

Model 3 Resetting Airbag Crash Data Instruction

Function Introduction

This function is used to reset airbag crash data in order to recycle airbag ECU (Electric Control Unit). (In some countries, erasing airbag crash data without changing airbag assembly is not legal. So, we highly recommend to replacing car's entire airbag assembly).

Condition requirements

Device requirements: Android diagnostic devices, Tesla airbag repair designated connector

Software requirements: TESLA V10.02 or above version

— Preparation (For some Model 3 vehicle, there's no need to remove airbag ECU. If OBDII can communicate normally, please skip this procedure)

1. Remove airbag ECU from vehicle

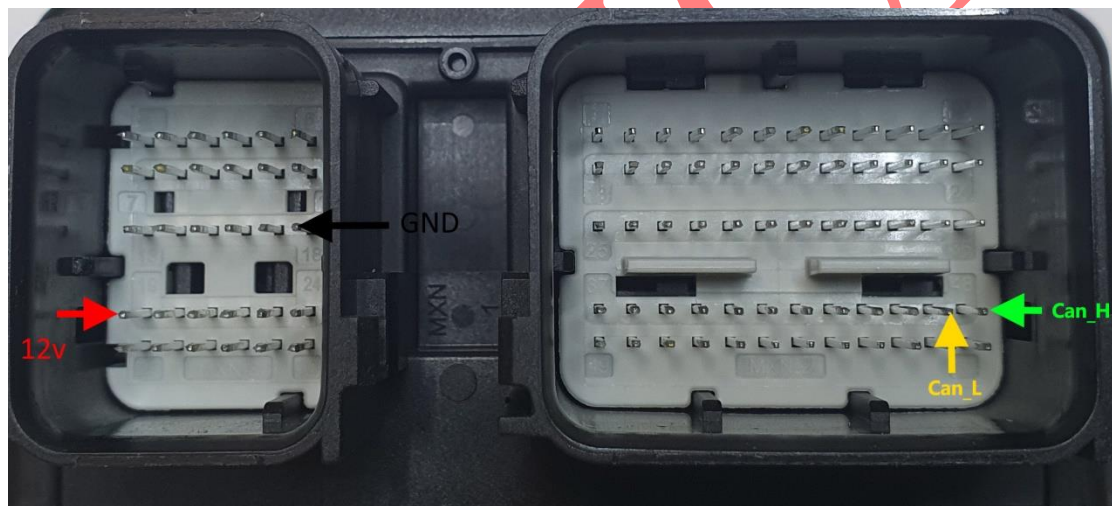
Airbag ECU picture



Airbag ECU connection position

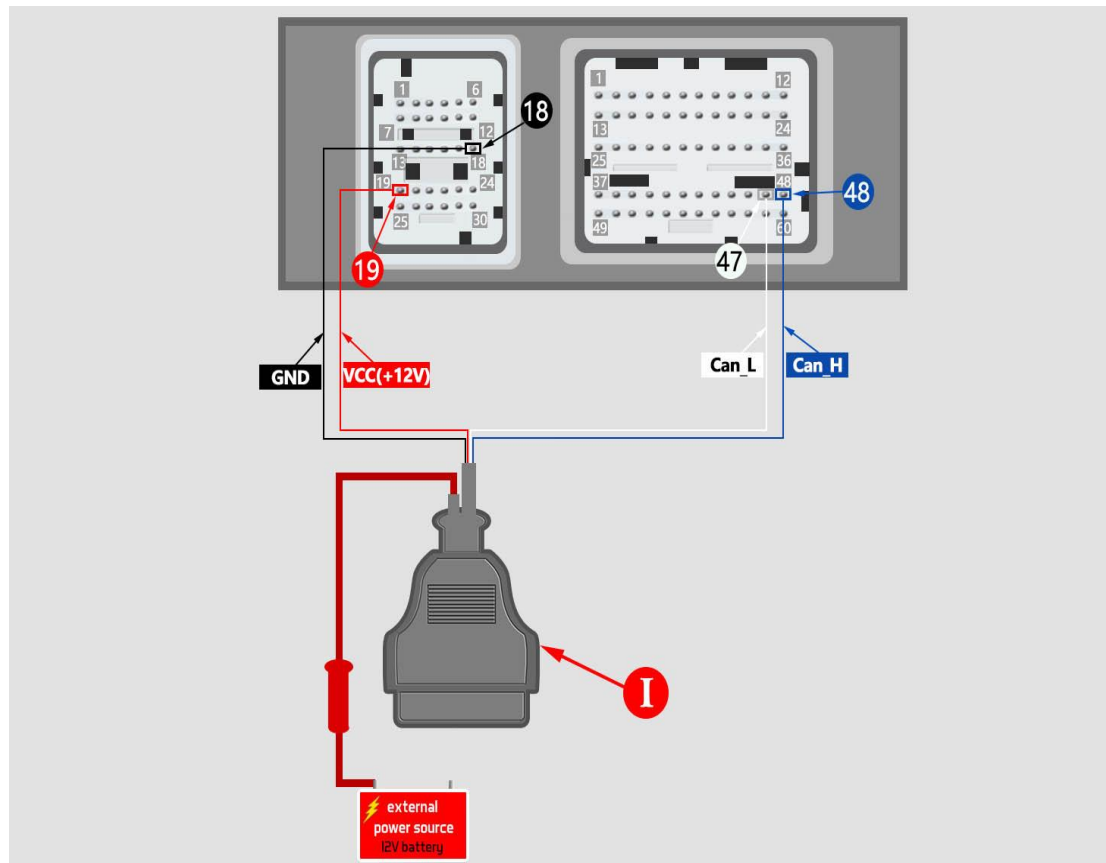


2. Airbag ECU wiring diagram
Wiring and pin allocation



- +12V: 12V power supply
- GND: Ground wire
- CAN_H: CAN high
- CAN_L: CAN low

Tesla airbag repair designated connector wiring diagram



二. Resetting airbag crash data software operation procedure

1. Go into Tesla software, select **【Model 3】** -> **【Special Function】** -> **【Service AIRBAG】**, as shown in figure 1, or select **【Model 3】** -> **【System Selection】** -> **【SDM Airbag】** -> **【Special Function】**, as shown in figure 2.

