

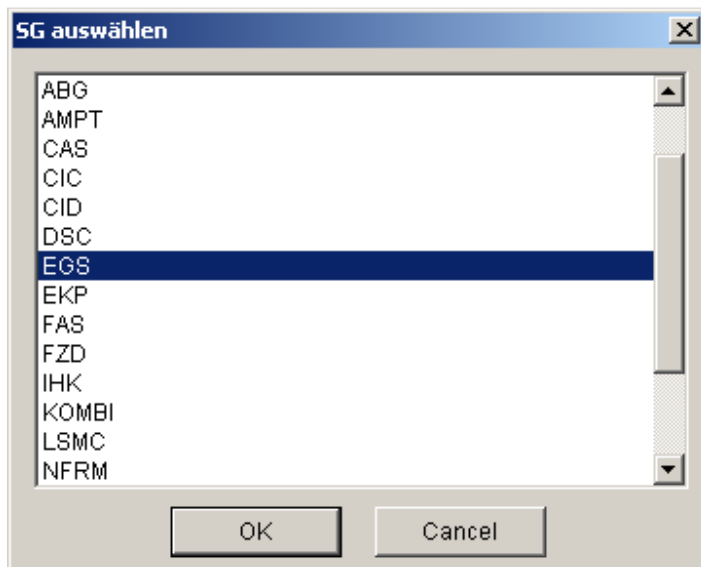
## Flashing a new calibration for the E90 EGS with WinKFP V5.3.1

**Warning:** Do not attempt this without connecting a good battery charger (at least 5A-10A) and good battery health. BMW recommends power supplies that can deliver 40A. If this fails it can make the flashed component permanently unusable.

**Disclaimer:** The author or poster of this document cannot be held liable for damage to or loss of function of any component of a vehicle by following this documentation. Neither can the author or poster of this document be held liable for any effect resulting from updating the SW and/or calibration of any component of a vehicle by following this documentation.

First, you'll have to save the current coding of your EGS with NCS-expert. Flashing a new calibration and/or SW will reset all coding data of the EGS. This means, if your car has paddle shifters behind the wheel, they will not work after flashing with WinKFP until you have restored the coding of the EGS.

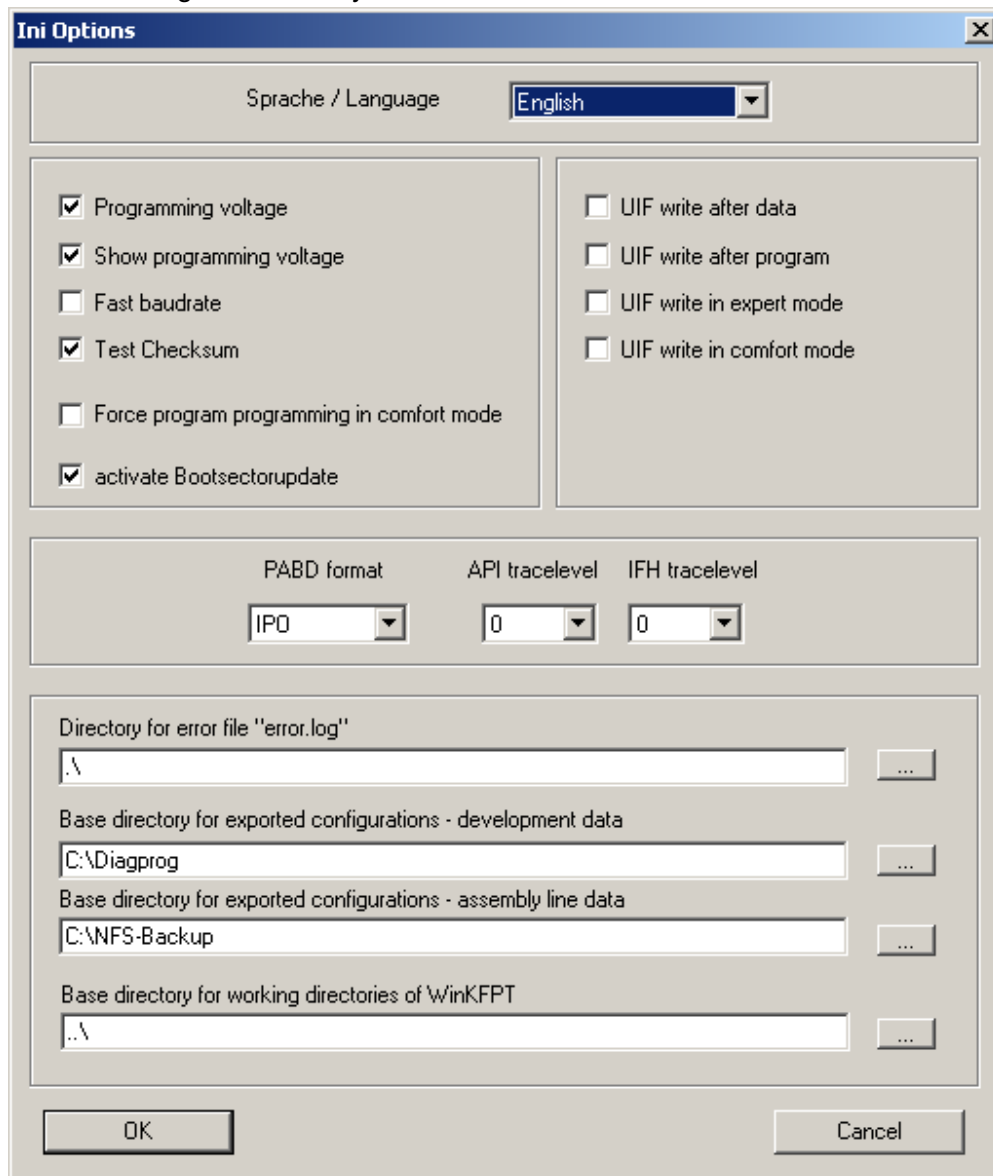
Go to <http://forums.bimmerforums.com/forum/showthread.php?t=1553779> and learn how to use NCS-expert and NCS dummy. Select the EGS



