

Sensor cluster	TCS-Level assembly
	
The sensor cluster is dedicated to the sensors on the unit board and CAN interface. And these are housed in one case and mounted to the body.	The TCS communicates with TCU (Transmission Control Unit), ECU, ESP/ECU and instrument cluster to tell the driver which the desired transmission gear and to maintain the desired driving condition. Also, the top switch is installed on the gear knob and the steering wheel so that the driver selects the gear manually when the SHIFT lever is in 'M'.

	10-sensor(ABS) ABS
	
For the vehicle with the ABS, a speed difference between the wheels is not noticeable as all the wheels are moving 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	TMS-ECU
	
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.	The TMS-ECU is located to the rear bumper bar 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

AT assembly	
	
Torque converter Oil pan Torque converter Oil pan	
Automatic transmission is available as AWD- and 2WD-type, and provides 8 speeds for forward travel and 1 reverse travel. It is also equipped with the torque converter with inner lock-up clutch and electronically controlled automatic clutch control of hydraulic functions.	
PTU (Power Transfer Unit)	
	
The PTU is a device that transfers the power generated from the engine to the rear axle through propeller shaft and P-clamping by changing the power flow direction by 90° in the front wheel drive type AWD vehicle.	
E-coupling	
	
E-coupling Rear axle side	Rear axle side
The rear axle installed in the car is a removable axle, called IFDA (Independent Rear Differential Axle). The rear differential carrier is installed directly on the rear frame, and there is an independent suspension that allows each wheel on the same axle to move vertically independently of each other with the universal joint and the slip joint.	

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Table of Contents Manual Repair Diagram

1. Understanding the eBook Manual Repair Diagram
 - The Rise of Digital Reading Manual Repair Diagram
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Repair Diagram
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual Repair Diagram
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Repair Diagram
 - Personalized Recommendations

- Manual Repair Diagram User Reviews and Ratings
- Manual Repair Diagram and Bestseller Lists

5. Accessing Manual Repair Diagram Free and Paid eBooks

- Manual Repair Diagram Public Domain eBooks
- Manual Repair Diagram eBook Subscription Services
- Manual Repair Diagram Budget-Friendly Options

6. Navigating Manual Repair Diagram eBook Formats

- ePUB, PDF, MOBI, and More
- Manual Repair Diagram Compatibility with Devices
- Manual Repair Diagram Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Manual Repair Diagram
- Highlighting and Note-Taking Manual Repair Diagram
- Interactive Elements Manual Repair Diagram

8. Staying Engaged with Manual Repair Diagram

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Manual Repair Diagram

9. Balancing eBooks and Physical Books Manual Repair Diagram

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Manual Repair Diagram

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Manual Repair Diagram

- Setting Reading Goals Manual Repair Diagram
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Manual Repair Diagram

- Fact-Checking eBook Content of Manual Repair Diagram

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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