Figure 1

Show Menu	
TESLA V10.02 > Manually Select > Model 3 > Special Function	
Crash Data Resetting Automatically	Unlock EEPROM After Crash
Read EEPROM	Erase Crash Record
Erase Crash - Direct	Write EEPROM
Clear Fault Code	

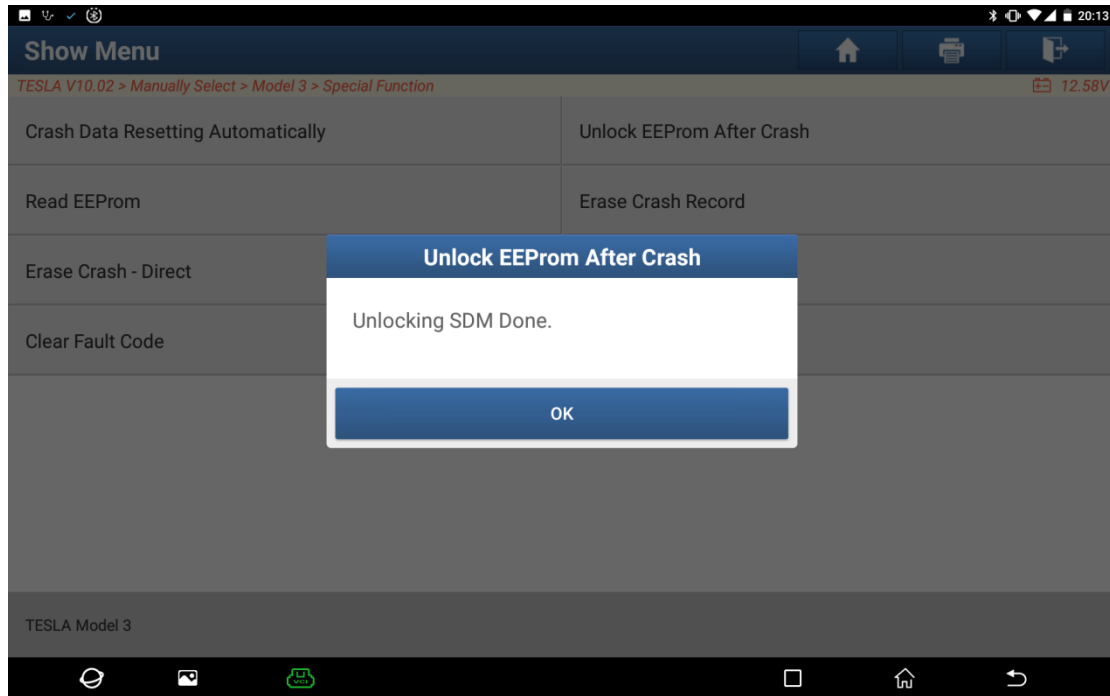


Figure 2

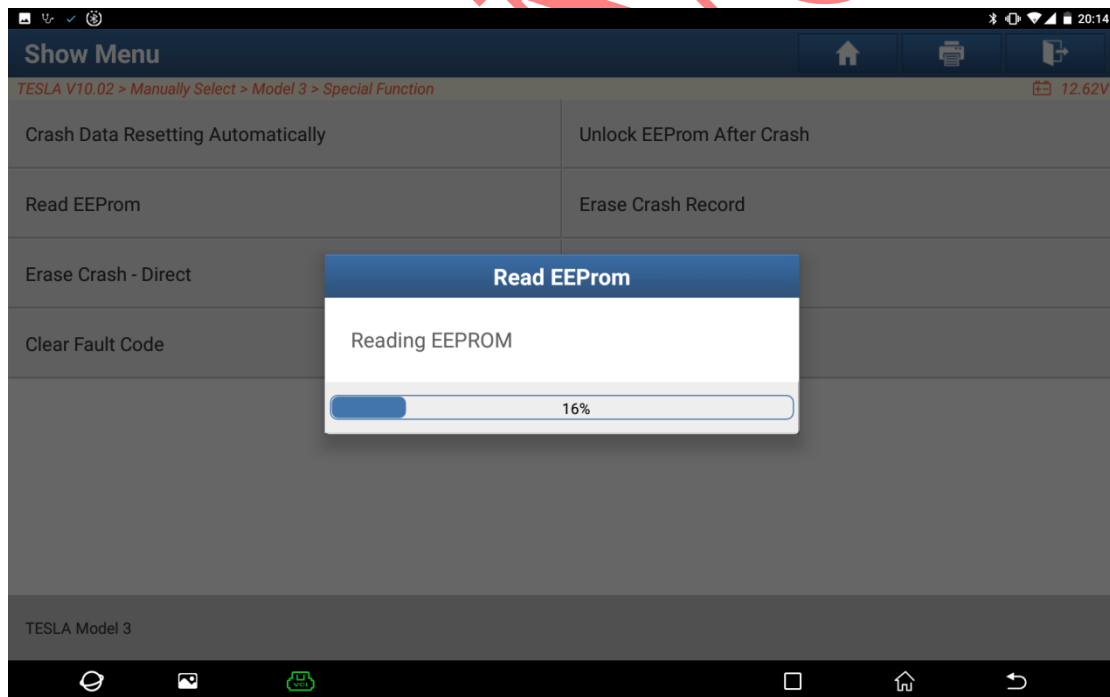
Show Menu	
TESLA V10.02 > Manually Select > Model 3 > System Selection > SDM By BOSH (Supplemental Deployment Module)	
Crash Data Resetting Automatically	Unlock EEPROM After Crash
Read EEPROM	Erase Crash Record
Erase Crash - Direct	Write EEPROM
Erase VIN	Reset ECU
Read Resistance	



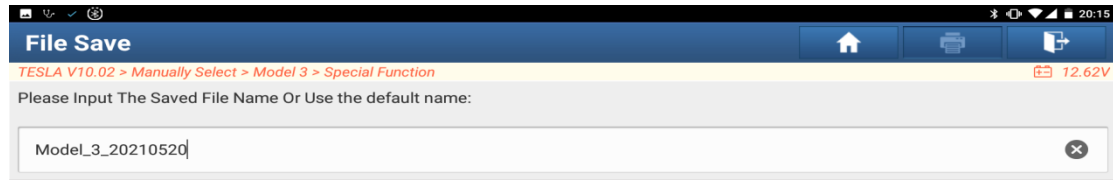
2. Unlock airbag ECU, click [Unlock EEPROM After Crash]. It will finish automatically.



