Teach-in periods for spare key:

When teaching in a spare key the drive authorization values still stored and not used in the "old key" are reset.
Insert the spare key in the electronic ignition switch (EZS). The spare key is taught in simultaneously in the electronic ignition switch and electric steering lock (ESL).

Once the computing process in the electronic ignition switch and electric steering lock has finished the ignition can be switched on again. The engine control unit (MSG) and the electrical selector lever module (EWM) can now teach in the spare key.

ℹ️ The computing process is terminated by removing the key (with EZS and ELV) or an ignition "Off" (with EWM and MSG). If the key is inserted again or the ignition is switched on the computing process starts from the beginning. The CPU time extends accordingly.

	Model 203	Model 209	Model 210	Model 211	Models 215, 220	Model 230
Spare key (total time of all components) is displayed by:	90 min. Instrument cluster "vehicle computes"	90 min. Instrument cluster "vehicle computes"	120 min. -	90 min. Instrument cluster "vehicle computes"	260 min. Instrument cluster "vehicle computes"	90...135 min. Instrument cluster "vehicle computes"
EZS	45 min.	35 min.	80 min.	35 min.	45...80 min.	45 min.
ELV	50 min.	50 min.	50 min.	50 min.	-	50 min. (when fitted)
EWM	-	-	-	-	180 min.	90 min. (when fitted)
Engine control unit (MSG) (FBS2)	-	-	not necessary	-	not necessary	-
Engine control unit (MSG) (FBS3)	30...40 min.	30...40 min.	30...40 min.	30...40 min.	30...40 min.	30...40 min.

Additional key:
Teaching in an additional key does not require any considerable time. The key only has to be used for the first time which does not take essentially longer than normal key use (< 1 second).

Components:
If one of the electronic ignition switch, electric steering lock, engine control unit or electronic selector module components is replaced, only a personalization of these components via Star Diagnosis or the workshop key is needed. The actual personalization process takes a maximum of 30 seconds.

⏱️ Possible causes for longer CPU times:

1. Undervoltage at the vehicle can lead to the termination of the computing process. The computing process is stated again after reset.

2. A spare key (on the same key track) has already been programmed but not taught in. This lead to a doubling of the CPU time, as the values of the key which has not been taught in likewise have to be reset, i.e. the computing process on models 215/220 can take a maximum of 520 minutes, or 8.5 hours.