05L6N–08

READING REGISTERED DATA

NOTICE:

- **When an injector is replaced, the injector's compensation code must be input into the ECM. When the ECM is changed, all of the existing injector compensation codes must be input into the new ECM.**
- **Injector compensation codes are unique, 30–digit, alphanumeric values printed on the head portion of each injector. If an incorrect injector compensation code is input into the ECM, the engine assembly may rattle or engine idling may become rough. In addition, engine failure may occur and the life of the engine may be shortened.**

1. After replacing the injector(s) with a new one(s), input the compensation code(s) of the injector(s) into the ECM as follows:

(a) Input the compensation code(s), which is/are imprinted on the head portion(s) of the new injector(s), to the intelligent tester II.
(b) Input the new compensation code(s) into the ECM using the tester (see page 05–447).
(c) Turn the ignition switch OFF and then turn the intelligent tester II OFF.
(d) Wait for at least 30 seconds.
(e) Turn the ignition switch ON and then turn the intelligent tester II ON.
(f) Clear DTC P1601/89 stored in the ECM using the intelligent tester II (see page 05–466).

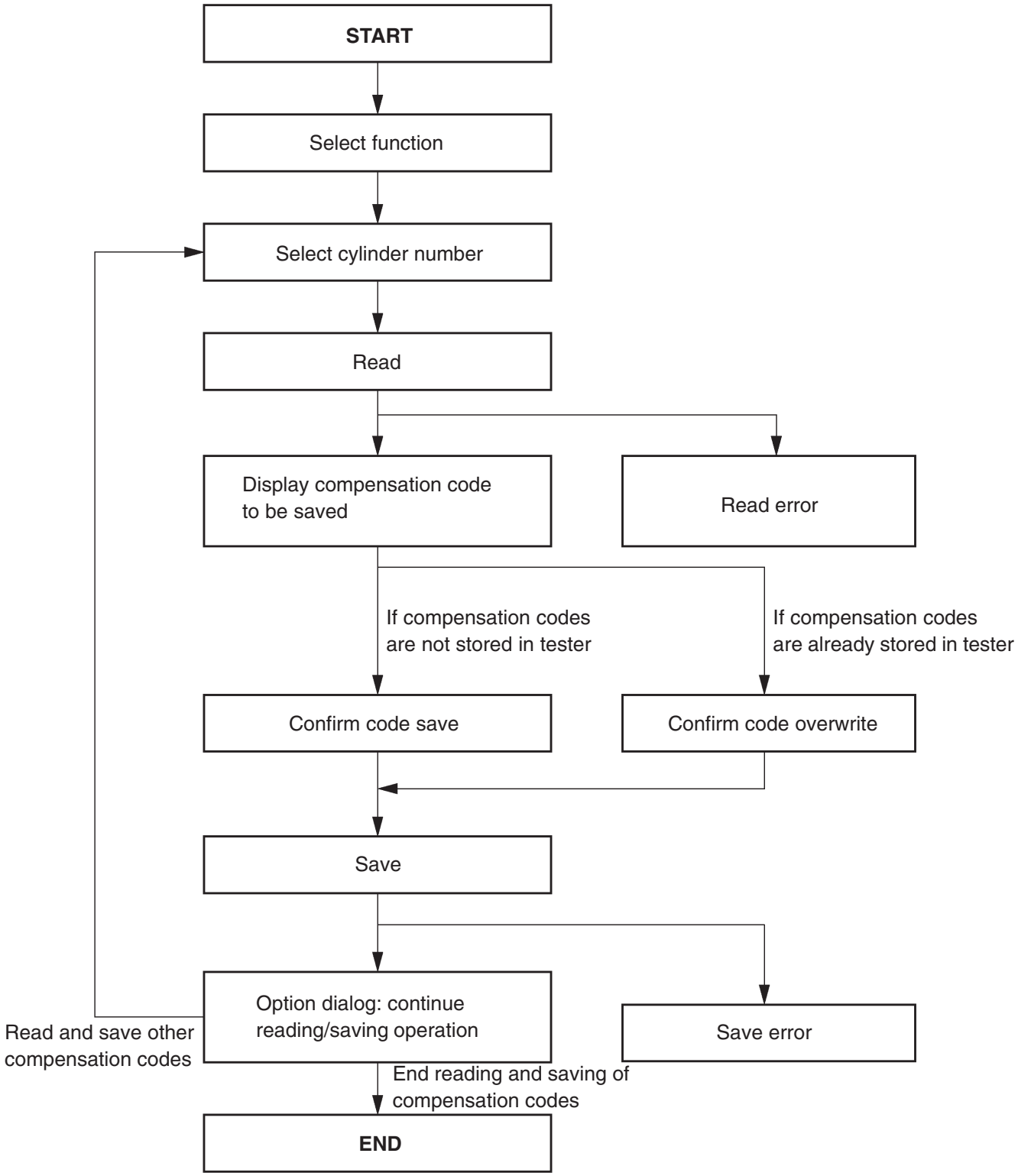
2. When replacing the ECM with a new one, input all the injector's compensation codes into the new ECM as follows:

