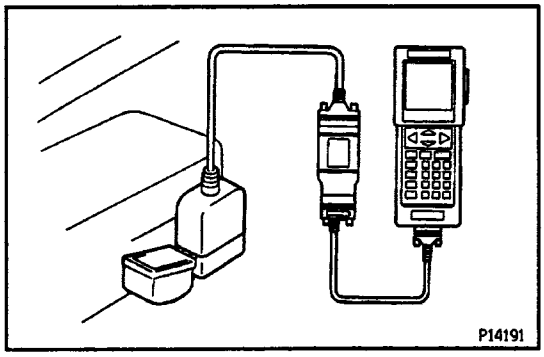

REFERENCE VALUE OF ECM DATA

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

1. Hook up the TOYOTA hand–held tester to 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.

REFERENCE VALUE FOR ECM DATA (Engine at normal operating temperature)

Item	Inspection condition	Reference value
INJECTOR	Engine cold to hot Engine idling at normal operating temperature *1	Gradually decreases Approx. 2.2 – 2.7 m secs
IGNITION	Increase engine rpm	Gradually increases
ENGINE SPEED	RPM kept stable (Comparison with tachometer)	No great changes
VAF	Engine idling at normal operating temperature *1 Increase engine speed	Approx. 2.2 –3.4 V Gradually increases
ECT	Engine at normal operating temperature	75 – 95° C (167 – 203° F) *2
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 "odometer)	No large differences
TARGET A / F No.1	Engine idling	2.50 ± 1.25 V *3
KNOCK FS	Depress throttle pedal suddenly during idling	ON
A/F FB No. 1	RPM stable at 2,500 rpm	ON
STA SIGNAL	During cranking	ON
CTP SIGNAL	Closed throttle position	ON
A/C SIGNAL	A/C switch ON	ON
PNP SIGNAL *4	–	GEAR
Ox No. 1	RPM stable at 2,500 rpm	RICH LEAN is repeated

*1: All accessories and A/C are switched OFF.

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

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

*4: A/T only.