand this manual. You will find it easy to use and full of helpful operating tips and SAFETY messages.

### The Operator's Manual

Keep it in a safe place for future reference. Contains specifications and information for safety, operation, maintenance, storage and assembly specific to this product. Scan QR codes throughout the operator's manual for more information.

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## SERVICING INFORMATION

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### Parts/Serial Number

Genuine ECHO Parts and Assemblies for your ECHO products are available only from an Authorized ECHO Dealer. When you do need to buy parts always have the Model Number and Serial Number of the unit with you. 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 ECHO Service Dealer. For the name and address of the Authorized ECHO Service Dealer nearest you, ask your retailer or call: 1-800-432-ECHO (3246). Dealer information is also available on our Web Site. [www.echo-usa.com](http://www.echo-usa.com). When presenting your unit for Warranty service/repairs, proof of purchase is required.

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## 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 1-800-673-1558 from 8:00 am to 5:00 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit.

## Product Registration

Register your ECHO equipment on-line at [www.echo-usa.com](http://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 or Replacement Manuals

**Replacement Operator or Safety Manuals, and Parts Catalogs**, are available from your Authorized ECHO Service Dealer, or at [www.echo-usa.com](http://www.echo-usa.com), or by contacting ECHO Inc., 400 Oakwood Road, Lake Zurich, IL 60047 (800-673-1558). Always check [www.echo-usa.com](http://www.echo-usa.com) for updated information.



**Safety Videos** are available from your Authorized ECHO Service Dealer. A \$5.00 shipping charge is required for each video.

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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 CAN 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 may 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.













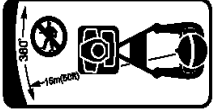


**CIRCLE AND SLASH SYMBOL**

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	<b>H</b>	Carburetor Adjustment - High Speed Mixture
	Wear Eye, Ear and Head Protection	<b>T</b>	Carburetor Adjustment - Idle Speed
	Wear Hand and Foot Protection	<b>L</b>	Carburetor Adjustment - Low Speed Mixture
	Safety/Alert		Emergency Stop
	Hot Surface		Fuel and Oil Mixture

Symbol	Description	Symbol	Description
	Finger severing		Avoid all power lines. This unit is not insulated against electrical current.
	DO NOT operate with kick stand down.		Wear slip resistant foot wear.
	DO NOT Allow Flames or Sparks Near Fuel		Ignition ON / OFF
	DO NOT Smoke Near Fuel		Primer Bulb
	Choke Control "RUN" Position (Choke Open)		Choke Control "COLD START" Position (Choke Closed)
	Keep away from rotating tines.		Carry unit with carry handle.
		Keep Bystanders and Helpers Away 15 m (50 ft.).	



**LOOK BEFORE YOU PUMP!**  
Ethanol Percentage

0% - 10%	15% - 30% - 50% - 85%
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**USE E10 OR LESS FUEL**

Do not use any fuel containing greater than 10 percent ethanol (E10) in this equipment. It may cause damage or failure and is prohibited by Federal Law.  
For Details, see the "Fuel" Section of your Operators Manual

## Personal Condition and Safety Equipment

### **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 may 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.

#### Hearing/Ear Protection

ECHO recommends wearing hearing protection 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, and 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 BAREFOOTED.

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 may 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.***

## Extended Operation / Extreme Conditions

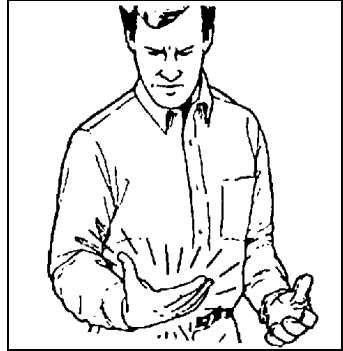
## CAUTION

***Prolonged exposure to cold and/or vibration may result in injury. Read and follow all safety and operation instructions to minimize risk of injury. Failure to follow instructions may 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.
- 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 over head 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 may result.***

## DANGER

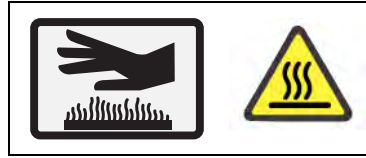
***Do not operate this product indoors or in inadequately ventilated areas. Engine exhaust contains poisonous emissions and can cause serious injury or death.***

### **To Avoid Injury:**

- Read and understand the OPERATOR'S MANUAL.
- Know location and functions of all controls.
- Never allow children or uninstructed adults to operate the unit.
- Keep bystanders and animals a minimum of 15m (50 ft.) away while operating unit.
- Keep away from rotating parts.
- Do not hold or carry unit in a manner that will permit tines to contact body parts or clothing.
- Refer to Operator's Manual for correct carrying instructions.
- BEFORE OPERATION, refer to your Operator's Manual for proper operating techniques.
- Always empty the fuel tank before carrying unit in a car or truck. To avoid damage to engine parts always lay unit on its muffler side.

### Avoid Hot Surfaces

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



### Equipment

## WARNING

***Use only ECHO attachments. Serious injury may result from the use of a non-approved attachment combination. ECHO, INC. 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 and safety manual.***

- Check unit for loose/missing nuts, bolts, and screws. Tighten and/or replace as needed.
- Inspect shield for damage and that shield is securely in place. Replace if shield is damaged or missing.
- Check that the tines are firmly attached and in safe operating condition.

