

SECTION 5

ROAD TEST

1. SEAT BELTS
2. FREE PLAY OF BRAKE AND CLUTCH
3. HORN
4. WIND NOISE
5. OPTIONS AND ACCESSORIES
6. HEATER AND AIR CONDITIONING
7. OPERATION OF WINDSHIELD WIPER AND WASHER FOR PATTERN, SPEED, AND PARKING POSITION (INCLUDES AIM WASHER IF NECESSARY)
8. ENGINE AND TRANSMISSION PERFORMANCE DURING ACCELERATION, DECELERATION, IDLE, CRUISE AND DOWN SHIFTS
9. SQUEAKS AND RATTLES
10. STEERING COLUMN IGNITION LOCK
11. INSTRUMENTS AND GAUGES
12. THROTTLE CONTROL FOR FREE OPERATIONS
13. STEERING (WHEEL CENTER POSITION AND HANDLING)
14. BRAKES (INCLUDES PARKING BRAKE AND WARNING LIGHT)

1. SEAT BELTS

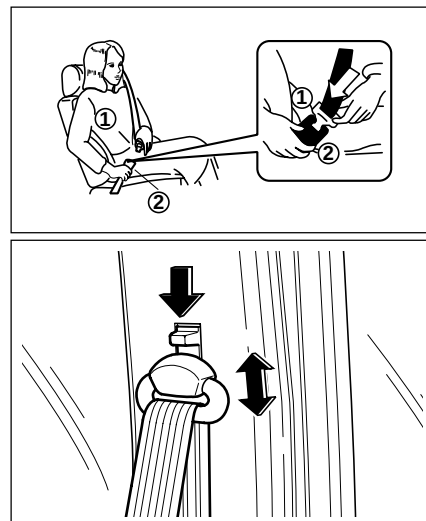
Check the operation of the seat belts.

- Buckle the front seat belts and off the latches.
- Buckle the rear seat belts and off the latches (if equipped).
- Pull the belt evenly out of the retractor and guide it across the body by inserting the metal latch plate "1" into the buckle "2".
- Seat belt height adjuster

Pull belt out, depress the center of the adjuster and adjust the height. Too high position can impair comfort.

- Seat belt warning chime (option)

The seat belt warning chime will sound for about 4 to 8 seconds when the ignition switch is in the "ON" position unless the driver's seat belt is securely fastened.



2. FREE PLAY OF BRAKE AND CLUTCH

Check the brake pedal and clutch pedal.

- Brake pedal

After turning off the engine and depressing the brake pedal several times to deplete the vacuum in the brake system, gently depress the brake pedal by hand and measure the distance it moves until slight resistance is felt.

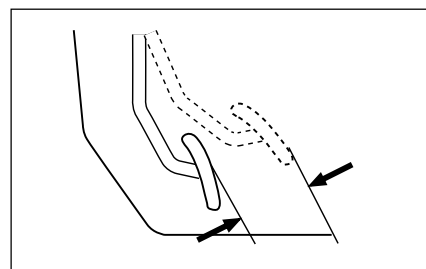
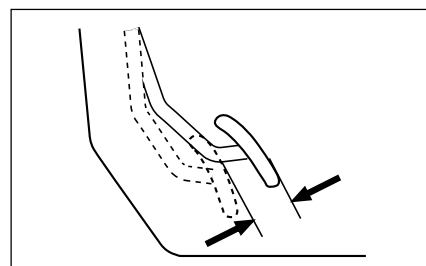
Brake pedal free play	1~8 mm
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- Clutch pedal

Depress the pedal by hand until clutch resistance is felt and measure the distance.

Clutch pedal free play	6~12 mm
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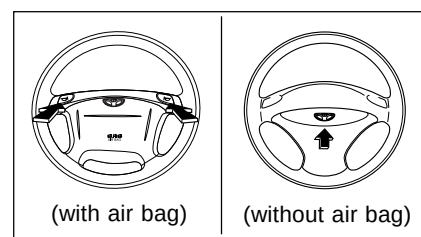
If the free play does not satisfy the specification, check the system or linkage and adjust.



3. HORN

Check the operation of the horn.

- Horn sounds whenever the horn pad is pushed.
- If there is high effort to push horn pad, the horn should be checked.



4. WIND NOISE

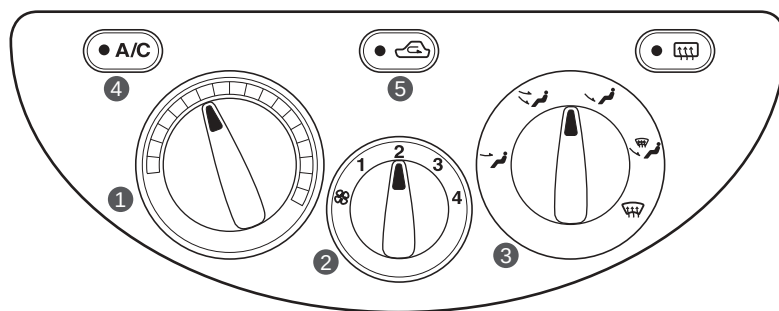
Check the wind noise by driving the car with high speed.

5. OPTIONS AND ACCESSORIES

Check the following items for proper operation and function with the evaluation of squeaks and rattles.

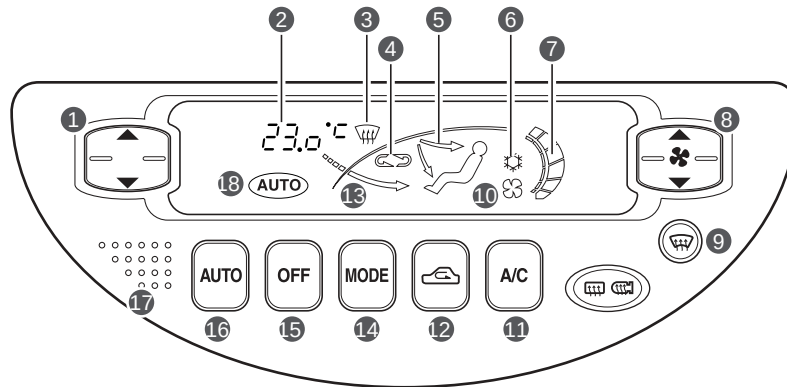
- Automatic transaxle
- Power sun roof
- Power steering system
- Anti-lock braking system
- Power window
- Tiltable steering system
- Fuel tank filler door release lever
- Keyless entry system

6. HEATER AND AIR CONDITIONING



1. Temperature control knob
2. Fan control knob
3. Air distribution mode knob
4. Air conditioning (A/C) button
5. Recirculation button

CONTROL PANEL (FULL AUTOMATIC TEMPERATURE CONTROL AIR CONDITIONING)



- | | | |
|---|------------------------------------|----------------------------------|
| 1. Temperature control button | 5. Air distribution mode indicator | 13. Outside air mode indicator |
| Up : Increase the temperature by 0.5°C (1°F) with each push | 6. Air conditioning indicator | 14. Air distribution mode button |
| Down : Decrease the temperature by 0.5°C (1°F) with each push | 7. Fan speed indicator | 15. OFF button |
| 2. Selected temperature | 8. Fan speed control button | 16. Auto button |
| 3. Defrost indicator | 9. Defrost button | 17. Temperature sensor |
| 4. Recirculation mode indicator | 10. Fan operation indicator | 18. Auto mode indicator |
| | 11. Air conditioning button | |
| | 12. Recirculation mode button | |

Check the operation of heater and air conditioning. (Check the controls and confirm that the system function properly.)

- Heater

- 1) Start the engine and wait until the engine fully warmed up for 10-15 minutes.
- 2) Set the temperature switch to heat position (red colored area).
- 3) Adjust the fan switch to determine the desired speed of the fan. (4 fan speeds)
- 4) Adjust the air distribution mode, check for the operation condition.

 (FRONT): Air flows from the center and side ventilators.

 (BI-LEVEL): Air flows from the center, side ventilators and the floor outlets.

 (FLOOR): Air flows mainly from floor vents.

A small amount flows from windshield and front door window defroster vents.

 (FLOOR/DEFROST): Air flows from floor vents, and windshield and front door window defroster vents.

 (DEFROST): Air flows from the windshield and front door window defroster vents.

- Ventilation

- 1) Put the air conditioning switch to "OFF" position and select the air flow to fresh air mode.
- 2) Outside air should come in through center and side vents.

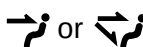
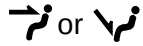
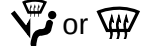
 (Fresh air mode): Outside air is drawn into the passenger compartment.

 (Recirculation mode): Interior air is recirculated inside the vehicle.

- Air conditioning (option)

Check the operation of air conditioning by controlling temperature control switch, fan control switch, air distribution mode switch and recirculation mode switch with air conditioning switch "ON".

- Operation of heater and air conditioning

Item \ Mode	Max. cooling	Normal cooling	Bi-level	Ventilation
Aircon s/w	ON	ON	ON or OFF	OFF
Air flow mode				
Air distribution mode		 or 		 or 
Temp. control s/w	Rotate fully anti-clockwise(blue)	Blue	Between Blue and Red	Blue
Fan speed	4 speed	As required	As required	As required
Item \ Mode	Max. heating	Normal heating	Defrosting	
Aircon s/w	OFF	OFF	OFF or ON	
Air flow mode				
Air distribution mode		 or 	 or 	
Temp. control s/w	Rotate fully clockwise(Red)	Red	Red	
Fan speed	4 speed	As required	As required	

7. OPERATION OF WINDSHIELD WIPER AND WASHER FOR PATTERN, SPEED, AND PARKING POSITION (INCLUDES AIM WASHER IF NECESSARY)

Check the operation of the windshield wiper and washer, and adjust washer aim as necessary. See "17. Wiper and washer operation" in section 3.

