# **Operation Instructions for the function of UDS Engine Replacement of Volkswagen Audi**

**Function Description:** Perform this function when Engine Replacement is required (Engine ME17.5.22 is used in this case).

**Supported products:** Launch X431PADIII, PADV, PRO Anti-theft matching tool and other diagnostic devices + GIII programmer.

# **Operation guide:**

Select 【Special Function】-> 【Anti-Theft Function】, read the disclaimer carefully, click "OK", and select 【Generation 4 And Above Immobilizer System】, (as shown in the figure below);





Figure 1

### 2. Select [Engine Module Replacement] (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 11.90V
Anti-Theft Key Matching	Immobilizer Module Replacement
Engine Module Replacement	Gearbox Module Replacement

VW				
	$\triangleleft$	0		
		Fig	ure 2	

3. Select 【Platform Mode】 (as shown in the figure below);

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Show Menu	<b>f</b>		P
VW V28.75 > Special Function>Anti-Theft Function			🖽 11.90V
Platform Mode			
Vehicle Mode			

vw	



4. Connect the diagnostic connector and the Immobilizer programmer according to the information shown in the figure, and click "OK" (as shown in the figure below);



Figure 4

5. Select [ME17.5.22 TC1724] (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 12.01V
ME17.5.20	ME17.5.24
TC1767	TC1724
ME17.5.22	MED17.1
TC1724	TC1796
MED17.1.1	MED17.1.6
TC1797	TC1797
MED17.1.10	MED17.1.21
TC1793	TC1793
MED17.1.27	MED17.1.61
TC1793	TC1793
MED17.5	MED17.5.1
TC1766	TC1766
MED17.5.2	MED17.5.20
TC1767	TC1766
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Figure 5

6. Select [View Wiring Diagram] (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 12.01V
Backup EEPROM Data	Back Up FLASH Data
Restore EEPROM Data	Restore FLASH Data
ECU Cloning	Flash&Eeprom Data Decryption
Read Chip ID	View Wiring Diagram

VW						
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Figure 6						

7. Connect the original engine and the Immobilizer programmer according to the wiring diagram, and click "OK", (as shown in the figure below);





8. Select 【Read Chip ID】, (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 12.01V
Backup EEPROM Data	Back Up FLASH Data
Restore EEPROM Data	Restore FLASH Data
ECU Cloning	Flash&Eeprom Data Decryption
Read Chip ID	View Wiring Diagram

VW				
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Figure 8

9. If the engine is successfully connected to the Immobilizer programmer, the chip ID will be displayed, click "OK", (as shown in the figure below);

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Show Menu					A		Ð
VW V28.75 > Special Function>Anti-Theft Func	ction						🖽 11.90V
Backup EEPROM Data		I	Back Up FLASH	Data			
Restore EEPROM Data		I	Restore FLASH	Data			
FCU Cloning		Informat	ion	ption			
	ohio ID: 410005041540725100040000000000						
Read Chip ID	Chip ID. 41000E04	104073310204	00200000000				
		ок					
							-
VW							
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Figure 9

10. Select 【Backup EEPROM Data】 to read the EEPROM data of engine, (as shown in the figure below);

<b>⊸</b> ♥ ⑧					≵ ս⊡⊧ ❤₂օ	1 🖥 64% 11:32
Show Menu				<b>A</b>	ē	P
VW V28.75 > Special Function>Anti-Theft Fun	ction					🖽 11.95V
Backup EEPROM Data		Back Up FLASH Data				
Restore EEPROM Data		Restore FLASH Data				
ECU Cloning	Infor	mation	ption			
Read Chip ID	Reading EEPROM, Progress:					
		37%				
						-
vw						

Figure 10

11. Enter the file name, click "OK", you can also choose the save path, click "OK", (as shown in the figure below);

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Show Menu								<b>f</b>		P
VW V28.75 > Spe	cial Function>A	Anti-Theft Fund		Anti-1	Theft Functio	n				\Xi 11.70V
Backup EEPI	ROM Data		Please Inpu	it The Saved Fi	le Name:					
Restore EEP	ROM Data		CA	NCEL		ОК				
ECU Cloning					Flasha	&Eeprom Da	ta Decryptic	n		
										Ŷ
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а	S	d	f	g	h	j	k	I		€ ⊖
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?123	,									٢
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Figure 11