and save the original FSW\_PSW.TRC of your EGS. If you have paddle shifters, it should look something like this:



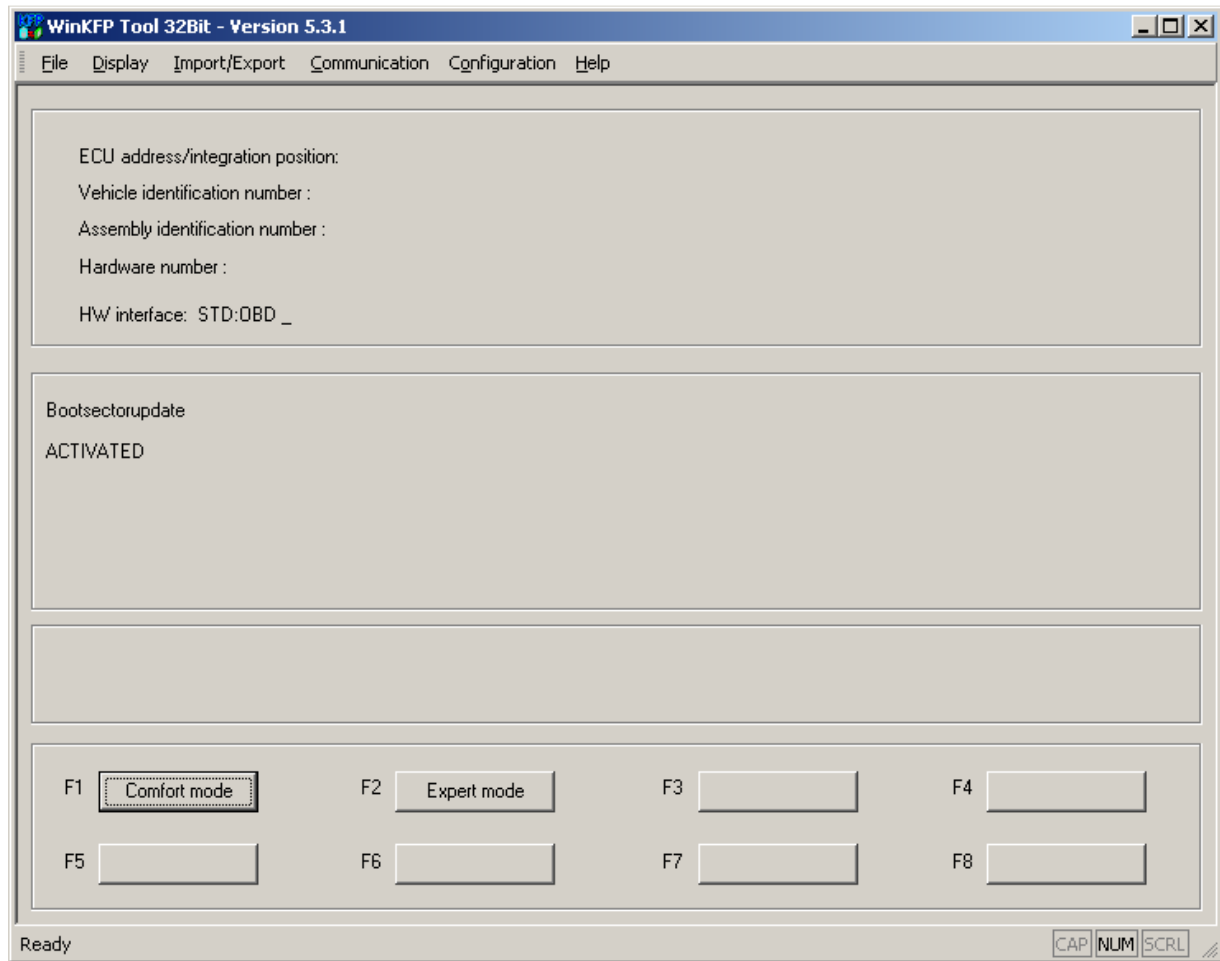
After installing and importing the correct data (separate documentation), make sure to have WinKFP configured correctly:



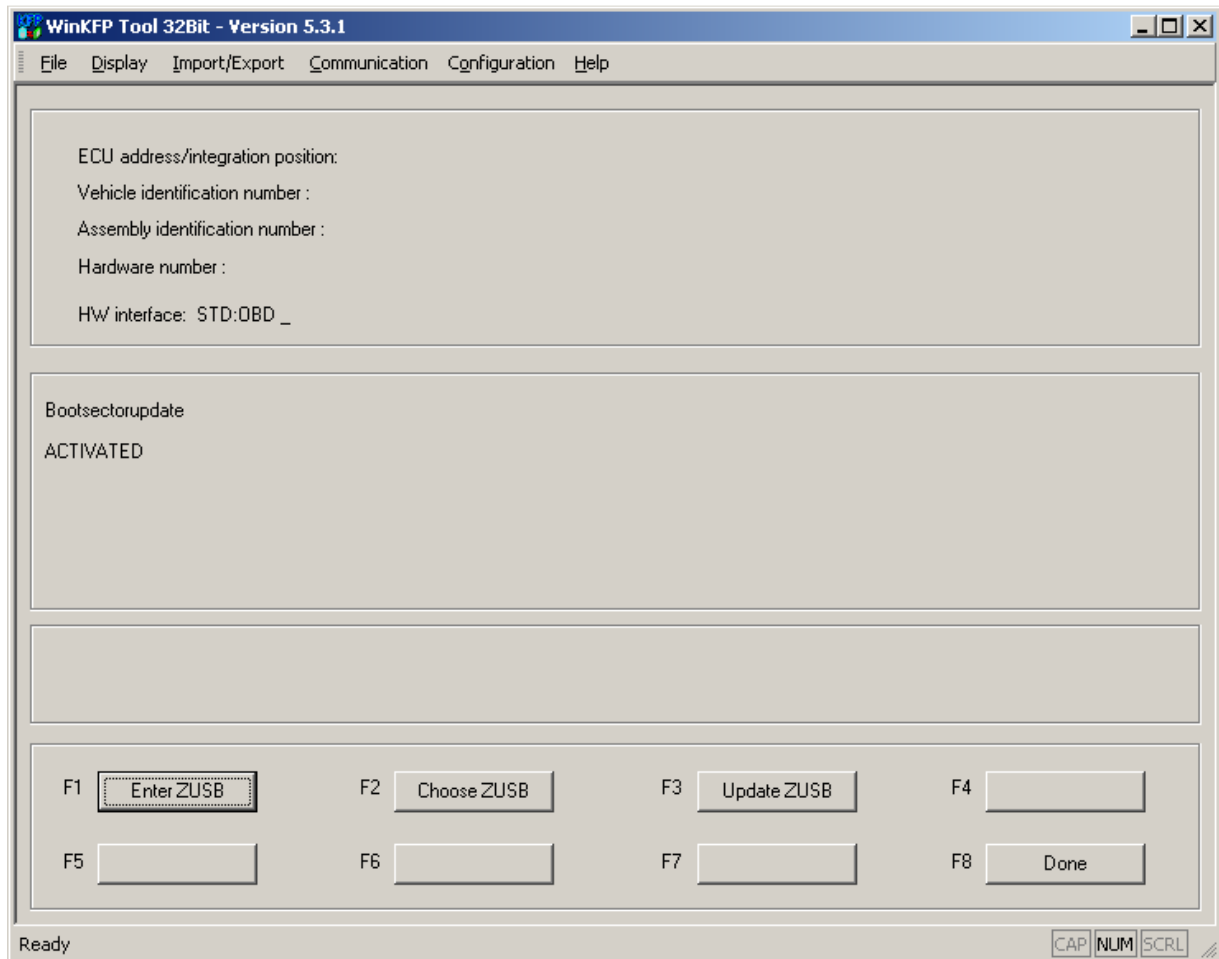
If the UIF fields stay checked, you'll need to input the complete VIN during the flash preparation stage. The User Information field (UIF) can only be updated 62 times.

