TechTips From the Anti-idling Experts

Anti-idling Experts

Saving money can be as easy as pushing a button…

By installing an Espar Heater on your truck you will reduce your idling time and save money. Fight the high cost of fuel... install an Espar.. and feel the difference!
This Savings sheet is in Imperial gallons and U.S. dollars.
Conversions:- U.S.$ - Cdn$=1.6, 1gallon=3.8L

1. Annual Idling Fuel Cost*	Example	Your Actual	
A. Number of trucks	1		truck(s)
B. Number of weeks you idle	30 weeks		weeks
C. Number of days per week you idle	5 days		days
D. Number of hours per day you idle	8 hours		hours
E. **Total idling hours per year (BxCxD=E)**	**1200**		hours/year
F. Fuel consumption at idle (US gal/h)	0.8 gal/h		gal/h
G. Fuel cost per US gallon	2.60		$/gal
H. **Idling fuel cost per year (ExFxG=H)**	**$2,496.00**		$/year
2. Espar Equipment Cost			
I. AIRTRONIC D2 heater cost (use your quoted price**)	$1,450.00		dollars
J. **AIRTRONIC D2 operating cost per year** (0.06 gal/hr x ExG = P)	**$187.20**		$/year

Please note that the Espar equipment cost is subtracted from the idling cost in the savings calculation. The savings below factors in your equipment cost.

3. Your savings:			
K. 2 years = **A x** [2x(H-J)-I]	**$3,167.60**		dollars
L. 3 years = **A x** [3x(H-J)-I]	**$5,476.40**		dollars
M. 4 years = **A x** [4x(H-J)-I]	**$7,785.20**		dollars
N. 5 years = **A x** [5x(H-J)-I]	**$10,094.00**		dollars

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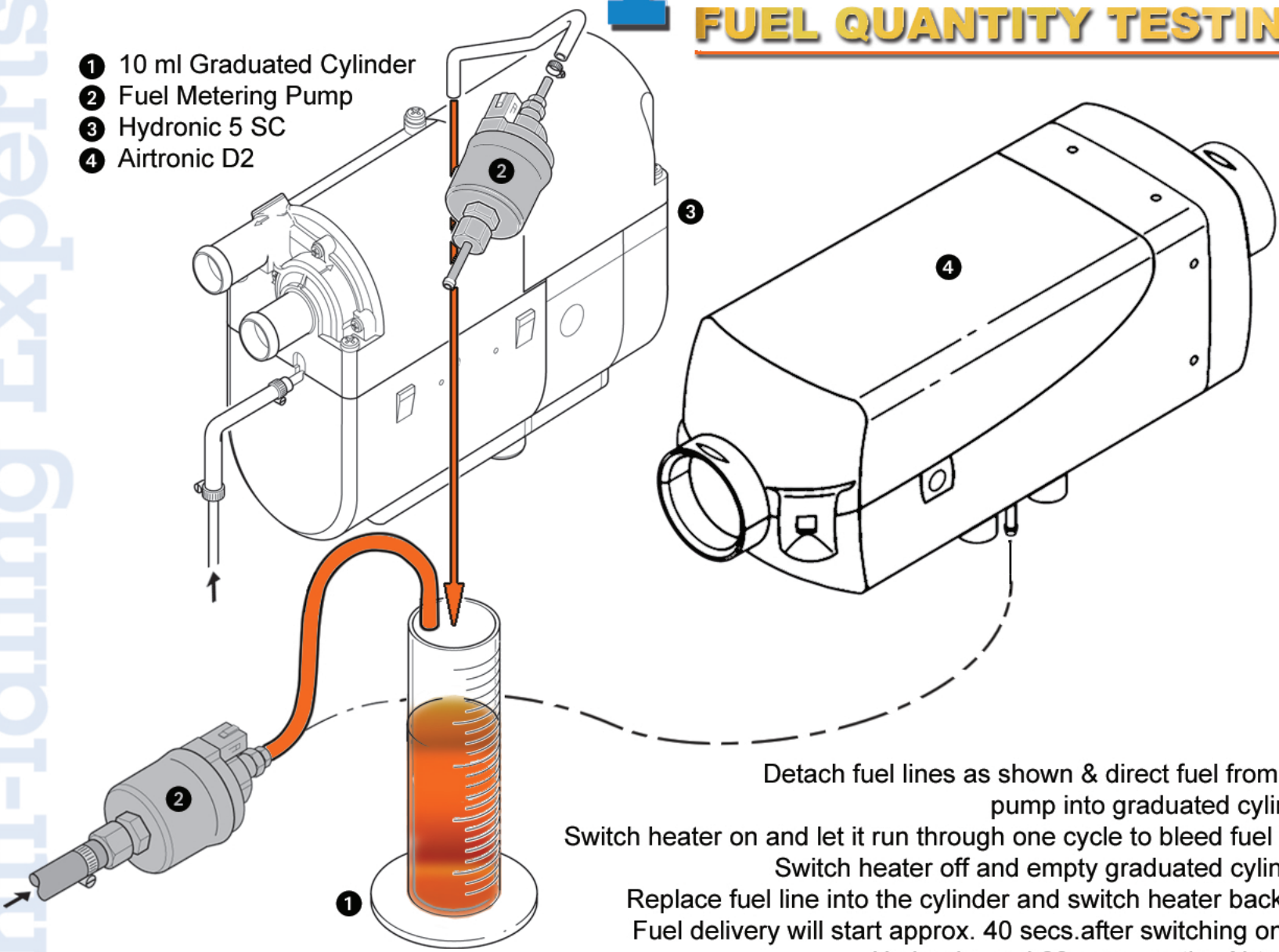
FUEL QUANTITY TESTING

