

SELF- DIAGNOSIS

SYSTEM DESCRIPTION

1. TCCU detects transfer case system malfunctions and indicates malfunctioning part(s) through flashing 4H,4L indicator lights.

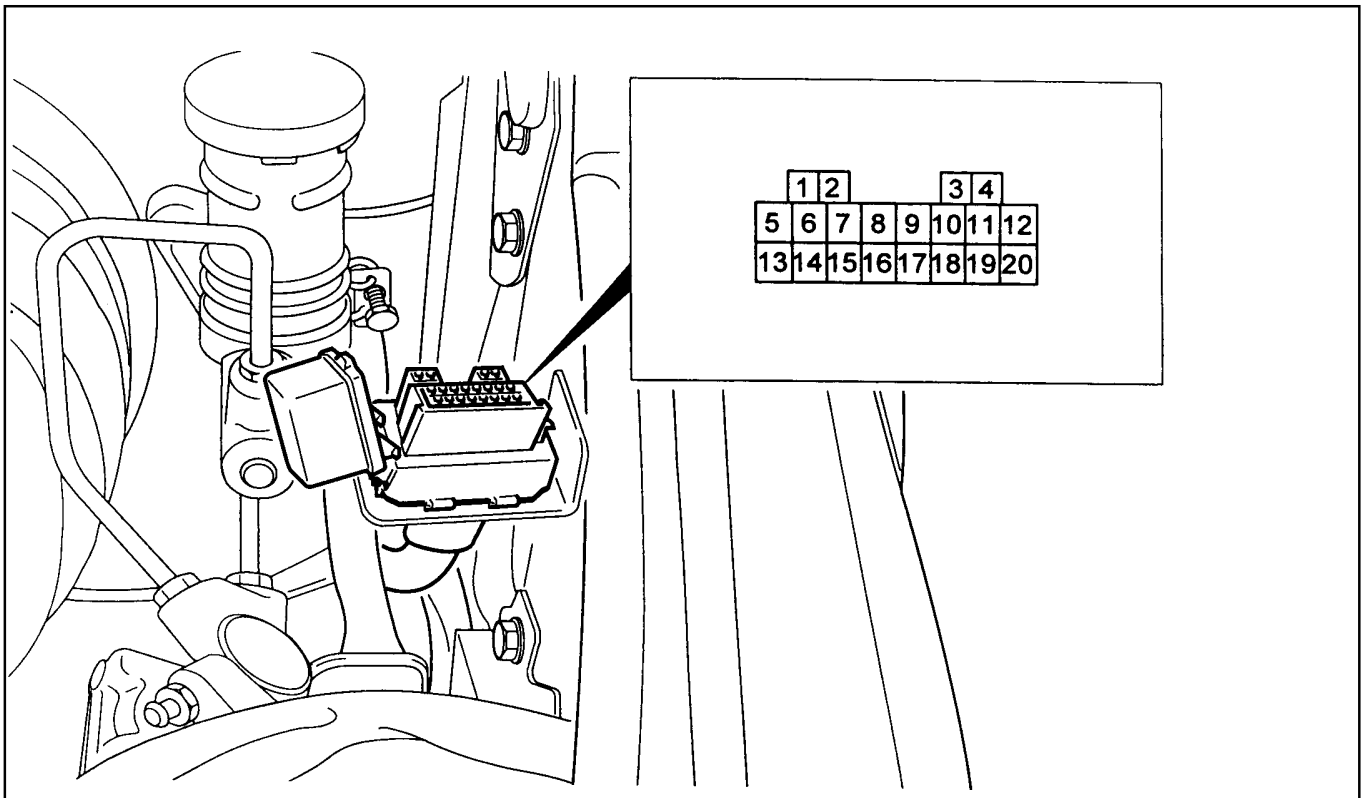
Using a service connector, connect it to the diagnosis box in the engine room and read the flashing of the '4WD CHECK' indicator light.

The flashing indicator light will show you defective code(s).

2. Identify 7 defective codes after reading the flashing indicator light.
 - TCCU
 - Shift motor
 - Magnetic synchronizer clutch
 - Speed sensor
 - Hub solenoid
 - Selector switch
 - Motor position sensor
3. Transfer case system is malfunctioning when:
 - 4H ,4L indicator lights are remain on after 0.6 second when turning the ignition switch 'ON'
 - 4H,4L indicator lights are continuously come on during driving.
4. If only 1 part is malfunctioning, '4WD CHECK' indicator light will display defective code 3 times continuously.
5. If more then 2 part is malfunctioning, the first malfunctioning part will be displayed 3 times and following malfunctioning parts will be displayed .
6. To read defective code, connect the service connector and turn the ignition switch 'ON'.
7. After repairing, eliminate the defective code stored in the TCCU.

Notice

Before replacing the malfunction parts with defective code, check the wires and connectors for proper condition.



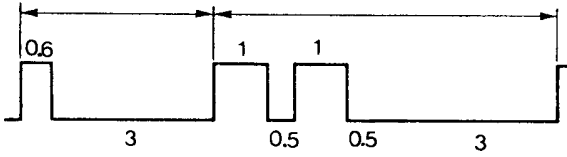
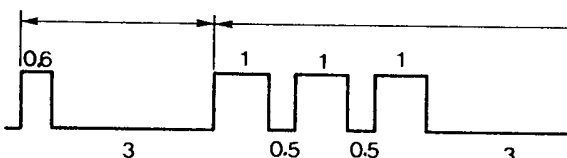
Defective Code Reading

1. Position the ignition switch to 'OFF'
2. Using a service connect the No.2 pin (Ignition) and No.6 pin (TCCU) of the diagnosis socket in the engine room.
3. Position the ignition switch to 'ON'.
4. Read the flashing '4WD CHECK' indicator light and identify the malfunctioning part.

How to Eliminate the Falut Code

1. Position the ignition switch to 'OFF'
2. Using a service connector, connect the No.2 pin (GND) and No.6 pin (TCCU) of the diagnosis socket in the engine room.
3. Position the ignition switch to 'ON' over 5 seconds.
4. Do defective code reading and make sure that all defective codes are eliminated.

No.	Defective Code	Malfunctioning Part
1	<p>4WD CHECK Light</p> <p>← ON</p> <p>← OFF</p>	TCCU
2	<p>4WD CHECK Light</p> <p>← ON</p> <p>← OFF</p>	Shift Motor
3	<p>4WD CHECK Light</p> <p>← ON</p> <p>← OFF</p>	Synchronizer Clutch
4	<p>4WD CHECK Light</p> <p>← ON</p> <p>← OFF</p>	Speed Sensor
5	<p>4WD CHECK Light</p> <p>← ON</p> <p>← OFF</p>	Hub Solenoid

No.	Defective Code	Malfunctioning Part
6	<p data-bbox="311 353 414 380">IG ON</p> <p data-bbox="523 353 710 380">Defective Code</p>  <p data-bbox="917 313 1013 414">4WD CHECK Light</p> <p data-bbox="877 436 965 463">← ON</p> <p data-bbox="877 504 981 530">← OFF</p>	Selector Switch
7	<p data-bbox="311 672 414 698">IG ON</p> <p data-bbox="523 672 710 698">Defective Code</p>  <p data-bbox="917 642 1013 743">4WD CHECK Light</p> <p data-bbox="877 766 965 792">← ON</p> <p data-bbox="877 833 981 860">← OFF</p>	Motor Positon Sensor