05DVV–03

READING REGISTERED DATA

NOTICE:

- **If an injector has been replaced, the injector's compensation code must be registered to the ECM. If an ECM has been replaced, all of the injector's compensation code must be registered to the ECM.**
- **If an incorrect injector compensation code was registered to the ECM, the engine assembly may rattle, engine idling may become rough, the life of the engine may shorten and engine failure may result.**

1. If you replace the ECM with a new one, register all the injector compensation codes to the new ECM as follows:

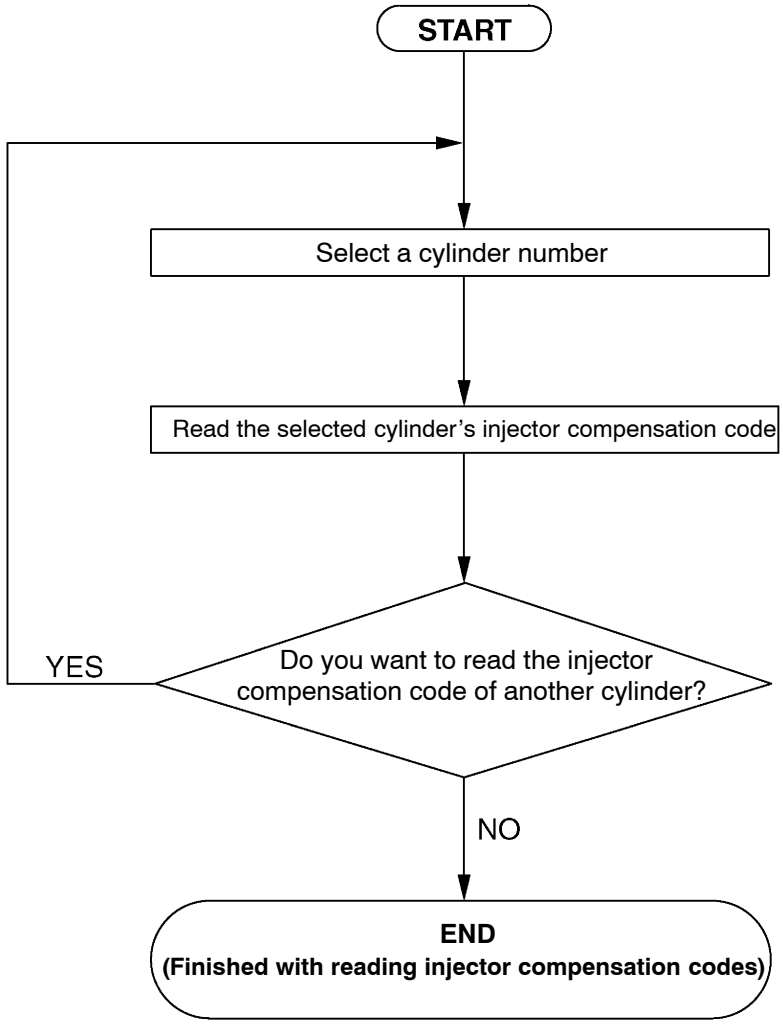
(a) Prior to replacing the ECM, read all the injector compensation codes stored in the existing ECM using the hand–held tester, and then write them down.
(b) After replacing the ECM, register the written injector compensation codes to the ECM using the hand–held tester (see page 05–17).
(c) Turn the ignition switch OFF and turn the hand–held tester OFF. Then wait for 30 seconds or more.
(d) Turn the ignition switch ON and turn the hand–held tester ON. Then clear DTC P1601 using the hand–held tester (see page 05–29).

2. If you replace the injector with a new one, register a compensation code to the new injector as follows:

(a) Replace the injector.
(b) Read the new injector's compensation code which is imprinted on the head portion of the injector.
(c) Register the compensation code to the ECM using the hand–held tester (see page 05–17).
(d) Turn the ignition switch OFF and turn the hand–held tester OFF. Then wait for 30 seconds or more.
(e) Turn the ignition switch ON and turn the hand–held tester ON. Then clear DTC P1601/89 using the hand–held tester (see page 05–29).

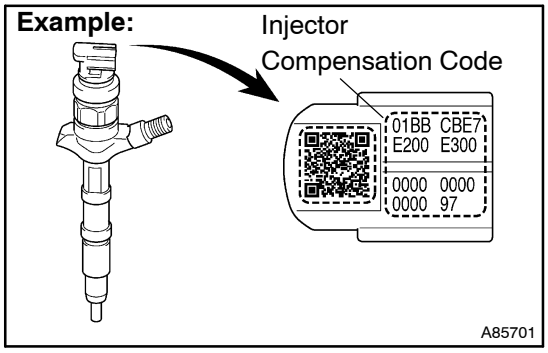
HINT:
Each injector has different fuel injection characteristics. In order to balance the difference between each injector's fuel injection duration, the ECM uses a 30–digit alphanumeric value that is unique for each injector. The value is written on the head portion of each injector and is known as the injector compensation code.

Reading Injector Compensation Codes



Y A91211

A96610



3. READ INJECTOR COMPENSATION CODE

HINT:

The injector compensation code is imprinted on the head portion of the injector.

