

17. Diagnostics with Phenomenon

A: INSPECTION

Symptoms	Faulty parts
Engine stalls when driving in "D" or "R" range, or selecting "N" → "D", "N" → "R".	<ul style="list-style-type: none">• Control valve• Engine control system
While driving in "D" range, vibration occurs immediately before the stop or engine stalls.	<ul style="list-style-type: none">• Control valve• Torque converter
Vehicle cannot shift while driving in "D" range.	<ul style="list-style-type: none">• Control valve• TCM• Shift mechanism• Power supply system
Excessive shock when selecting "N" → "D", and "N" → "R".	<ul style="list-style-type: none">• Control valve• TCM• F&R clutch pack• ATF deterioration or lack
Excessive shock at standing start in "D" range.	<ul style="list-style-type: none">• Control valve• TCM• F&R clutch pack• ATF deterioration or lack
Engine speed increases abruptly during driving in "D" or "R" range.	<ul style="list-style-type: none">• Control valve• Secondary pressure sensor• F&R clutch pack• ATF deterioration or lack
Vehicle can not start when depressing the accelerator pedal in "D" or "R" range, or acceleration is very poor. (without abrupt engine increase)	<ul style="list-style-type: none">• Control valve• F&R clutch pack• Shift mechanism• Parking mechanism• Engine control system• Power supply system
Shift indicator in combination meter displays the position which differs from select lever position.	<ul style="list-style-type: none">• Inhibitor switch• Select cable related• Combination meter
Manual mode enters even though the select lever and paddle shift switch is not operated.	<ul style="list-style-type: none">• Manual mode switch• Paddle shift switch• Select lever• TCM
Engine speed increases abruptly in "D" or "R" range, vehicle can not start.	<ul style="list-style-type: none">• F&R clutch pack• Select cable related
Manual mode can not be set	<ul style="list-style-type: none">• Select lever• TCM

Diagnostics with Phenomenon

CONTINUOUSLY VARIABLE TRANSMISSION (DIAGNOSTICS)

AUTOMATIC TRANSMISSION

5AT

	Page
1. General Description	2
2. Automatic Transmission Fluid	28
3. Differential Gear Oil	30
4. Road Test	31
5. Stall Test	32
6. Time Lag Test	33
7. Line Pressure Test	34
8. Transfer Clutch Pressure Test	35
9. Automatic Transmission Assembly	36
10. Transmission Mounting System	46
11. Extension Case Oil Seal	47
12. Differential Side Retainer Oil Seal	48
13. Inhibitor Switch	49
14. Front Vehicle Speed Sensor	50
15. Rear Vehicle Speed Sensor	52
16. Turbine Speed Sensor 1	53
17. Control Valve Body	54
18. Transmission Control Module (TCM)	56
19. ATF Cooler Pipe and Hose	57
20. Air Breather Hose	60
21. Oil Charge Pipe	61
22. Torque Converter Assembly	62
23. Drive Plate	63
24. Extension Case	64
25. Transfer Clutch	66
26. Rear Drive Shaft	68
27. Reduction Driven Gear	69
28. Center Differential Carrier	72
29. Parking Pawl	74
30. Converter Case	76
31. Oil Pump Cover	78
32. Drive Pinion Shaft Assembly	82
33. Front Differential Assembly	87
34. AT Main Case	92
35. Transmission Control Device	103
36. Diagnostics with Phenomenon	105