## QUICK DIAGNOSTIC CHART [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0103g3800600

															ı	X: Ap	plio
Trou	ubleshooting item		Possible factor	Starter motor malfunction (mechanical or electrical)	Starter circuit including ignition switch is open	Improper engine oil level	Low or dead battery	Charging system malfunction	Improper engine compression	Improper dipstick	Base engine malfunction	Drive plate (ATX) or flywheel (MTX) is seized	Improper tension or damaged drive belts	Improper engine coolant level	Water and anti-freeze mixture is improper	Cooling system malfunction (radiator, hoses, overflow system, thermostat, etc.)	Colling for a web made wedien
1	Blown fuses																
2	Check engine light illu	uminate	S														
3	Will not crank			Х	Х		Х	Х			Х	Х					
4	Hard to start/long cra	nk/errat	ic start/erratic crank	Х					Х		Х						$\top$
5	Engine stalls	After	start/at idle						Х								
6	Cranks normally but	will not s	start						Х								
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT LC	Inspect				х				х	х						
8	Engine runs rough/ro	lling idle	)						Х								
9	Fast idle/runs on																
10	Low idle/stalls during	deceler	ation						Х								
	Engine stalls/quits	Accel	eration/cruise						Х								
	Engine runs rough	Accel	eration/cruise						Х								
11	Misses	Accel	eration/cruise						Х								
•	Buck/jerk	Accel	eration/cruise/deceleration						Х								
	Hesitation/stumble	Accel	eration						Х								
	Surges	Accel	eration/cruise						Х								
12	Lack/loss of power		eration/cruise						Х								$\perp$
13	Knocking/pinging	Accel	eration/cruise						Х								
14	Poor fuel economy								Х					Х		Х	1
15	Emission compliance								Х		Х					Х	-
16	High oil consumption			$\vdash$						Х	Х						$\perp$
17	Cooling system conc		Overheating										Х	Х	Х	X	1
18	Cooling system conc	erns	Runs cold	-					\							X	-
19	Exhaust smoke		m antl	-					Х		Х					Х	+
20	Fuel odor (in engine	compart	теп)	-									Х				+
21	Engine noise	mair - \		-									^				+
22	Vibration concerns (e			-													+
23	A/C does not work su		,	-													+
24	-		pressor runs continuously														$\perp$
25			open throttle conditions														1
26	Exhaust sulphur sme	II							х								1
27	Spark plug condition																1

																	(: Ap	ollea
Trou	ubleshooting item		Possible factor	Engine or transaxle mounts are improperly installed	Cooling fan or condenser fan seats improper	Fuel quality	Improper engine oil viscosity	Improper valve timing	Oil leakage (internal, turbocharger, external)	Improper oil or fluid level	Coolant leakage (internal, turbocharger, external)	Electric variable valve timing system malfunction	Hydraulic variable valve timing system malfunction	Engine overheating	Air cleaner element clogged or restricted	Air leakage from intake-air system (loose tubes, cracks, gaskets breakage)	Air suction in intake-air system	Intake-air system restriction
1	Blown fuses																	
2	Check engine light illu	uminate	S									Х	Х					
