

CHRYSLER CORP. IMPORTS THERMOSTATIC AIR CLEANER

Arrow
Arrow Pickup
Challenger
Champ
Colt
D50 Pickup
Sapporo

higher predetermined temperature, control valve will be down, in cold air only position. At temperatures between these, control valve will be positioned to blend both hot and cold air to moderate temperatures reaching carburetor. Through this method, air temperature being used by carburetor is kept nearly constant.

DESCRIPTION

All models are equipped with a Thermostatic Air Cleaner. Air cleaner is equipped with an air control valve (inside snorkle) which allows either heated exhaust shroud air or cooler ambient air into carburetor, depending on valve position. Valve position is controlled by a vacuum motor which responds to a bimetal temperature sensor (located inside air cleaner housing), on all models except front-wheel drive Colt and Champ. On front-wheel drive Colt and Champ, a bimetal sensor, located at hinge of control valve, sets valve position.

TESTING

- 1) After engine has cooled down, start engine. Check position of air control valve and watch it as engine warms up. It should function as described under "Operation". If not, replace air cleaner snorkel and/or casing.
- 2) If equipped with vacuum motor, apply 15 in. Hg to motor (hose disconnected) while engine is cold. Air valve should be up (heat on). If not, or if valve goes down immediately, a vacuum leak or defective motor is indicated. Replace assembly.

Air Control Valve Temperature Settings [ⓐ]		
Application	Hot Air Only	Cold Air Only
Arrow, Colt, Challenger, Sapporo		
with 1600 cc	41 (5)	108 (42)
with 2600 cc	84 (29)	113 (45)
Champ, Colt		
Front Wheel Drive	41 (5)	108 (42)
Arrow Pickup, D50	84 (29)	113 (45)

[ⓐ] — Degrees Fahrenheit given first; degrees Celsius given in parentheses.

OPERATION

When incoming air temperature, as sensed by bimetal, is below predetermined temperature, air control valve will be up, in hot air only position. When temperature has reached a

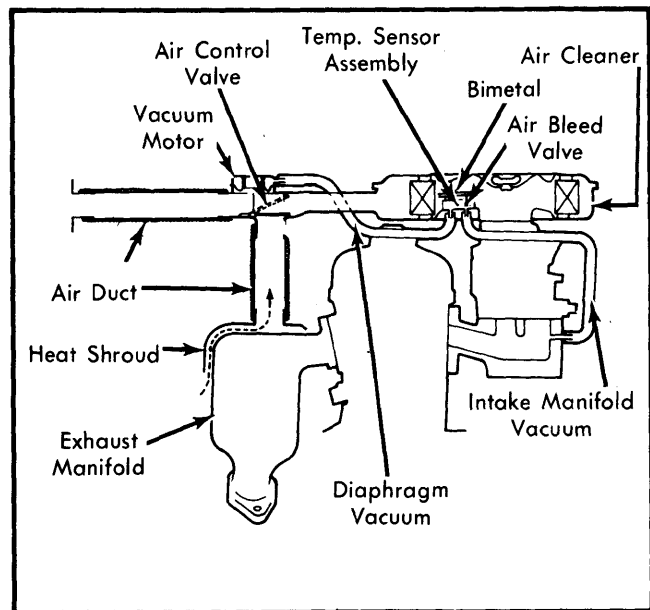


Fig. 1 Sectional Drawing of Thermostatic Air Cleaner System (Vacuum Motor Type Shown)