## **TROUBLESHOOTING**

When the malfunction code is not confirmed in the diagnostic trouble code check and the problem still cannot be confirmed in the basic inspection, then proceed to this step and perform troubleshooting to the numbers in the order given in the table below.

	See page	IG-5	IG-5	EG1-212	EG1-131,1 [49 or 167	EG1-129. 147 or 165	EG1-129, 147 or 165	EG1-127, 145 or 163	EG1-132, 150 or 168		I	ı	EG1-177	EG1-186	EG1-192	EG1-187	EG1-183 or 208	ı
	Suspect area	gnal	Circuit	xygen	Engine Coolant EG1-131,1 Temp. Sensor Circuit <sup>49</sup> or 167	Intake Air Temp. Sensor Circuit	Air Flow rcuit	Throttle Position Sensor Circuit	ynal	Sensor	vitch Circuit	nal	duı	essure tor	səu	ş	art	Valve
	Symptom	RPM Signal Circuit	Ignition Circuit	Main O Sensor	Engine ( Temp. S	Intake Air Tem Sensor Circuit	Volume Air Flow Meter Circuit	Throttle Positic Sensor Circuit	STA Signal Circuit	Knock Sensor Circuit	PNP Switch Signal Circuit	A/C Signal Circuit	Fuel Pump	Fuel Pressure Regulator	Fuel Lines	Injectors	Cold Start System	Idle Air Control Valve
	Engine does not crank											ļ				<u> </u>	<u> </u>	ļ
Does not start	Starter runs – engine does not crank																	
Does start	No initial combustion	12	2	<u> </u>			5						6	<u> </u>		<u> </u>	13	8
ot o	No complete combustion				4		1							3	<u> </u>	9	10	2
	Engine cranks slowly											2		<u> </u>		ļ	ļ	<u> </u>
벌티	Under normal condition	12	13		4	14							7	6	8	16	17	3
Difficult to start	Cold engine				1	6			2				8	7	9	10	5	4
으 의	Hot engine				1	5							8	7	9	10	6	3
	Incorrect first idle				3									<u> </u>				4
ug	High engine idle speed				4	6		7			9	8				10	11	5
Poor idling	Low engine idle speed				1		4									5		2
ρ	Rough idling		18		2		12						7	6	8	16	17	9
P	Misfire		4		6		8									9	10	
ty	Hesitation Poor acceleration			12	10	11	9	8					14	13	15	18	19	
	Back fire			6	3	7	5	4					9	8	10	11		
Poor drivability	Muffler explosion (after fire)			8	3	7	5	6						4		9	10	
8	Serging													1		4		
	Knocking									1								
	Soon after starting				8		7						3	2	4	9	10	6
tall	After accelerator pedal depressed						1	3						5	6	7		
Engine stall	After accelerator pedal released						3											1
🗓	During A/C operation											1						2
	When N to D shift										1							2
	Poor fuel economy			21	16	22	18	17			19	20				14	15	
	Engine overheat									9								
	Engine overcool																	
ا پر ا	Excessive oil consumption																	
Others	Low oil pressure																	
동	High oil pressure														-			
	Starter keeps running																	
	Battery often discharges																	

HINT: When inspecting a wire harness or circuit, the electrical wiring diagrams at the end of repair manual should be referred to and the circuits of related systems also should be checked.

