

Diagnosis Codes 4EFTE/4EFE

Diagnosis Codes for the 4EFTE/4EFE engine.

4EFET = 4efte(turbo)

4EFE = 4efe(non turbo)

cut out = disconnected wires(usually check sensor plug)

short circuit = exposed wires(the positive and the negative) are touching each other

- Anything within "{ }" is my added interpretation.

- Oh and the term "goes off" means the check engine light code will turn on in the dashboard.

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for help with the translation.

Enjoy ,

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<u>Code #</u>	<u>Diagnosis item</u> <u>[Terminal code/sign]</u>	<u>Diagnosis content</u>	<u>Check/inspection/service</u> <u>-parts/regions</u>
		① <u>diagnosis condition</u> ② <u>abnormality</u> <u>state/situation</u> ③ <u>time of abnormality</u> ④ <u>other</u>	
12	Turn Signal System 1 [NE, G1 (4E-FET)]	① During cranking ② G1 or NE signal aren't on/{or being} input ③ {For} More than 5 seconds	<ul style="list-style-type: none"> ● Wire harness and connector (G,NE signal system) ● Distributor ● Engine control computer
13	Turn Signal system 2 [NE]	① Engine revolution times more than 1500 rpm{This code only occurs at this rpm or higher} ② NE signal isn't on/input	<ul style="list-style-type: none"> ● Wire Harness and connector ● 11A, Distributor, (NE?) ● Engine Control computer

		③ {For} More than 1 second	
14	ignition signal system [IGF, IGT]	① During Idling ② Though IGT signal is on/ {or being} input, IGF is not on/{or being} input. ③ {For} More than 1 second	<ul style="list-style-type: none"> ● Wire harness and connecter (Igniter + B system) ● Igniter, ignition coil ● Engine control computer
16	ECT, CPU system [4E-FET A/T]	① IG switch is on ② ETC, CPU abnormality ③ {For}More than 1 second	<ul style="list-style-type: none"> ● Engine control computer
21	O2 sensor signal system [4x]	① After warming up the engine, the engine revolution times{are}-more than 2500 rpm{This code only occurs at this rpm or higher} ② O2 sensor-output voltage/pressure/te nsion is under 0.3{volts} ③ {For}More than 5 seconds	<ul style="list-style-type: none"> ● O2 sensor ● Engine control computer
	O2 sensor heater abnormality [4E-FET]	① IG switch is on ② O2 sensor heater circuit snapped/ parted/cut out- ③ {For}More than 1	<ul style="list-style-type: none"> ● Wire harness and connecter (O2 sensor heater system) ● O2 sensor

		second	<ul style="list-style-type: none"> ● Engine control computer
22	Water temperature signal system [THW,E2]	<ul style="list-style-type: none"> ① IG switch is on ② Water temperature signal system circuit is short-circuit or cut out ③ {For} More than 1 second 	<ul style="list-style-type: none"> ● Wire harness and connector (water temperature sensor system) ● Water temperature sensor ● Engine control computer

24	Absorbing temperature signal system [THA, E2]	<ul style="list-style-type: none"> ① IG switch is on ② Absorbing Temperature ③ {happens if for} More than 5 seconds of sensor circuit{the wires are crossed, or they are disconnected} is short circuit or cut out 	<ul style="list-style-type: none"> ● wire harness and connector (absorbing temperature system) ● absorbing temperature sensor ● engine control computer
25	Lean abnormality system [OX]	<ul style="list-style-type: none"> ① After warming up the engine, the engine revolution times-more than 2500rpm ② O2 sensor doesn't output rich signal ③ More than 60 seconds <ul style="list-style-type: none"> □ 2 trips{I guess if for anything over 60 sec. the sensor is triggered 2 times, then this code goes off?} 	<ul style="list-style-type: none"> ● Wire harness and connector (O2 sensor system) ● O2 sensor ● Fuel system (injector, pressure/ stress?) ● Ignition system(spark plug, igniter?) ● Absorbing temperature sensor (vacuum sensor) ● Engine control

