11. General Diagnostics Table

A: SYMPTOMS AND PROBABLE CAUSES

Symptom		Probable faulty units/parts
Vehicle instability during braking	Vehicle pulls to either side.	 ABSCM&H/U (solenoid valve) ABS sensor Brake (caliper & piston, pads) Wheel alignment Tire specifications, tire wear and air pressures Incorrect wiring or piping connections Road surface (uneven, camber)
	Vehicle spins.	 ABSCM&H/U (solenoid valve) ABS sensor Brake (pads) Tire specifications, tire wear and air pressures Incorrect wiring or piping connections
Poor braking	Long braking/stopping distance	 ABSCM&H/U (solenoid valve) Brake (pads) Air in brake line Tire specifications, tire wear and air pressures Incorrect wiring or piping connections
	Wheel locks.	 ABSCM&H/U (solenoid valve, motor) ABS sensor Incorrect wiring or piping connections
	Brake dragging	 ABSCM&H/U (solenoid valve) ABS sensor Master cylinder Brake (caliper & piston) Parking brake Axle & wheels Brake pedal play
	Long brake pedal stroke	Air in brake line Brake pedal play
	Vehicle pitching	 Suspension play or fatigue (reduced damping) Incorrect wiring or piping connections Road surface (uneven)
	Unstable or uneven braking	 ABSCM&H/U (solenoid valve) ABS sensor Brake (caliper & piston, pads) Tire specifications, tire wear and air pressures Incorrect wiring or piping connections Road surface (uneven)
Vibration and/or noise (while driving on slippery roads)	Excessive pedal vibration	Incorrect wiring or piping connectionsRoad surface (uneven)
	Noise from ABSCM&H/U	ABSCM&H/U (mount bushing)ABS sensorBrake piping
	Noise from front of vehicle	 ABSCM&H/U (mount bushing) ABS sensor Master cylinder Brake (caliper & piston, pads, rotor) Brake piping Brake booster & check valve Suspension play or fatigue
	Noise from rear of vehicle	 ABS sensor Brake (caliper & piston, pads, rotor) Parking brake Brake piping Suspension play or fatigue

B: CHECKING THE HYDRAULIC UNIT OPERATION

11B1: PREPARING THE BRAKE TESTER.

(CHECK): Is the brake tester available?

: CHECKING THE HYDRAULIC UNIT ABS OPERATION WITH BRAKE

TESTER. <Ref. to 4-4 [W15D2].>

NO : CHECKING THE HYDRAULIC UNIT ABS OPERATION BY PRESSURE

GAUGE. <Ref. to 4-4 [W15D1].>

MEMO: