

NO.1 FREQUENT FRONT WHEEL SLIP

id030300800400

1	Frequent front wheel slip
[TROUBLESHOOTING HINTS] <ul style="list-style-type: none"> • Tire traction performance is extremely poor for given road friction. (4WD system is normal.) • Improper wheel alignment (4WD system is normal.) • Rear differential oil temperature is extremely high (Fail-safe condition) • Differential oil temperature sensor malfunction (Fail-safe condition) • Compare slip frequency with another vehicle of the same model (under the same road conditions and tire traction performance). • Replace tires with others of the same model and perform test under the same road conditions to determine if the malfunction was caused by tire traction performance. • Coupling component malfunction • 4WD solenoid malfunction 	

Warning

- During simulation driving, vehicle stability may decrease extremely and cause an accident. Be sure to perform the simulation test driving in a safe area.

Diagnostic procedure

STEP	INSPECTION	ACTION
1	VERIFY DSC, PCM, TCM, INSTRUMENT CLUSTER, EPS, AND 4WD SYSTEM DTCs <ul style="list-style-type: none"> • Verify DSC, PCM, TCM (ATX), instrument cluster, EPS and 4WD system DTCs using the M-MDS. • Are there any DTCs present? 	Yes Go to applicable DTC inspection.
		No Go to next step.
2	VERIFY TIRE AIR PRESSURE <ul style="list-style-type: none"> • Inspect tire air pressure. • Is it within specification? 	Yes Go to next step.
		No Adjust tire air pressure, then go to next step.
3	COMPARE WITH SAME MODEL TIRES <ul style="list-style-type: none"> • Install tires of the same model. • Perform simulation driving. • Does malfunction recur? 	Yes Go to next step.
		No 4WD system is okay.
4	COMPARE WITH SAME MODEL VEHICLE <ul style="list-style-type: none"> • Install tires of malfunctioning vehicle to another same model vehicle. • Perform simulation driving. • Does malfunction recur? 	Yes 4WD system is okay.
		No Go to next step.
5	INSPECT 4WD SOLENOID <ul style="list-style-type: none"> • Inspect 4WD solenoid. (See 4WD SOLENOID INSPECTION.) • Is coupling component solenoid okay? 	Yes Inspect harness between 4WD solenoid and 4WD CM, then go to next step.
		No Replace coupling component. (See COUPLING COMPONENT REMOVAL/ INSTALLATION.)
6	INSPECT WHEEL ALIGNMENT <ul style="list-style-type: none"> • Inspect wheel alignment. • Is it okay? 	Yes Replace coupling component. (See COUPLING COMPONENT REMOVAL/ INSTALLATION.)
		No Inspect wheel alignment, and adjust it if necessary.