Technical Tip

| Торіс | 96-14-05TT - Immobilizer Key, Key Remote Adaptation Test Plan |
|--|---|
| Market area United States 444 Volkswagen of America, Inc. (6444) | |
| Brand Volkswagen | |
| Date | August 17, 2018 |

Condition

ATTENTION:

THIS IS A TECH TIP, NOT A TECHNICAL BULLETIN. TECH TIPS ARE NOT ASSOCIATED WITH WARRANTY CLAIMING.

Immobilizer Key, Key Remote Adaptation Test Plan

| Model(s) | Year | Eng. Code | Trans. Code | VIN Range From | VIN Range To |
|---|-----------|-----------|-------------|----------------|--------------|
| Golf, GTI, Golf R, eGolf, Golf SportWagen | 2015-2019 | All | All | All | AII |
| Atlas, Tiguan LWB | 2018-2019 | All | All | All | All |
| Jetta | 2019 | All | All | All | All |

Technical Background

To adapt keys, any immobilizer component including the Control Module for Emergency Call Module and

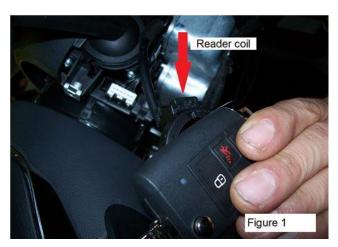
Communication Unit - J949- or a new identity, makes it necessary to complete the "Adapt Immobilizer" test plan.

Service

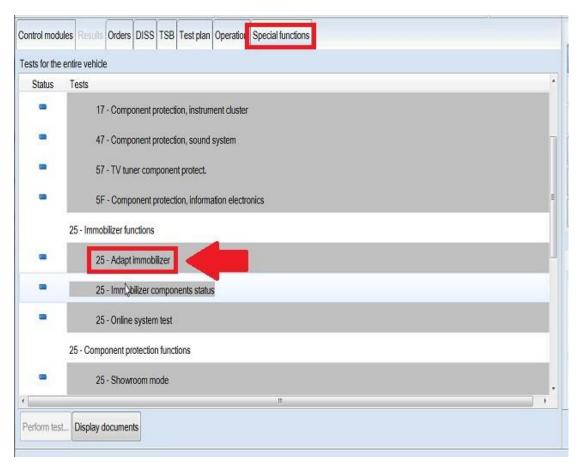
Kessy Vehicles: Verify that the reader coil is removed from the steering column and the key is touching the reader coil during key adaptation (Figure 1). Bladed key vehicle, it is not necessary to remove the reader coil. The test plan can be found under the ODIS Service Special Functions Tab (Figure 2) or by navigating to "Immobilizer functions" under "Elect. Immobilizer 5A" after clicking the "Select self test" button in the Test Plan tab (Figure 3). This procedure adapts both the remote and immobilizer functions of the key.

Note:

Vehicle may not start and or have warning lights on cluster after immobilizer / key adaptation is completed. See figure 9 information in this tech tip after immobilizer / key adaptation for further instructions.









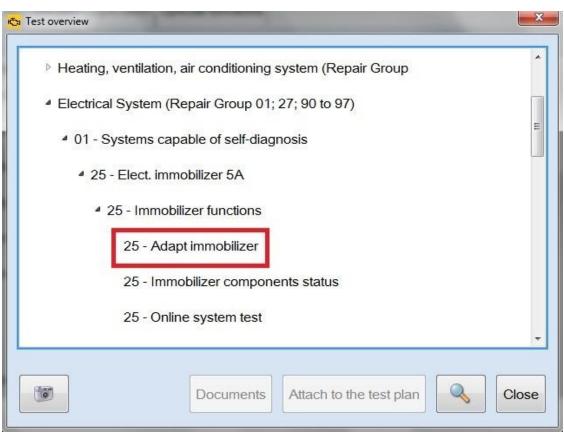


Figure 3

When prompted by the test plan, make the selection to Repair immobilizer (Figure 4).

| Adapt immobilizer 5 | | -1- |
|---|---|-----|
| Prerequisite Supply Supply DEVICE Return Supply XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | This test program supports the adaptation of the immobilizer. For this an ignition key must be available. Please select: 1. Repair immobilizer 2. Rewrite all immobilizer data Note: If a new identity is implemented, a new key must be inserted into the ignition hck. For a new identity the Repair immobilizer must be selected. NEW IDENTITY - NOTE | -2- |

Figure 4

Once the purchaser's information is entered and valid login credentials are provided, the adaptation status of all immobilizer components is displayed (Figure 5). Select "Complete/Continue".

| Control modules Results Orders DISS | TSB Test plan Operation Special functions | | | |
|-------------------------------------|---|------|------------|-------------------|
| Adapt immobilizer 5 | | | | Complete/Continue |
| Evaluation login/release | | | | |
| LOGICAL_LINK_1n ~ LOGICAL_L | No activation is not necessary. | ß | * | |
| Supply | Control module: Schalttafeleinsatz Status: No download necessary Control module: Engine control module 1 | | | |
| Set repair shop code | Status: No download necessary Control module: Gearbox control unit | | | |
| Return | Status: No download necessary Control module: Emergency call module and comm unit Status: No download necessary | | | |
| Enable immobilizer | Control module: | | | |
| CU assignment | Status: | | | |
| IO/NIO | | | | |
| Return | | | | |
| Evaluation login/release | | | | |
| • • | | | | |
| | K < > > | Help | Canceltest | |

