ANTI-LOCK BRAKE SYSTEM

1992 Infiniti G20

1990-92 BRAKES
Infiniti Anti-Lock Brake System

Infiniti; G20, M30, Q45

DESCRIPTION & OPERATION

The Anti-Lock Brake System (ABS) prevents wheel lock-up during abrupt braking. The system detects wheel rotation rate and electronically controls fluid pressure applied to the brakes.

A slight vibration and noise may be noticed during hard braking. These conditions are normal and indicate the anti-lock brake system is functioning properly. If a malfunction occurs in the system, anti-lock feature will not function but conventional brakes will continue to operate normally. See Figs. 1-9.

NOTE: For more information on brake system, see BRAKE SYSTEM article.

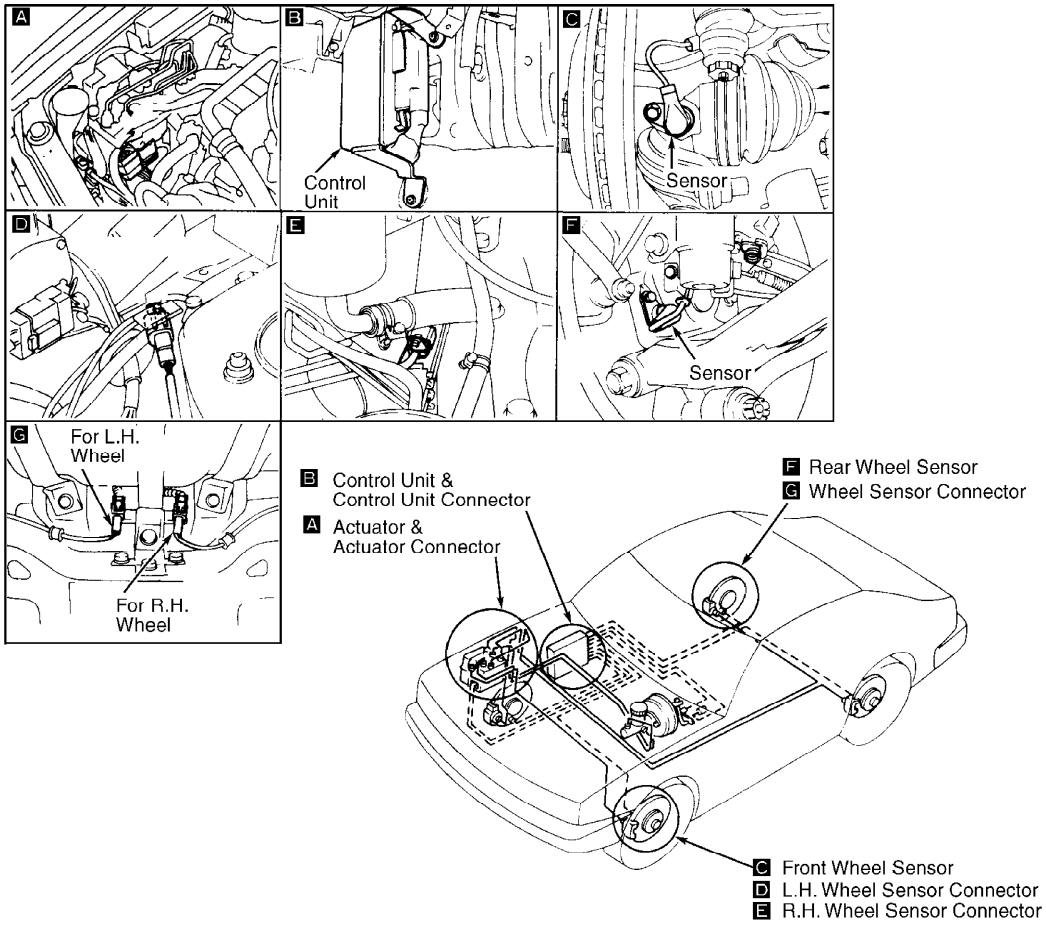

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Fig. 1: ABS Component Locations (G20)
Courtesy of Nissan Motor Co., U.S.A.

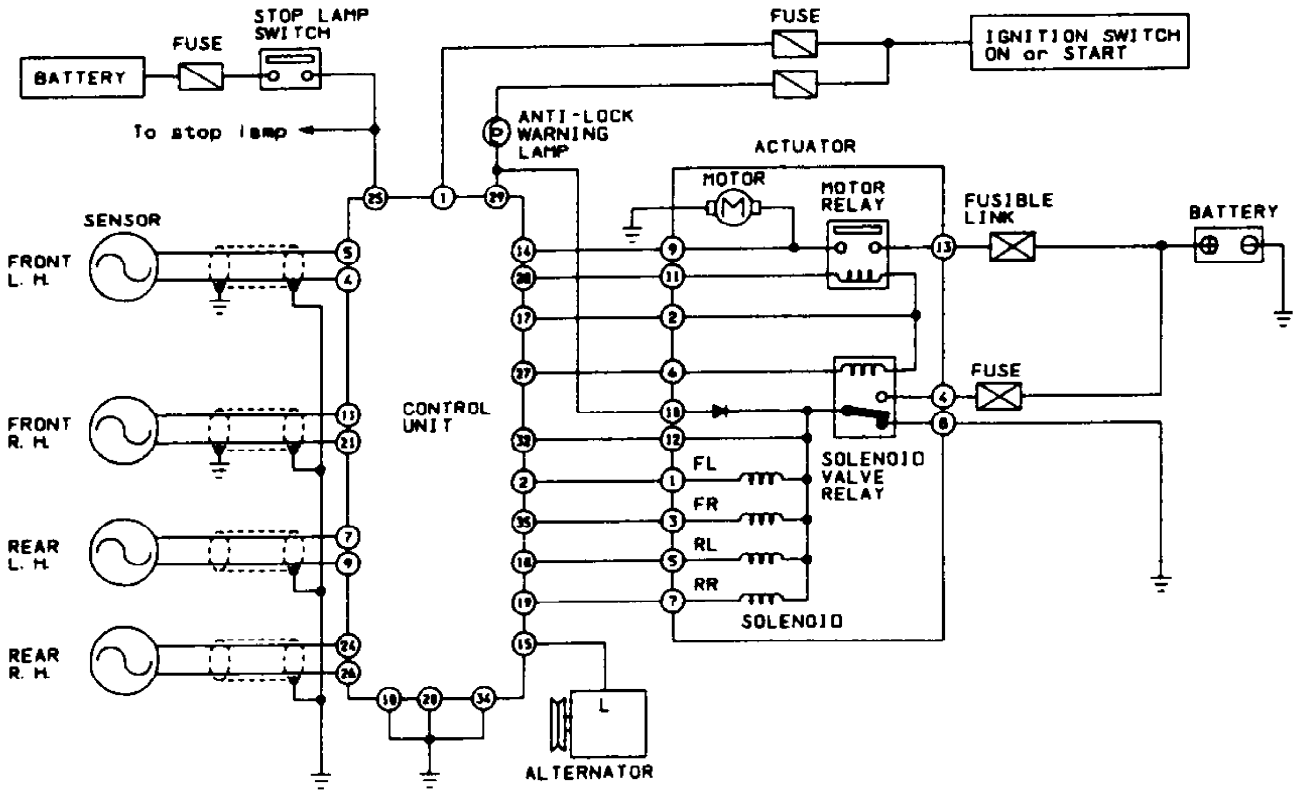

Fig. 2: ABS Wiring Schematic (G20)
Courtesy of Nissan Motor Co., U.S.A.

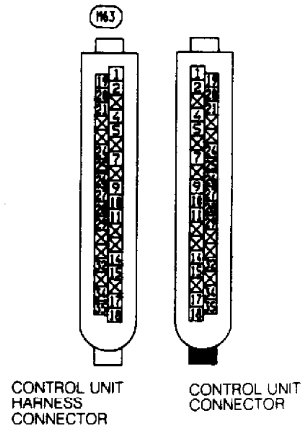

Fig. 3: ABS Control Unit Connectors(G20)
Courtesy of Nissan Motor Co., U.S.A.

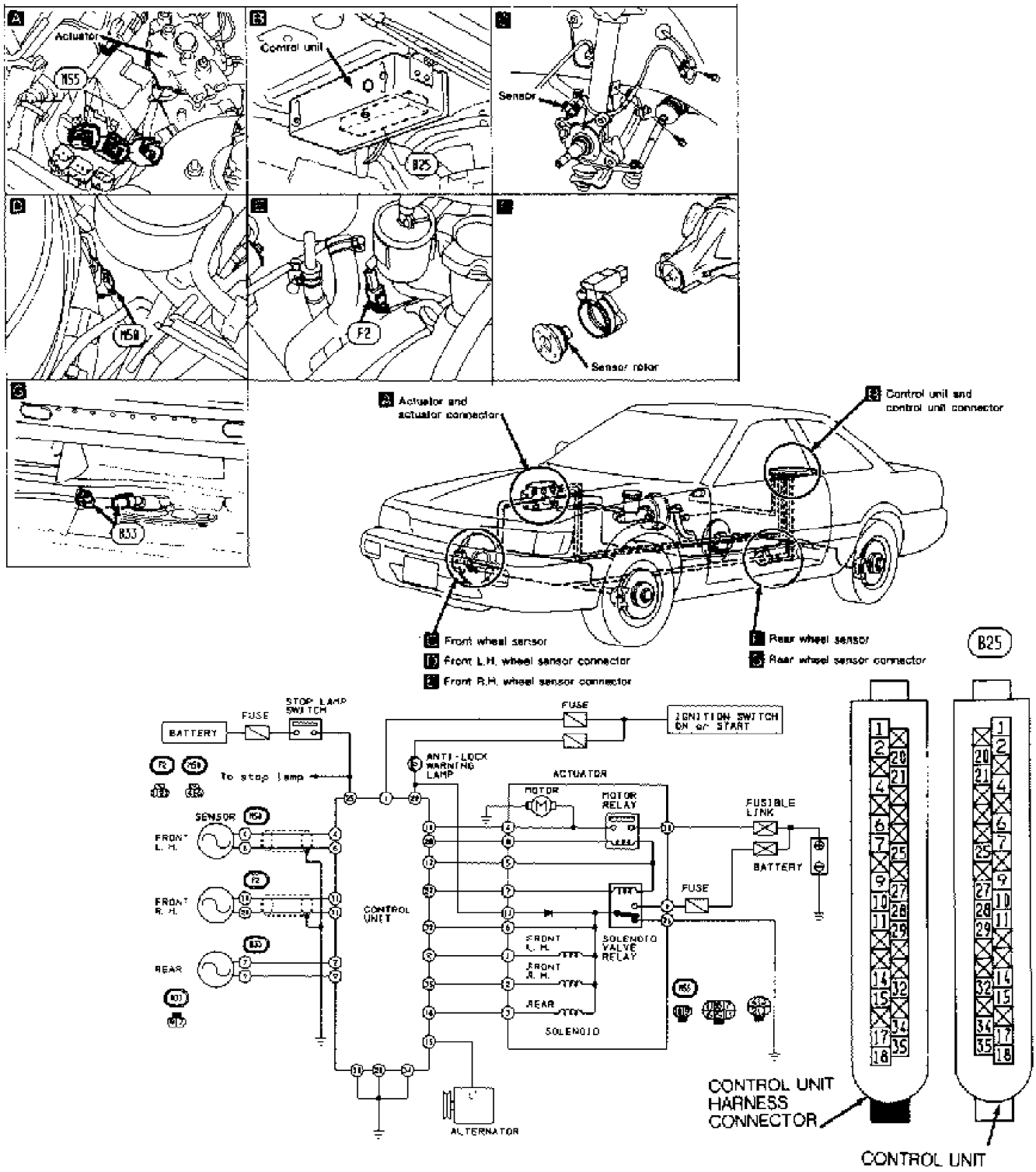

Fig. 4: ABS Component Locations (M30)
Courtesy of Nissan Motor Co., U.S.A.

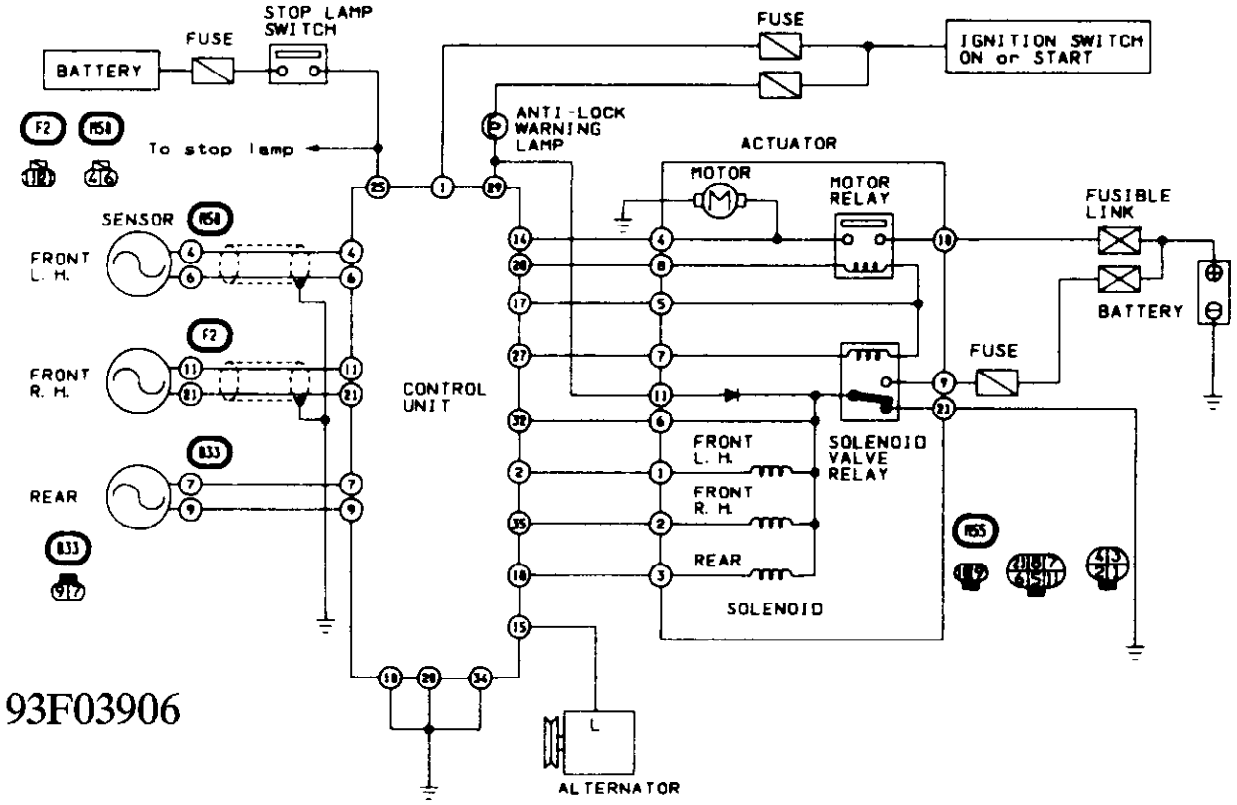

Fig. 5: ABS Wiring Schematic (M30)
Courtesy of Nissan Motor Co., U.S.A.

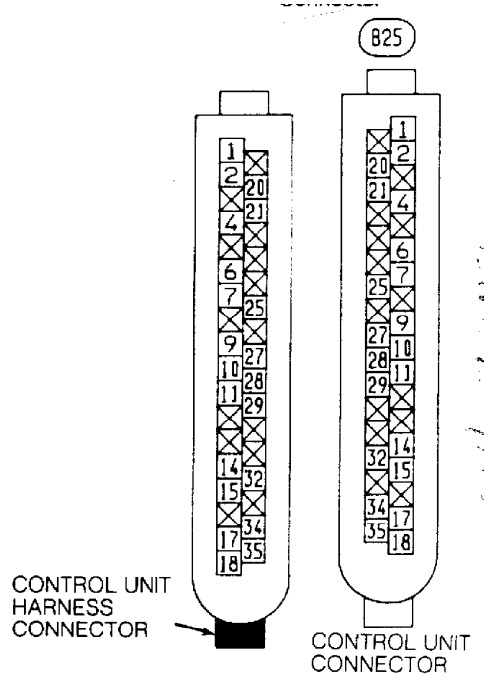

Fig. 6: ABS Control Unit Connectors(M30)
Courtesy of Nissan Motor Co., U.S.A.

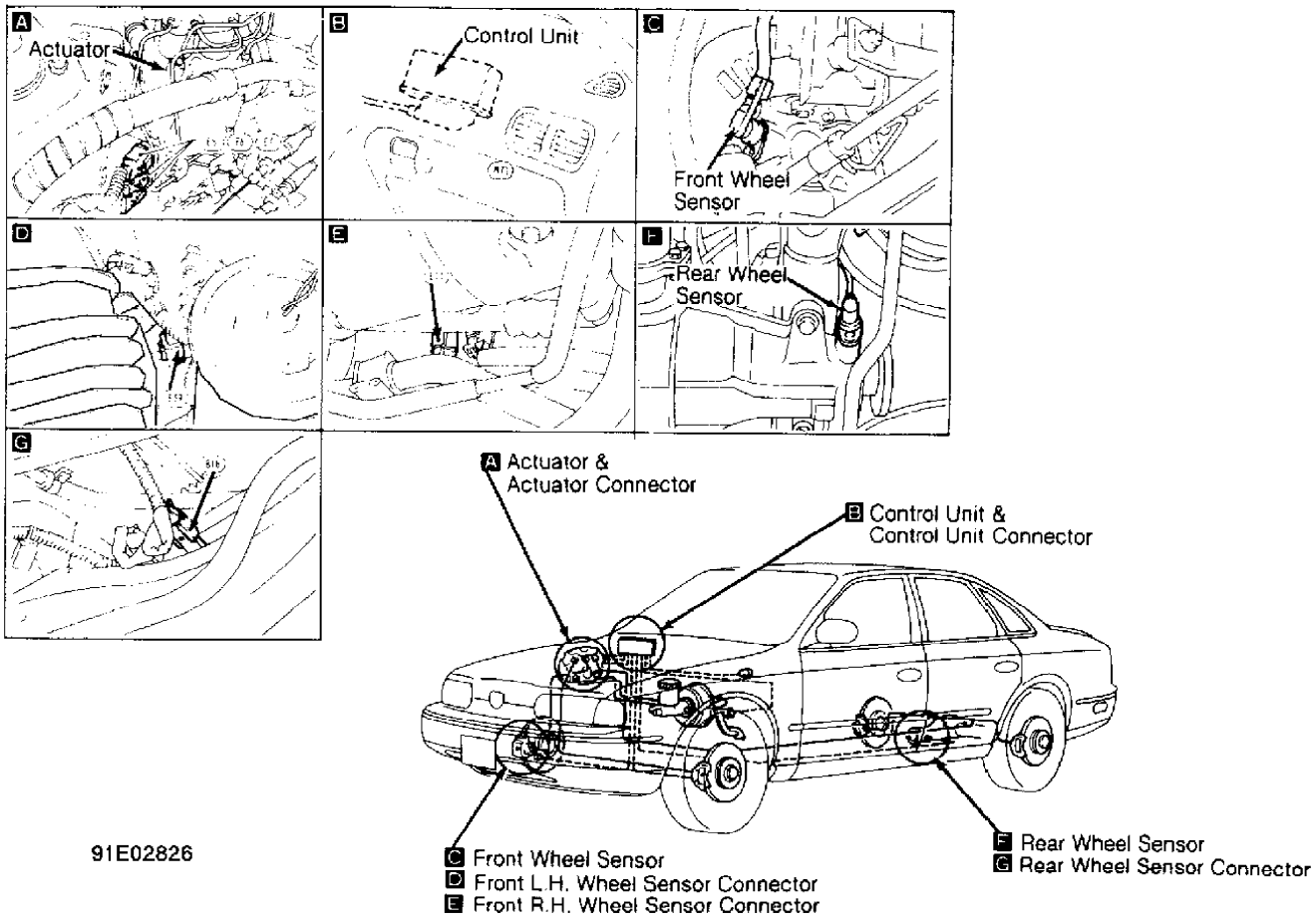

Fig. 7: ABS Component Locations & Wiring Schematic (Q45)
Courtesy of Nissan Motor Co., U.S.A.

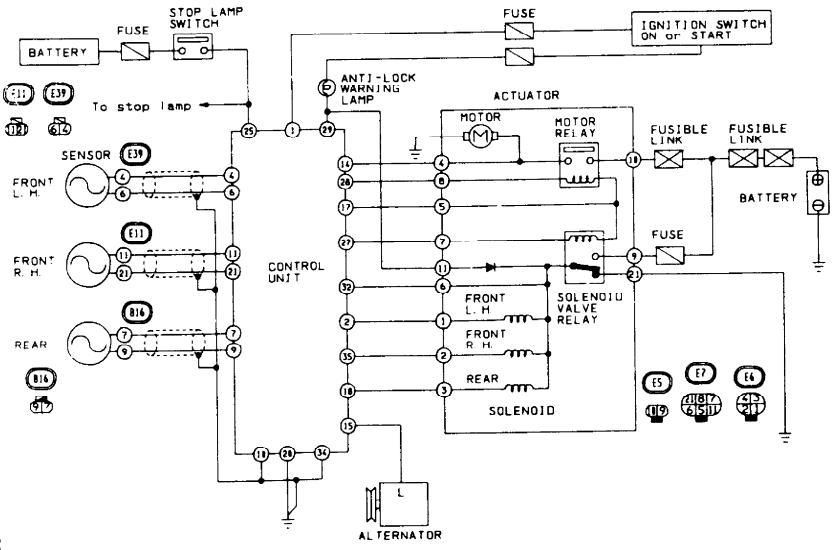

Fig. 8: ABS Wiring Schematic (Q45)
Courtesy of Nissan Motor Co., U.S.A.

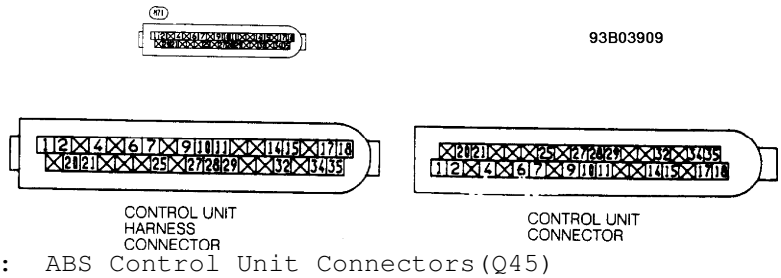

Fig. 9: ABS Control Unit Connectors(Q45)
Courtesy of Nissan Motor Co., U.S.A.

SERVICING

CHECKING BRAKE FLUID LEVEL

Fluid level should be between maximum and minimum lines on master cylinder reservoir. If fluid level is extremely low, check brake system for leaks. When BRAKE warning light comes on (parking brake lever released), check brake system for leaks. Use DOT 3 brake fluid to replenish reservoir.

ANTI-LOCK BRAKE SAFETY PRECAUTIONS

* NEVER open a bleeder valve or loosen a hydraulic line while ABS is pressurized
* NEVER disconnect or reconnect any electrical connectors while ignition is on. Damage to ABS control unit may result.
* DO NOT attempt to bleed hydraulic system without first referring to the appropriate article.
* Only use specially designed brake hoses/lines on ABS-equipped vehicles.
* DO NOT tap on speed sensor components (sensor, sensor rings). Speed rings must be pressed, NOT hammered into hubs. Striking these components can cause demagnetization or a loss of polarization, affecting the accuracy of the speed signal returning to the ABS control unit.
* DO NOT mix tire sizes. Increasing the width, as long as tires remain close to the original diameter, is acceptable. Rolling diameter must be identical for all 4 tires. Some manufacturers recommend tires of the same brand, style and type. Failure to follow this precaution may cause inaccurate wheel speed readings.
* DO NOT contaminate speed sensor components with grease. Only use recommended anti-corrosion coating.
* When speed sensor components have been removed, ALWAYS check sensor-to-ring air gaps when applicable. These specifications can be found in each appropriate article.
* ONLY use recommended brake fluids. DO NOT use silicone brake fluids in an ABS-equipped vehicle.
* When installing transmitting devices (CB's, telephones, etc.) on ABS-equipped vehicles, DO NOT locate the antenna near the ABS control unit (or any control unit).
* Disconnect all on-board computers, when using electric welding equipment.
* DO NOT expose the ABS control unit to prolonged periods of high heat (185°F/85°C for 2 hours is generally considered a maximum limit).

