

### Diagnosis – Complaint Related Diagnostic Chart

Complaint/Problem	Possible cause	Test step/Remedy <sup>1)</sup>
<b>Customer complaint: Transmission does not shift into 5GR or 4GR (vague complaint)</b>	<b>Determine exact complaint by performing a test drive</b>	<b>11</b>
<b>Customer complaint: Transmission intermittently does not shift into 5GR</b>	Multiple 4-5 to 5-4 shifts occurring in a short period of time will delay the 5 GR upshift in order to prevent thermal overload of the overdrive brake.	Normal operation of the transmission overload protection
<b>Model 140 with LH-SFI only</b> Transmission shifts into 5GR only under WOT	Vacuum line from intake manifold and DI control module (N1/3) not connected or leaking.	Re-connect or replace vacuum line
Transmission shifts 3 → 5, DTC 9	Valve block connector (Y3/1x1) on transmission not reconnected after repair work with engine speed > 1000 rpm	Erase DTC 9 If DTC 9 reappears 23 ⇒ 9.0
Transmission occasionally does not shift into 5GR	Loose contact on 5-speed AT/engine connector (X22/5)	Repair loose contact
<b>Model 140 with HFM-SFI only</b> Transmission does not shift into 5GR , DTC 5	Wrong TCM (N15/1) installed	Verify and install correct TCM (N15/1)
Hard shifting 4 → 5 or 5 → 4 or hunts 4 → 5 → 4	Valve block control valve (Y31y2) defective (resistance)	Replace Y3/1y2

1) Observe Preparation for Test, see 22.