3	Will not crank																	
4	Hard to start/long cra					Х		Х							Χ	Х		Х
5	Engine stalls		start/at idle			Х						Х	Х	Х		Х		Х
6	Cranks normally but v					Х		Х						Χ	Χ	Х		Х
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT LC	Inspect																
8	Engine runs rough/ro	lling idle	e			Х		Х						Х		Х		Х
9	Fast idle/runs on											Х	Χ			Х		
10	Low idle/stalls during	decele	ration					Х								Х		Х
	Engine stalls/quits	Accel	eration/cruise			Х		Х						Х	Х			Х
	Engine runs rough	Accel	eration/cruise			Х		Х						Х	Х			Х
11	Misses	Accel	eration/cruise			Х		Х						Х	Х			Х
''	Buck/jerk	Accel	eration/cruise/deceleration			Х		Х						Х	Х			Х
	Hesitation/stumble	_	eration			Х		Х						Х	Х			Х
	Surges		eration/cruise			X		Х						X	X			Х
12	Lack/loss of power	_	eration/cruise			Х		Х				Х	Х	Х	Х	Х		Х
13	Knocking/pinging	Accel	eration/cruise			X								Х		Х		$\square$
14	Poor fuel economy					X		X							X			$\sqcup$
15	Emission compliance					Х		Х	\					Х	Х	Х		$\sqcup$
16	High oil consumption		1				Х		Х		V							$\vdash$
17	Cooling system conce										Х							
18	Cooling system conce	erns	Runs cold						Х		Х				Х	Х		$\vdash \vdash$
19	Exhaust smoke Fuel odor (in engine of	compar	tment)								^				^	^		$\vdash \vdash$
21	Engine noise	compai	unond							Х								$\vdash \vdash$
22	Vibration concerns (e	naine)		Х	Х					^								$\vdash \vdash$
23	A/C does not work su		V	<b>^</b>	^													$\vdash \vdash$
24			pressor runs continuously															$\vdash \vdash$
25	,		open throttle conditions															$\vdash\vdash$
-	Exhaust sulphur sme		open unoute conditions			V												$\vdash\vdash$
26	'	11				Х												$\vdash\vdash$
27	Spark plug condition					<u> </u>	800 (	Posti -	n 05 (	ום דר	ANSM	lleere	NI/TO	ANC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>		$\Box$
28	ATX concerns	Up	shift/downshift/engagement			SYI					AITOC							

X: Appl	ied
---------	-----

			Possible factor									÷.			
Troi	ubleshooting item		Possible factor	Drive-by-wire control system improper operation	Drive-by-wire control system operates with brake override system	Throttle body malfunction	Vacuum leakage (vacuum hose damage, misrouting)	Ignition coil malfunction (e.g. open, short or cracks)	Initial ignition timing misadjustment (CKP and pulse wheel misadjustment)	Spark plug malfunction	Fuel pump (low-pressure side) malfunction (mechanically or electrically)	Pressure regulator (built-into fuel pump unit at fuel tank)	Inadequate fuel pressure (high-pressure side)	Inadequate fuel pressure (low-pressure side)	Fuel line restricted or clogged
1	Blown fuses														
2	Check engine light ill	uminate	 S	Х											
3	Will not crank	arriiriato													
4	Hard to start/long cra	nk/errat	ic start/erratic crank	Х		Х	Х	Х	Х	Х	Х		Х	Х	х
5	Engine stalls		start/at idle	Х			Х	Х			X		Х	Х	Х
6	Cranks normally but	will not s	start	Х			Х	Х		Х	Х		Х	Х	Х
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT LG	ght illumi Inspect	nates/message												
