QUICK DIAGNOSTIC CHART [SKYACTIV-D 2.2]

id1103a2000400

×: Applicable
—: Not applicable

		Intake air system											
		l	e air n part	4	Air cleane		Intake	shutter Ive	Compr essor (small)	Compr essor (large)	Compr essor bypass solenoi d valve		
	Troubleshooting item	Air suctio n/ Leakag e/ Perfora tion	Cloggi ng	Deform ation	Air cleaner elemen t restrict ed	Non- genuin e part installa tion	Does not fully close (Does not confor m to target value)	Cloggi ng, stickin g	Improp er operati on	Improp er operati on	Improp er operati on		
1	i-stop warning light (amber) illuminates	_	_	_	_		_	_	_	_	_		
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_		
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_		
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_		
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_		
6	Engine does not restart	_	_	_	_	_	_	_	_	_	_		
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_		
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_		
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_		
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_		

^{*1 :} ATX

		Intake air s	ystem	Exhau	st system		Exh	aust sys	tem	
			Interfer ence	1	exhaust tem part	Small- type turboc harger	Large- type turboc harger	Regula ting solenoi d valve	Waste gate solenoi d valve	EGR cooler bypass valve
	Troubleshooting item	Improper installation of turbocharg er	with housin g of turbo rotatio nal mecha nism	Leakag e	Clogging (mostly in oxidation catalytic converter for diesel, diesel particulate filter)	Improp er operati on	Improp er operati on	Improp er operati on	Improp er operati on	Improp er operati on
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_		_	_	_
7	Limited i-stop function operation time		_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_			_					
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_

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			Ex	haust syst	em			Fuels	ystem	аррисавіе
	Troubleshooting item	EGR valve		cooler	EGR pipe	Diesel particul ate filter	Fuel	line		filter
	Troubleshooting item	Imprope r operatio n	Leakage (gas)	Cloggin g	Cloggin g	Loss	Leakage	Cloggin g	Leakage	Cloggin g
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_	_	_	_

			Exl	haust syst	em			Fuel s	ystem	
	Troubleshooting item	EGR valve	EGR (cooler	EGR pipe	Diesel particul ate filter	Fuel	line	Fuel	filter
	Troubleshooting item	Imprope r operatio n	Leakage (gas)	Cloggin g	Cloggin g	Loss	Leakage	Cloggin g	Leakage	Cloggin g
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_			
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_

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					F	uel syster	n			аррпсавіс
			nentor tch	Fuel warmer	Jet pump (4WD)	Supply pump		control lve		essure valve
	Troubleshooting item	Always on	Always off	Imprope r operatio n	Imprope r operatio n	Poor dischar ge amount	Low adjuste d pressur e value	High adjuste d pressur e value	Low adjuste d pressur e value	High adjuste d pressur e value
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	×	_	_	_	_	_
7	Limited i-stop function operation time	_		_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	×	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_

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						Fuel s	ystem				
		Fuel check valve	Fuel feed valve	Fuel system /Fuel			Fı	uel inject	or		
	Troubleshooting item	Improp er operati on	Improp er operati on	injectio n system malfun ction (such as leakag e)	Open circuit in drive circuit	Short circuit in drive circuit	Leakag e	Restric ted	Always open	Always close	QR code mismat ch
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_		_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)										_
9 [*]	Acceleration malfunction	_	_	×	×	×	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_

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		Fue	l system				Contr	ol system		ррпоцью
		Fuel injector	Fu	uel			PCM		Main	relay
	Troubleshooting item	Injection amount correction miss-match	Low cetane value	Inferior constit uent	No initiati on	No config uration	No learnin g	Open circuit in back-up power supply circuit of PCM	Always off	Always on
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_		_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	×	×	_	_	_	_	_	_

		Fue	l system				Contr	ol system		
		Fuel injector	Fι	ıel			PCM		Main	relay
	Troubleshooting item	Injection amount correction miss-match	Low cetane value	Inferior constit uent	No initiati on	No config uration	No learnin g	Open circuit in back-up power supply circuit of PCM	Always off	Always on
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	×	×	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_

