

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Routan	2009	All	All	All	All

Condition

96 14 06 October 3, 2014 2038432

WIN Module Replacement

Revised programing procedure for Marquardt Wireless Control Module (WCM) replacement kits.

Note:

Read this information in its entirety before beginning programming. Failure to do so may result in programming failure.

Technical Background

The Wireless Ignition Node (WIN) module for MY 2009 Routan been superseded to the supplier Marquardt.

These kits come with the Fobiks already programmed to the WIN module. Because of this change there is a revision in the programing of the WIN module.

Note:

WITECH™ SOFTWARE LEVEL MUST BE AT RELEASE 13.04.15 OR HIGHER FOR THIS BULLETIN.

Part No:	Part Description	System Features
7B0998021T	Marquardt WIN Kit (GX1+4K4+4E9)	All Features
(7 button FOB)		
7B0998021S (6 button FOB)	Marquardt WIN Kit (GX1+4F2+4E9)	Power Sliding Door + Power lift Gate + Central Locking
7B0998021R (5 button FOB)	Marquardt WIN Kit (GX1+4F2+4E0)	Power Sliding Door + Central Locking
7B099802Q (3 button FOB)	Marquardt WIN Kit (GX0+4F2+4E0)	Central Locking Only
7B0998021AA (6 button FOB)	Marquardt WIN Kit (GX1+4K4+4E0)	Power Sliding Door + Central Locking W/Remote Start

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Note:

Be sure to match the PR code using a VIN in ETKA to obtain the proper kit configuration. Always check the current vehicle key FOB button configuration to see if the remote start feature has been added to the vehicle. Panic button is included in the all the configurations.

Production Solution

Not applicable.

Service

Using a Scan Tool (wiTECH) with ElsaPro and the appropriate Diagnostic Procedures, verify all engine systems are functioning as designed. If DTC's are present record them on the repair order and repair as necessary before proceeding further with this bulletin.

INOTE:

This procedure requires the wiTECH Desktop Client to perform this procedure. The wiTECH software must be v13.04.15 to program MY2009 Routan WIN. Refer to Service Information VSE-14-18 located on Service Net> under Workshop-Equipment> wiTECH/ StarMobile-Diagnostic-Tool> Service-Information

Install a Volkswagen approved battery charger/maintainer to ensure battery voltage does not drop below 13.2 volts. Do not allow the charging voltage to climb above 13.5 volts during the programming process.

FOR THIS PROCEDURE, the Secret Key data in the new WIN module is the one that should be retained on the vehicle.

Installing new WIN module with preprogrammed FOBIKs

The WIN module and FOBIKs in this package have been preprogrammed together as a set. Because they are programmed these FOBIKs cannot be used with another WIN module or on another vehicle. The original FOBIKs for this vehicle cannot be used with this new WIN module and will no longer be usable.

NOTE:

Because these parts are preprogrammed, the standard WiTECH WIN Replacement procedure must be altered. It is critical that during the installation of the new WIN module that the back-up copy of the Secret Key, stored in the PCM is not transferred to the new WIN module overwriting the programming which matches the supplied FOBIKs. For this reason these instructions must be followed explicitly! Failure to follow these instructions could render the new FOBIKs obsolete.

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Repair Procedure

Remove the original WIN module and install the new WIN module per the Elsa Repair Manual. Insert a new provided FOBIK into the WIN module and switch the ignition to the run position. Connect the WiTECH Desktop Client to the vehicle.



sh Data DTCs Actuators System Tests Misc Functions ECU Details	
ouble-click row selection to launch misc function. Click on column heading to sort table.	
Name	
WIN Replaced	
PCM Replaced	
Reset WIN Configuration	
Erase All Ignition Keys	
Program Ignition Keys or Key FOBs	

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3. When prompted select continue (Figure 3).		
WIN Replaced		
Use this function when the WIN has been replaced.		
	Continue Close	
Figure 3		

4. When prompted, enter the PIN into the new WIN. This step will write the PIN to the new WIN. You will be asking to verify the PIN is correct before this procedure can continue. If PIN is correct select Continue to proceed (Figure 4).