## 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 may 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.***

## EMISSION CONTROL (EXHAUST & EVAPORATIVE)

### CARB And EPA Emissions 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.

**EMISSION CONTROL INFORMATION**  
 ENGINE FAMILY: EDEHXS.0214EQ DISPLACEMENT: 21.2cc  
 EMISSION COMPLIANCE PERIOD: 50Hours  
 THIS ENGINE MEETS 2013 U.S. EPA EXH/EVAP & CALIFORNIA  
 EXH/EVAP EMISSION REGULATIONS FOR S.O.B.E. REFER TO OWNER'S  
 MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.  
**YAMABIKO CORP.** MMM/YYYY **E**

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

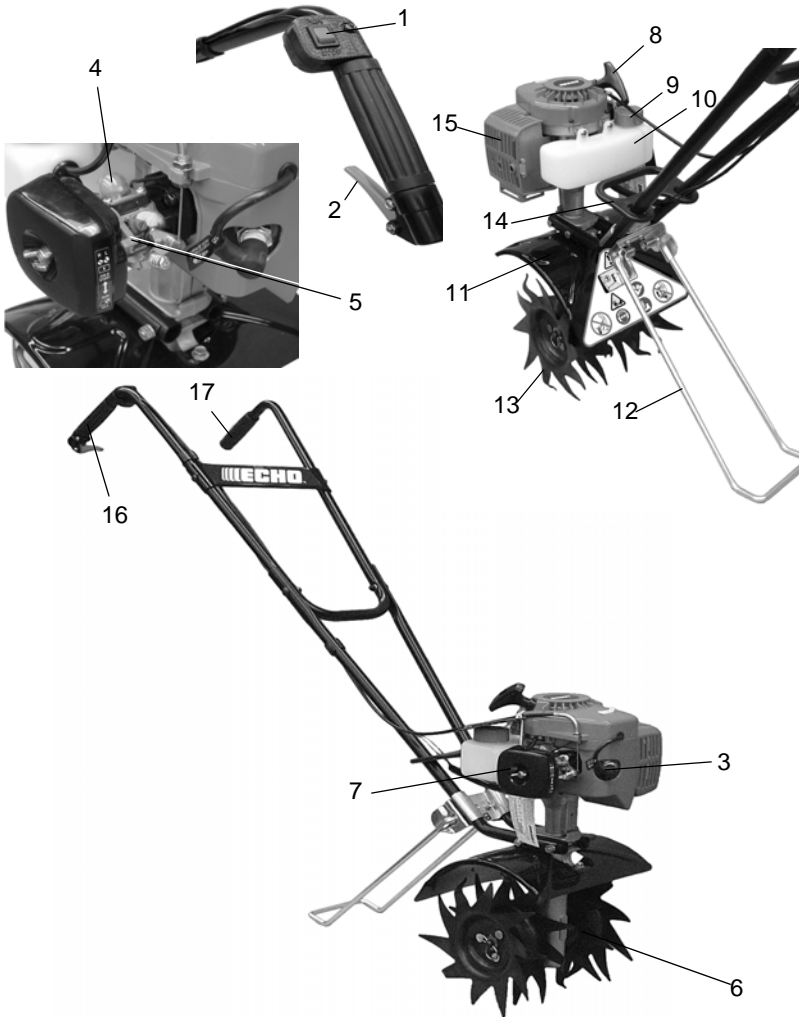
### Product Emission Durability (Emission Compliance Period)

**EMISSION CONTROL INFORMATION**  
 ENGINE FAMILY: CEHXS.0214KL DISPLACEMENT: 21.2cc  
 EMISSION COMPLIANCE PERIOD: 300Hours  
 THIS ENGINE MEETS 2012 U.S. EPA EXH/EVAP & CALIFORNIA  
 EXH/EVAP EMISSION REGULATIONS FOR S.O.R.E. REFER TO OWNER'S  
 MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.  
**YAMABIKO CORP.** MMM/YYYY **E**



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.

DESCRIPTION

Locate the safety decal(s) on your unit. Make sure the decal(s) is legible and that you understand and follow the instructions on it. If a decal cannot be read, a new one can be ordered from your ECHO dealer. .





1. **STOP SWITCH** - Toggle Switch mounted on throttle handle. Move switch forward to "RUN" position to run, back to "Stop" position to stop unit.
2. **THROTTLE TRIGGER** - Spring loaded to return to idle when released. When accelerating, pull trigger gradually for best operating technique. DO NOT hold trigger when starting.
3. **SPARK PLUG** - Provides spark to ignite fuel mixture.
4. **PURGE BULB** - Pumping purge bulb before starting engine draws fresh fuel from the fuel tank, purging air from the carburetor. Pump purge bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump purge bulb an additional 4 or 5 times.
5. **CHOKE** - The choke control is located at the rear of the air cleaner housing. Move choke lever to Cold Start (  ) to close choke for cold start. Move choke lever to "Run" (  ) position to open choke.
6. **GEAR BOX** - Houses gears for driving tines.
7. **AIR CLEANER** - Contains replaceable filter element.
8. **RECOIL STARTER HANDLE** - Pull handle slowly until starter engages, then quickly and firmly. When engine starts, return handle slowly. DO NOT let handle snap back or damage to unit will occur.
9. **FUEL TANK CAP** - Covers and seals fuel tank opening.
10. **FUEL TANK** - Contains fuel and fuel filter
11. **TINE GUARD** - Used to help deflect debris away from operator and reduce accidental contact with tines.
12. **KICK STAND** - Supports unit for easier starting and convenient storage. Folds up when unit is in use.
13. **TINES** - Special 10-tooth tines are reversible for tilling or cultivating, removable for cleaning.
14. **PLASTIC CARRYING HANDLE** - Use to lift and carry unit.
15. **SPARK ARRESTOR MUFFLER OR SPARK ARRESTOR MUFFLER WITH CATALYST** -The muffler or catalytic muffler controls exhaust noise and emission. The spark arrestor screen prevents hot, glowing particles of carbon from leaving the muffler. Keep exhaust area clear of flammable debris.
16. **THROTTLE HANDLE** - For right hand.
17. **SUPPORT HANDLE** - For left hand.

