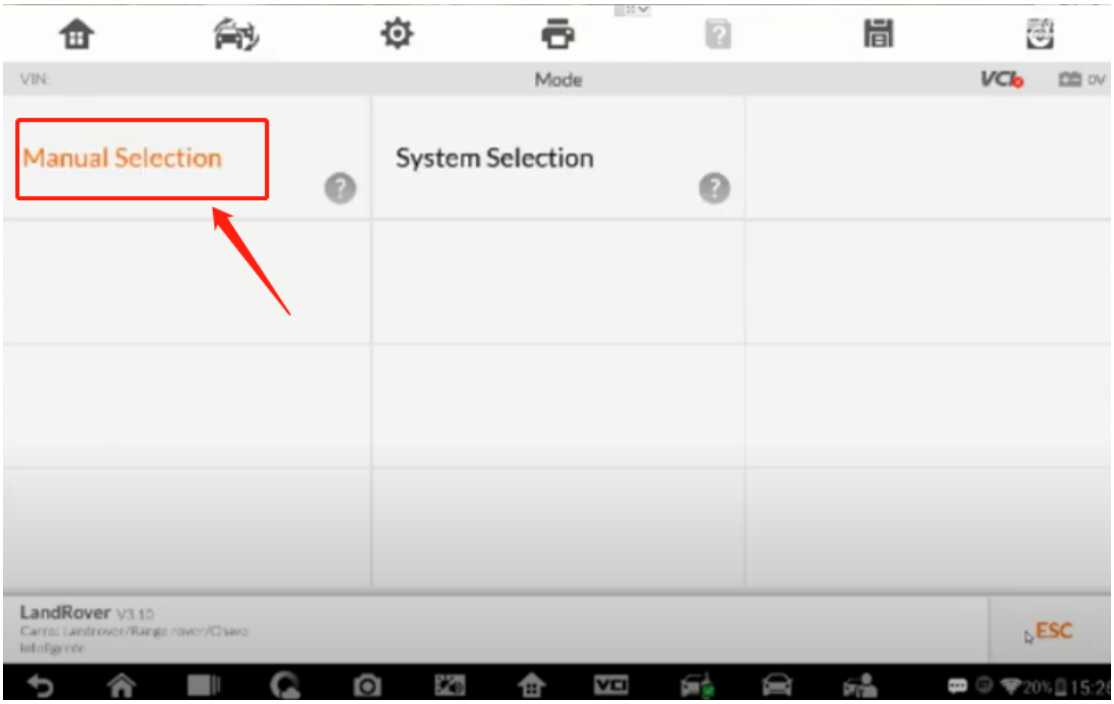
Range Rover 2018 all key lost with IM608 and XP400 and APA106 (dump mode)

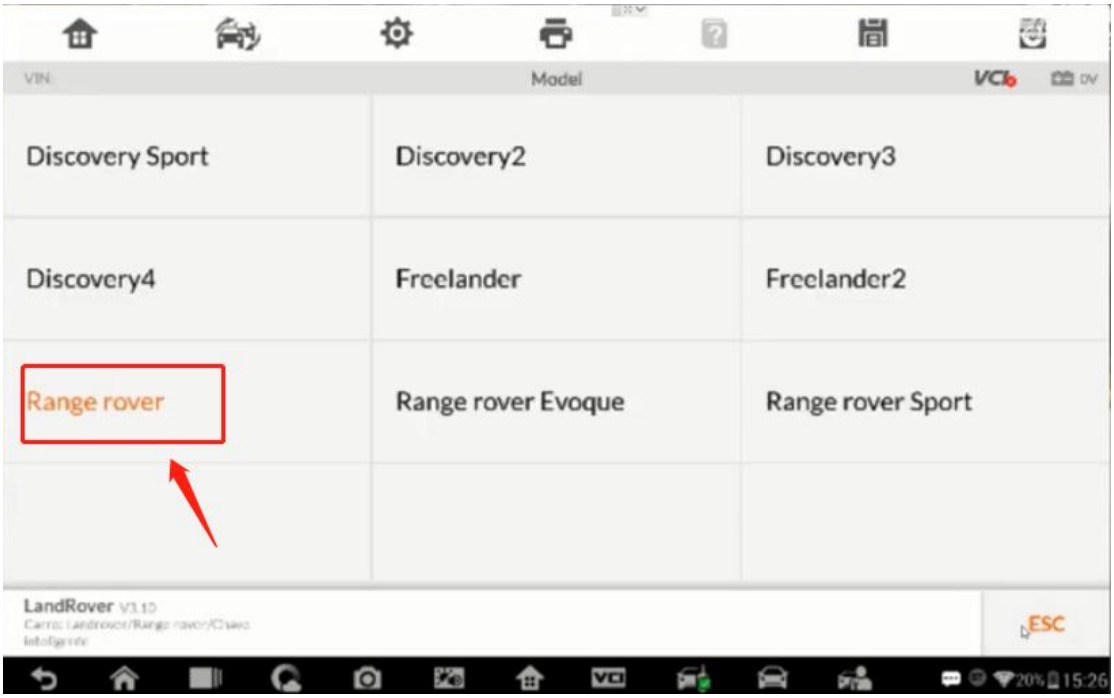
YouTube video link:

