05L1X–01

REGISTRATION

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 compensation codes stored in the existing ECM using the hand–held tester, and then write them down (see page 05–13).

(b) After replacing the ECM, enter the written compensation codes into the ECM using the hand–held tester.

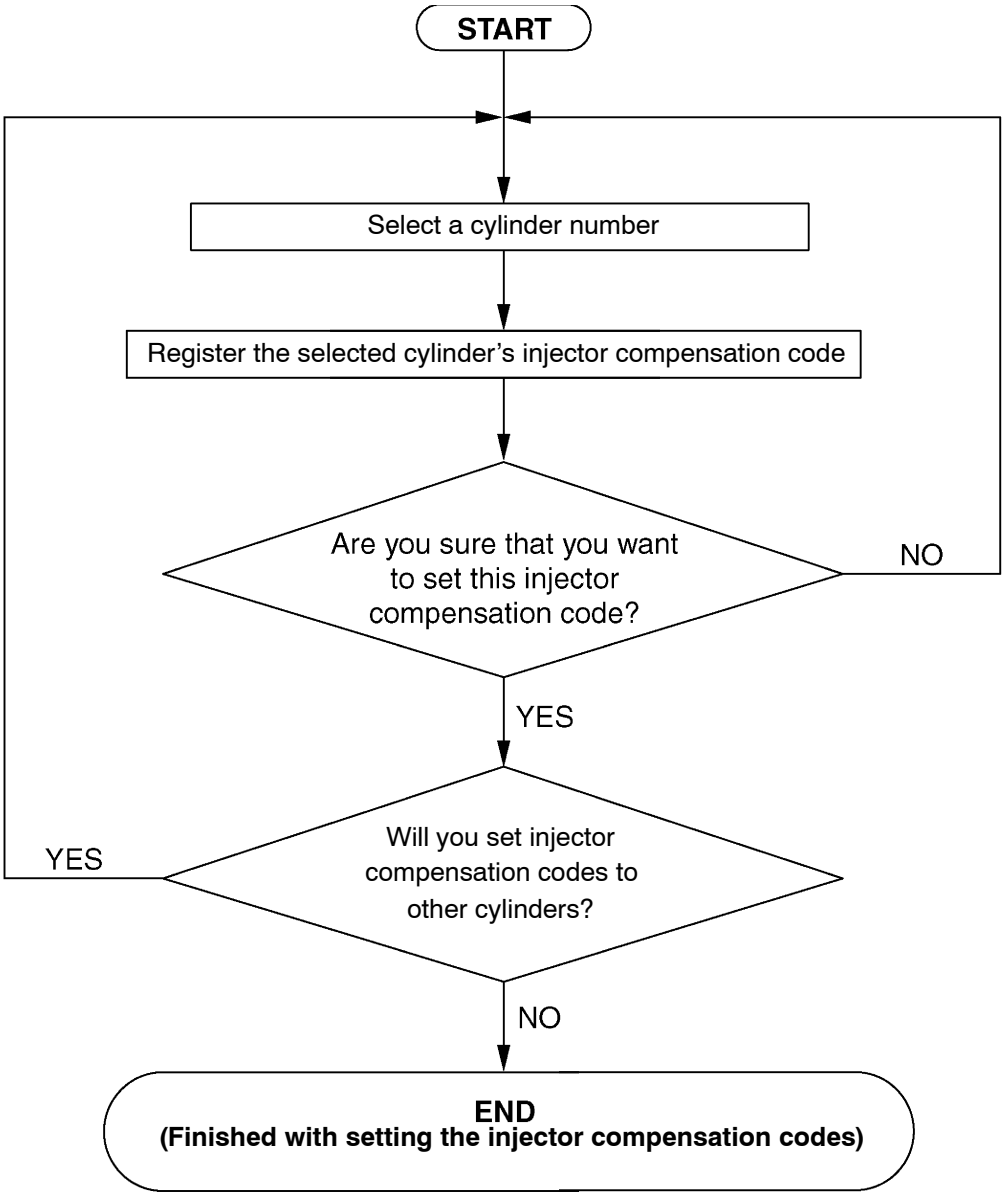
(c) Turn the ignition switch OFF and turn the hand–held tester OFF. Then wait for 30 seconds or more.

(d) Turn the ignition switch ON and turn the hand–held tester ON. Then clear DTC P1601/89 using the hand–held tester (see page 05–29).