8	Engine runs rough/ro	olling idle	)	Х			Х	Х		Х	Х		Х	Х	
9	Fast idle/runs on			Х		Х									
10	Low idle/stalls during	deceler	ation	Х			Х						Х	Х	Х
	Engine stalls/quits	Accel	eration/cruise	Х		Х	Х			Х	Х		Х	Х	Х
	Engine runs rough	Accel	eration/cruise	Х		Х	Х			Х	Х		Х	Х	Х
11	Misses	Accel	eration/cruise	Х		Х	Χ			Х	Х		Х	Х	Х
''	Buck/jerk	Accel	eration/cruise/deceleration	Х	Х	Х	Х			Х	Х		Х	Х	Х
	Hesitation/stumble	Accel	eration	Х	Х	Х	Х			Х	Х		Х	Х	Х
	Surges	Accel	eration/cruise	Х	Х	Х	Х			Х	Х		Х	Х	Х
12	Lack/loss of power	Accel	eration/cruise	Х	Х	Х	Х	Х		Х	Х		Х	Х	Х
13	Knocking/pinging	Accel	eration/cruise	Х				Х					Х	Х	
14	Poor fuel economy						Х	Х		Х			Х	Х	Х
15	Emission compliance	)		Х		Х	Х			Х			Х	Х	
16	High oil consumption														
17	Cooling system cond	erns	Overheating												
18	Cooling system cond	erns	Runs cold												
19	Exhaust smoke							Х		Х			Χ	Х	
20	Fuel odor (in engine	compart	ment)										Х	Х	
21	Engine noise						Х								Ш
22	Vibration concerns (	<u> </u>													
23	A/C does not work su		<u> </u>												
24	A/C is always on or A	VC com	pressor runs continuously												
25	A/C is not cut off und	ler wide	open throttle conditions												
26	Exhaust sulphur sme	ell					Х						Х	Х	
27	Spark plug condition														
28	ATX concerns	Up	shift/downshift/engagement								ON/TRAN W6A-EL,			.]	

					I	ı			1	1	1	ı		Λ. Αμ	
			Possible factor												
Trou	ubleshooting item			Fuel injector malfunction (inoperative)	Fuel filters restricted or clogged	Fuel pressure limiter malfunction (built-into common rail)	Spill valve control solenoid valve malfunction (built-into high pressure fuel pump)	Fuel leakage at fuel line	High pressure fuel pump malfunction	Incorrect fuel injection timing or amount	Improper air/fuel ratio mixture control	Exhaust system or catalytic converter restriction	Exhaust gas leakage	Catalytic converter malfunction	PCV valve malfunction
1	Blown fuses														
2	Check engine light ill	luminate	S	Х							Х			Х	
3	Will not crank														
4	Hard to start/long cra	ank/errat	ic start/erratic crank	Х	Х	Х	Х	Χ	Х	Х	Х	Х			Х
5	Engine stalls		start/at idle	Х		Х	Х	Х	Х	Х	Х	Х			Х
6	Cranks normally but			Х		Х	Х	Х	Х	Х	Х	Х			Х
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT Light	Inspect													
8	Engine runs rough/ro	olling idle	9	Х	Х	Х	Х	Х	Х			Х			Х
9	Fast idle/runs on			Х			Х								
10	Low idle/stalls during	g deceler	ration	Х		Х	Х	Х	Х	Х					
	Engine stalls/quits	Accel	eration/cruise	Х		Х	Х		Х	Х	Х	Х			Х
	Engine runs rough	Accel	eration/cruise	Х		Х	Х		Х	Х	Х	Х			Х
11	Misses	Accel	eration/cruise	Х		Х	Х		Х	Х	Х	Х			Х
l '' l	Buck/jerk	Accel	eration/cruise/deceleration	Х		Х	Х		Х	Х	Х	Х			Х
	Hesitation/stumble	Accel	eration	Х		Х	Х		Х	Х	Х	Х			Х
	Surges		eration/cruise	Х		Х	Х		Х	Х	Х	Х			Х
12	Lack/loss of power		eration/cruise			Х	Х		Х	Х		Х	Х		Х
13	Knocking/pinging	Accel	eration/cruise	X			Х		\	X		X			
14	Poor fuel economy			X	Х	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Х	X	X		X		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	X
15	Emission compliance			Х		Х	Х		Х	Х	Х	Х		Х	X
16	High oil consumption														
17	Cooling system cond		Overheating  Puge cold												
18 19	Cooling system cond Exhaust smoke	ems	Runs cold	Х						Х			Х		X
20	Fuel odor (in engine	compart	tment)	X				Х	_	^	-				
21	Engine noise	σοπιμαπ	unon)												
22	Vibration concerns (	engine)													
23	A/C does not work s		V												
24			pressor runs continuously												
25			open throttle conditions												
26			open unoute conditions						_		-				Х
26	Exhaust sulphur sme Spark plug condition														
28	ATX concerns		oshift/downshift/engagement		SYN		l ction 05-0 TROUBL								

