

INTRODUCTION: REPAIR INSTRUCTION: INITIALIZATION

INITIALIZATION - Continued

20. ERASURE OF KEY CODE (PROCEDURE "D")

HINT: All key codes are erased except for the master key which is used for erasing the key codes. In order to use a key whose code has been erased, a new key code must be registered.

(a) Erasure all key codes except master key

HINT:

- At least one key code must be registered in the transponder key ECU in order for this mode to operate normally.
- Make sure the inserted key is a registered master key.

Procedure	Security Indicator Light Condition	Time (Completion of operation)
1. Start of erasure.	Security indicator light is blinking.	-
2. Insert previously registered master key into ignition key cylinder and turn ignition switch ON.	Security indicator light turned off.	
3. Select following items on the tester: (1) Body Electrical (2) Immobiliser (3) ID Utility (4) Immobiliser Code Erasure	Security indicator light turned on for 1 sec. then turned off.	Within 120 sec.
4. Remove the master key. Key codes are deleted except inserted key.	Security indicator light turned on.	Within 10 sec. of the instruction on the tester.
5. End of erasure.		

(b) Erasure all of key codes

HINT:

- This mode performs normally, when at least one key codes must be registered in the transponder key ECU.
- Insertion key is either registered key or unregistered key.

Procedure	Security Indicator Light Condition	Time (Completion of operation)
1. Using TIS, confirm that user and vehicle match.	Security indicator light is blinking.	-
2. Start of erasure.	Security indicator light is blinking.	-
3. Insert previously registered master key or unregistered key into ignition key cylinder and turn ignition switch ON.	Security indicator light turned off.	Within 120 sec.
4. Select following items on the tester: (1) Body Electrical (2) Immobiliser (3) ID Utility (4) Immobiliser Code Erasure	Security indicator light turned on for 1 sec. then turned off.	Within 15 min.
5. Completion of erasure of all key codes is displayed.	Security indicator light turned on.	-
6. End of erasure.		

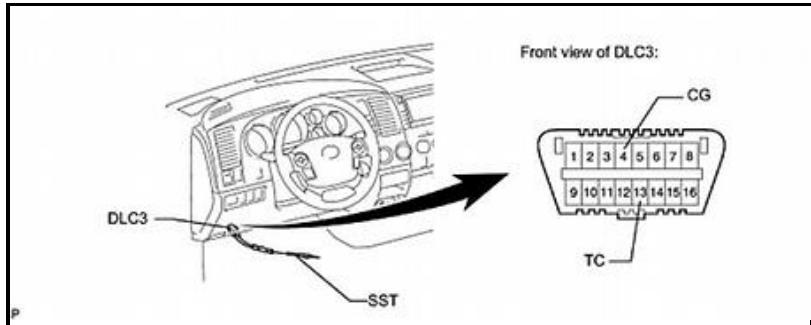
HINT:

- A brief outline of the procedures for key code registration is shown above. For more detailed information, refer to the screen of the Techstream.
- When the engine immobiliser system is operating normally and the key is pulled out, the security indicator light blinks continuously.

21. ECU - ECM COMMUNICATION ID REGISTRATION (PROCEDURE "C")**NOTICE:**

- The ECU - ECM communication ID must be registered to the transponder key ECU and ECM when one of the following occurs in order to match their IDs: 1) the transponder key ECU is replaced, 2) the ECM is replaced, or 3) the transponder key ECU and ECM are replaced.
- The SFI system cannot be started unless the ECU - ECM communication IDs of the transponder key ECU and ECM match.

(a) After replacing the transponder key ECU



- (1) Register the key code(s) by following the new key code registration procedure (procedure "B").
- (2) Using SST, connect terminals 13 (TC) and 4 (CG) of the DLC3 before inserting the key into the key cylinder.