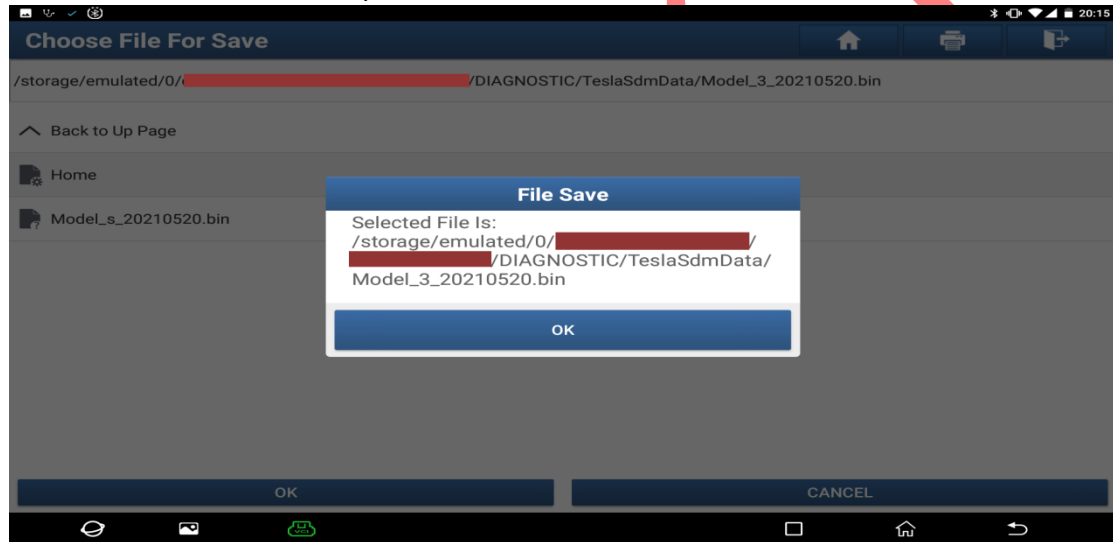
3. Read airbag ECU memory, select **【Read EEPROM】** menu, when reading is done, input backup file name, select backup file storage directory, data backup is done.



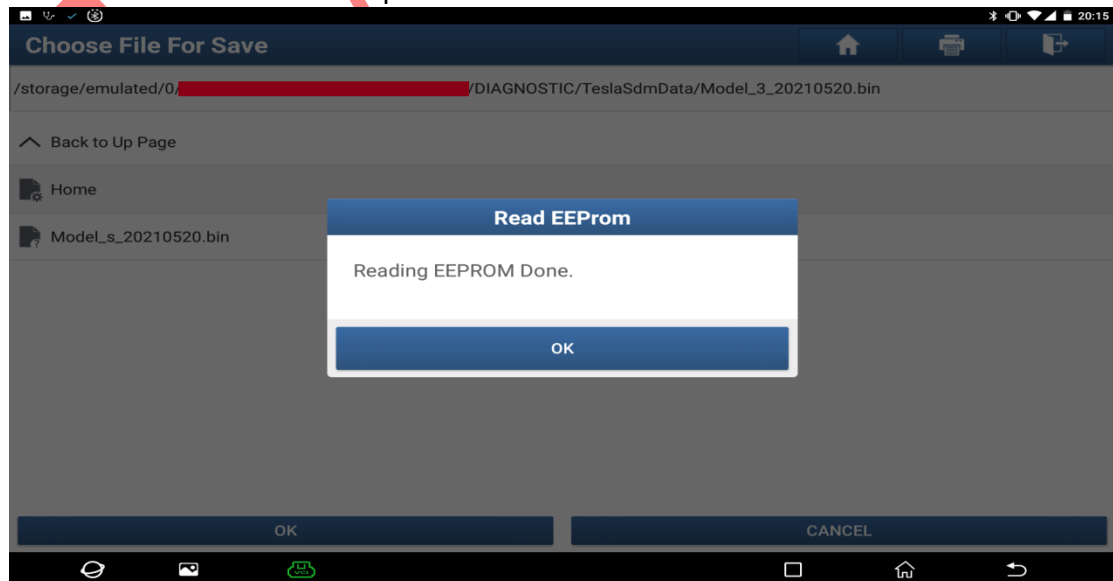
4. Input backup file name, for example "Model_3_20210520"