BLEEDING BRAKE SYSTEM

BRAKELINE BLEEDING

1) Carefully monitor brake fluid level at master cylinder during bleeding operation. Fill reservoir with DOT 3 brake fluid. Ensure reservoir is full at all times while bleeding air out of system. Bleed brakes in sequence. See BRAKELINE BLEEDING SEQUENCE table.

2) Connect a transparent vinyl tube to air bleeder valve. Fully depress brake pedal several times. With brake pedal depressed, open air bleeder valve to release air. Close air bleeder valve. Release brake pedal slowly. Repeat procedure until clear brake fluid comes out of air bleeder valve.

BRAKELINE BLEEDING SEQUENCE TABLE

Application	Sequence
G20	LR, RF, RR, LF
M30 & Q45	LR, RR, LF, RF, Front ABS Actuator, Rear ABS Actuator

REMOVAL & INSTALLATION

ACTUATOR

Removal & Installation

Disconnect negative battery cable. Drain brake fluid from brakelines. Mark brakelines for installation reference. Disconnect wiring harness and brakelines. Remove 3 actuator mounting nuts. To install, connect brakelines without tightening. Install and tighten actuator mounting nuts. Tighten brakelines. See TORQUE SPECIFICATIONS table under TORQUE SPECIFICATIONS. After installation, add brake fluid and bleed brakelines. See BLEEDING BRAKE SYSTEM.

FRONT/REAR WHEEL SENSORS

Removal & Installation

Removal and installation procedures are not available. Use illustration for guide. See Fig. 10, 11 or 12. DO NOT damage sensor edge and sensor rotor teeth.

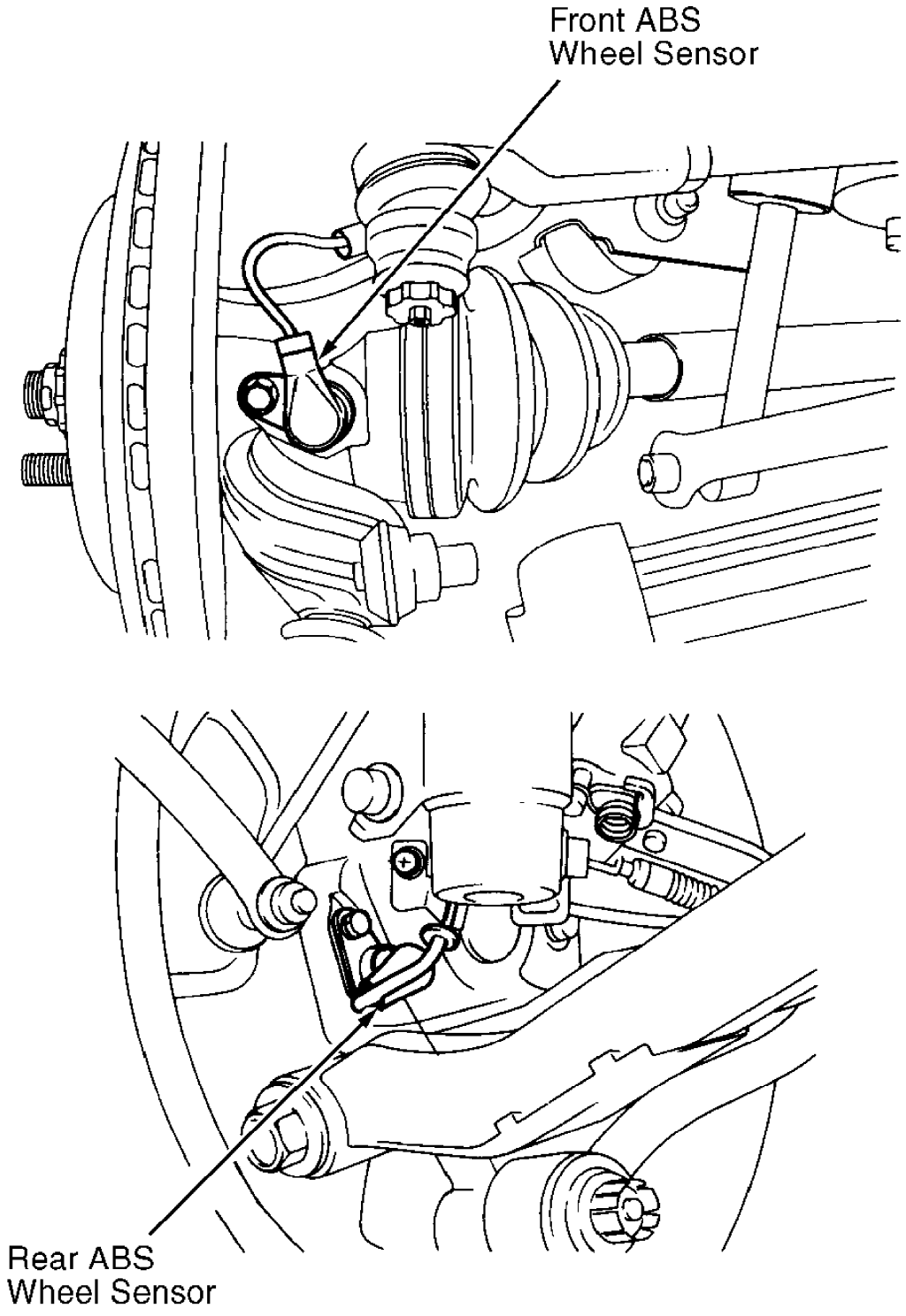

Fig. 10: Locating Front/Rear ABS Sensor (G20)
Courtesy of Nissan Motor Co., U.S.A.

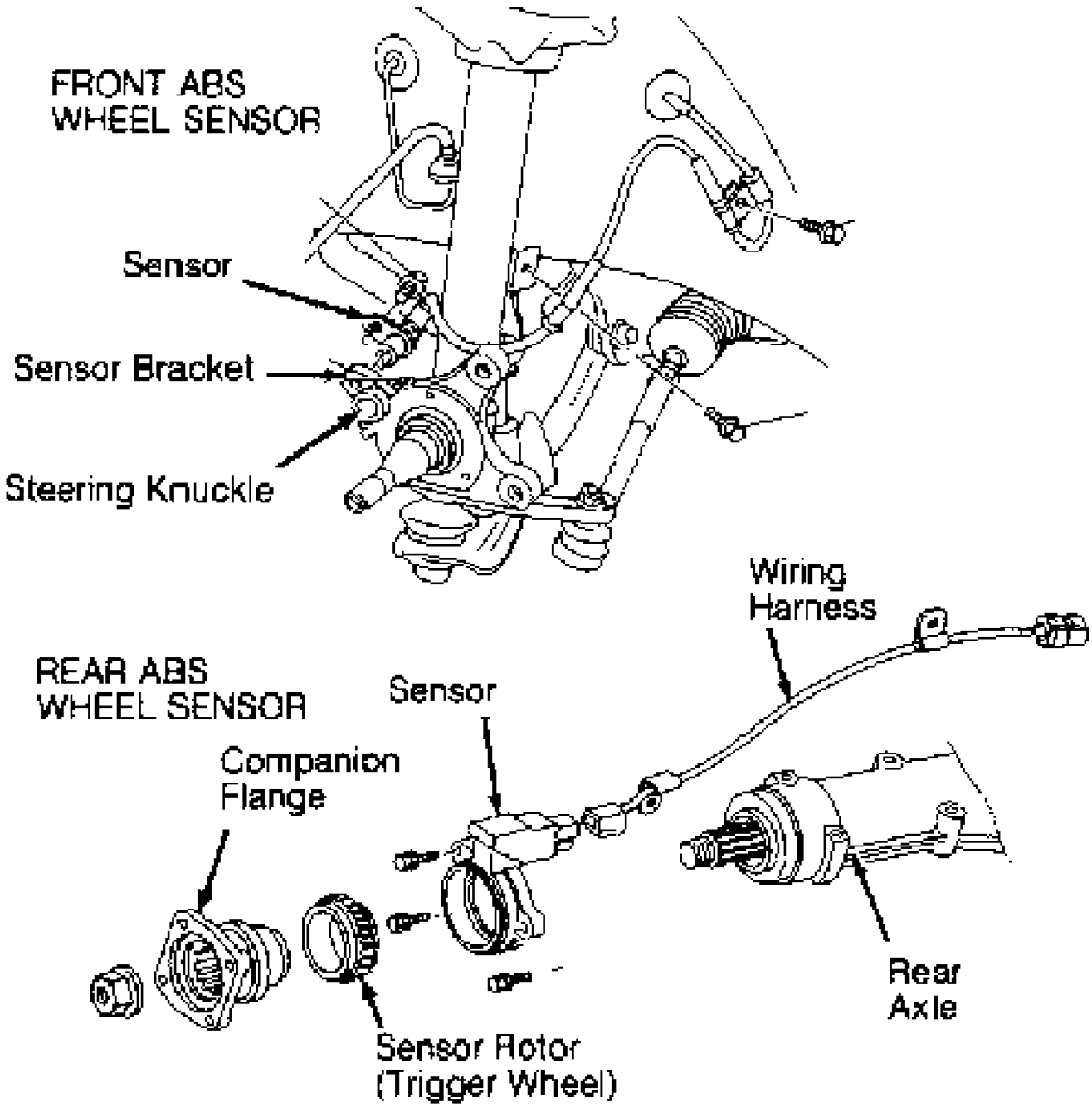

Fig. 11: Removing & Installing Front/Rear ABS Sensor (M30)
Courtesy of Nissan Motor Co., U.S.A.

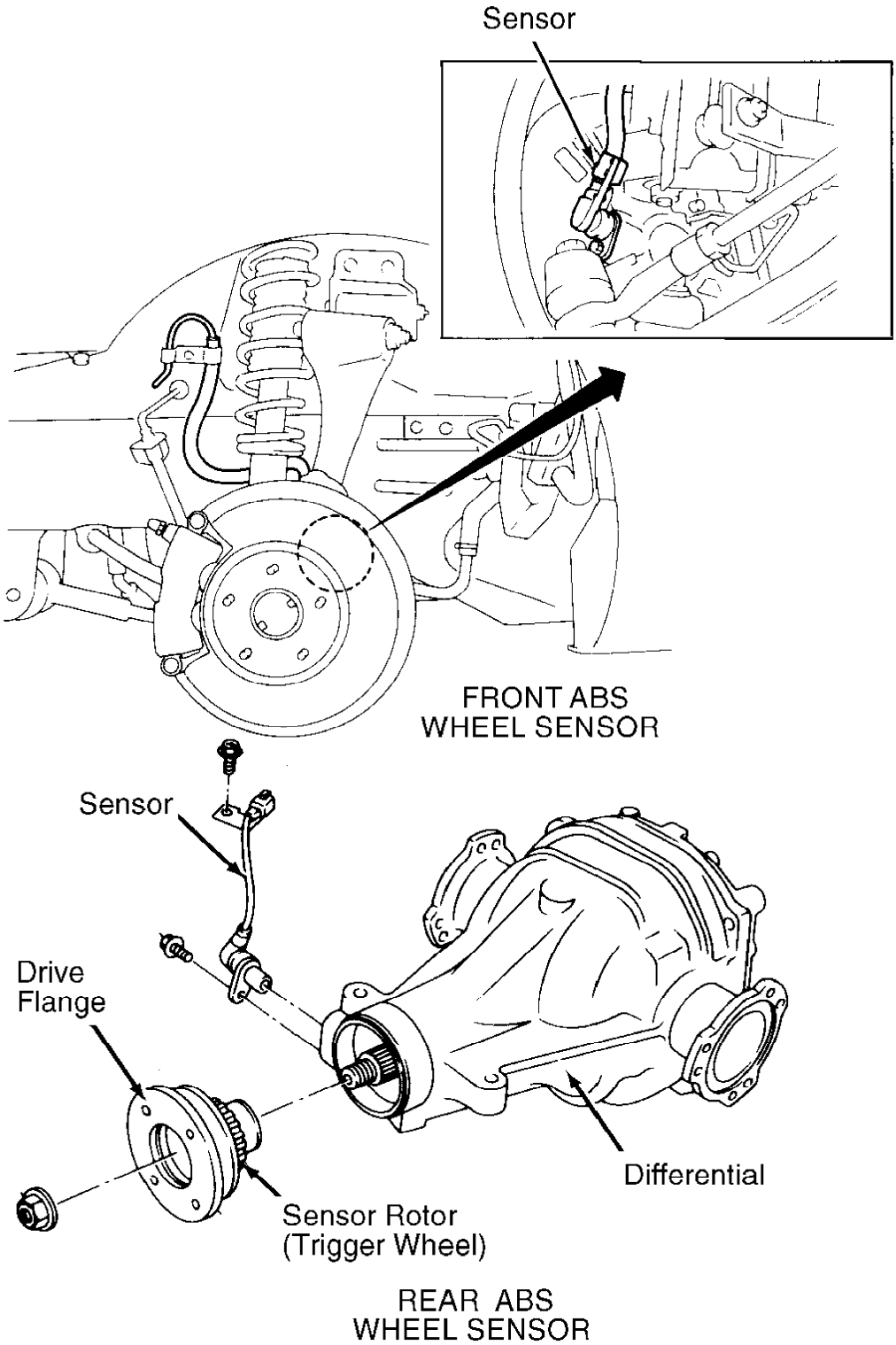

Fig. 12: Removing & Installing Front/Rear ABS Sensor (Q45)
Courtesy of Nissan Motor Co., U.S.A.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

Application	Ft. Lbs. (N.m)
Brakeline Flare Nuts	11-13 (15-18)
Companion Flange Nut (M30)	137-159 (186-216)
Drive Pinion Nut (Q45)	137-217 (186-294)
Rear Sensor Mounting Nut (Q45)	13-20 (18-26)
	INCH Lbs. (N.m)
Actuator Mounting Nuts	96-144 (11-16)
Front Harness Retainer Nut (M30)	34.8-51.6 (4.0-5.9)
Front Sensor Bracket (M30)	71-96 (8-11)
Front Sensor Mounting Nut	
G20	96-132 (11-15)
M30 & Q45	96-144 (11-16)
Rear Harness Retainer Nut (Q45)	38.4-51.6 (4.3-5.9)
Rear Sensor Mounting Nut (G20)	96-132 (11-15)
Rear Sensor-To-Axle Tube	71-96 (8-11)

DIAGNOSIS & TESTING

PRELIMINARY CHECKS

NOTE: Before starting ABS system checks, road test vehicle to confirm customer complaint.

Preliminary Check No. 1

Ensure brake fluid level is correct. Add fluid if necessary. Inspect mechanical condition of conventional brake system, including brake booster and component adjustments. See DISC article. Repair or adjust brake system as necessary.

Preliminary Check No. 2

Check wheel sensor clearance. See WHEEL SENSOR CLEARANCE table. Check rear sensor rotor (trigger wheel) teeth for damage. Check for dust, foreign materials and/or improper installation. If necessary, replace sensor rotor with wheel hub or companion flange as a set.

WHEEL SENSOR CLEARANCE TABLE

Application	In. (mm)
G20	.008-.039 (0.20-1.00)
M30	.012-.020 (0.30-0.51)
Q45	
Front	.0083-.0280 (.200-.710)
Rear	.0138-.0246 (.350-.625)

Preliminary Check No. 3

Measure each wheel sensor resistance. Resistance should be 800-1200 ohms. If resistance is not as specified, replace sensor(s).

Preliminary Check No. 4

1) Check anti-lock warning light for proper operation when ignition is turned on. If light does not glow, check ABS fuse and bulb.

2) If light glows, start engine. If light goes out, go to next step. If light does not go out, keep engine running. On M30, locate ABS control unit in trunk (on rear shelf, next to speakers). See Fig. 4. On G20 and Q45, ABS control unit is under right side of dash (behind glove box). See Fig. 1 or 7. On all models, count number of LED flashes during 5-10 second OFF period and then go to SELF-DIAGNOSIS.

3) Road test vehicle at least one minute at speed greater than 19 MPH (30 km/h). If anti-lock warning light remains off and ABS operation is abnormal, perform PRELIMINARY CHECK NO. 2. If light comes on, go to next step.

4) Keep engine running. Observe LED on ABS control unit. Count number of LED flashes during 5-10 second OFF period and then go to SELF-DIAGNOSIS.

SELF-DIAGNOSIS

1) When a problem occurs in anti-lock brake system, warning light on instrument cluster comes on. To obtain satisfactory self-diagnostic results, always road test vehicle at least one minute at speed greater than 19 MPH (30 km/h).

2) Stop vehicle, but keep engine running. On M30, locate ABS control unit in trunk (on rear shelf, next to speakers). See Fig. 4. On G20 and Q45, ABS control unit is under right side of dash (behind glove box). See Fig. 1 or 7. Count number of LED flashes during 5-10 second period, and go to appropriate SELF-DIAGNOSTICS CHART. See Fig. 7 or 8. If more than 2 circuits malfunction at same time, LED will display only one malfunction. After circuit has been repaired, LED will then display any remaining system malfunctions.

3) Turn ignition off after repairs. Road test vehicle to verify malfunction has been corrected. If ignition is not turned off, warning light and LED will continue to indicate problem exists even though malfunction has been repaired.

DIAGNOSING BY SYMPTOMS

To diagnose Anti-Lock Brake System (ABS) by symptom, refer to appropriate SYMPTOM CHART. See Fig. 13 or 15. Chart will indicate proper procedures to follow based on symptom observed.

NOTE: For diagnostic procedures, see appropriate DIAGNOSTIC PROCEDURES CHARTS. For preliminary check procedures, see PRELIMINARY CHECKS.

SYMPTOM CHART

PROCEDURE / SYMPTOM	Preliminary Check *				Diagnostic Procedure						Diagnostic Procedure (Select inspection with L.E.D.) flashing No. **						Ground Circuit Check	Electrical Components Inspection
	Preliminary Check 1	Preliminary Check 2	Preliminary Check 3	Preliminary Check 4	Diagnostic Procedure 1	Diagnostic Procedure 2	Diagnostic Procedure 3	Diagnostic Procedure 4	Diagnostic Procedure 5	Diagnostic Procedure 6	Diagnostic Procedure 7	Diagnostic Procedure 8	Diagnostic Procedure 9	Diagnostic Procedure 10	Diagnostic Procedure 11	Diagnostic Procedure 12	Motor ground	Actuator inspection
Pedal vibration & noise			O	O	O						O	O	O	O	O	O		
Warning activates		O	O	O							O	O	O	O	O	O		
Long stopping distance	O			O		O					O	O	O	O	O	O		
Unexpected pedal action	O			O			O				O	O	O	O	O	O		
ABS doesn't work		O		O				O			O	O	O	O	O	O	O	O
ABS works but warning activates				O					O		O	O	O	O	O	O		
ABS works frequently	O	O								O								

* See PRELIMINARY CHECKS under DIAGNOSIS & TESTING.
** See SELF-DIAGNOSTICS CHART for reference to appropriate diagnostic procedure number.

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Fig. 13: ABS Symptom Charts (G20)
Courtesy of Nissan Motor Co., U.S.A.

SELF-DIAGNOSTICS CHART

SELF-DIAGNOSTICS CHART (G20)

No. Of LED Flashes	Malfunctioning Part Or Unit	Diagnostic Procedure No.
1	Left Front Actuator Solenoid Circuit	7
2	Right Front Actuator Solenoid Circuit	7
3	Right Rear Actuator Solenoid Circuit	7
4	Left Rear Actuator Solenoid Circuit	7
5	Left Front Wheel Sensor Circuit	8
6	Right Front Wheel Sensor Circuit	8
7	Right Rear Wheel Sensor Circuit	8
8	Left Rear Wheel Sensor Circuit	8
9	Motor & Motor Relay	9
10	Solenoid Valve Relay	10
16	Control Unit	11
Warning Activates/ LED Off	Power Supply Or Ground Circuit For Control Unit	12

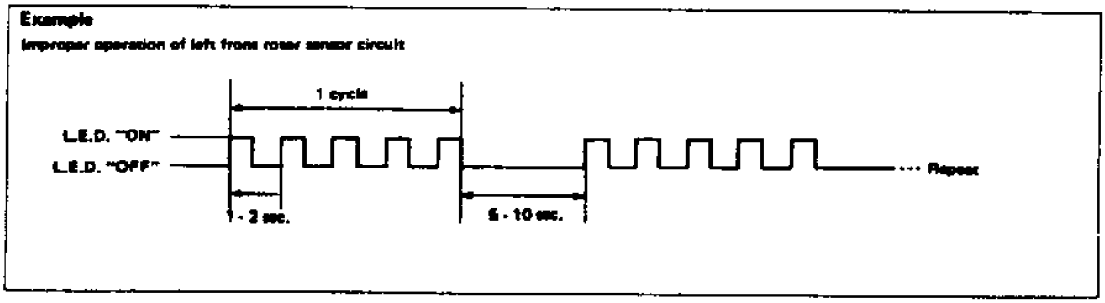

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Fig. 14: Front Rotor Sensor Circuit Input Chart (G20)
Courtesy of Nissan Motor Co., U.S.A.

SYMPTOM CHART

PROCEDURE / SYMPTOM	Preliminary Check *				Diagnostic Procedure					Diagnostic Procedure (Select inspection with L.E.D. flashing No.						Ground Circuit Check		Electrical Components Inspection
	Preliminary Check 1	Preliminary Check 2	Preliminary Check 3	Preliminary Check 4	Diagnostic Procedure 1	Diagnostic Procedure 2	Diagnostic Procedure 3	Diagnostic Procedure 4	Diagnostic Procedure 5	Diagnostic Procedure 6	Diagnostic Procedure 7	Diagnostic Procedure 8	Diagnostic Procedure 9	Diagnostic Procedure 10	Diagnostic Procedure 11	Control unit ground	Motor ground	Actuator inspection
Pedal vibration & noise			○	○	○					○	○	○	○	○	○			
Warning activates		○	○	○						○	○	○	○	○	○			
Long stopping distance	○			○		○				○	○	○	○	○	○			
Abnormal pedal action	○			○			○			○	○	○	○	○	○			
A.B.S. doesn't work		○		○				○		○	○	○	○	○	○	○	○	○
A.B.S. works but warning activates				○					○	○	○	○	○	○	○			

* See PRELIMINARY CHECKS under DIAGNOSIS & TESTING.

SELF-DIAGNOSTICS CHART

No. of L.E.D. flashes	Malfunctioning part or unit	Diagnostic Procedure
1	Left front actuator solenoid circuit	Diagnostic Procedure 6
2	Right front actuator solenoid circuit	
3 or 4	Rear actuator solenoid circuit	
5	Left front wheel sensor circuit	Diagnostic Procedure 7
6	Right front wheel sensor circuit	
7 or 8	Rear wheel sensor circuit	
9	Motor and motor relay	Diagnostic Procedure 8
10	Solenoid valve relay	Diagnostic Procedure 9
16 or continuous	Control unit	Diagnostic Procedure 10
Warning activates and L.E.D. "OFF"	Power supply or ground circuit for control unit	Diagnostic Procedure 11

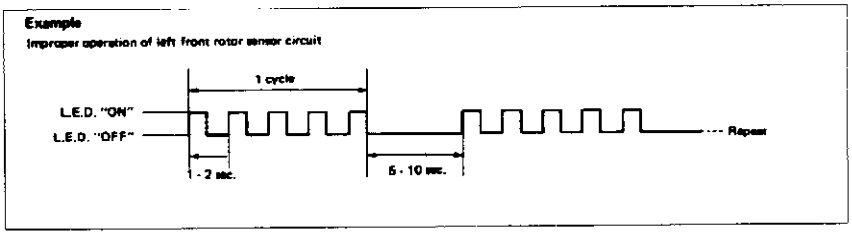

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Fig. 15: ABS Symptom & Front Rotor Sensor Circuit Input Chart (M30 & Q45)
Courtesy of Nissan Motor Co., U.S.A.

