

SECTION

SCS

SUSPENSION CONTROL SYSTEM

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TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

PFP:25962

Precautions

EES000EX

PRELIMINARY CHECK

- Check power steering fluid level.
- Check power steering fluid line for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.
- Check tire pressure.
- Check wheel alignment.
- Check shock absorber for oil leakage or other damage.

Fail-Safe

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FAIL-SAFE FUNCTIONS

The active damper suspension electronically controls the shock absorber dampening force. If, for some reason, the dampening force falls under any of the conditions listed in the "Fail-safe items" table below, the fail-safe system will activate to maintain a constant level of shock absorber dampening force. If symptoms (such as unstable steering, unpleasant riding comfort, etc.) are pointed out, check and correct the malfunctioning part or area using the diagnostic procedure outlined under "Diagnostic Procedure 6 (Hard or soft feel)". Refer to [SCS-25, "TROUBLE DIAGNOSIS FOR SYMPTOMS"](#)

FAIL-SAFE ITEMS

Item	Fail-safe input conditions	Fail-safe end conditions	Fail-safe processing
Vehicle speed sensor	● Vehicle speed signal cannot be entered for more than 10 seconds when the vehicle is running with the engine revolution greater than 1,500 rpm. ● Vehicle speed signal changes from a value of greater than 30 km/h (19 MPH) to a value of less than 2 km/h (1 MPH) within 1.4 seconds.	A signal corresponding to a vehicle speed of greater than 2 km/h (1 MPH) is entered.	● Shock absorber dampening force is maintained at a preset value. ● Power steering control current is maintained at approximately 0.18A.
Steering angle sensor	A steering signal of greater than 1° does not change for more than 180 seconds when vehicle speed is greater than 60 km/h (37 MPH).	A steering signal of greater than 1° is entered.	Shock absorber dampening force is maintained at a preset value.
Steering angle (neutral) signal	● Steering neutral signal is not entered ("ON") at all while vehicle is being driven a distance of 10 km (6 miles) or more. ● Steering neutral signal is not entered ("ON") at all when steering wheel is turned at least 360° in either direction. ● Steering neutral signal is staying "ON" only while steering wheel is being turned at least 50° in either direction.	More than one ON-OFF signal is entered.	Shock absorber dampening force is maintained at a preset value.
Vertical G sensor	● Vertical G sensor signal corresponding to a voltage of greater than 4.5 volts does not change for 2 seconds. ● Vertical G sensor signal corresponding to a voltage of less than 0.5 volts does not change for 2 seconds.	Vertical G sensor signal corresponding to a voltage of greater than 1volt or less than 4 volts.	When any of the vertical G sensors are determined to be faulty, shock absorber dampening force is maintained at a preset value.
Stop lamp switch	Fail-safe system does not process data. DTC is displayed when self-diagnosis is performed.		