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							/stem (l	PCM inp	ut sign	al)			
		M	AF sens	or			APP s	sensor	CI	<p sens<="" th=""><th>or</th><th>CMP s</th><th>sensor</th></p>	or	CMP s	sensor
	Troubleshooting item i-stop warning light (amber) illuminates		Low input	Open or short circui t in signa I circui t	Errati c signa I input	Open or short circui t in signa I circui t	Errati c signa I input	Open or short circui t in signa I circui t	False signa I outpu t (no noise , pulse)	Open or short circui t in signa I circui t	Engin e spee d signa	False signa I outpu t (no noise , pulse)	Open or short circui t in signa I circui t
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes		_	_	_	_		_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_			_	_	_	_		_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_		_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_		<u> </u>	_	_	_	_	_
7	Limited i-stop function operation time												
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_	_	
9 [*]	Acceleration malfunction	_	_	_	_		_	_	_	_	_	_	
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

					С	Control system (PCM input signal)											
		E	CT sen	ısor		senso	•		Boost		IAT	senso	r No.2				
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit				
1	i-stop warning light (amber) illuminates	_	_	_	_	_		_	_	_	_	_	_				
2	i-stop warning light (amber) flashes	_	_	_	_		_	_	_	_	_	_	_				
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	_	_				
4	i-stop function does not operate	×	×	_	×	×	_	_	_	_	_	_	_				
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_	_				
6	Engine does not restart	×	_	_	×	_	_	_	_	_	_	_	_				
7	Limited i-stop function operation time	_	_			_	_	_	_	_	_	_	_				
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_		_	_	_				
9 [*]	Acceleration malfunction			_						_			_				
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_				

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					С	ontrol	system (PCM in	put sig	nal)			ррпоавто
		MAF	senso	or No.1	MAF	senso	or No.2	Fue	l tempe		Fu	el pres	
									senso			senso	
				Open			Open			Open			Open
	Troubleshooting item			or			or			or			or
	Troubleshooting item		Low	short circuit in signal circuit	High input	Low input	short circuit in signal circuit	High input	Low	short circuit in signal circuit	High input	Low	short circuit in signal circuit
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_		_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate		_	_	_	×		_	_		_	_	_

					С	ontrol	system (I	PCM in	put sig	nal)			
		MAF	senso	or No.1	MAF	senso	or No.2	Fue	l tempe senso		Fu	el pres	
	i-stop function operates		Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input		Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
6	Engine does not restart	_	_	_	_	_	_	_		_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_		_	_		_	_		_	_		_
9 [*]	Acceleration malfunction	_	_	_	_			_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

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					С	ontrol	system (I	PCM in	put sig	nal)			ррпоцью
			xhaust erature No.1	sensor		xhaust ure sei 1	gas nsor No.		Engine erature	oil sensor	Engir	ne oil p sensc	ressure or
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input		Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	<u> </u>	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_		_	_		_	_	_	_	
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_	_	_

					С	ontrol	system (PCM in	put sig	nal)			
			xhaust erature No.1	sensor		xhaust ure ser 1	gas isor No.		Engine erature	oil sensor	Engir	ne oil p sensc	ressure or
	Troubleshooting item	High input	Low input	Open or short circuit in signal	High input	Low	Open or short circuit in signal	High input	Low input	Open or short circuit in signal	High input	Low input	Open or short circuit in signal
				circuit			circuit			circuit			circuit
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

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					С	ontrol	system (PCM in	put sig	nal)		. 1101 0	ррпсавіе
			xhaust erature No.2	sensor		xhaust erature No.3	sensor		xhaust ure ser 2	gas isor No.	I	VF sen	sor
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_	_	_	_		_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

					С	ontrol s	ystem (l	PCM inp	ut signa	al)			
			RO sei lt-into		valve p	lating osition isor	bypas: posi	cooler s valve ition isor	pos	valve ition isor		erator o	
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	Errati c signal input	Open or short circuit in signal circuit	Errati c signal input	Open or short circuit in signal circuit	Errati c signal input	Open or short circuit in signal circuit	High input	Low input	Open or short circuit in signal circuit
1	i-stop warning light (amber) illuminates	_		_	_	_	_		_		_	_	_
2	i-stop warning light (amber) flashes	_		_		_	_		_		_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_			_		_	_	_
4	i-stop function does not operate	_	×	_	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_		_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	×		_	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_		_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