SELF-DIAGNOSTICS CHART (M30 & Q45)

No. Of LED Flashes	Malfunctioning Part Or Unit	Diagnostic Procedure No.
1	Left Front Actuator Solenoid Circuit	6
2	Right Front Actuator Solenoid Circuit	6
3 or 4	Rear Actuator Solenoid Circuit	6
5	Left Front Wheel Sensor Circuit	7
6	Right Front Wheel Sensor Circuit	7
7 or 8	Rear Wheel Sensor Circuit	7
9	Motor & Motor Relay	8
10	Solenoid Valve Relay	9
16 or Continuous	Control Unit	10
Warning Activates/ LED Off	Power Supply Or Ground Circuit For Control Unit	11

DIAGNOSTIC PROCEDURE CHARTS (G20)

For component locations and wiring schematics of Anti-Lock Brake System (ABS), see Figs. 1-3. For ground check, see Fig. 16. For diagnostic procedures No. 1-12, see Figs. 17-27. For electronic components check, see Figs. 29 and 30.

NOTE: For additional wiring diagrams, see Figs. 57-59 at end of article and appropriate chassis wiring diagrams in WIRING DIAGRAMS.

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Fig. 16: ABS Ground Circuit Check (G20)
Courtesy of Nissan Motor Co., U.S.A.

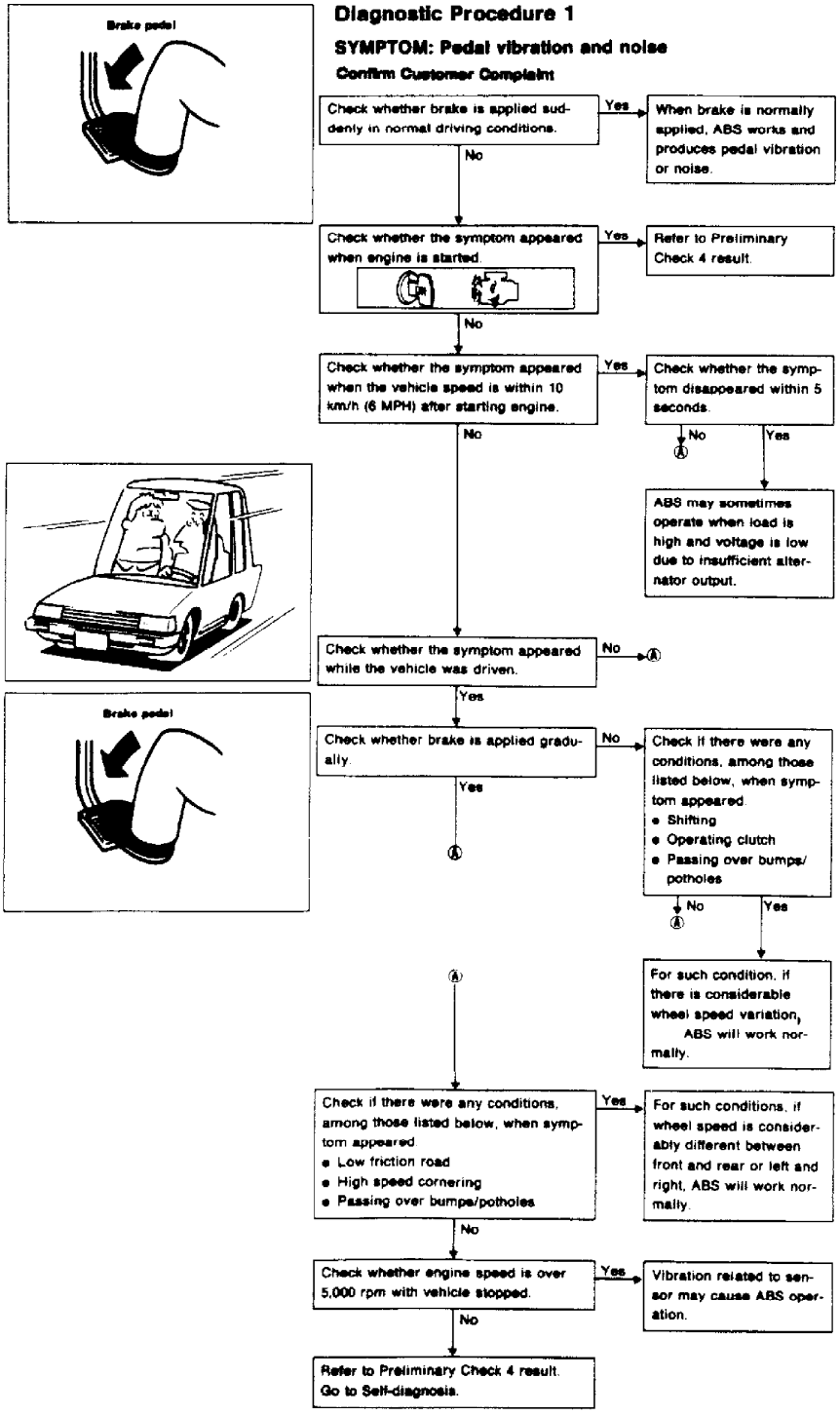

Fig. 17: ABS Diagnostic Procedure No. 1 (G20)
Courtesy of Nissan Motor Co., U.S.A.

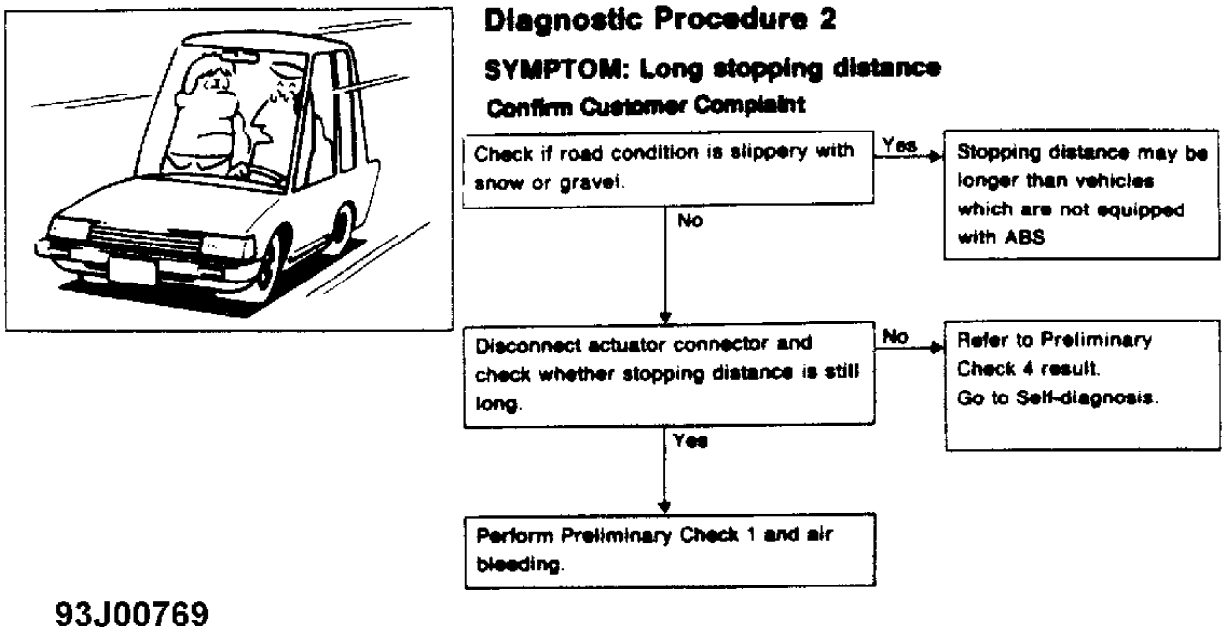

Fig. 18: ABS Diagnostic Procedure No. 2 (G20)
Courtesy of Nissan Motor Co., U.S.A.

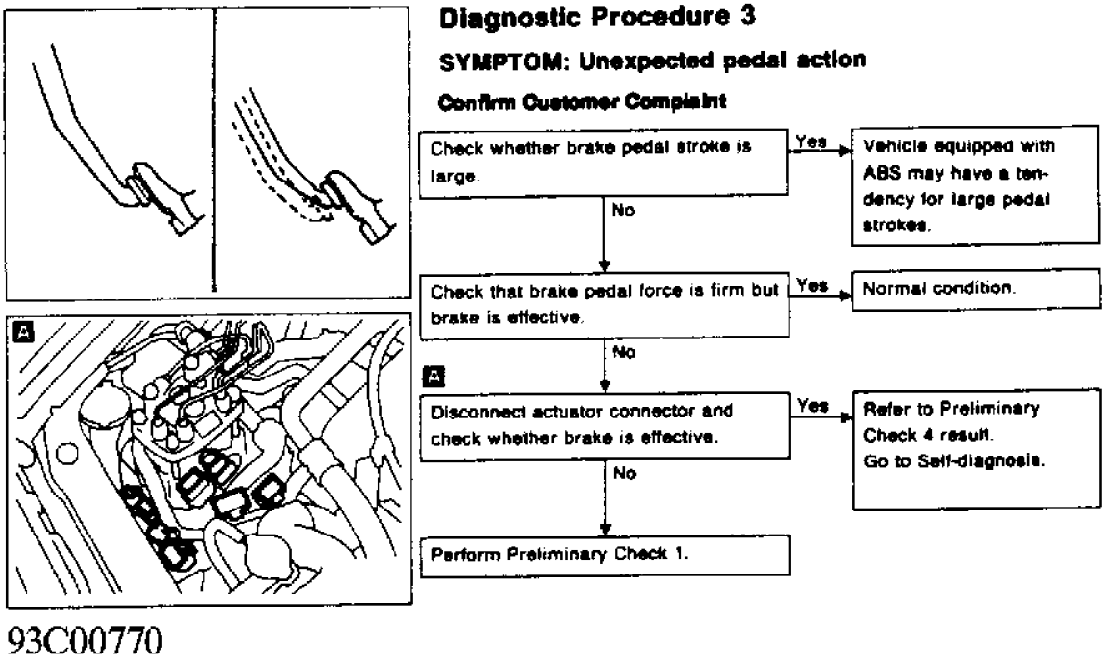

Fig. 19: ABS Diagnostic Procedure No. 3 (G20)
Courtesy of Nissan Motor Co., U.S.A.

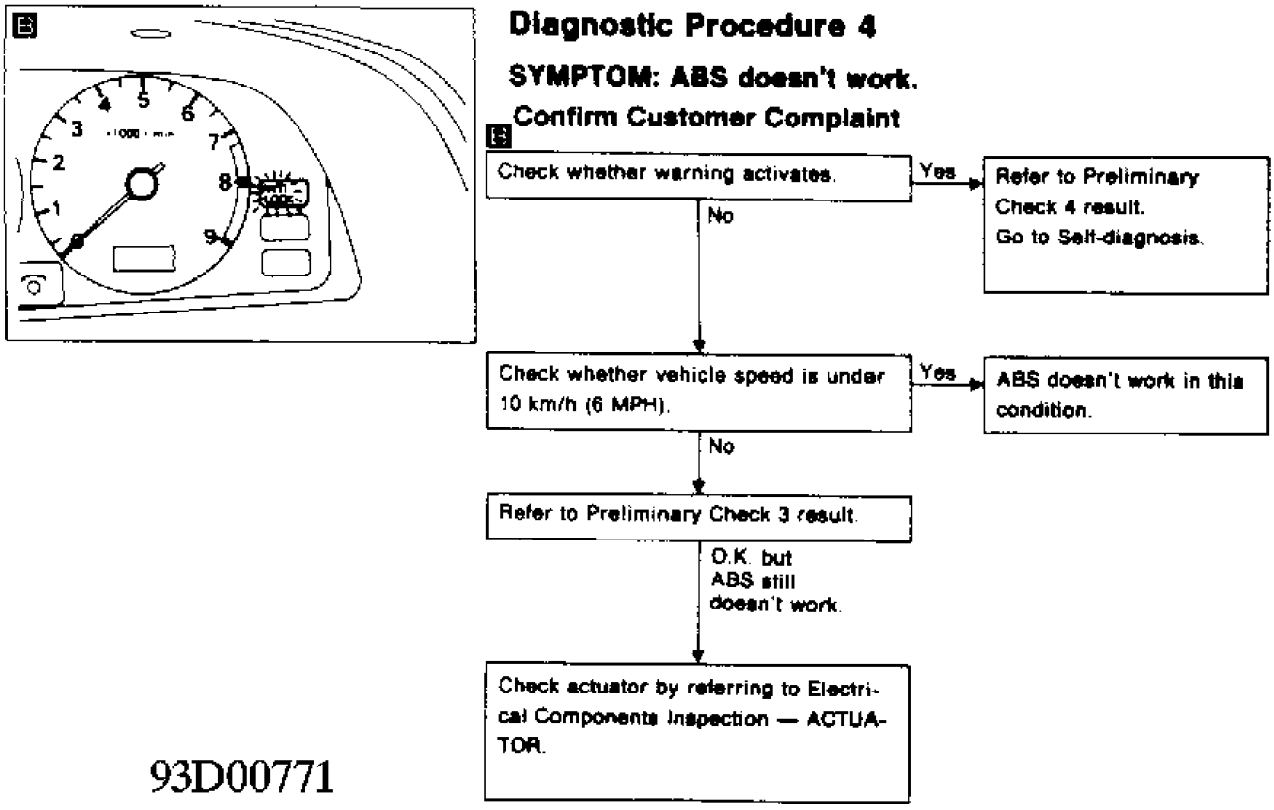

Fig. 20: ABS Diagnostic Procedure No. 4 (G20)
Courtesy of Nissan Motor Co., U.S.A.

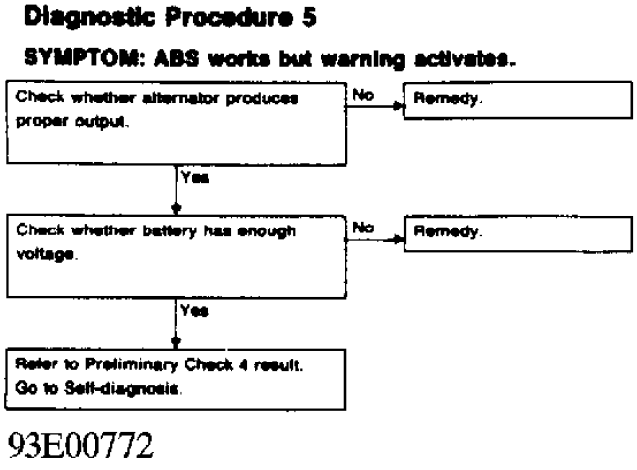

Fig. 21: ABS Diagnostic Procedure No. 5 (G20)
Courtesy of Nissan Motor Co., U.S.A.

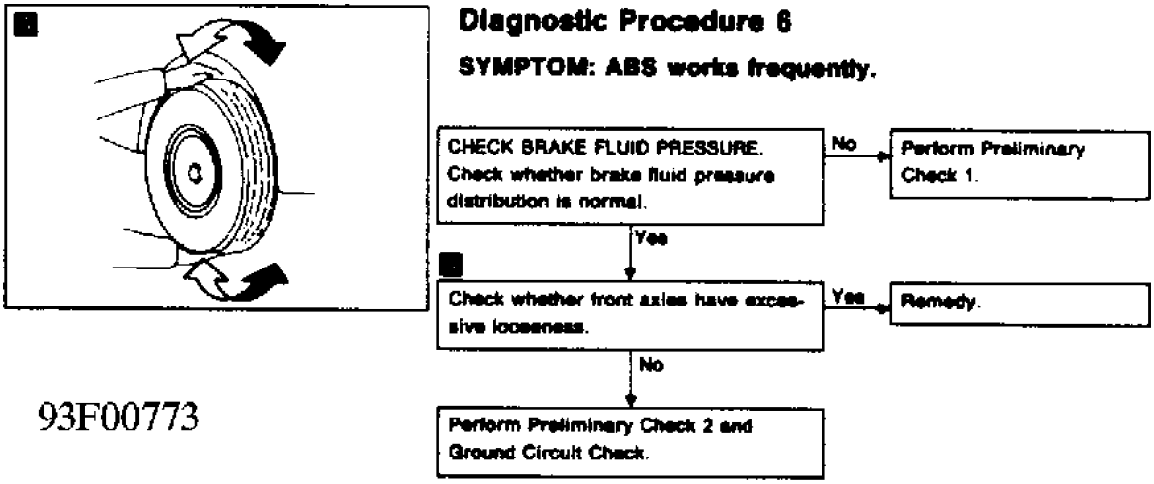

Fig. 22: ABS Diagnostic Procedure No. 6 (G20)
Courtesy of Nissan Motor Co., U.S.A.

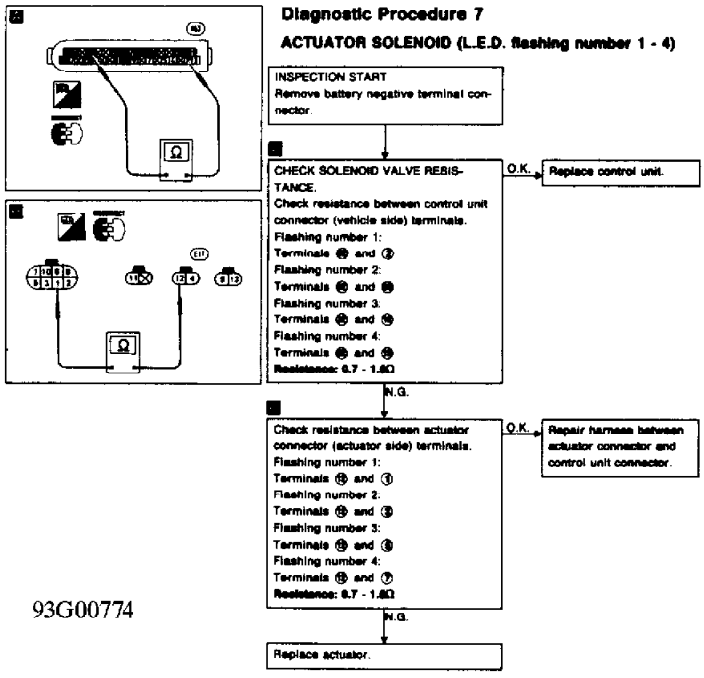

Fig. 23: ABS Diagnostic Procedure No. 7 (G20)
Courtesy of Nissan Motor Co., U.S.A.

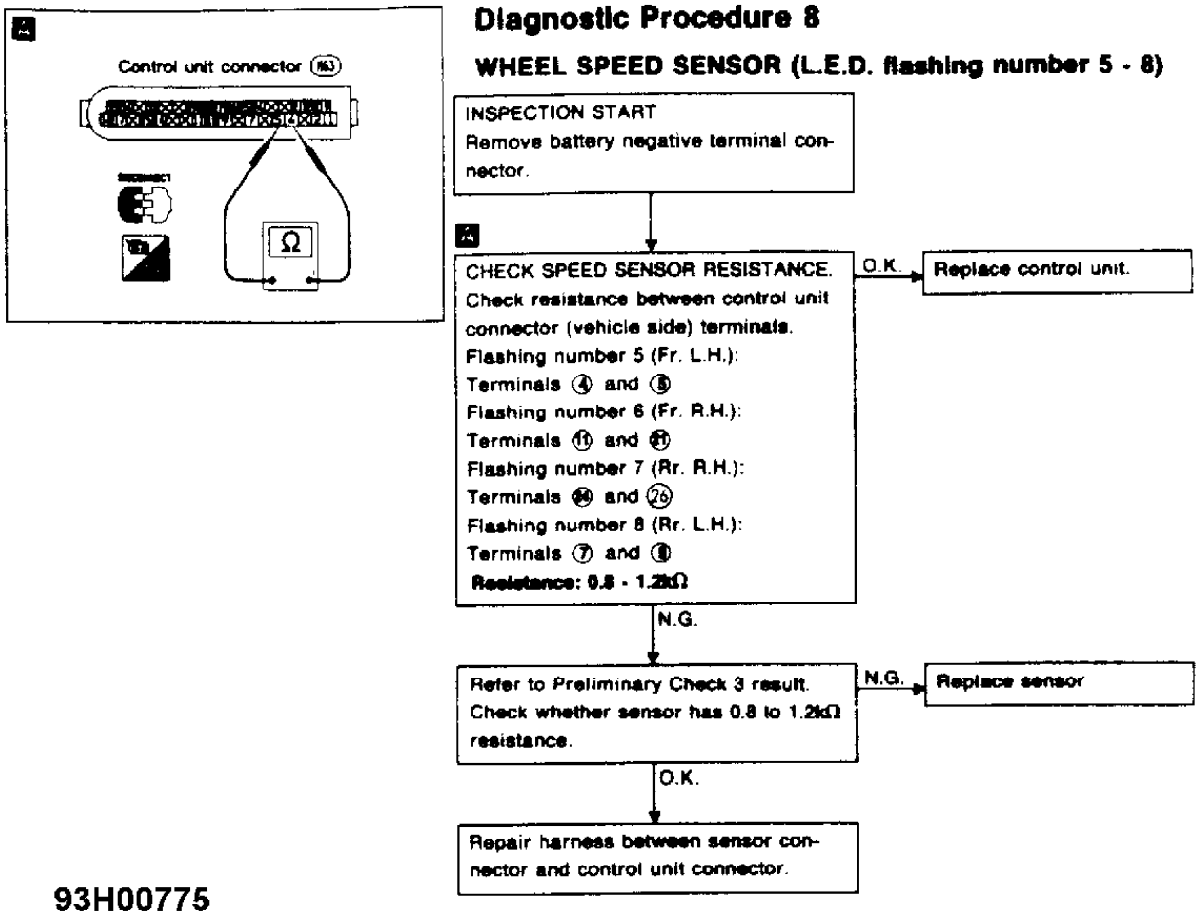

Fig. 24: ABS Diagnostic Procedure No. 8 (G20)
Courtesy of Nissan Motor Co., U.S.A.