5. Click “OK” to backup data.



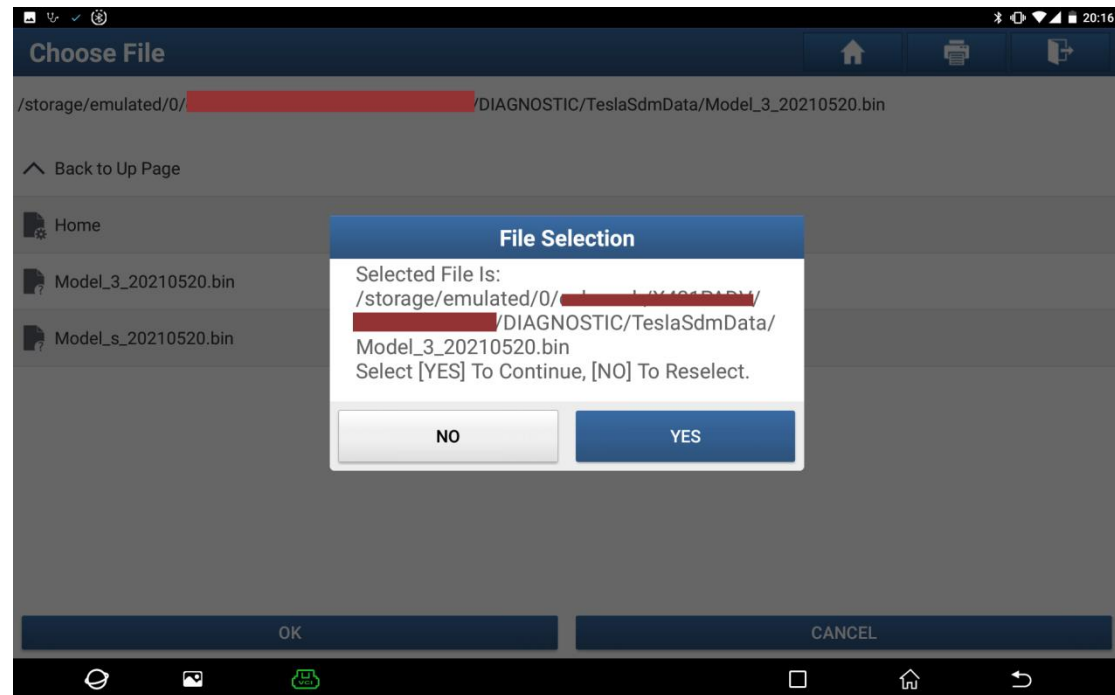
6. Read EEPROM and backup finished



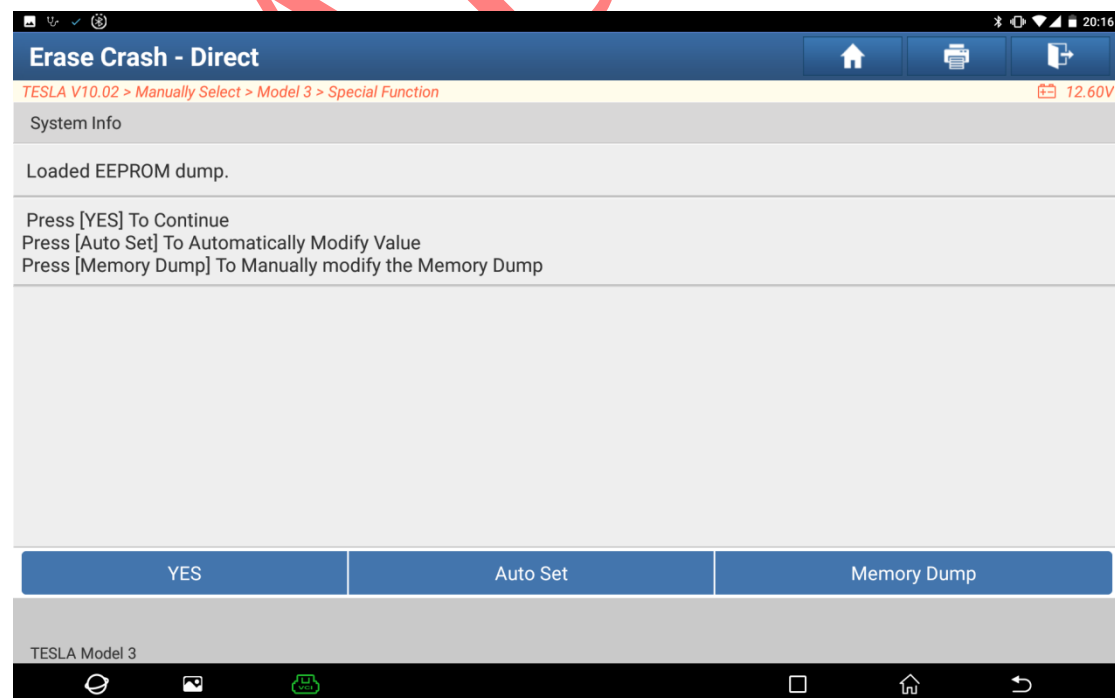
7. Erase crash data, go into [Erase Crash - Direct] menu, select [Read EEPROM] backup file. The software will automatically perform [Write EEPROM] to write backup data and verify if data written is correct.

7.1 Select backup file

Click "Model_3_20210520.bin" to select back file



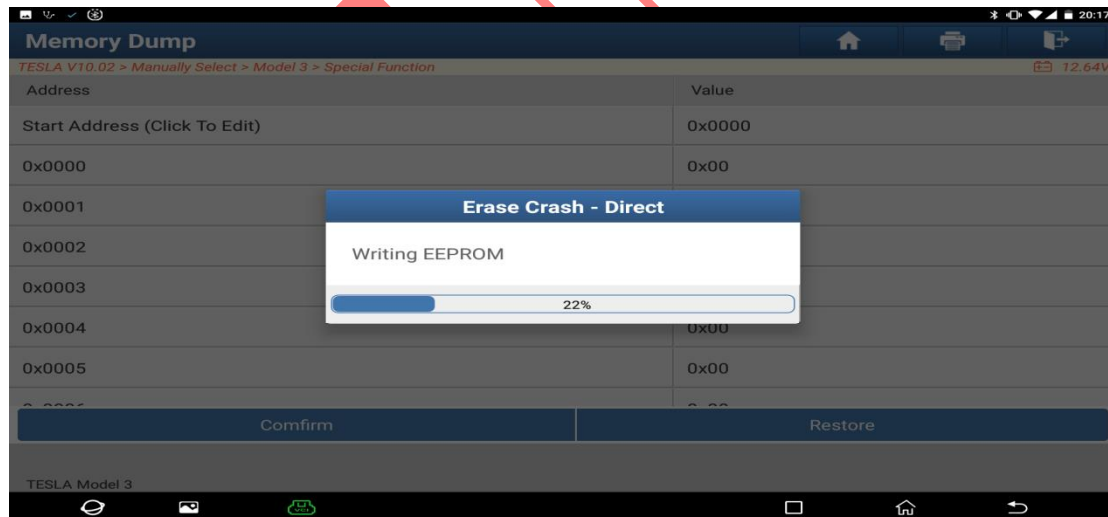
- 7.2 Edit backup data. Press [YES] to use default data. Press [Auto Set] to automatically modify value (recommended). Press [Memory Dump] to manually modify backup data.

