

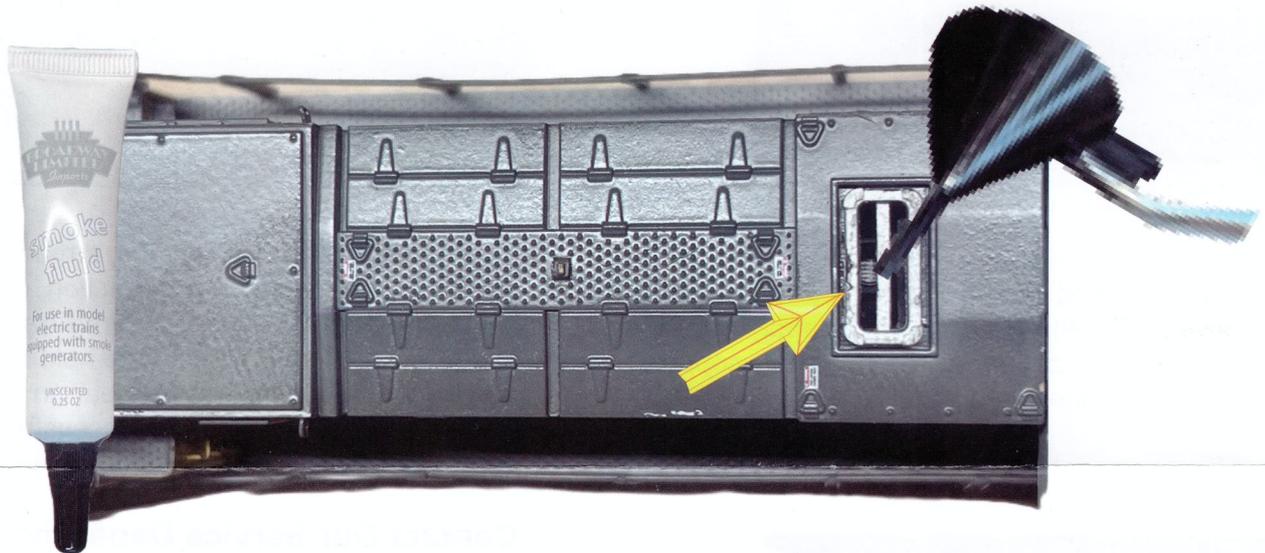
# ES44AC, HO Smoke Unit Operation



**\*\*NOTE: NEVER OPERATE THE SMOKE UNIT WITHOUT SMOKE FLUID\*\***

**SMOKE UNIT ON/OFF SWITCH LOCATION:** The ON/OFF slide switch is located under the fan cover at the rear. If you do not want smoke, always keep the smoke unit OFF.

**ADDING SMOKE FLUID:** Your new model comes pre-filled with smoke fluid, and will emit smoke right out-of-the-box. You will need to add smoke fluid once the smoke becomes thinner than you'd like. To add smoke fluid, find the provided plastic funnel in the box and put the tip of the funnel above the exhaust grate. Do not insert the funnel too deep into the hole, as you can melt the funnel. Slowly add 4-5 drops of smoke fluid, and then blow air gently into the exhaust grate. This will eliminate bubbles that could potentially form in the smoke fluid reservoir. Note: if your model stops producing smoke, a bubble is the most likely cause, and you can alleviate this by blowing briefly and sharply into the exhaust grate. After you have added 4-5 drops you are ready to operate. Never overfill the smoke fluid. Extra smoke fluid is available from Broadway Limited Imports (BLI Part Number #1002). Excess fluid may build up in this area, check and wipe dry with a cloth occasionally.



**Smoke Unit CV SETTINGS:** Four CV's affect appearance of the smoke:

CV	Function	Default Setting	Range
234	Smoke Unit Fan Speed Minimum	35	0-255
235	Smoke Unit Fan Speed Maximum	80	0-255
236	Smoke Unit Heat Minimum	60	0-100
237	Smoke Unit Heat Maximum	81	0-100

**\*\*\* CAUTION: setting CV237 higher than 81 may result in damage to the body of your model \*\*\***

# Disassembly and Maintenance Instructions for Your New HO Scale ES44AC Model.

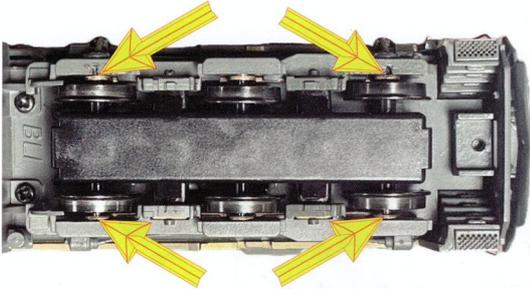


## Removing the Body Shell:

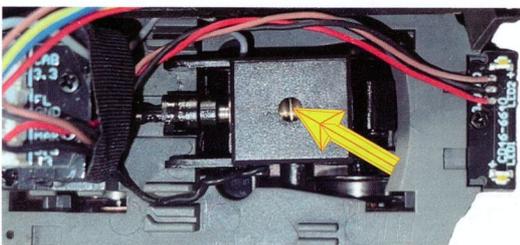


Begin by removing both couplers. Next, locate four screws - two under each of the trucks. Then, wedge the shell away from the chassis by pulling out and up on the shell edge. If done correctly, the shell will gently release from the frame.

## Maintenance and Lubrication:



To maintain good electrical pickup, or to eliminate squealing, you should occasionally apply Conducta Lube #192 and Cleaner ACT-3753 to the copper plate between the wheels and truck sideframes.



We also recommend applying NG Jel Gear Lubricant ACT-1111 to the inside of the gear box every several years. Remove the shell and add a drop into the hole in the gear caps, lubricating the gears. Never apply thick oils to wheel surfaces or gears.

## Using the Manual Reset Button:



If your model is not responding, a manual reset can be useful. To perform this action, place your engine on a section of **unpowered** track. Press and hold the reset button. While holding the button, turn track power ON. You will hear an acknowledgment that the reset was successful. Release the reset button.

## Contact Our Service Department

Please visit [bliservice.com](http://bliservice.com) to register your engine, make a parts request, get technical support for your model, or check on the status of a model that is currently with us.

For technical support, please visit [bliservice.com/techsupport-options/](http://bliservice.com/techsupport-options/)  
For parts orders or inquiries, please visit [bliservice.com/request-part-options/](http://bliservice.com/request-part-options/)

For telephone tech support:  
Hours: 1pm-4pm EST Tue.-Fri.  
Tel: 386-673-8900 (Option 2)  
FAX: 386-673-8080