

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)

MANUAL TRANSMISSION AND DIFFERENTIAL

6MT

	Page
1. General Description	2
2. Transmission Gear Oil	24
3. Manual Transmission Assembly	26
4. Transmission Mounting System	33
5. Oil Seal	36
6. Differential Side Retainer Oil Seal	38
7. Switches and Harness	40
8. Air Breather Hose	42
9. Preparation for Overhaul	43
10. Transfer Case and Extension Case Assembly	44
11. Transfer Drive Gear	50
12. Transfer Driven Gear	52
13. Center Differential	54
14. Shift Link Assembly	55
15. Transmission Case	63
16. Main Shaft Assembly for Single-Range	67
17. Drive Pinion Shaft Assembly	76
18. Front Differential Assembly	87
19. Reverse Idler Gear	95
20. Shifter Fork and Rod	102
21. General Diagnostic Table	107