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## CONTENTS

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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.

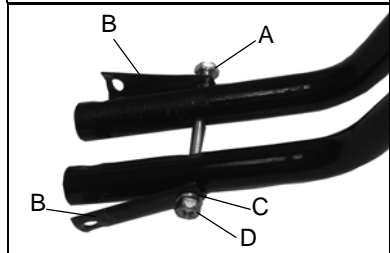
- \_\_\_\_ - 1 - Power Head / Shield Assembly
- \_\_\_\_ - 1 - Upper Handle Assembly
- \_\_\_\_ - 1 - Lower Handle / Kick Stand Assembly
- \_\_\_\_ - 2 - Lower Handle Mounting Eye Plates
- \_\_\_\_ - 1 - Operator's Manual
- \_\_\_\_ - 1 - Warranty Statement
- \_\_\_\_ - 1 - Echo Power Blend X™ 2-stroke oil sample
- \_\_\_\_ - 2 - 1/4 in. x 3-1/4 in. Carriage Bolts
- \_\_\_\_ - 2 - 1/4 in. Lock Washers
- \_\_\_\_ - 2 - 1/4 in. Lock Nuts
- \_\_\_\_ - 1 - Plastic Carry Handle
- \_\_\_\_ - 2 - Cable Clips

## ASSEMBLY

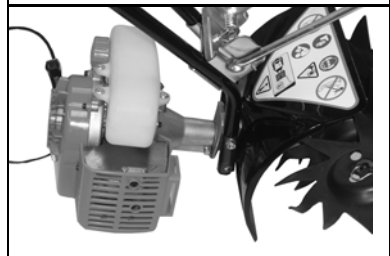
1. Lay powerhead assembly down so that shield label faces upward.  
Place top handle assembly to front.



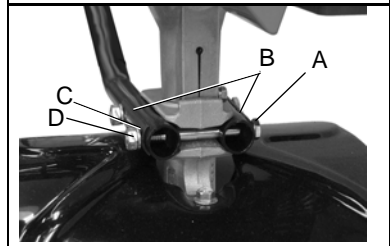
2. Loosely assemble lower handle/kick stand assembly using carriage bolt (A), eye plates (B), lockwasher (C) and locknut (D) in rear assembly holes as shown.



3. Slide lower handle assembly under power head and position in mounting groove.

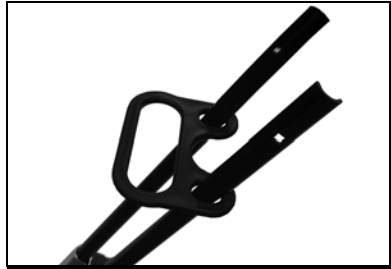


4. Assemble carriage bolt (A), eye plates (B), lockwasher (C), and locknut (D) in front handle mounting holes. **DO NOT TIGHTEN BOLTS.**

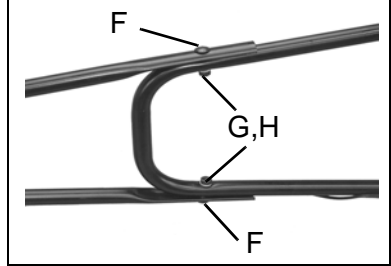




- 5. Slide plastic carry handle onto lower handle tubes.



- 6. Remove carriage bolts (F), lockwashers (G), and nuts (H) from top handle assembly.
- 7. Place top handle assembly between lower handles, align mounting holes and attach using carriage bolts (F), lockwashers (G), and nuts (H). Carriage bolts must be installed from the outside through square holes in the lower handle, then through upper handle tube.



- 8. Securely tighten lower handle bolts first, then the upper handle bolts.

**NOTICE**

*Assure throttle cable is not twisted or wrapped around upper or lower handle.*

- 9. Stand unit up.
- 10. Secure throttle linkage and stop switch lead midway on right upper and lower handle with cable clips.



 **WARNING**

*Never perform tilling or cultivating while kick stand is in down position, otherwise serious injury may result.*

## 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.*

 **WARNING**

*Operation of this equipment may create sparks that can start fires around dry vegetation. This unit is equipped with a spark arrestor to prevent discharge of hot particles from the engine. Metal cutters can also create sparks if the cutter strikes rocks, metal, or other hard objects. Contact local fire authorities for laws or regulations regarding fire prevention requirements.*

## Fuel

 **WARNING**

*Diesel fuels and alternative fuels, such as E-15 (15% ethanol), E-85 (85% ethanol) or any fuels not meeting ECHO requirements are NOT approved for use in ECHO 2-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 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. ECHO Red Armor Fuel™ (Power Fuel™) is 93 octane, ethanol-free fuel premixed with ECHO Red Armor® engine oil at 50:1 ratio. Use of ECHO Red Armor Fuel™ (Power Fuel™) is recommended to extend engine life in all air-cooled 2-stroke and 2/4-stroke hybrid engines.

