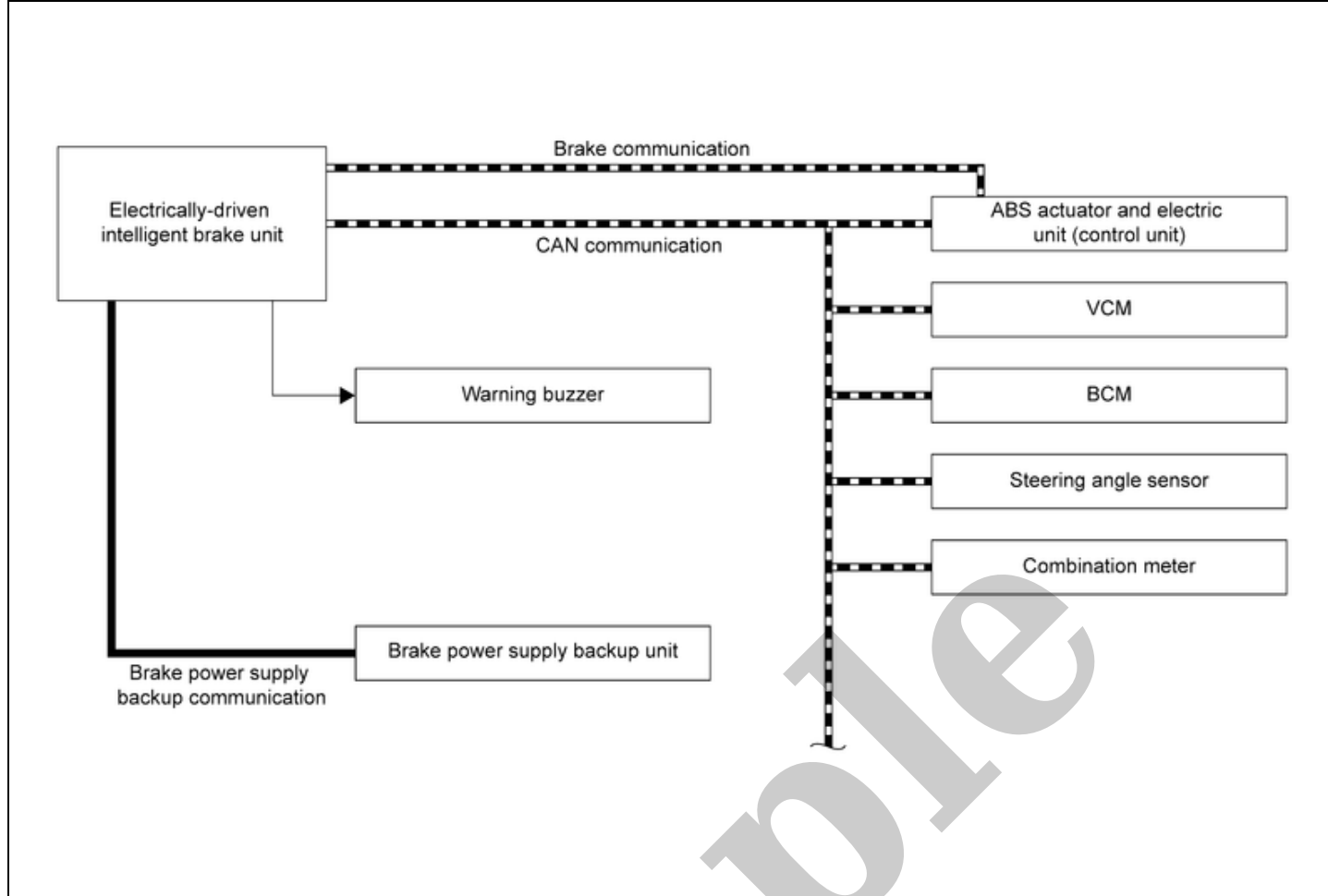


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## 1985 NISSAN 300 ZX OEM Service and Repair Workshop Manual

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SIEMD-7262689-01-000382476

## INPUT SIGNAL AND OUTPUT SIGNAL

Major signal transmission between each unit via communication lines is shown in the following table.

Component	Function
Electrically-driven intelligent brake unit	Refer to <a href="#">Component Description</a> .
Warning buzzer	Refer to <a href="#">Component Description</a> .
Brake power supply backup unit	Refer to <a href="#">Component Description</a> .
Steering angle sensor	Mainly transmits the following signal to electrically-driven intelligent brake unit via CAN communication. <ul style="list-style-type: none"> <li>Steering angle sensor signal</li> </ul>
Combination meter	Mainly receives the following signals from ABS actuator electric unit (control unit) via electrically-driven intelligent brake unit via CAN communication. <ul style="list-style-type: none"> <li>Brake warning lamp signal</li> <li>Brake system warning lamp signal</li> </ul>
ABS actuator and electric unit (control unit)	Mainly transmits the following signals to electrically-driven intelligent brake unit via CAN communication. <ul style="list-style-type: none"> <li>ABS actuator and electric unit (control unit) control signal</li> <li>Vehicle speed signal</li> <li>Front LH wheel speed signal</li> <li>Rear LH wheel speed signal</li> </ul>

Component	Function
	<ul style="list-style-type: none"> <li>• Front RH wheel speed signal</li> <li>• Rear RH wheel speed signal</li> <li>• Yaw rate signal</li> <li>• Side G sensor signal</li> <li>• VDC malfunction signal</li> <li>• VDC OFF signal</li> <li>• Brake fluid pressure signal</li> </ul> <p>Mainly receives the following signals from electrically-driven intelligent brake unit via CAN communication.</p> <ul style="list-style-type: none"> <li>• Electrically-driven intelligent brake control signal</li> <li>• Brake assist request signal</li> <li>• Brake power supply backup unit operation signal</li> <li>• Brake power supply backup unit operation request signal</li> <li>• Brake warning lamp request signal</li> <li>• Brake system warning lamp request signal</li> <li>• Brake pedaling force signal</li> </ul>
VCM	<p>Mainly transmits the following signals to electrically-driven intelligent brake unit and ABS actuator and electric unit (control unit) via CAN communication.</p> <ul style="list-style-type: none"> <li>• VCM control signal</li> <li>• Current regenerative torque signal</li> <li>• VCM status signal</li> <li>• Shift position signal</li> </ul> <p>Mainly receives the following signal from electrically-driven intelligent brake unit and ABS actuator and electric unit (control unit) via CAN communication.</p> <ul style="list-style-type: none"> <li>• Target braking force signal</li> <li>• Regenerative braking amount signal</li> </ul>
BCM	<p>Mainly transmits the following signals to electrically-driven intelligent brake unit via CAN communication.</p> <ul style="list-style-type: none"> <li>• Sleep wake up signal</li> </ul>