1. 10 ml Graduated Cylinder
2. Fuel Metering Pump
3. Hydronic 5 SC
4. Airtronic D2



Detach fuel lines as shown & direct fuel from fuel pump into graduated cylinder
Switch heater on and let it run through one cycle to bleed fuel line.
Switch heater off and empty graduated cylinder.
Replace fuel line into the cylinder and switch heater back on.
Fuel delivery will start approx. 40 secs.after switching on the Hydronic, and 60 secs. on the Airtronic.
The Hydronic & Airtronic pump will stop automatically after 90 secs. of fuel delivery.
Switch heater off & read the quantity of fuel in the graduated cylinder.
If they are not within specs below FMP must be replaced or fuel restriction eliminated.

AIRTRONIC D2	HYDRONIC D5 SC
3.5 ml and 4.3 ml	8.5ml and 9.5 ml

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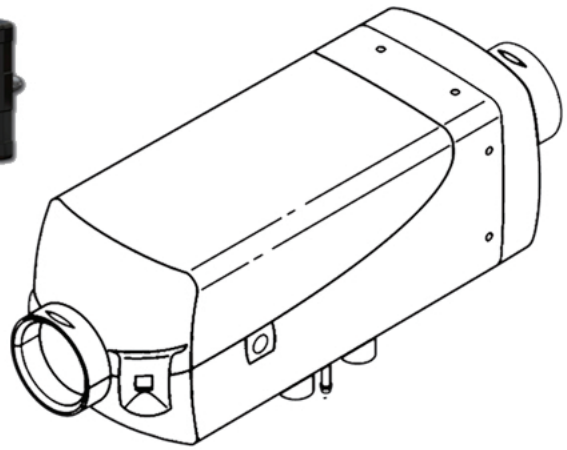
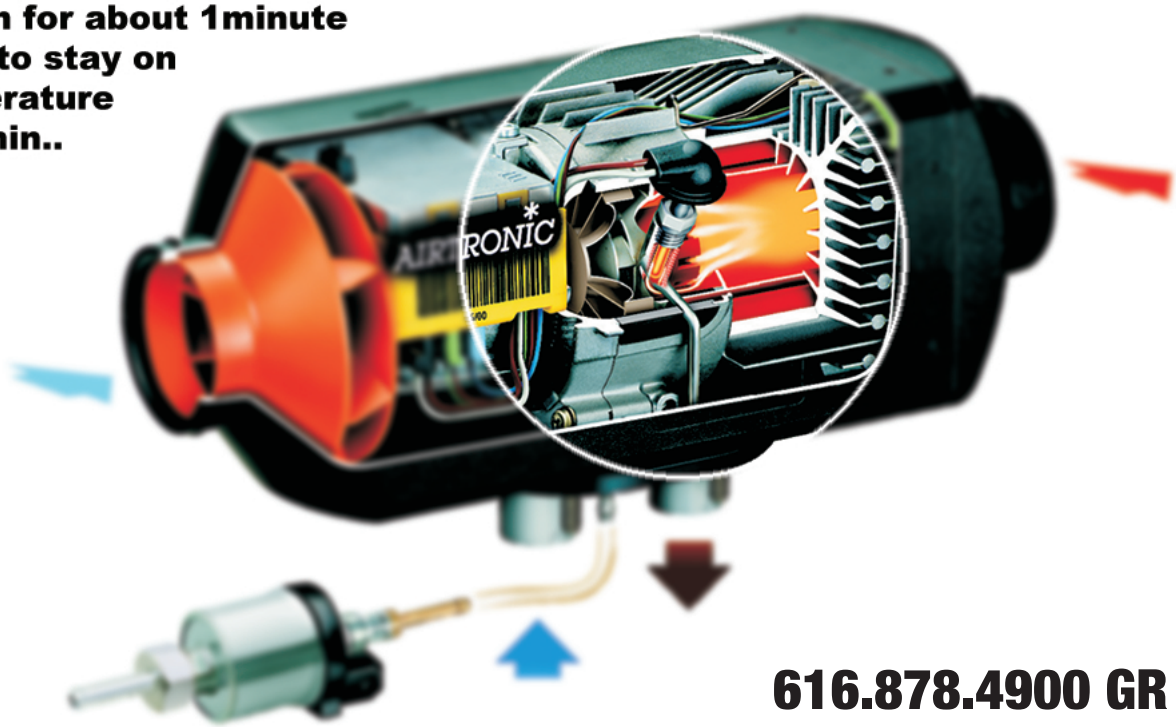
Glow Pin Afterburn on Espar Heaters!



