

## Diagnosis By Symptom

### Symptom Chart(s)

#### Symptom Chart: Automatic Transmission

Diagnostics in this manual assume a certain skill level and knowledge of Ford-specific diagnostic practices. REFER to: [Diagnostic Methods](#) (100-00 General Information, Description and Operation).

In most circumstances the PCM/ TCM sets a DTC to help guide with diagnostics. Refer to the DTC Chart before using the Symptom Chart. The Condition column lists the vehicle condition. The Possible Sources column lists a detailed vehicle condition. The Action column lists the action to be performed to determine the cause of the condition. Each action lists the components that can cause the symptom and the individual components in that system. The components are listed in order of disassembly. Use the list of components and the required action to focus on disassembly inspections for the root cause of the concern.

| Symptom   | Possible Sources   | Action   |
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| <ul style="list-style-type: none"> <li>Engagement concerns</li> </ul> | <ul style="list-style-type: none"> <li>No forward</li> </ul> | <ul style="list-style-type: none"> <li>CHECK E clutch for No Apply.<br/>REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>CHECK A clutch for No Apply.<br/>REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>CHECK the low one way clutch for damage.<br/>REFER to: <a href="#">Low One-Way Clutch Assembly</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|   | <ul style="list-style-type: none"> <li>No reverse</li> </ul> | <ul style="list-style-type: none"> <li>CHECK F clutch for No Apply.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>CHECK B clutch for No Apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>CHECK D clutch for No Apply.<br/>REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>                                |

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|  | <ul style="list-style-type: none"> <li>• Harsh reverse</li> </ul>        | <ul style="list-style-type: none"> <li>• Corrupt or incorrect adaptive learn tables. PERFORM an adaptive learning drive cycle.<br/>REFER to: <a href="#">Adaptive Learning Drive Cycle</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• CHECK F clutch for Harsh Apply.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK B clutch for Delayed Apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK D clutch for Delayed Apply.<br/>REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>• Harsh forward</li> </ul>        | <ul style="list-style-type: none"> <li>• Corrupt or incorrect adaptive learn tables. PERFORM an adaptive learning drive cycle.<br/>REFER to: <a href="#">Adaptive Learning Drive Cycle</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• CHECK E clutch for Harsh Apply.<br/>REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK A clutch for Delayed Apply.<br/>REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>• Delayed/soft reverse</li> </ul> | <ul style="list-style-type: none"> <li>• CHECK the transmission fluid level.<br/>REFER to: <a href="#">Transmission Fluid Level Check</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• CHECK line pressure.<br/>REFER to: <a href="#">Special Testing Procedures</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK F clutch for Delayed Apply.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK B clutch for Delayed Apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic</li> </ul>   |

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|  |   | <p>Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</p> <ul style="list-style-type: none"> <li>• CHECK D clutch for Delayed Apply. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>• Delayed soft/forward</li> </ul>      | <ul style="list-style-type: none"> <li>• CHECK the transmission fluid level. REFER to: <a href="#">Transmission Fluid Level Check</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• CHECK line pressure. REFER to: <a href="#">Special Testing Procedures</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK E clutch for damage. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>• CHECK A clutch for Delayed Apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>• No forward and no reverse</li> </ul> | <ul style="list-style-type: none"> <li>• CHECK the transmission fluid level. REFER to: <a href="#">Transmission Fluid Level Check</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• INSPECT the filter and filter to pump seal/gasket. REFER to: <a href="#">Transmission Fluid Pan, Gasket and Filter</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).</li> <li>• INSPECT the pump assembly. REFER to: <a href="#">Transmission</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).</li> <li>• INSPECT main pressure regulator valve for damage, scoring, or sticking. REFER to: <a href="#">Main Control Valve Body</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation). REFER to: <a href="#">Main Control Valve Body - Vehicles With: Auto-Start-Stop</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).</li> </ul> |