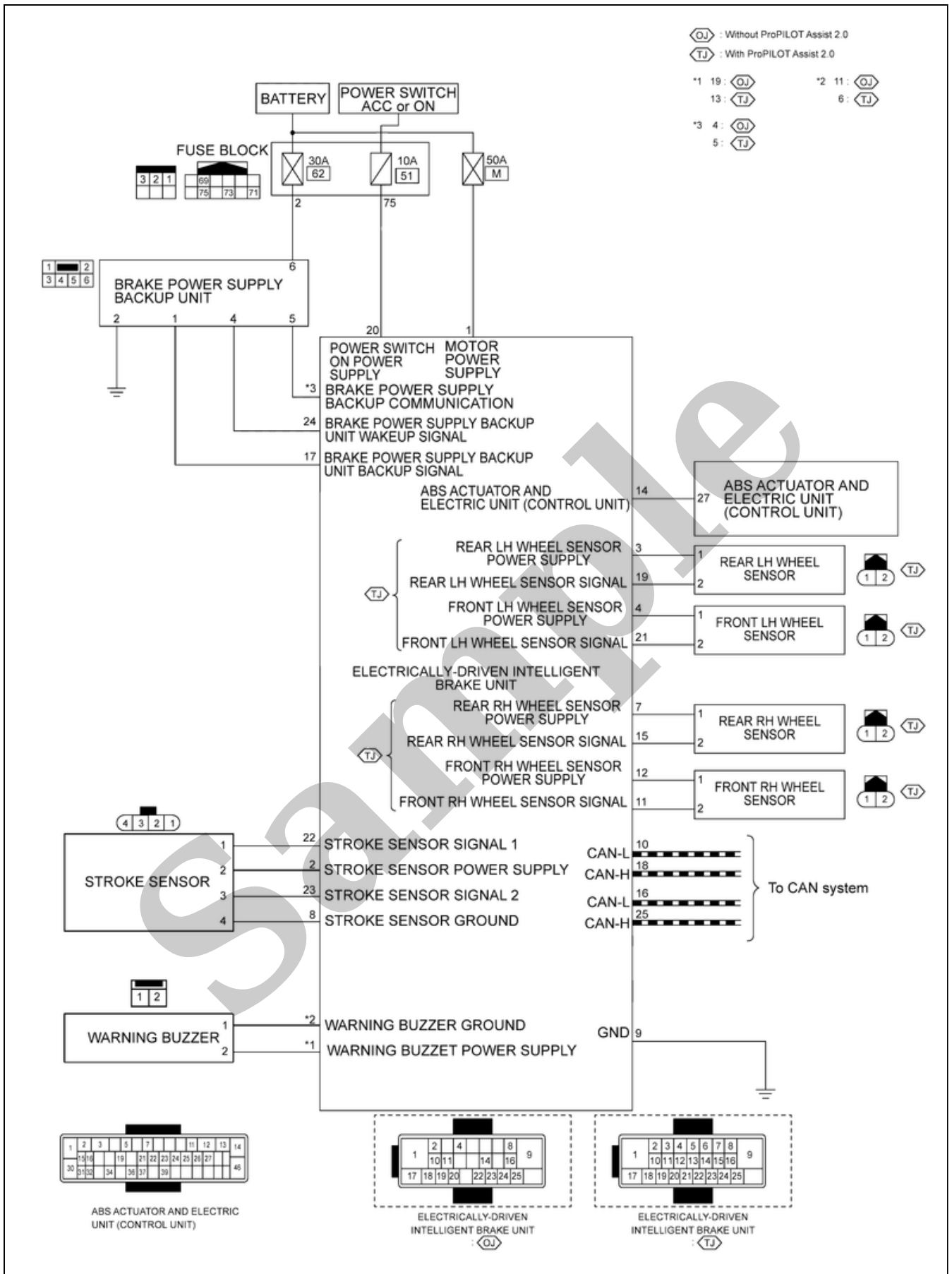
## CONDITION FOR OPERATION OF THE WARNING LAMP AND THE WARNING BUZZER

Turns ON when power switch turns ON and turns OFF when the system is normal, for bulb check.

Condition (status)	Brake warning lamp (red)	Brake system warning lamp (yellow)	Warning buzzer
Power switch OFF	OFF	OFF	OFF

<b>Condition (status)</b>	<b>Brake warning lamp (red)</b>	<b>Brake system warning lamp (yellow)</b>	<b>Warning buzzer</b>
For several seconds after the power switch is ON	ON	ON	OFF
Several seconds after power switch ON (when the system is in normal operation)	OFF	OFF	OFF
When the power supply to the electrically-driven intelligent brake unit is changed from the 12V battery to the brake power supply backup unit	ON	ON	ON
Brake power supply backup unit is malfunctioning	OFF	ON	OFF
Electrically-driven intelligent brake unit is malfunctioning	ON	ON	OFF
When brake fluid is less than the specified level (brake fluid level switch ON)	ON	OFF	OFF

Sample



- When there is a malfunction in the power system of the electrically-driven intelligent brake unit (no voltage is generated), voltage is temporarily supplied to the electrically-driven intelligent brake unit from the brake power supply backup unit. At the same time, the brake warning lamp and brake system warning lamp turn ON and the buzzer sounds.
- When a malfunction occurs in the electrically-driven intelligent brake unit, the VDC function performs control (boost operation).
- When a malfunction occurs in the PDM (Power Delivery Module) and 12V battery, the braking force is determined by the force pressing on the brake pedal (no boost operation). At the same time, brake warning lamp and the brake system warning lamp turn ON.
- When a malfunction occurs in the brake power supply backup unit, the brake system warning lamp turn ON.
- When a malfunction occurs in the electrically-driven intelligent brake unit and in the VDC function, the braking force is determined by the force pressing on the brake pedal (no boost operation). At the same time, the brake warning lamp and brake system warning lamp turn ON.
- When a malfunction occurs in the electrically-driven intelligent brake unit, VDC function, and power system, cooperative regenerative brake control is not performed.

