TROUBLESHOOTING

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

	See page	IG-16	IG-16	EG2-199	EG2-192	EG2-190	EG2-190	EG2-18\$	EG2-193		EG2-193	I	EG2-202	EG2-212	EG2-160	EG2-220	EG2-247	1
	Suspect area Symptom	RPM Signal Circuit	Ignition Circuit	Heated Oxygen Sensor Circuit	Engine Coolant emp Sensor	Intake Air Temp. Sensor Circuit	Volume Air Flow Meter Circuit	Throttle Position Sensor Circuit	STA Signal Circuit	Knock Sensor Circuit	PNP Signal Circuit	A/C Signal Circuit	Fuel Pump	Fuel Pressure Regulator	Fuel Lines	injectors	Cold Start System	Idle Speed Control Valve
		20	ĵ.	ΞÖ	Engi Tem	⊆ S	žΣ	<u>⊢</u> છ	လ	ΧO	4 O	∢0		шш			0 0	-
	Engine does not crank																	
Does not start	Starter runs – engine does not crank																	
oes art	No initial combustion	12	2				5						6				13	8
St D	(Vv complete combustion				4		1							3		9	10	2
	Engine cranks slowly								<u>'</u>			2						
를 달	Under normal conditions	12	13		4	14							7	6	8	16	17	3
Difficult to start	Cold engine				1	6			2				8	7	9	10	5 6	3
□ ₽	Hot engine				1	5							8		9	10	0	4
	Incorrect first idle			ļ	3			7			9	8				10	11	5
βu	High engine idle speed			<u> </u>	4	6	4				9_	- 0				5		2
ille	Low engine idle speed		18	ļ	2		12						7	6	8	16	17	9
Poor idling	Rough idling Misfire		4		6		8							Ť		9	10	
<u> </u>	Hesitation		-	12	10	11	9	8					14	13	15	18	19	
	Poor acceleration												9	8	10	11		
ility	Back fire			6	3	7	5	4					9	l °	-0		<u> </u>	
Poor drivability	Muffler explosion rafter fire			8	3	7	5	6						4		9	10	
or or	Surging			L										1_		4	<u> </u>	
ď	Knocking									1								$\vdash - \vdash$
	Engine stall soon after starting				8		7						3	2	4	9	10	6
<u>=</u>	After accelerator pedal depressed						1	3						5	6	7		
Engine stall	After accelerator pedal released						3											1
E	During A/C operation											1		<u> </u>				2
	When N to D shift										1							2
	Poor fuel economy			21	16	22	18	17			19	20				14	15	
	Engine overheat									9			ļ <u>.</u>	 	<u> </u>	-	-	$\vdash \vdash \vdash$
	Engine overcool			<u> </u>		ļ				ļ	<u>. </u>						<u> </u>	
1,,	Excessive oil consumption	<u> </u>	ļ	 	ļ					<u> </u>				 			 	
Others	Low oil pressure			 						<u> </u>				 -			 	$\vdash \vdash \vdash$
۱ ۶	High oil pressure	ļ					L	ļ										
1	Starter keeps running	ļ		<u> </u>	ļ				_	<u> </u>	ļ						-	
	Battery often discharge		L	<u> </u>		L	L	L	L	<u> </u>	<u></u>	L	L	L	L	L	L	

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.

																											ω		Γ	EFI Main Relay	EG2-245
																											4			Circuit Opening Relay	EG2-246
						8																						2		Fuel Cut System	EG2-257
																						4								Fuel Pressure Control System	EG2-249
				_	_		ω	ω	4	<u></u>	=	ō	5	1	12	20	=	19	6	12	51	=	=	18		11	14			Engine Control Module	EG2-254
						2					_	12				ω	_	_				N	ω				7			Fuel Quality	_
						_																								Fuel Leakage	_
		<u>. </u>			-								L.																	Engine Coolant Leakage	_
																														Oil Leakage	_
_																													_	Starter Relay	ST-13
							ļ																						ω	PNP SW or Clutch Start SW	AT 83,14
2																									1			1	2	Starter	ST-2
					∞	9				4		ω	2			5	3	4						2						Spark Plug	IG-20
						ō							ω			6	5	5						15			1			Distributor	IG-23
						7			N	N	σı	4			-	4	2	3	ω					5						EGR System	EG2-148
	_					ω															-									Accelerator Pedal Link	_
						6										2														Brakes drag even when released	
1				-	2						,	7																		Cooling Fan System	
						4														2	2									Dash Pot	EG2-237
\downarrow																					ω									Throttle Opener	EG2-238
						5										-														Clutch	CL-1
\perp			ω			=										7	7	0						စ		51	9			Compression	EG2-30
																16		13												Valve Clearance	EG2-18

	See page	EG2-46	EG2-38	EG2-265	EG2-65	EG2-280	EG2-99	EG2-102	EG2-64	EG2-110		EG2-269	EG2-268	CH-2	BE-36	BE-37	CH-5	EG2-106
	Suspect area Symptom	Valve Timing	Timing Belt	Water Pump	Valve Stem Guide Bushing		Connecting Rod Bearing	Crankshaft Bearing	Cylinder Head	Piston Ring	Flywheel or Drive Plate	Radiator and Radiator Cap	Thermostat	Dive Belt	Engine Coolant Temp. Sender Gauge	Oil Pressure Switch	Generator	Cylinder Block
-	Engine does not crank		 				ОШ	<u> </u>										
Does not sta rt	Starter runs – engine does not crank										2							
oes a rt	No initial combustion	10	11											<u> </u>	├-			
St D	No complete combustion	7	8							6					 			
	Engine cranks slowly	-	<u> </u>				3_	4		10				 				
Difficult to start	Under normal conditions	11	 							10				_	-			
斯C S O	Cold engine Hot engine																****	
-	incorrect first idle				 									-	[
	Nigh engine idle speed	 			l													
Poor idling	Low engine idle speed	-																
r id	Rough idling	14	15						20	11					ļ			
Poc	Misfire														ļ			
	Hesitation Poor acceleration	17																
iity	Back fire	2					ļ		<u> </u>	L	ļ			ļ	 			
Poor drivability	Muffler explosion (after fire)	2																
00	Surging		ļ	<u> </u>	ļ		↓			ļ		_	_			 		
	Knocking	5	ļ	9			ļ				 	6	8	 	 			
	Engine stall soon after starting													_	ļ 			
₌	After accelerator pedal depressed																	ļ
Engine stall	After accelerator pedal released																	
Eng	During A/C operation						<u> </u>			L	_				_	 	 	
	When N to D shift			ļ	<u> </u>				<u> </u>	ļ	 		<u> </u>	├	 		 	
	Poor fuel economy	13			ļ	ļ	 	ļ	<u> </u>	12	+-	 		├	12		-	12
1	Engine overheat	7	5	6	ļ	10	 	ļ	11		-	3	2	 	13	+	 	'-
	Engine overcool	 	 		 	ļ	 		+-	4	+	 	12	 	+3			6
,s	Excessive oil consumption	<u> </u>	 	 	2	 _	+	-	5	+	 	 	-	 	+-	5	 	† <u> </u>
Others	Low oil pressure	├	ļ	 	 	2	3	4	 		+		 			2	Switch	
Įδ	High oil pressure	 	-	-	 	1	+		 	_	+		 	 	<u> </u>	T =	 	
	Starter keeps running	 -	+	-	 			 	 	-	1-			1	T^{-}	1	2	
L	Battery often discharge	J	1	<u> </u>		<u> </u>	ــــــــــــــــــــــــــــــــــــــ	1		Ь—								