- All Espar Heater Systems have a glow pin afterburn, this stage of operation occurs to burn excess fuel and prepare the glow pin for the next start cycle. Essentially, it is cleaning the glow pin.

Eg. Airtronic D2 Bunk Heater

1. **Heater is turned off**
2. **Fuel pump turns off. Blower stays on.**
3. **Glow pin comes on for about 1minute**
4. **Blower continues to stay on until heater temperature drops. Approx: 5 min..**



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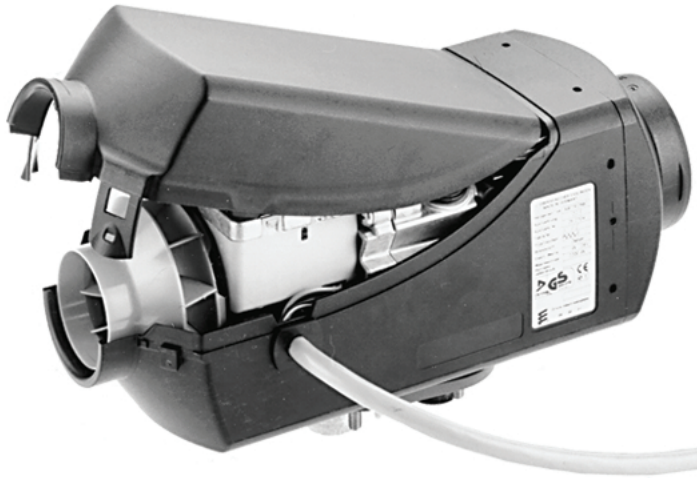
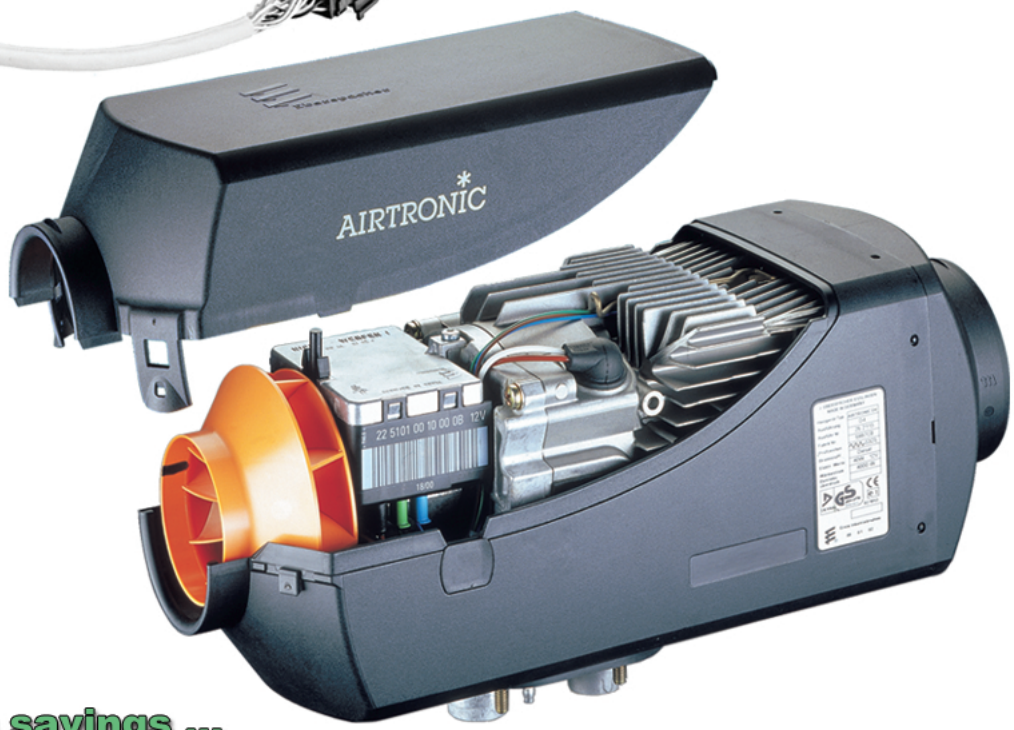
Serviceability = Time & Money Saved

