



REFERENCE VALUE OF ECM DATA

EG397-01

HINT: ECM data can be monitored by TOYOTA hand-held tester.

1. Hook up the TOYOTA hand-held tester to DLC1.
2. Monitor ECM data by following the prompts on the tester screen.

Please refer to the TOYOTA hand-held tester operator's manual for further details.

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REFERENCE VALUE

Item	Inspection condition	Reference value
INJECTOR	Engine cold to hot Engine idling at normal operating temperature	Gradually decreases Approx. 3 msec
IGNITION	Increase engine speed	Gradually increases
IAC STEP	Engine idling at normal operating temperature A/C switch ON A/T shifting in "D" position Ignition switch ON (Do not start engine.)	40 ± 10 steps Step increases Step increases Approx. 125 steps
ENGINE SPEED	RPM kept stable (Comparison with tachometer)	No great changes
VAF	Engine idling increase engine speed	Approx. 1.2 - 2.4 V Gradually increases
ECT	Engine at normal operating temperature	75 - 95° C (167 - 203° F) *1
THROTTLE	Closed throttle position Wide open throttle From closed throttle position to wide open throttle	Below 5° Above 70° Gradually increases
SPD VEHICLE	During driving (Comparison with speedometer)	No large differences
TARGET No.1	Engine idling at normal operating temperature	2.50 ± 1.25 V *2
TARGET No.2	Engine idling at normal operating temperature	2.50 ± 1.25 V *2
A/F FB No. 1	RPM stable at 2500 rpm with normal operating temperature	ON
A/F FB No.2	RPM stable at 2500 rpm with normal operating temperature	ON
STA SIGNAL	During cranking	ON
CTP SIGNAL	Closed throttle position	ON
A/C SIGNAL	A/C switch ON	ON
PNP SIGNAL	When shifting from "P" or "N" position into a position other than "P" or "N".	GEAR
Ox No. 1	RPM stable at 2500 rpm	RICH LEAN is repeated.
Ox No.2	RPM stable at 2500 rpm	RICH LEAN is repeated.

*1: If the engine coolant temperature sensor circuit is open or shorted, the ECM assumes an engine coolant temperature value of 80°C (176° F).

*2: When feedback control is forbidden, 0 V is displayed.