

## NO.2 TIGHT CORNER BRAKING

id030300800500

<b>2</b>	<b>Tight corner braking</b>
<b>[TROUBLESHOOTING HINTS]</b> <ul style="list-style-type: none"> <li>• Because the coupling component locks up easily (similar to direct 4WD), rotational difference between the front and rear wheels cannot be absorbed and brake-like phenomenon occurs.</li> <li>• Due to the coupling component construction, slight tight corner braking effect occurs during tight cornering on a paved road. (4WD system is okay. Compare with another same model vehicle to determine malfunction.)</li> <li>• Coupling component malfunction</li> <li>• 4WD solenoid malfunction</li> </ul>	

### Diagnostic procedure

STEP	INSPECTION	ACTION	
1	<b>VERIFY DSC, PCM, TCM (ATX), INSTRUMENT CLUSTER, EPS, AND 4WD SYSTEM DTCS</b> <ul style="list-style-type: none"> <li>• Verify DSC, PCM, TCM (ATX), instrument cluster, EPS, and 4WD system DTCs using the M-MDS.</li> <li>• Are there any DTCs present?</li> </ul>	Yes	Go to applicable DTC inspection.
		No	Go to next step.
2	<b>VERIFY TIRE AIR PRESSURE</b> <ul style="list-style-type: none"> <li>• Inspect tire air pressure.</li> <li>• Is it within specification?</li> </ul>	Yes	Go to next step.
		No	Adjust tire air pressure, then go to next step.
3	<b>INSPECT ABS WHEEL-SPEED SENSOR</b> <ul style="list-style-type: none"> <li>• Inspect ABS wheel-speed sensor.</li> <li>• Is it okay?</li> </ul>	Yes	Go to next step.
		No	Repair or replace malfunctioning part.
4	<b>COMPARE WITH SAME MODEL VEHICLE</b> <ul style="list-style-type: none"> <li>• Perform simulation driving with another same model vehicle.</li> <li>• Does malfunction recur on the same model vehicle?</li> </ul>	Yes	4WD system is okay.
		No	Go to next step.
5	<b>TRY TO REPRODUCE MALFUNCTION BY DRIVING VEHICLE WITH AWD SOLENOID CONNECTOR DISCONNECTED</b> <ul style="list-style-type: none"> <li>• Switch the ignition off.</li> <li>• Disconnect the 4WD solenoid connector.</li> <li>• Try to reproduce the malfunction by driving the vehicle.</li> <li>• Connect the 4WD solenoid connector.</li> <li>• Clear the DTC.</li> <li>(See ELECTRONIC 4WD CONTROL SYSTEM ON-BOARD DIAGNOSIS.)</li> <li>• Does the malfunction recur?</li> </ul>	Yes	Replace coupling component. (See COUPLING COMPONENT REMOVAL/ INSTALLATION.)
		No	Go to next step.
6	<b>INSPECT 4WD SOLENOID</b> <ul style="list-style-type: none"> <li>• Inspect 4WD solenoid.</li> <li>(See 4WD SOLENOID INSPECTION.)</li> <li>• Is it okay?</li> </ul>	Yes	Inspect harness between 4WD solenoid and 4WD CM, then go to next step.
		No	Replace coupling component. (See COUPLING COMPONENT REMOVAL/ INSTALLATION.)