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|  |   | <ul style="list-style-type: none"> <li>INSPECT turbine shaft splines on transmission input shaft and in the torque converter turbine. REPLACE damaged components as necessary.<br/>REFER to: <a href="#">Transmission</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>Delayed/soft forward and reverse</li> </ul>                        | <ul style="list-style-type: none"> <li>CHECK the transmission fluid level.<br/>REFER to: <a href="#">Transmission Fluid Level Check</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>CHECK line pressure.<br/>REFER to: <a href="#">Special Testing Procedures</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>INSPECT the filter and filter to pump seal/gasket.<br/>REFER to: <a href="#">Transmission Fluid Pan, Gasket and Filter</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).</li> <li>INSPECT main pressure regulator valve for damage, scoring, or sticking.<br/>REFER to: <a href="#">Main Control Valve Body</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).<br/>REFER to: <a href="#">Main Control Valve Body - Vehicles With: Auto-Start-Stop</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).</li> <li>INSPECT the pump assembly.<br/>REFER to: <a href="#">Transmission</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>Neutral after launch</li> </ul>                                    | <ul style="list-style-type: none"> <li>The Low One way clutch is not holding on acceleration.<br/>REFER to: <a href="#">Low One-Way Clutch Assembly</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Harsh/soft/delayed engagement after stop/start restart.</li> </ul> | <ul style="list-style-type: none"> <li>CHECK auxiliary transmission oil pump, pick up tube. Pump tube to case seal missing or damaged. Pump output tube blocked/restricted.<br/>REFER to: <a href="#">Transmission Fluid Auxiliary Pump</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission -</li> </ul>   |

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|  |   | 10R80, Removal and Installation).  |
| <ul style="list-style-type: none"> <li>Shift concerns</li> </ul> | <ul style="list-style-type: none"> <li>Slip on hard acceleration in 1st or 2nd</li> </ul> | <ul style="list-style-type: none"> <li>One way clutch (roller type slipping). REFER to: <a href="#">Low One-Way Clutch Assembly</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>No 1-2 shift/harsh/soft/slipping</li> </ul>        | <ul style="list-style-type: none"> <li>C, D clutch may be damaged or worn. See condition C or D clutch does not apply. REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A clutch may be slipping during the shift. See condition A clutch delayed/soft/slipping apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The E clutch may be seized Stuck on. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>No 2-3 shift/harsh/soft/slipping</li> </ul>        | <ul style="list-style-type: none"> <li>The E clutch may be damaged or worn. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>One Way clutch seized/stuck holding. REFER to: <a href="#">Low One-Way Clutch Assembly</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A, C, or D clutch may be slipping during the shift. See condition A, C, or D clutch delayed/soft/slipping apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |

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|  | <ul style="list-style-type: none"> <li>No 3-4 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>The E clutch may be damaged or worn. See condition E clutch does not apply. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A, C, or D clutch may be slipping during the shift. See condition A, C, or D clutch delayed/soft/slipping apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The E clutch may not be releasing properly. See condition E clutch always applied. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>No 4-5 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>The E clutch may be damaged or worn. See condition, E clutch does not apply. REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A, C, F clutch may be slipping during the shift. See condition A, C, F clutch delayed/soft/slipping apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The D clutch may not be releasing properly. See condition D clutch always applied. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>      |

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|  | <ul style="list-style-type: none"> <li>No 5-6 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>The D clutch may be damaged or worn. See condition D clutch does not apply. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A, E, F clutch may be slipping during the shift. See condition A, E, F clutch delayed/soft/slipping apply. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The C clutch may not be releasing properly. See condition C clutch always applied. REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>No 6-7 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>The C clutch may be damaged or worn. See condition C clutch does not apply. REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The D, E, F clutch may be slipping during the shift. See condition D, E, F clutch delayed/soft/slipping apply. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A clutch may not be releasing properly. See condition A clutch always applied. REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |

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|  | <ul style="list-style-type: none"> <li>No 7-8 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>CHECK B clutch for damage. REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The D, E, F clutch may be slipping during the shift. See condition D, E, F clutch delayed/soft/slipping apply. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The C clutch may not be releasing properly. See condition C clutch always applied. REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>No 8-9 shift/harsh/soft/slipping</li> </ul> | <ul style="list-style-type: none"> <li>The C clutch may be damaged or worn. See condition C clutch does not apply. REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The B, E, F clutch may be slipping during the shift. See condition B, E, F clutch delayed/soft/slipping apply. REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing). REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The D clutch may not be releasing properly. See condition D clutch always applied. REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>No 9-10</li> </ul>                          | <ul style="list-style-type: none"> <li>CHECK D clutch for damage.</li> </ul>   |



