

Grass Trimmer

Operator's Manual

MODEL

GT-200R

Serial Number 05147301 - 05999999



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 A DANGER

Read rules for safe operation and instructions carefully. ECHO provides an Operator's Manual and a Safety Manual. Both must be read and understood for proper and safe operation.

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INTRODUCTION

Welcome to the ECHO family. This ECHO product was designed and manufactured to provide long life and on-thejob-dependability. Read and understand this manual and the SAFETY MANUAL you found in the same package. You will find both easy to use and full of helpful operations tips and SAFETY messages.

THE OPERATOR'S MANUAL

Read and understand this manual before operation. Keep it in a safe place for future reference. It contains specifications and information for operation, starting, stopping, maintenance, storage, and assembly specific to this product.

THE SAFETY MANUAL

Read and understand this manual before operation. Keep it in a safe place for future reference. It explains possible hazards involved with the use of Grass Trimmers and Brush cutters and what measures you should take to make their use safer.





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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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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.



This symbol accompanied by the words **WARNING** and **DANGER** calls attention to an act or condition that can lead to serious personal injury to operator and bystanders.



The circle with the slash symbol means whatever is shown within the circle is prohibited.



IMPORTANT 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.

SAFETY

Locate these safety decals on your unit. Make sure the decals are legible and that you understand and follow the instructions on them. If a decal cannot be read, a new one can be ordered from your ECHO dealer. See PARTS ORDERING instructions for specific information.

Hot Decal (near muffler)



P/N 89016006361

ENGLISHTRANSLATION



WARNING A DANGER

This unit can be dangerous and cause serious injury if improperly used. To reduce injury risk to operator, helpers and bystanders, read and understand the Operator's and Safety Manuals, which are provided in Spanish.

SPANISHDECAL



890228-09560

ADVERTENCIA

PELIGRO

Esta unidad puede ser peligrosa y producir lesiones personales graves si no se usa en forma adecuada. Para reducir el riesgo de lesionarse, los operadores, los ayudantes y los espectadores deben leer y comprender el Manual Del Operador y los Manuales De Seguridad que se entregan escritos en español.



Shaft Decal

WARNING A DANGER

- This unit can be dangerous and cause serious injury if improperly used. To reduce injury risk to operator, helpers and bystanders, read and understand the Operator's and Safety manuals.
- Blindness can occur from objects that are thrown or ricocheted even with shield in place. Operators, helpers and bystanders must wear ANSI Z87.1 approved eye protection.
- Always wear hearing protection when operating unit.
- · Prevent accidental contact with unit and any cutting attachment. Maintain a 15m (50 ft.) radius, **DANGER ZONE** surrounding the operator. **ONLY** the operator, dressed in proper protective clothing should be in the DANGER ZONE.
- DONOTINSTALLMETALBLADESONGT(GRASSTRIMMER) MODELS.
- Cutting attachment does not stop immediately after releasing throttle. Keep hands and feet clear of blade/cutting attachment unless engine is shut off and cutting attachment is not moving.

P/N 89031744530









INTERNATIONAL SYMBOLS

SYMBOL FORM/ SHAPE	SYMBOL DESCRIPTION/APPLICATION	SYMBOL FORM/ SHAPE	SYMBOL DESCRIPTION/APPLICATION
③	Read and understand Operator's Manual.		FUEL AND OIL MIXTURE
•	WEAR EYES, EARS AND HEAD PROTECTION		FINGER SEVERING
	HOT SURFACE	غلا	WEAR SLIP RESISTANT FOOT WEAR.
	WEAR HAND AND FOOT PROTECTION		DO NOT SMOKE NEAR FUEL.
<u> </u>	SAFETY/ALERT		DO NOT ALLOW FLAMES OR SPARKS NEAR FUEL.
§ (\$ C)	3		DERS AND HELPERS 15 M (50 FT.).

SYMBOL FORM/ SHAPE	SYMBOL DESCRIPTION/APPLICATION	SYMBOL FORM/ SHAPE	SYMBOL DESCRIPTION/APPLICATION
•	CHOKE CONTROL "COLD START" POSITION (CHOKE CLOSED)	STOP	EMERGENCY STOP
	CHOKE CONTROL "RUN" POSITION (CHOKE OPEN)	Ignition ON OFF	IGNITION ON/OFF
HE⊅∉	PRIMER BULB	Η	CARBURETOR ADJUSTMENT - HIGH SPEED MIXTURE
ns10000/min(rpm)	DO NOT EXCEED 10,000 RPM.	L	CARBURETOR ADJUSTMENT - LOW SPEED MIXTURE
SS	DO NOT OPERATE WITHOUT GUARDS AND SHIELDS IN PLACE.	T	CARBURETOR ADJUSTMENT - IDLE SPEED
	DO NOT USE BLADES. STRING LINE ONLY		BEWARE - THROWN, RICOCHET OBJECTS

SAFETY INSTRUCTIONS PERSONAL CONDITION AND SAFETY EQUIPMENT

WARNING A



DANGER

Trimmer/Brush Cutter users risk injury to themselves and others if the trimmer/brush cutter is used improperly and or safety precautions are not followed. Proper clothing and safety gear must be worn when operating a trimmer.