SST: 09843-18040

Procedure	Security Indicator Light Condition
1. Insert previously registered key into ignition key cylinder and turn ignition switch ON. Do not start the engine.	
2. Leave vehicle as is for 30 min.	
3. Turn the ignition switch OFF and disconnect terminals TC and CG.	Security indicator light turned off.
4. Start engine.	
5. Check that engine starts and stays on for more than 3 sec. Registration is complete.	

(b) After replacing the ECM

- (1) Register the ECU - ECM communication ID.

Procedure	Security Indicator Light Condition
1. Insert previously registered key into ignition key cylinder.	
2. Start engine.	Security indicator light turned off.
3. Check that engine starts and stays on for more than 3 sec. Registration is complete.	

(c) After replacing the transponder key ECU and ECM

- (1) Register the key code(s) by following the new key code registration procedure (procedure "B").
- (2) Register the ECU - ECM communication ID.

Procedure	Security Indicator Light Condition
1. Insert previously registered key into ignition key cylinder.	
2. Start engine.	Security indicator light turned off.
3. Check that engine starts and stays on for more than 3 sec. Registration is complete.	

22. DESCRIPTION OF CODE REGISTRATION

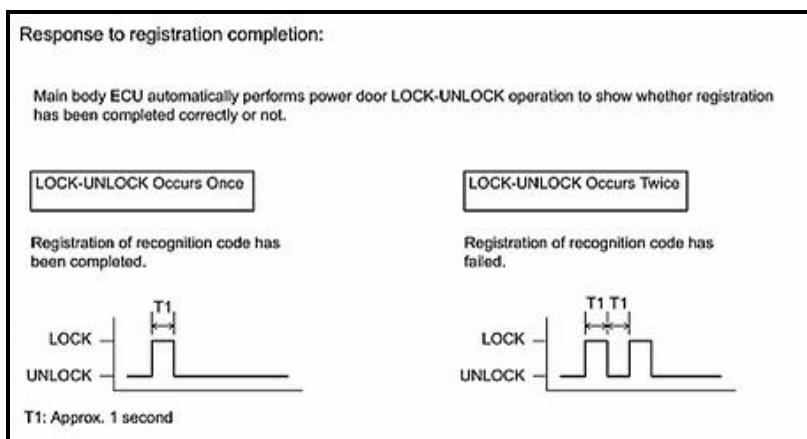
HINT:

- Recognition code registration is necessary when replacing the door control transmitter or the door control receiver.
- Add mode is used to register new recognition codes while still retaining codes already registered. This mode is used when a new transmitter is added. If the number of registered codes exceeds 4, the previously registered codes will be erased in order, starting from the first registered code.
- Rewrite mode is used to erase all the previously registered recognition codes in order to register new recognition codes. This mode is used when the transmitter or the door control receiver is replaced with a new one.
- Confirmation mode is used to confirm how many recognition codes have already been registered before registering any additional recognition codes.
- Prohibition mode is used to erase all the registered codes and disables the wireless door lock function. This mode is used when the transmitter is lost.
- All of the following registration procedures must be performed in order and in a continuous sequence.

23. REGISTER RECOGNITION CODE

HINT: For detailed procedures, refer to the prompts on the tester screen. The number of currently registered codes can be checked out on the first screen of the Wireless Registration.

- (a) Turn the ignition switch ON.
- (b) Enter the following menus:
 - (1) Select: Body / Main Body / Wireless Registration.
 - (c) Press both LOCK and UNLOCK switches between 1 to 1.5 seconds.
 - (d) Press either switch for more than 1 second within 3 seconds.
 - (e) Check the response to the registration completion.

**HINT:**

- If the LOCK-UNLOCK operation occurs twice, the registration of the recognition code has failed. Perform the registration procedures again from the beginning.
- If registering another transmitter, repeat the procedures after the tester operation. All 4 recognition codes can be registered consecutively.

- (f) Perform either of the following to complete the registration of the recognition codes:
 - Use the Techstream to send a completion command.
 - Disconnect the Techstream.

24. REGISTER RECOGNITION CODE (USING SWITCH OPERATION)

- (a) The following conditions must be met.

- No key in the ignition key cylinder.
- The driver side door is open (the other doors are closed).
- The driver side door is unlocked.

- (b) Insert and remove the key into / from the ignition key cylinder twice (Insert-> Remove-> Insert-> Remove) within 5 seconds.

HINT: The procedure should end with the key removed.

(c) Perform the following operations within 40 seconds.

(1) Close and open the driver side door twice (Close-> Open-> Close-> Open).

HINT: The procedure should end with the door open.

(2) Insert and remove the key into / from the ignition key cylinder (Insert-> Remove).

HINT: The procedure should end with the key removed.

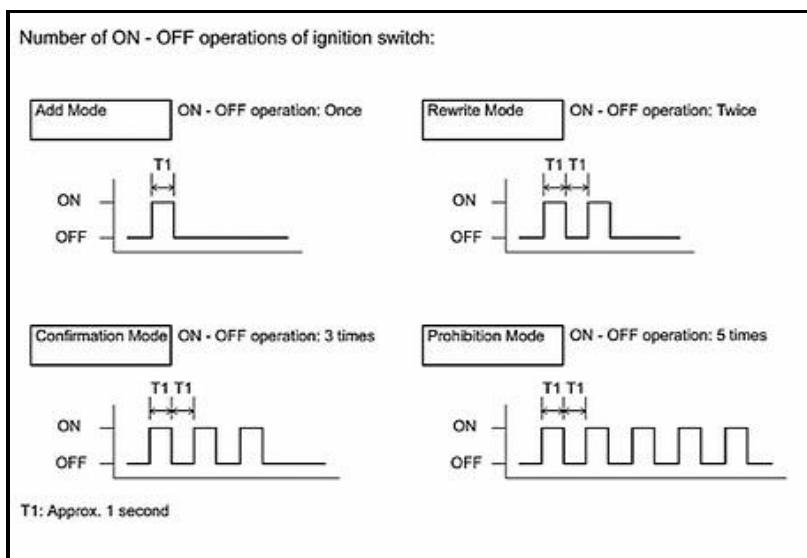
(3) Close and open the driver side door twice (Close-> Open-> Close-> Open).

HINT: The procedure should end with the door open.

(4) Insert the key into the ignition key cylinder and close all doors.

(d) Perform the following operations within 40 seconds.

(1) Turn the ignition switch from ON to OFF at approximately 1 second intervals. Operate the ignition switch according to the number of times shown below.



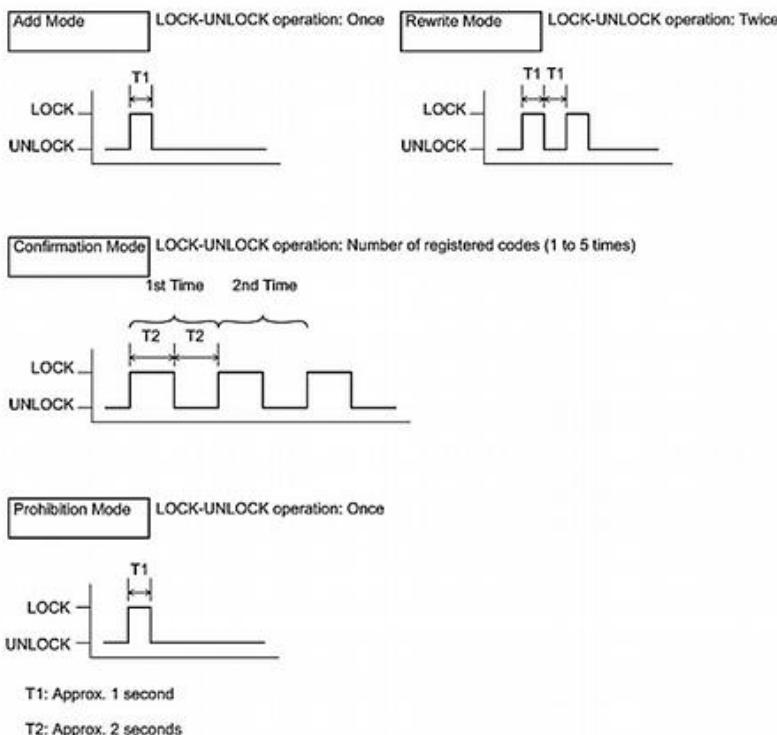
HINT: If the number of ignition switch ON - OFF operations is 0, 4, 6 or more, there will be no response (the power door lock and unlock operation) to show which mode has been selected.

