

## Audi, Seat, Skoda and Volkswagen

### Ignition (transponder) Key Re-programming

This procedure is required if keys are lost, a replacement Engine Management ECM is fitted, new or additional ignition (transponder) keys needs to be matched to the vehicle. When transponder (ignition) keys are matched to the vehicle the key data is stored in the memory of the immobiliser ECU and used to recognise and validate the ignition keys.

The matching of ignition (transponder) keys to a particular vehicle requires the use of the following functions: **Login ECM** and **Adaptation**. The **Login ECM** function enables the technician to enter the 5 or 7 digit login code. A valid login code must be entered in order to program new ignition (transponder) keys for all VAG cars. The **Adaptation** function enables the technician to adapt new and additional ignition (transponder) keys.

The procedure for matching the ignition transponder must be carried out for all of the ignition keys, including the existing ones. The number of keys already matched will be displayed when the key matching channel is selected via **Adaptation**. If the vehicle is matched with only one key the vehicle can be start immediately with this key. If more than one key has been matched to the vehicle only the last key can be used to start the vehicle immediately. The key matching process will terminate if an already matched ignition key is used to switch the ignition on again and the ignition remained switch on for longer than a 1 second. It will also terminate, if the permissible key matching period of 30 seconds is exceeded. In both cases the ECM will store Diagnostic trouble codes (DTC).

### Re-programming transponder keys

#### Preliminary Requirements

- Ensure that all keys to be matched to the vehicle are available.
- ECM supports Login ECM and the correct Login Code is available.
- Scan tool diagnostic tester.

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## Adding transponder keys to vehicle with separate Immobiliser ECM

1. Connect the scan tool to the vehicle's data link connector.
2. Switch ignition on with the first key to be matched to the immobiliser ECM.
3. From 'System Menu' select the **Immobiliser** ECM.
4. From 'Function Menu' select 'Login ECM'.
5. Follow on-screen instructions and enter login code, including any leading zeroes.
6. On acceptance of the code 'Code accepted will be displayed, otherwise an appropriate error message will be displayed.
7. From the 'Function Menu' select 'Adaptation'.
8. Enter channel number 1, the value displayed for the entered channel is the number of keys currently matched.
9. Follow on-screen instructions to enter the total number of keys to be matched.
10. Switch ignition off and remove key.
11. Insert in the ignition the next key to be matched and switch the ignition on, the anti-theft immobiliser sensor light with switch on for approximately 2 seconds and then go out. This indicates that the key in the ignition is now matched to the vehicle immobiliser.
12. Before the 30 seconds matching time ends and the anti-theft immobiliser sensor light goes out, repeat steps 10 and 11 for each remaining key until all keys have been matched.
13. When the last ignition key in the sequence is matched with VDO instrument cluster the anti-theft immobiliser sensor light goes out after matching the last ignition key. With Motometer instrument cluster the anti-theft immobiliser sensor light flashes briefly after the last key is matched.
14. Repeat step 3, 4, 5, 6 and 7.
15. Enter channel number 0.
16. Follow on-screen instructions to erase learned values. This will enable the re-learning procedure of the immobiliser ECM.

*Note: Possible vehicles with separate Immobiliser are: Audi models up to 1997, mark 3 Golfs, Passat B4, Transporter, Lupo and Sharan vans.*

## Adding transponder keys to vehicle with immobiliser in the instrument cluster

1. Connect the scan tool to the vehicle's data link connector.
2. Switch ignition on with the key you want to match.
3. From 'System Menu' select the **Instrument** ECM.
4. From 'Function Menu' select 'Login ECM'.
5. Follow on-screen instructions and enter login code, including any leading zeroes.
6. On acceptance of the code 'Code accepted will be displayed, otherwise appropriate error message will be displayed.
7. From the 'Function Menu' select 'Adaptation'.
8. Enter channel number 21, the value displayed for the entered channel is the number of keys currently matched.
9. Follow on-screen instructions to enter the total number of keys to be matched.
10. Switch ignition off and remove key.
11. Insert in the ignition the next key to be matched and switch the ignition on, the anti-theft immobiliser sensor light with switch on for approximately 2 seconds and then go out. This indicates that the key in the ignition is now matched to the vehicle immobiliser.
12. Before the 30 seconds matching time ends and the anti-theft immobiliser sensor light goes out, repeat steps 10 and 11 for each remaining key until all keys have been matched.
13. When the last ignition key in the sequence is matched with VDO instrument cluster the anti-theft immobiliser sensor light goes out after matching the last ignition key. With Motometer instrument cluster the anti-theft immobiliser sensor light flashes briefly after the last key is matched.
14. Repeat step 3, 4, 5, 6 and 7.
15. Enter channel number 0.
16. Follow on-screen instructions to erase learned values. This will enable the re-learning procedure of the immobiliser ECM.

*Note: Possible vehicles with immobiliser in the instrument cluster: Audi models from 1997, mark 4, 5 Golfs, Passat B5 and B6.*