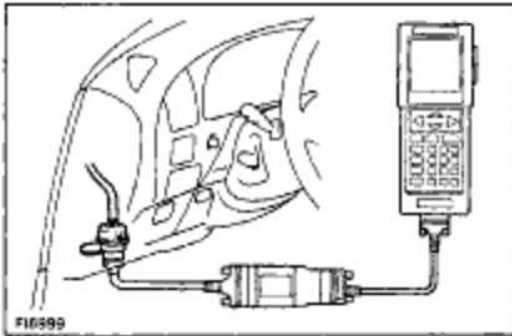


EG1-326

5S-FE ENGINE - REFERENCE VALUE OF ECM DATA

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 51 Above 701 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.