(2) Remove the key from the ignition key cylinder.

(e) Check the response of the selected mode within 5 seconds.

Response to selected mode (power door lock operation):

Main body ECU automatically performs power door LOCK-UNLOCK operations to indicate which mode has been selected.



NOTE: After the system has been set to the prohibition mode, enter the confirmation mode and check that the number of registered keys is 0.

HINT:

- In the confirmation mode, LOCK-UNLOCK operation will occur once for each recognition code that has been registered. For example, if 2 recognition codes have been registered, LOCK-UNLOCK operation will occur twice.
- In the confirmation mode, if no recognition codes have been registered, LOCK-UNLOCK operation will occur 5 times.
- If confirmation mode or prohibition mode is selected, the operation ends after the response to the selected mode completes.
- If add mode or rewrite mode is selected, perform the following procedures.

(f) Press a single switch (LOCK or UNLOCK) within 5 seconds.

(g) If add mode or rewrite mode is selected, perform the following procedures.

(1) Press a single switch (LOCK or UNLOCK) within 5 seconds.

(2) After completing the above step, check the response to the registration completion within 3 seconds.

Response to registration completion:

Main body ECU automatically performs power door LOCK-UNLOCK operation to show whether registration has been completed correctly or not.

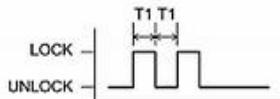
LOCK-UNLOCK Occurs Once

Registration of recognition code has been completed.



LOCK-UNLOCK Occurs Twice

Registration of recognition code has failed.



T1: Approx. 1 second

HINT:

- If the LOCK-UNLOCK operation occurs twice, the registration of the recognition code has failed. Perform registration procedures again from the beginning.
- If registering another transmitter, repeat the procedures after the response to the selected mode confirmation. All 4 recognition codes can be registered consecutively.

25. SELECT COMPASS DISPLAY MODE

(a)The compass switch allows you to select the Display or Non-display mode of the compass.

