

## RX-7 (12A)

SUBJECT Altitude Compensator Valve.DESCRIPTION

An altitude compensator valve is attached to the 1981-1985 RX-7 carburetor to supply additional air into the carburetor at high altitudes (between 1640-4920 ft) in order to lean the mixture for better driveability. If the altitude compensator remains open at low altitudes, the following driveability problems may occur:

- Lack of acceleration, hesitation on acceleration
- No power under load
- Engine stumble, surge or bucking below approximately 3000 rpm
- Rough idle

If the above driveability problems are encountered in RX-7 (12A), always check the altitude compensator as shown below before repairing the carburetor.

PARTS INFORMATION

PART NUMBER	DESCRIPTION	APPLIED MODEL
N249 20 770	Altitude Compensator Valve	1981-1985 RX-7

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CHECKING PROCEDURE

1. Remove the altitude compensator valve.
2. Blow through the valve from port A and B. Check that:
  - Above 4920 feet - air into port A exits from port D and air into port B exits from port C.
  - Below 1640 feet - air does not pass.
 If not, replace the altitude compensator valve.

## NOTE:

The operating specification of the altitude compensator valve will vary between 1640-4920 feet depending on atmospheric pressure.