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

Wear eye protection that meets ANSI Z87.1 or CE requirements whenever you operate the unit.

Hand Protection

Wear no-slip, heavy-duty work gloves to improve your grip on the blower handle. Gloves also reduce the transmission of machine vibration to your hands.

Hearing Protection

ECHO recommends wearing hearing protection whenever unit is used.

Proper Clothing

Wear snug fitting, durable clothing;

- Pants should have long legs, shirts with long sleeves.
- DONOTWEAR SHORTS,
- DONOT WEAR TIES, SCARVES, and JEWELRY.

Wear sturdy work shoes with nonskid soles:

- DONOT WEAR OPEN TOED SHOES,
- DONOTOPERATEUNITBAREFOOTED.

Keep long hair away from engine and blower intake. Retain hair with cap or net.

Hot Humid Weather

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.

EXTENDED OPERATION/EXTREME CONDITIONS

Vibration and Cold --

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.

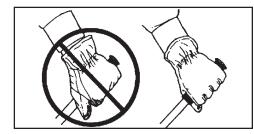
- Keep your body warm, especially the head, neck, feet, ankles, hands and wrists.
- Maintain good blood circulation by performing vigorous arm exercises during frequent work breaks and also by not smoking.
- Limit the hours of operation. Try to fill each day with jobs where operating the trimmer or other 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 --

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 in 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.





EQUIPMENT

WARNING A DANGER



Use only ECHO approved 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 fuel lines, tank and area around carburetor for fuel leaks. DO NOT operate unit if leaks are found.
- Inspect shield for damage and ensure that the cut-off knife is securely in place. Replace if either is damaged or missing.
- Check that the cutting attachment is firmly attached and in safe operating condition.
- Check that front (loop) handle and optional shoulder/waist harness are adjusted for safe, comfortable operation. See Assembly for proper adjustment.
- Have repairs done only by an authorized ECHO Service Dealer.
- Keep exhaust area clear of flammable debris. Avoid contact during and immediately after operation.



SAFE OPERATION

WARNING A DANGER



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

Read the Manuals

• Provide all users of this equipment with the Operator's Manual and Safety Manual for instructions on Safe Operation.

Clear the Work Area

• Spectators and fellow workers must be warned, and children and animals prevented from coming nearer than 15 m (50 ft.) while the unit is in use.

Keep a Firm Grip

• Hold the front and rear handles with both hands, with thumbs and fingers tightly encircling the handles.

Keep a Solid Stance

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



EMISSION CONTROL

EPA Phase 2

The emission control system for this engine is EM (Engine Modification).

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

IMPORTANT ENGINE INFORMATION

ENGINE FAMILY: 3EHXS.0214EA DISPLACEMENT: 21.2 cc EMISSION COMPLIANCE PERIOD: 300 HRS. THIS ENGINE MEETS U.S. EPA PHASE 2 EMISSION REGULATIONS FOR SMALL NONROAD ENGINES. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.



KIORITZ CORP. TIII

PRODUCT EMISSION DURABILITY

The 300 hour emission durability 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

The ECHO product you purchased has been partially assembled for your convenience. Due to packaging restrictions, installation of the plastic debris shield, nylon line head, and positioning of the front handle are 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.

* Some units may be factory pre-assembled. No assembly tools are needed and the nylon line head, plastic debris shield, and mounting hardware, shown in the contents list, are pre-assembled to the unit. Only the front handle may need to be re-positioned for comfortable operation.

CONTENTS LIST

- Trimmer Assembly:
 - Power Head
- Drive Shaft Assembly
 - Plastic Bag (Co-Pack)
 - Operator's Manual
 - Safety Manual
 - Warranty Card & Limited Warranty
 - Locking Tool, P/N 89751801131 (head locking tool)
- Safety Glasses
 - Echo Power Blend TM 2-stroke oil sample
- 12 pcs. 8 in. x .080 Pre-cut Nylon Line
- Rapid LoaderTM 2-line Head
- Shield Assembly
- Line Head Mounting Hardware:
- 3/8-24 Locknut
- Small Washer
- Large Washer
- Locking Tool, P/N 89751801131 (wrench handle)
- Wrench 17 x 14.5, P/N X602000031