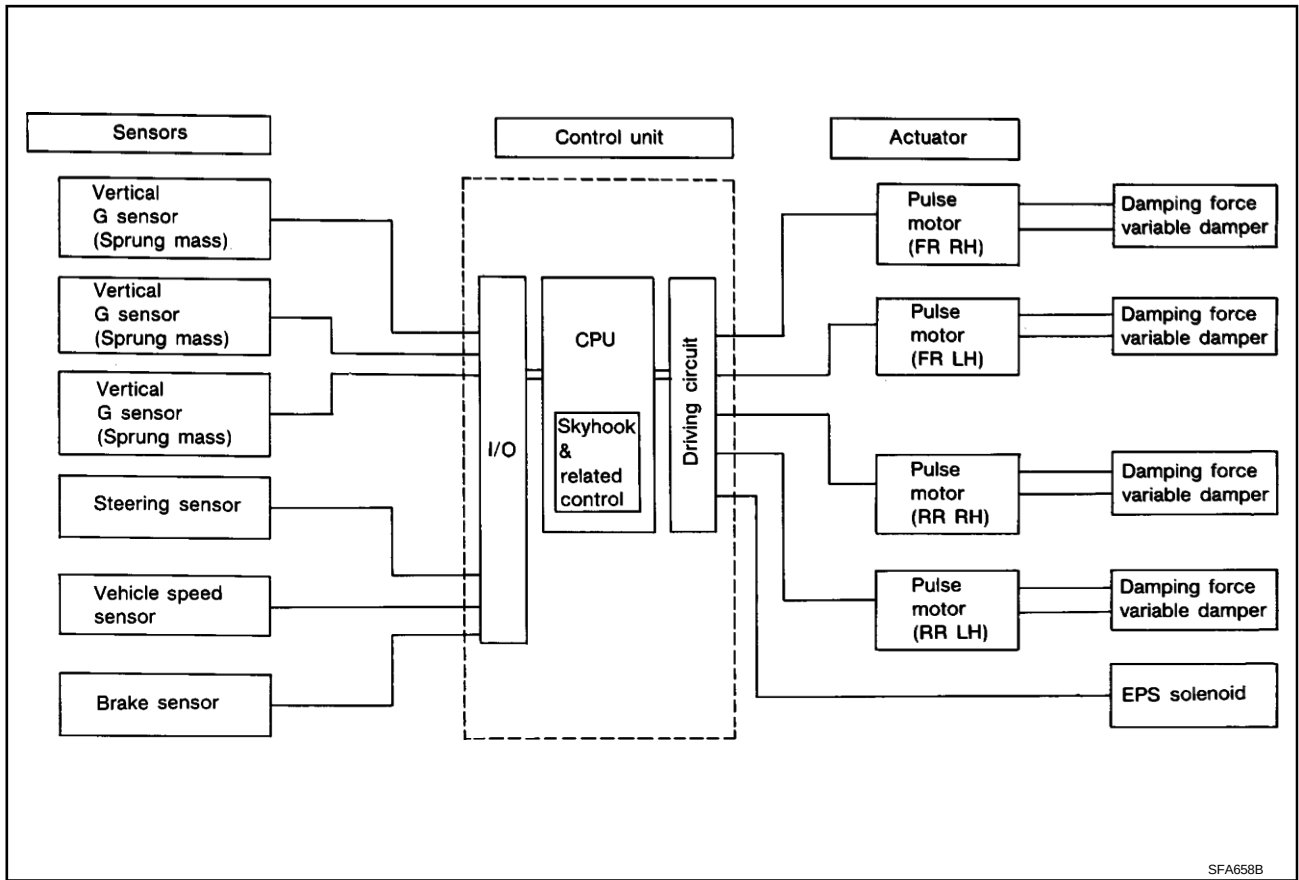
NOTE:

Even after the fail-safe function is canceled, the fail-safe processed history is retained in the control unit memory.

TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

Active Damper Suspension Configuration SYSTEM COMPONENTS

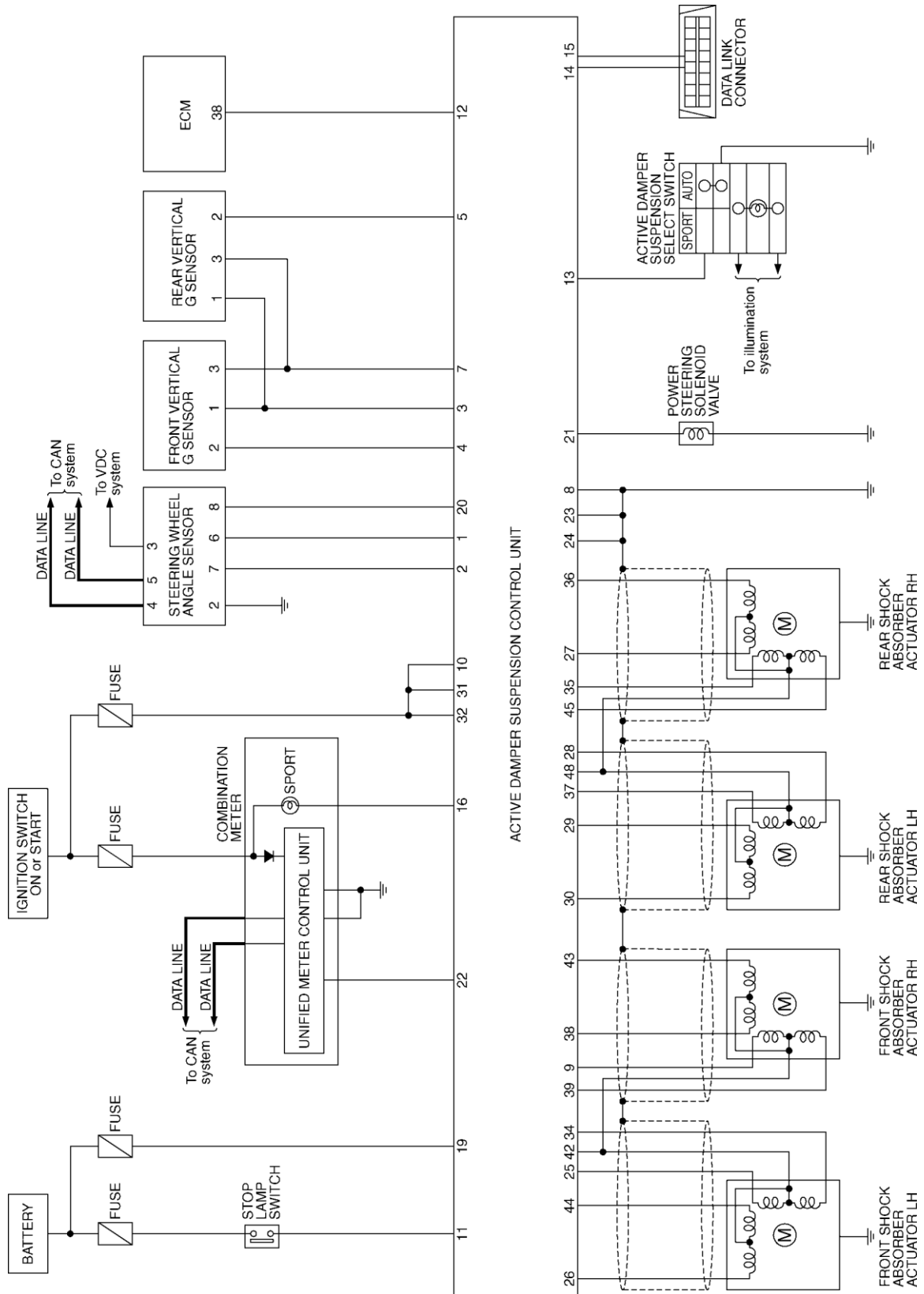
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TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

