TROUBLESHOOTING

Use the below to help you find the cause of the problem.

The numbers indicate the priority of the likely cause of the problem. Check each part in order. If necessary, replace these parts.

	See page	IG-4	IG-4	EG1-197	EG1-134, 151	EG1-131, 150	EG1-131, 151	EG1-130,		1	ı	ı	EG1-163	EG1-172	EG1-178	EG1-174		EG1-169, 193
	Suspect area	Sirouit	<u>i</u> t	len Sensor	ant temp. it	np. Sensor	low Meter	ion Sensor	ircuit	or Circuit	Sircuit	Sircuit		e Regulator			stem	Valve
	Symptom	RPM Signal Circuit	Ignition Circuit	Heated Oxygen Sensor Circuit	Engine Coolant temp. Sensor Circuit	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	Auxiliary Air Valve
	Engine does not crank																	
Does not start	Starter runs – engine does							l										
Does start	not crank No initial combustion	12	2				5			 			6		-	 	13	8
St D	No complete combustion	,-	_		4		1			 -			<u> </u>	3		9	10	2
—	Engine cranks slowly											2			_	<u> </u>		
اے یا	Engine cranks normally	12	13		4	14							7	6	8	16	17	3
Difficult to start	Cold engine				1	6			2				8	7	9	10	5	4
Difficult to start	Hot engine				1	5							8	7	9	10	6	3
	Incorrect first idle				3													4
Poor idling	Nigh engine idle speed				4	6		7			9	8				10	11	5
j.	Low engine idle speed				1		4									5		2
00	Rough idling		18		2		12						7	6	8	16	17	9
	Misfire		4		6		8									9	10	
	Hesitant acceleration			12	10	11	9	8					14	13	15	18	19	
Poor driveability	Backfire			6	3	7	5	4					9	8	10	11		
ab	Muffler explosion (after fire			8	3	7	5	6						4		9	10	
Poor drive	Surging													1		4		
₫ ₽	Knocking									1								
	Engine after starting				8		7					٠	3	2	4	9	10	6
tall	After accelerator pedal depressed						1	3						5	6	7		
Engine stall	After accelerator pedal released						3											1
lng.	During A/C operation											1						2
إــــــــــــــــــــــــــــــــــــــ	When shifting N to D										1							2
	Poor fuel economy			21	16	22	18	17			19	20				14	15	
	Engine overheat									9								
	Engine overcool																	
ည	Excessive oil consumption																	
Others	Low oil pressure	-																
Ō	High oil pressure		-					-+										
	Starter keeps running																	
	Battery often discharge	1					1		i						اـــــا			

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

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	See page	EG1-19	EG1-192	EG1-205	EG1-195	EG1-201	-	1	ı	1	ST-15	CL-Se	ST-4	9 - 91	1G-8	EG1-91	'	ı
	Suspect area	in	Circuit Opening Relay	Fuel Cut System	Fuel Pressure Control S %em	Engine Control Module	ıality	akage	Engine Coolant Leakage	kage	Relay	PNP SW or Clutch Start SW		gnlc	ıtor	ystem	ator .ink	Brakes Drag Eve. n When Released
	Symptom	EFI Main Relay	Circuit Relay	Fuel Cu	Fuel Pr Control	Engine Module	Fuel Quality	Fuel Leakage	Engine Leakag	Oil Leakage	Starter Relay	PNP SI Clutch	Starter	Spark Plug	Distributor	EGR System	Accelerator Pedal Link	Brakes When F
	Engine does not crank										1	3	2					
Does not start	Starter runs – engine does not crank												1					
Doe	No combustion	3	4			14	7								1			
	No complete combustion					11												
	Engine cranks slowly												1					
at la	Engine cranks normally					18	1							2	15	5		
Difficult to start	Cold engine					11	3											
	Hot engine			,	4	11	2											
	Incorrect first idle					5											1	
ا ق	High engine idle speed					12								<u></u>		<u> </u>	1	
Poor idling	Low engine idle speed					6										1		
ğ	Rough idling					19	1							4	5	3		
٦ آ	Misfire					11	1				L			3	5	2		
	Hesitant acceleration					20	3							5	6	4		2
∰	Backfire					12										1		
Poor driveability	Muffler explosion (after fire)			1		11								_				
٦	Surging					5						,		2	3			
ŏ	Knocking					10	2							3		4		
	Soon after starting					11	1									5		
 	After accelerator pedal depressed					8								4		2		
Engine stall	After accelerator pedal released					4										2		
lug [During A/C operation					3												
	When shifting N to D					3												
	Poor fuel economy			8			2	1						9	10	7	3	6
[Engine overheat								1					1				
	Engine overcool																	
_s [Excessive oil consumption									1								
Others	Low oil pressure									1								
ō	High oil pressure																	
	Starter keeps running										1		2					
1 [Battery often discharges																	

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	\downarrow	\downarrow			-	2					ļ-^-		7																	Cooling Fan System	
	\perp	1					4														2	2								Dash Pot	EG1-18
																						ω								Throttle Opener	EG1-18
							5										1													Clutch	CL Sec.
				ω			11										7	7	5						ဖ	1	5	မ		Compression	EG1-14
																	16		13											Valve Clearance	EG1-13
						7	13				·		5		2	2	17		14						=		7	10		Valve Timing	EG1-38
						5												Γ	15								œ	11		Tithing Belt	EG1-38
						6							9					T	T	T			1			1				Water Pump	EG1-21
				2									<u> </u>				·····•						7		1					Valve Stem	EG1-23
	1	_	2										<u> </u>			T		T		T			\dashv	7	1					Guide Bushing Oil Pump	EG1-22
	1	7	ω			10							<u> </u>			T							1	1		ω				Connecting Rod	EG1–5
	1	1	4										T					T		\vdash			7	7		4				Bearing Crankshaft	EG1–54
		1		5		11												T	20	<u> </u>			1	1	1	1				Bearing Cylinder	EG1-2
	1	1	1	4			12											T	=				\dashv	1	5	1	6			Head Piston Ring	EG1-5
	1	1	1					_										T	 -	T			\dashv	1	1	7			2	Flywheel or	_
	7	7	1			ဒ							6		-			T					1		1	1				Drive Plate Radiator and	EG1–2°
	1	1	1	1	2	4							8					T					1	1	1	1				Radiator Cap Thermostat	†
-	1	1	1							 .	<u> </u>							\vdash		\vdash			1	1	\dashv	1				Drive Belt	EG1-2
	\dagger	1	1	7	ω	13												T					+	\dashv	+	\dashv			\dashv	Eng Coolant Temp.	CH-6
	1	2)	5	7									-	Н				\vdash	 	\vdash	H	\dashv	\dashv	\dashv	+	\dashv	-	H		Sensor Gaauge Oil Pressure	BE Sec
2	\dagger	\dagger	\dashv	-		\vdash			Н				_	Н		-		+	-	-			\dashv	\dashv	\dashv	\dashv				Switch. Generator	BE Sec
\exists	\dashv	\dagger	\dashv	6		12	\vdash	_					-	H		\vdash	<u>.</u>	\vdash	ļ	\vdash		-	\dashv	\dashv	\dashv	\dashv		H	\dashv		CH-9
						~			Ш		<u> </u>	L	<u> </u>	Ш				<u> </u>	L		L							Ш	$oldsymbol{\bot}$	Cylinder Block	EG1-5