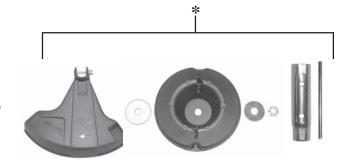




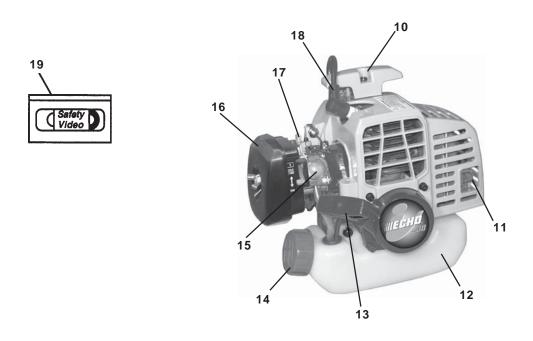


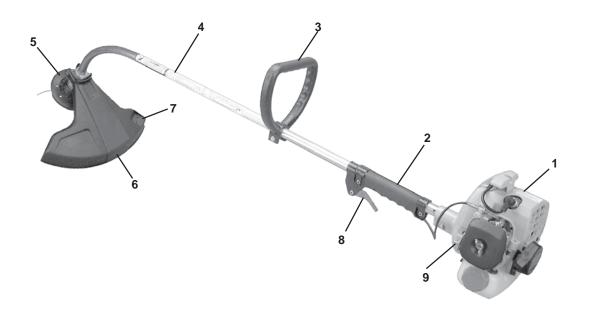












- 1. **POWER HEAD** Factory Assembled to the Driveshaft assembly. Includes the Engine, Clutch, Fuel System, Ignition System and Recoil Starter.
- 2. **GRIP** Rear (right hand) handle.
- 3. **FRONT HANDLE** The Front (loop) handle is factory assembled to the Drive Shaft assembly but must be repositioned for proper cutting attitude and operator comfort.
- 4. **DRIVESHAFT ASSEMBLY** Factory Assembled to the Power Head. Includes the Rear (right hand) Handle Assembly, Bearing Housing Assembly, Throttle Trigger, Front (loop, left hand) Handle Assembly, Flexible Drive Cable and Safety Decals.
- 5. **RAPID LOADER**TM **HEAD** Contains replaceable nylon trimming lines.
- 6. **PLASTIC DEBRIS SHIELD ASSEMBLY** Included in plastic bag (co-pack). **MUST** be installed on unit before use, see Assembly Instructions. Shield assembly includes the Cut-Off Knife. Mounts on the Gear Housing Assembly just above the cutting attachment. Helps protect the operator by deflecting debris produced during the trimming operation.
- 7. **CUT-OFF KNIFE** Trims line to the correct length.
- 8. **THROTTLE TRIGGER** Spring loaded to return to idle when released. During acceleration, press trigger gradually for best operating technique.
- 9. STOP SWITCH "TOGGLE SWITCH" mounted on the engine. Move switch UP to RUN, DOWN to STOP.
- 10. **ARM REST** Provides arm rest during operation and protects arm from hot engine.
- 11. **SPARK ARRESTOR CATALYTIC MUFFLER/MUFFLER -**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.
- 12. **FUEL TANK** Contains fuel and fuel filter.
- 13. *i-*30 Recoil Starter/Handle *i*30 spring-assisted recoil starter requires 30% less pulling force than standard recoil starter. 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.
- 14. **FUEL TANK CAP** Cover and seals fuel tank opening.
- 15. **PRIMER BULB** Pumping primer bulb before starting engine draws fresh fuel from the fuel tank priming the carburetor for starting. Pump primer bulb until fuel is visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.
- 16. **AIR CLEANER** Contains replaceable filter element.
- 17. **CHOKE** Located at the rear of the air cleaner housing. Move choke lever to "Cold Start" () to close choke for cold starting. Move choke lever to "Run" () position to open choke.
- 18. **SPARK PLUG** Provides spark to ignite fuel mixture.
- 19. **SAFETY VIDEO** (Not included with unit) P/N 99922202540 English version and P/N 99922203508 Spanish version are available at a cost of \$5.00 from ECHO, INC. or any authorized ECHO dealer. The video overviews safety precautions and proper operating techniques and is supplemental to the Safety Manual. Read and understand the Safety Manual for complete information on safe operation.