DTC	Fail-safe condition
B14E0-02	The following functions are suspended.
B14E0-09	<ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> </ul>
B14E0-11	<ul style="list-style-type: none"> <li>• e-Step function</li> </ul>
B14E0-12	
B14E0-13	
B14E0-1C	
B14E0-38	
B14E0-4A	
B14E0-64	
B14E1-02	
B14E1-09	
B14E1-11	
B14E1-12	
B14E1-13	
B14E1-1C	
B14E1-38	
B14E1-4A	
B14E1-64	
B14E2-02	
B14E2-09	
B14E2-11	
B14E2-12	
B14E2-13	
B14E2-1C	
B14E2-38	
B14E2-4A	
B14E2-64	

DTC	Fail-safe condition
B14E3-02	
B14E3-09	
B14E3-11	
B14E3-12	
B14E3-13	
B14E3-1C	
B14E3-38	
B14E3-4A	
B14E3-64	
B14E4-64	
B14E5-64	
B14E5-92	
B14E6-85	
B14E6-92	
C18D0-01	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>Power supply from the brake power supply backup unit</li> </ul>
C18D1-09	
C18D2-12	
C18D3-14	
C18D4-14	
C18D5-09	
C18D6-09	
C18D7-09	
C18D8-09	
C18D9-09	
C18DA-09	
C18DB-09	
C18DC-09	
C18DD-09	
C18DE-82	
C18DE-83	
C18DE-87	
C18E1-04	Normal control
C18E1-07	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>Cooperative regenerative brake function</li> <li>e-Step function</li> <li>Boost function [Boost function by the ABS actuator and electric unit (control unit) is activated]</li> </ul>
C18E1-18	
C18E1-19	
C18E1-49	
C18E1-4B	
C18E3-86	
C18E4-88	
C18E5-88	

DTC	Fail-safe condition	
C18E6-49		
C18E7-13	Normal control	
C18E7-16	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>	
C18E7-17		
C18E7-1C		
C18E9-01		
C18E9-04		
C18E9-44		
C18E9-45		
C18E9-46		
C18E9-47		
C18E9-48		
C18E9-49		
C18E9-96		
C18EA-01		
C18EB-01		
C18EC-01		<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> <li>• Boost function [Boost function by the ABS actuator and electric unit (control unit) is activated]</li> </ul>
C18EC-04		
C18EC-11		
C18EC-12		
C18EC-13		
C18EC-14		
C18EC-15		
C18EC-1F		
C18ED-04		
C18EE-01		
C18EE-04		
C18EE-64		
C18EE-87		
C18EE-96		
C18EF-16		
C18EF-17		
C18EF-96		
C18F1-08		
C18F3-04		
C18F3-4B		
C18F4-86	Normal control	
C18F5-08		
C18F6-08		
C18F7-08	The following functions are suspended.	




DTC	Fail-safe condition
C18F7-86	<ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>
C18F8-08	Normal control
C18F8-86	
C18F9-02	
C18FA-44	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>
C18FA-46	Normal control
C18FC-18	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>
C18FC-19	
C18FD-18	
C18FD-19	
C18FE-29	
U1FA1-86	
U2140-87	
U2143-87	
U2148-87	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>
U214F-87	Normal control
U2240-87	
U2243-87	
U2248-87	<p>The following functions are suspended.</p> <ul style="list-style-type: none"> <li>• Cooperative regenerative brake function</li> <li>• e-Step function</li> </ul>
U224F-87	Normal control
U2252-87	
U225B-87	


# Warning / Indicator / Chime List

SIEMD-7307385

## FOR USA

Name	Design	Layout / Function
Brake warning lamp	BRAKE	For layout: Refer to <a href="#">Design</a> .
		For function: Refer to <a href="#">Brake Warning Lamp</a> .
Brake system warning lamp		For layout: Refer to <a href="#">Design</a> .
		For function: Refer to <a href="#">Brake System Warning Lamp</a> .

## EXCEPT FOR USA

Name	Design	Layout / Function
Brake warning lamp	BRAKE	For layout: Refer to <a href="#">Design</a> .
		For function: Refer to <a href="#">Brake Warning Lamp</a> .
Brake system warning lamp		For layout: Refer to <a href="#">Design</a> .
		For function: Refer to <a href="#">Brake System Warning Lamp</a> .

Sample