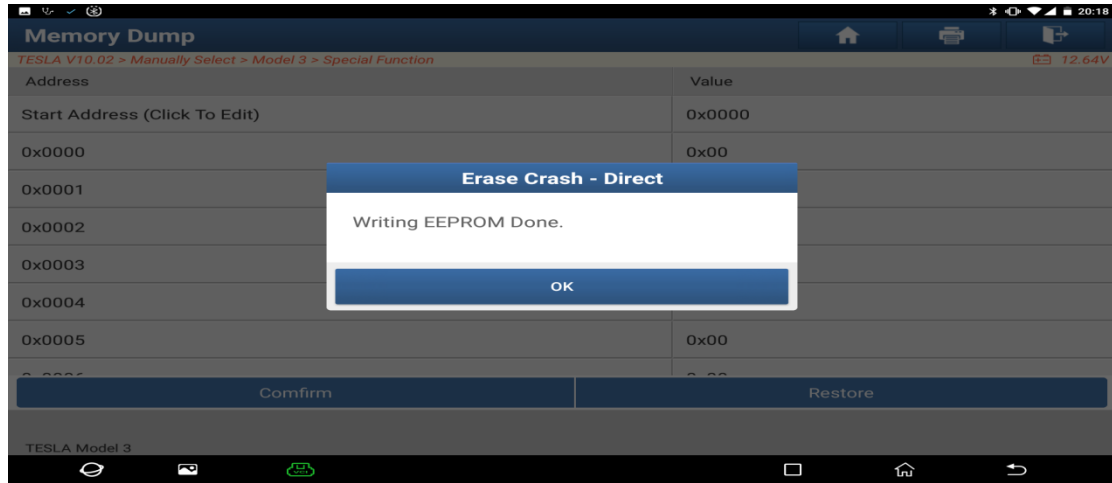


7.3 if you press [Auto Set], it will skip this procedure. Press [Memory Dump], you can manually modify backup data. Start address is where the system starts to read backup data and it can be modified manually. After entering start address, press [Confirm] to write modified data, click [Restore] to recover it to old value.

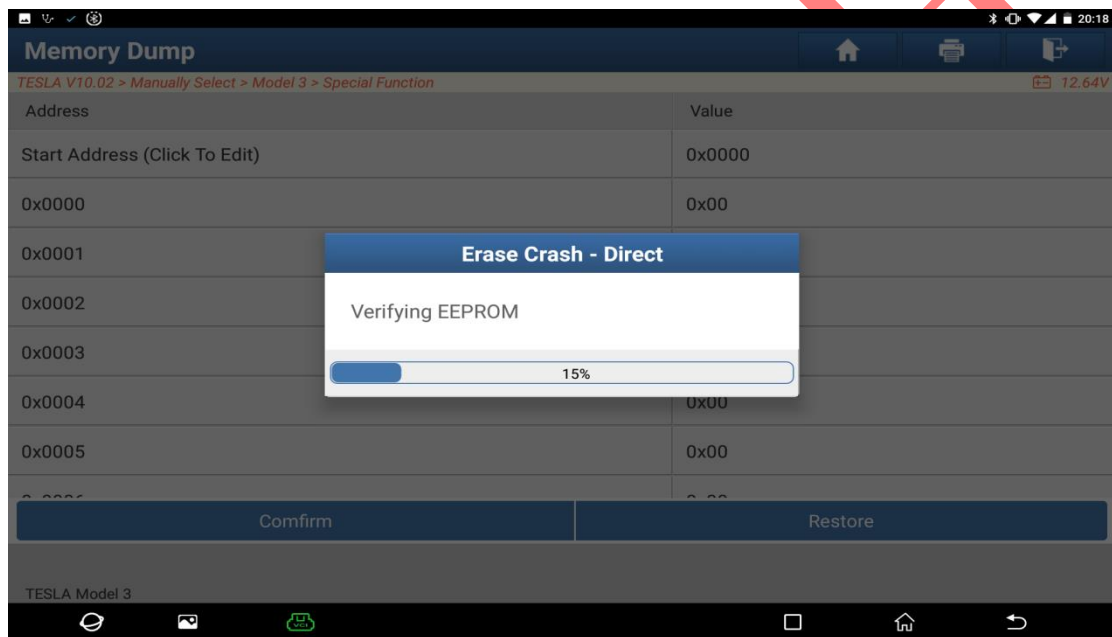


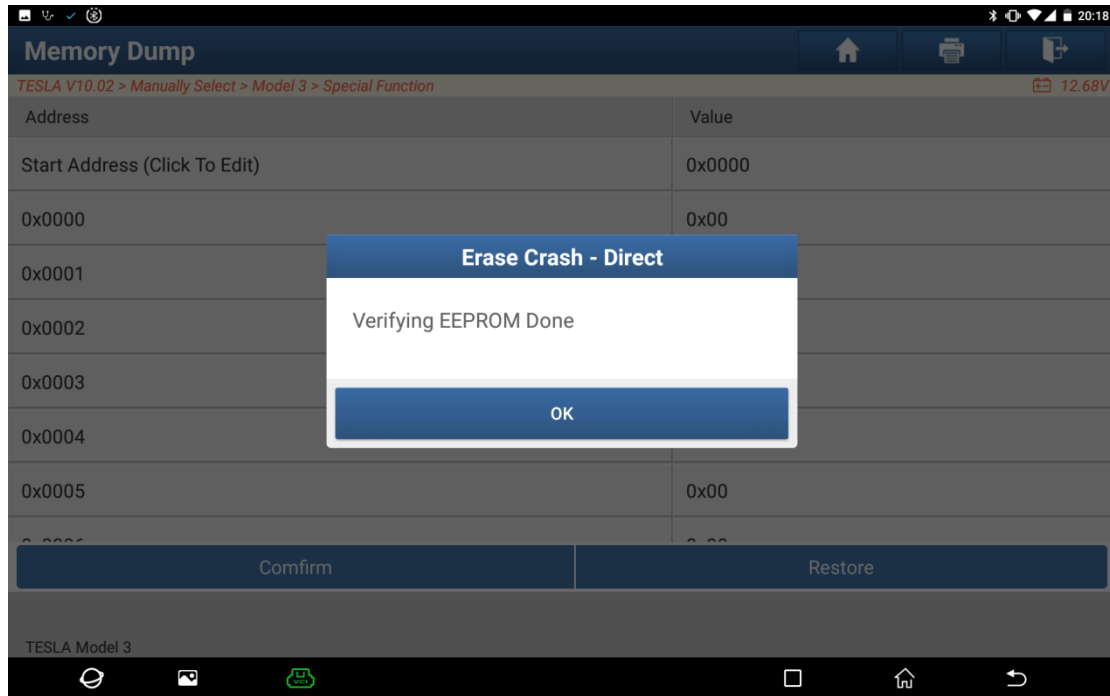
7.4 Write data, erase airbag crash data.