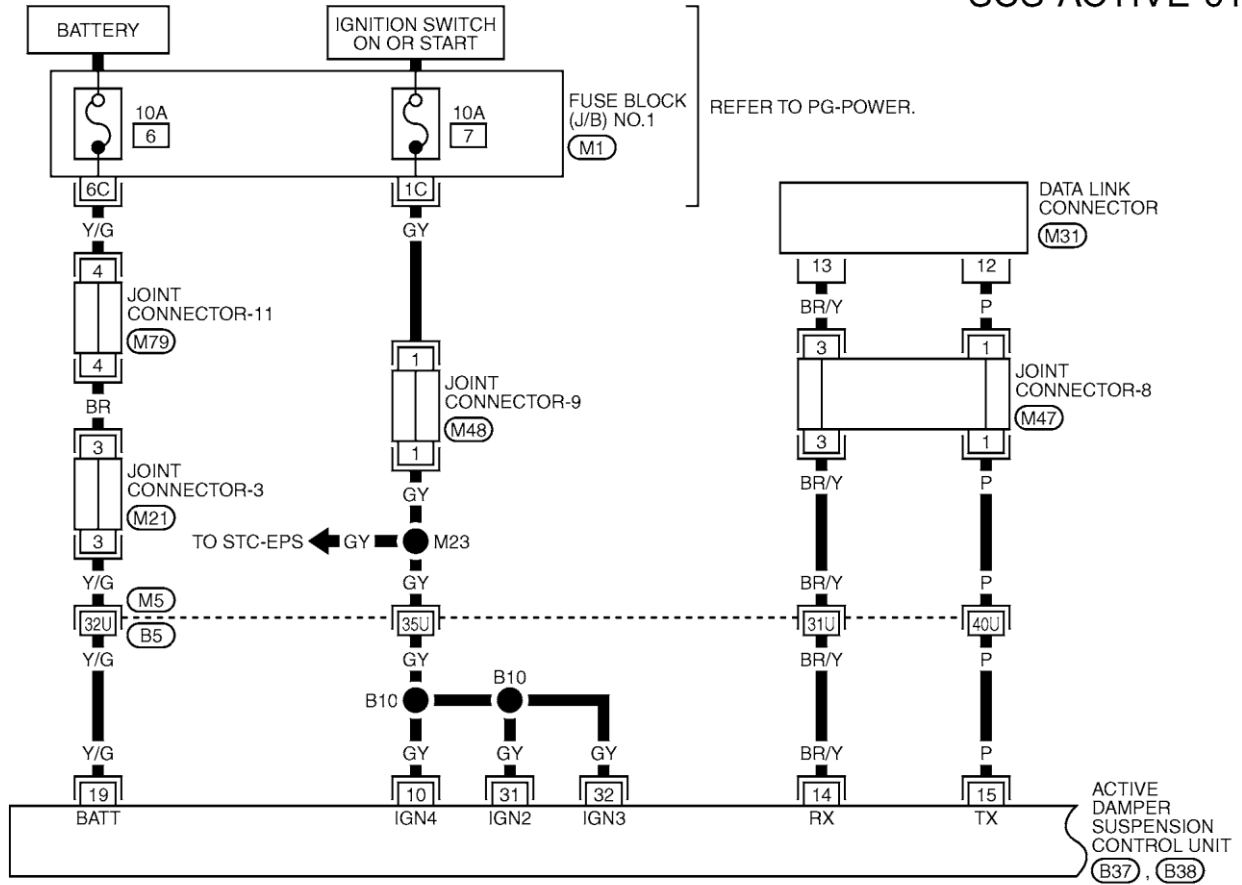
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TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