(a) Prior to replacing the ECM, use the intelligent tester II to read and save each injector's compensation code. The codes are stored in the original ECM.
(b) After installing a new ECM, input the saved compensation codes into the new ECM using the tester (see page 05–447).
(c) Turn the ignition switch OFF and then turn the intelligent tester II OFF.
(d) Wait for at least 30 seconds.
(e) Turn the ignition switch ON and then turn the intelligent tester II ON.
(f) Clear DTC P1601/89 stored in the ECM using the tester (see page 05–466).

HINT:

- Each injector has different fuel injection characteristics. In order to optimize the fuel injections, the ECM uses the compensation codes to balance the different fuel injections between each injector.
- When you first turn the ignition switch ON after replacing the ECM or an injector(s), DTC P1601/89 is set. This is to inform you that an injector compensation code(s) is/are required to be registered. Manually clear the DTC upon completion of the compensation code registration.

How to read and save injector compensation codes using intelligent tester II (Conduct prior to replacing the ECM)

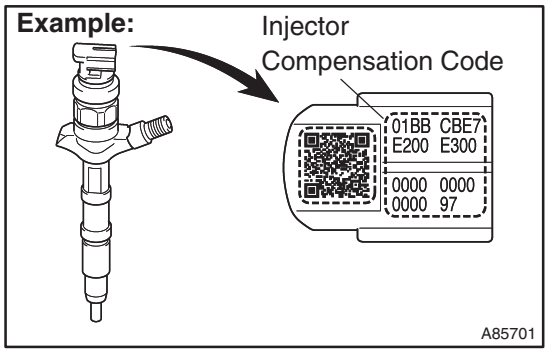


Proceed to registration procedure (see page 05–447)

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HINT:
The following operation is available with ECMs that can transmit the registered injector compensation codes to the intelligent tester II.



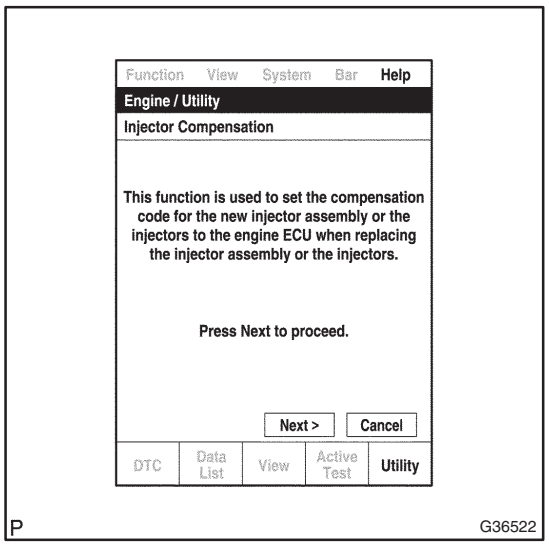
3. READ AND SAVE INJECTOR COMPENSATION CODES

(a) Connect the intelligent tester II to the DLC3.
(b) Turn the ignition switch ON.
(c) Turn the intelligent tester II ON.