7.5 Verify written data

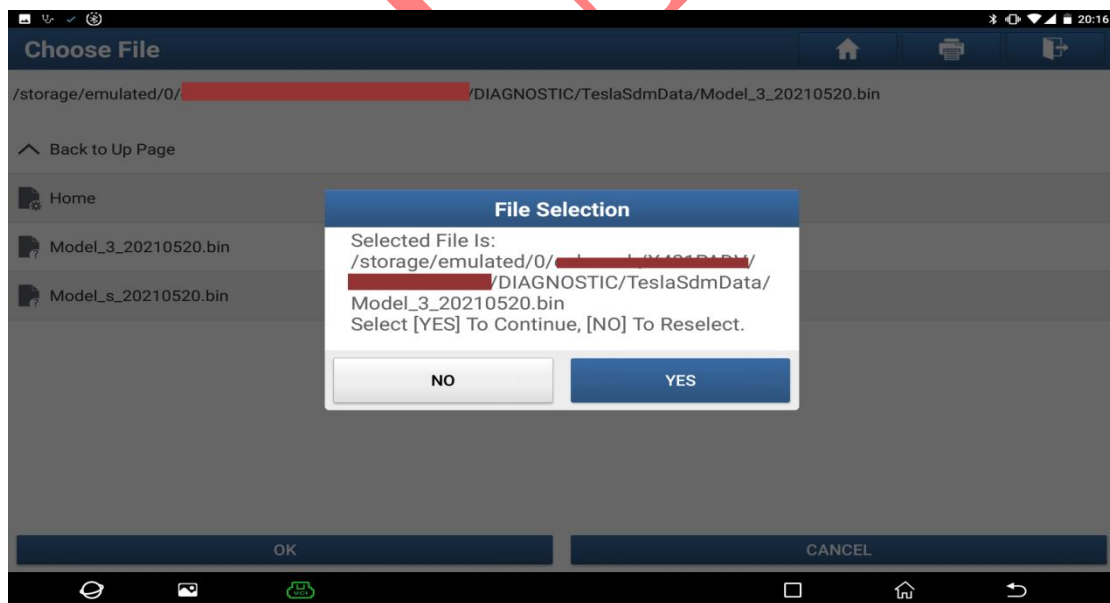




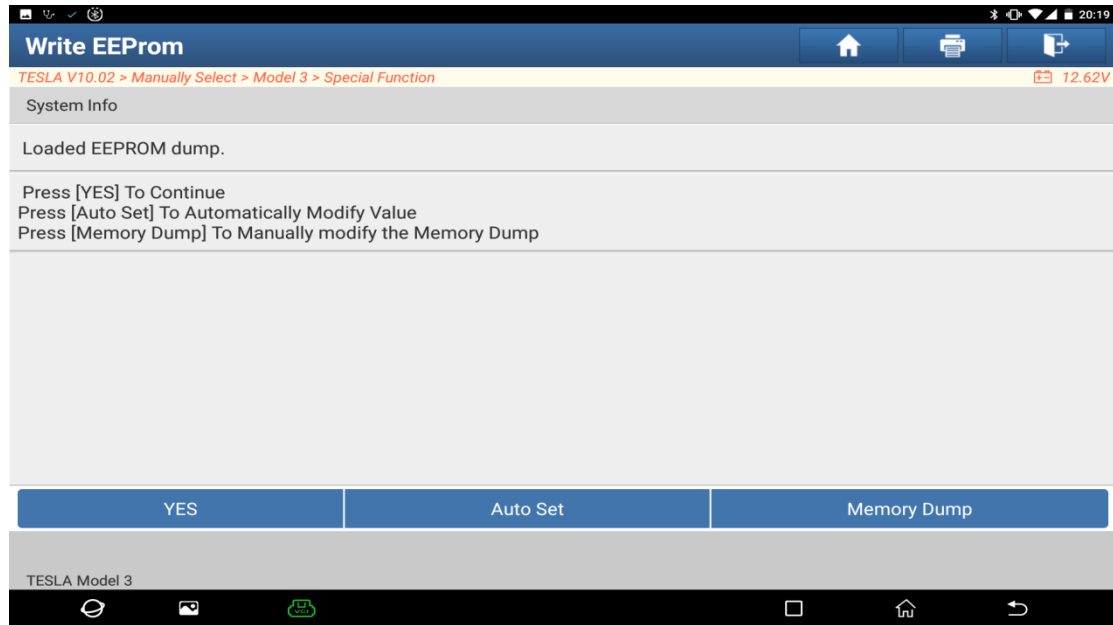
8. Write crash data, go into **【Write EEPROM】** menu, select backup file. The software will automatically write backup data and verify if data is correct. This procedure is similar to above mentioned procedure **【Erase Crash - Direct】**.

