

PROBLEM SYMPTOMS TABLE

When the malfunction is not confirmed in the diagnostic trouble code check and the problem still cannot be confirmed in the basic inspection, use this table and troubleshoot according to the priority order given below.

Symptom	Suspect Area	See Page
Engine does not crank (Does not start)	1. Starter 2. Starter relay 3. Engine coolant temperature sensor	* * *
Difficult to start with cold engine	1. STA signal circuit 2. Injector 3. Fuel filter 4. Compression 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Intake shutter (throttle valve) 9. Glow system	* * * * * * * *
Difficult to start with warm engine	1. STA signal circuit 2. Injector 3. Fuel filter 4. Compression 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Intake shutter (throttle valve)	* * * * * * *
Engine stalls soon after starting	1. Fuel filter 2. Injector 3. ECM power source circuit 4. ECM 5. Supply pump 6. Fuel pressure sensor 7. Intake shutter (throttle valve)	* * * * * * *
Engine stalls (Other than the condition listed above)	1. ECM power source circuit 2. Injector 3. ECM 4. Supply pump 5. Fuel pressure sensor 6. Intake shutter (throttle valve)	05-570 * * * * *
Abnormal initial idling (Poor idling)	1. Fuel filter 2. Injector 3. ECM 4. Supply pump 5. Fuel pressure sensor	* * * * *
High engine idling speed (Poor idling)	1. A/C signal circuit 2. Injector 3. STA signal circuit 4. ECM 5. Supply pump 6. Fuel pressure sensor	* * * * * *

Symptom	Suspect Area	See Page
Low engine idling speed (Poor idling)	1. A/C signal circuit 2. Injector 3. EGR system 4. Compression 5. Valve clearance 6. Fuel line (Air bleeding) 7. ECM 8. Supply pump 9. Fuel pressure sensor 10. Intake shutter (throttle valve)	* * * * * * * * * *
Rough idling (Poor idling)	1. Injector 2. Fuel line (Air bleeding) 3. EGR system 4. Compression 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Intake shutter (throttle valve)	* * * * * * * * *
Hunting at hot engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air bleeding) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Intake shutter (throttle valve)	* 05-570 * * * * * * *
Hunting at cold engine (Poor idling)	1. Injector 2. ECM power source circuit 3. Compression 4. Fuel line (Air bleeding) 5. Valve clearance 6. ECM 7. Supply pump 8. Fuel pressure sensor 9. Intake shutter (throttle valve)	* 05-570 * * * * * * *
Hesitation/ Poor acceleration (Poor driveability)	1. Injector 2. Fuel filter 3. EGR system 4. Compression 5. ECM 6. Supply pump 7. Fuel pressure sensor 8. Intake shutter (throttle valve)	* * * * * * * *
Knocking (Poor driveability)	1. Injector 2. EGR system 3. ECM 4. Supply pump 5. Fuel pressure sensor	* * * * *
Black smoke (Poor driveability)	1. Injector 2. EGR system 3. ECM 4. Supply pump 5. Fuel pressure sensor 6. Intake shutter (throttle valve)	* * * * * *

DIAGNOSTICS – ECD SYSTEM (1CD-FTV)

Symptom	Suspect Area	See Page
White smoke emitted (Poor driveability)	1. EGR system	*
	2. Injector	*
	3. Fuel filter	*
	4. ECM	*
	5. Supply pump	*
	6. Fuel pressure sensor	*
	7. Intake shutter (throttle valve)	*
Surging/ Hunting (Poor driveability)	1. Injector	*
	2. ECM	*
	3. Supply pump	*
	4. Fuel pressure sensor	*

*: See page 05-168 of Pub. No. RM864E AVENSIS VERSO/ PICNIC REPAIR MANUAL.