3 Will not c 4 Hard to s 5 Engine st 6 Cranks no 7 "Engine of is indicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	es gine light illum ank art/long crank alls rmally but wil warning light	√errati After s	c start/erratic crank	Constant voltage supply circuit malfunction	Main relay malfunction (mechanically or electrically)	No battery power supply to PCM	Poor PCM ground or vehicle ground (open)	Electrical connector disconnection	ECT sensor or related circuit malfunction	Transaxle range sensor malfunction (ATX)	Brake switch or related circuit malfunction	A/F sensor or HO2S or related circuit malfunction	IAT sensor No.1 (integrated in MAF sensor/ IAT sensor No.1) or related circuit malfunction	Fuel pressure sensor or related circuit malfunction	MAP sensor or related circuit malfunction
2 Check en 3 Will not c 4 Hard to s 5 Engine st 6 Cranks no	gine light illum ank art/long crank alls rmally but wil warning light	√errati After s	c start/erratic crank								-			_	
3 Will not c 4 Hard to s 5 Engine st 6 Cranks no 7 "Engine of is indicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	ank art/long crank alls rmally but wil warning light	√errati After s	c start/erratic crank		~										
4 Hard to s' 5 Engine st 6 Cranks no 7 "Engine of is indicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	art/long crank alls rmally but wil warning light	After s			<			Х	Х		Х	Х	Х	Х	Х
5 Engine st 6 Cranks no Engine of 7 "Engine of is indicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	alls rmally but wil warning light	After s			^										
6 Cranks no Engine oi 7 "Engine oi is indicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	rmally but wil								Х			Х		Х	
7 Engine oi si ndicate 8 Engine ru 9 Fast idle/s 10 Low idle/s Engine ru Misses Buck/jerk Hesitation	warning light	II not s	start/at idle			Х	Х		Х			Х		Х	
7 "Engine Control is indicated as Engine ruge of the control is indi	warning light							Х	Х			Х		Х	
9 Fast idle/s 10 Low idle/s Engine st Engine ru Misses Buck/jerk Hesitation	d in TFT LCD	rspecti	nates/message ion Required"												
Engine st Engine ru Misses Buck/jerk Hesitation	ns rough/rollir	ng idle	1					Х	Х					Х	Х
Engine st Engine ru Misses Buck/jerk Hesitatior	uns on								Х						
Engine ru Misses Buck/jerk Hesitation	talls during de	eceler	ation						Х		Х	Х		Х	
11 Misses  Buck/jerk  Hesitation	alls/quits	Accele	eration/cruise		Χ				Х				Х	Х	Х
Buck/jerk Hesitation	ns rough	Accele	eration/cruise		Χ				Х				Х	Х	Х
Buck/jerk Hesitation		Accele	eration/cruise		Χ				Х				Х	Х	Х
		Accele	eration/cruise/deceleration		Χ				Х				Х	Х	Х
_	/stumble	Accele	eration		Х				Х				Х	Х	Х
Surges		Accele	eration/cruise		Х				Х				Х	Х	Х
12 Lack/loss	of power	Accele	eration/cruise						Х				Х	Х	Х
13 Knocking	pinging	Accele	eration/cruise										Х	Х	Х
14 Poor fuel	economy								Х				Х	Х	Х
15 Emission	compliance								Х			Χ	Х	Х	Х
16 High oil c	nsumption/le	eakage	•												
	stem concer		Overheating												
18 Cooling s	stem concer	ns	Runs cold												
19 Exhaust s	moke								Х			Х	Х		Х
20 Fuel odor	(in engine co	mpart	ment)												
21 Engine no	ise														
22 Vibration	concerns (eng	gine)													
23 A/C does	not work suffi	iciently	1												
24 A/C is alw	ays on or A/C	comp	pressor runs continuously												
	-		open throttle conditions												
	ulphur smell							Х							
	condition			+				^							
28 ATX cond		Up	shift/downshift/engagement	5									I NSAXLE , FW6A)		

																	X: Ap	plied
			Possible factor	£		uit)												
