TROUBLESHOOTING

Use the table 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	EG2-17	1G-17	EG2-199	EG2-246	EG2-190	EG2-190	EG2-188	EG2-193	ı	EG2-193	1	EG2-203	EG2-211	EG2-229	EG2-218	EG2-208	1
	Suspect area	ignal	gnition Circuit	Heated Oxygen Sensor Circuit	nsor	Intake Air Temp. Sensor Circuit	Volume Air Flow Meter Circuit	Position Circuit	STA Signal Circuit	Sensor	gnal	nal	dwr	essure or	nes	6	art	eed I Valve
	Symptom	RPM Signal Cirucit	Ignition	Heated Sensor	ECT Sensor Circuit	Intake Air Tem Sensor Circuit	Volume Air Fl Meter Circuit	Throttle Sensor	STA Sig 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
	Engine does not crank																	
Does not start	Starter runs – engine does not crank																	
Does start	No Initial combustion	12	2				5						6				13	8
S	No combustion				4		1							3		9	10	2
	Engine cranks slowly											2						
art	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
	Hot engine		<u> </u>		1	5							8	7	9	10	6	3
	Incorrect first idle				3													4
و و	Nigh engine idle speed		L		4	6		7			9	8				10	11	5
Poor idling	Low engine idle speed				1		4									5		2
or i	Rough idling		18		2		12						7	6	8	16	17	9
18	Misfire		4		6		8									9	10	
	Hesitant acceleration			12	10	11	9	8					14	13	15	18	19	
l <u>∯</u> ∣	Backfire			6	3	7	5	4					9	8	10	11		
Poor drivability	Muffler explosion (after fire)			8	3	7	5	6						4		9	10	
5	Surging								i					1		4		
å	Knocking									1								
	Soon after starting				8		7						3	2	4	9	10	6
la II	After accelerator pedal depressed						1	3						5	6	7		
Engine stall	After accelerator pedal released						3					_	1					1
	During A/C operation											1						2
	When shifting N to D										1							2
1 I	Poor fuel economy		1	21	16	22	18	17			19	20				14	15	
1 1	Engine overheat									9								
	Engine overcool																	
	Excessive oil consumption				l						\bot		I					
ers	Low oil pressure								[T							
	High oil pressure											J						
	Starter keeps running							I]					
oxdot	Battery often discharges]							[I		I]

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.

	See page	EG2-243	EG2-244	EG2-256	EG2-211	:G2-253	1	-	1	ı	ST-15	CL Sec.	5T-4	G-21	G-25	G2-148	1	1
	Suspect area	ain	Circuit Opening Relay	Fuel Cut System	Fuel Pressure Control System	Engine Control Module	Fuel Quality	Fuel Leakage	Engine Coolant Leakage	Oil Leakage	Starter Relay	PNP SW or Clutch Start SW	_	Plug	outor	EGR System	erator Link	Brakes Drag Eve When Released
•	Symptom	EFI Main Realy	Circuit Relay	Fuel C	Fuel P Contro	Engine Module	Fuel (Fuel L	Engine Leaka	Oil Le	Starte	PNP S Clutch	Sterter	Spark Plug	Distributor	EGR	Accele Pedal	Brake
	Engine does not crank								<u> </u>		1	3	2					L
Does not start	Starter runs – engine does not crank												1					
Does	No combustion	3	4			14	7		<u> </u>						1		<u> </u>	
- "	No complete combustion					11						<u> </u>					<u> </u>	
_	Engine cranks slowly								<u> </u>				1	<u> </u>			L.,	
Difficult to start	Engine cranks normally					18	1	<u> </u>						2	15	5	<u> </u>	
E S	Cold engine					11	3	<u> </u>	<u> </u>		<u> </u>						ļ	 _
	Hot engine				4	11	2	<u> </u>	ļ		<u> </u>							
	Incorrect first idle					5					L				L		 	<u> </u>
g	High engine idle speed					12		<u> </u>	<u> </u>					<u> </u>			1	
Ē	Low engine idle speed					6			<u> </u>		L					1	<u> </u>	
Poor idling	Rough idling		<u> </u>			19	1	<u> </u>			ļ			4	5	3	ļ	
6	Misfire					11	1			<u> </u>				3	5	2	ļ	
	Hesitant acceleration					20	3		ļ			<u> </u>		5	6	4		2
. <u>≦</u> .	Backfire					12		<u> </u>	ļ	<u> </u>				<u> </u>		1		<u> </u>
Poor drivability	Muffler explosion (after fire			1		11						<u> </u>						
ᅙ	Surging					5		<u> </u>		<u> </u>	<u> </u>			2	3			
8	Knocking					10	2			L				3	<u> </u>	4		<u> </u>
	Soon after starting					11	1				<u> </u>			ļ		5		↓
≡	After accelerator pedal depressed					8								4		2		
Engine stall	After accelerator pedal released					4										2		
ugu	During A/C operation					3									<u> </u>			ــــــ
ш	When shifting N to D					3										·		<u> </u>
	Poor fuel economy			8			2	1						9	10	7	3	6
	Engine overheat							<u> </u>	1			<u> </u>		1			Accelerator Pedal Link	
	Engine overcool																	<u> </u>
w	Excessive oil consumption									1				1	<u> </u>	<u> </u>		1_
Others	Low oil pressure									1						<u> </u>	1	
₹	High oil pressure															<u> </u>		
	Starter keeps running .										1		2					
	Battery often discharges	T					T								1	1	1	

T	T	T	T	1	-	2			 T		7								T	T	T	T					Cooling Fan System	-
T	T	T			1		4											2	2								Dash Pot	EG2-235
T	T	1		1					 1					П					ω		1	1					Throttle Opener	EG2-235
	T						5														1						Clutch	CL Sec.
1	T			ယ			3								7	7	10				6	1	5	9			Compression	EG2-31
T	T		$ \top $												16		13										Valve Clearance	EG2-19
T	T					7	13		1		5		2	2	17		14				=		7	10			Valve Timing	EG2-47
						5											15						œ	11		Γ	Timing Belt	EG2-39
Ī						6					9																Water Pump	EG2-265
Ī				2																		·					Valve Stem Guide Bushing	EG2-66
	1	-	2					Γ			1	Ī															Oil Pump	EG2-280
			သ			ō																3					Connecting Rod Bearing	EG2-99
			4																			4					Crankshaft Bearing	EG2-102
				5		1											20										Cylinder Head	EG2-63
				4			12								·		==				10		6				Piston Ring	EG2-110
																									2		Flywheel or Drive Plate	_
						ω					σ	,															Radiator and Radiator Cap	EG2-269
					2	4					α	•															Thermostat	EG2-268
-																											Dive Belt	CH-6
					ω	13																					Engine Coolant Sender Gouge	BE Sec
		2	5																								Oil Pressure Switch	BE Sec
٥														\int													Generator	CH-9
				6		12																		Γ		T	Cylinder Block	EG2-10