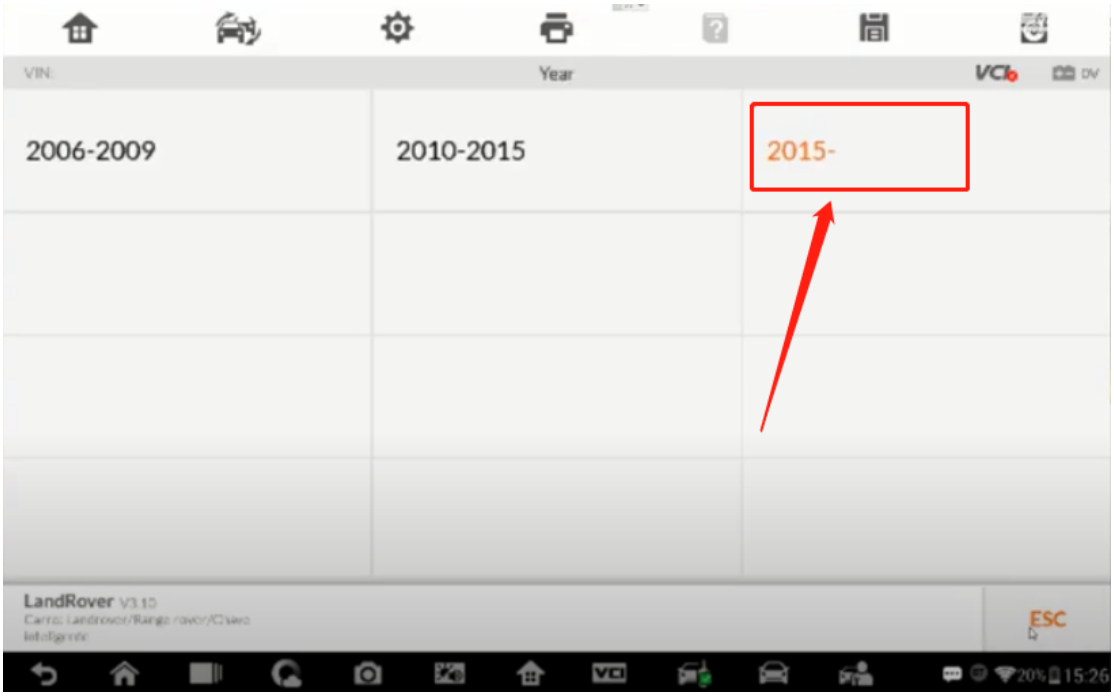
https://www.youtube.com/watch?v=B8XTzFXbnnA

