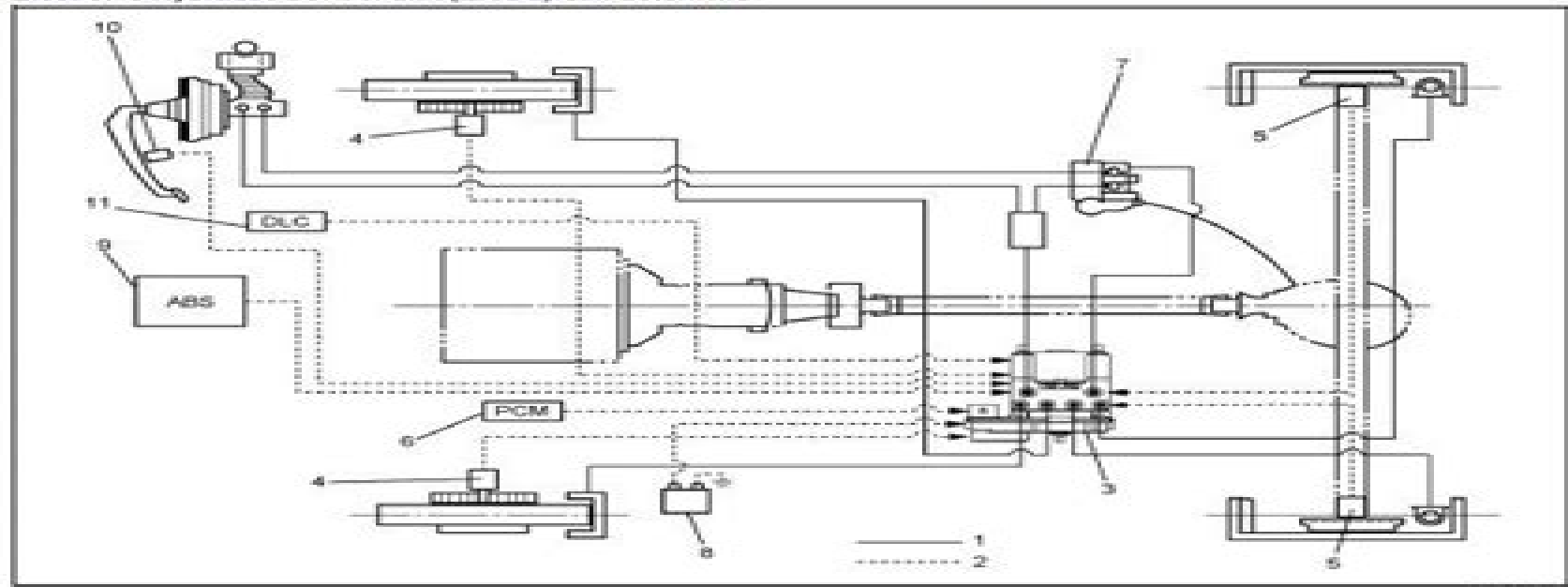


General Description

The Anti-Lock Brake System (ABS) works on all four wheels. A combination of wheel speed sensor and Electronic Hydraulic Control Unit (EHCU) can determine

when a wheel is about to stop turning and adjust brake pressure to maintain best braking. This system helps the driver maintain greater control of the vehicle under heavy braking conditions.



Legend

- (1) Hydraulic Line
- (2) Electronic Line
- (3) Electronic Hydraulic Control Unit (EHCU)
- (4) Front Wheel Speed Sensor
- (5) Rear Wheel Speed Sensor

- (6) Powertrain Control Unit Module (PCM)
- (7) Load Sensing Proportioning Valve (LSPV)
- (8) Battery
- (9) ABS Warning Light
- (10) Brake Switch
- (11) Data Link Connector

System Components

The Anti-lock Brake System consists of a Hydraulic Unit, Electronic Hydraulic Control Unit (EHCU), four Wheel Speed Sensors and Warning Light.

Electronic Hydraulic Control Unit (EHCU)

The EHCU consists of ABS control circuits, fault detector, and a fail-safe. It drives the hydraulic unit according to the signal from each sensor, cancelling ABS to return to normal braking when a malfunction has occurred in the ABS.

The EHCU is self-diagnosing function which can indicate faulty circuits during diagnosis.

The EHCU is located behind the glove box.

Hydraulic Unit (HU)

The hydraulic unit is mounted on the frame near the rear spring front bracket. It consists of a Motor, Plunger Pump, Solenoid Valves and Check Valve.

On the outside, the relay box containing a motor relay and a valve relay is installed.

Solenoid Valves: Reduces or holds the caliper fluid pressure for each front disc brake or both rear drum brakes according to the signal sent from the EHCU.

Reservoir: Temporarily holds the brake fluid that returns from the front and rear wheel brake so that pressure of front wheel brake can be reduced smoothly.

Plunger Pump: Feeds the brake fluid held in the reservoir to the master cylinder.

Motor: Drives the pump according to the signal from EHCU. **Check Valve:** Controls the brake fluid flow.

Isuzu Npr 4workshop Manual

Arturo Cuomo



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