N Replaced		
Enter the vehicle PIN (Personal Identificati authorized personnel on DealerCONNECT u	on Number). The PIN can be found by nder Parts -> Reference Library - Key Code	
Enter Vehicle PIN		
	Continue	lose
ure 4		



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INOTE:

Cycling the ignition key too quickly may interrupt the learn process.

Cycle the ignition key OFF and remove the key for 2 seconds.

Reinsert the ignition key and switch the key to the ACC/ON position.

Using either supplied FOBIK verify the vehicle can be started.

ETip:

If the vehicle starts, the procedure has been successfully.

INOTE:

If the vehicle does not start, something has failed in the procedure. <u>DO NOT CONTINUE</u>. Contact Volkswagen Technical Assistance for assistance.

- If the vehicle started, verify the second FOBIK also starts the vehicle.
- Remove the FOBIK and verify the RKE functions correctly.
- Perform the following steps to complete this procedure.

Procedure Completion:

This procedure will transfer the new Secret Key in the WIN module to the PCM.

	Support in the local division in the local d			(
sh	Data DTCs	Actuators	System Tests	Misc Functions	ECU Details	
ouble	click row select	ion to launch m	nisc function. Click	k on column headir	g to sort table.	
10000					-	
Name						
WIN F	eplaced					_
Name WIN F PCM I	eplaced Replaced					

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7. This screen shows a WARNING that running the "PCM Replaced" procedure may cause a loss of valid secret key information in the PCM. To finish installing the preprogrammed WIN the secret key information in the PCM must be changed, so selecting "Continue" is the correct response (Figure 7).

PCM Replaced	
IMPORTANT!!! Use this function ONL Running "PCM Replaced" in any other information in the PCM, which will req	(when the PCM has been replaced. WARNING!!! case may cause the loss of valid secret key uire cutting and programming of new keys!!!
	Continue
Figure 7	

8. When prompted, enter the PIN. Like the previous step you will be asked to verify the PIN is correct be routine can proceed. Select Continue (Figure 8).	fore the
PCM Replaced	
Enter the vehicle PIN (Personal Identification Number). The PIN can be found by authorized personnel on DealerCONNECT under Parts => Reference Library - Key Code. PIN: Enter Vehicle PIN	
Continue	
Figure 8	

9. When you receive a confirmation that the PIN entered is correct, select Continu	ue (Figure 9).
PCM Replaced	
Correct PIN has been entered.	
Continue	
Figure 9	

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10. When prompted to update the current WIN VIN, select Continue. The PCM already has the correct VIN, but this step is required to proceed to the following steps (Figure 10).

PCM Replaced
Current VIN in the WCM/WIN is 2V8HW34109R501807 To update the current VIN in the PCM continue or exit the routine.
Continue
Figure 10

11. When you will receive a confi	rmation that the VIN write was successful select Continue (Figure11).
PCM Replaced	
VIN write was successful!	
	Continue
Figure 11	

12. The final step is the transfer of the (new) secret key from the WIN to the PCM. This will replace the old secret key with the new secret from the new WIN. When you receive a confirmation that the transfer of secret key was successful, select Close (Figure 12).

PCM Replaced	
Transfer of secret key successful. Cycle ignition key prior to starting the vehicle.	
Close	
Figure 12	

- Cycle the ignition key.
- Verify one more time all FOBIKs and both ignition keys start vehicle.
- Clear any DTCs that were set during the programming of the WIN.

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Warranty

Information only.

Required Parts and Tools

No special parts required.

Tool Description	Tool No:
Midtronics Battery Tester/Charger	InCharge 940 (INC-940) or
	GRX 3000 VAS
StarMOBILE Tester Kit or	CH9401 (SW level 10.01.23 or higher)
VW MICRO POD Tester Kit	VWMICROPOD
wiTECH Desktop Client	(Software level 13.04.15 or higher)

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

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