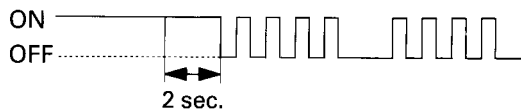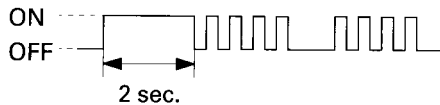**When the ignition switch is faulty:**

1. Obtain a new ignition switch and two new transponder keys.

2. Remove the ignition switch (page 19-19).

3. Apply 12 V battery voltage to the ignition pulse generator lines of the engine control module (ECM) using the special tool (page 20-5).

4. Set the original (registered) key near the immobilizer receiver so that the transponder in the key can communicate with the receiver.

5. Connect a new ignition switch to the wire harness and turn it ON with a new transponder key. (keep the ignition switch away from the receiver.) The immobilizer indicator comes on and it remains on.
   • The code of the original key is recognized by the ECM.
   • If there is any problem in the immobilizer system, the system will enter the diagnostic mode and the indicator will remain on for approx. ten seconds, then it will indicate the diagnostic code (page 20-5).

6. Disconnect the red clip of the inspection adaptor from the battery positive (+) terminal for two seconds or more, then connect it again. The indicator remains on for approx. two seconds then it blinks four times repeatedly.

```
ON  ─────────┐   ┌┐┌┐┌┐┌┐  ┌┐┌┐┌┐┌┐
OFF ─────────┘   └┘└┘└┘└┘__└┘└┘└┘└┘__
             ◄─►
            2 sec.
```

   • The immobilizer system enters the registration mode. Registrations of all key except the original key set near the receiver are cancelled.

7. Turn the ignition switch OFF and remove the key.

8. Install the ignition switch onto the top bridge (page 19-19).

9. Turn the ignition switch ON with a first new key. The indicator comes on for two seconds then it blinks four times repeatedly.

```
ON  ───┐   ┌┐┌┐┌┐┌┐  ┌┐┌┐┌┐
OFF ───┘   └┘└┘└┘└┘__└┘└┘└┘__
       ◄───►
       2 sec.
```

   • The first key is registered in the ECM.
   • If there is any problem in the registration, the system will enter the diagnostic mode and the indicator will remain on for approx. ten seconds, then it will indicate the diagnostic code (page 20-6).

10. Turn the ignition switch OFF and disconnect the red clip of the inspection adaptor from the battery positive (+) terminal.

11. Turn the ignition switch ON (with the first key registered in step 9). The immobilizer indicator comes on for two seconds then it goes off.
    • The immobilizer system returns to the normal mode.

12. Turn the ignition switch OFF and connect the red clip of the inspection adaptor to the battery positive (+) terminal.

13. Turn the ignition switch ON (with the first key registered in step 9). The immobilizer indicator comes on and it remains on.
    • The code of the first key is recognized by the ECM.
    • If there is any problem in the immobilizer sysytem, the system will enter the diagnostic mode and the indicator will remain on for approx. ten seconds, then it will indicate the diagnostic code (page 20-5).

14. Disconnect the red clip of the inspection adaptor from the battery positive (+) terminal for two seconds or more, then connect it again. The indicator remains on for approx. two seconds then it blinks four times repeatedly.
    • The immobilizer system enters the registration mode. Registration of the original key used in step 4 is cancelled.