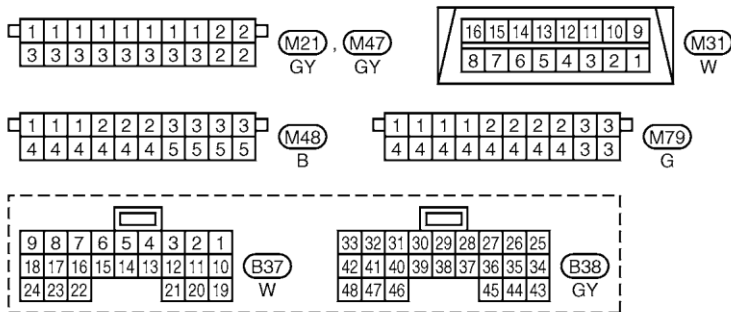
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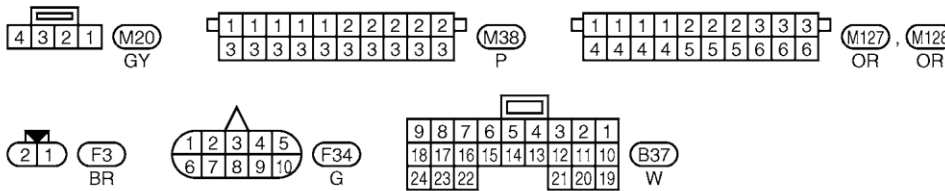
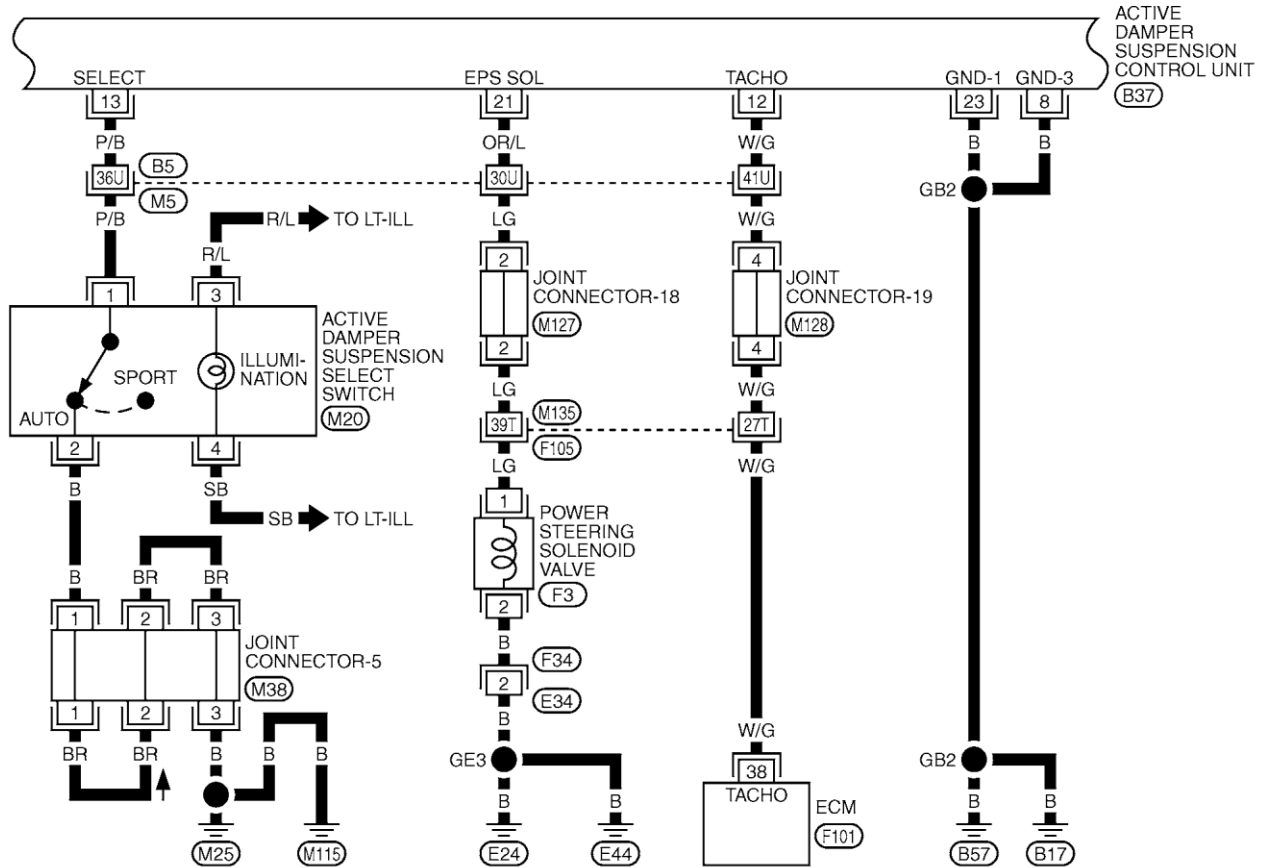
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REFER TO THE FOLLOWING.
(M5) -SUPER MULTIPLE JUNCTION (SMJ)
(M1) -FUSE BLOCK-JUNCTION BOX (J/B) NO.1

TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

SCS-ACTIVE-02



REFER TO THE FOLLOWING.
 (M5), (F105) -SUPER MULTIPLE JUNCTION (SMJ)
 (F101) -ELECTRICAL UNITS

TROUBLE DIAGNOSIS FOR ACTIVE DAMPER SUSPENSION

SCS-ACTIVE-03

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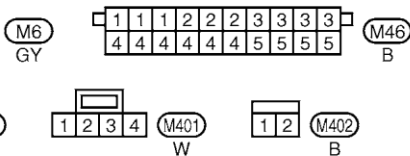
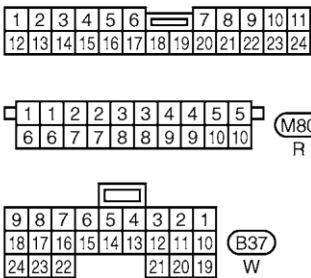
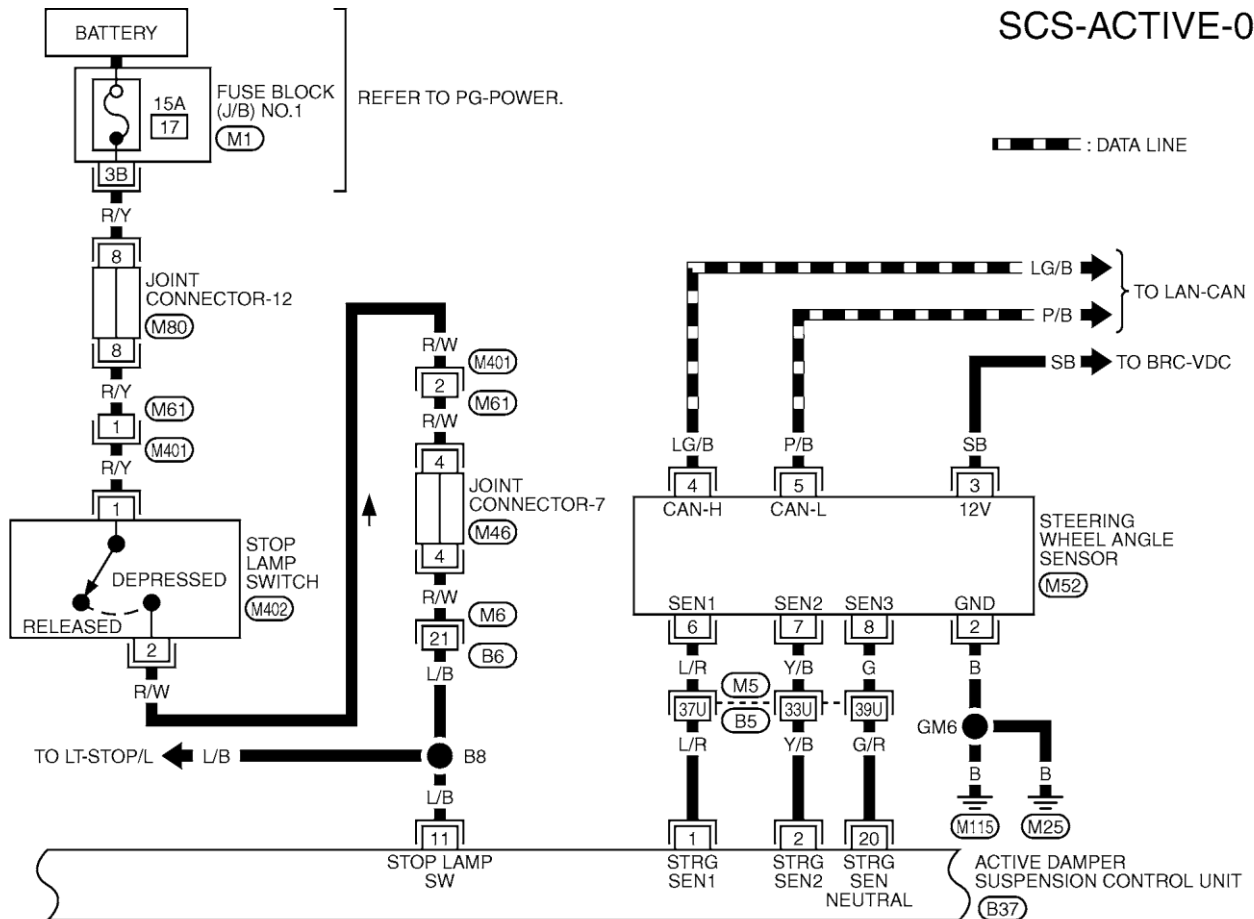
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REFER TO THE FOLLOWING.

- (M5) -SUPER MULTIPLE JUNCTION (SMJ)
- (M1) -FUSE BLOCK-JUNCTION BOX (J/B) NO.1

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