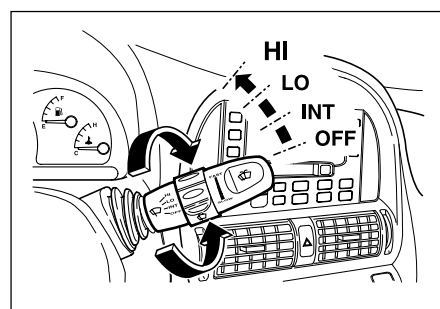
- Windshield wiper

With the key "ON", turn the wiper switch upwards step by step.

NOTE: Do not operate the wipers when the windshield is dry.

- Washer

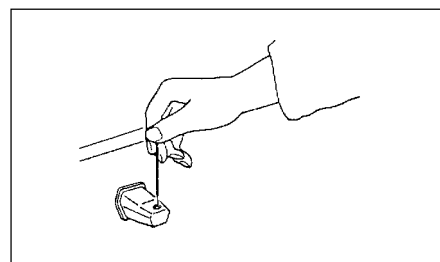
- To spray washer fluid on the windshield, pull the lever towards the steering wheel with the ignition on.
- When you pull the lever for less than about 0.6 seconds, the washer fluid is sprayed onto the windshield, but the windshield wipers are not operated.
- When you pull the lever for more than about 0.6 seconds, the washer fluid is sprayed onto the windshield while you pull the lever and then the windshield wipers are operate for several cycles.
- When the lever is released, wipers automatically should return to the rest position.



wiper / washer switch

- Washer aim adjustment

- Insert a straight pin into the washer nozzle spray outlet and adjust the nozzle location as necessary.



8. ENGINE AND TRANSMISSION PERFORMANCE DURING ACCELERATION, DECELERATION, IDLE, CRUISE AND DOWN SHIFTS

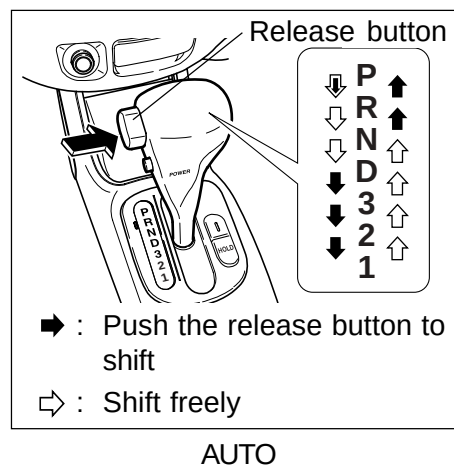
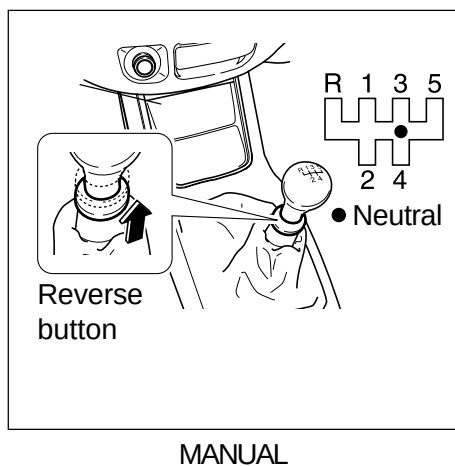
- Check the engine performance during idling and partial throttle.

- 1) At idle

- Take note of the idle speed with the engine fully warmed up.

Idle rpm	800 ± 100
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- 2) During partial throttle
 - The performance should be smooth without any hesitation.
 - The speed should be maintained at a constant 40-50 km/h.
- Check the engine performance under loading state and during cruising.
 - 1) Under loading state
 - The vehicle should accelerate smoothly without any laboring or hesitation.
 - 2) During crusing
 - The vehicle should run smoothly without any hesitation or surging.
- Check the transmission performance
 - The gearshift should be changed smoothly as the vehicle speed becomes increase.
 - The transmission should run smoothly without any abnormal noises or vibrations.
- Check the vibration and noise from transaxle and its related devices.



- Check the Brake Transaxle Shift Interlock (BTSI) function (Automatic transaxle)
 - The BTSI can prevent abrupt start.
 - When starting
 - : After pressing brake pedal, you can move the select lever.
 - Without starting
 - : Key "ON" and press brake pedal, you can move the select lever.
 - : Insert key to BTSI switch hole near selector lever.