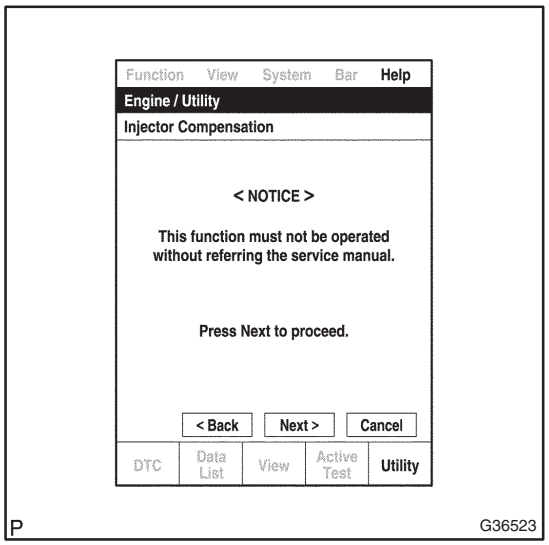
NOTICE:
Do not start the engine.

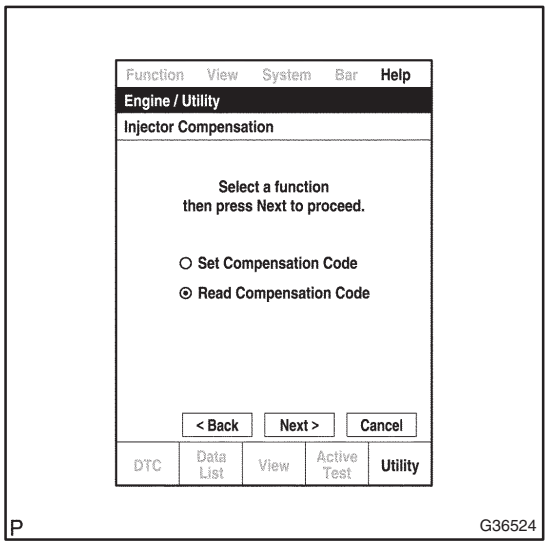
HINT:
The injector compensation code is imprinted on the head portion of each injector.

(d) Enter menu options in this order: Enter / Powertrain / Engine / Utility / Injector Compensation.
(e) Press Next.

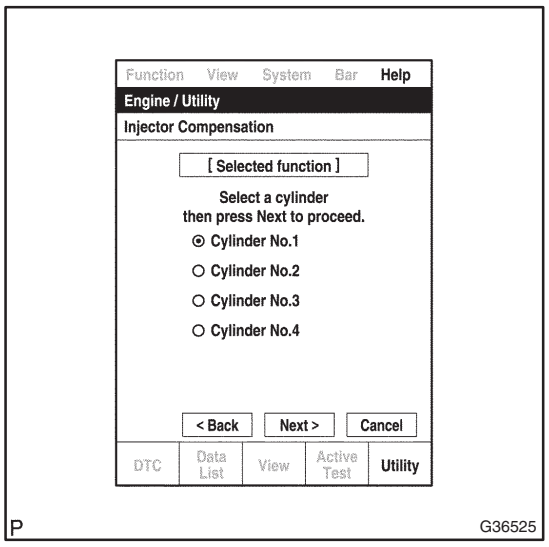


(f) Press Next again to proceed.





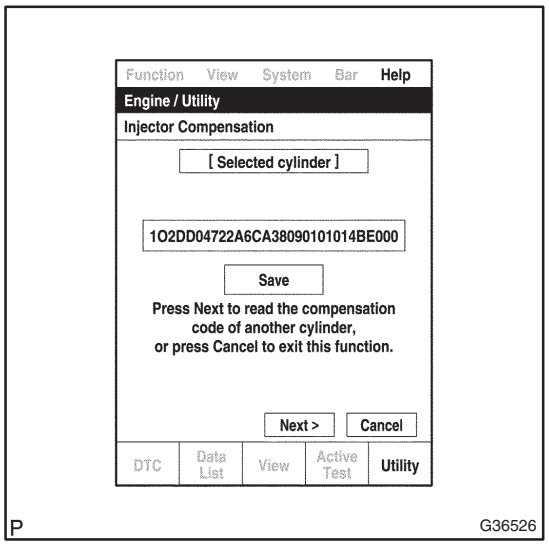
(g) Select Read Compensation Code.
(h) Press Next.



