

ANTI-LOCK BRAKE SYSTEM (ABS)

DESCRIPTION

The ABS is a brake system which controls the brake cylinder hydraulic pressure of all four wheels during sudden braking and braking on slippery road surfaces, preventing the wheels from locking.

This ABS provides the following benefits:

- (1) Enables steering round an obstacle with a greater degree of certainty even when panic braking.
- (2) Enables stopping in a panic brake while keeping the effect upon stability and steerability to a minimum, even on curves. . .

The function of the ABS is to help maintain directional stability and vehicle steerability on most road conditions. However, the system cannot prevent the vehicle from skidding if the cornering speed limit is exceeded.

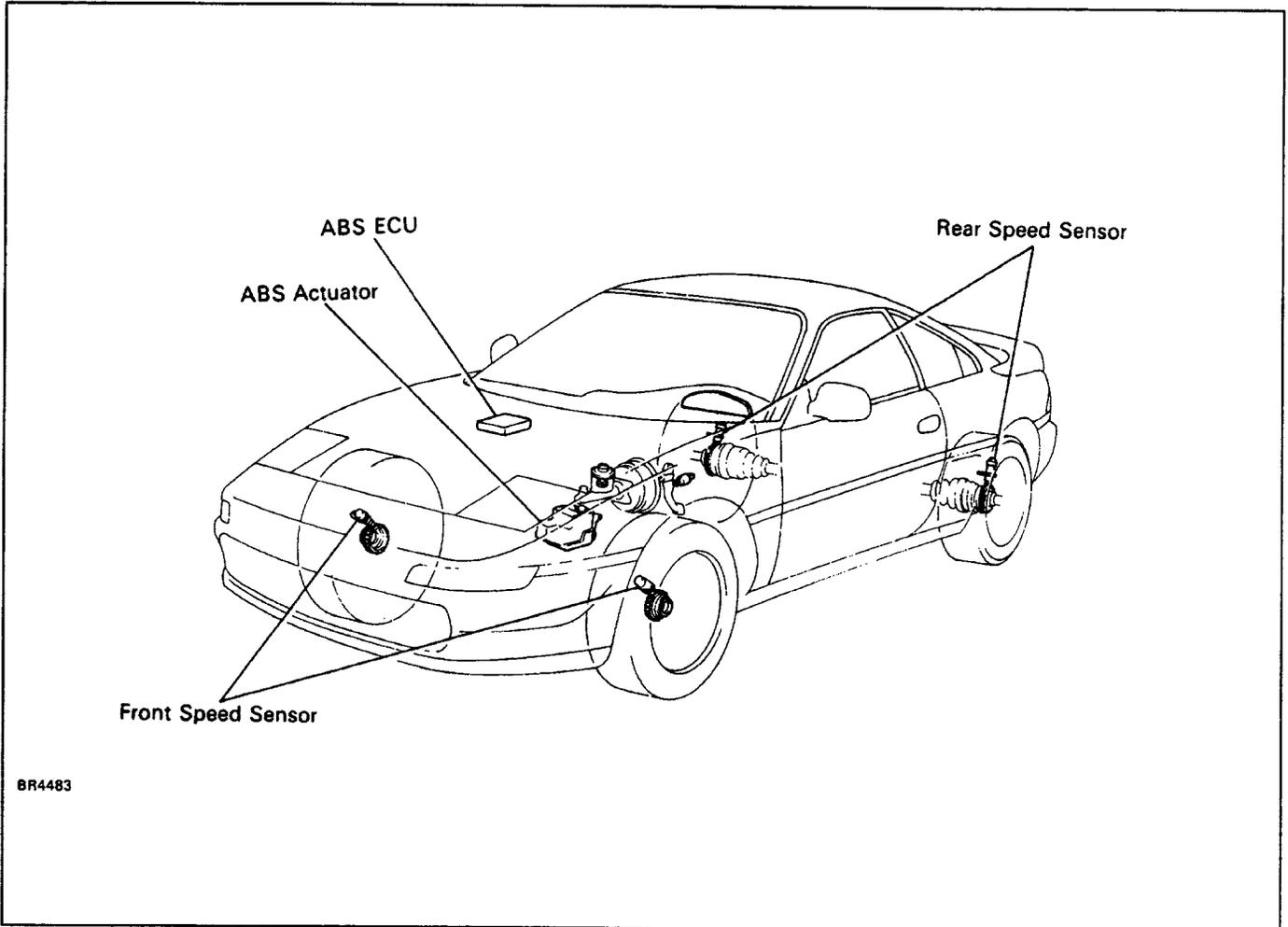
In case a malfunction occurs, a diagnosis function and fail-safe system have been adopted for the ABS to increase serviceability.