			computer
31	Vacuum sensor signal system [PIM, VC,E2]	① IG switch is on ② Vacuum sensor circuit is short circuit or cut out - <input type="checkbox"/> For more than 1 second	<ul style="list-style-type: none"> ● Wire harness and connecter (vacuum sensor system) ● Vacuum sensor ● Engine control computer
33	ISCV system [RSO,RSC] (4E-FE)	① During idling on ② ISCV circuit is short circuit or cut out - <input type="checkbox"/> For more than 10 seconds	<ul style="list-style-type: none"> ● Wire harness and connecter (ISCV system) ● ISCV ● Engine control computer
34	? [4E-FTE]	②concluding as abnormality, practice fuel cut.	<ul style="list-style-type: none"> ● Wire harness and connecter (Turbo pressure sensor system) ● Turbo pressure sensor ● Turbo charger ● Engine control computer
41	Throttle position sensor signal system	① IG switch is on <input type="checkbox"/> Throttle position sensor is short circuit or cut out <input type="checkbox"/> {For} More than 5 seconds	<ul style="list-style-type: none"> ● Wire harness and connecter (throttle position sensor system) ● Throttle position sensor ● Engine control computer

42	Speed sensor signal system [SPD, SP2(4E-FET9)]	M/T car ① After warming up the engine, the engine revolution times-2000~5000 and running ② Speed sensor signal isn't input (During test mode, speed signal isn't input until TE1 is short circuit) ③ {Code goes off if this is the case	<ul style="list-style-type: none"> ● Wire harness and connecter (O2 sensor system)
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		for} More than 10 seconds	
		<p>A/T car (4E-FE)</p> <ul style="list-style-type: none"> <input type="checkbox"/> After warming up the engine, the engine revolution times-more than 2000-3000rpm and during running, the shift is except P or N range <input type="checkbox"/> Speed sensor signal isn't input (During test mode, speed signal isn't input until TE1 is short circuit) <input type="checkbox"/> {Code goes off if this is the case for} More than 10 seconds 	<ul style="list-style-type: none"> ● Wire harness and connector (O2 sensor system)
		<p>ECT car {Electronically Controlled Transmission-(auto)}(4E-FET)</p> <ul style="list-style-type: none"> <input type="checkbox"/> running by more than 9km/h, the shift is except p or N <input type="checkbox"/> SP2 signal is input, but SP1 signal is not input <input type="checkbox"/> The running distance is more than about 1 km <input type="checkbox"/> 2 trips 	<ul style="list-style-type: none"> ● Wireless harness and connector (O2 sensor system)
43	Starter signal system [STA]	② During test mode, speed signal is not input until TE1 is short circuit	<ul style="list-style-type: none"> ● Wire harness sensor and connector (starter signal system) ● Engine control computer
51	Switch signal system [A/C, IDL(4E-FET) NSW(A/C)]	① During test mode, confirm diag. after the engine starts. But IDL point of diagnosis should be	<ul style="list-style-type: none"> ● Neutral start switch system ● A/C switch system ● Throttle position sensor IDL

		<p>done more than 3 seconds after starting the engine</p> <p>②</p> <ul style="list-style-type: none"> ● The shift should be except P or N (A/T car) ● A/T switch is on ● IDL point off 	<p>system</p> <ul style="list-style-type: none"> ● Engine control computer
52	Knock sensor signal system [KNK]	<p>① After warming up the engine, running by/with the engine revolution times-1800~5000 rpm{after warming up engine or driving the engine, this code only occurs in this rev range}</p> <p>② Knock sensor system circuit is short circuit or cut out{faulty sensor or bad wires}</p> <p>③ More than 5 seconds{I guess this code goes off if engine is knocking for more than 5 seconds}</p>	<ul style="list-style-type: none"> ● Wire harness and connector (O2 sensor system) ● Engine control computer

53	Knock (shift?)CPU system (4E-FTE)	<p>① Running with Engine revolution times-500~6000rpm{I guess this code only occurs in this rev range}</p> <p>② Knock (shift?) CPU abnormality</p> <p>③ {Occurs if} More than 1 second</p>	<ul style="list-style-type: none"> ● Engine control computer
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