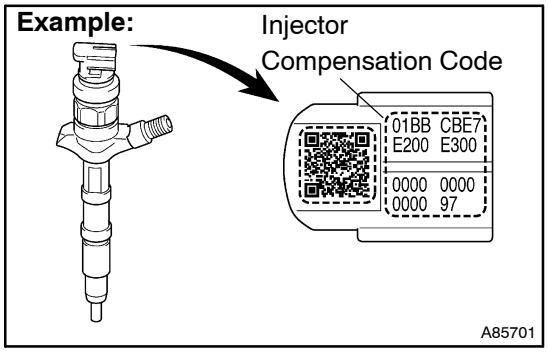
HINT:

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.

Setting Injector Compensation Codes



Y A96612 A97715



2. SET INJECTOR COMPENSATION CODE

HINT:

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

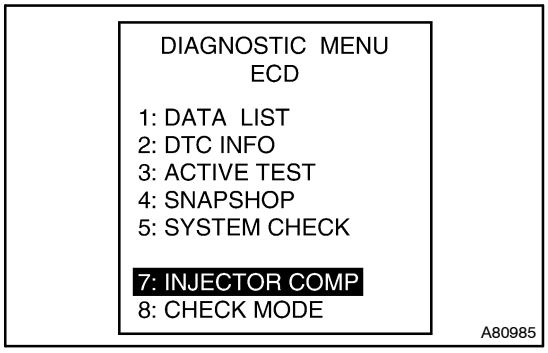
(a) Connect the hand–held tester (with 24 V VIM) to the DLC3.

(b) Turn the ignition switch ON.

(c) Turn the hand–held tester ON.

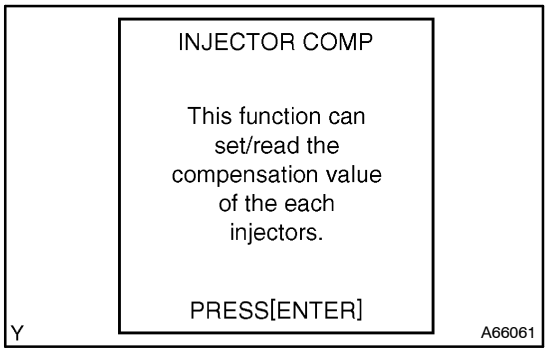
NOTICE:

Do not start the engine.

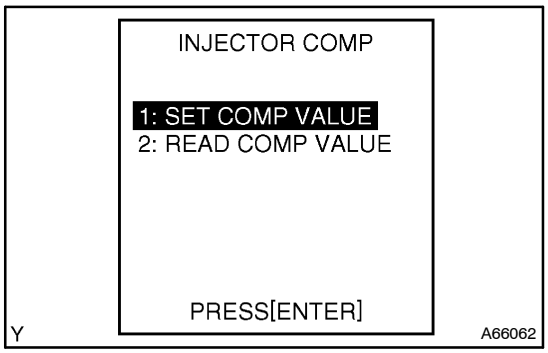


(d) Enter these menu options in this order: ”DIAGNOSIS / OBD/MOBD / DIAGNOSTIC MENU ECD”. Then select ”INJECTOR COMP”.

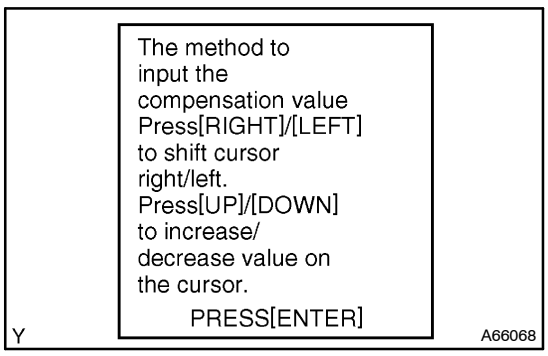
(e) Press ”ENTER”.



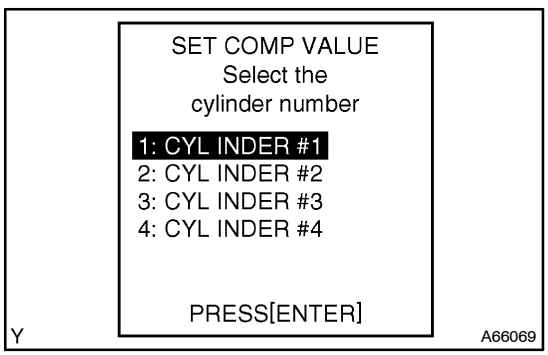
(f) Press ”ENTER” again.