BR072-01

COMPONENTS FUNCTION

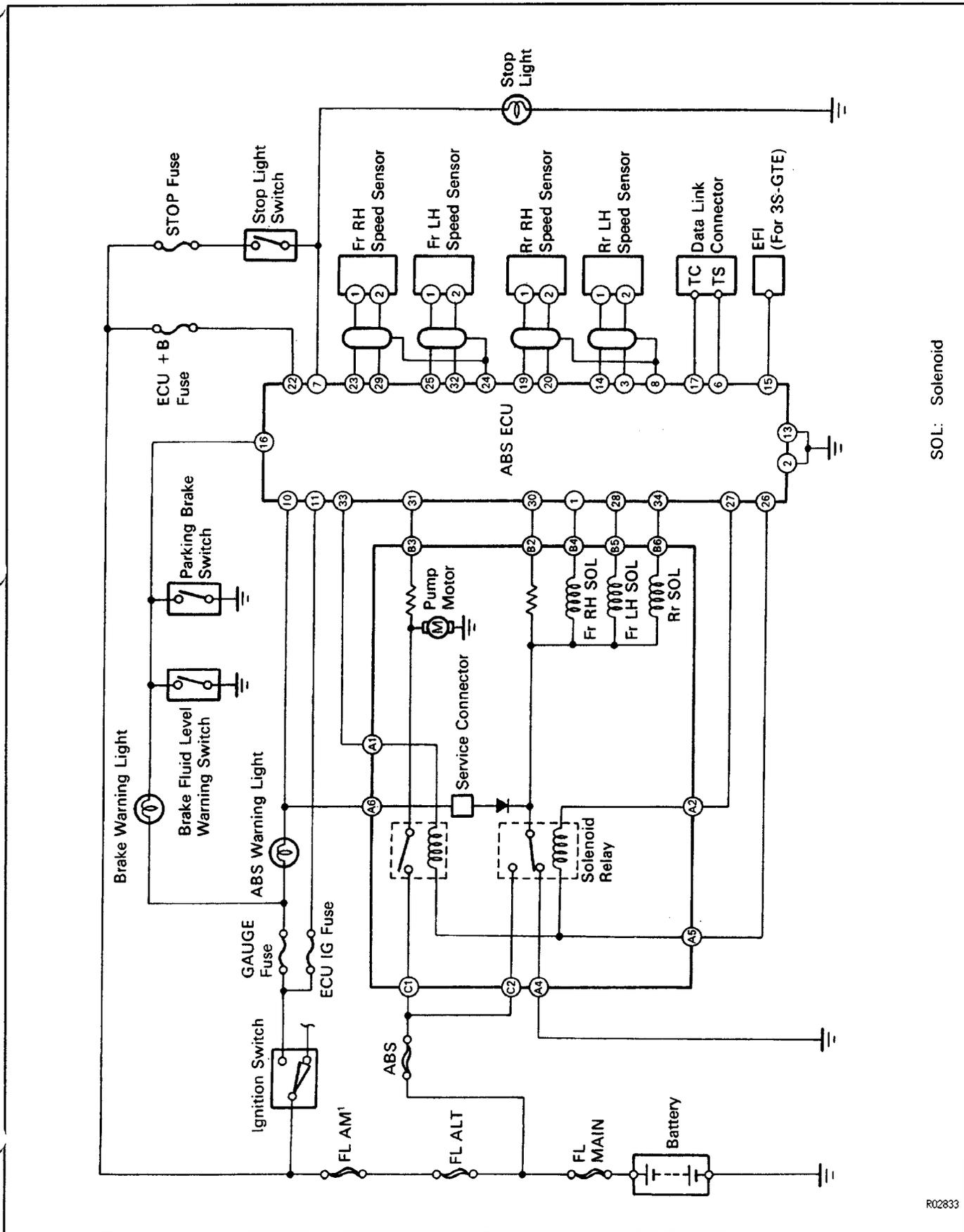
Component	Function
Front Speed Sensor	Detect the wheel speed of each of the left and right front wheels.
Rear Speed Sensor	Detect the wheel speed of each of the left and right rear wheels.
A6S Warning Lamp	Lights up to alert the driver when trouble has occurred in the Anti - Lock Brake System.
Actuator	Controls the brake fluid pressure to each disc brake cylinder through signals from the computer.
ABS ECU	From the wheel speed signals from each sensor, it calculates acceleration, deceleration and slip values and sends signals to the actuator to control brake fluid pressure.

