

11. General Diagnostics Table

⊙: Primary expected causes ○: Secondary expected causes

Symptoms	Trouble conditions	Hydraulic unit				P valve	Master cylinder	Calipers and piston	Pad	Rotor	Hand brake	Piping	Mixture of air	Brake booster and check valve	Axle and wheel	Alignment	Play of pedal	Rough road surface	Semicylindrical road surface	Loose or worn suspension	Tire	Wrong connection and wiring	Stroke sensor	
		Solenoid valve	Motor	Mount bush	Speed sensor																			
ABS function	Directional stability cannot be obtained when braking.	Vehicle turns to right or left.	⊙			⊙	○		⊙	⊙	○			○	⊙						⊙	⊙		
		Vehicle spins.	⊙			⊙	○		○	⊙												⊙	⊙	
	Out-of-order brakes	Long braking distance	⊙	○		○	○	○	○	⊙	○		○	⊙	○							⊙	⊙	
		Brakes lock.	⊙	○		⊙	○		○			○											⊙	
		Brakes drag.	⊙			⊙	○	⊙	⊙	○		⊙	○		⊙		⊙							
		Long pedal stroke	○				○	○	○				○	⊙	○		○							
		Abnormal vehicle pitching	○			○												⊙		⊙			⊙	
Unstable braking force. One-side brake refuses to work.	⊙			⊙		○	⊙	⊙	○		○			○	○		⊙	○	○	⊙	⊙	⊙		
TCS function	When accelerating abruptly, directional stability cannot be obtained when traveling on a slippery road surface.	Vehicle moves unsteadily.	⊙			⊙		⊙	⊙			○			⊙		⊙		○	⊙	⊙	⊙		
		Handle refuses to work.	⊙			⊙		⊙	⊙			○									⊙	⊙		
		Handle loses control.	⊙			⊙		⊙	⊙	○		○				○		⊙	○	○	⊙	⊙	⊙	
Bad acceleration, engine stalling (In addition to the causes listed here, check the ECM specifications.)	Engine stalls. Engine speed fails to increase.	⊙			⊙		⊙	⊙			○											⊙		
	Engine speed increases suddenly.	⊙			⊙		⊙	⊙	○	⊙	○	⊙										⊙	⊙	
Vibration occurs and abnormal noise is produced. ● When applying brakes abruptly. ● When accelerating abruptly. ● When driving on a slippery road surface.	Brake pedal heavily vibrates when applying brakes.	○	○			○							○				⊙		○		⊙	⊙		
	Loud hydraulic unit operating noise	○	○	⊙	⊙						⊙													
	Noise is produced from front of vehicle.	○		⊙	⊙		⊙	⊙	⊙	⊙		⊙		⊙	○				⊙	○				
	Noise is produced from rear of vehicle.				⊙		⊙	⊙	⊙	⊙	⊙			○					⊙	○				

NOTE:
This list includes no engine failure and transmission failure.