26. SET ZONE

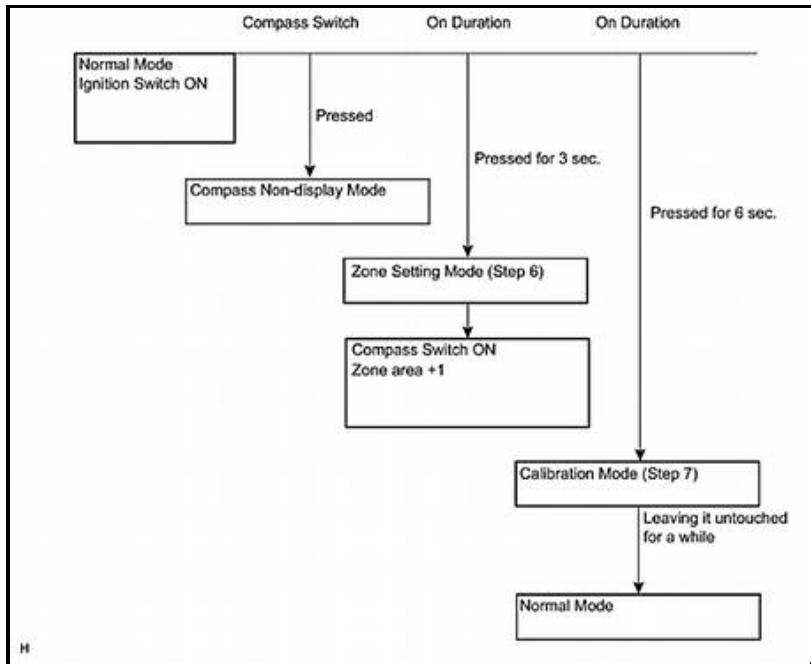
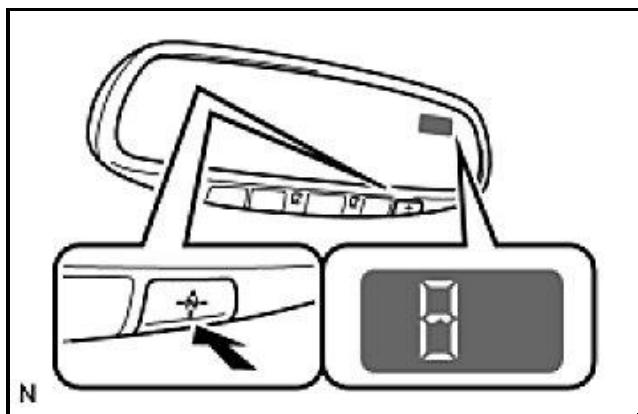
(a)Deviation between the "magnetic north" and "actual north" differs depending on the location. Therefore, adjustment of the magnetism is required. As the magnetic condition differs depending on the area where the vehicle is used, it is necessary for each user to set the zone (refer to Compass Zone Map). The zone setting can be changed using the compass switch of the inner mirror.

27. PERFORM CALIBRATION

(a)As each vehicle has its own magnetic field, calibration should be performed for each individual vehicle. This compass function is used when storing the record of the vehicle's magnetic field.

28. WHEN COMPASS IS MAGNETIZED

(a)A compass could be magnetized during shipping by vessels or freight cars. Therefore, make sure to perform calibration and ensure that calibration is performed properly before delivery. If this cannot be done (cannot be completed in spite of driving around several times), it may be caused by magnetization. Demagnetize the vehicle using a demagnetizer and perform calibration again.

29. SET COMPASS**30. ZONE SETTING MODE**

(a)Pressing the compass switch for 3 seconds in the normal mode will activate the zone setting mode. A number (1 - 15) is displayed

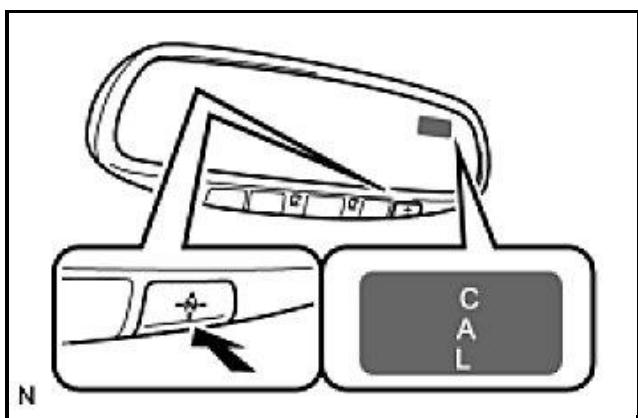
on the compass display.

HINT: In the initial state, "8" is displayed.

(b)The displayed number increases +1 every time the compass switch is pressed. Referring to the map, check the number for the area where the vehicle will be used and set the zone number.

(c)Leave it untouched for several seconds after setting and check that the compass display shows an azimuthal direction (N, NE, E, SE, S, SW, W or NW) or "CAL".