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

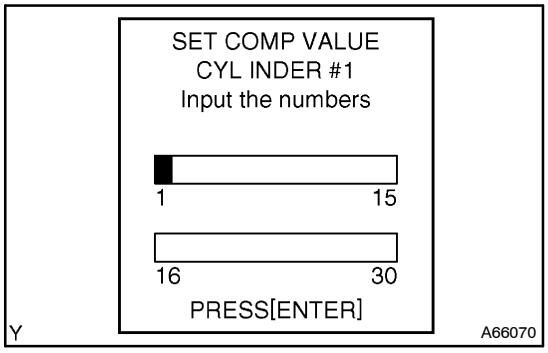


(h) Press ”ENTER”.



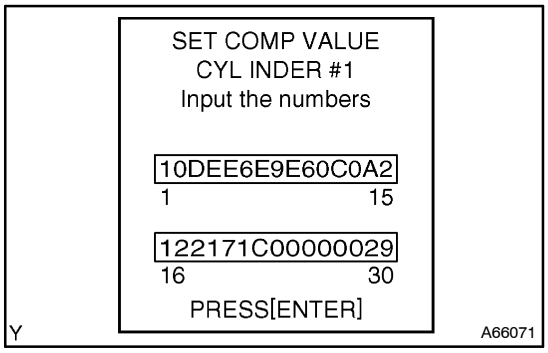
(i) Select a cylinder number for the cylinder in which you want to register the compensation code.

(j) Press ”ENTER”.

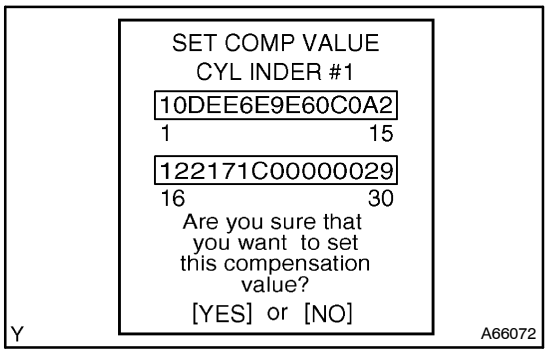


(k) Input the compensation code (30–digit alphanumeric value).

(l) After inputting, press ”ENTER”.



(m) Press ”ENTER” again.



(n) Confirm the injection compensation code displayed on the hand–held tester.

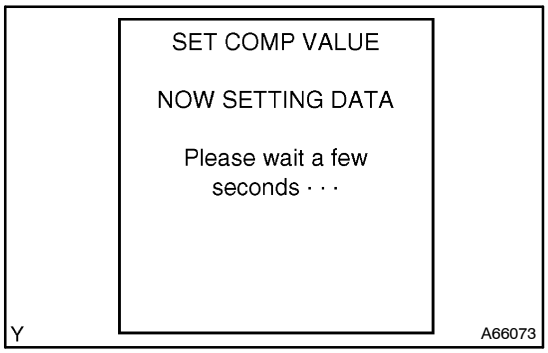
HINT:

- The code shown in the illustration is an example.
- If a wrong compensation code registered, press ”NO” to correct the error (back to step [g]).

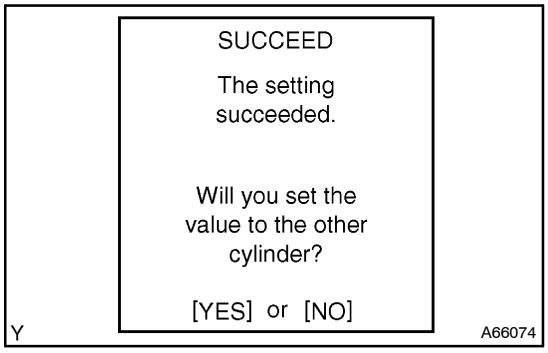
NOTICE:

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.

(o) Press ”YES” to set the code to the ECM.



(p) Wait until the next screen appears.



(q) Press ”NO” to complete the registration.

HINT:

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

(r) Turn the ignition switch OFF and wait for 30 seconds or more.