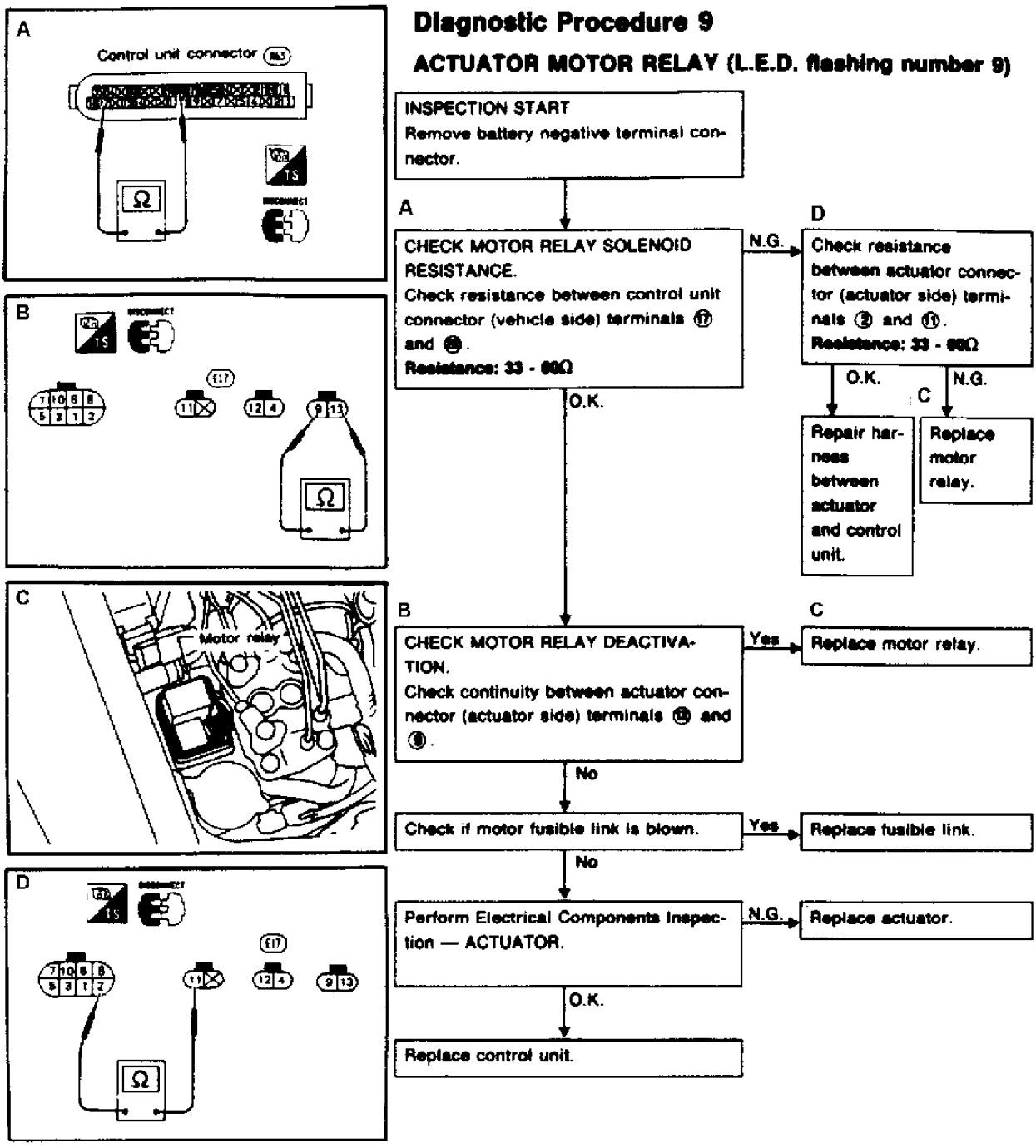

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Fig. 25: ABS Diagnostic Procedure No. 9 (G20)
Courtesy of Nissan Motor Co., U.S.A.

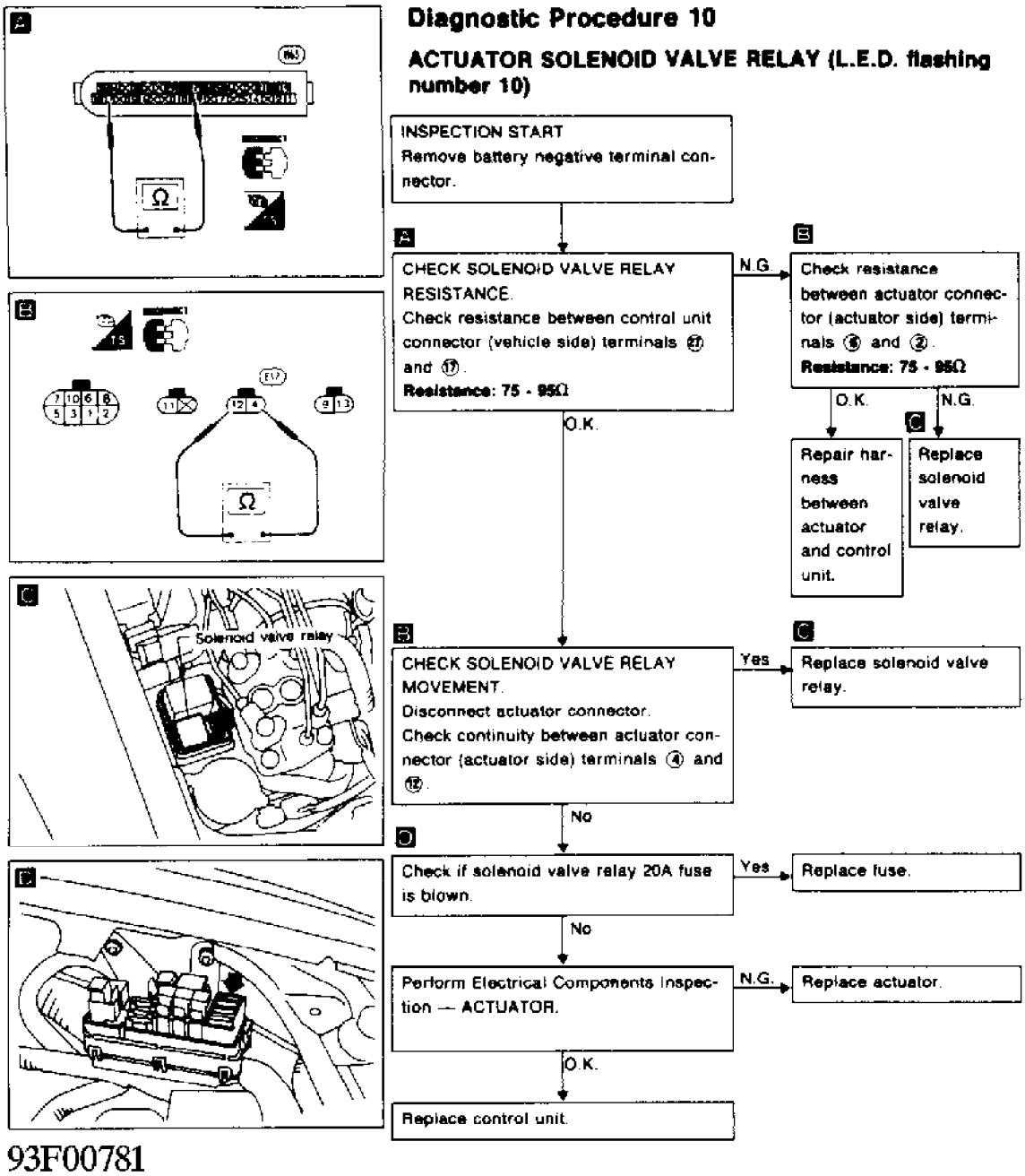


Fig. 26: ABS Diagnostic Procedure No. 10 (G20)
Courtesy of Nissan Motor Co., U.S.A.

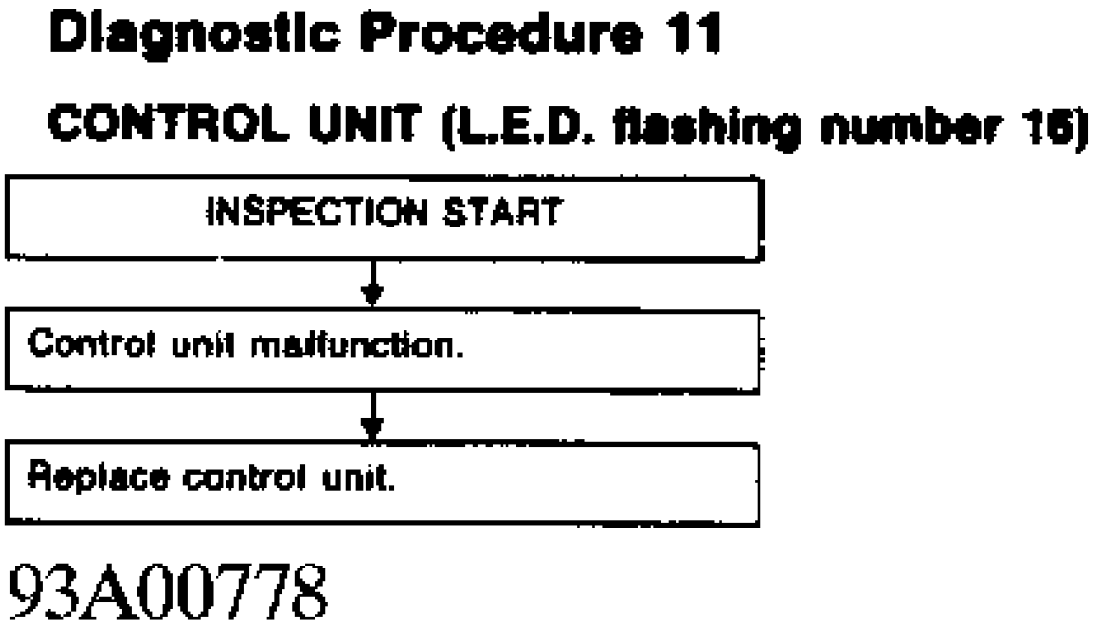


Fig. 27: ABS Diagnostic Procedure No. 11 (G20)
Courtesy of Nissan Motor Co., U.S.A.

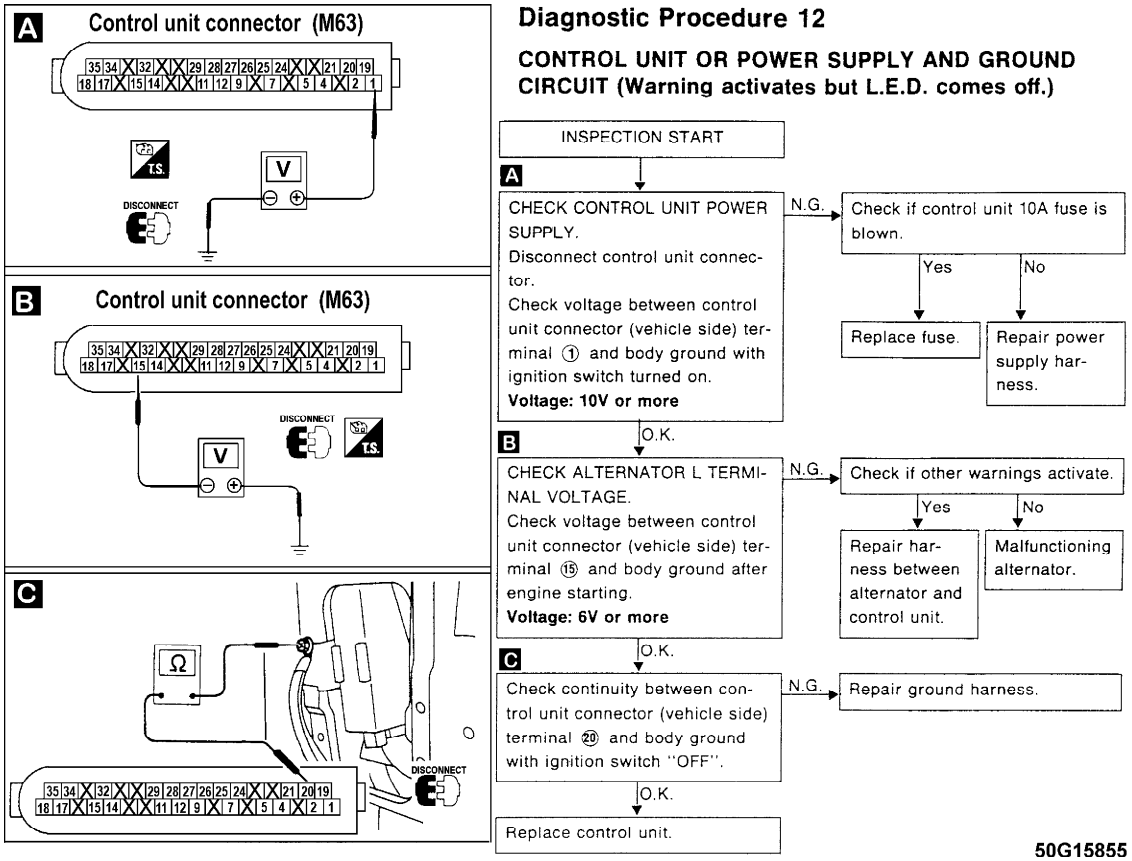
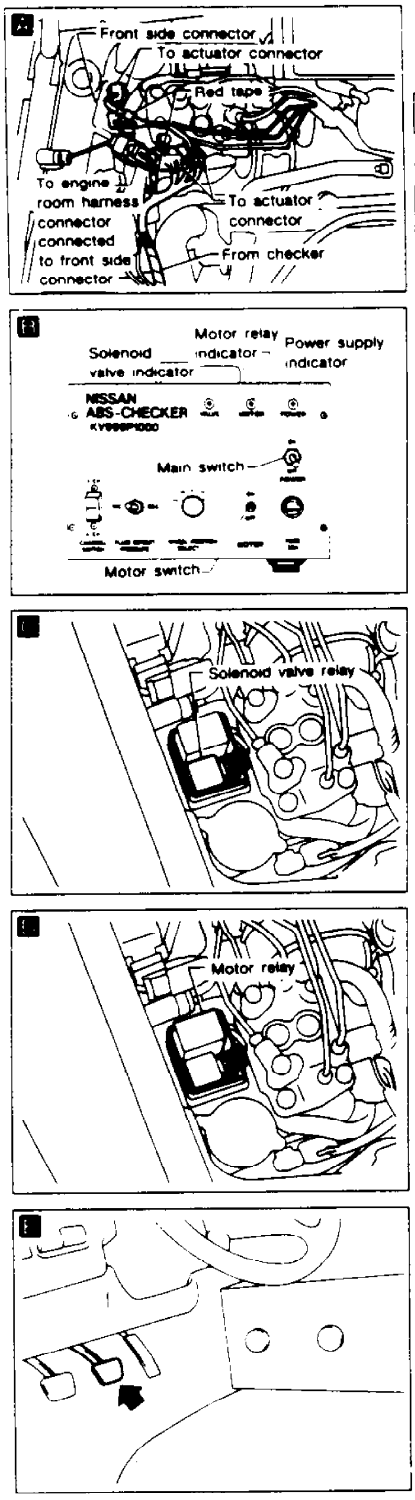


Fig. 28: ABS Diagnostic Procedure No. 12 (G20)
Courtesy of Nissan Motor Co., U.S.A.



Electrical Components Inspection

ACTUATOR (Not self-diagnostic item)

INSPECTION START

A

Connect ABS checker to actuator connector and vehicle harness with battery terminal connected and all checker switches turned off.
Use harness for 4 channel.
Set channel select switch to 4 channel.

B

Turn checker main switch on.
Check power supply indicator for coming on.

No → Replace battery with fully charged new one, if checker connection is correct.

Yes

C

Check checker valve relay indicator for coming on.

No → Replace solenoid valve relay if checker connection is correct.

Yes

A

Select one valve — FL, FR, RL or RR. (valves corresponding to each wheel position.)
Select brake circuit pressure decreasing position by switch then turn motor switch on.
Select pressure increasing position.

Yes

Repeat for each valve.

B

D

Check motor relay indicator for coming on while motor switch is turned on.

No → Replace motor relay if checker connection is correct.

Yes

Check motor for operational sound beside the actuator in a quiet place.

No → Replace actuator as assembly if Diagnostic Procedures 7 - 12 are already performed and checker connection is correct.

Yes

E

Bring checker in the vehicle and depress the brake pedal.
Perform step A again.

Ⓐ

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Fig. 29: ABS Electrical Components Inspection (G20) (1 Of 2)
Courtesy of Nissan Motor Co., U.S.A.

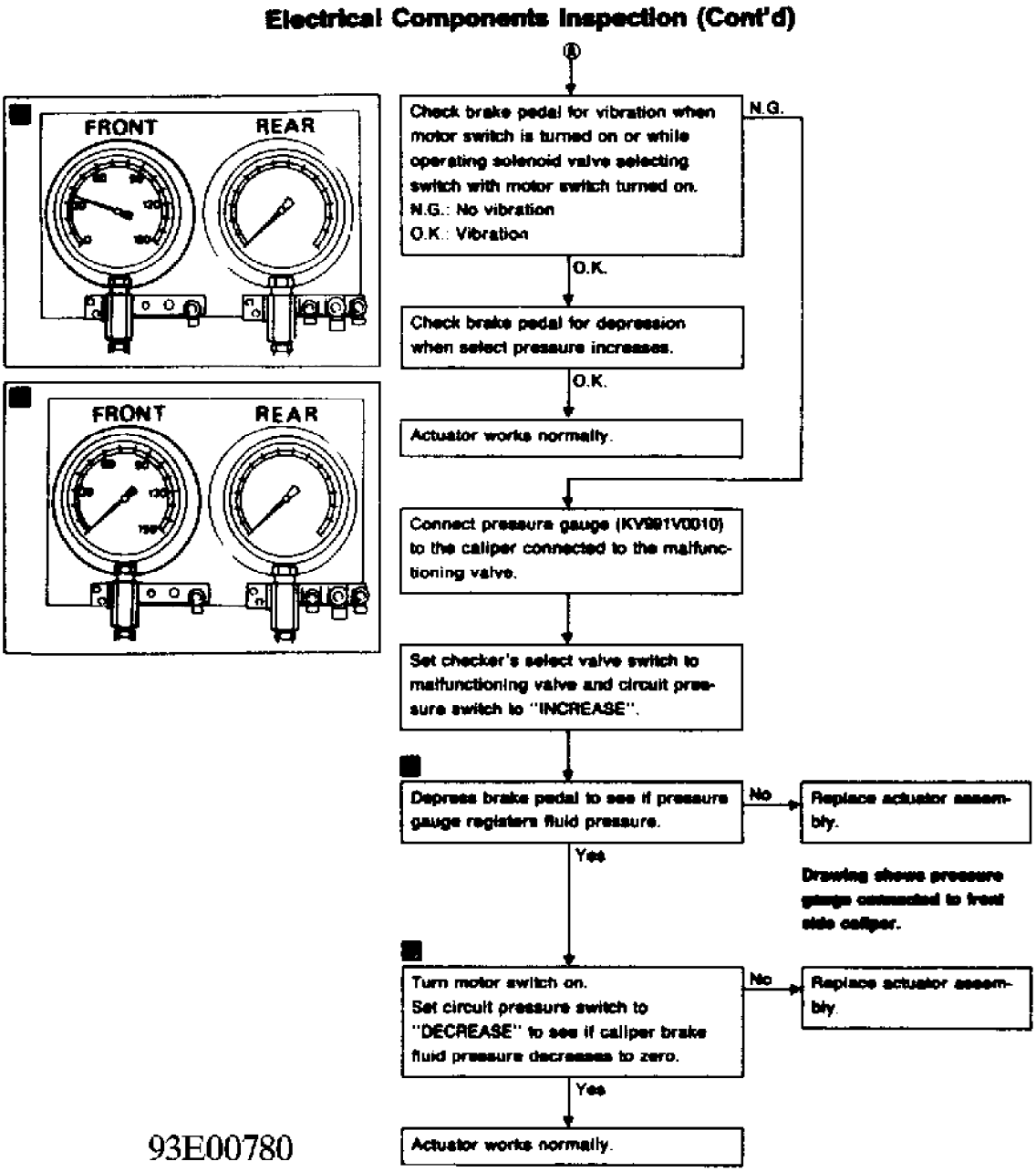


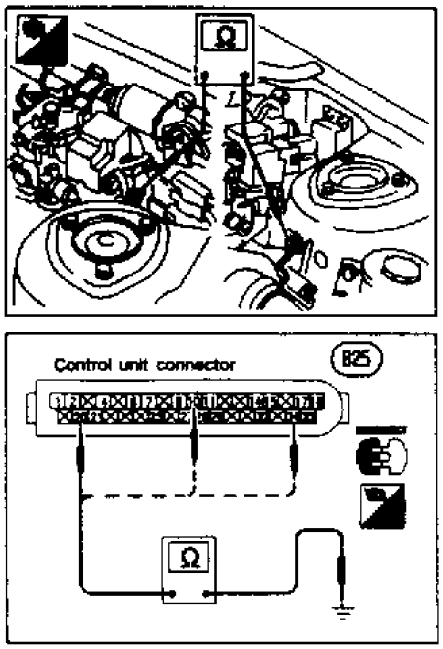
Fig. 30: ABS Electrical Components Inspection (G20) (2 Of 2)
Courtesy of Nissan Motor Co., U.S.A.

DIAGNOSTIC PROCEDURE CHARTS (M30)

For component locations and wiring schematics of Anti-Lock Brake System (ABS), see Figs. 4-6. For ground check, see Fig. 31. For

diagnostic procedures No. 1-11, see Figs. 32-42. For electronic components check, see Fig. 43.

NOTE: For additional wiring diagrams, see Figs. 57-59 at end of article and appropriate chassis wiring diagrams in WIRING DIAGRAMS.



Ground Circuit Check

ACTUATOR MOTOR GROUND

- Check resistance between both terminals.
  Resistance: 0Ω

CONTROL UNIT GROUND

- Check resistance between both terminals.
  Resistance: 0Ω

Fig. 31: ABS Ground Circuit Check (M30)
Courtesy of Nissan Motor Co., U.S.A.

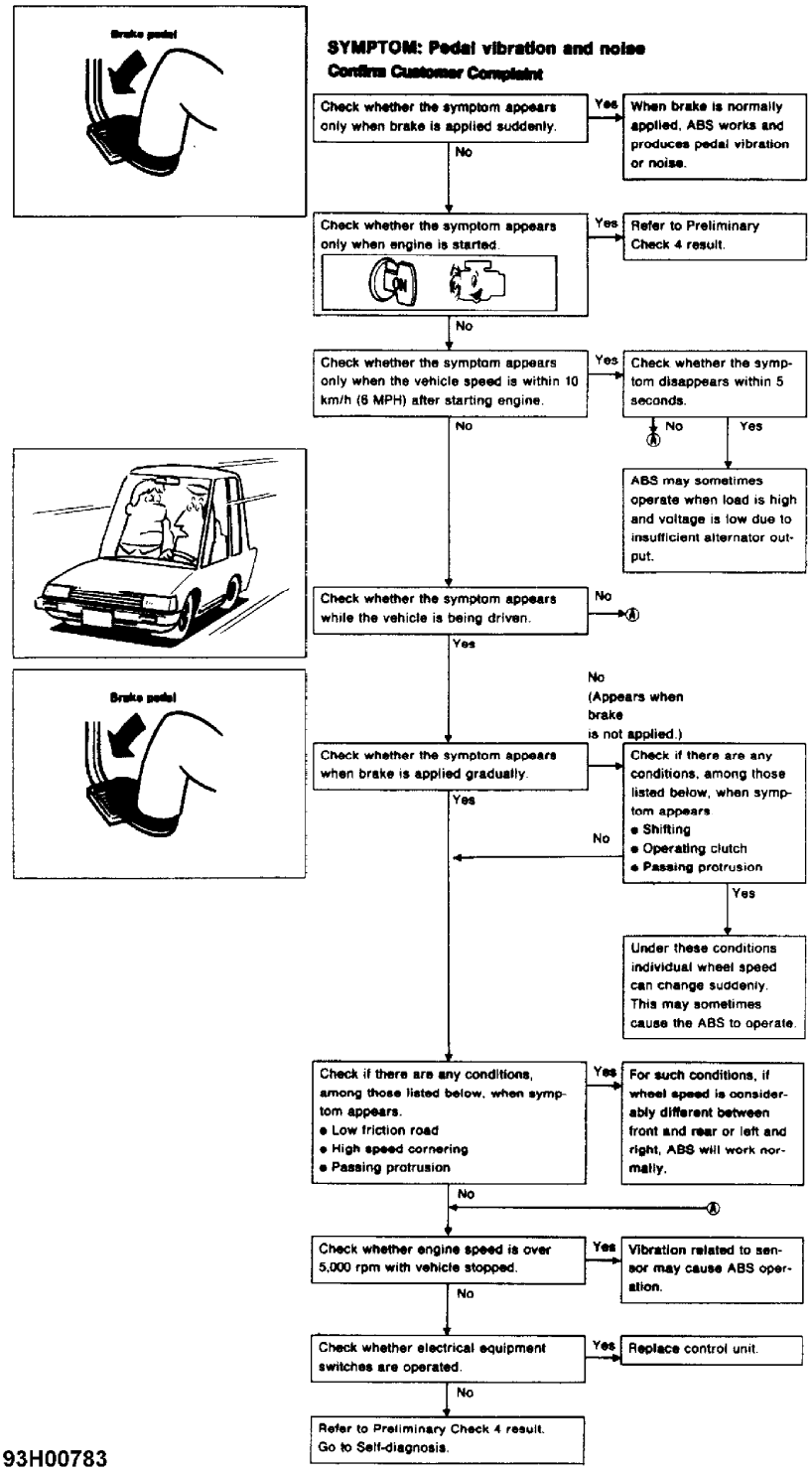


Fig. 32: ABS Diagnostic Procedure No. 1 (M30)
Courtesy of Nissan Motor Co., U.S.A.