SPECIFICATIONS

Length 1400mm(55.1 in.) Width 310mm(12.2 in.) Height 385mm(15.2 in.) Weight (dry) w/Cutter Head 4.1 kg (9.04 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 System Spark Arrestor Muffler Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend ™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System 30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head <th>MODEL</th> <th> GT-200R</th>	MODEL	GT-200R
Height	Length	1400 mm (55.1 in.)
Weight (dry) w/Cutter Head 4.1 kg (9.041b.) 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 System Spark Arrestor Muffler Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap 0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left - D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle S	Width	310mm(12.2in.)
Engine Type ————————————————————————————————————	Height	385 mm (15.2 in.)
Bore 32.2 mm(1.27 in.) Stroke 26.0 mm(1.02 in.) Displacement 21.2 cc (1.29 cu. in.) Exhaust System Spark Arrestor Muffler Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap 0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left -D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400-3,200 RPM	Weight (dry) w/Cutter Head	4.1 kg (9.04 lb.)
Stroke 26.0 mm(1.02 in.) Displacement 21.2 cc (1.29 cu. in.) Exhaust System Spark Arrestor Muffler Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap 0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left - D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400-3,200 RPM Wide Open Throttle Speed (W.O.T.)	Engine Type	Air cooled, two-stroke, single cylinder gasoline engine
Displacement 21.2 cc (1.29 cu. in.) Exhaust System Spark Arrestor Muffler Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap 0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left -D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400-3,200 RPM Wide Open Throttle Speed (W.O.T.)	Bore	32.2 mm(1.27 in.)
Exhaust System ————————————————————————————————————	Stroke	26.0 mm(1.02 in.)
Carburetor Zama diaphragm model RB w/primer Ignition System Flywheel magneto, capacitor discharge Spark Plug NGK BPM-8Y Gap0.65 mm (0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend ™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left - D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400 - 3,200 RPM Wide Open Throttle Speed (W.O.T.)	Displacement	21.2 cc (1.29 cu. in.)
Ignition System ————————————————————————————————————	Exhaust System	Spark Arrestor Muffler
Spark Plug NGK BPM-8Y Gap0.65 mm(0.026 in.) Fuel Mixed (Gasoline and Two-stroke Oil) Fuel/Oil Ratio 50:1 two-stroke air cooled engine oil Gasoline 89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than 10% ethyl alcohol or 15% MTBE. Oil Power Blend ™ Premium Universal 2-Stroke Oil Fuel Tank Capacity 0.45 lit. (15.2 US fl. oz.) Starter System i30 Automatic Rewind Starter Clutch Centrifugal Type Drive Shaft 1/4 in. Flex Shaft Rotating Direction Clockwise viewed from top Cutter Head Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.) Handle Left - D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400-3,200 RPM Wide Open Throttle Speed (W.O.T.)	Carburetor	Zama diaphragm model RB w/primer
Fuel	Ignition System	Flywheel magneto, capacitor discharge
Fuel/Oil Ratio	Spark Plug	NGK BPM-8Y Gap 0.65 mm (0.026 in.)
Gasoline	Fuel	Mixed (Gasoline and Two-stroke Oil)
10% ethyl alcohol or 15% MTBE. Oil	Fuel/Oil Ratio	50:1 two-stroke air cooled engine oil
Oil	Gasoline	89 Octane unleaded. DO NOT use fuel containing methyl alcohol, more than
Fuel Tank Capacity		10% ethyl alcohol or 15% MTBE.
Starter System	Oil	Power Blend ™ Premium Universal 2-Stroke Oil
Clutch	Fuel Tank Capacity	0.45 lit. (15.2 US fl. oz.)
Drive Shaft	Starter System	i30 Automatic Rewind Starter
Rotating Direction	Clutch	Centrifugal Type
Cutter Head	Drive Shaft	1/4 in. Flex Shaft
Handle Left - D-Loop, Right - Grip Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400 - 3,200 RPM Wide Open Throttle Speed (W.O.T.)	Rotating Direction	Clockwise viewed from top
Shoulder Harness Optional P/N 99944200201 Idle Speed (RPM) 2,400-3,200 RPM Wide Open Throttle Speed (W.O.T.)	Cutter Head	Nylon line head (2-line) with .080 Line capacity 203 mm (8 in.)
Idle Speed (RPM)2,400-3,200 RPM Wide Open Throttle Speed (W.O.T.)	Handle	Left - D-Loop, Right - Grip
Wide Open Throttle Speed (W.O.T.)	Shoulder Harness	Optional P/N 99944200201
	Idle Speed (RPM)	2,400-3,200RPM
with Nylon Line Head (RPM) 6,800-8,800 RPM	Wide Open Throttle Speed (W.O.T.)	
	with Nylon Line Head (RPM)	6,800 - 8,800 RPM

ASSEMBLY

Tools Required: Locking Tools (2), Wrench 17 x 14.5 (9/16 in.)

Parts Required: Rapid LoaderTM Head, Large washer, Small washer,

3/8-24 Locknut, (2) Pre-cut Nylon Line 8 in. x.080 in.,

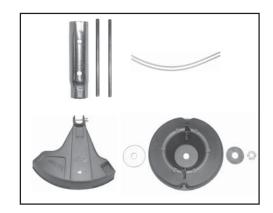
Plastic Shield Assembly





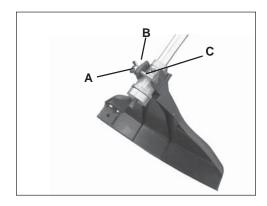
DANGER

Cut-off knife on debris shield has sharp edges. Avoid contact when installing or removing line head.



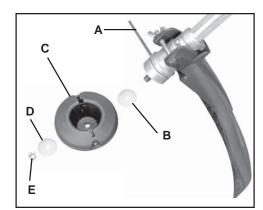
PLASTIC SHIELD INSTALLATION

- 1. Remove wing nut (A), washer (B), and bolt (C).
- 2. Snap the shield over the bearing housing.
- 3. Install bolt (C), washer (B), and wing nut (A).



NYLON LINE HEAD INSTALLATION

- 1. Remove plastic threaded shaft sleeve from threaded PTO shaft.
- 2. Align locating hole in upper plate with hole in bearing housing and insert 5 mm (3/16 in.) diameter locking tool (A).
- 3. Place large washer (B) then line head (C) on threaded shaft, followed by small metal washer (D) and locknut (E).
- 4. Install 3/8-24 locknut using 14.5 mm (9/16 in.) wrench. Turn locknut clockwise, and tighten securely.