**Two Stroke Oil** - A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FD Standards must be used. Echo brand 2-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, such as Echo brand 2-stroke oils, will void the two-stroke engine warranty.

## NOTICE

*Echo brand 2-stroke oils may be mixed at 50:1 ratio for application in all Echo engines sold in the past regardless of ratio specified in those manuals.*

## Handling Fuel

### **DANGER**

**Fuel is VERY flammable. Use extreme 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.**
- ◆ **Move at least 3 m (10 ft.) from refueling location before starting the engine.**

**Mixing Instructions**

1. Fill an approved fuel container with half of the required amount of gasoline.
2. Add the proper amount of 2-stroke 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
Gallons	Oz.	Liter	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.*

- 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 (30) days, ninety (90) 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.*

# Starting Cold Engine

## **WARNING**

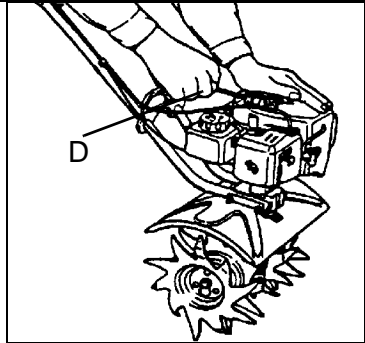
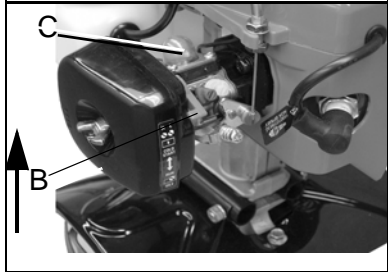
**The tines should not move at idle. If tines move, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer, otherwise serious personal injury may result.**

1. Lay the unit on a flat area and keep movable attachment parts clear of all obstacles.
2. *Stop Switch*  
Move stop switch button (A) to RUN position.
3. *Choke*

Move choke lever (B) to Cold Start Position (  ). Throttle must remain at idle for starting.

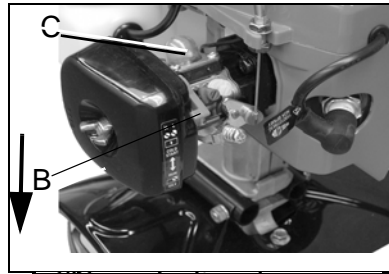
4. *Purge Bulb*  
Pump purge bulb (C) 5-10 times until fuel is visible and flows freely in the clear fuel tank return line.

5. *Recoil Starter*  
Firmly hold unit down. Pull recoil starter handle/rope (D) until engine fires, or a maximum of three (3) pulls.

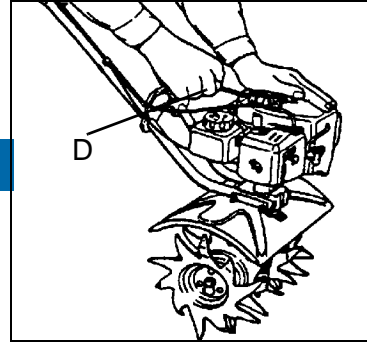


6. *Choke*

Move choke lever (B) back to Run (|↓|) position.

7. *Recoil Starter*

Pull recoil starter handle/rope (D) until engine starts and runs, or a maximum of 10 pulls.



## NOTICE

*If engine does not start with choke in Run position after 10 pulls, engine may be flooded. Allow unit to stand for one minute. Assure choke remains in Run (|↓|) position and pull starter handle/rope an additional 10-15 times, or until engine starts and runs.*

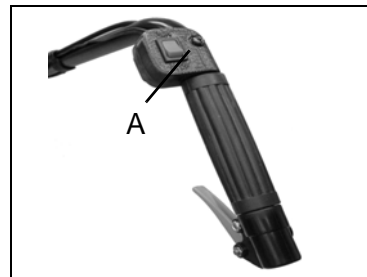
8. After starting the engine, allow unit to warm up at idle for 2-3 min.

9. *Throttle Trigger*

After engine warm-up, gradually depress throttle trigger to increase engine RPM to operating speed.

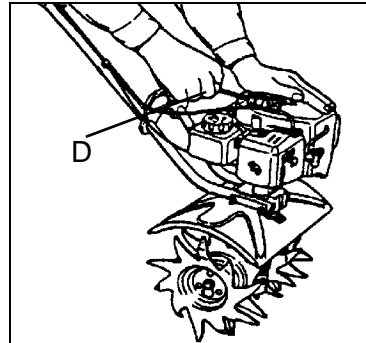
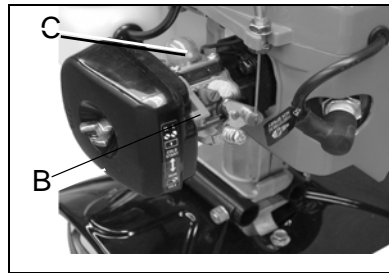
## Starting Warm Engine

The starting procedure is the same as Cold Start except DO NOT close the choke.



