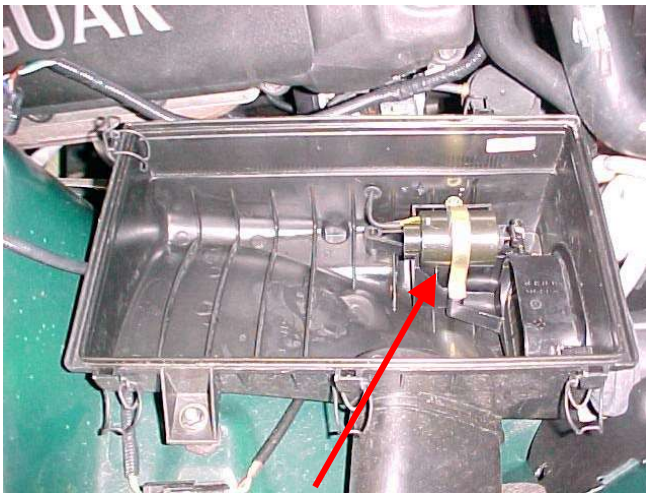


ENGINE MANAGEMENT (Cont.)

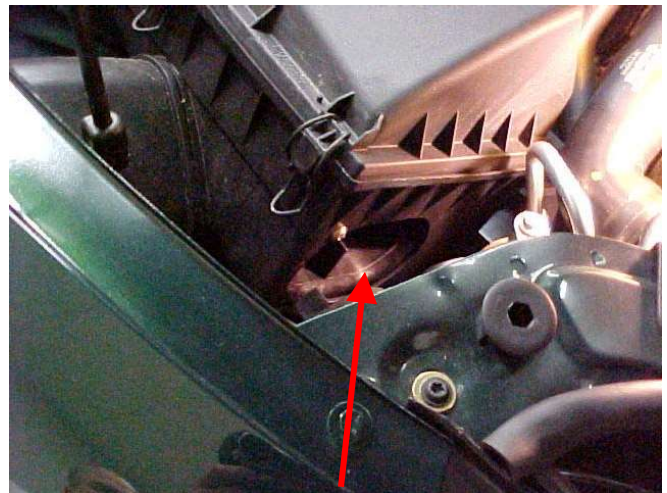
Auxiliary Air Control Flap

The auxiliary air control flap is a component mounted in the air cleaner housing and is only used on supercharged (S/C) applications. The operation is the same as on the 2003 MY S-TYPE "R" and its primary function is to open a flap (controlled by a solenoid) in the air cleaner housing that allows more air to be inducted and thus more power at high engine speeds.

The solenoid receives a constant 12 volts via fuse F14 (10 A), and is grounded as needed by the ECM. The ECM provides a PWM signal to control the operation of the solenoid.



AIR BOX SOLENOID



HIGH SPEED AIR INLET

EGR

The 4.2-liter engine is fitted with an EGR valve. The valve contains a 4-pole stepper motor driven by the ECM through a maximum of 60 steps.