
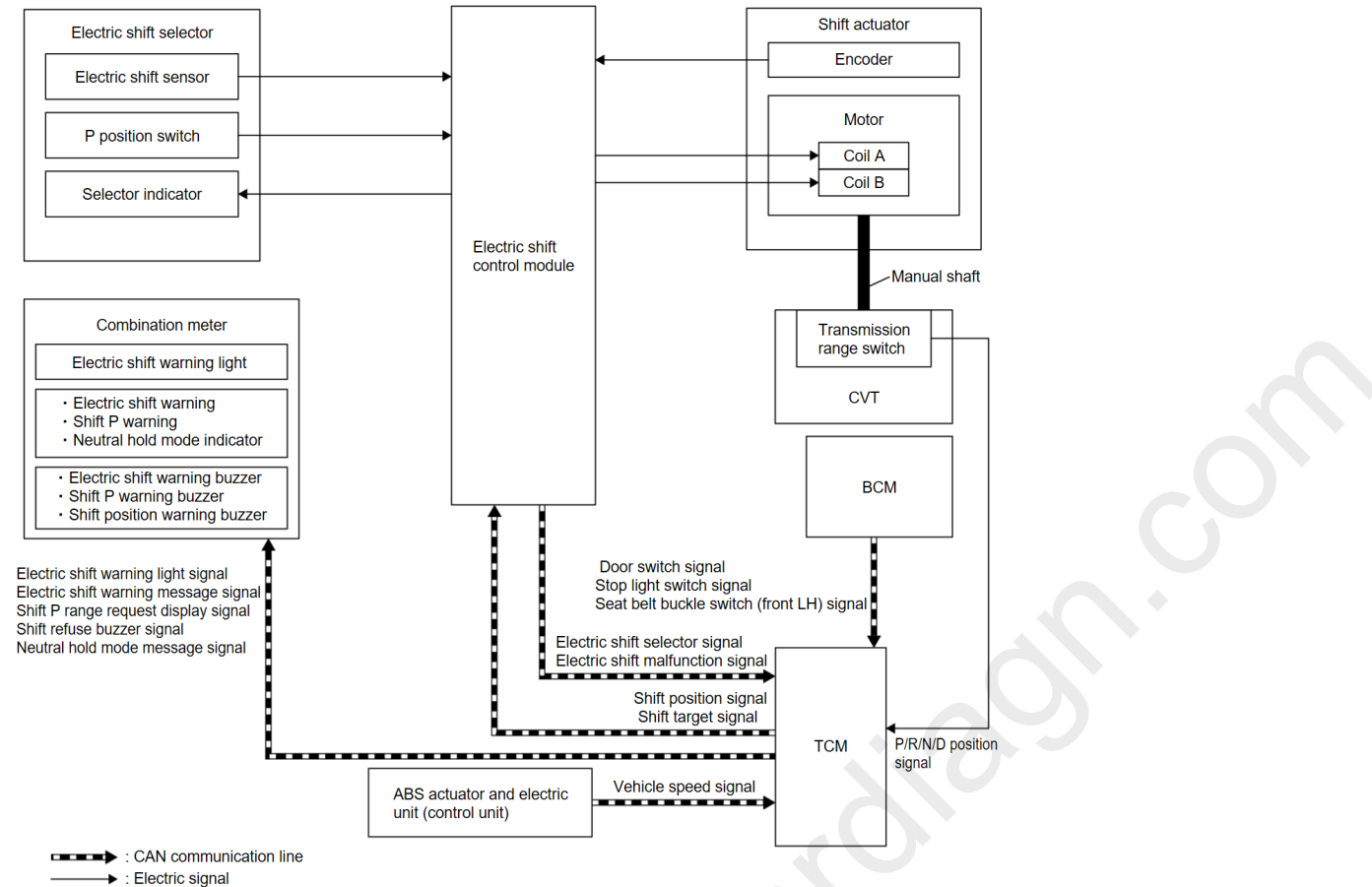










System Description

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

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

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