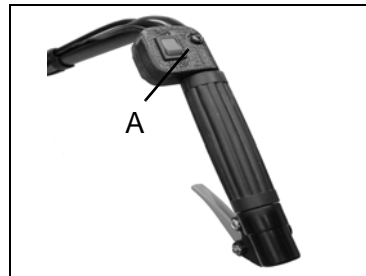
1. *Stop Switch*  
Move stop switch button (A) to RUN position.
2. *Purge Bulb*  
Pump purge bulb (C) until fuel is visible in the "Clear" fuel return line. Pump bulb an additional 4 or 5 times.
3. *Recoil Starter*  
Firmly hold unit down. Pull recoil starter handle/rope (D) until engine starts and runs, or a maximum of five (5) pulls.

Note: If engine does not start after 5 pulls, use Cold Start Procedure.



## Stopping Engine

1. *Throttle Trigger*  
Release throttle trigger and allow engine to return to idle before shutting off engine.
2. *Stop Switch*  
Move stop switch button (A) backward to STOP position.



## WARNING

***If engine does not stop when stop switch is moved to STOP position, move choke to COLD START position to stall engine. Have your ECHO dealer repair stop switch before using unit again.***

## Tilling/Cultivating

### 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

**Do not operate this unit indoors or in inadequately ventilated areas.**

- Carry unit to tilling/cultivating area using plastic carry handle and upper handle. Avoid contact with tines or hot engine.

- Check the area to be tilled or cultivated. Look for any hazards and obstructions that could contribute to unsafe conditions.

- Remove all rocks, debris, and other materials that could become jammed in the tines.

- Do not till or cultivate in areas where there may be hidden hazards, such as sprinkler heads and pipes, buried power cables or gas lines, or other similar hazards.

- Start the unit as shown in “Starting” instructions.

- Hold unit securely. Always grip support handle with left hand, and throttle handle with right hand.

- Depress throttle trigger gradually to begin operation.

- Release throttle trigger to stop tines.

- Allow engine to return to idle, and move switch to “Stop” position to stop engine.





**TILLING** - Recommended tilling depth is 15-20 cm (6 - 8 inches)

Install Tines with individual tines angled forward, toward front of unit. (See Tine Removal/Cleaning/Installation)

- Use a forward/backward motion to till soil. Allow tines to dig into soil, then pull unit back to break up and pulverize clumps. Tilling depth is controlled by the number of times the forward/backward motion is used in an area.

- Controlling tilling depth :

- Shallow tilling: Move tiller over soil surface quickly. Tines should be in cultivating position.

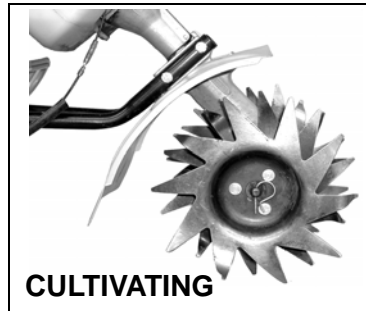
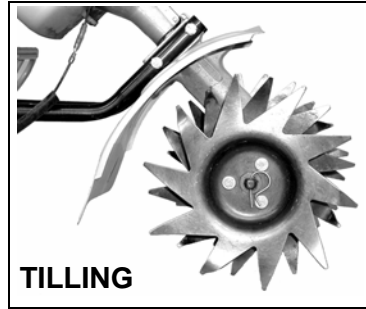
- Deeper tilling: Move tiller over soil slowly. Allow tiller to work the same area until desired depth is reached.

- Big Weeds/Tough Roots: Rock tiller back and forth over tough spot until the tines slice through the roots or weeds.

- Digging Holes: Hold tiller in place, and allow tines to dig down into the soil. Allow tines to dig approximately 6 – 8 inches deep, then lift unit up and out. Remove loose soil with shovel or rake. Resume digging with rotating tiller tines until desired depth is reached.

- **CULTIVATING** – Recommended cultivating depth is 5-7.5 cm (2 – 3 inches). Install Tines with individual tines angled rearward, toward the operator.

(See Tine Removal/Cleaning/Installation) Allow unit to move forward slowly. Pull unit back to cut vegetation and cultivate soil to desired depth. Repeat forward/backward motion as needed.



**MAINTENANCE**

**⚠ 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. Allow unit to cool before performing service. Wear gloves to protect hands from sharp edges and hot surfaces.***

Your ECHO unit is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your unit achieve that goal. If you are unsure or are not equipped with the necessary tools, we recommend that you take your unit to an ECHO Servicing Dealer for maintenance. To help you decide whether you want to DO-IT-YOURSELF or have the ECHO Dealer do it, each maintenance task has been graded. If the task is not listed, see your ECHO Dealer for repairs.

**Skill Levels**

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

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

Click [HERE](#) or go to <http://www.echo-usa.com/products/maintenance-kit> for information on Maintenance Kits.