Figure 5

Select "Yes" when prompted to perform key adaptation (Figure 6).

| Control modules Results Orders | DISS TSB T | est plan Operation | Special functions | | | | |
|--------------------------------|------------|--------------------|---------------------------|---------------|---------|-----------------|-----|
| Adapt immobilizer 5 | | | | | | | Yes |
| Evaluate key state | 1000 | | | | | | No |
| Set repair shop code | | | anti-theft immobilizer co | ntrol module. | | | |
| Return | Pellolini | a key adaptation? | | | | | |
| Enable immobilizer | i | | | | | | |
| CU assignment | i l | | | | | | |
| 10/NIO | | | | | | | |
| Return | | | | | | | |
| Evaluation login/release | | | | | | | |
| Supply | | | | | | | |
| Evaluate key state | | | | | | | |
| | K | < > > | | H | lelp Ca | - Incel test | |

Figure 6

| Control modules Results Orders DIS | S TSB Test plan Operation Special functions | |
|--|--|-------------|
| Adapt immobilizer 5 Specifying number of keys | | + |
| Supply Read out status immobilizer | Enter the number of keys that should be adapted via the + and - buttons. Number of keys: 0 | OK Abort |
| 0K Return | | |
| XXXXXXCOMMENTXXXXXX 10 Byte <> 8 Byte | | |
| Transfer | | |
| Specifying number of keys | | |
| | Help Cancel test | |

Use the + and – buttons to select the number of keys to be adapted, then select "OK" (Figure 7).

Figure 7

Continue to follow test plan instructions to complete key adaptation (Figure 8).

| Adapt immobilizer 5 | | | Complete/Continue |
|--------------------------------|-----------------------------------|------------------|-------------------|
| Adapt key | | | |
| CU assignment | - Switch ignition on with key 2 . | | C C |
| Enable immobilizer | | | |
| CU assignment | | | |
| IO/NIO | | | |
| Return | | | |
| Evaluation login/release | | | |
| Evaluate immobilizer condition | | | |
| SWITCH with/without Kessy/ESCL | | | |
| Adapt key | | | |
| · · · | | Help Cancel test | |

Vehicle doesn't start and or warning lights ON after immobilizer / key adaptation. Check for faults related to modules that may no longer be coded (Figure 9).

| DTC memory | | | | | | |
|--------------------------------------|--------------------------------|--------------------|--------------------------|-------------------|----------------|------|
| Engine Control M | odule 1 (01 - Engine electroni | cs 1.8-2.0 FSI SU | JLEV) (5G0906259A | 0005 2.01 R4 TFSI | 06K907425B | 413) |
| 15364 P1612 | 00 Engine control module (E | CM) Incorrect cod | ding (01100101 active | /static) | | |
| ⇒ 🕕 17178 U | 112300 Databus error value | received (001011 | 111 active/static) | | | |
| > 19875 U0121 | 00 Lost Communication With | Anti-Lock Brake | System (ABS) Control | Module (10101111 | active/static) | |
| * Brakes 1 (03 - Br | ke electronics) (3Q0907379 | 0385 ESC | 3Q0907379C H3 | (2) | | |
| ▶ 8286 U11230 | 0 Databus error value receiv | ed (10001001 a | ctive/static) | | | |
| ▶ 8314 P16470 | 0 Checking coding/versions | of control modules | s in drivetrain (0000100 | 1 active/static) | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Networking diagram | Control Module List DTC me | mory list Equipme | ent list | | | |
| | | | | | | |

Figure 9

It will be necessary to recode all modules that are no longer coded. Code modules online under the special functions tab, "Code online control module". Modules may include, but not limited to ECM, ABS, TCM. The FES test plan may need to be ran on the Gateway AW 19, select #2 "Re-create function" (Figure 10).

| trol module | es Results Orders DISS TSB Test plan Operation Special functions | Operating modes |
|--------------|--|--------------------|
| ts for the e | intire vehicle | 🛛 Diagnosis |
| Status | Tests | ()) OBD |
| | SF - Information electronics 1 -J794 | S Florth |
| • | 5F - Installation status test/teset DTC memory | A Measurement |
| | Software version management | info. |
| - | Adapt software (offine) | Admin |
| - | Adapting software | all sources |
| | Code anline control module | Log |
| - | Ctil. module software configuration | Data |
| | Function clearing system (FES) | Current view |
| 1 | Function enable system (FES) status | D Print |
| | | Diagnostic session |
| | | Stop |

Figure 10

Additional Information

| ision History | | | | | |
|-----------------|---------------|---|--|--|--|
| Revision Number | Released Date | Reason For Update | | | |
| 2038198/12 | 8/17/18 | To include model year 2019 applicability. | | | |
| 2038198/11 | 1/19/18 | To include model years 2017 and 2018 applicability. | | | |
| 2038198/10 | 7/10/17 | Update to latest standard. | | | |
| 2038198/9 | 7/29/16 | Removal of providing GFF feedback for lost control module coding. | | | |
| 2038198/1 | 8/22/14 | Original publication. | | | |

© 2018 Volkswagen Group of America, Inc. All rights reserved. Information contained in this document is based on the latest information available at the time of printing and is subject to the copyright and other intellectual property rights of Volkswagen Group of America, Inc., its affiliated companies and its licensors. All rights are reserved to make changes at any time without notice. No part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, nor may these materials be modified or reposted to other sites, without the prior expressed written permission of the publisher.