Turn on Ignition, do not start the engine. Turn off all unnecessary loads (lights, ventilation, radio, etc.).

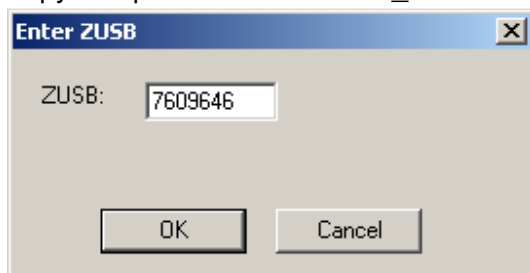
On the main screen select "Comfort mode":



Then “Enter ZUSB”



Copy and paste the current ZB\_NR from the Ediabas AIF\_lesen job into the following screen.



After that you'll be presented with the available ZB numbers for the selected ECU family (GKE195): Choose the ZB number of the SW to be flashed:

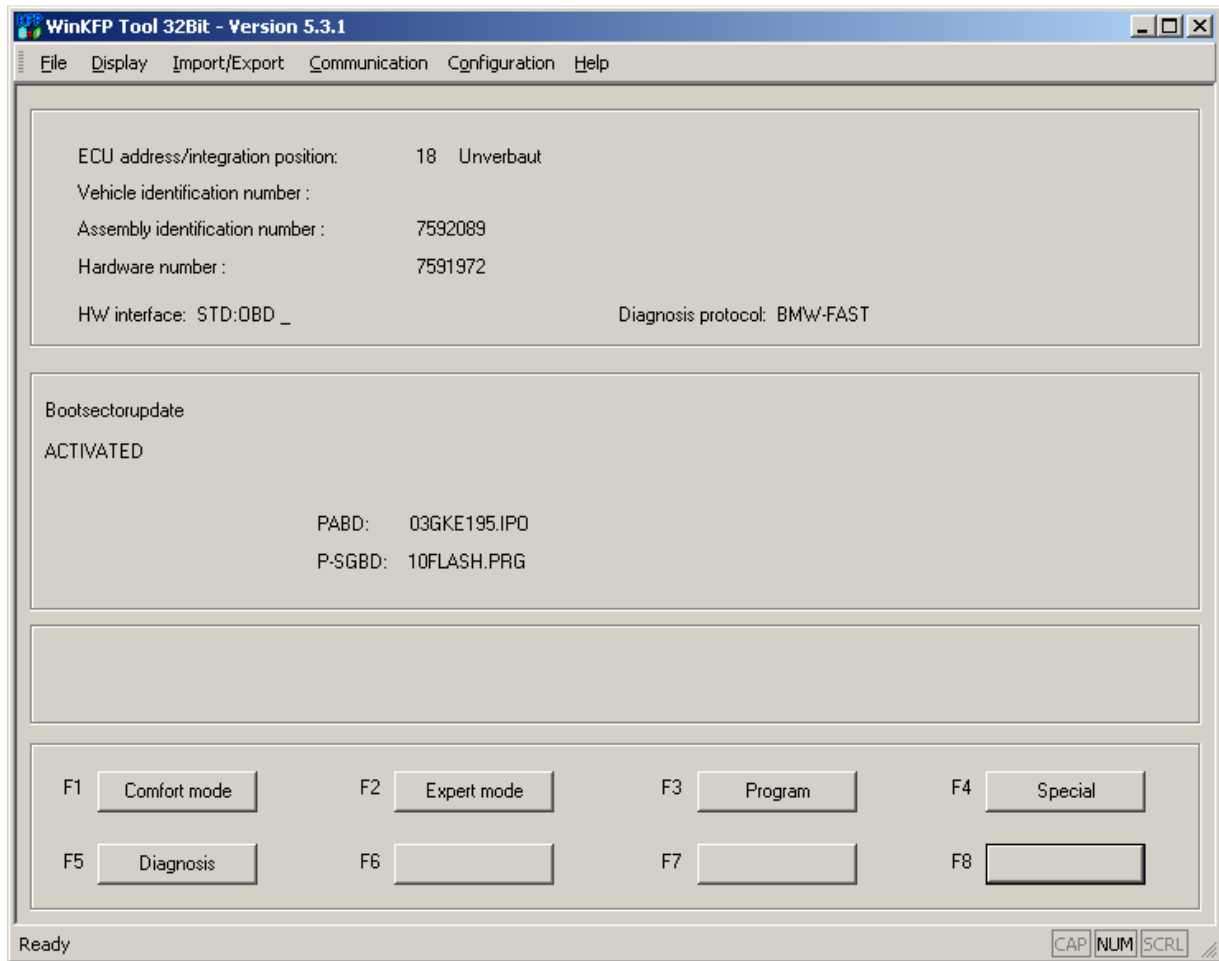
Choose assembly identification number / integration position