Trou	ubleshooting item			Intake CMP sensor damaged (e.g.open or short circuit)	Intake CMP sensor pulse wheel (intake camshaft) damaged	Exhaust CMP sensor damaged (e.g.open or short circuit)	Exhaust CMP sensor pulse wheel (exhaust camshaft) damaged	Improper gap between CKP sensor and pulse wheel	CKP sensor damaged (e.g.open or short circuit)	CKP sensor pulse wheel damaged	CPP switch or related circuit malfunction (MTX)	Neutral switch or related circuit malfunction (MTX)	MAF sensor or related circuit malfunction	KS or related circuit malfunction	TP sensor or related circuit malfunction	APP sensor or related circuit malfunction	Improper vehicle speed signal	Cruise control system operation improper
1	Blown fuses																	
2	Check engine light illu	uminate	S	Х		Х		Х					Х	Х	Х	Х	Х	
3	Will not crank												Х					
4	Hard to start/long crai	nk/errat	ic start/erratic crank	Х	Х	Х	Х	Х	Х	Х			Х					
5	Engine stalls		start/at idle	Х	Х	Х	Х	Х	Х	Х			Х			Х		
6	Cranks normally but v			Х	Х	Х	Х	Х	Х	Х			Х			Х		
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT LC	Inspect																
8	Engine runs rough/rol	lling idle	)	Х	Х	Х	Х	Х	Х	Х			Х			Х		
9	Fast idle/runs on										Х	Х				Х		Х
10	Low idle/stalls during	deceler	ration	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х		
	Engine stalls/quits	Accel	eration/cruise	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	
	Engine runs rough	Accel	eration/cruise	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	
11	Misses		eration/cruise	Х	Х	Х	Х	Х	Х	Χ	Х	Х	Х		Х	Х	Х	$\sqcup$
''	Buck/jerk	Accel	eration/cruise/deceleration	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	
	Hesitation/stumble		eration	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	
	Surges	<u> </u>	eration/cruise	X	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	X	
12	Lack/loss of power		eration/cruise	X	X	X	X	Х	Х	Х	Х	Х	X			X	Х	$\vdash$
13	Knocking/pinging	Accel	eration/cruise	X	X	X	X		.,				X	Х		X		
14	Poor fuel economy			X	X	X	X	X	X	X			X			X	X	$\vdash$
15	Emission compliance			Х	Х	Х	Х	Х	Х	Х			Х		Х	Х	Х	$\vdash$
16 17	High oil consumption/		Overheating														$\vdash$	$\vdash\vdash$
18	Cooling system conce		Runs cold														$\vdash$	$\vdash\vdash$
19	Exhaust smoke	01110	Tidilo dold					Х					Х		Х	Х	Х	$\vdash$
20	Fuel odor (in engine of	compart	ment)												^			
21	Engine noise	- p	,															
22	Vibration concerns (e	ngine)																
23	A/C does not work su		у															
24			pressor runs continuously															
25			open throttle conditions													Х		
26	Exhaust sulphur smel															ļ .		
27	Spark plug condition																	
28	ATX concerns	Up	shift/downshift/engagement				See Secti 1PTOM T											

																	)	<b>⟨</b> : Ap	plied
			Possible factor																
Tro	ubleshooting item			A/C system improper operation	Improper refrigerant charging amount	A/C relay (A/C control signal circuit) malfunction	A/C compressor magnetic clutch malfunction	Clutch slippage (MTX)	ATX related parts malfunction (ATX)	Improper ATF level (ATX)	Brake dragging	Loose parts	Improper balance of wheels and tires	Drive line malfunction	Suspension malfunction	Immobilizer system operating properly	Immobilizer system or related circuit malfunction	Advanced keyless entry system malfunction	i-stop system improper operation
1	Blown fuses																		
2	Check engine light ill	uminates	8																
3	Will not crank															Х	Х	Х	Х
4	Hard to start/long cra	ank/errati	c start/erratic crank																
5	Engine stalls	After	start/at idle	Х	Х	Х													
6	Cranks normally but	will not s	tart																
7	Engine oil warning lig "Engine Oil Pressure is indicated in TFT L	Inspecti																	
8	Engine runs rough/ro	olling idle		Х	Х	Х												Ш	
9	Fast idle/runs on					Х													
10	Low idle/stalls during	deceler	ation	Х			Х					Х							
	Engine stalls/quits	Accele	eration/cruise	Х				Х	Х			Х						$\square$	
