

## 10.General Diagnostic Table

### A: INSPECTION

| Symptoms                  | Possible cause                                                  | Corrective action                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| AT select lever           | Starter does not run.                                           | Adjust the select cable and inhibitor switch, or inspect the circuit.                                                                             |
|                           | Back-up light does not illuminate.                              | Adjust the select cable and inhibitor switch, or inspect the circuit.                                                                             |
|                           | AT shift lock system does not operate normally.                 | Adjust the select cable and inhibitor switch, or inspect the circuit.                                                                             |
|                           | Manual mode can not be set.                                     | Inspect the mode switch and select lever, or inspect the circuit.                                                                                 |
|                           | Up-shift is not engaged at manual mode.                         | Check the shift-up switch and circuit.                                                                                                            |
|                           | Down-shift is not engaged at manual mode.                       | Check the shift-down switch and circuit.                                                                                                          |
| MT gear shift lever (6MT) | Cannot shift into reverse.                                      | Adjust the MT gear select cable.                                                                                                                  |
|                           | Shifted to 6th though it shifted to reverse.                    | Adjust or replace the MT gear select cable.                                                                                                       |
|                           | Can shift into reverse when the slider is not pulled up.        | Adjust or replace the MT gear select cable.                                                                                                       |
|                           | Slider cannot be pulled up or sticks in the pulled-up position. | <ul style="list-style-type: none"> <li>• Check the shift link system of the transmission.</li> <li>• Replace the MT gear select lever.</li> </ul> |

General Diagnostic Table

CONTROL SYSTEMS

---

# CONTINUOUSLY VARIABLE TRANSMISSION

# CVT

---

|                                                  | Page |
|--------------------------------------------------|------|
| 1. General Description .....                     | 3    |
| 2. CVTF .....                                    | 37   |
| 3. Differential Gear Oil .....                   | 41   |
| 4. Variator Chain Break-in .....                 | 44   |
| 5. AWD ON/OFF Switching Mode .....               | 45   |
| 6. Road Test .....                               | 46   |
| 7. Stall Test .....                              | 47   |
| 8. Time Lag Test .....                           | 49   |
| 9. Secondary Pressure (Line Pressure) Test ..... | 50   |
| 10. Transfer Clutch Pressure Test .....          | 53   |
| 11. Automatic Transmission Assembly .....        | 55   |
| 12. Transmission Mounting System .....           | 85   |
| 13. Extension Case Oil Seal .....                | 88   |
| 14. Differential Side Retainer Oil Seal .....    | 90   |
| 15. Inhibitor Switch .....                       | 94   |
| 16. Secondary Speed Sensor .....                 | 101  |
| 17. Primary Speed Sensor .....                   | 104  |
| 18. Front Wheel Speed Sensor .....               | 106  |
| 19. Secondary Pressure Sensor .....              | 108  |
| 20. Control Valve Body .....                     | 110  |
| 21. Transmission Harness .....                   | 120  |
| 22. Transmission Control Module (TCM) .....      | 123  |
| 23. CVTF Cooler Pipe and Hose .....              | 125  |
| 24. Air Breather Hose .....                      | 131  |
| 25. Drive Plate .....                            | 132  |
| 26. Preparation for Overhaul .....               | 134  |
| 27. Torque Converter Assembly .....              | 135  |
| 28. Extension Case .....                         | 137  |
| 29. Rear Drive Shaft .....                       | 140  |
| 30. Transfer Clutch .....                        | 145  |
| 31. Transfer Reduction Driven Gear .....         | 157  |
| 32. Parking Pawl .....                           | 162  |
| 33. Intermediate Case .....                      | 164  |
| 34. CVTF Filter .....                            | 169  |
| 35. Reverse Brake Assembly .....                 | 170  |
| 36. Forward Clutch Assembly .....                | 179  |
| 37. Reduction Driven Gear .....                  | 199  |
| 38. Transmission Control Device .....            | 206  |
| 39. Transmission Case .....                      | 210  |
| 40. Primary Pulley and Secondary Pulley .....    | 225  |
| 41. Variator Chain .....                         | 240  |
| 42. Drive Pinion Shaft Assembly .....            | 241  |
| 43. Front Differential Assembly .....            | 262  |

## CONTINUOUSLY VARIABLE TRANSMISSION

---

|     |                                   |     |
|-----|-----------------------------------|-----|
| 44. | Oil Pump .....                    | 280 |
| 45. | Oil Pump Chain .....              | 281 |
| 46. | Converter Case Cover .....        | 288 |
| 47. | Front Reduction Drive Gear .....  | 296 |
| 48. | Front Reduction Driven Gear ..... | 303 |
| 49. | Converter Case .....              | 313 |
| 50. | Diagnostics with Phenomenon ..... | 316 |