ECU family:	ZB-Number:	Integration position:
GKE195	7569994	Unverbaut
	7569996	-
	7587867	
	7592089	
	7595728	
	7606273	
	7609646	
	7610590	

OK Cancel

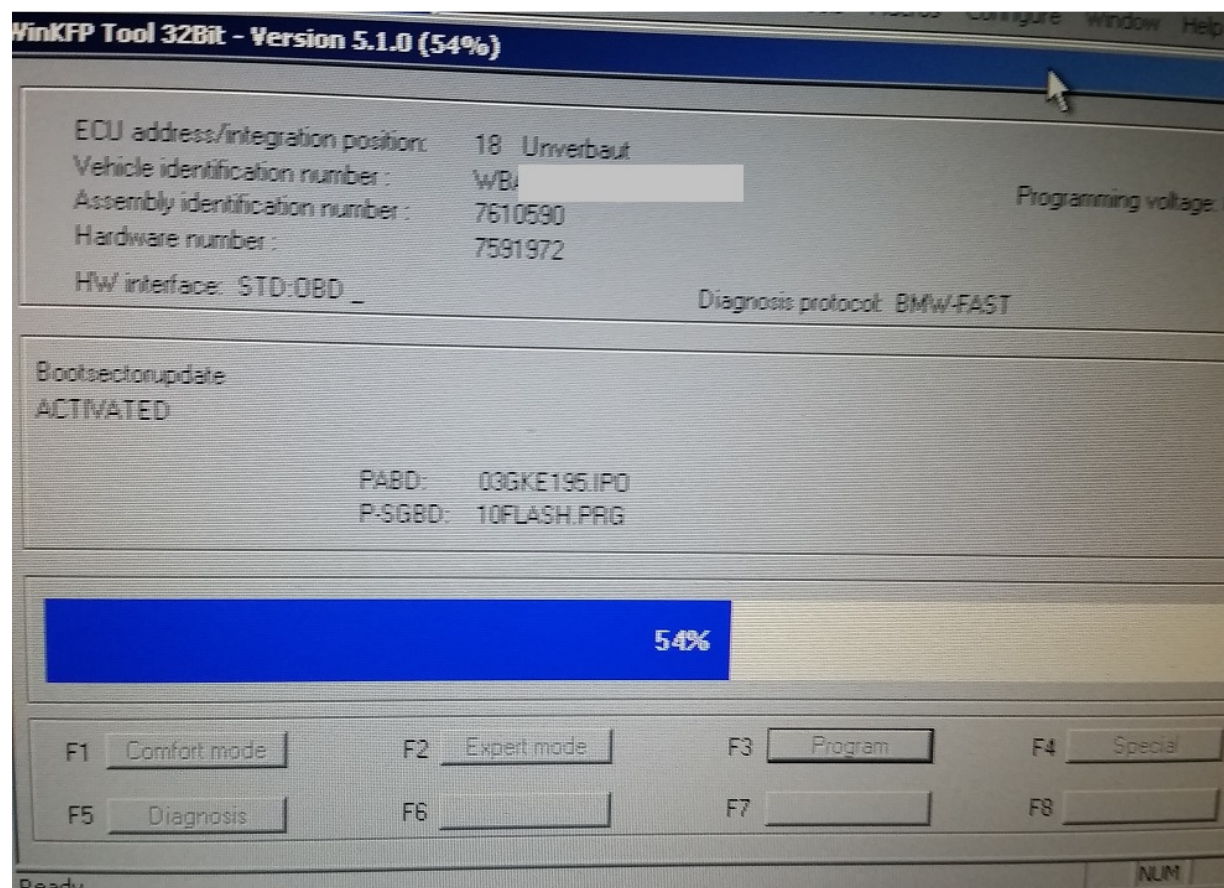
Hit OK then Done (F8).