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					Co	ntrol sy	ystem (l	PCM inp	out sign	al)			
		Refrig	erant p senso	oressure or	Chec k conn ector		switch TX)	inte	rter rlock (MTX)		switch signal)		switch signal)
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	Open circui t	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off
1	i-stop warning light (amber) illuminates	_		_	_		_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	×	×	×	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_		_	_		_	_	_	_	_	_	_
4	i-stop function does not operate	×	×	×	_		_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_	_

					Co	ntrol sy	/stem (l	PCM inp	out sign	al)			
		Refrig	jerant p sensc	oressure or	Chec k conn ector		switch TX)	inter	rter lock (MTX)		switch signal)		switch signal)
	Troubleshooting item	High input	Low input	Open or short circuit in signal circuit	Open circui t	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off	Alwa ys on	Alwa ys off
6	Engine does not restart	_	_	_	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	_	-
8	Ineffective operation of A/ C during engine stop (i- stop system)	×	×	×	_	_	_	_	_	_	_	_	
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

			sig	m (PCM nal)	-				•	output s	ignal)	
			switch		ip light (MTX)	Fan c		odule co	ontrol	A/C	relay cir	cuit
	Troubleshooting item	Alway s on	Alway s off	Alway s on	Alway s off	Open circuit in power supply circuit	Contr ol signal circuit alway s on	Contr ol signal circuit alway s off	Open circuit in groun d circuit	Open circuit in circuit on coil side	Circuit on switch side consta ntly on	Circuit on switch side consta ntly off
1	i-stop warning light (amber) illuminates		_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_		_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_		_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_		_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	1	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time		_	_	_	_	_			_	_	
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	×	×	×
9 [*]	Acceleration malfunction											_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_

					Contr	ol syste	m (PCM	output s	ignal)		NOL ap	plicable
		Gener ator contro I signal	Starte	er relay o			by heate	•		control r sig	nodule d	ontrol
	Troubleshooting item	Open or short circuit	Open circuit in circuit on coil side	Circui t on switch side const antly on	Circui t on switch side const antly off	Open circuit in circuit on coil side	Circui t on switch side const antly on	Circui t on switch side const antly off	Open circuit in power suppl y circuit	Contr ol signal circuit const antly energi zes (FET malfu nction)	Contr ol signal circuit alway s off	Open circuit in groun d circuit
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_		_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_		_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_		_	_	
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_		_	_	
6	Engine does not restart	_	×	_	×	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

		systen output A/F s	ntrol n (PCM signal) ensor ater				M Each en	lechanic		t		
	Troubleshooting item	Alway s on	Alway s off	Large mecha nical resist ance	Deviat ion in valve timing	High compr ession press ure	No compr ession in specifi c cylind er	No compr ession in all cylind ers	Bad compr ession in specifi c cylind er	Bad compr ession in all cylind ers	Oil worki ng up or down	Piston ring malfu nction
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	×	×	_	_	×	_	×	_	
7	Limited i-stop function operation time	_		_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_							_		_
9 [*]	Acceleration malfunction	_	_	×	×	×	×	_	×	×	×	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

						Mecha	nical				Lubrica tion system
	Troubleshooting item	00	CV	I	w-by ater	En	gine oil sc	olenoid va	lve	Belts for engine access ories	Engine oil
		Alway s on	Alway s off	Alway s on	Alway s off	Open circuit in drive circuit	Short circuit in drive circuit	Valve stuck open	Valve stuck close	Slippag e	Inferior constit uent
1	i-stop warning light (amber) illuminates	_	_	_	_	_			_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_			_	_	_
3	i-stop indicator light (green) flashes		_	_	_	_	_	_	_	_	_
4	i-stop function does not operate	_	_	_	_	_	_	_	_	_	_

						Mecha	nical				Lubrica tion system
	Troubleshooting item	00	CV	Blov hea	v-by ater	En	gine oil sc	elenoid va	lve	Belts for engine access ories	Engine oil
		Alway s on	Alway s off	Alway s on	Alway s off	Open circuit in drive circuit	Short circuit in drive circuit	Valve stuck open	Valve stuck close	Slippag e	Inferior constit uent
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_		_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_		_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