8.1 Select backup file

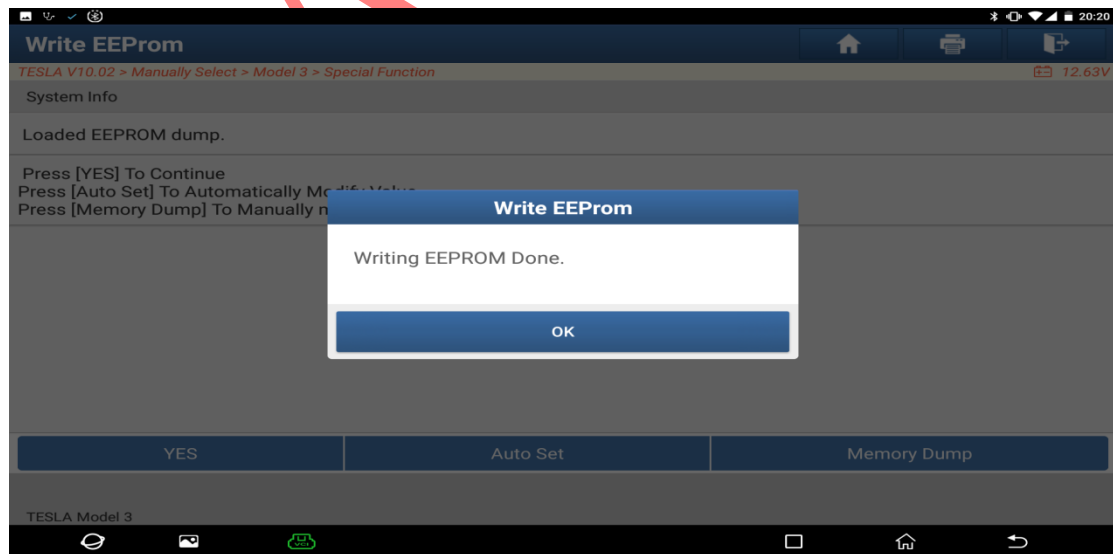
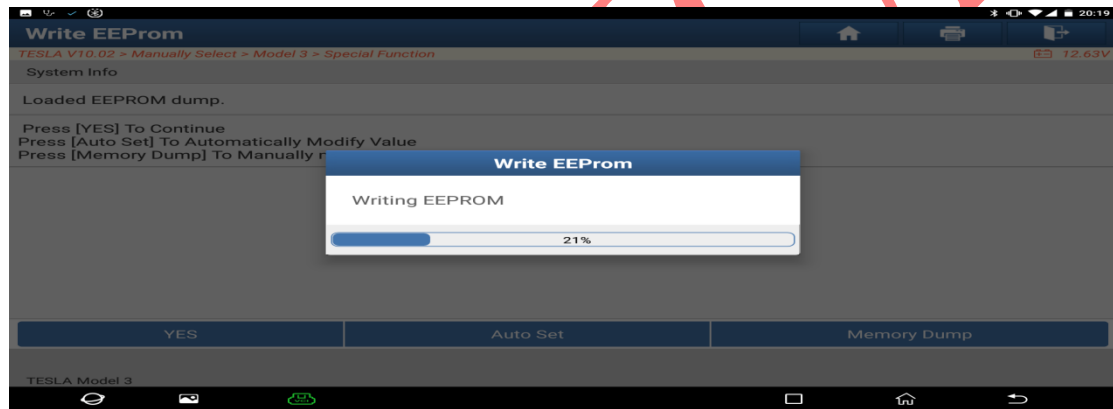
Click “Model_3_20210520.bin” to select back file



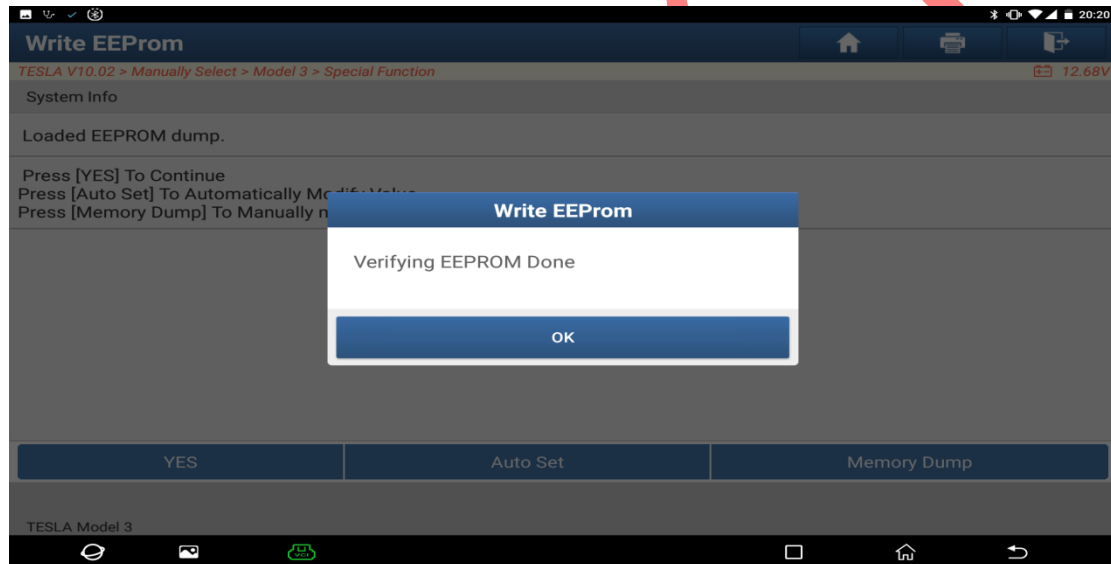
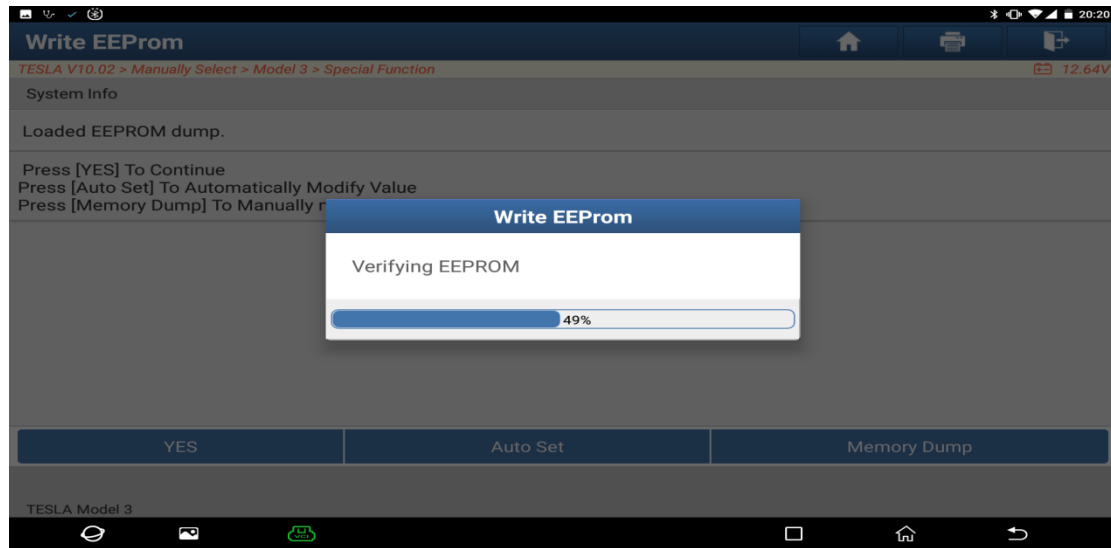
- 8.2 Edit backup data. Press “YES” to use default data. Press **【Auto Set】** to automatically modify value (recommended). Press **【Memory Dump】** to manually modify backup data.



