

ABS WITH EBD SYSTEM (BOSCH MADE) (From July, 2003)

05FAP-02

DESCRIPTION

1. SYSTEM DESCRIPTION

(a) ABS

(Anti-lock Brake System)

The ABS helps prevent the wheels from locking when the brake is applied firmly or when braking on a slippery surface.

(b) EBD

(Electronic Brake force Distribution)

The EBD control utilizes ABS, realizing proper brake force distribution between front and rear wheels in accordance with driving conditions.

In addition, when braking while cornering, it also controls the brake forces of the right and left wheels, helping to maintain vehicle behavior.

2. ABS with EBD OPERATION

- (a) Based on the signals received from the 4 wheel speed sensors, the skid control ECU calculates each wheel speed and deceleration, and checks wheel slipping condition. And according to the slipping condition, the ECU controls the pressure holding valve and pressure reduction valve in order to adjust the fluid pressure of each wheel cylinder.

3. FAIL SAFE FUNCTION

- (a) When a failure occurs in the ABS system, the ABS warning light comes on and operation is prohibited. In addition to this, when the failure which disables the EBD operation occurs, the brake warning light comes on as well, and operation is prohibited.