All heaters experience conditions that can affect combustion, resulting in excessive carboning & corrective maintenance.



Popping the cover off an Espar Airtronic allows quick access to the heaters interior, where, 60% of the components are serviceable without removing the heater from the vehicle.



- Basic PM's can be performed in minutes
- All internal components can be seviced individually
- Tech time is reduced
- Idle reductions savings are increased.

Servicability means savings ...

.. and it's only available with the smart design of an Espar Heater

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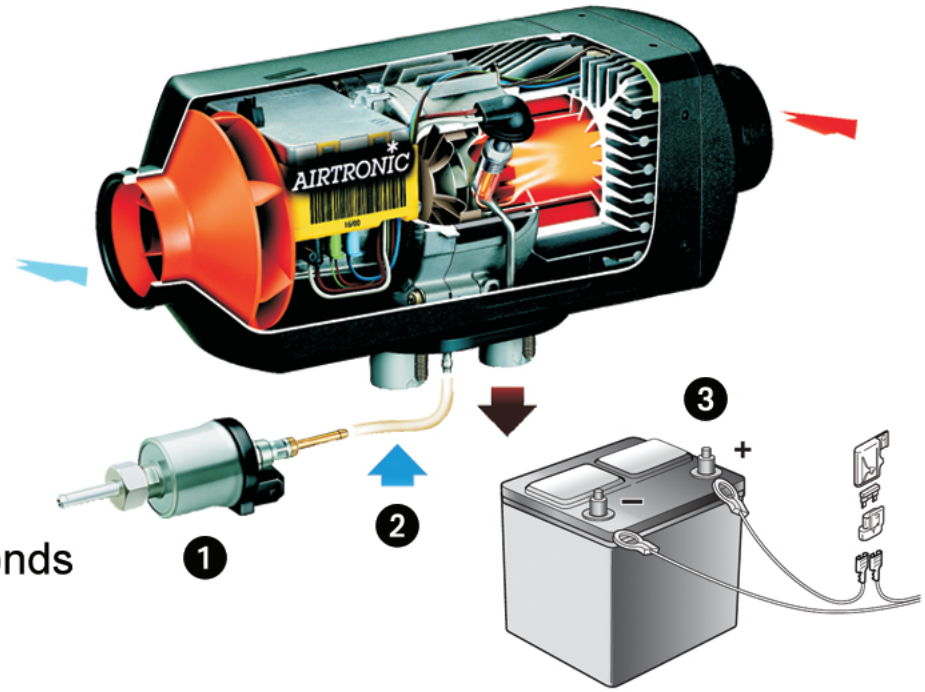
The 60 Second Heater Inspection

All heaters require three things to operate properly:

1. Source of fuel
2. Ample combustion air
3. Supply of 12 volt power



Whether it's road debris or a shifting of under-bunk storage, a heater's installation can be affected over time. Take 60 seconds to ensure your heaters reliability.

OUTSIDE - Visually Inspect

- intake & exhaust piping for excessive bends, restrictions or damage
- the fuel pump should be mounted at a 35 degree angle, harness end up
- check fuel lines and wiring harness condition and routing

INSIDE - Visually Inspect:

- air vents should be clear of blockage
- there should be no excessive bends or restrictions in the air ducting
- never stack gear or materials on or around your heater

Reliability means savings:
Get maximum reliability with the smart design of an Espar Heater

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