31. CALIBRATION SETTING MODE



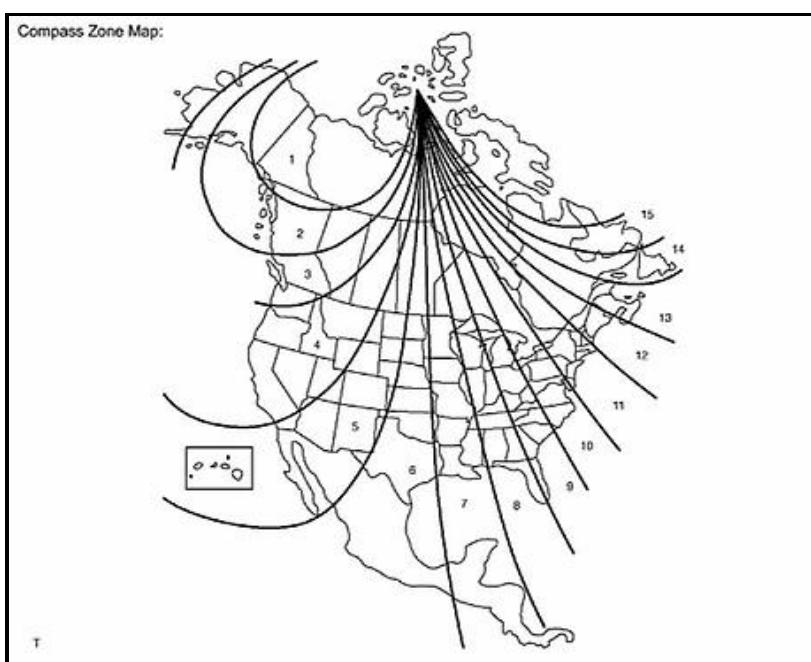
(a)Pressing the compass switch for 6 seconds in the normal mode will activate the calibration setting mode. "CAL" is displayed on the compass display.

(b)Drive the vehicle at a slow speed of 8 km/h (5 mph) or less in a circular direction.

(c)Driving in a circle 1 to 3 times will display the azimuthal direction on the display, completing the calibration.

HINT: After the calibration is completed, it is not necessary to perform the above procedures unless the magnetic field strength is drastically changed. If this happens, the azimuthal display will be changed to "CAL".

(d)The zone setting numbers are as follows:



32. REGISTER TRANSMITTER CODE

HINT:

- The vehicle's garage door opener records transmitter codes for systems such as garage doors, gates, entry gates, door locks, home lighting systems, security systems or other transmitter code based systems.
- The garage door opener is built into the inner rear view mirror. If replacing the inner rear view mirror, transmitter codes for any systems previously registered in the garage door opener must be reregistered.

(a)Reregister systems in the garage door opener registration mode.

CAUTION: Do not perform transmitter code registration for a system if people or objects are near the system. When registering transmitter codes for a system, injury or damage can occur because the system may open, close, unlock or otherwise operate.

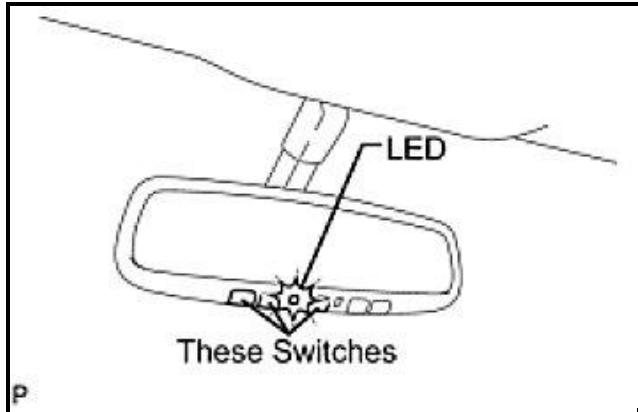
NOTICE:

- Before transmitter code registration, confirm that all the electrical systems (headlight, blower motor, rear defogger, etc.) are turned off and no key is in the vehicle.
- The garage door opener cannot be used with systems that: 1) were manufactured before April 1, 1982; or 2) do not meet Federal Standards (for example, garage doors without a jam protection function).