The screen should look like this now:



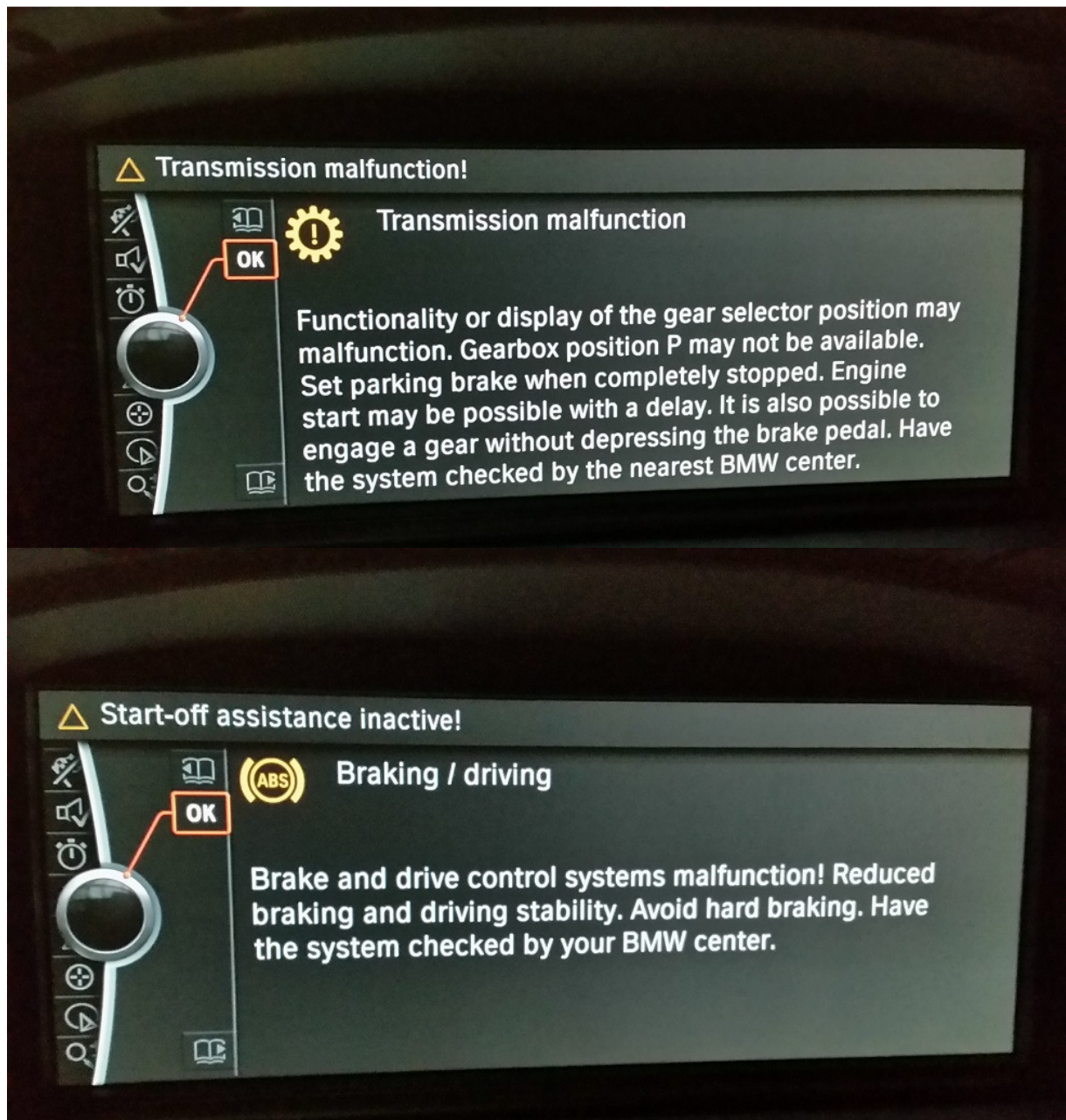
Next, hit Program (F3). This will start the update - no further warnings.

While flashing WinKFP shows a progress bar. Updating the Daten file should only take about 2 minutes. If the field "Force program programming in comfort mode" was selected, there will be two flashing sessions: First the Program which takes about 5-6 minutes and then the calibration file. However, updating the SW is not necessary as we are just updating the calibration.



Also, there may be a couple of chimes and error messages popping up on the CIC. That is normal as the other ECUs can't communicate with the transmission when it is being flashed.



