

Condition

ATTENTION:

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

Applicable Vehicles						
Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To	
Golf, GTI, Golf R, eGolf, Golf SportWagen	2015- <mark>2021</mark>	All	All	All	All	
Atlas, <mark>Atlas Cross</mark> <mark>Sport</mark> , Tiguan LWB	2018- <mark>2021</mark>	All	All	All	All	
Jetta	2019- <mark>2021</mark>	All	All	All	All	

Revision Table					
Instance Number	Published Date	Version Number	Reason For Update		
2038198/15	3/12/21	96-14-05TT	To include model and model year applicability.		
2038198/14	1/24/20	96-14-05TT	To include model year 2020 applicability.		
2038198/1	8/22/14	96-14-05TT	Original publication.		

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.

KESSY Vehicles: Verify that the reader coil is removed from the steering column and the key is touching the reader coil during key adaptation (Figures 1a – 1c). 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.

INote:

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.

Prior to starting the test plan to adapt the immobilizer, the key positioning on the reader coil itself is critical. Monitor MVB information in the immobilizer with the key touching the reader coil to verify a key ID is being seen.

Key ID MVB information may either be found under Address word 25 Immobilizer or Address word 17 Instrument cluster depending on vehicles module protocol.



96-14-05TT - Immobilizer Key / Key Remote Adaptation Test Plan

Service

If the key ID is not being seen in the MVB reading, then rotate the key around the reader coil until the key ID is seen in MVB information.

Measured values - Display measured values 25 - Immobilizer (UDS / ISOTP / 5K0953234 / 0604 / H04 / EV_Immo_UI Adaptation Update ٠ Name Value □ [VO]_WFS-Challenge Now 64 7D CB CC ✓ cyclic Example - Key ID for key [VO]_Transponder-ID des aktuellen Schlues 0 s at reader coil D8 83 5E 73 < □ [VO]_Transponder-ID des 1. Schluessels D8 8B 82 2A □ [VO]_Transponder-ID des 2. Schluessels .

Possible key placements at Reader Coil









	96-14-05TT - Immobilizer k	ey / Ke	y Remote Adaptat	tion Test Plan	Release date:	3/12/2021
--	----------------------------	---------	------------------	----------------	---------------	-----------



Figure 2

र्ट्ज Test overview	×
Heating, ventilation, air conditioning system (Repair Group)	*
Electrical System (Repair Group 01; 27; 90 to 97)	
4 01 - Systems capable of self-diagnosis	
▲ 25 - Elect. immobilizer 5A	
4 25 - Immobilizer functions	
25 - Adapt immobilizer	
25 - Immobilizer components status	
25 - Online system test	
Documents Attach to the test plan	Close

Figure 3



96-14-05TT - Immobilizer Key / Key Remote Adaptation Test Plan Release date:

3/12/2021

When prompted by the test plan, make the selection to Repair immobilizer (Figure 4). Control modules Results Orders DISS TSB Operation Special functions Adapt immobilizer 5 -1-Prerequisite -2-Supply This test program supports the adaptation of the immobilizer. Supply For this an ignition key must be available. Please select: DEVICE 1. Repair immobilizer 2. Rewrite all immobilizer data Return Note: Supply If a new identity is implemented, a new key must be inserted into the ignition ck For a new identity the Repair immobilizer must be selected. Prerequisite **NEW IDENTITY - NOTE** 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.	Q	*	
Supply	Control module: Schattafeleinsatz 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: Status:			
CU assignment	- Adougt for Ca			
IO/NIO				
Return				
Evaluation login/release				
+ <u> </u>			*	
	K < > >	Help	Canceltest	

Figure 5



96-14-05TT - Immobilizer Key / Key Remote Adaptation Test Plan Rele

Release date: 3

3/12/2021

Select "Yes" when prompted to perform key adaptation (Figure 6). Control modules Results Orders DISS TSB Test plan Operation Special functions Adapt immobilizer 5 Yes Evaluate key state No woppij Es are 2 Keys adapted to anti-theft immobilizer control module. Set repair shop code Perform a key adaptation? Return Enable immobilizer CU assignment IO/NIO Return Evaluation login/release Supply Evaluate key state , • m K < > > • Help Cancel test

Figure 6

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

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





96-14-05TT - Immobilizer Key	/ Key Remote Adaptation Test Plan	Release date:	3/12/2021

Adapt immobilizer 5			Complete/Continue
Adapt key			
CU assignment	- Switch ignition on with key 2	<u>^</u>	Ν
Enable immobilizer			NI NI
CU assignment			
10/NIO			
Return		-	
Evaluation login/release			
Evaluate immobilizer condition			
SWITCH with/without Kessy/ESCL			
Adapt key			

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

Figure 8

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).

control modules	Resolts Orders DISS TSB Test plan Operation Special Functions
DTC memory	
Engine Cont	trol Module 1 (01 - Engine electronics 1.8-2.0 FSI SULEV) (5G0906259A 0005 2.0I R4 TFSI 06K907425B H13)
▶ 15364 P	161200 Engine control module (ECM) Incorrect coding (01100101 active/static)
» (1) 1717	8 U112300 Databus error value received (00101111 active/static)
≥ 19875 U	1012100 Lost Communication With Anti-Lock Brake System (ABS) Control Module (101011111 active/static)
* Brakes 1 (03	3 - Brake electronics) (3Q0907379P 0385 ESC 3Q0907379C H32)
▶ 8286 U1	12300 Databus error value received (10001001 active/static)
▶ 8314 P1	64700 Checking coding/versions of control modules in drivetrain (00001001 active/static)
Networking diag	ram Control Module List DTC memory list Equipment list
Diagnosis	Display 02 Sorting

Figure 9



96-14-05TT - Immobilizer Key / Key Remote Adaptation Test Plan

Release date: 3/12/2021

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).

ontrol mod	tules Results Orders DISS TSB Test plan Operation Special functions	Operating modes
ests for the	e entre vehicle	Diagnosis
Status	Tests	
	5F - Information electronics 1 -J794	S Forth
	5F - Installation status test/reset DTC memory	A Measurement
	Software version management	into.
-	Adapt software (offline)	Admin
-	Adapting software	
	Code online control module	Log
	Ctrl. module software configuration	Data
-	Function dearing system (FES)	s Current view
4	Function enable system (FES) status	D Print
		Diagnostic session
		, Štop

Figure 10

Additional Information

© 2021 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.