IMPORTANT

Remember to remove the locking tool.

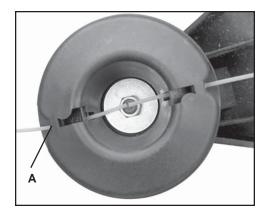


NYLON LINE INSTALLATION

- 1. Shut engine off. Lay unit on the ground with head assembly up.
- 2. Remove old nylon line through center recess of head.
- 3. Thread new lines through outside holes (A) in housing until ends meet in center of recess.

NOTE

Insert cutting line ends to center of head recess to insure easy removal of used lines.

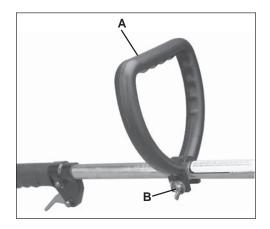


FRONT (LOOP) HANDLE

NOTE

Front handle is pre-installed. Re-positioning and tightening is all that is required.

1. Position front handle (A) in comfortable operating position and tighten wing nut (B). The cutting attachment should be 5-7.5 cm (2-3 in.) above the ground and as level as possible.



PRE - OPERATION

FUEL

Fuel Requirements

Gasoline - Use 89 Octane [R+M] (mid grade or higher) gasoline known to be good quality. Gasoline may contain up to 15% MTBE (methyl tertiary-butyl ether). Gasohol containing methyl (wood) alcohol is NOT approved.

Two Stroke Oil - A two-stroke engine oil meeting ISO-L-EGD (ISO/CD 13738) and J.A.S.O. FC Standards must be used. Echo brand premium Power Blend [™] Universal 2-Stroke Oil meets these standards. Engine problems due to inadequate lubrication caused by failure to use an ISO-L-EGD and J.A.S.O. FC certified oil, such as Echo premium Power BlendTM, will void the two-stroke engine warranty. (Emission related parts only are covered for two years, regardless of two-stroke oil used, per the statement listed in the Emission Defect Warranty Explanation.)

IMPORTANT

Echo premium Power Blend TM Universal 2-Stroke Oil may be mixed at 50:1 ratio for application in all Echo engines sold in the past regardless of ratio specified in those manuals.

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 and remix.
- 5. Install fuel container cap and wipe any spilled fuel from container and surrounding area.

Handling Fuel

WARNING A 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!
- NEVER refuel a unit with the engine running.
- DO NOT fill fuel tanks indoors. ALWAYS fill fuel tanks outdoors over bare ground.
- Securely tighten fuel cap after refueling.
- Inspect for fuel leakage. If fuel leakage is found, do not start or operate unit until leakage is repaired.

IMPORTANT

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. Contact your ECHO dealer for ordering information.

After refueling;

- Wipe any spilled fuel from the unit.
- Move at least 3 m (10 ft.) from refueling location before starting the engine.

After use:

• DO NOT store a unit with fuel in its tank. Leaks can occur. 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, air tight container. Store in a well ventilated, unoccupied building, away from sparks and flames. Do not store fuel longer than 30 days.

IMPORTANT

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.

IMPORTANT

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



OPERATION STARTING COLD ENGINE

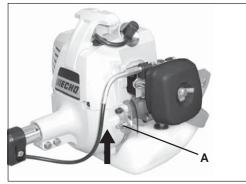
WARNING **A**



DANGER

The attachment will operate immediately when the engine starts and could result in loss of control and possible serious injury. Keep movable parts of the attachment off the ground and away from objects that could become entangled or thrown.

1. Stop Switch Move stop switch (A) away from the STOP position.

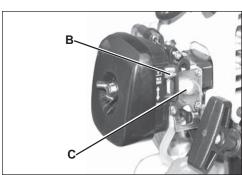


2. Choke

Move choke (B) to "Cold Start" () Position.

3. Primer

Pump primer bulb (C) until fuel will be visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.

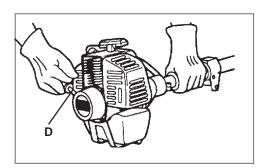


4. Recoil Starter

Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Firmly grasp right hand grip with left hand and fully depress throttle trigger to wide open position. Rapidly pull recoil starter handle/rope (D) until engine fires (or maximum five [5] pulls).

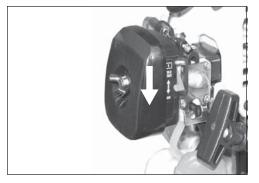
5. Choke

After engine fires or five (5) pulls, move choke lever back to "Run" () position. Hold throttle trigger fully depressed and pull starter handle/rope until engine starts and runs. Release throttle trigger and allow unit to warm up at idle for several minutes.



If engine does not start with choke in "Run" position after 5 pulls, repeat instructions.

6. 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, and do not depress throttle trigger to wide open position.

WARNING **A**



DANGER

The attachment should not move at idle, otherwise serious personal injury may result.

NOTE

If attachment moves, readjust carburetor according to "Carburetor Adjustment" instructions in this manual or see your ECHO Dealer.

1. Stop Switch Move stop switch (A) away from the STOP position

2. Primer

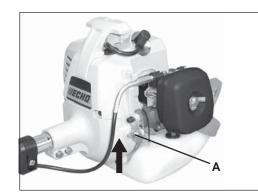
Pump primer bulb (C) until fuel will be visible and flows freely in the clear fuel tank return line. Pump bulb an additional 4 or 5 times.

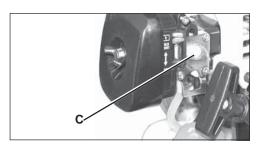
3. Recoil Starter

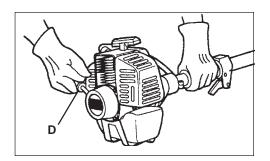
Lay the unit on a flat area and keep movable attachment parts clear of all obstacles. Rapidly pull recoil starter handle/rope (D) until engine fires.

NOTE

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







STOPPING ENGINE

1. Throttle

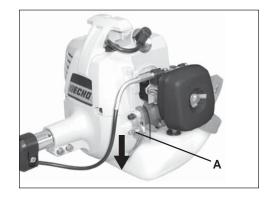
Release throttle and allow engine to return to idle before shutting off engine.

2. Stop Switch

Move stop switch button (A) backward to STOP position.

WARNING A DANGER

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





MAINTENANCE

Your ECHO trimmer is designed to provide many hours of trouble free service. Regular scheduled maintenance will help your trimmer achieve that goal. If you are unsure or are not equipped with the necessary tools, you may want to take your unit to an ECHO Service 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 LEVEL

Level 1 = Easy to do. Most required tools come with unit.

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

Level 3= Experience required. Specialized tools are required. ECHO recommends

that the unit be returned to your ECHO dealer for servicing.

ECHO offers **REPOWER**TM Maintenance Kits and Parts to make your maintenance job easier. Just below each task heading are listed the various part numbers required for that task. See your ECHO dealer for these parts.

MAINTENANCE INTERVALS

COMPONENT/ SYSTEM	MAINTENANCE PROCEDURE	REQ'D SKILL LEVEL	DAILY OR BEFORE USE	EVERY REFUEL	3 MONTHS OR 90 HOURS	6 MONTHS OR 270 HOURS	YEARLY 600 HOURS
	Recommended Echo Dealer Maintenance Procedures						
Carburetor	Inspect/Clean/Replace	3				I / C (1)	R (1)
Cylinder Exhaust Port	Inspect/Clean/Decarbon	3			I/C		
	Do-lt-Yourse	If Mainter	nance Proce	dures			
Air Filter	Inspect/Clean/Replace	1	I/C		R*		
Choke	Inspect/Clean	2	I/C				
Fuel Filter	Inspect/Replace	1			I		R *
Fuel Line	Inspect/Replace	1	I *	I			
Cooling System	Inspect/Clean	2	I/C				
Muffler Spark Arrestor	Inspect/Replace	2			I / R *		
Drive Shaft	Grease	2			I (2)		
Gear Housing	Grease	2			I (3)		
Recoil Starter Rope	Inspect/Clean	1	I/C*				I/R*
Fuel Leaks	Inspect	1	I *	I *			
Spark Plug	Inspect/Clean	2			I/C	R *	
Screws/Nuts/Bolts	Inspect/Tighten/Replace	1	I/R*				

MAINTENANCE PROCEDURE LETTER CODES: I = INSPECT, R = REPLACE, C = CLEAN

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

MAINTENANCE PROCEDURE NOTES:

- (1) Replacement will be required for Commercial use after 600 hours. For Consumer use, cleaning every 6 months is required.
- (2) Apply ECHO_® LUBE™ every 50 hours of use. (3) Apply ECHO_® LUBE™ every 15-25 hours of use.
- All recommendations to replace are based on the finding of damage or wear during inspection..

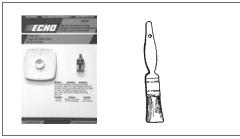
AIR FILTER

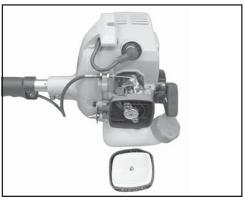
Level 1.

Tools required: 25 or 50 mm (1 or 2 in.) Cleaning brush

Parts required: 90008 REPOWER™ AIR & FUELFILTER 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 the air cleaner area.
- 2. Remove the air cleaner cover. Clean and inspect the element for damage. If element is fuel soaked and very dirty, replace.
- 3. If element can be cleaned and reused, be certain it:
 - still fits the cavity in the air cleaner cover.
 - is installed with the original side out.







NOTE

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

FUEL FILTER

Level 1.

Tools required: 200-250 mm (8-10 in.) length of wire with one end bent

into a hook, clean rag, funnel, and an approved fuel

container.

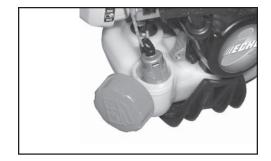
Parts required: 90008REPOWER™AIR & FUELFILTER KIT



WARNING A DANGER

Fuel is VERY flammable. Use extreme care when mixing, storing or handling.