HINT:

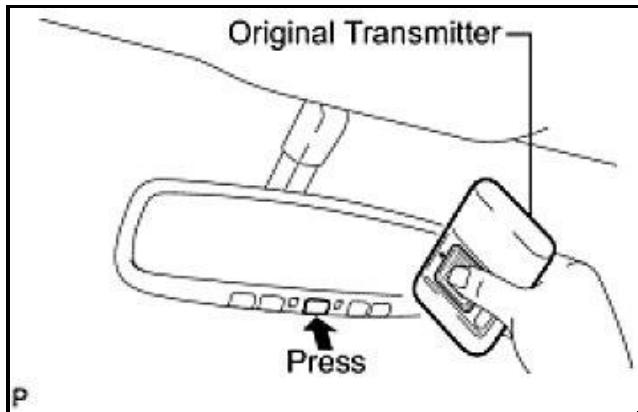
- 3 transmitter codes can be registered with the garage door opener, one transmitter code for each of the 3 garage door opener switches.
- Disconnecting the battery will not erase the transmitter codes registered with the garage door opener.
- An attempt to overwrite a previously registered transmitter code with a new system's transmitter code may fail. In this situation, the previously registered transmitter code will not be erased.

(1)Select a garage door opener switch for transmitter code registration.



(2)Press and hold the selected switch for 20 seconds. The garage door opener will enter registration mode.

HINT: Before entering registration mode, the LED illuminates. After entering registration mode, the LED flashes at a cycle of 1 Hz. For a "rolling code" type system, after entering registration mode, the LED flashes at a cycle of 8.8 Hz for 1.6 seconds, and then the LED flashes at a cycle of 1 Hz.

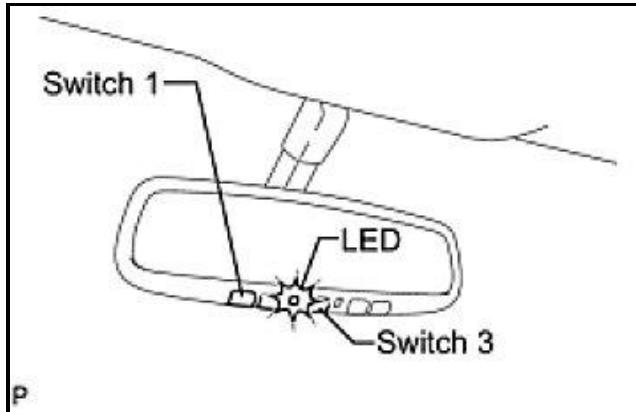
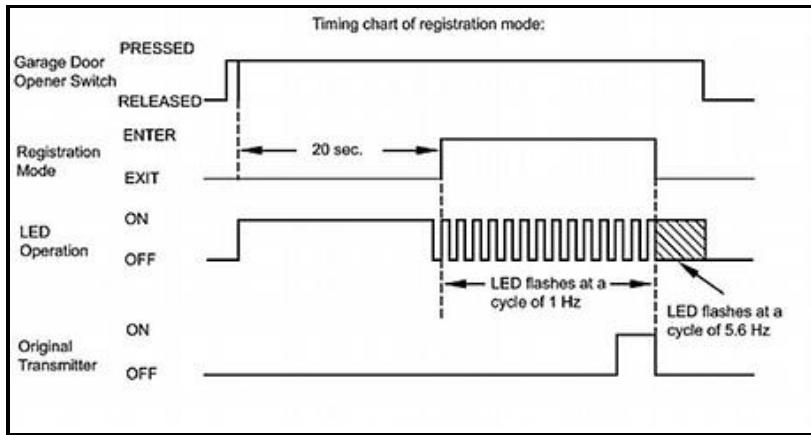


(3) After the garage door opener has entered registration mode, bring the original transmitter of the system to be registered within 1 to 3 inches of the garage door opener and press and hold one of the garage door opener switches. Then press the original transmitter switch.

(4) If the transmitter code registration was successful, the LED of the garage door opener flashes at a cycle of 5.6 Hz. If no malfunction occurs, release both the garage door opener switch and the original transmitter switch.