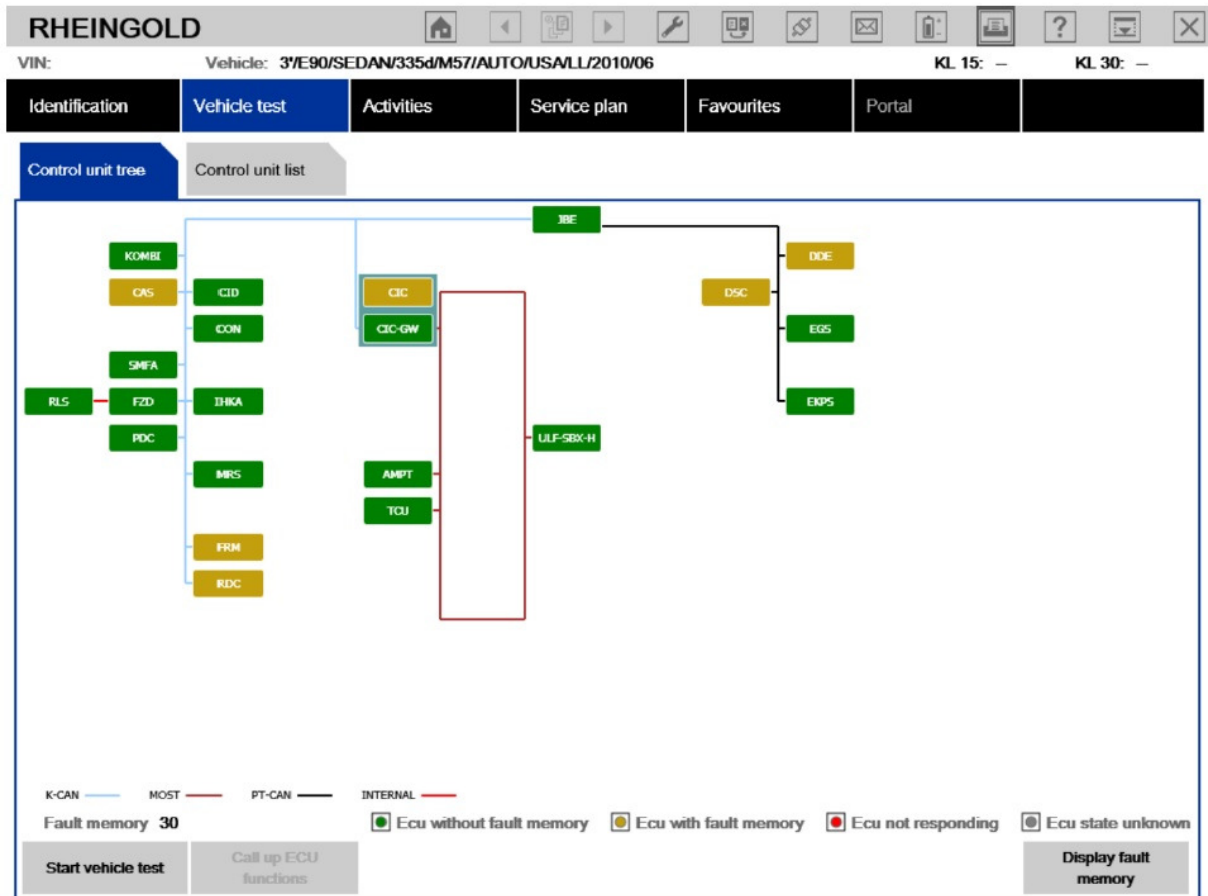


If everything went fine, you'll get this message:



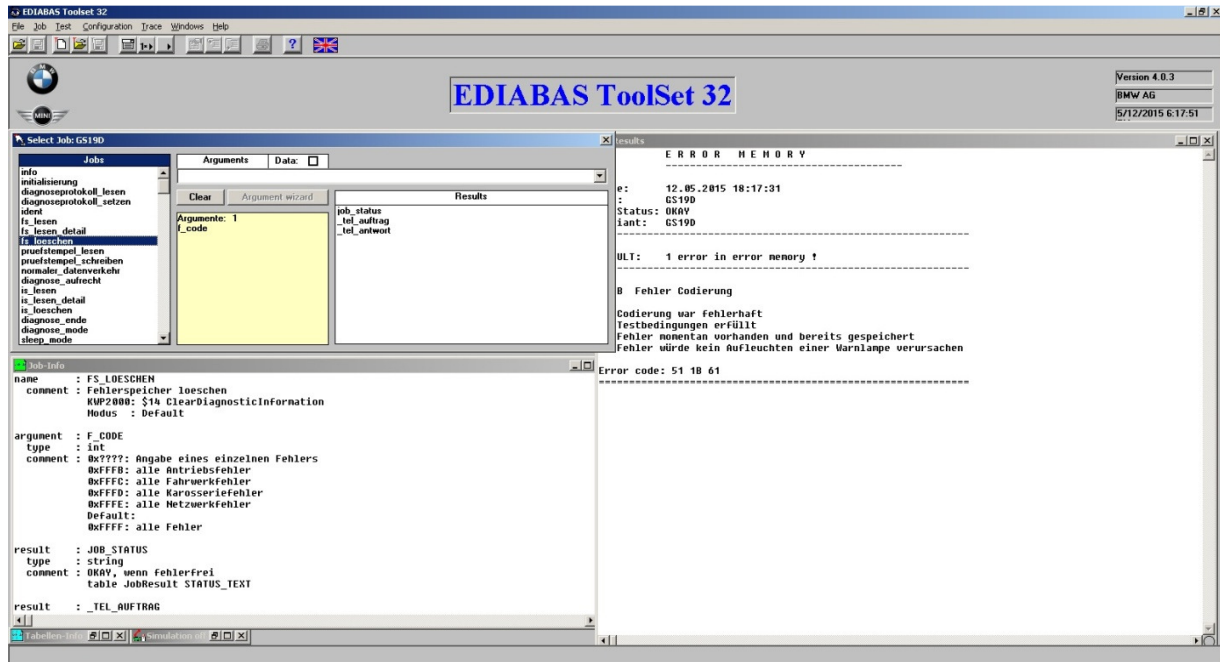
Close WinkFP and restore the coding of the EGS with NCS-expert.

Now it's time to clear all faults: Either with Rheingold which can query all ECUs and clear all faults at once:



Or with Ediabas, one by one:

Load GS19D.prg and execute fs\_lesen, then fs\_loeschen.



Then repeat the same for:

- D73N57C0.prg (DDE)
- DSC\_87.prg (Dynamic stability control)
- CID\_90.prg (Car information display)
- CAS.prg (Car access system)
- FRM\_70.prg (Drivers side Footwell module)
- RDCKWP.prg (Tire pressure monitor)

Lastly, perform a reset of transmission adaptations with Ediabas:

Load GS19D.prg and double click "steuern\_adaptionswerte\_ruecksetzen":

EDIABAS Toolset 32

File Job Test Configuration Trace Windows Help

EDIABAS ToolSet 32

Version 4.0.3  
BMW AG  
5/25/2015 4:47:45

Select Job: GS19D

Jobs

- status\_adaptionswerte\_5
- status\_adaptionswerte\_6
- status\_adaptionswerte\_7
- status\_adaptionswerte\_8
- status\_adaptionswerte\_9
- status\_adaptionswerte\_10
- status\_adaptionswerte\_11
- status\_adaptionswerte\_12
- status\_adaptionswerte\_13
- status\_adaptionswerte\_14
- status\_adaptionswerte\_15
- status\_adaptionswerte\_16
- status\_adaptionswerte\_17
- status\_adaptionswerte\_18
- steuern\_adaptionswerte\_ruecksetzen
- quicktest
- esp\_diagnose\_testjob
- status\_hardware\_referenz

Arguments

Data: ☐

Clear Argument wizard

Results

job_status	tel_antwort	tel_auftrag

Job-Info

name : STEUERN\_ADAPTIONSWERTE\_RUECKSETZEN  
comment : alle Adaptionswerte ruecksetzen  
KWP2000: \$31 StartRoutineByLocalIdentifier  
Modus : Default

result : JOB STATUS  
type : string  
comment : OKAY, wenn fehlerfrei  
table JobResult STATUS\_TEXT

result : \_TEL\_ANTWORT  
type : data  
comment : Hex-Antwort von SG

result : \_TEL\_AUFTRAG  
type : data  
comment : Hex-Auftrag an SG

Results

apiJob("GS19D","steuern\_adaptionswerte\_ruecksetzen","", "")

Satz : 0

OBJECT	= gs19d
SAETZE	= 1
JOBNAME	= steuern_adaptionswerte_ruecksetzen
VARIANTE	= GS19D
JOBSTATUS	=
UBATTICURRENT	= -1
UBATTISTORY	= -1
IGNITIONCURRENT	= -1
IGNITIONHISTORY	= -1

Satz : 1

JOB STATUS	= OKAY
_TEL_ANTWORT	= 6 Bytes
0000 : 82 F1 18 71 A0 9C	?ñ.q ?
_TEL_AUFTRAG	= 5 Bytes
0000 : 82 18 F1 31 A0	?ñ1