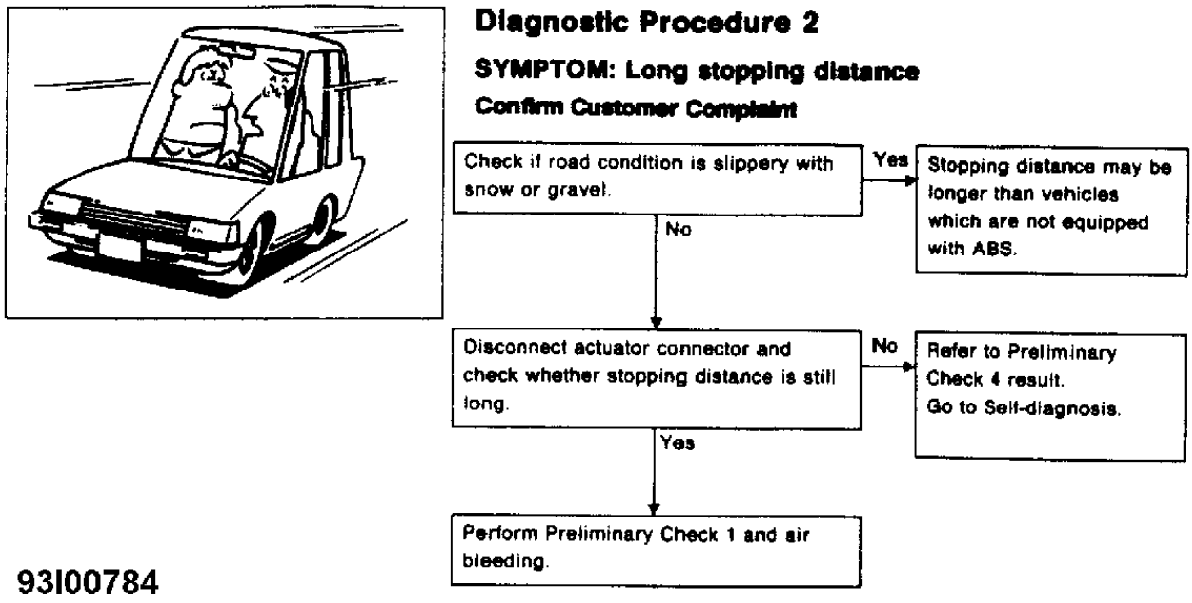


Fig. 33: ABS Diagnostic Procedure No. 2 (M30)
Courtesy of Nissan Motor Co., U.S.A.

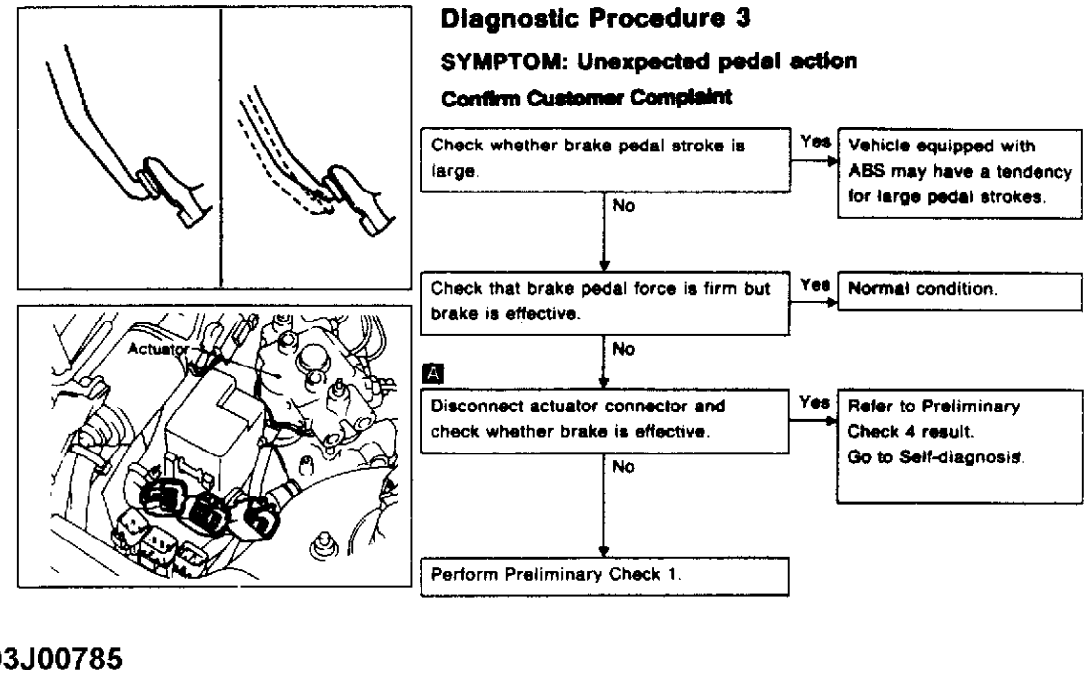


Fig. 34: ABS Diagnostic Procedure No. 3 (M30)
Courtesy of Nissan Motor Co., U.S.A.

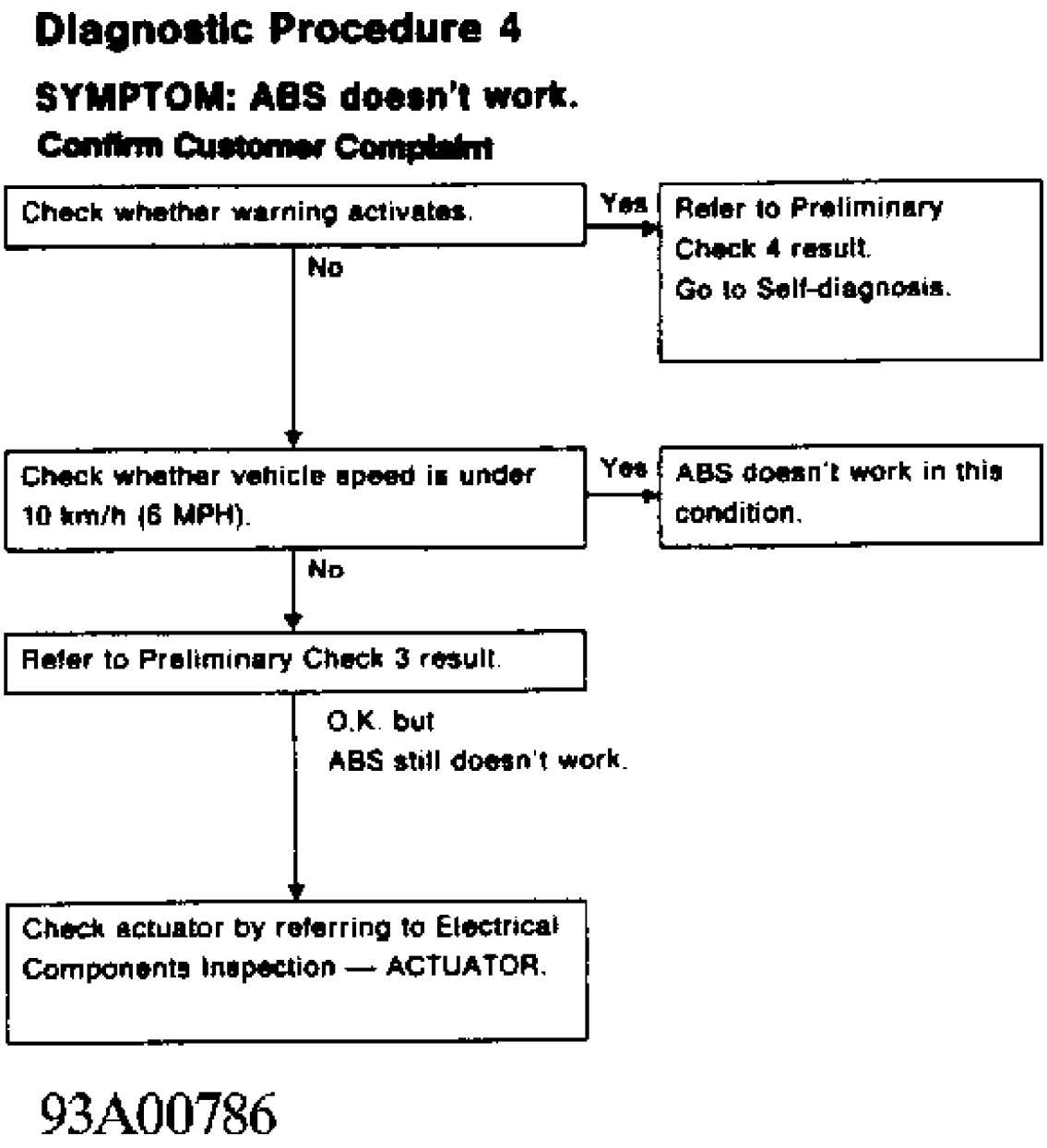


Fig. 35: ABS Diagnostic Procedure No. 4 (M30)
Courtesy of Nissan Motor Co., U.S.A.

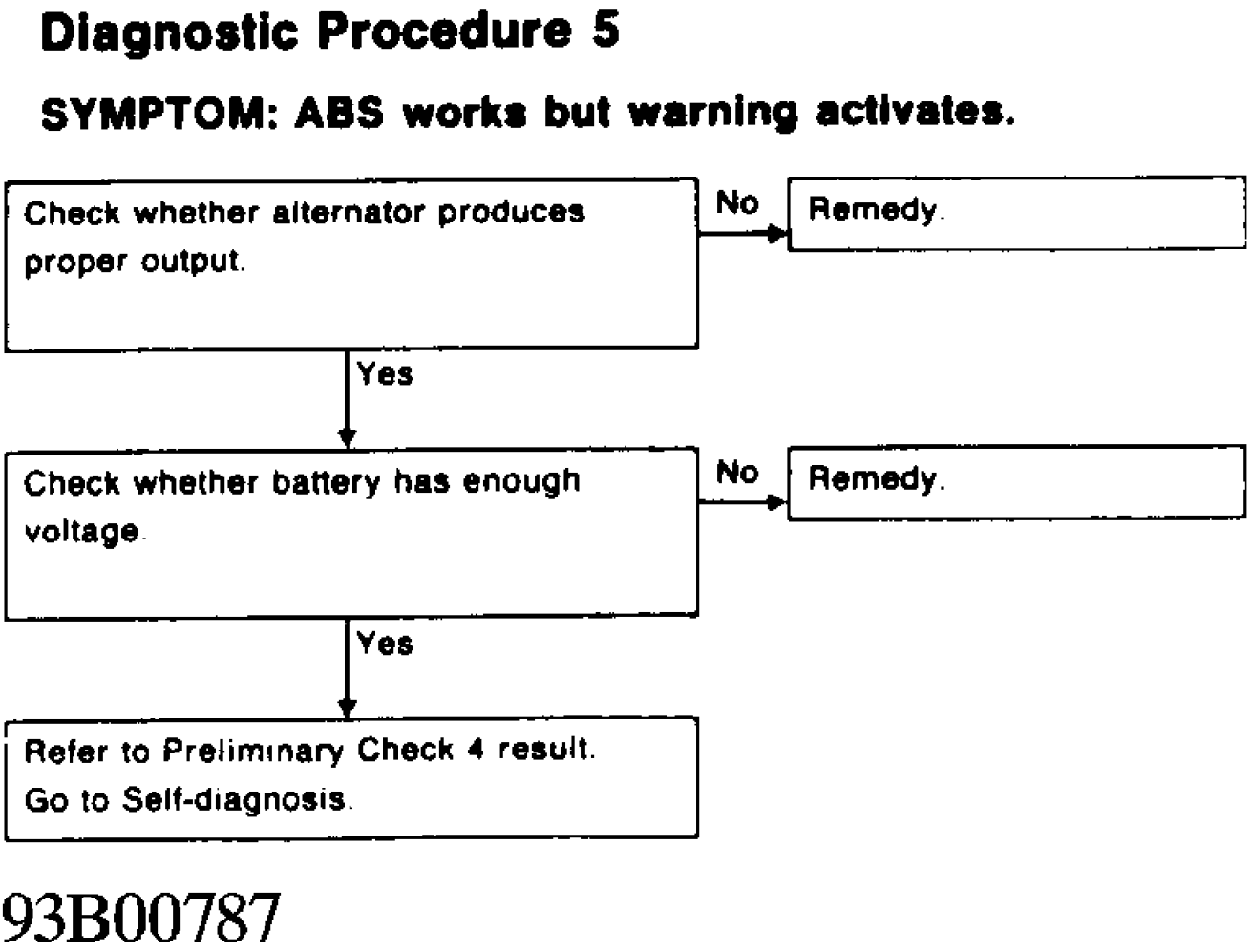


Fig. 36: ABS Diagnostic Procedure No. 5 (M30)
Courtesy of Nissan Motor Co., U.S.A.

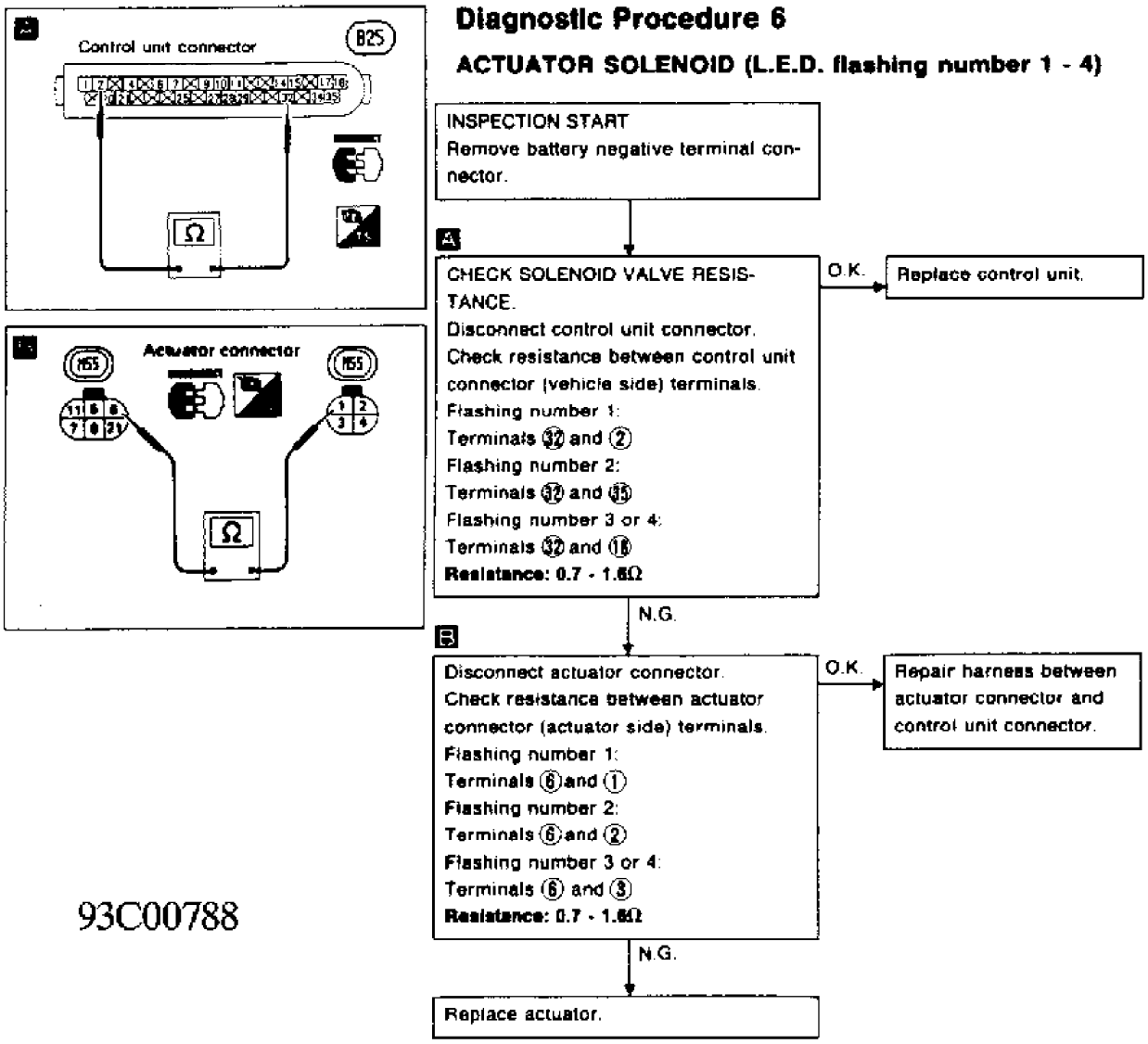


Fig. 37: ABS Diagnostic Procedure No. 6 (M30)
Courtesy of Nissan Motor Co., U.S.A.

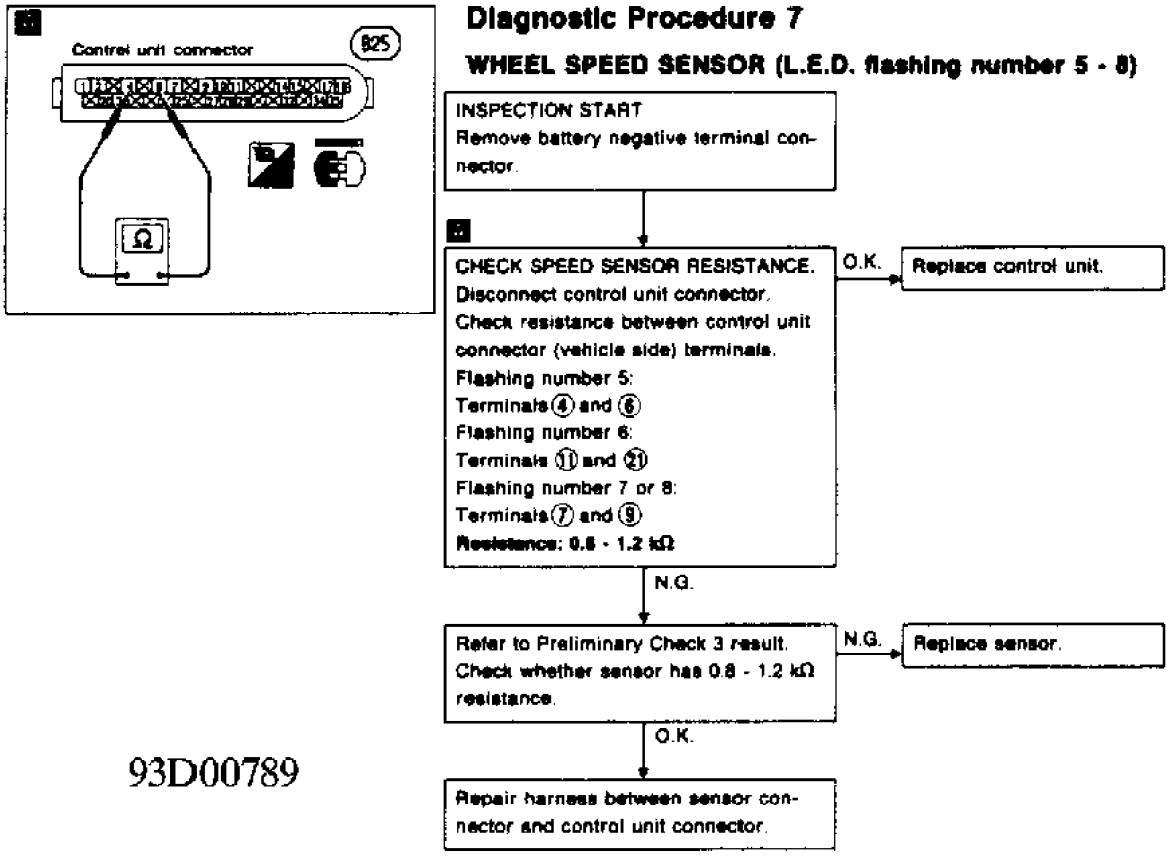


Fig. 38: ABS Diagnostic Procedure No. 7 (M30)
Courtesy of Nissan Motor Co., U.S.A.

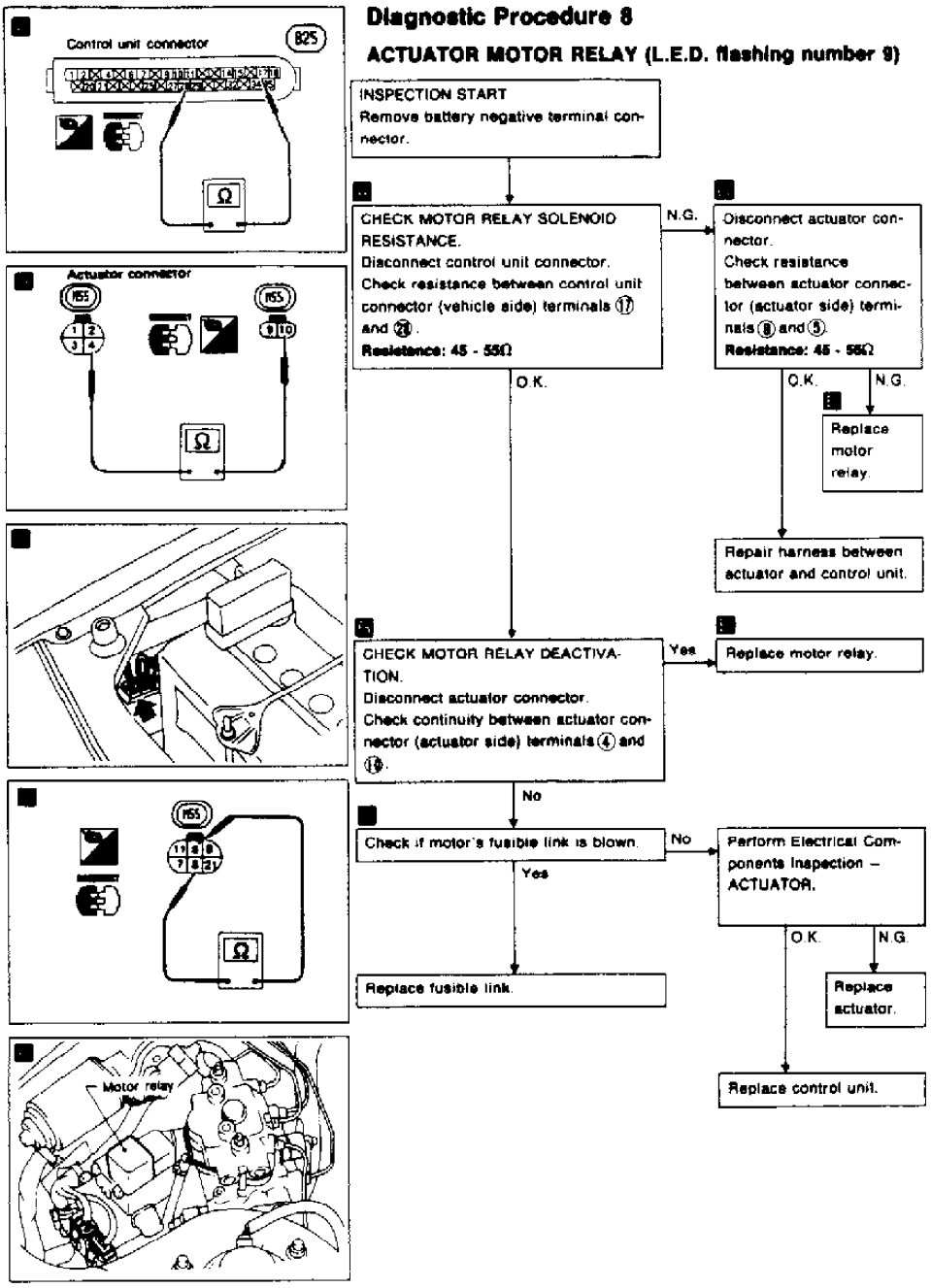


Fig. 39: ABS Diagnostic Procedure No. 8 (M30)
Courtesy of Nissan Motor Co., U.S.A.