**Maintenance Intervals**

COMPONENT/SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL
<b>Daily or Before Use</b>		
Air Filter	Inspect/Clean*	1
Choke Shutter	Inspect/Clean *	1
Fuel System	Inspect (2)	1
Cooling System	Inspect/Clean	2
Recoil Starter Rope	Inspect/Clean*	1
Screws/Nuts/Bolts	Inspect/Tighten/Replace*	1
Tines	Inspect/Clean	1

COMPONENT/SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL
<b>Every Refuel</b>		
Fuel System	Inspect (2)	1
<b>3 Months</b>		
Air Filter	Replace*	1
Fuel Filter	Inspect*	1
Fuel Cap Gasket	Inspect*	1
Spark Plug	Inspect/Clean/Replace*	1
Muffler Spark Arrestor	Inspect/Clean/Replace*	2
Cylinder Exhaust Port	Inspect/Clean/Decarbon	2
Gear Housing	Grease(1)	2
<b>Yearly</b>		
Fuel Filter	Inspect/Replace*	1
Fuel Cap Gasket	Replace*	1

**IMPORTANT NOTE** - Time intervals shown are maximum. Actual use and your experience will determine the frequency of required maintenance.

\* Replacement is recommended based on the finding of damage or wear during inspection

**MAINTENANCE PROCEDURE NOTES:**


(1) Apply lithium based grease every 25 hours of use.

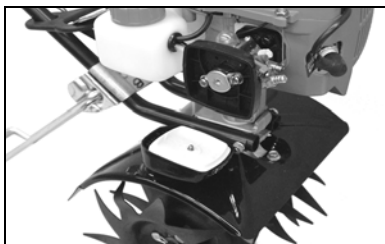
(2) Low evaporative fuel tanks DO NOT require regular maintenance to maintain emission integrity.

## Air Filter

### Level 1.

Parts Required: Tune up Kit

1. 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.
2. Remove air filter cover. Brush dirt from inside cover.
3. Remove air filter and lightly brush debris from filter. Replace filter if it is damaged, fuel soaked, very dirty, or the rubber sealing edges are deformed.
4. If filter can be reused, be certain it:
  - Fits tightly in the air filter cavity.
  - Is installed with the original side out.
5. Install air filter cover.



Note: Carburetor adjustment may be needed after air filter cleaning/replacement. See Carburetor Adjustment Section.

## Fuel Filter

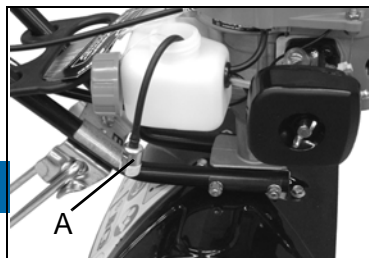
### Level 1.

Parts Required: Tune up Kit

## ⚠ DANGER

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

1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
2. Pull the fuel filter from the fuel tank.



## NOTICE

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

3. Remove the filter (A) from the line and install the new filter.

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.

## Spark Plug

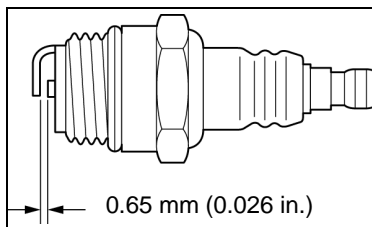
### Level 2.

Parts Required: Tune up Kit

## NOTICE

*Use only NGK BPM-8Y spark plug (BPMR-8Y in Canada) otherwise severe engine damage may occur.*

1. Remove spark plug and check for fouling, worn and rounded center electrode.
2. Clean the plug or replace with a new one. DO NOT sand blast to clean. Remaining sand will damage engine.
3. Adjust spark plug gap by bending outer electrode.
4. Tighten spark plug to 150-170 kgf • cm (130-150 in • lbf).



## Cooling System

### Level 2.

Parts Required: None

## 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.

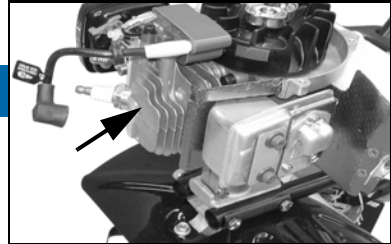
Removal of cooling passage blockages or cleaning of cooling fins is considered "Normal Maintenance." Any failure attributed to lack of maintenance is not warranted.

1. Remove throttle cable end from the carburetor swivel.
2. Remove starter cover.

Note: The throttle cable remains assembled to the starter cover.

3. Disconnect spark plug lead.
4. Remove cylinder cover. (A)

5. Use brush to remove dirt from the cylinder fins.



**NOTICE**

*DO NOT use a metal scraper to remove dirt from the cylinder fins.*

6. Assemble components in reverse order.

Note: When installing the cylinder cover, be certain the muffler gasket tabs are locked into the muffler grill slots and the stop switch lead is seated in the relief notch.

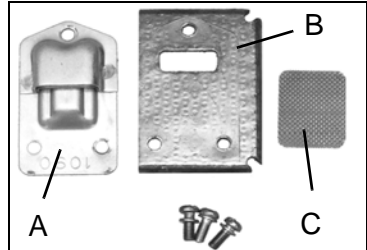
## Exhaust System

### Spark Arrestor Screen

#### Level 2.

Parts Required: Spark Arrestor Screen, Gasket

1. Remove starter cover and cylinder cover.
2. Remove exhaust guide (A), gasket (B), and screen (C) from muffler body.
3. Clean carbon deposits from muffler components.



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

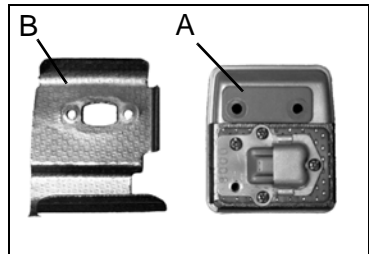
4. Replace screen if it is cracked, plugged, or has holes burned through.
5. Assemble components in reverse order.

