

RENAULT THERMOSTATIC AIR CLEANER

Le Car

NOTE: Fuego and 18i models are equipped with fuel injection and do not use a thermostatic air cleaner.

DESCRIPTION

This device prevents fuel system icing and reduces emissions by controlling the temperature of air entering the combustion chamber. The system works through a temperature sensitive thermostatic element which is connected to a flap which directs either manifold-heated air or cooler outside air into the air cleaner housing.

OPERATION

When the intake air temperature is below 66°F (19°C), the thermostatic element contracts and closes off outside air. Only air from the exhaust manifold shroud will enter the air cleaner housing. Above 95° F (35°C), the element will have expanded so that the warm air path is closed and only outside air is taken in.

TESTING

1) Remove the air filter housing and filter element. Dip the filter housing into cold water as deep as the thermostatic element.

2) After being immersed for 5 minutes in water below 66°F (19°C), the air flap should have closed off the cold air passage.

3) Heat water to above 95°F (35°C). After a short time, the thermostatic element should expand and the flap should close off the hot air intake passage.

Fig. 1: Le Car Thermostatic Air Cleaner