	See page	EG1-198	EG1-199	CL section	EG1-14	MA-11	EG1-39	EG1-39	EG1-226	EG1-23	EG1-238	EG1-51	EG1-54	EG1-21	EG1-58	1	EG1-229
	Suspect area	ot	Throttle Opener		ession	Valve Clearance	iming	Belt	dwn	Valve Stem Guide Bushing	dι	Connecting Rod Bearing	haft J	<u>_</u>	Ring	el or late	or and or Cap
	Symptom	Dash Pot	Throttle	Clutch	Compression	Valve C	Valve Timing	Timing Belt	Water Pump	Valve S Guide I	Oil Pump	Connec Bearing	Cranks Bearing	Cylinder Head	Piston Ring	Flywheel or Drive Plate	Radiator and Radiator Cap
	Engine does not crank																
Does not start	Starter runs – engine does not crank															2	
Does start	No initial combustion	<u> </u>			9		10	11	ļ.,	ļ		ļ			<u> </u>		
	No complete combustion	<b>-</b>	ļ		5		7	8		<u> </u>				ļ <u>.</u>	6		
<u>+</u> +	Engine cranks slowly Under normal condition				_		11					3	4	l	10	-	
Difficult to start	Cold engine	<u> </u>	-		9		11			<del>                                     </del>					10	-	$\vdash \dashv$
Diff to s	Hot engine	<b>-</b>					<b>-</b>					ļi			<u> </u>		
	Incorrect first idle	2	3	<del> </del>				· · · · · · ·	<b></b> -			-					
βί	High engine idle speed	2	-	<del> </del>													
ij	Low engine idle speed																
Poor idling	Rough idling				10	13	14	15						20	11		
Po	Misfire				7												
ty	Hesitation Poor acceleration			1	7	16	17										
pilliqu	Back fire	<u></u>		L	<u> </u>	ļ	2			ļ	L	<u> </u>	<u> </u>				
Poor drivability	Muffler explosion (after fire)						2								<u></u>		
8	Serging	<u> </u>				ļ	ļ		L	ļ	<u> </u>	ļ				<u> </u>	
	Knocking		ļ			ļ	5		9	ļ	ļ		<b> </b>			<u> </u>	6
	Soon after starting																
stall	After accelerator pedal depressed																
Engine stall	After accelerator pedal released																
<u> </u>	During A/C operation																
	When N to D shift																
	Poor fuel economy	4		5	11		13	<u> </u>	<u> </u>			<u> </u>			12		
	Engine overheat		<u> </u>		ļ		7	5	6	ļ	10	<u> </u>		11	<u> </u>	<u> </u>	3
	Engine overcool	L		<u> </u>		<u> </u>	<u> </u>		ļ	<b> </b>	ļ	<u> </u>	ļ <u>.</u>	<u> </u>	ļ	<b> </b>	
က္	Excessive oil consumption				3	<u> </u>		ļ	ļ	2	<u> </u>	ļ		5	4		$\vdash$
Others	Low oil pressure		<del> </del>		<u> </u>						2	3	4		<u> </u>	ļ	
ō	High oil pressure	<u> </u>	<del> </del>	<b> </b>		<del> </del>			<b></b>	<u> </u>	1		<b> </b>		<del> </del>		
	Starter keeps running	├		<del> </del>		ļ	<del> </del>	<del> </del>	<del> </del>		<del> </del>	<del> </del>	<u> </u>	<del> </del>		<del> </del>	$\vdash$
	Battery often discharges		1	<u> </u>	L	L	<u> </u>	<u> </u>	L	<u> </u>	L	<u> </u>	L	L	<u> </u>	L	

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$\perp$		1		2	4							8																	Thermostat	EG1-228
_	$\perp$																											1 1	Drive Belt	CH section
				ω	13																								Engine Coolant Temp. Sender Gauge	BE section
	N	5																											Oil Pressure Switch	BE section
N				_																									Generator	CH section
			6		12																							ł	1 *	EG1-55
		_			ļ 																						3	ĺ	EFI Main Relay	EG1-206
																											4		Circuit Opening Relay	EG1-207
						8								-															Fuel Cut System	EG1–219
																						4							Fuel Pressure Control System	EG1-210
	_			_			3	ပ	4	00	11	10	51	=	12	20	11	19	6	12	57	=	3	<del>1</del> 8		11	14		ECM	EG1–215
						2					1	2				ω		_				2	ω	-			7		Fuel Quality	_
			_				-																						Fuel Leakage	_
					_																								Coolant Leakage	EG1-225
	_	-	-	_												_													Oil Leakage	EG1-235
-	•	$\perp$		-	_																							 1	Starter Relay	ST section
	_	_		_								!																 ω	PNP Switch or Clutch Start SW	AT or CL section
1	<u>\</u>	$\perp$	_	L	_																				_			 N	Starter	ST section
	_	_	igspace	<u> </u>	8	9				4		ω	2			<b>О</b> Т.	ω	4						2					Spark Plug	IG-6
		1	_		_	10							ω			6	5	5						15					Distributor	IG-7
	_	_	_	_	igg	7			2	2	ப	4			_	4	2	ω	ω					5	$\rfloor$			 1	EGR System	EG1-88 or 92
	_	$\perp$	-			ω									_					_									Accelerator Pedal Link	
						6										2													Brakes drag even when released	_