- 1. Use a clean rag to remove loose dirt from around fuel cap and empty fuel tank.
- 2. Use the "fuel line hook" to pull the fuel line and filter from the tank.
- 3. Remove the filter from the line and install the new filter.



SPARK PLUG

Level 2.

Tools Required: Spark Plug socket wrench and screw driver, feeler

gauge, soft wire brush.

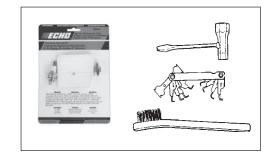
Parts Required: REPOWER™ Tune-Up Kit P/N 90074

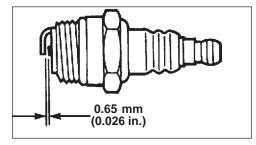
 Remove spark plug and check for fouling, worn and rounded center electrode.

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 145-155 kg/cm (125-135 in. lb.).





COOLING SYSTEMS CLEANING

Level 2.

Tools required: Cross head screwdriver, 3 mm Hexagon wrench,

pointed wood stick, 25-50 mm (1-2 in.) cleaning brush

Parts Required: None.

IMPORTANT

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:

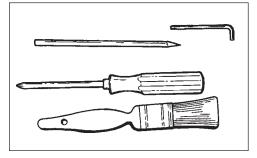
- Air intakes are blocked, preventing cooling air from reaching the cylinder.
- Dust and grass build up on the outside of the cylinder. This build up insulates the engine and prevents the heat from leaving.

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

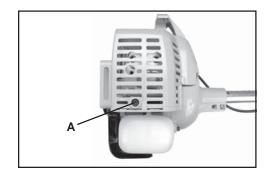
- 1. Remove spark plug lead from spark plug.
- 2. Remove muffler cover bolt (A)
- 3. Remove four screws that retain the engine cover. Two at the top of the Recoil Starter, two on either side of the front. Lift the cover from the engine.

NOTE

The spark plug lead and grommet remain in the engine cover.







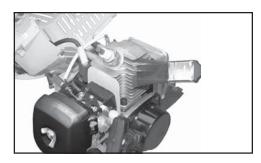
IMPORTANT

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

- 4. Use the brush to remove dirt from the cylinder fins.
- Remove grass and leaves from the grid between the recoil starter and fuel tank.
- 6. Assemble components in reverse order.

NOTE

When installing the cover, be certain the tabs of the deflector shield are in the slot of the cover.





EXHAUST SYSTEM

Spark Arrestor Screen

Level 2.

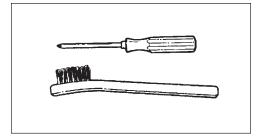
Tools Required: Cross head screwdriver, soft metal brush

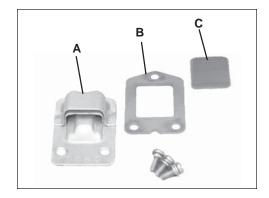
Parts Required: Screen P/N 14586240630, Gasket P/N 14586642031

WARNING A DANGER

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.

- 1. Remove engine cover, see "Cooling System Cleaning" pages 18 and 19 for step by step instructions.
- 2. Remove spark arrestor screen cover (A), gasket (B), and screen (C) from muffler body.
- 3. Clean carbon deposits from muffler components.
- 4. Replace screen if it is cracked, plugged or has holes burned through.
- 5. Assemble components in reverse order.







Cylinder Exhaust Port

Level 3.

IMPORTANT

The cylinder exhaust port must be inspected and cleaned of excess carbon every 3 months or 90 hours of operation in order to maintain this engine within the emissions durability period. ECHO strongly recommends that you return your unit to your ECHO dealer for this important maintenance service.

CARBURETOR ADJUSTMENT

Engine Break-In

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

High Altitude Adjustment

High altitude adjustment is not required for proper operation of this engine.

Level 2.

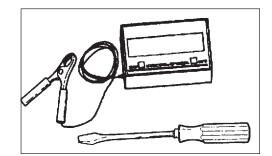
Tools required: Screwdriver, Tachometer (ECHOP/N 99051130017)

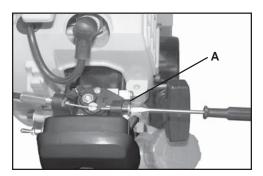
Parts required: None.

NOTE

Every unit is run at the factory and the carburetor is set in compliance with emissions regulations. This carburetor does not have acceleration and high speed adjustment needles.

- Before adjusting the carburetor, clean or replace the air filter and spark arrestor screen.
- Start engine and run for several minutes to reach operating 2. temperature.
- Check idle speed and reset if necessary. If a tachometer is available, idle speed screw (A) should be set to the specifications found on page 10 "Specifications" of this manual. Turn idle screw (A) clockwise to increase idle speed; counter clockwise to decrease idle speed.





WARNING A DANGER



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

LUBRICATION

Level 1.