9. SQUEAKS AND RATTLES

Check squeaks and rattles.

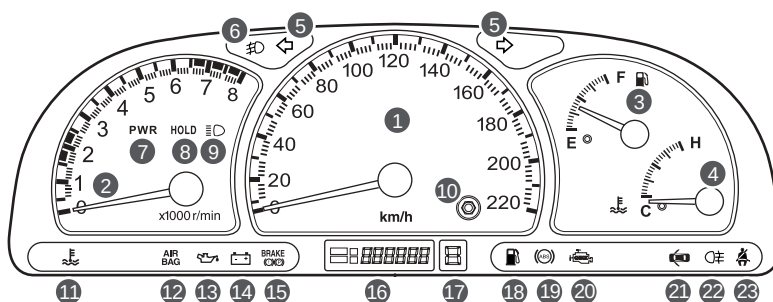
- The vehicle should run without any abnormal squeaks and rattles from the chassis or the body.
- If required, retighten the loosen nuts or bolts, or apply lubricant.

10. STEERING COLUMN IGNITION LOCK

Check steering column for being locked by rotating the steering wheel when the ignition key is removed from key slot.

11. INSTRUMENTS AND GAUGES

Check the indicators and gauges in instrument panel.

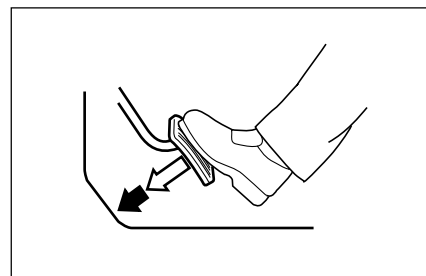


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|---------------------------------------|--------------------------------------|---------------------------------------|
| 1. Speedometer | 8. Hold mode indicator | 16. Odometer |
| 2. Tachometer | 9. High beam indicator | 17. Selector lever position indicator |
| 3. Fuel gauge | 10. Odometer mode select button | 18. Low fuel level warning lamp |
| 4. Temperature gauge | 11. Coolant temperature warning lamp | 19. ABS warning lamp |
| 5. Turn signal/hazard warning flasher | 12. Airbag warning lamp | 20. Malfunction indicator lamp |
| 6. Front fog lamp indicator | 13. Engine oil pressure warning lamp | 21. Door open warning lamp |
| 7. Power mode indicator | 14. Charging system warning lamp | 22. Rear fog lamp indicator |
| | 15. Brake system warning lamp | 23. Safety belt reminder |

12. THROTTLE CONTROL FOR FREE OPERATIONS

Check the vehicle response when the accelerator pedal is pushed or not.

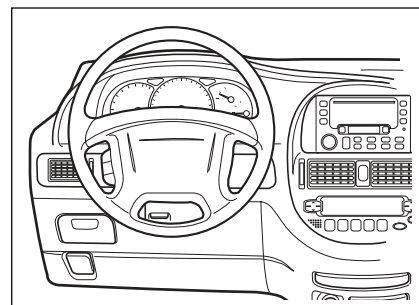
- The vehicle speed should vary quickly according to the force activating on accelerator pedal.



13. STEERING (WHEEL CENTER POSITION AND HANDLING)

Check that the steering wheel is centered.

- The steering wheel should be centered when the vehicle is traveling in a straight line on a flat road surface.



14. BRAKES (INCLUDES PARKING BRAKE AND WARNING LIGHT)

Check the operation of brakes.

- Brake system testing
 - Brake should be tested on a dry, clean, reasonably smooth and level roadway.
 - Press the brake pedal, and check for the efficiency of brakes. If the pedal gradually falls away with the constant pressure, the hydraulic system may be leaking. Perform a visual check to confirm any suspected leak after stopping the vehicle.
 - If adopted ABS, check for the indicator operation.
 - * If the EBCM(Electronic Brake Control Module) detects a problem with the system, the ABS warning lamp will either flash continuously to alert the driver of the problem.
- Service and parking brake operation.
 - Check the stroke of the parking brake by counting the number of notch clicks heard while fully applying it from the released position.

* Allowable Limit

6~9 notches with a force of approx. 20kgf.

- The vehicle should brake in a straight line.
- Park the vehicle on an incline and set the parking brake. The vehicle should remain in position.

Check the brake system warning light

- Brake warning light comes on when the parking brake is applied with the ignition on and goes out when the parking brake is released. If this warning light comes on even when the parking brake is completely released, it may indicate that the brake fluid in the reservoir is low.
- ABS warning light comes on when the ignition is switched on and should go out after about 3 seconds. If the brake system warning light and ABS warning light illuminate at the same time while driving, it may indicate a failure in the base brake system due to the malfunction.