



## CHARGE AIR COOLER TESTER-KIT™



The Dura-Lite™ Tester-Kit™ is designed and manufactured to be used to pressure test Charge Air Coolers in a safe and efficient manner. The Kit comes complete with everything required to pressure test most Charge Air Coolers. With the Dura-Lite™ Tester-Kit™, testing the Charge Air Cooler will become as automatic as checking the oil and will give you confidence in knowing that an engine is performing at the performance levels required.

### LEAK DOWN RATE SPECIFICATIONS:

Caterpillar	5 psig in 15 seconds @ 30 psig
Cummins (ISB, ISC, N14)	7 psig in 15 seconds @ 30 psig
Cummins (ISX, M11)	5 psig in 15 seconds @ 30 psig
Detroit Diesel	5 psig in 30 seconds @ 30 psig
International	5 psig in 15 seconds @ 30 psig
Mack	5 psig in 15 seconds @ 30 psig
Mercedes	5 psig in 15 seconds @ 25 psig
Volvo	5 psig in 15 seconds @ 30 psig

\* psig (pound-force per square inch gauge)

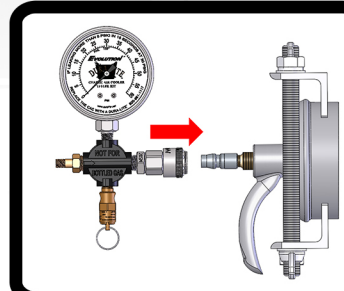
### SYMPTOMS OF NON-PERFORMING CHARGE AIR COOLERS:

- **Loss Of Engine Power.**
- **Increased Fuel Consumption.**
- Elevated Soot Levels in the Oil.
- Premature Piston, Ring, and Valve Failure.
- Turbocharger Failures.
- Elevated Coolant Temperatures.
- Exhaust Manifold Failure.



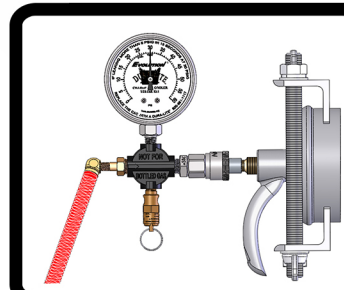
#### STEP 1

Remove turbo hoses and clamps.



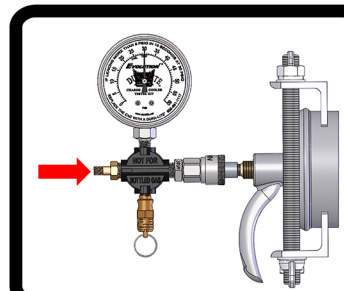
#### STEP 2

Install Tester-Kit™ plugs and clamps. Mount gauge and double check system.



#### STEP 3

Apply 30 psig of air. Remove air supply and check gauge. See chart (left) for Leak Down Rate Specifications. If leakage occurs beyond these specifications, it is strongly recommended that you replace existing cooler with the Dura-Lite™ Evolution® Charge Air



#### STEP 4

Release air. Test is now complete.

\*This procedure is for reference purposes only and the actual testing procedure must always be in accordance with the instructions supplied with the Tester-Kit™.

### DURA-LITE HEAT TRANSFER PRODUCTS LTD.™ WORLD HEADQUARTERS

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PART#: BROCHURE-TK17 REV 1

# Leaking Charge Air Cooler Cost:

An engine with a leaking *Charge Air Cooler* will waste fuel. At a fuel cost of \$2.50 per gallon, Dura-Lite's calculation of the amount of fuel an engine is wasting as a result of a Leaking *Charge Air Cooler* is approximately what is shown in the tables below.

As fuel prices rise above \$2.50 per gallon, the amount of money Dura-Lite™ could save you also increases.

## Leaking Charge Air Cooler Cost:

<b>Fuel Cost Calculator:</b>	<b>Leaking Charge Air Cooler:</b>
Fuel Cost	\$2.50 Per US Gallon
Fuel Economy	5.5 MPG (Estimate)
Average Trip Per Day	600 Miles
Consumption Per Day	109.1 US Gallons
<b>Cost Per Day</b>	<b>\$272.73</b>

## Dura-Lite™ Leak Free Charge Air Cooler Cost:

<b>Fuel Cost Calculator:</b>	<b>Dura-Lite™ Leak Free Charge Air Cooler:</b>
Fuel Cost	\$2.50 Per US Gallon
Fuel Economy	5.9 MPG (Estimate)
Average Trip Per Day	600 Miles
Consumption Per Day	101.7 US Gallons
<b>Cost Per Day*</b>	<b>\$254.24</b>

## Dura-Lite™ Could Save You:

### **Per Vehicle:**

Per Day*	\$18.00
Per Week*	\$90.00
Every 4 Weeks*	\$360.00
Per Year*	\$4,680.00

### **Fleets:**

#### **Number Of Vehicles:**

	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>500</b>	<b>1,000</b>
Per Day*	\$450.00	\$900.00	\$1,350.00	\$1,800.00	\$9,000.00	\$18,000.00
Per Week*	\$2,250.00	\$4,500.00	\$6,750.00	\$9,000.00	\$45,000.00	\$90,000.00
Every 4 Weeks*	\$9,000.00	\$18,000.00	\$27,000.00	\$36,000.00	\$180,000.00	\$360,000.00
Per Year*	\$117,000.00	\$234,000.00	\$351,000.00	\$468,000.00	\$2,340,000.00	\$4,680,000.00

\* An engine with a leaking *Charge Air Cooler* will waste fuel. Dura-Lite's calculation of the amount of fuel your engine is wasting is approximately what is shown above. The calculations are only approximate amounts based on a formula, using information from customer experiences with our products. Those experiences may be different from yours. The amount you save may be more or less than what is shown, due to other factors not reflected in the calculations. Dura-Lite™ does not warrant the accuracy of the calculations.

**www.duralite.net**



**800-661-1117**