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|  | shift/harsh/soft/slipping  | <p>REFER to: <a href="#">D Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</p> <ul style="list-style-type: none"> <li>The B, C, F clutch may be slipping during the shift. See condition B, C, F clutch delayed/soft/slipping apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The E clutch may not be releasing properly. See condition E clutch always applied.<br/>REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>Only gears R, 1, 2, 3, 4, 5, 6 available</li> <li>Only gears 7, 8, 9, 10 available</li> </ul>             | <ul style="list-style-type: none"> <li>The A clutch may not be releasing properly. See condition A clutch always applied.<br/>REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The A clutch assembly may be damaged or worn. See condition A clutch does not apply.<br/>REFER to: <a href="#">A Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>Only gears R, 8, 9, 10, M1, and M2 available</li> <li>Only gears 1, 2, 3, 4, 5, 6, 7 available</li> </ul> | <ul style="list-style-type: none"> <li>The B clutch may not be releasing properly. See condition Direct clutch always applied.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The B clutch assembly may be damaged or worn. See condition Direct clutch does not apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>Only gears 2, 3, 4, 5, 7, 9,</li> </ul>   | <ul style="list-style-type: none"> <li>The C clutch may not be releasing</li> </ul>  |

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|  | <ul style="list-style-type: none"> <li>10 available</li> <li>Only gears R, 1, 6, 8 available</li> </ul>                               | <p>properly. See condition C clutch always applied.<br/>REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</p> <ul style="list-style-type: none"> <li>The C clutch assembly may be damaged or worn. See condition C clutch does not apply.<br/>REFER to: <a href="#">C Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>Only gears R, 3, 4, 6, 7, 8, 10 available</li> <li>Only gears 1, 5, 9 available</li> </ul>     | <ul style="list-style-type: none"> <li>The F clutch may not be releasing properly. See condition Low reverse clutch always applied.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The E clutch assembly may be damaged or worn. See condition E clutch does not apply.<br/>REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>Only gears 1, 3, 5, 6, 7, 8, 9, available</li> <li>Only gears R, 2, 4, 10 available</li> </ul> | <ul style="list-style-type: none"> <li>The E clutch may not be releasing properly. See condition E clutch always applied.<br/>REFER to: <a href="#">E Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The E clutch assembly may be damaged or worn. See condition E clutch does not apply.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Only gears R, 4, 5, 6, 7, 8, 9, 10 available</li> <li>Only gears 1, 2, 3 available</li> </ul>  | <ul style="list-style-type: none"> <li>The F clutch may not be releasing properly. See condition F clutch always applied.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> <li>The F clutch assembly may be damaged or worn. See condition F clutch does not apply.<br/>REFER to: <a href="#">F Clutch</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>           |
|  | <ul style="list-style-type: none"> <li>No engine braking in M1 or M2</li> </ul>   | <ul style="list-style-type: none"> <li>The B clutch assembly may be damaged or worn. See condition B clutch does not apply.<br/>REFER to: <a href="#">B Clutch</a> (307-01 Automatic</li> </ul>  |