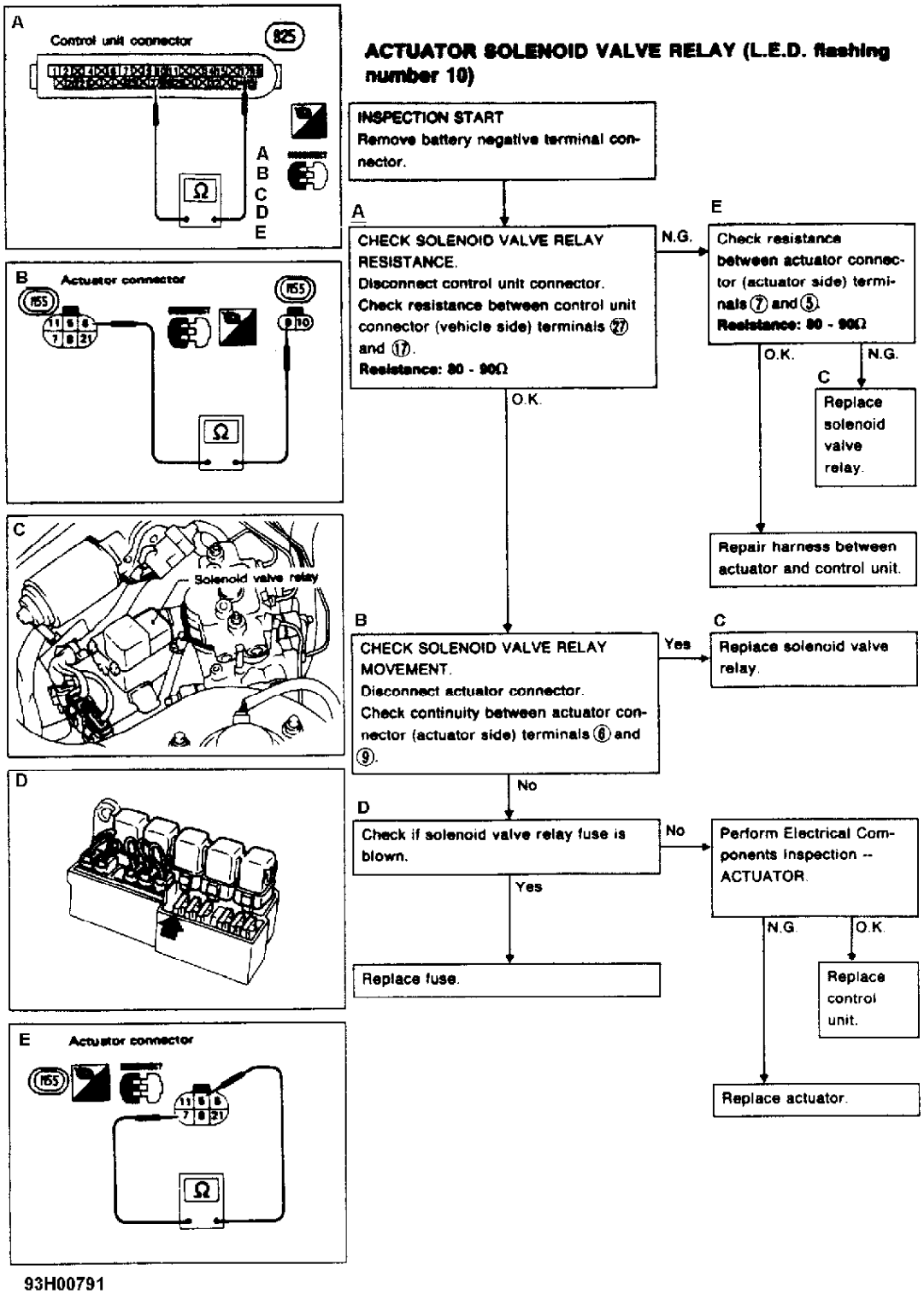


Fig. 40: ABS Diagnostic Procedure No. 9 (M30)
Courtesy of Nissan Motor Co., U.S.A.

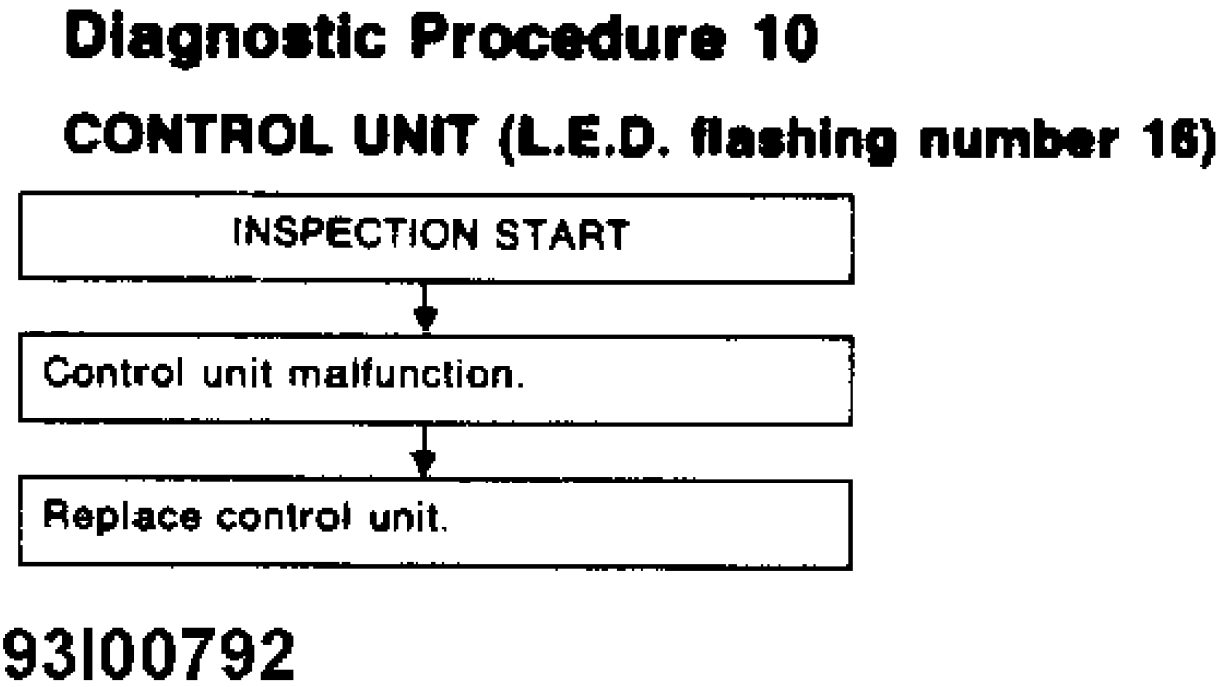


Fig. 41: ABS Diagnostic Procedure No. 10 (M30)
Courtesy of Nissan Motor Co., U.S.A.

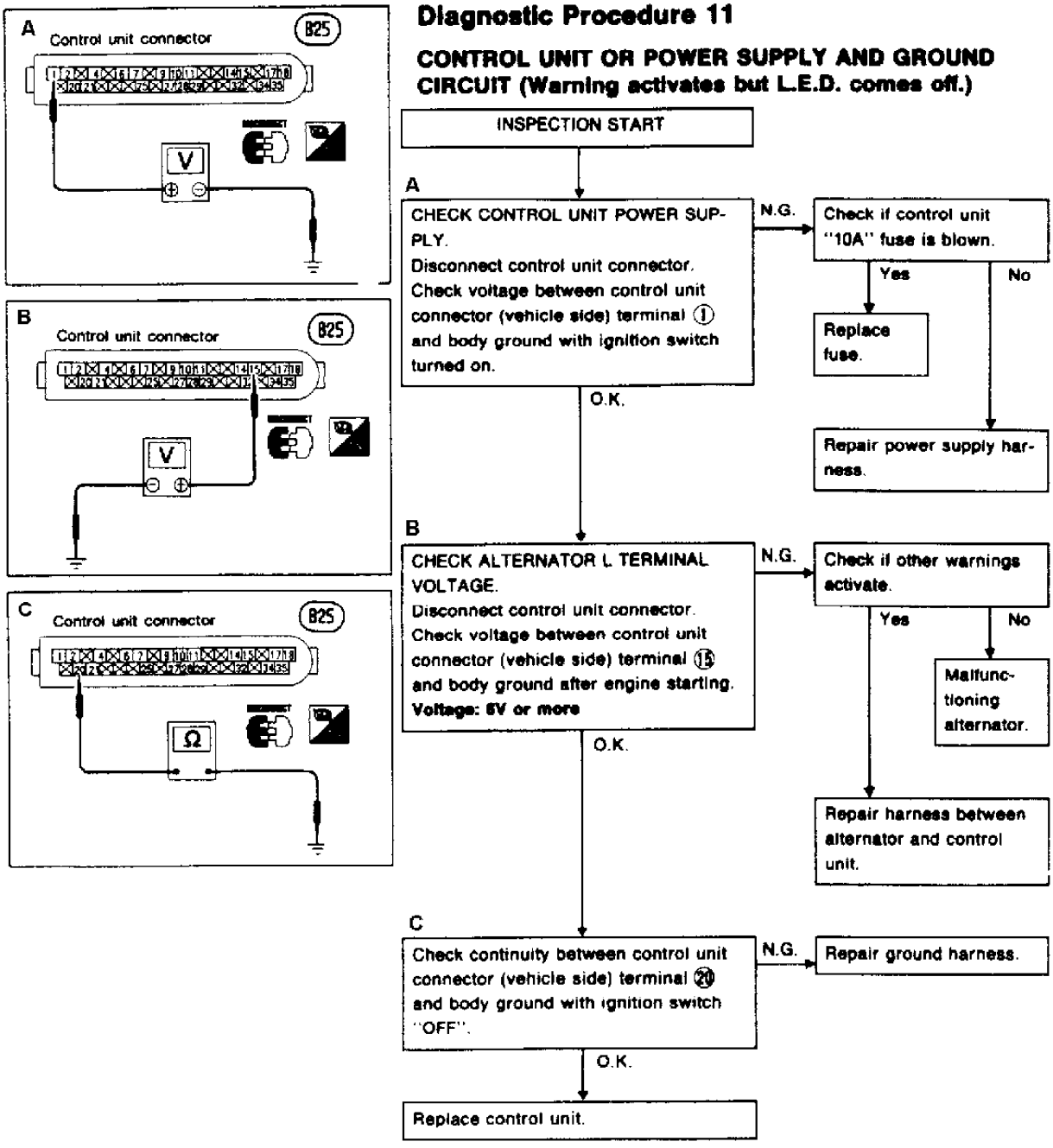


Fig. 42: ABS Diagnostic Procedure No. 11 (M30)
Courtesy of Nissan Motor Co., U.S.A.

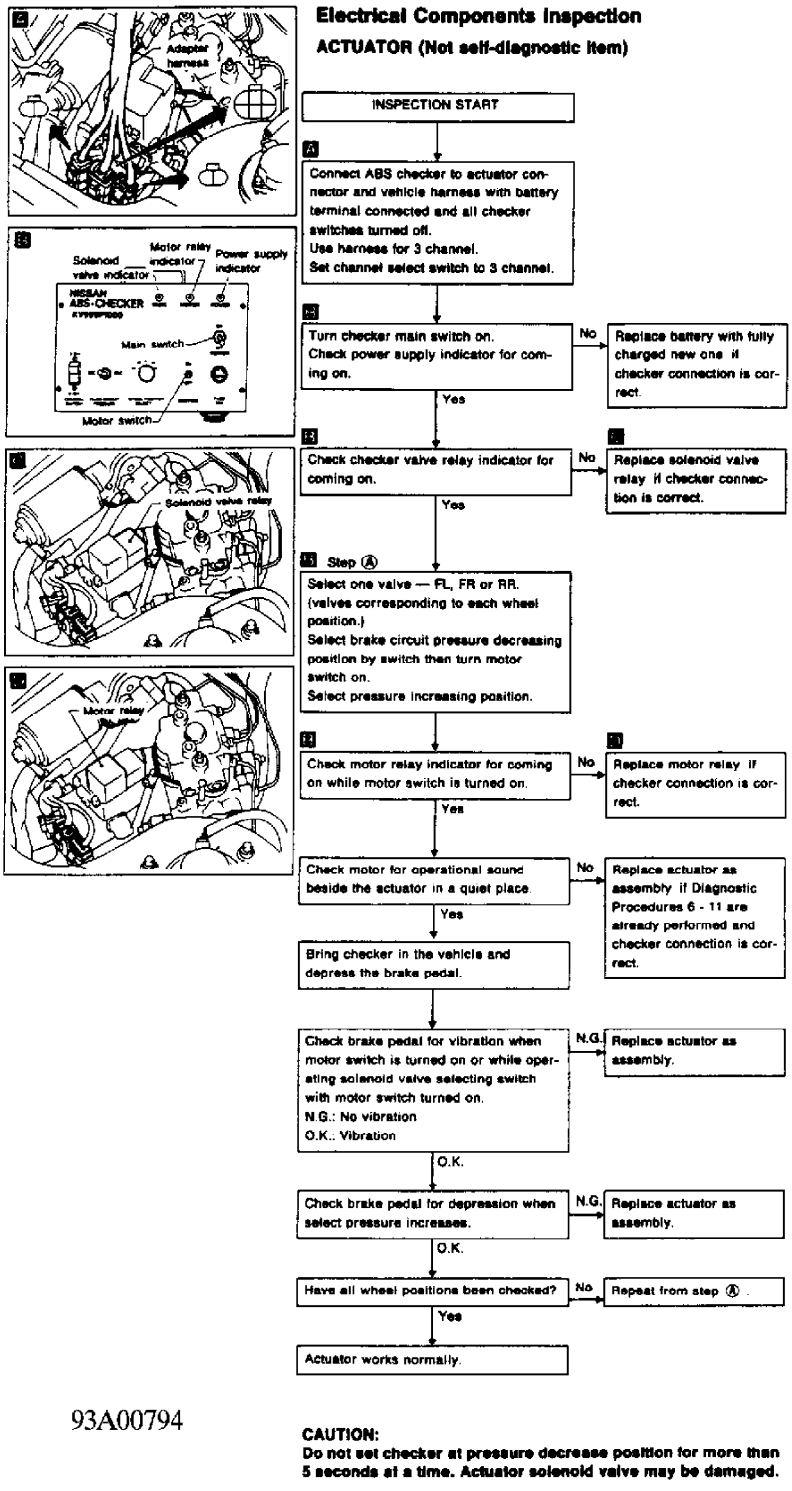
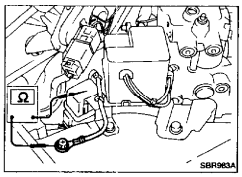


Fig. 43: ABS Electrical Components Inspection (M30)
Courtesy of Nissan Motor Co., U.S.A.

DIAGNOSTIC PROCEDURE CHARTS (Q45)

For component locations and wiring schematics of Anti-Lock Brake System (ABS), see Figs. 7-9. For ground check, see Fig. 44. For diagnostic procedures No. 1-11, see Figs. 45-55. For electronic components check, see Fig. 56.

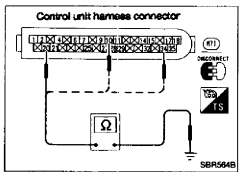
NOTE: For additional wiring diagrams, see Figs. 57-59 at end of article and appropriate chassis wiring diagrams in WIRING DIAGRAMS.



Ground Circuit Check

ACTUATOR MOTOR GROUND

- Check resistance between both terminals.
  Resistance: 0Ω



CONTROL UNIT GROUND

- Check resistance between each terminal and ground
  Resistance: 0Ω

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Fig. 44: ABS Ground Circuit Check (Q45)
Courtesy of Nissan Motor Co., U.S.A.

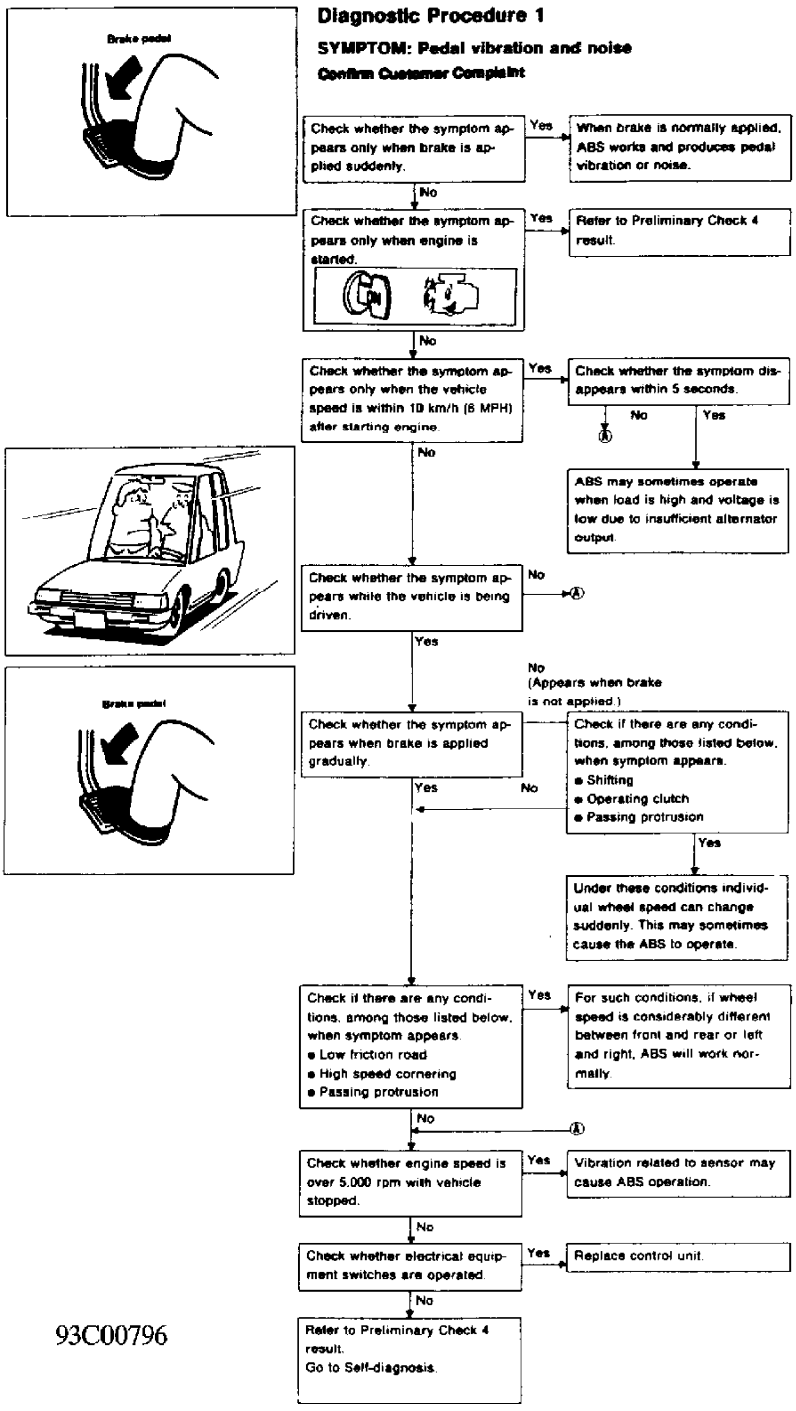

Fig. 45: ABS Diagnostic Procedure No. 1 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

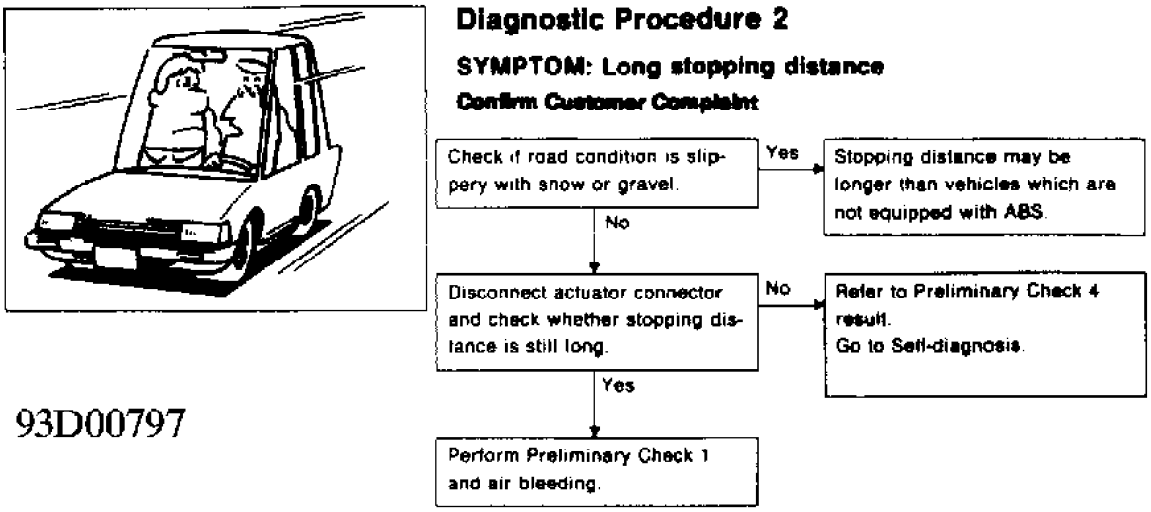

Fig. 46: ABS Diagnostic Procedure No. 2 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

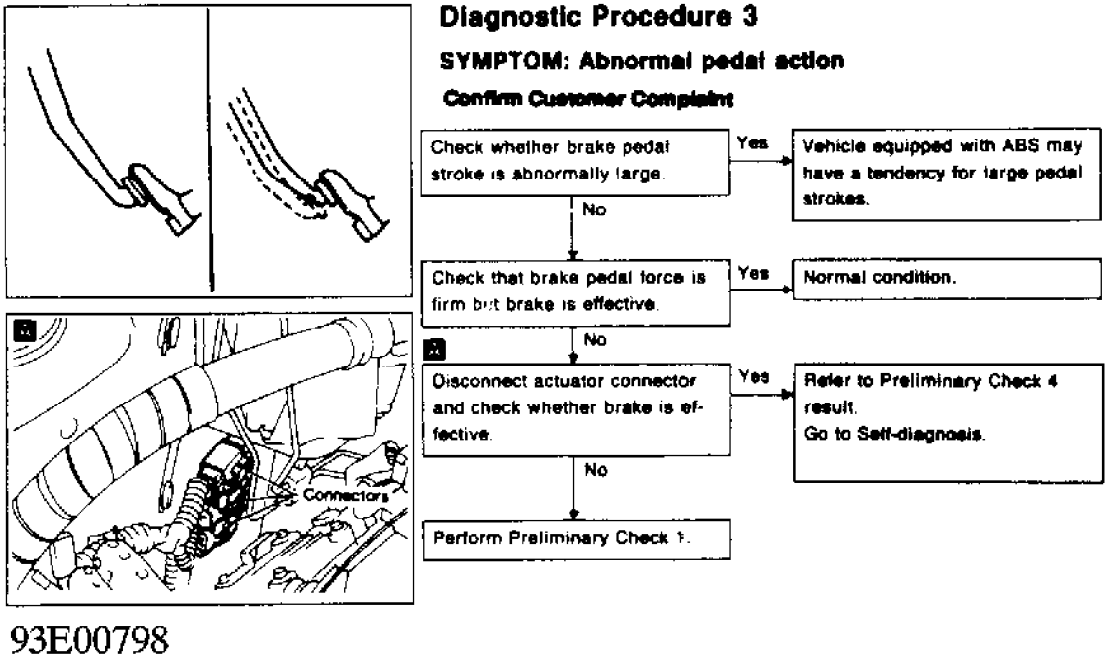

Fig. 47: ABS Diagnostic Procedure No. 3 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