12. Select 【Back Up FLASH Data】, the current read/write data volume of FLASH is large. To improve communication stability, please use the USB for connection, click "OK" (as shown in the figure below);

<b>⊸</b> 4. (\$)					≵ս0⊧ ❤₂օ	ii 🖥 63% 11:35
Show Menu				<b>f</b>	F	P
VW V28.75 > Special Function>Anti-Theft Fun	ction					🖽 12.01V
Backup EEPROM Data		Back Up FLASH	l Data			
Restore EEPROM Data		Restore FLASH	Data			
ECI I Cloping	Inf	ormation	ption			
	The Current Read/Write Dat	ta Volume Is Large. To In	nprove			•
Read Chip ID	Communication Stability, Us	se The USB For Connecti	ion.			Ŭ
		ок				
VW						

Figure 12

13. Back up FLASH data, enter the file name and save the data (as shown in the figure below);



Figure 13

14. Select 【Flash&Eeprom Data Decryption】 (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 12.01V
Backup EEPROM Data	Back Up FLASH Data
Restore EEPROM Data	Restore FLASH Data
ECU Cloning	Flash&Eeprom Data Decryption
Read Chip ID	View Wiring Diagram

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15. Respectively select 【Load FLASH Data】 and 【Load EEPROM Data】 to load the backed up EEPROM data and FLASH data (as shown in the figure below);

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Flash&Eeprom Data Decryption				<b>A</b>		Þ
VW V28.75 > Special Function>Anti-Theft Fun	ction				6	🗄 11.92V
Process Function				Status		
Flash Data				Not Loaded		
EEPROM Data				Not Loaded		
Load Flash Data		Load EEPROM Data	Dec	ode	Return	
VW						
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Figure 15

## 16. Select "Decode", (as shown in the figure below);

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Flash&Eeprom Data Decryption						F
VW V28.75 > Special Function>Anti-Theft Fur	oction					🖽 11.92V
Process Function				Status		
Flash Data				Loaded Al	ready	
EEPROM Data				Loaded Al	ready	
Load Flash Data				Decode	_Po	turn
		Load EEPRON Data		Decoue	Re	tum
VW						
	$\triangleleft$	0				

Figure 16

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Flash&Eeprom Data Decryption					<b>A</b>		ŀ
VW V28.75 > Special Function>Anti-Theft Fun	ction			_			🖽 11.92V
Process Function					Status		
Flash Data					Loaded Alrea	idy	
EEPROM Data					Loaded Alrea	idy	
		Informa	tion				
	Do You Want To Note: The Save Replacement	Save The Data? d Data Can Only E					
	NO			YES			
Load Flash Data	Load EEPROM Data Decode					Retu	irn
VW							
	$\triangleleft$	0					
		Figur	e 17				

17. Click "Yes" to save the decrypted data (as shown in the figure below);

18. After saving the decrypted data of original engine, you can view the relevant data of engine, click "OK" (as shown in the figure below), connect the external engine and the Immobilizer programmer, and follow step 6-13 to back up the EEPROM&FLASH data of external engine;

▲ 公			≵ ։⊡⊧ ⊽₂ս	57% 13:58
Information		<b>A</b>		P
VW V28.75 > Special Function>Anti-Theft Function				🖽 11.85V
Immobilizer Data	Value			
VIN (Vehicle Identification Number) :	LSVNV4B			
CS:	FDFE99CA546251BD75			
MAC:	5B37DB36			
Power Level:	D8			
	Confirm			
VW				
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Figure 18

19. Click the Return button after the external engine ECU installed, go back to the submenu of engine replacement module and select 【Vehicle Mode】 (as shown in the figure below);

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Show Menu			<b>A</b>		ŀ
VW V28.75 > Special Function>Anti-Theft Func	tion				🖽 11.85V
Platform Mode					
Vehicle Mode					
VW					
	$\Diamond$	0			