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|   |  | Transmission - 10-Speed Automatic<br>Transmission - 10R80, Diagnosis and Testing).  |
| <ul style="list-style-type: none"> <li>• Torque converter operation concerns</li> </ul> | <ul style="list-style-type: none"> <li>• No apply</li> </ul>                       | <ul style="list-style-type: none"> <li>• CHECK for <u>DTCs</u> related to torque converter concerns.</li> <li>• INSPECT the torque converter hydraulic circuits and regulator valve for damage or wear.<br/>REFER to: <a href="#">Main Control Valve Body</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).<br/>REFER to: <a href="#">Main Control Valve Body - Vehicles With: Auto-Start-Stop</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).<br/>REFER to: <a href="#">Torque Converter Clutch (TCC)</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|   | <ul style="list-style-type: none"> <li>• Always applied (engine stalls)</li> </ul> | <ul style="list-style-type: none"> <li>• CHECK for <u>DTCs</u> related to torque converter concerns.</li> <li>• INSPECT the torque converter hydraulic circuits and regulator valve for damage or wear.<br/>REFER to: <a href="#">Main Control Valve Body</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).<br/>REFER to: <a href="#">Main Control Valve Body - Vehicles With: Auto-Start-Stop</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Removal and Installation).<br/>REFER to: <a href="#">Torque Converter Clutch (TCC)</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul> |
|   | <ul style="list-style-type: none"> <li>• Cycling/shutter/chatter</li> </ul>        | <ul style="list-style-type: none"> <li>• CHECK for <u>DTCs</u> related to torque converter concerns.</li> <li>• CHECK the transmission fluid level.<br/>REFER to: <a href="#">Transmission Fluid Level Check</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, General Procedures).</li> <li>• INSPECT the torque converter hydraulic circuits and regulator valve for damage or wear.<br/>REFER to: <a href="#">Torque Converter Clutch (TCC)</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Other concerns</li> </ul>                      | <ul style="list-style-type: none"> <li>• Selector lever high effort</li> </ul>     | <ul style="list-style-type: none"> <li>• Selector lever cable routed wrong, binding or damaged.</li> </ul>  |

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|  |  | REFER to: <a href="#">Selector Lever Cable Adjustment</a> (307-05 Automatic Transmission External Controls, General Procedures).   |
|  | <ul style="list-style-type: none"> <li>No start <u>TR</u> indicates <u>R</u> when selector lever is in <u>P</u></li> </ul> | <ul style="list-style-type: none"> <li>Selector lever cable routed wrong, binding or damaged.<br/>REFER to: <a href="#">Selector Lever Cable Adjustment</a> (307-05 Automatic Transmission External Controls, General Procedures).</li> </ul>                          |
|  | <ul style="list-style-type: none"> <li>External leaks</li> </ul>   | <ul style="list-style-type: none"> <li>Damaged or worn seals.<br/>REFER to: <a href="#">Leakage Inspection</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>Noise</li> </ul>  | <ul style="list-style-type: none"> <li>Engine drive accessories, suspension, CV joints,<br/>REFER to: <a href="#">Noise, Vibration and Harshness (NVH)</a> (100-04 Noise, Vibration and Harshness, Diagnosis and Testing).</li> </ul>                                  |
|  | <ul style="list-style-type: none"> <li>Vibration</li> </ul>  | <ul style="list-style-type: none"> <li>Engine drive accessories, suspension, CV joints, transmission fluid cooler tubes,<br/>REFER to: <a href="#">Noise, Vibration and Harshness (NVH)</a> (100-04 Noise, Vibration and Harshness, Diagnosis and Testing).</li> </ul> |
|  | <ul style="list-style-type: none"> <li>No park range</li> </ul>  | <ul style="list-style-type: none"> <li>INSPECT the selector lever cable for correct adjustment.<br/>REFER to: <a href="#">Selector Lever Cable Adjustment</a> (307-05 Automatic Transmission External Controls, General Procedures).</li> </ul>                        |
|  |  | <ul style="list-style-type: none"> <li>INSPECT the manual control lever for damage, wear or correct installation.<br/>REFER to: <a href="#">Transmission</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).</li> </ul>           |
|  |  | <ul style="list-style-type: none"> <li>INSPECT the park pawl, park pawl actuator, for damage or wear.<br/>REFER to: <a href="#">Transmission</a> (307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80, Overhaul).</li> </ul>                       |
|  | <ul style="list-style-type: none"> <li>Overheating</li> </ul>  | <ul style="list-style-type: none"> <li>Transmission fluid cooling system damaged.<br/>REFER to: <a href="#">Transmission Cooling</a> (307-02 Transmission Cooling - 10-Speed Automatic Transmission - 10R80, Diagnosis and Testing).</li> </ul>                        |