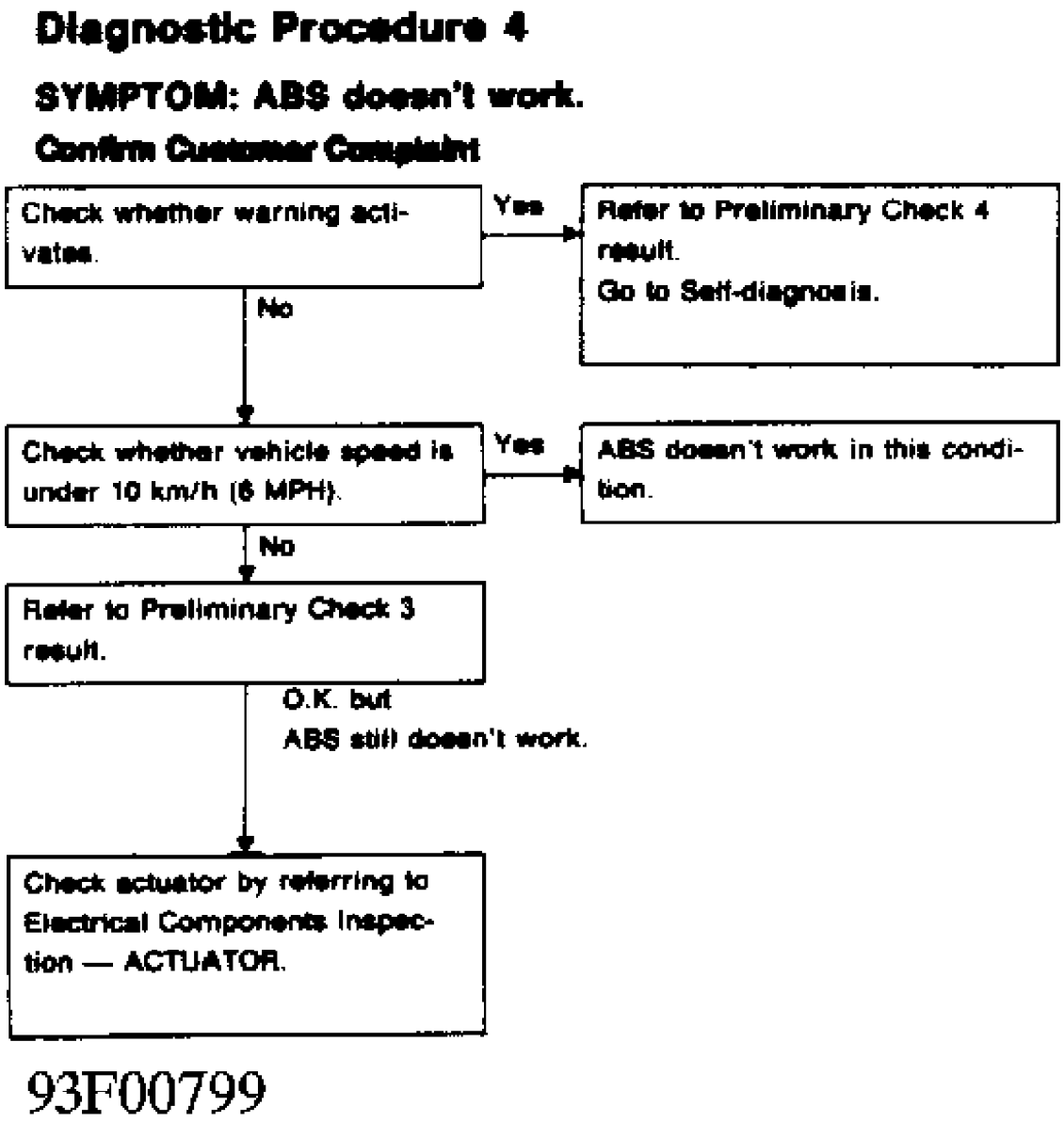

Fig. 48: ABS Diagnostic Procedure No. 4 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

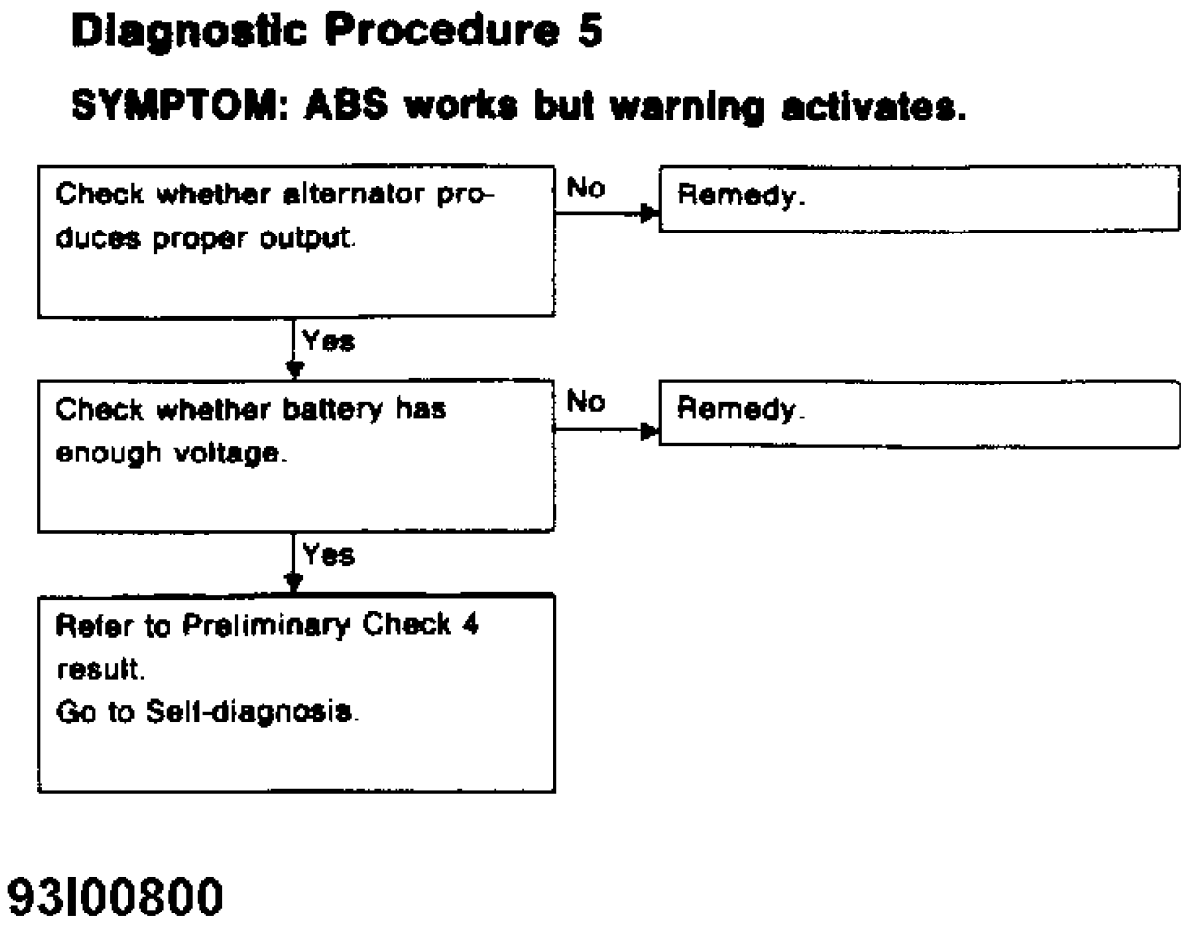

Fig. 49: ABS Diagnostic Procedure No. 5 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

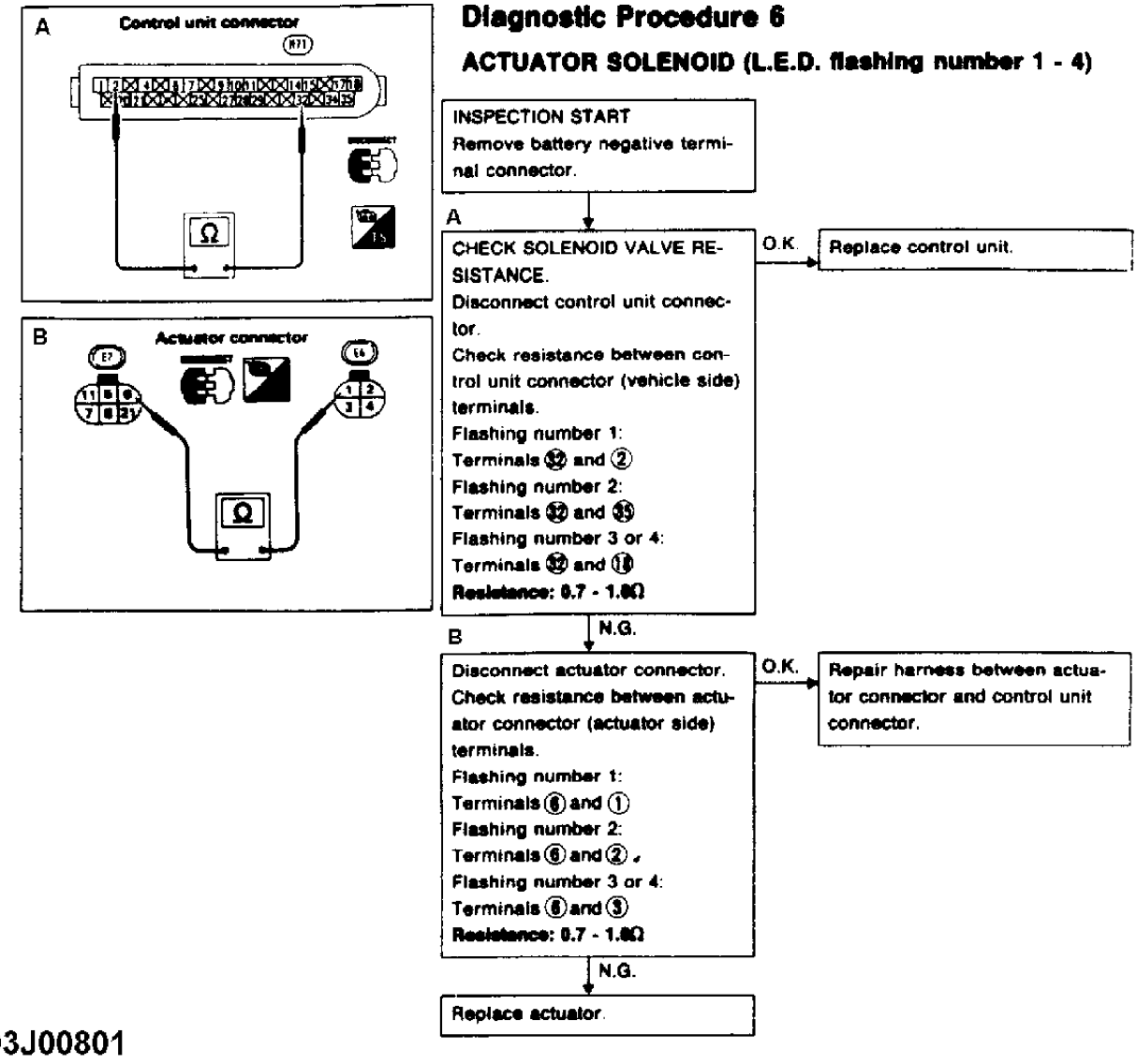

Fig. 50: ABS Diagnostic Procedure No. 6 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

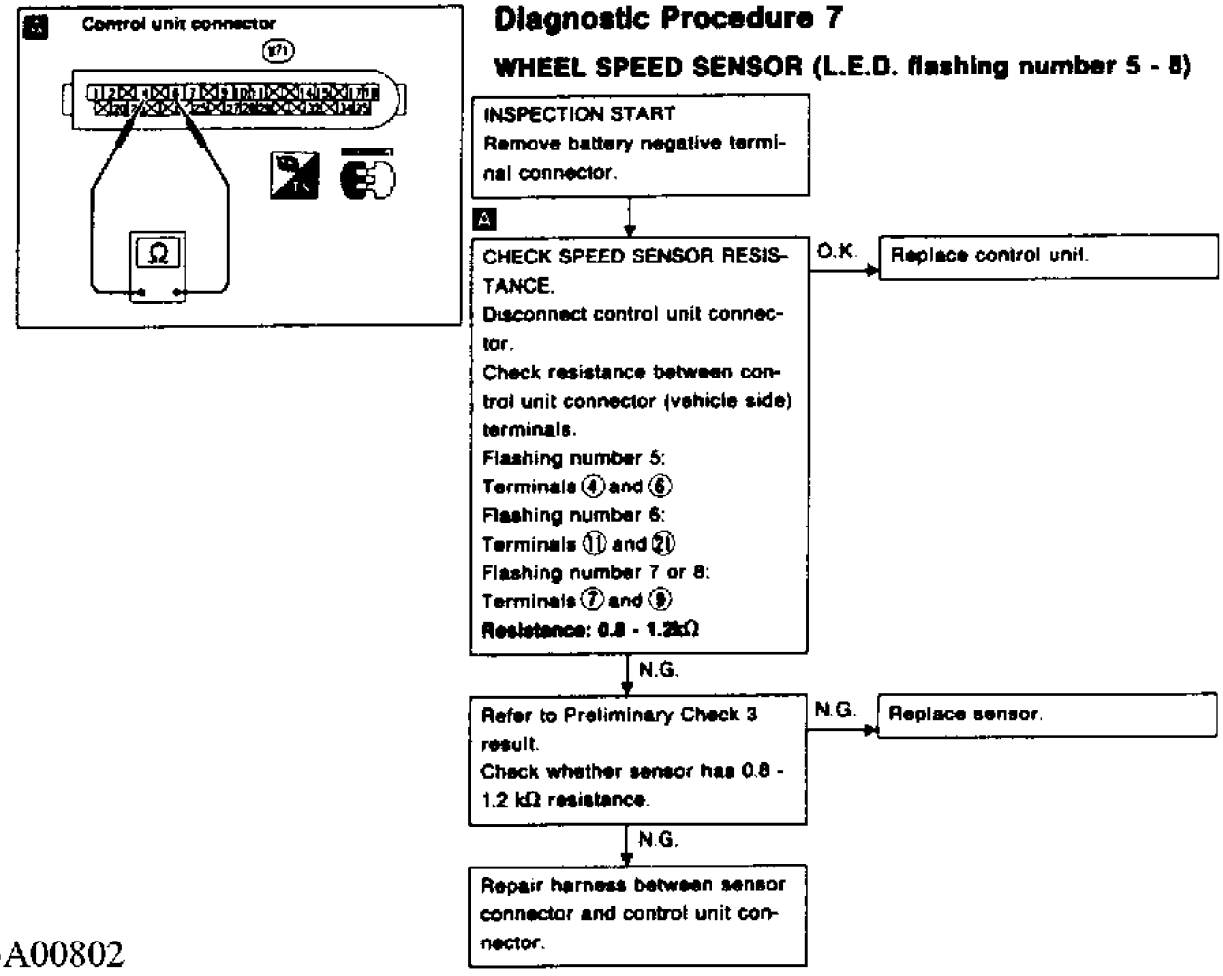

Fig. 51: ABS Diagnostic Procedure No. 7 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

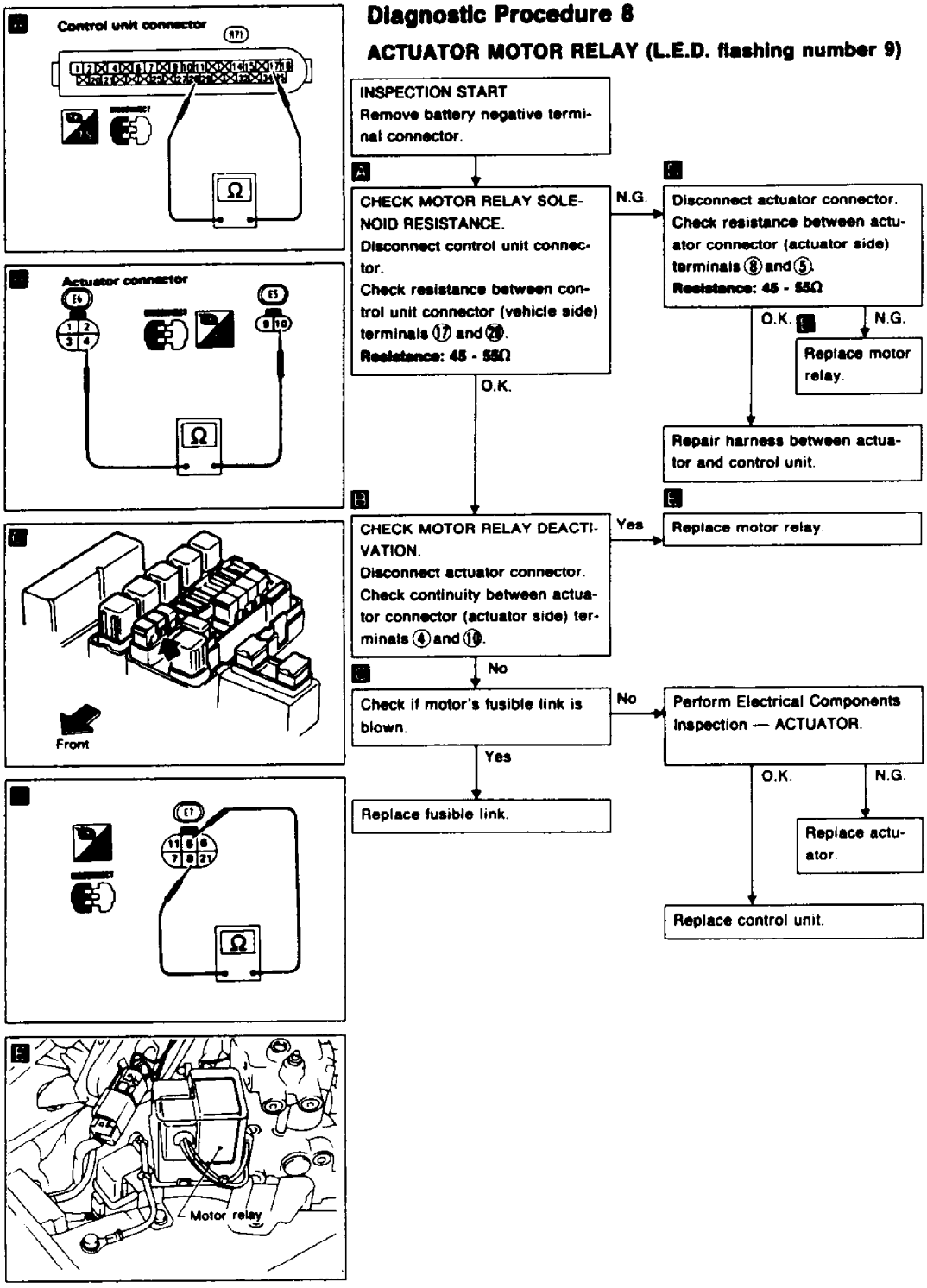

Fig. 52: ABS Diagnostic Procedure No. 8 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

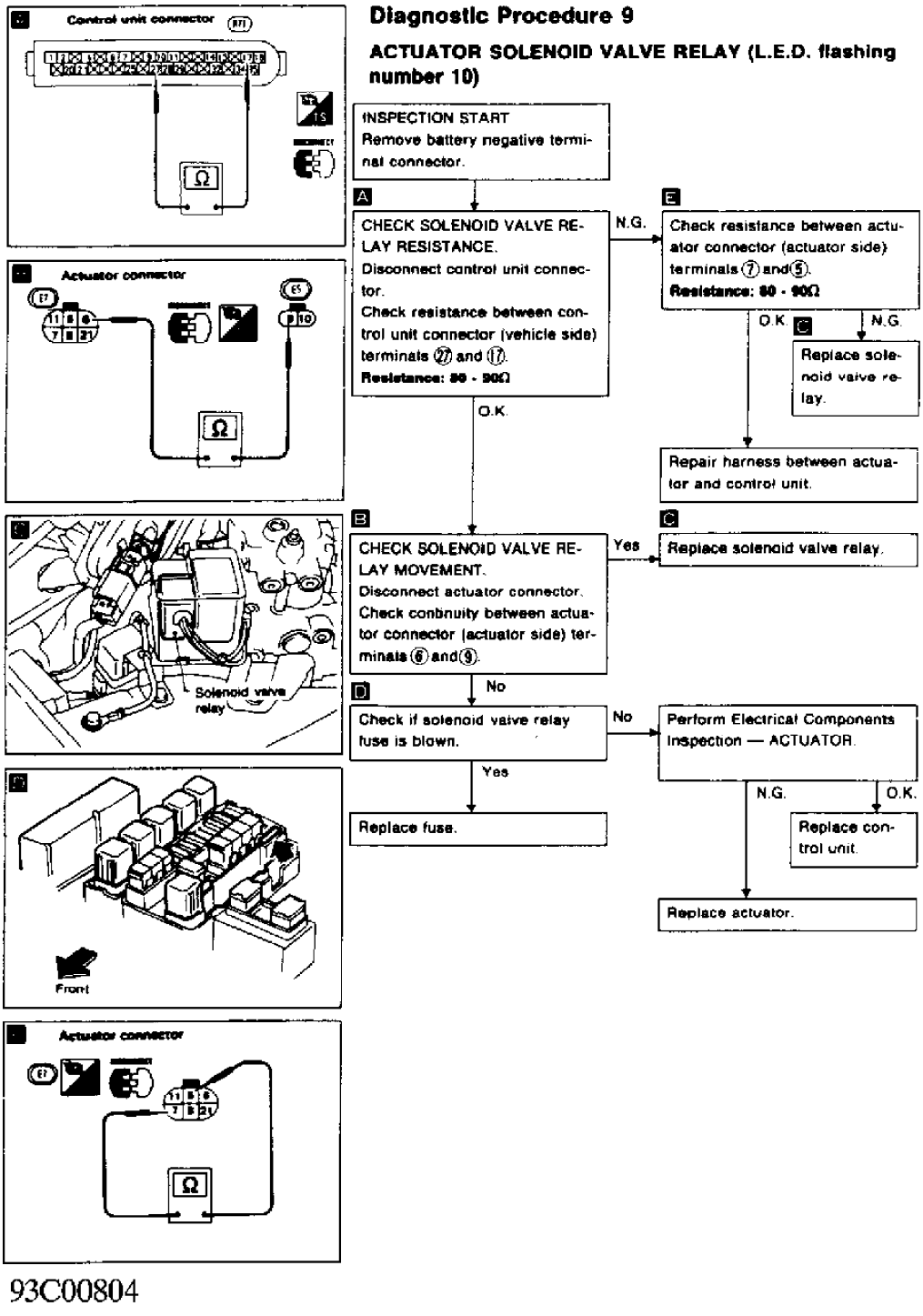

Fig. 53: ABS Diagnostic Procedure No. 9 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

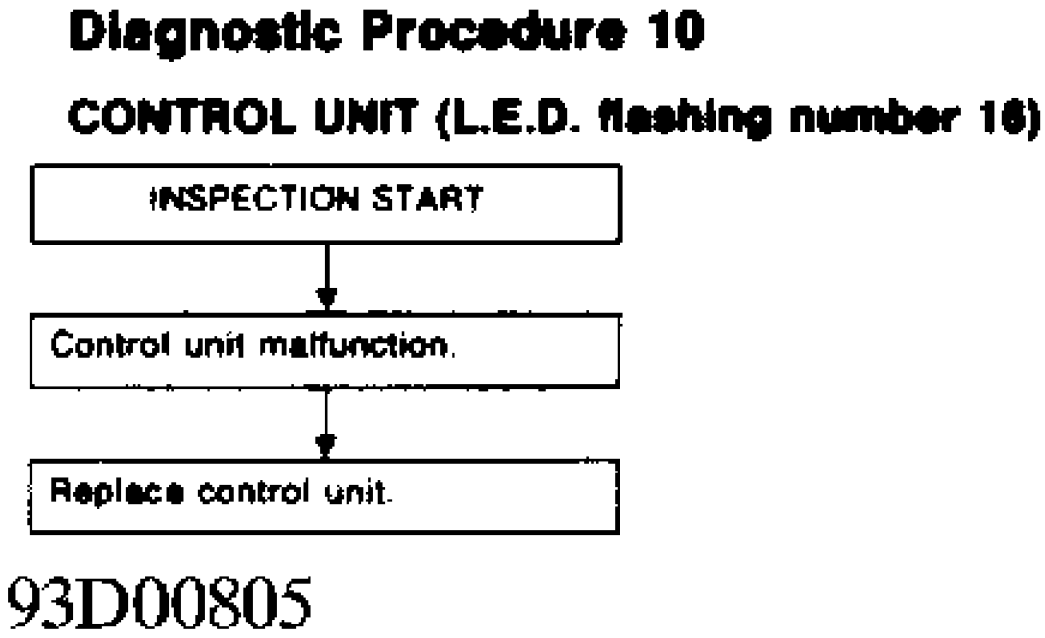

Fig. 54: ABS Diagnostic Procedure No. 10 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

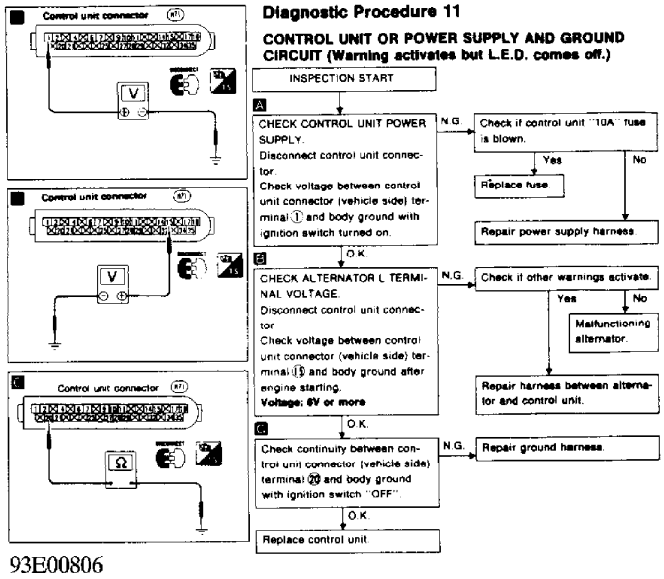

Fig. 55: ABS Diagnostic Procedure No. 11 (Q45)
Courtesy of Nissan Motor Co., U.S.A.