		Lubri	cation sy	stem		Cod	oling sys	tem		Chai	ging tem
		E	Engine oi	I	Engine pass	coolant sage	Thern	nostat	Coolin g fan motor		tery
	Troubleshooting item	Leakag e	Cloggi ng	Improp er level	Restric ted	Leakag e	Always open	Always close	Improp er operati on	Does not charge	No discha rge (deteri oration
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_
4	i-stop function does not operate		l	_		_	_	_	_	_	_
5	i-stop function operates under no engine-stop conditions	_		_		_	_	_	_	_	_
6	Engine does not restart	_		_	_	_	_	_	_	_	_
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	_

		Lubri	Lubrication system			Co	Charging system				
		Engine oil			Engine coolant passage		Thermostat		Coolin g fan motor	Bat	tery
	Troubleshooting item	Leakag e	Cloggi ng	Improp er level	Restric ted	Leakag e	Always open	Always close	Improp er operati on	Does not charge	No discha rge (deteri oration
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

				Cha	rging sys	stem			emissi on ATX system		гх	
	Troubleshooting item		Generato	r	Sta	rter	Glow plug		ic conver ter (diesel particu late filter)	A	ATF	
		Low power genera tion voltage	No power genera tion	High power genera tion	Open/ short circuit in drive circuit	Interna I malfun ction	Always off	Always on	Deterio ration or loss	Oil cooler restrict ion	Lack of ATF	
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_	
2	i-stop warning light (amber) flashes	_	_	_	_	×	_	_	_	_	_	
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_	_	_	
4	i-stop function does not operate	_	_	_	_	×	_	_	_	_	_	
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_	
6	Engine does not restart	_	_	_	×	_	_	_	_	_	_	
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	_	
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_	
9 [*]	Acceleration malfunction		_	_		_		_	_		×	
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	

^{*1 :} ATX

			ATX		Other								
		Automatic transaxle			Engine mount	Instru ment cluster	Brake	Tire	Vehicle	electric (devices		
	Troubleshooting item	TCC non- operati on	Consta nt lockup	Abnor mal shift point	Loose ness	Improp er operati on	Drag	Low air pressu re	Remot e transm itter left in vehicle cabin	Large amoun t of parasit ic draw	Large power consu mption		
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_	_	_		
2	i-stop warning light (amber) flashes	_	_	_	_	_	_	_	_	_	_		
3	i-stop indicator light (green) flashes	_	ı		_	_		_	1		_		
4	i-stop function does not operate	_		_	_	_	_	_	_	×	×		
5	i-stop function operates under no engine-stop conditions	_	_	_	_	_	_	_	_	_	_		
6	Engine does not restart	_		_	_	_	_	_	_	_	_		
7	Limited i-stop function operation time	_	_	_	_	_	_	_	_	_	×		
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_	_	_	_	_		
9 [*]	Acceleration malfunction	_	_	_	_	_	×	_	_	_	_		
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_		

^{*1 :} ATX

				Ot	her			i-stop					
Troubleshooting item		A/C compr essor	or system		Advan ced keyles s entry syste m	Climat e contro I unit	Magn etic clutch	i-stop OFF	FF		Door latch switch or liftgate latch switch		
	Troubleshooting item		Impro per operat ion	Unpro gram med remot e trans mitter	Impro per operat ion	Impro per operat ion	Impro per operat ion	Stuck Stuck Stu		Stuck open	Stuck close		
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	×	_	_	_	_	
2	i-stop warning light (amber) flashes	_	_	_		_	_	_	_	_	_	_	
3	i-stop indicator light (green) flashes	_	_	_	_	_	_		_	_	_	_	

				Ot	her					i-stop		
	Troubleshooting item		A/C compr essor		Advan ced keyles s entry syste m	Climat e contro I unit	Magn etic clutch i-stop OFF	Bonnet latch switch		Door latch switch or liftgate latch switch		
			Impro per operat ion	Unpro gram med remot e trans mitter	Impro per operat ion	Impro per operat ion	Impro per operat ion	signal malfu nction	Stuck open	Stuck close	Stuck open	Stuck close
4	i-stop function does not operate	_	×	_	×	_	_	×	×	_	×	_
5	i-stop function operates under no engine-stop conditions	-	_	_	_	_	_	_	_	×	_	×
6	Engine does not restart		_	_	×	_	_	×	_	_	_	_
7	Limited i-stop function operation time	_	_	_	×	_	_	×	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_		_		_	_		_	
9 [*]	Acceleration malfunction	×	_		_	_	_	_	_	_	_	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	_	_	_	_	_