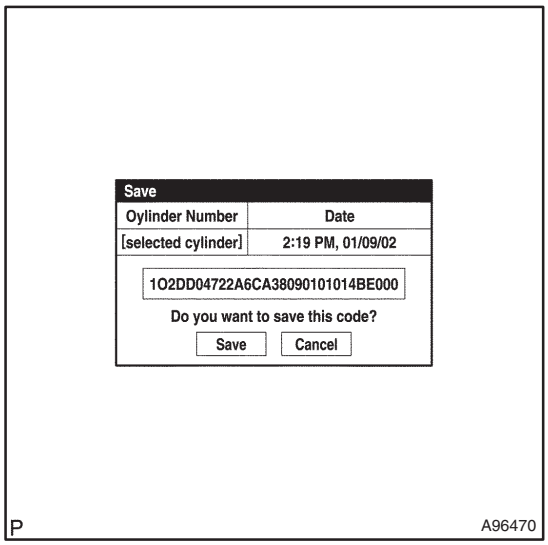
(i) Select the number of the cylinder corresponding to the injector compensation code that you want to read.
(j) Press Next.

HINT:

The reading process may fail due to a problem with the wire harness or a bad connection with the DLC3. Check the wire harness and the DLC3 connection. If no problem is found with either, the ECM may be malfunctioning. Check the ECM and restart this operation.



(k) Check the injector compensation code (30–digit alphanumeric value) displayed on the tester screen.
(l) Press Save.



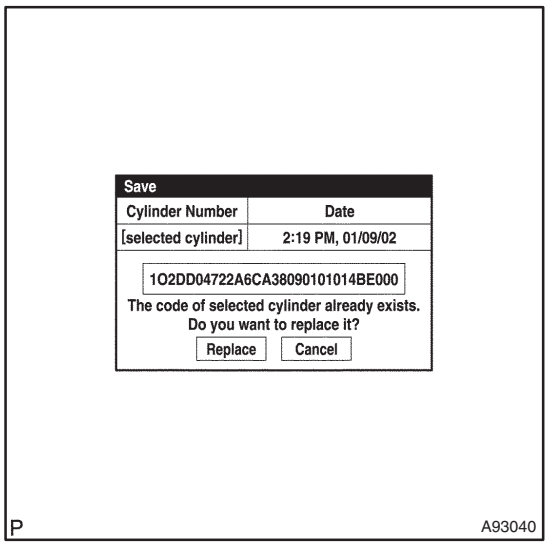
(m) If no injector compensation code for the cylinder exists in the tester:

(1) Check that the compensation code displayed on the tester screen is correct.

(2) Press Save (proceed to step (o)).

HINT:

The saving process may fail due to a problem with the wire harness or a bad connection with the DLC3. Check the wire harness and the DLC3 connection. If no problem is found with either, the ECM may be malfunctioning. Check the ECM and restart this operation.



(n) If another injector compensation code already exists in the tester:

(1) Check that the compensation code displayed on the tester screen is correct.

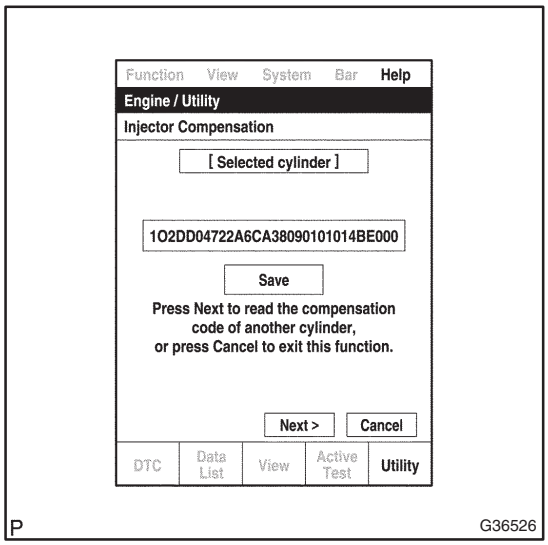
HINT:

The existing compensation code is overwritten with the new compensation code and deleted from the tester.

(2) Press Replace.

HINT:

The saving process may fail due to a problem with the wire harness or a bad connection with the DLC3. Check the wire harness and the DLC3 connection. If no problem is found with either, the ECM may be malfunctioning. Check the ECM and restart this operation.



(o) If you want to read and save other injector compensation codes for other cylinders, press Next to continue. To finish this operation, press Cancel.