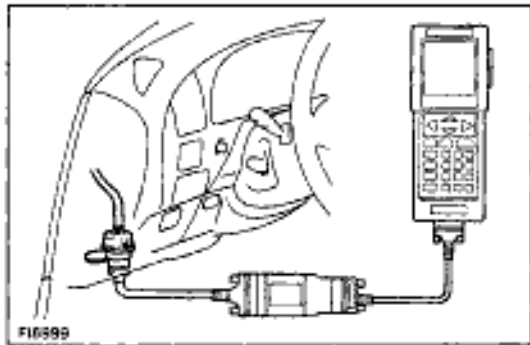


REFERENCE VALUE OF ECM DATA



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

1. Hook up the TOYOTA hand-held tester to the DLC2.
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.

REFERENCE VALUE

Item	Inspection condition	Reference value
INJECTOR	Engine cold to hot Engine idling at normal operating temp.	Gradually decreases Approx. 2 ~ 5 msec
IGNITION	Increase engine speed	Gradually increases
IAC DUTY	Engine idling at normal operating temp.	30~60%
ENGINE SPEED	RPM kept stable (Comparison with tachometer)	No great changes
MAP	Engine idling at normal operating temp. increase engine load	Approx. 180 ~ 280 mm Hg Gradually increases
ECT	Engine at normal operating temp.	75 – 95°C (185 – 203°F) *1
THROTTLE	Closed throttle position Wide open throttle From closed throttle position to wide open throttle	Below 5° Above 70° Gradually increases
VEHICLE SPD	During driving (Comparison with speedometer)	No large differences
TARGET A/F L	Engine idling at normal operating temp.	2.50± 1.25 V *2
A/F FB LEFT	RPM stable at 2,500 rpm with normal operating temp.	ON
STA SIGNAL	During cranking	ON
CTP SIGNAL	Closed throttle position	ON
A/C SIGNAL	A/C switch ON	ON
PNP SIGNAL *3	When shifting from "P" or "N" position into a position other than "P" or "N"	G EAR
OxL	PRM stable at 2,500 rpm with normal operating temp.	RICH LEAN is repeated

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

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

*3: A/T only.