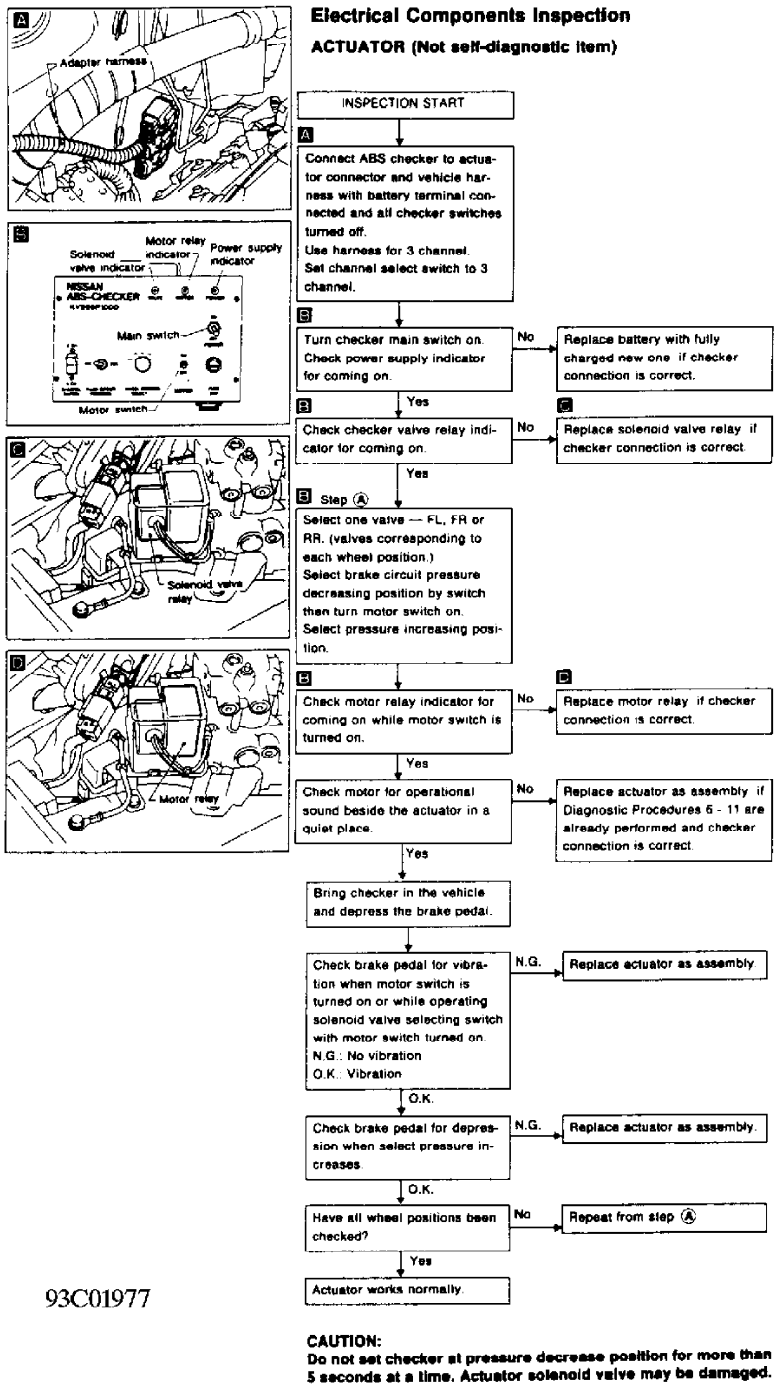

Fig. 56: ABS Electrical Components Inspection (Q45)
Courtesy of Nissan Motor Co., U.S.A.

WIRING DIAGRAMS

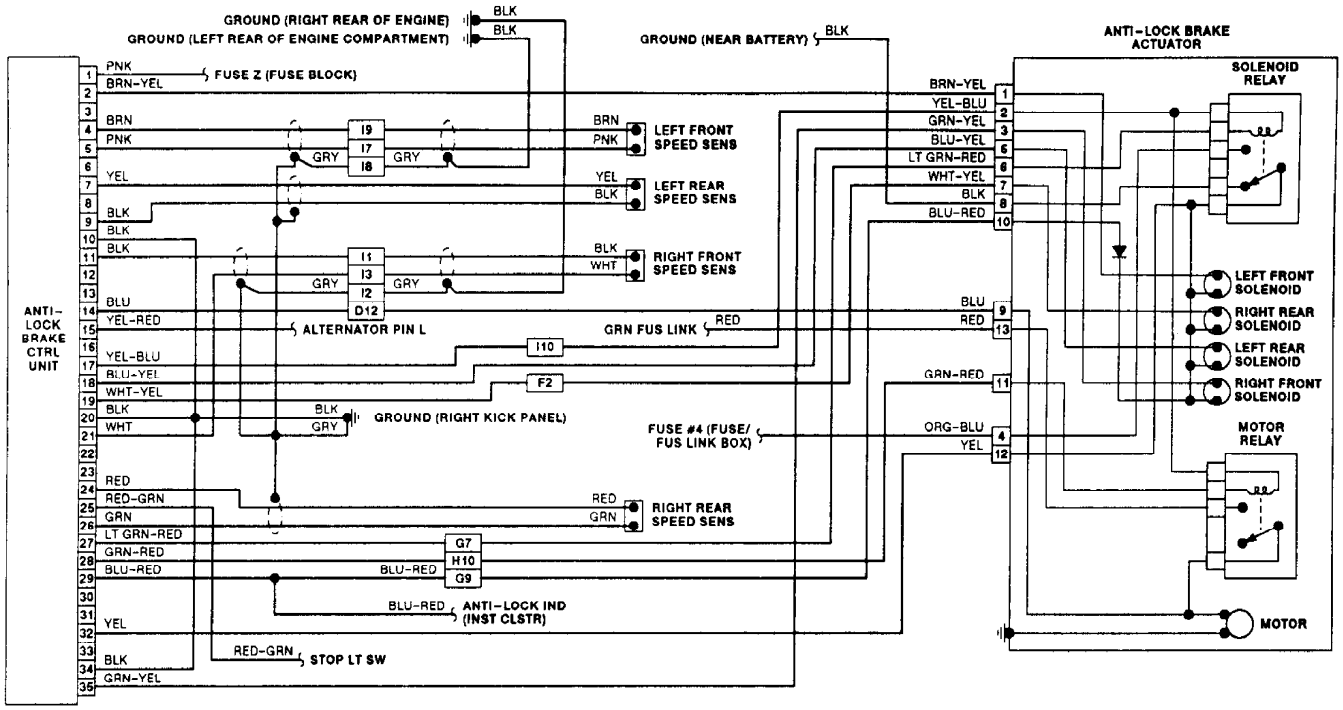

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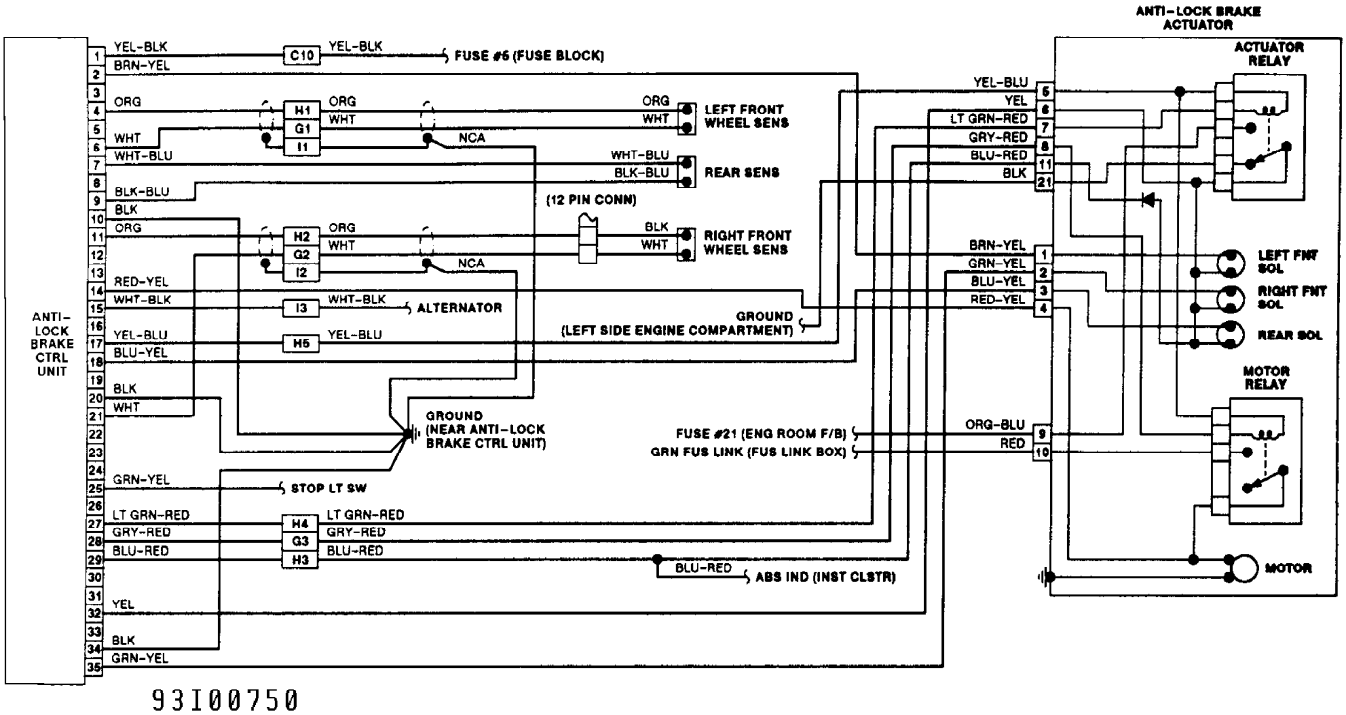
Fig. 57: ABS Wiring Diagram (G20)



93I00750

Fig. 58: ABS Wiring Diagram (M30)

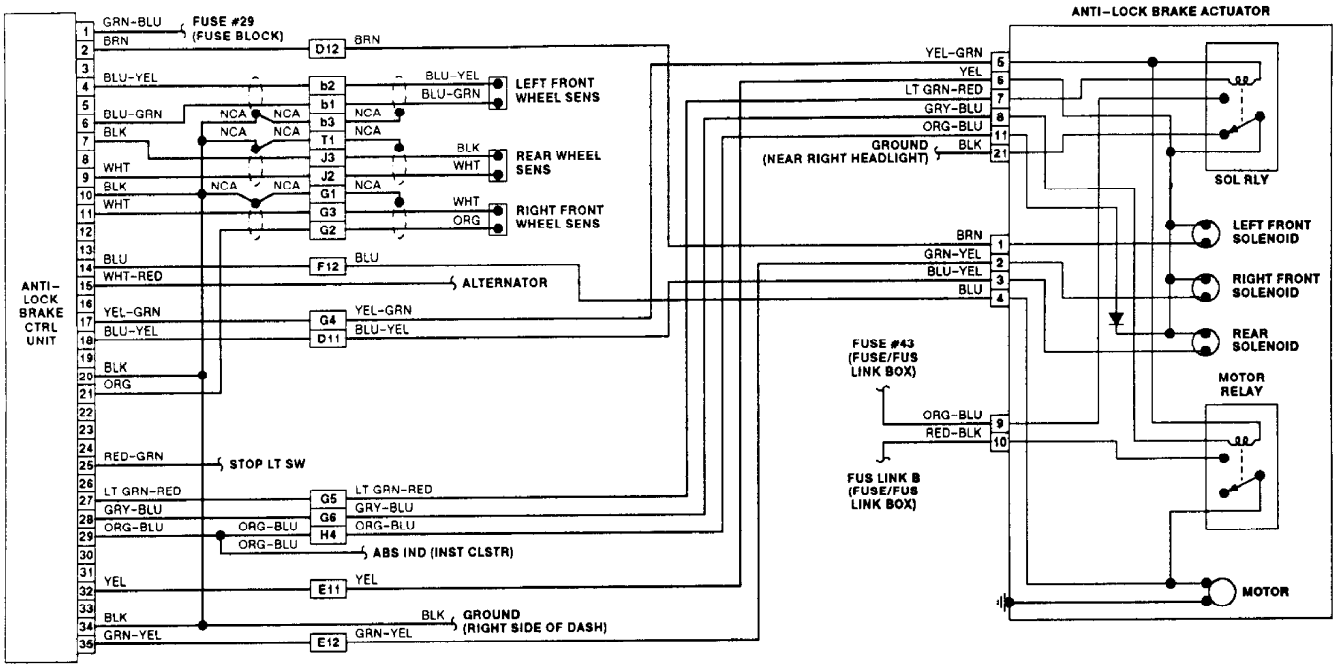


Fig. 59: ABS Wiring Diagram (Q45)

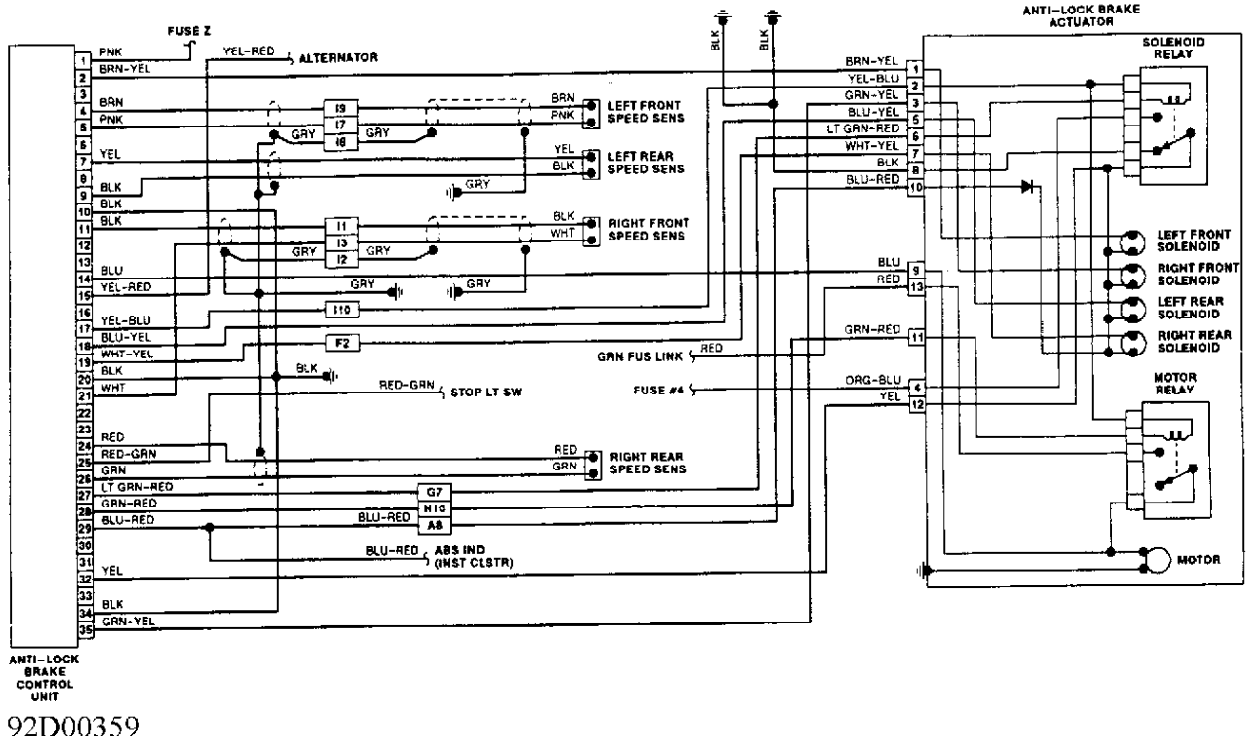


Fig. 60: ABS Wiring Diagram (G20)

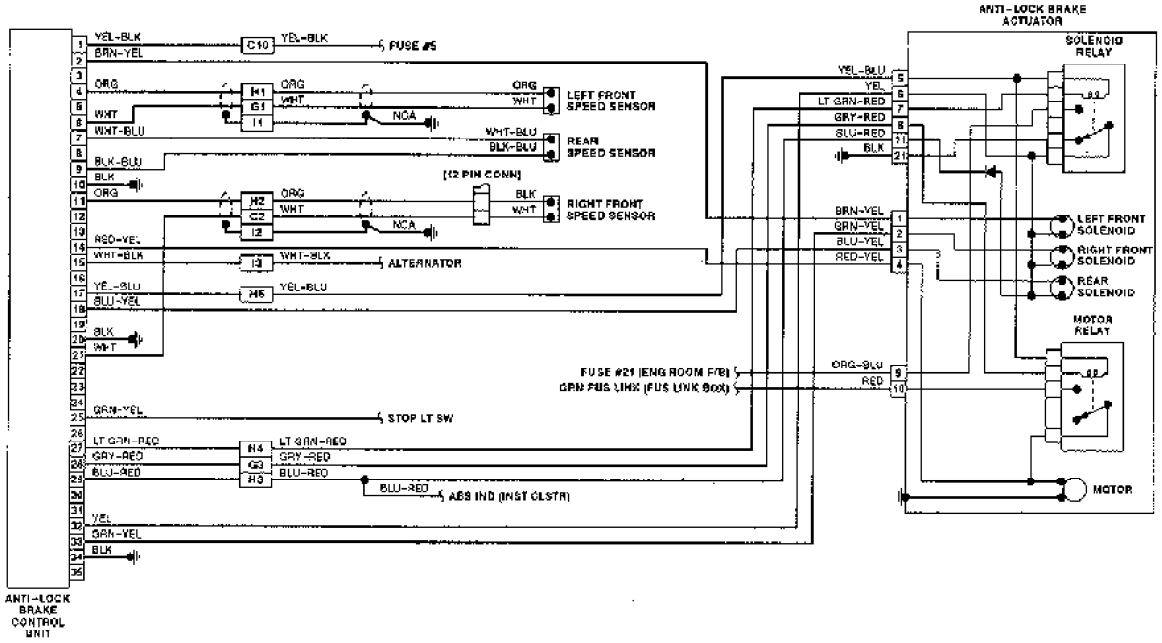


Fig. 61: ABS Wiring Diagram (M30)

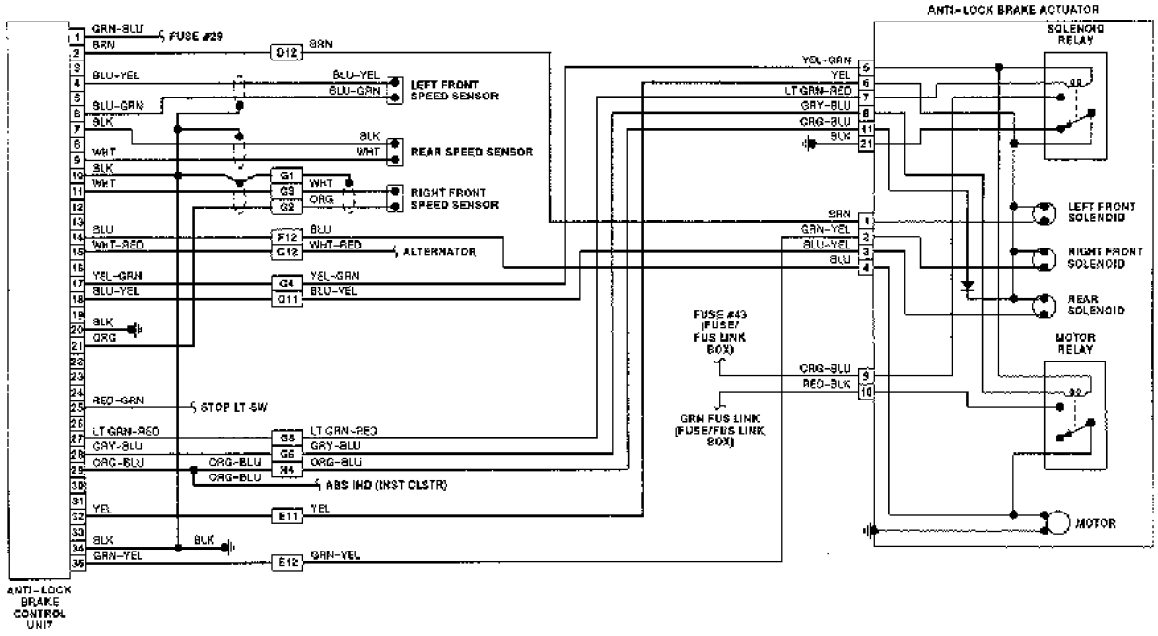


Fig. 62: ABS Wiring Diagram (Q45)