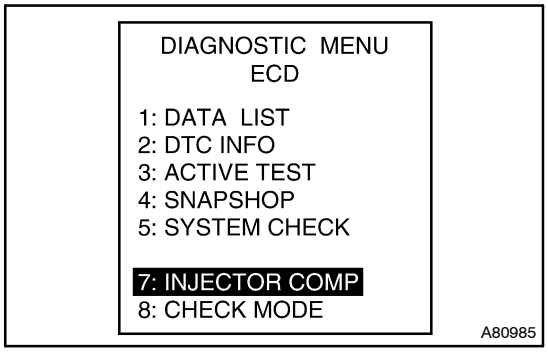
(a) Connect the hand–held tester (with 24 V VIM) to the DLC3.

(b) Turn the ignition switch ON.

(c) Turn the hand–held tester ON.

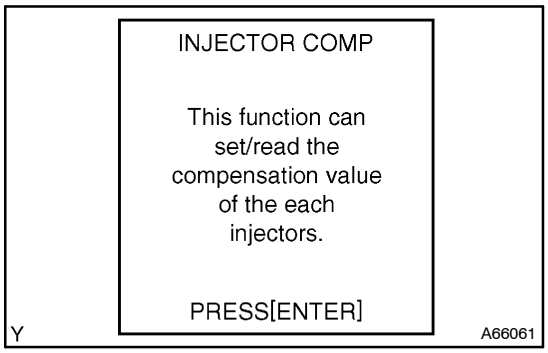
NOTICE:

Do not start the engine.

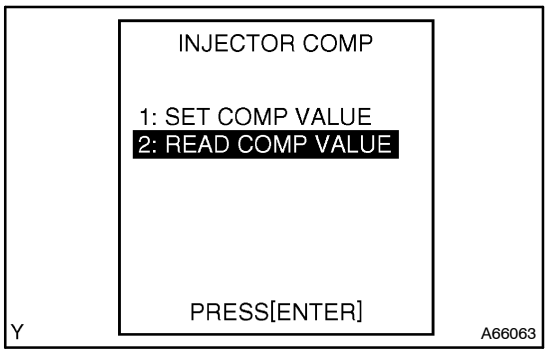


(d) Enter these menu options in this order: ”DIAGNOSIS / OBD/MOBD / DIAGNOSTIC MENU ECD”. Then select ”INJECTOR COMP”.

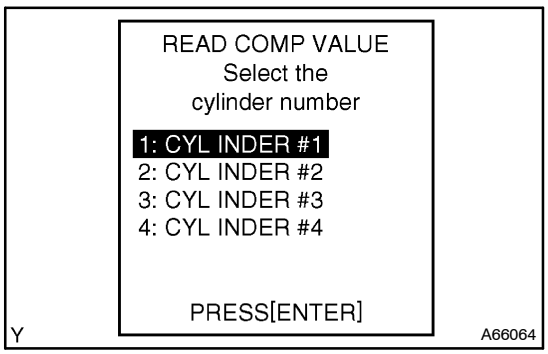
(e) Press ”ENTER”.



(f) Press ”ENTER” again.

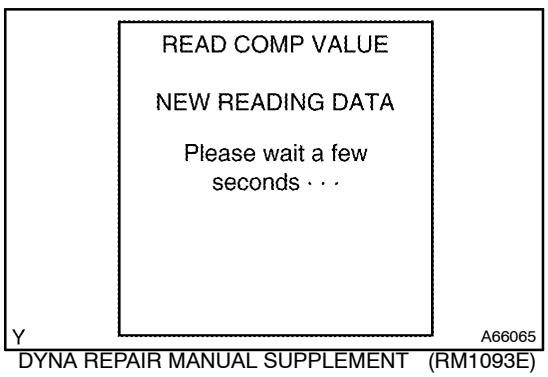


(g) Select ”READ COMP VALUE” and press ”ENTER”.

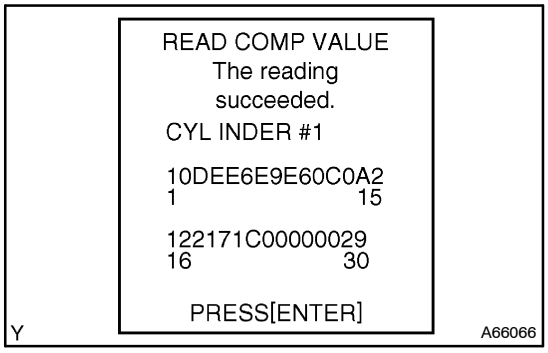


(h) Select a cylinder number for the compensation code you want to read.

(i) Press ”ENTER”.



(j) Wait until the next screen appears.

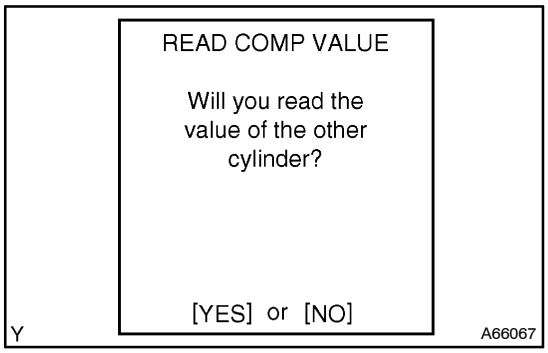


(k) Confirm the 30–digit alphanumeric code which is displayed on the hand–held tester. This is the injection compensation code of the cylinder.

HINT:

The code shown in the illustration is an example of a 30–digit code.

(l) Press ”ENTER” to exit this screen.



(m) Press the ”NO” button to complete the confirmation.

HINT:

- If you want to read other compensation codes for the other cylinders, press ”YES” instead of ”NO”.
- By pressing ”NO”, the hand–held tester returns to the ”DIAGNOSTIC MENU ECD” screen.