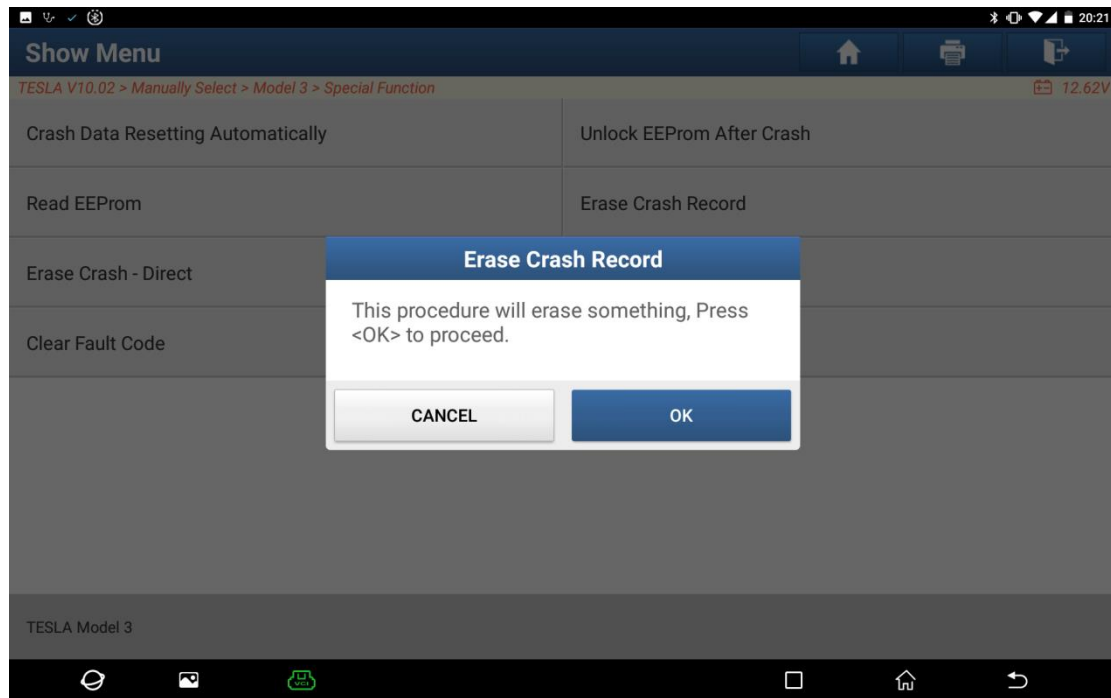
8.3 Write Data



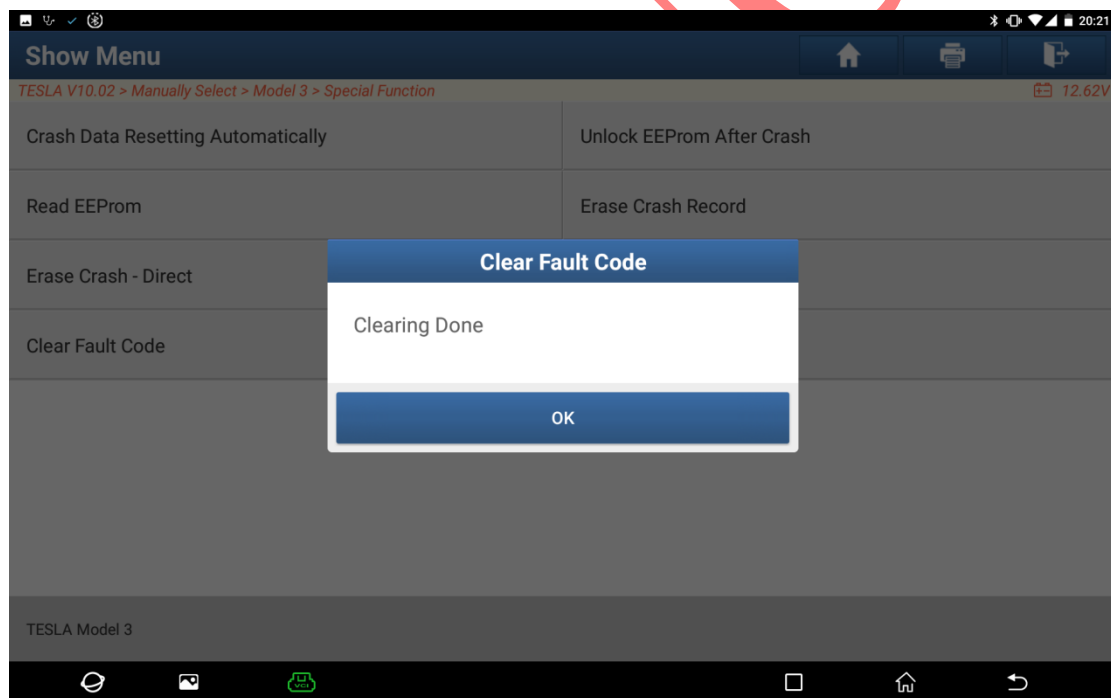
9. Verify written backup data



10. Erase crash record, go into **【Erase Crash Record】** menu, the software will automatically finish it.



11. Clear DTC (Diagnostic Trouble Code), put airbag ECU back. Erasing crash data is done.



12. If you find the above procedure is cumbersome, please click [Crash Data Resetting Automatically] menu, it will automatically perform all procedures.