### Exhaust Port Cleaning

#### Level 2.

Parts Required: Heat Shield

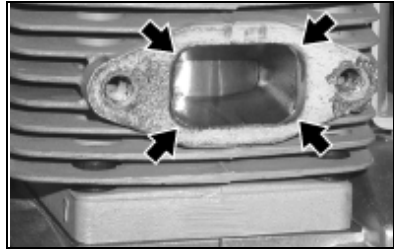
1. Remove spark plug lead from spark plug, and remove engine cover.
2. Place piston at top dead center. Remove muffler (A) and heat shield (B).
3. Use a wood or plastic scraping tool to clean deposits from cylinder exhaust port.



## 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.*

4. Inspect heat shield, and replace if damaged.
5. Install heat shield and muffler.
6. Tighten muffler mounting bolts (or nuts) to 90-110 kgf•cm (80-95 in•lbf).
7. Install engine cover and attach spark plug lead.
8. Start engine, and warm to operating temperature.
9. Stop engine, and re-tighten mounting bolts (or nuts) to specifications.



## **Carburetor Adjustment**

### **Level 2.**

### **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 1,100 feet above sea level (ASL) (96.0 kPa). To maintain proper engine operation and emission compliance above 1,100 feet ASL the carburetor may need to be adjusted by an authorized ECHO service dealer.

## **NOTICE**

*If the engine is adjusted for operation above 1,100 feet ASL, the carburetor must be re-adjusted when operating the engine below 1,100 feet ASL, otherwise severe engine damage may result.*

Parts Required:      None

**Note:** Every unit is run at the factory and the carburetor is set in compliance with emission regulations. In addition, the carburetor is equipped with HI (A) and LO (B) needle adjustment limiters that prevent settings outside acceptable limits



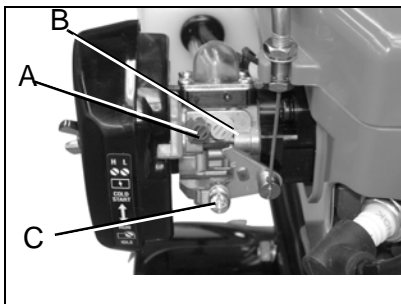
Note: Every unit is run at the factory and the carburetor is set in compliance with emission regulations. Carburetor adjustments, other than idle speed, must be performed by an authorized ECHO dealer.

1. Before adjusting the carburetor, clean or replace the air filter and spark arrestor screen.

## WARNING

**Sharp rotating tines! Do not allow tines to touch anything during carburetor adjustment. Contact with revolving tines will cause severe injury.**

2. Start engine and run for several minutes to reach operating temperature.
3. Stop engine. Turn HI (A) speed needle CCW (counter clockwise) to stop. Turn LO (B) speed needle midway between full CCW and CW (clockwise) stops.
4. *Idle Speed Adjustment*



- Start engine and turn idle speed adjustment screw (C), CW until the tines begin to turn, then turn the screw CCW until tines stop turning. Turn screw CCW an additional 1/4 turn.
5. Accelerate to full throttle for 2-3 seconds to clear excess fuel from engine then return to idle. Accelerate to full throttle to check for smooth transition from idle to full throttle. If engine hesitates, turn LO (B) needle CCW an additional 1/8 turn and repeat acceleration. Continue adjusting until smooth acceleration results.
  6. Check HI (A) speed RPM at W.O.T. (Wide Open Throttle). HI speed RPM should be set to specifications found on "Specifications" page of this manual.
  7. Check idle speed and reset if necessary. If a tachometer is available, idle speed should be set to the specification found on "Specifications" page of this manual.

**! WARNING**

*When carburetor adjustment is completed, the cutting attachment should not move at idle, otherwise serious personal injury may result.*

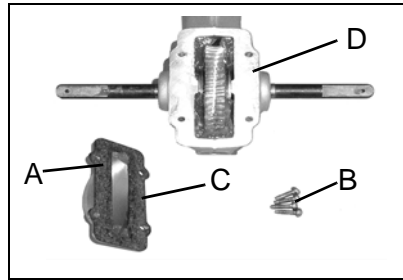
**Lubrication**

**Level 1.**

Parts Required: Lithium Base Grease.

**Gear Housing**

1. Remove tines (See Tine Removal/Cleaning - Installation below).
2. Remove gear case cover (A). Be careful not to tear sealing gasket (C).
3. Support tiller with exposed gear case (D) upward. Add grease until nearly level with top of gear case (D).



**NOTICE**

*Do not over fill. Too much grease will cause pressure and possible seal failure.*

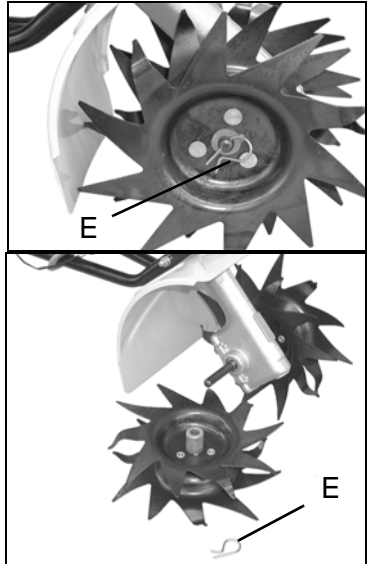
**Tine Removal/Cleaning - Installation**

Note: Always wear gloves to protect hands from sharp blades.