HINT:

- If transmitter code registration fails: 1) the original transmitter's battery may be low or need to be replaced, or 2) the system you are trying to register may not be compatible with the garage door opener.
- Some transmitter's signals stop after 1 to 2 seconds. For these types of transmitters: 1) press and hold one of the garage door opener switches, and 2) press and release (cycle) the transmitter switch every 2 seconds. Check if the transmitter code was successfully registered.
- After entering the garage door opener registration mode, transmitter code registration must be completed within 90 seconds. If 90 seconds elapse, the garage door opener will enter low power mode (refer to "low power mode" below).



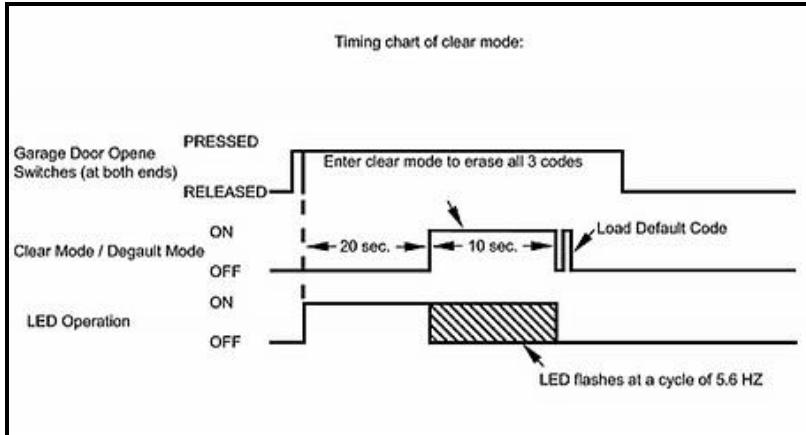
(b) Erase transmitter codes in the garage door opener clear mode.

HINT: All 3 registered transmitter codes will be erased. No option exists for only erasing one transmitter code.

(1) Press and hold the left and right switches of the garage door opener for 20 seconds. The LED will begin to flash at a cycle of 5.6 Hz. Releasing the switches will end clear mode.

HINT:

- If the switches are released within 10 seconds after the transmitter codes have been erased, the garage door opener will enter registration mode.
- If the switches are held for 10 seconds or more after the transmitter codes have been erased, default codes will be set to the switches of the garage door opener. Using these default codes, operation of the garage door opener can be checked using a tester.



(c) Low power mode:

(1) If a garage door opener switch is held for 100 seconds or more, the garage door opener will enter low power mode to economize on power consumption. When the garage door opener has entered low power mode, the LED turns off.

33. INITIALIZE SLIDING ROOF DRIVE GEAR SUB-ASSEMBLY

NOTE: When replacing the sliding roof drive gear, the new sliding roof drive gear requires initialization. If a reset is not executed, the following functions do not operate: AUTO operation and jam protection function.

- Turn the ignition switch ON.
- If the sliding roof is open, close it fully.
- By pushing the SLIDE switch to close or the TILT switch to up on the roof console box, make the sliding roof operate as follows: TILT UP approximately 1 second TILT-> DOWN-> SLIDE-> OPEN-> SLIDE-> CLOSE.
- Check that the sliding roof stops at the fully closed position.
- Finish the initialization.
- Check that the AUTO operation works normally.

NOTE: If the following conditions occur while operating, initialization will fail.

- Ignition switch is turned OFF.

- Pushed sliding roof switch is released while sliding roof is operating.

- Vehicle speed is 5 km/h (3 mph) or more.

- Communication is cut off.

HINT:

- If the sliding roof cannot fully close or its position has become misaligned, perform the initialization again.

- If the sliding roof TILT switch to up or SLIDE switch to close is pressed and held until the roof glass has either stopped moving or started moving in the opposite direction, and then the switch is held for another 10 seconds or more, perform the initialization again.

- If the AUTO operation function and jam protection function do not operate after the drive gear has been initialized, replace the sliding roof drive gear (sliding roof ECU) or, adjust or replace the sliding roof glass.