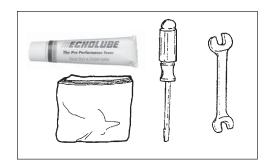
Tools Required: 8mm Open end wrench, screwdriver, clean rag.

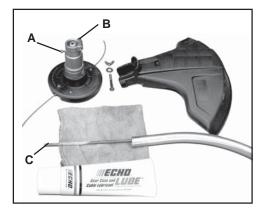
Parts Required: $ECHO_{\odot}LUBE^{TM}8$ oz. (P/N 91014) or Lithium Base

Grease.

1. Remove plastic shield.

- 2. Loosen bearing housing locating screw (A), at the top of the housing, loosen mounting screw (B) and remove gear case from drive housing.
- 3. Pull the flexible drive shaft (C) from the drive housing, wipe clean and recoat with a thin coating [1/2 oz. (15 ml)] of grease.
- 4. Slide the flexible drive shaft back in the drive housing being careful not to get dirt on the flexible drive shaft.
- 5. Install the bearing housing and shield.







TROUBLESHOOTING

ENGINE PROBLEM TROUBLESHOOTING CHART					
Problem	Check	Status	Cause	Remedy	
	Fuel at carburetor	No fuel at carburetor	Fuel strainer clogged Fuel line clogged Carburetor	Clean or replace Clean or replace See your Echo dealer	
		No fuel at cylinder	Carburetor	See your Echo dealer	
Engine cranks - starts hard/	Fuel at cylinder	Muffler wet with fuel	Fuel Mixture too rich	Open choke Clean/replace air filter Adjust carburetor See your Echo dealer	
doesn't start	Spark at end of plug wire	No spark	Stop switch off Electrical problem Interlock switch	Turn switch to ON See your Echo dealer See your Echo dealer	
Spa	Spark at plug	No spark	Spark gap incorrect Covered with carbon Fouled with fuel Plug defective	Adjust to .65mm (0.026 in.) Clean or replace Clean or replace Replace plug	
	Air filter	Air filter dirty	Normal wear	Clean or replace	
	Fuel filter	Fuel filter dirty	Contaminants/residues in fuel	Replace	
Engine runs,	Fuel vent	Fuel vent plugged	Contaminants/residues in fuel	Clean or replace	
but dies or does not	Spark Plug	Plug dirty/worn	Normal wear	Clean and adjust or replace	
accelerate properly	Carburetor	Improper adjustment	Vibration	Adjust	
	Cooling System	Cooling system dirty/plugged	Extended operation in dirty/dusty locations	Clean	
	Spark Arrestor Screen	Spark arrestor screen plugged	Normal wear	Replace	
Engine does not crank	N/A	N/A	Internal engine problem	See your Echo dealer	

WARNING A DANGER

Fuel vapors are **extremely** flammable and may cause fire and/or explosion. **Never** test for ignition spark near an open spark plug opening, otherwise serious personal injury may result.

STORAGE

Long Term Storage (over 30 days)

WARNING A DANGER

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.

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.



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** the fuel tank **completely** and pull the recoil starter handle several times to remove fuel from the carburetor.

- 7. Remove the spark plug and pour 7 cc (1/4 oz.) of fresh, clean, two-stroke engine oil into the cylinder through the spark plug hole.
 - A. Place a clean cloth over the spark plug hole.
 - B. Pull the recoil starter handle 2-3 times to distribute the oil inside the engine.
 - C. Observe the piston location through the spark plug hole. Pull the recoil starter handle slowly until the piston reaches the top of it's travel and leave it there.
- 8. Install the spark plug (do not connect spark plug cable).

SERVICING INFORMATION

PARTS

Genuine ECHO Parts and ECHO REPOWERTM 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, Type and Serial Number of the unit with you. You can find these numbers on the engine housing. For future reference, write them in the space provided below.

Model No. ______SN. ____SN.

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. 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 you may call the ECHO Consumer Product Support Department at 1-800-673-1558 from 8:30 am to 4:30 pm (Central Standard Time) Monday through Friday. Before calling, please know the model and serial number of your unit to help your Consumer Product Support Representative.

WARRANTY REGISTRATION

You may register your Echo equipment using the warranty registration card or register on-line at www.echo-usa.com. Registering provides a direct link between you and ECHO if we find it necessary to contact you.



DEALER?
Call
1-800-432-ECHO
or
www.echo-usa.com

CONSUMER PRODUCT SUPPORT 1-800-673-1558 8:30 - 4:30 Mon - Fri C.S.T.



ADDITIONAL OR REPLACEMENT MANUALS

<u>Safety Manuals</u> in English/Spanish or English/French are available, free of charge, from your ECHO dealer or at www.echo-usa.com.

Operator's and Parts Manuals are available by:

- Downloading free from www.echo-usa.com
- Purchasing from your Echo Dealer.
- Manuals are available by sending a written request stating the model number and serial number of your Echo unit, part number of the manual, your name and address, and mail to the address below.

Safety Videos are available from your Echo dealer. A \$5.00 shipping charge will be required for each video.

Available Parts Catalog

GT-200R S/N 05001001 - 05999999

Part Number 99922203366