Figure 19

20. Select 【4<sup>th</sup> Generation Immobilizer】 (as shown in the figure below);

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Show Menu		<b>A</b>		P
VW V28.75 > Special Function>Anti-Theft Function				🖽 11.88V
Automatic Detection Of Anti-Theft System	4th Generation Immobilizer			
5th Immobilizer	MQB Anti-Theft System			

VW			
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Figure 20

21. The CS code decrypted by the engine is 16 bytes, click "No", (as shown in the figure below);

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Show Menu					A	ē	F
VW V28.75 > Special Function>Anti-Theft Fund	ction						🖽 11.61V
Automatic Detection Of Anti-Theft S	ystem		4th Generation Irr	mobilizer			
5th Immobilizer		i	MQB Anti-Theft S	ystem			
		Informa	tion				
	Does The CS ( The Engine Co	Code Currei ontain 7 byte	ntly Decrypted E es?	Зу			•
	NO		YES				
VW							
	$\bigtriangledown$	0					

Figure 21

22. Select 【Step 1: Obtain Anti-theft Data of External Engine (Not Executed)】 (as shown in the figure below);

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Show Menu	
VW V28.75 > Special Function>Anti-Theft Function	🖽 11.61V
Step 1: Obtain Anti-Theft Data Of External Engine (Not Executed)	
Step 2: Obtain Anti-Theft Data Of Original Engine (Not Executed)	
Step 3: Replace Anti-Theft Data	
	•



Figure 22

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23. Load the decrypted data, select 【Step 2: Obtain Anti-theft Data of Original Engine (Not Executed)】 (as shown in the figure below);

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Show Menu	<b>f</b>		ŀ
VW V28.75 > Special Function>Anti-Theft Function			🖽 11.61V
Step 1: Obtain Anti-Theft Data Of External Engine (Completed)			
Step 2: Obtain Anti-Theft Data Of Original Engine (Not Executed)			
Step 3: Replace Anti-Theft Data			0
			U

VW			
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Figure 23

### 24. Select **[**Obtained From Dump Data **]** (as shown in the figure below);

Show Menu 🔒 🔒	P
VW V28.75 > Special Function>Antl-Theft Function	🖽 11.61V
Manual Input Data	
Obtained From Dump Data	

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VW				

Figure 24

25. Respectively load the original EEPROM and FLASH data to be backed up, and select **[**Decryption **]** (as shown in the figure below);

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Flash&Eeprom Data Decryption					<b>î</b>		ŀ
VW V28.75 > Special Function>Anti-Theft Func	ction						🖽 11.61V
Process Function					Status		
Flash Data		me17.5.22 fla	ish yuanche_	_en.bin			
EEPROM Data					me17.5.22 ee	prom yuanc	he_en.bin
							G
Load Flash Data	L	oad EEPROM Data	а	Deco	ode	Retu	urn
VW							
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Figure 25

26. Select 【Step 3: Replace Anti-theft Data】 (as shown in the figure below);

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Show Menu	<b>f</b>		ŀ
VW V28.75 > Special Function>Anti-Theft Function			🖽 11.61V
Step 1: Obtain Anti-Theft Data Of External Engine (Completed)			
Step 2: Obtain Anti-Theft Data Of Original Engine (Completed)			
Step 3: Replace Anti-Theft Data			0

VW			
	$\triangleleft$	0	



27. Confirm that the external engine has been installed on the vehicle, click "OK" (as shown in the figure below);



Figure 27

28. Please insert the key or place the key near the key sensing area, turn on the ignition switch to illuminate the instrument, and click "OK" (as shown in the figure below);

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Show Menu					A		P
VW V28.75 > Special Function>Anti-Theft Fun	ction						🖽 11.61V
Step 1: Obtain Anti-Theft Data Of Ext	ternal Engine (Co	mpleted)					
Step 2: Obtain Anti-Theft Data Of Ori	ginal Engine (Cor	mpleted)					
Sten 2: Replace Anti-Theft Data		Informati	on				
	Please Insert The Key Or Place The Key Near The Key Sensing Area, And Turn On The Ignition Switch To Illuminate The Instrument						•
	ок						
vw							
	$\triangleleft$	0					

Figure 28



29. Input the PIN of the target vehicle (as shown in the figure below);

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