	Engine runs rough	_	eration/cruise	Х				Х	Х			Х						$\square$	
11	Misses	_	eration/cruise	Х				Х	Х			Χ						$\sqcup$	
' .	Buck/jerk	Accele	eration/cruise/deceleration	X				Х	Х			Х						$\sqcup$	
	Hesitation/stumble		eration	Х				Х	Х			Χ						$\sqcup$	
	Surges		eration/cruise	X				Х	Х			Х						$\sqcup$	
12	Lack/loss of power		eration/cruise	X		Х		Х			Х							$\vdash \vdash$	
13	Knocking/pinging	Accel	eration/cruise		-													$\vdash \vdash$	
14	Poor fuel economy			Х				Х		Х	Х							$\vdash \vdash$	
15	Emission compliance																	$\vdash \vdash$	
16	High oil consumption			1,-														$\vdash$	
17	Cooling system cond		Overheating	X	Х													$\vdash\vdash$	$\square$
18	Cooling system cond	erns	Runs cold	-														$\vdash\vdash$	$\square$
19	Exhaust smoke Fuel odor (in engine	compart	ment)															$\vdash\vdash\vdash$	
21	Engine noise	oompart	mony									Х						$\vdash$	
22	Vibration concerns (	engine)										X	Х	Х	Х			$\vdash$	$\vdash$
23	A/C does not work s			Х	Х	Х	Х					^	^	^	^			$\vdash$	
24			pressor runs continuously	X	^	X	X											$\vdash$	H
25			open throttle conditions	<b> ^</b>		^	^											$\vdash\vdash\vdash$	$\vdash$
26	Exhaust sulphur sme		open anothe conditions															$\vdash\vdash\vdash$	
27	Spark plug condition																	$\vdash\vdash\vdash$	$\vdash$
- 21	Spark plug coriuition				1	I	800	S00#:	on OF		DANIC	SMICO		TDAN	ICAV		1		
28	ATX concerns	Up	shift/downshift/engagement			SY				-03 T BLESI						AX-EI	L]		

												ı						IIEC
			Possib	e factor				tion										
					i-stop OFF switch malfunction	Instrument cluster malfunction	Driver-side buckle switch malfunction	Door latch switch or liftgate latch switch malfunction	Bonnet latch switch malfunction	Battery malfunction (deterioration)	Ambient temperature sensor malfunction	ABS wheel-speed sensor malfunction	Clutch stroke sensor malfunction (MTX)	Steering angle sensor malfunction	Driver-side air mix actuator malfunction	Climate control unit malfunction	Battery fluid temperature sensor malfunction	Keyless antenna malfunction
	bleshooting item					므	△	۵	Ğ	ñ	Ā	₹	ਹ	S	۵	ਹ	m	ᇫ
1	Blown fuses									Ш								
2	Check engine light ill	uminate	S															
3	Will not crank	nk/e ==== 1	io atart/arratio arank															$\vdash$
5	Hard to start/long cra Engine stalls		start/erratic crank															
6	Cranks normally but																	
-	Engine oil warning lig																	
7	"Engine Oil Pressure is indicated in TFT Le	Inspect				х												
8	Engine runs rough/ro	lling idle	)															
9	Fast idle/runs on																	
10	Low idle/stalls during	decele	ation															
	Engine stalls/quits	Accel	eration/cruise															
	Engine runs rough	Accel	eration/cruise															
11	Misses	Accel	eration/cruise															
	Buck/jerk	Accel	eration/cruise/deceleration															
	Hesitation/stumble	Accel	eration															
	Surges	Accel	eration/cruise															
12	Lack/loss of power	+	eration/cruise															
13	Knocking/pinging	Accel	eration/cruise															
14	Poor fuel economy																	
15	Emission compliance																	
16	High oil consumption																	
17	Cooling system cond		Overheating															
18	Cooling system cond	erns	Runs cold															
19	Exhaust smoke		mant\															
20	Fuel odor (in engine	compan	ment)															
21	Engine noise	naina)																
22	Vibration concerns (		,															
23	A/C does not work s																	
24	-		pressor runs continuously															
25			open throttle conditions															
26	Exhaust sulphur sme	ell																
27	Spark plug condition																	
28	ATX concerns	Ups	hift/downshift/engagement	See SYMP1									N/T V6A					_]