SYSTEM PARTS LOCATION



WIRING DIAGRAM

8R074-01

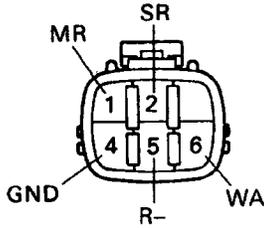


SOL: Solenoid

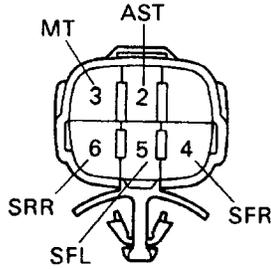
CONNECTORS

ABS Actuator

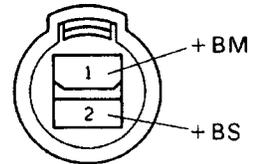
CONNECTOR A



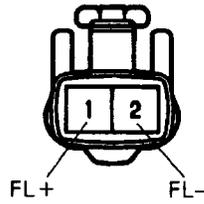
CONNECTOR B



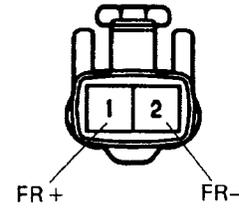
CONNECTOR C



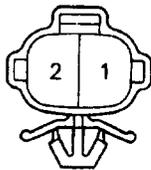
Front Speed Sensor (LH)



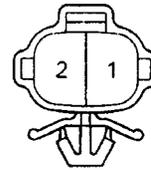
Front Speed Sensor (RH)



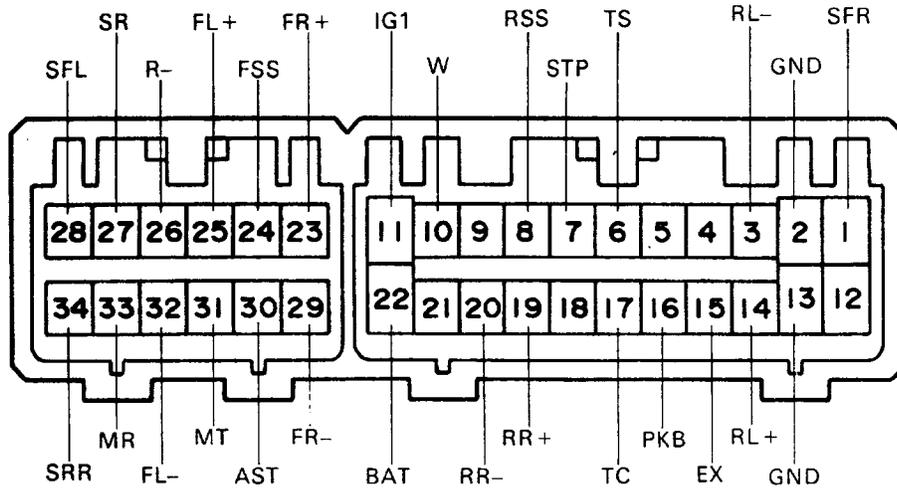
Rear Speed Sensor (LH)



Rear Speed Sensor (RH)



ABS ECU



BR4626 BR4626 ID-2-2
 le-2-1-T le-2-1-T
 R01164 R01164
 R02748