^{*1 :} ATX

						i-sto	р			ot applicable
Troubleshooting item		False detection of driver-side buckle switch		Instru ment	Number of times istop function operates	Ambie nt temper ature sensor	Cabin temper ature sensor	Solar radiati on sensor	Driver-side air mix	Driver-side air mix actuator position sensor
		Stuck off	Stuck on	cluster malfun ction	exceeds assured operation amount of componen ts	Erratic signal input	Erratic signal input	Erratic signal input	actuator malfunctio n	Erratic signal input
1	i-stop warning light (amber) illuminates	_	_	×	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	_	_	×	×	_	_	_	_	_
3	i-stop indicator light (green) flashes	_	_	×	_	_	_	_	_	_
4	i-stop function does not operate	×	_	×	×	×	×	_	×	×
5	i-stop function operates under no engine-stop conditions		×	×	_	×	×	_	×	×
6	Engine does not restart	_	_	_	_	_	_	_	_	_
7	Limited i-stop function operation time		_	_	_	_	_	_	×	×

						i-sto	р				
Troubleshooting item		False detection of driver-side buckle switch		Instru ment	Number of times i- stop function operates	Ambie nt temper ature sensor	Cabin temper ature sensor	Solar radiati on sensor	Driver-side air mix	Driver-side air mix actuator position sensor	
	Troubleshooting item	Stuck off	Stuck on	cluster malfun ction	exceeds assured operation amount of componen ts	Erratic signal input	Erratic signal input	Erratic signal input	actuator malfunctio n	Erratic signal input	
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	×	×	×	×	×	
9 [*]	Acceleration malfunction	_	_	_	_	_	_	_	_	_	
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	—	_	_	

^{*1 :} ATX

					i-s	top			
	Troubleshooting item	Steering angle sensor Erratic signal	Defroster switch malfuncti on	Low power brake unit load	Power brake unit vacuum sensor Erratic signal	Heater core temperat ure sensor malfuncti	Battery manage ment system malfuncti	Brake fluid pressure sensor (built- into DSC	M position switch malfuncti on (ATX) Erratic signal
		input			input	on	011	HU/CM)	input
1	i-stop warning light (amber) illuminates	_	_	_	_	_	_	_	_
2	i-stop warning light (amber) flashes	×	×	_	×	_	×	×	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_	_	_
4	i-stop function does not operate	×	×	×	×	_	×	×	×
5	i-stop function operates under no engine-stop conditions	×	×	_	×	_	_	×	_
6	Engine does not restart	×	×	_	×	_	×	_	×
7	Limited i-stop function operation time	×	×	×	×	×	×	×	×
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	×	_	_	_
9 [*]	Acceleration malfunction	_	_	_	_	_	_	×	_
10 *1	Vehicle moves when accelerating from standstill on slope	_	_	_	_	_	_	×	_

^{*1 :} ATX

—: Not applicable

				i-s	top	·	140t applicable
	Troubleshooting item	Low-G (XY) sensor (built- into SAS control module) Erratic signal	TFT sensor (ATX)	Electric AT oil pump malfunction (ATX)	DSC HU/CM malfunction	Generator drive belt wear	Ignition switch input (PCM terminal 2H)
		input	input				Stuck on
1	i-stop warning light (amber) illuminates	_	_		_		_
2	i-stop warning light (amber) flashes	×	×	×	×	×	_
3	i-stop indicator light (green) flashes	_	_	_	_	_	_
4	i-stop function does not operate	×	×	×	×	×	_
5	i-stop function operates under no engine-stop conditions	×	×	_	_	_	_
6	Engine does not restart	_	_	_	_	_	_
7	Limited i-stop function operation time	_	×	_	_	_	_
8	Ineffective operation of A/ C during engine stop (i- stop system)	_	_	_	_	_	_
9 [*]	Acceleration malfunction	_	_	×	×	×	_
10 *1	Vehicle moves when accelerating from standstill on slope	×	_	×	×	_	_

^{*1 :} ATX