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7-Gear control units renew with Mercedes Commander

The 7-Gear control units (722.9) may be renewed either in or out of a car. In order to renew a Specific 7-Gear control unit out of the car it is necessary only to connect the CAN pins of the 7- Gear unit, as well as the GND and +12V pins. The wiring of the 7-Gear units is the following:



Supported Part Numbers for 7G ETC renew: 033 545 6632 033 545 6732 033 545 7232 033 545 7332 003 446 0310 Supported Part Numbers for ISM control units renew:

All ISM units in W164, X164 and W251 All ISM units in W221 and W216

1. Select vehicle and connect to the Electronic Transmission Control unit.

#	Unit name	Prot	DTC 🔺	
01	Motor Electronics	CAN/UDS		
02	Electronic Transmission Control	CAN		
03	Trans er Case	CAN		Previous
04	Inter 1 et differential lock at rear axle	CAN		[]
05	Intelligent Yrvo Module	CAN		
06	Fuel Pump	CAN		
07	Distronic	CAN		·
08	Outer right rear incell gent radar sensor system	UDS		THE N
09	Outer left rear intelligin adar sensor system	UDS		
10	Selective Catalytic Reduction	UDS		Open
11	AIRmatic / Suspension (Active Jody Control)	CAN		
12	Electronic Stability Program	CAN	· · · · · ·	
13	Tire Pressure Monitor	CAN		
14	Airbag	CAN		
15	Weight Sensing System	CAN		
16	Left Front Reversible Emergency Tensioning Retractor	CAN		
17	Right Front Reversible Emergency Tensioning Retractor	CAN		Next
18	Electronic Ignition Switch (EZS)	CAN		
*	Vehicle Selection 🛛 🖓 Special Functions 🕅 🚱 Options	S. C.		
Chas	ssis: GL-Class	~0/		
Mode	let: X164 (2006-)	can for Units	Clear	Mall DTCs
Engir	ne: Diesel			

2. The Mercedes Commander will show the identification of the control unit.

A Electronic Transı	mission Control					×
					CAN ISO	
Establishing a Diagnostic char	diagnostic sessi mel is open.	on with the select	ed unit		×	Previous
Mercedes-Benz I Supplier Hardware Versio Software Versio	No. : 03 35 45 : Siemens on : 09 / 04 on : 50 / 06	W.KEVD				Clear log
Diagnosis Vers: Date of Manufa	ion : 1 / 1 sture: 01.02.07	10	POGY			Write log
ч			410	OLS.CC	<u>.</u>	Next
Identification	Read DTCs	Clear Crash Data	Adaptation	Reflash	AB·R·I·T·E·S automotive solution:	s
Extended Identification	Clear DTCs	Security Access	Reset	vVrite ID		
Actual Values	Actuator Tests	Custom Memory Read / Write	Custom Requests	MAKE VIRGIN		0 E <u>x</u> it

3. Pressing the button "Adaptation" will show the available adaptations including the SCN coding string. You may save the SCN coding string from a damaged control unit and then you can save this saved SCN coding in the donor 722.9 control unit:

Parameter	Coding		
Original VIN	XXXXXXXXXXXXXXX		
Current VIN	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		
SCN Coding			
Detach the transport protection, personalize and activate	Yes		
	No.		
	9 9		
20	2		
(Y)			
10			
)/		
	6.0		
	0		
	×		
Get Corting Set Corting	Help		
	(nep) Card		
Ready			
Pressing the button "Make Virgin" will show you the f	ollowing screen:		
1			
A			



Follow these recommendations:

ZT

- Connect a battery charger to the battery of the car.

- Plug the diagnostic connector and make sure it is correctly seated in the diagnostic socket.

– If you are using a laptop – connect it to constant power supply. It is also recommended to stop any screensavers, antivirus and other programs, which may affect the performance of the system.

5. <u>The first time that you use this function, the software will ask you for the location of the database files for 7-Gear renew. Please, browse to the folder where you have extracted these files and select it.</u>



6. <u>A progress bar will appear showing you the time and the completed</u> percentage. Please, wait until the procedure is complete.



7. When the procedure is complete you may check the "Actual Values" and verify that the Electronic Transmission Control unit reports that it is renewed.

8. Now, you should put the 722.9 unit in the car in which you wish to adapt it and once again connect to it and press the button "Adaptations". Press the button "Get Coding". Then for the option "Detach the transport protection, personalize and activate the control unit" select "Yes" and press the button "Set Coding". Go back and check the actual values. If everything is OK the 7G unit should report that now it is personalized and you should be able to see the hashes of the keys.

9.If you have the old control unit available you may read the SCN coding and then write this SCN coding in the renewed control unit.

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