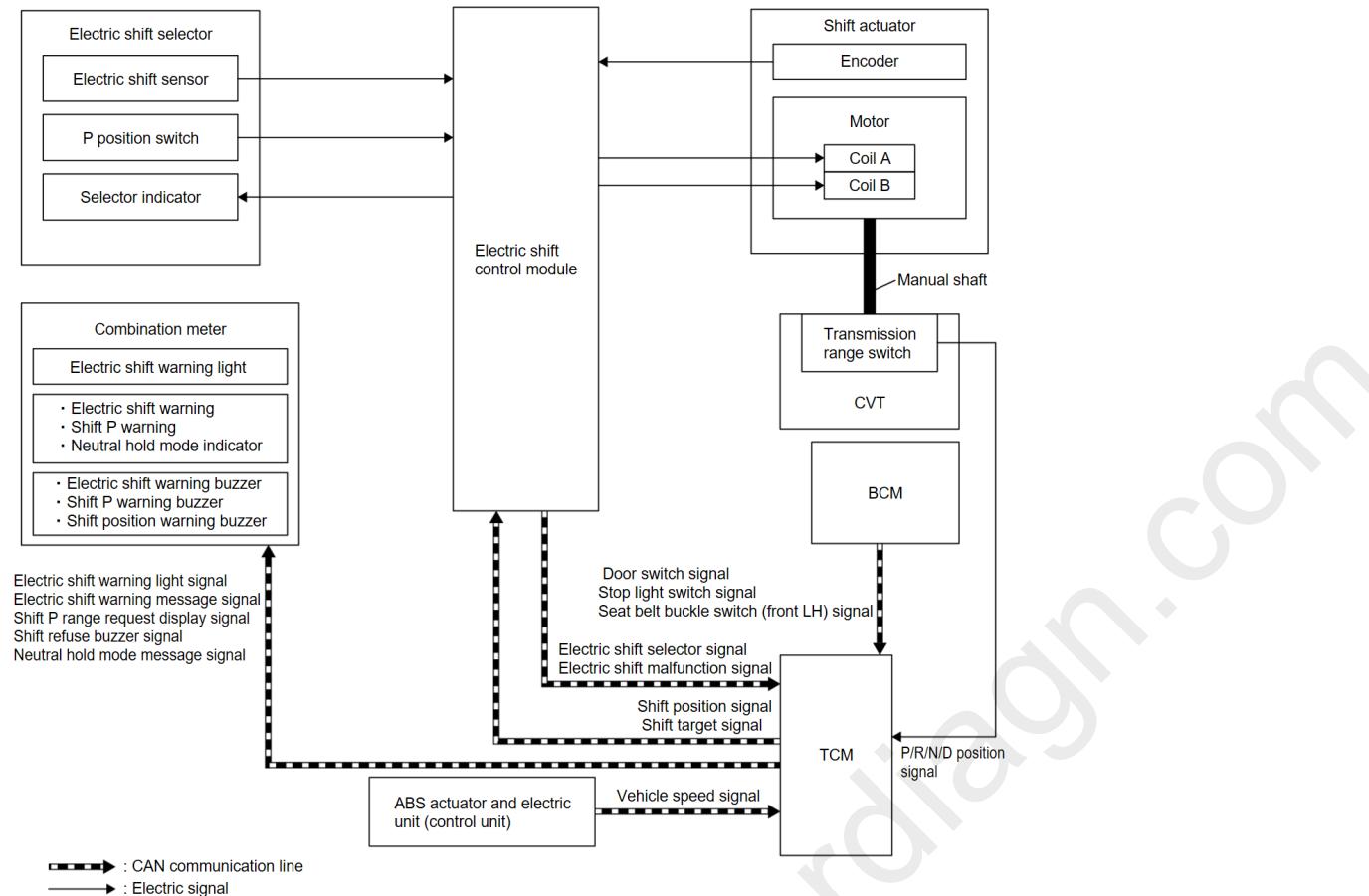


# System Description

- The electric shift system detects each shift position electrically. In addition, in P position, the electric shift system activates the shift actuator, according to electrical signals received from the P position switch and brings the vehicle into the parking state.
- In the event of a malfunction in the electric shift system, the selector indicator of electric shift selector turns OFF and only the shift indicator (on the combination meter) indicates the shift position.
- In the event of a malfunction in the electric shift system, the system enters fail-safe mode. Refer to [Fail-safe](#) .



Component	Function
Electric shift control module	<p>Mainly transmits the following signal to TCM via CAN communication</p> <ul style="list-style-type: none"> <li>• Electric shift selector signal</li> <li>• Electric shift malfunction signal</li> </ul> <p>Mainly receives the following signals from TCM via CAN communication</p> <ul style="list-style-type: none"> <li>• Shift position signal</li> <li>• Shift target signal</li> </ul>

Component	Function
Electric shift selector	Refer to <a href="#">Electric Shift Selector</a> 
Electric shift sensor	Refer to <a href="#">Electric Shift Sensor</a> 
P position switch	Refer to <a href="#">P Position Switch</a> 
Selector indicator	Refer to Selector Indicator <a href="#">Selector Indicator</a> 
Shift actuator	Refer to <a href="#">Shift Actuator</a> 
Transmission range switch	Refer to Transmission Range Switch <a href="#">Transmission Range Switch</a> 
TCM	<p>Mainly transmits the following signal to electric shift control module via CAN communication</p> <ul style="list-style-type: none"> <li>• Shift position signal</li> <li>• Shift target signal</li> </ul> <p>Mainly receives the following signals from electric shift control module via CAN communication</p> <ul style="list-style-type: none"> <li>• Electric shift selector signal</li> <li>• Electric shift malfunction signal</li> </ul>
BCM	<p>Mainly transmits the following signal to TCM via CAN communication</p> <ul style="list-style-type: none"> <li>• Stop light switch signal</li> <li>• Door switch signal</li> <li>• Seat belt buckle switch (front LH) signal</li> </ul>
ABS actuator and electric unit (control unit)	<p>Mainly transmits the following signal to TCM via CAN communication</p> <ul style="list-style-type: none"> <li>• Vehicle speed signal</li> </ul>

Component	Function
Combination meter	<p>Mainly receives the following signal from TCM via CAN communication</p> <ul style="list-style-type: none"><li>• Electric shift warning light signal</li><li>• Electric shift warning message signal</li><li>• Shift refuse buzzer signal</li><li>• Shift P range request display signal</li><li>• Neutral hold mode message signal</li></ul>