**! WARNING**

*Stop engine and disconnect spark plug wire before removing or installing tines. Contact with revolving tines will cause severe injury.*

1. Remove retaining pin (E) and slide tine from shaft.
2. Remove weeds, etc. from tines and wash dirt from unit.
3. Clean accumulated dirt and debris form gear housing and tine shaft.
4. Select "Tilling" or "Cultivating" position, and install tines facing forward (tilling) or rearward (cultivating).
5. Slide tine on shaft, long hub first. D-hole (hole with flat side) goes to the outside. (D-hole in outer hub aligns with flat on shaft.)
6. Install retaining pin (E).



## TROUBLESHOOTING

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 Echo dealer
	Fuel at cylinder	No fuel at cylinder	Carburetor	See your Echo dealer
		Muffler wet with fuel	Fuel mixture too rich	OPEN choke  Clean or replace air filter  Adjust carburetor  See your Echo dealer
	Spark at end of plug wire	No spark	Stop switch OFF - Electrical problem - Interlock switch	Turn switch to ON  See your Echo dealer
	Spark at plug	No spark	Incorrect gap - Covered with carbon - Fouled with fuel - Plug defective	Adjust to 0.65mm (0.026 in.)  Clean or replace plug
	Engine runs, but dies or Engine does not accelerate properly	Air filter	Air filter dirty	Normal wear
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 arrestor screen		Spark arrestor screen plugged	Normal wear	Replace

ENGINE PROBLEM TROUBLESHOOTING CHART				
Problem	Check	Status	Cause	Remedy
Engine does not crank	N/A	N/A	Internal engine problem	See your Echo dealer

## 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.***

## STORAGE

## WARNING

***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.***

### Long Term Storage (Over 30 Days)

Do not store your unit for a prolonged period of time (30 days or longer) without performing protective storage maintenance which includes the following:

1. Store unit in a dry, dust free place, out of the reach of children.

## DANGER

***Do not store in enclosure where fuel fumes may accumulate or reach an open flame or spark.***

2. Place the stop switch in the "OFF" position.
3. Remove accumulation of grease, oil, dirt and debris from exterior of unit.
4. Perform all periodic lubrication and services that are required.
5. Tighten all the screws and nuts.

6. Drain fuel tank completely. Press purge bulb 6-7 times to remove remaining fuel from carburetor then drain the tank again. Close choke, start and run the engine until it stops due to lack of fuel.
7. Allow engine to cool then remove the spark plug and pour 7 cc (¼ oz.) of fresh, clean, two-stroke engine oil into the cylinder through the spark plug hole.
8. Pull the recoil starter handle 2-3 times to distribute the oil inside the engine.
9. Observe the 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.
10. Install the spark plug.

## SPECIFICATIONS

MODEL	TC-210
Length	1180 mm (46.5 in.)
Width	335 mm (13.2 in.)
Height	935 mm (36.8 in.)
Weight (dry) w/tines	9.7 kg (21.3 lb.)
Engine Type	Air cooled, two-stroke, single cylinder gasoline engine
Bore	32.2 mm (1.27 in.)
Stroke	26.0 mm (1.02 in.)
Displacement	21.2 cc (1.29 cu. in.)
Exhaust	Spark arrestor muffler or spark arrestor muffler with catalyst
Carburetor	Diaphragm w/purge pump
Ignition System	Flywheel magneto, capacitor discharge ignition type
Spark Plug	NGK BPMR-8Y (Gap 0.65 mm (0.026 in.))
Fuel	Mixed (Gasoline and Two-stroke Oil)
Fuel/Oil Ratio	50 : 1 Power Blend X™ or ECHO Red Armor® ISO-L-EGD (ISO/CD 13738) and J.A.S.O. M345- <u>FD</u> , two-stroke, air-cooled engine oil.
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	Power Blend X™ or ECHO Red Armor® Premium Universal 2-Stroke Oil
Fuel Tank Capacity	0.5 lit. (16.9 US fl. oz.)
Starter System	Automatic Rewind Starter
Clutch	Centrifugal Type
Gear Case Ratio	Worm Gear Type (42:1 Ratio)
Tines	Special 10 Tooth Design
	•229 mm (9") Cultivating swath 4 tines
	•229 mm (9") Diameter"
Idle Speed	3,000 RPM
Clutch Engagement Speed	3,800 RPM
Wide Open Throttle Speed (W.O.T.)	11,000 RPM

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## PRODUCT REGISTRATION

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### 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, Inc. 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 Inc., 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](http://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 ofertas especiales. Simplemente visite: [www.echo-usa.com](http://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](http://www.echo-usa.com)

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Registering your purchase enables us to contact you in the unlikely event of a service update or product recall and verifies your purchase. We will not share your information with third parties without your consent. Please do not register your purchase more than once. The registration of your purchase is subject to the terms and conditions of the registration card. We reserve the right to modify the registration card at any time without notice. L'enregistrement de votre achat nous permettra de vous contacter dans le cas improbable de modifications des instructions d'emballage ou de rappel du produit et vérifier que vous êtes le propriétaire en cas de vol ou de perte.

Primary use of tool:  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 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  
 Visitéz-vous le site ECHO avant de acheter votre produit?  Si  Non  
 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  
 ¿Que 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

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NOTES

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