## Sensor cluster
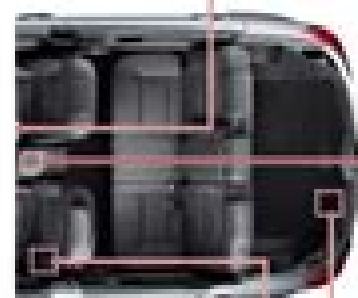


The sensor cluster is linked to the sensors on the unit board and CAN interface. And they are housed in one case and mounted to the body.

## TGS Lever assembly



The TGS communicates with TCU (Transmission Control Unit), ECU, ESP4ECU and instrument cluster to let the driver select the desired transmission gear and to maintain the desired driving condition. Also, the tip switch is installed on the lever knob and the steering wheel so that the driver select the gear manually when the shift lever is in "M".

## G-sensor(4WD,ABS)



For the vehicle with the ABS, a speed difference between the wheels is not noticeable as all the wheels are slipping during abrupt braking. Therefore, the vehicle needs the speed information from other sensors other than the wheel speed sensor. The longitudinal acceleration sensor (G-sensor) is used for this case. It controls the ABS by using the signals from the sensor during abrupt braking and acceleration.
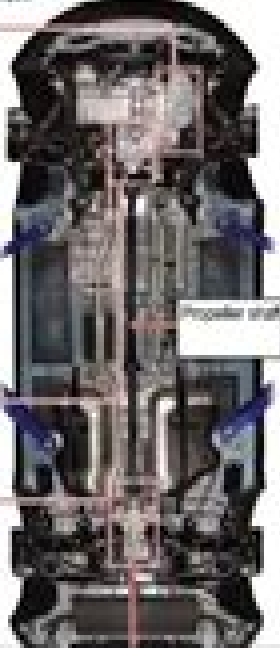


## TCU unit



The transmission control unit (TCU) is installed under the driver seat, and controls the transmission. The TCU is operated by the ignition power supply and receives and processes the following information from the inner sensors through CAN buses.

## TPMS ECU



The TPMS ECU is located to the rear bumper rail under the vehicle. It outputs the tire pressure and each wheel's condition to the instrument cluster, based on the wheel module information and CAN data.

---

# 4. CHASSIS COMPONENT LAYOUT

## 1) 4WD Vehicle With Automatic Transmission

### A/T assembly



Automatic transmission is available as 4WD- and 2WD-type, and provides 6 speeds for forward travel and 1 reverse travel. It is also equipped with the torque converter with inner lock-up clutch and electronically controlled solenoid which controls all hydraulic functions.

### PTU (Power Transfer Unit)



The PTU is a device that transfers the power generated from the engine to the rear side through propeller shaft and E-coupling by changing the power flow direction by 90° in the front wheel drive type 4WD vehicle.

### E coupling



It delivers the power to the rear axle from the PTU and controls the torque distribution between the front wheel and rear wheel.

### Rear axle assembly



The rear axle installed in the car is a removable axle, called IRDA (Independent Rear Differential Axle). The rear differential carrier is installed directly on the sub frame, and there is an independent suspension that allows each wheel on the same side to move vertically independently of each other with the universal joint and the slip joint.

# [Manual Repair Diagram](#)

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