BEFORE USING THIS PRODUCT, CAREFULLY READ THROUGH MANUAL AND RETAIN IT FOR FUTURE REFERENCE. ECHO1USA AUTOMATIC ELECTRIC GUNS ARE INTENDED FOR AGES 18 AND ABOVE. THIS PRODUCT MAY CAUSE SERIOUS INJURY IF MISUSED. FULL FACE PROTECTION IS REQUIRED.
Before using this product, carefully read through manual and retain it for future reference. Echo1usa automatic electric guns are intended for ages 18 and above. This product may cause serious injury if misused. Full face protection is required.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>SOB 1</th>
<th>SOB 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>7.6 lbs</td>
<td>7.3 lbs</td>
</tr>
<tr>
<td><strong>Barrel Length</strong></td>
<td>229 mm</td>
<td>145 mm</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td>660 / 735 mm</td>
<td>390 / 650 mm</td>
</tr>
<tr>
<td><strong>Barrel Caliber</strong></td>
<td>6.06 mm</td>
<td>6.06 mm</td>
</tr>
<tr>
<td><strong>Ammo Capacity</strong></td>
<td>200 rounds</td>
<td>200 rounds</td>
</tr>
<tr>
<td><strong>BB Size</strong></td>
<td>6 mm</td>
<td>6 mm</td>
</tr>
<tr>
<td><strong>Feet Per Second</strong></td>
<td>400 fps</td>
<td>360 fps</td>
</tr>
<tr>
<td><strong>Battery Type</strong></td>
<td>8.4v Crane Type</td>
<td>9.6v Stick</td>
</tr>
</tbody>
</table>
Parts of the Gun

SOB 1

Magwell Pin
Charging Handle
RIS
Hand Guard Pin
Flash Hider

14mm CCW
Magazine Release
Trigger
Ambi Fire Selector
Motor Set Screw

Optic Rail
Rear Sling Loop
Crane Stock

Stock Pad
Rear Sling Loop
Stock Adjustment Lever
Castle Nut
Stock Pin

Removal or Tampering of the Flash Hider will VOID the warranty
Parts of the Gun (Cont.)

SOB 1

- Optic Rail
- Stock Adjustment Layer
- Ambi Fire Selector
- Mag Release
- RIS Hand Guard

Removal or Tampering of the Flash Hider will VOID the warranty.
Parts of the Gun

SOB 2

Removal or Tampering of the Flash Hider will VOID the warranty.
Parts of the Gun (Cont.)

SOB 2

- Optic Rail
- Stock Adjustment Layer
- Ambi Fire Selector
- Removal or Tampering of the Flash Hider will VOID the warranty
- RIS Hand Guard
- Mag Release
Ambi Fire Selection

SAFE:
Trigger is secure and cannot fire

SEMI:
With one trigger pull one BB is fired

AUTO:
Gun will fire automatically while trigger is pulled

Operational Tips:
If the trigger is stuck or jammed in SEMI mode please select AUTO and fire several times to reset the cut off lever. Low battery power can cause this jam. The Fire Selectors will move with ease. Forcing the Fire Selectors may cause damage.

How to use the Magazine

Avoid getting dirt and debris into the magazine this can cause it to malfunction. Only use Echo1USA BBs into your Echo1USA Airsoft Rifle. The use of .12g or ‘low grade’ BBs will damage your Airsoft Rifle and VOID the warranty.

1. Press the magazine release to remove the magazine from the gun.

   Mag Catch
   BB Entrance
   Top Hatch
   BB Stop Lever
   BB Exit

   Magazine Wheel

2. Open the Top Hatch and load BBs. About 200 BBs can be loaded. Do not force the BBs into the magazine.

3. Close the Top Hatch.

4. Hold the Mag with the BB Top Hatch facing up and turn the Mag Wheel. You will see a BB move to the BB Exit and stop. Once a BB has reached the BB Exit continue to turn the Mag Wheel for approximately 15 more turns.

Operation Tips:
• Use caution when mag seems empty.
• There are about 20 BBs left in the loading tube even after mag is out of BBs.
• Turn the Mag Wheel 7-10 times for every 20-40 BBs fired.
• Turning the Mag Wheel may cause damage.
• For storage pull back on the BB Stop Lever to release the remaining BBs and ensure proper operation for next use.
• If the mag is not feeding correctly please apply silicone oil to the Mag Wheel and into the BB Entrance to lubricate the moving parts.
Battery Charging

Charge the battery for 3 hours for the first time. When charging have the battery away from ALL COMBUSTIBLE MATERIALS and on a cool hard surface. If battery becomes HOT remove and charger and let it COOL before use. When cycle rate becomes slow, STOP shooting and remove the magazine. Shoot 2 times in SEMI to clear the gun, remove the battery and recharge.

Basic Charge Time:
Battery: 1500 mAh / Charger: 300mAh = Estimated Charge Time: 5 Hours

Battery Installation

Step 1. Gently press inward the two tabs on the Stock Pad. About 2mm and should be clear. Pull back on the stock pad to remove.

Step 2. Insert the battery cells on either side of the crane stock. Gently pull out the wire to expose the plug for connection.

Step 3. Slide the battery into the crane stock and tuck the fuse and plug back into the metal tube.

Step 4. To attach the stock pad you will need to reverse the steps. Press in on the top tab and pivot inward. Gently press on and make sure not to damage any parts. Please notice the wires going through the slots in the stock pad for correct install.

CAUTION: Please be gentle when removing the stock pad. The parts can be broken if abused. The warranty does not cover abuse.
**Battery Charging**

Charge the battery for 3 hours for the first time. When charging have the battery away from ALL COMBUSTIBLE MATERIALS and on a cool hard surface. If battery becomes HOT remove and charger and let it COOL before use. When cycle rate becomes slow, STOP shooting and remove the magazine. Shoot 2 times in SEMI to clear the gun, remove the battery and recharge.

**Basic Charge Time:**
Battery: 1500 mAh / Charger: 300mAh = Estimated Charge Time: 5 Hours

**Battery Installation**

**Step 1.** Gently press the two pins for the stock and one pin for the hand guard out and away from the body of the gun. You will have to remove the stock and hand guard for battery install.

**Step 2.** To insert the 9.6v stick battery first straighten the wires if needed. Notice the wire along side the row of battery cells. Keep the wire or spine to the bottom left or right as you slide the battery into the gun.

**Step 3.** Slide the stick battery all the way into the gun. Make sure the wire spine is on either side on bottom side for correct install. You might have to use a tool to pull the plug out the other end.

**Step 4.** Gently pull the plug out and connect the plugs. Once the battery is installed you can leave in the gun for recharge if desired. Reverse the steps to install the stock and hand guard.
Hop Up Unit Adjustment

The Hop Up Unit adds a back spin to the BB to allow a longer flight path. Before use please do so in a safe location and make sure nobody is behind the target. When using different weight BBs you will have to make adjustments. When not in use please turn the Hop Up Unit off.

**Step 1.** To access the Hop Up Unit pull back the Charging Handle. The Charging Handle can be pulled back and locked in the up position.

**Step 2.** To adjust the hop up unit you will have slide the bar back or forth. Adding UP will add more hop up effect and turning OFF will turn the hop up unit off. Once you find the best setting you can release the charging handle.

Hop Up Unit Cleaning

Cut the cloth or paper towel in the size as shown above. Fold the material to fit through the loop. Adjust the length of the material to smoothly enter the barrel. Otherwise too much material will get jammed in the inner barrel and can cause the hop up bucking to get out of place.

1) Turn the hop up unit off. Disconnect the battery, and remove the magazine. Spray silicone oil into the hop up chamber from the magwell for 1 sec. and fire 10-15 bbs to oil inner barrel and hop up parts.
2) Fire 2 shots with magazine removed to clear gun of bbs and disconnect battery.
3) With a twisting motion gently push the cloth and rod down the barrel. Inspect cloth and if dirty repeat 2-3 times until clean

Note: you can apply silicone oil directly to the cloth as well.

If there is too much oil in barrel the bb trajectory will be unstable

1) Turn the hop up unit off. Disconnect the battery, and remove the magazine
2) Use the angled end of the cleaning rod to push the BB backwards and out through the hop up unit.
3) Make sure to have the angled end facing down and silicone oil will help loosen the BB.

NOTE: If you continue to fire the gun with a jam you will cause more damage.
Hop Up Unit Adjustment

The Hop Up Unit adds a back spin to the BB to allow a longer flight path. Before use please do so in a safe location and make sure nobody is behind the target. When using different weight BBs you will have to make adjustments. When not in use please turn the Hop Up Unit off.

**Step 1.** To access the Hop Up Unit you will have to remove the Hand Guard pin and the Hand Guard.

**Step 2.** To adjust the hop up unit you will have slide the bar back or forth. Adding UP will add more hop up effect and turning OFF will turn the hop up unit off. Once you find the best setting you can install the hand guard.

Hop Up Unit Cleaning

Cut the cloth or paper towel in the size as shown above. Fold the material to fit through the loop. Adjust the length of the material to smoothly enter the barrel. Otherwise too much material will get jammed in the inner barrel and can cause the hop up bucking to get out of place.

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Stock Adjustment

SOB1

SOB2

SOB2 Folding Stock

SOB2

Adjustment Lever

Folding:
To fold the stock you will have to unlock and pivot. Hold onto the metal tube and use your thumb to press on the back of the gun and lift up for leverage then fold the stock to the right.

Operational Tips:
To adjust the stock you will have to press the lever up and slide the stock forward or backwards. To remove the stock you will have to pull down and away from the metal tube and slide back.

Operational Tips:
You can remove the folding part of the stock and have a rear sling mount. Remove two philips screws to do so.
## Trouble Shooting

<table>
<thead>
<tr>
<th>Issue</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gun is making a quiet clicking noise when trigger is pulled.</td>
<td>Use a fully charged battery or 12v to unlock the gears.</td>
</tr>
<tr>
<td>The trigger is stuck and will not pull back in SEMI mode.</td>
<td>Switch the selector to AUTO mode, fire 2 - 3 times, and switch to SEMI.</td>
</tr>
<tr>
<td>No power or noise coming from the gun.</td>
<td>Fuse may be blown. Replace with a 20 amp or 25 amp fuse found at most auto parts stores. Bypass by sticking the connectors together.</td>
</tr>
<tr>
<td>Grindy / scratchy noise when shooting.</td>
<td>Motor height is too high or low. Use a 1.5mm allen key or flat head screw driver to tighten or loosen until the sound goes away.</td>
</tr>
<tr>
<td>BBs jamming or not shooting</td>
<td>Barrel is jammed. Please check with Hop Up page to unjam.</td>
</tr>
<tr>
<td>Now working after trouble shoot.</td>
<td>Please contact <a href="mailto:info@echo1usa.com">info@echo1usa.com</a> on our home page for more help.</td>
</tr>
</tbody>
</table>