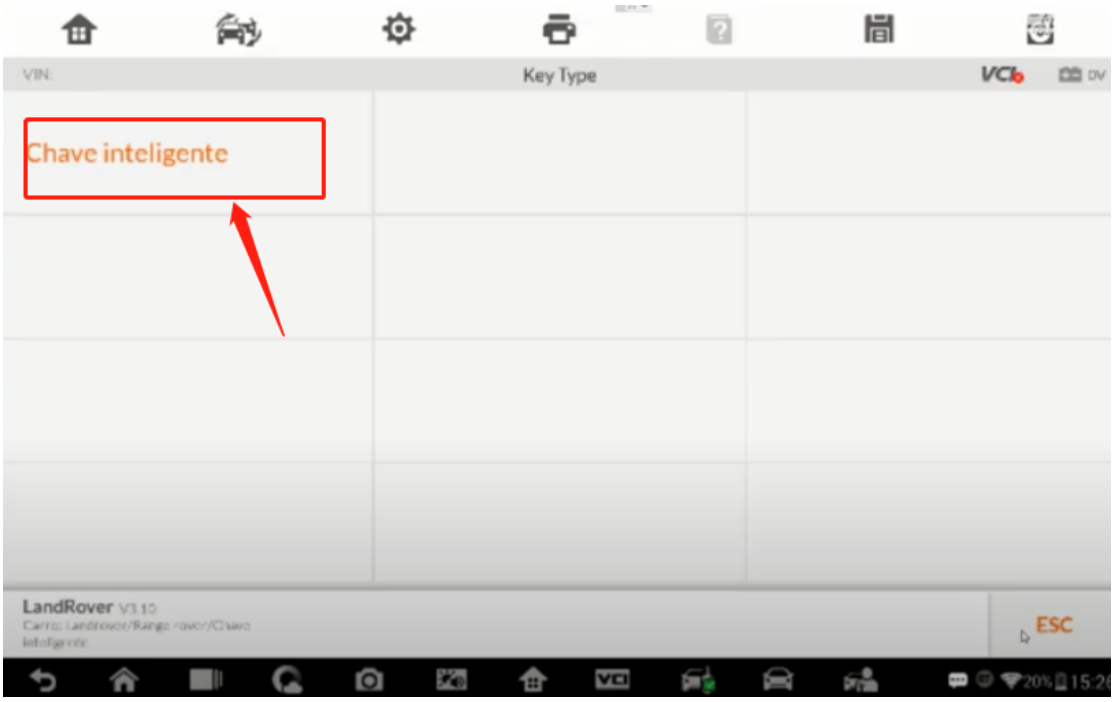
（Note： If you encounter any type of problem during the process, please upload the datalog on the top-right corner after failing to perform the functions. Please connect your device to the network while performing the following functions.）

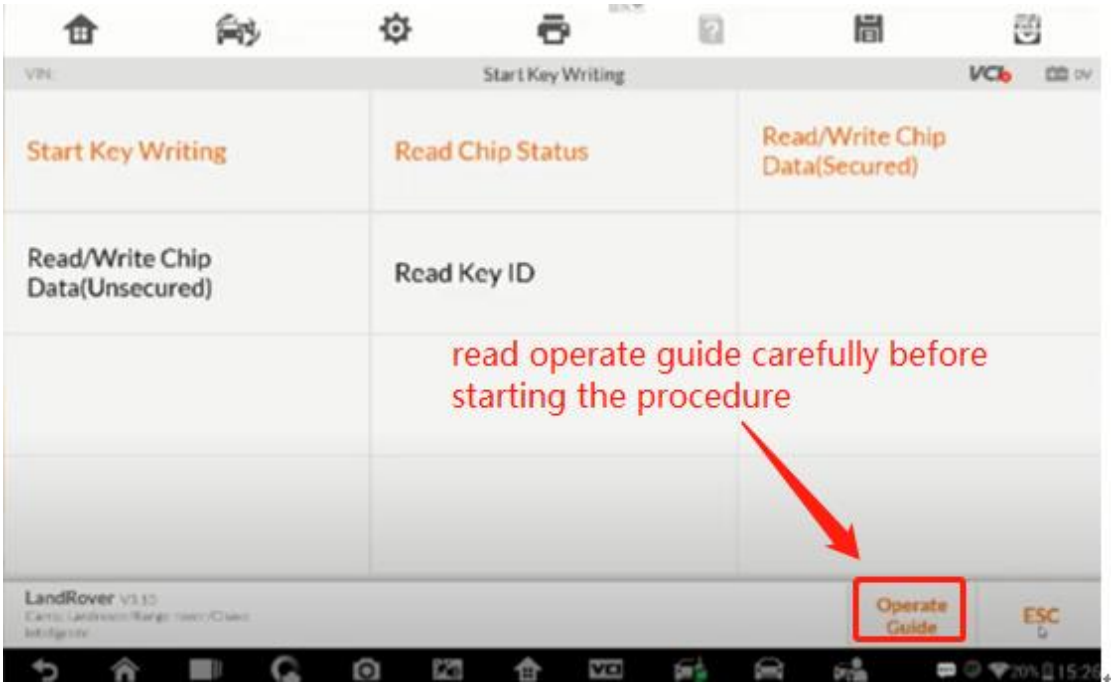
Specific add key(all key lost) procedure is as follows:


VIN:
Mode
Manual Selection
System Selection
LandRover V3.10
ESC

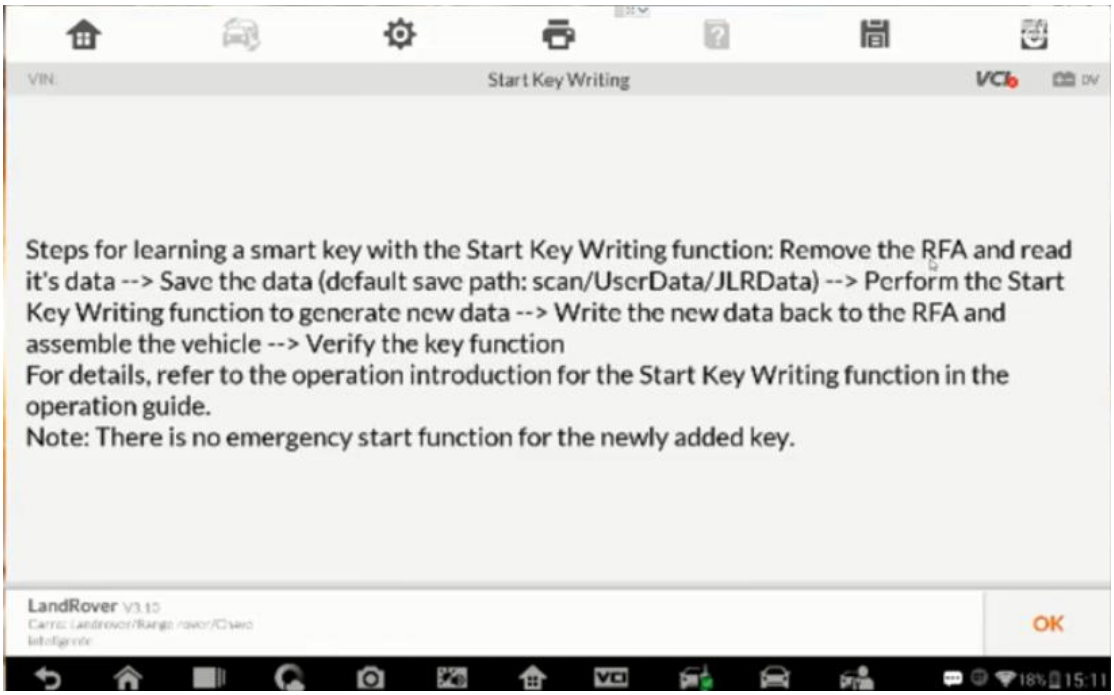

VIN:
Model
Discovery Sport
Discovery2
Discovery3
Discovery4
Freelander
Freelander2
Range rover
Range rover Evoque
Range rover Sport
LandRover V3.10
ESC


VIN:
Year
2006-2009
2010-2015
2015-
LandRover V3.10
ESC


VIN:
Key Type
Chave inteligente
LandRover V3.10
ESC

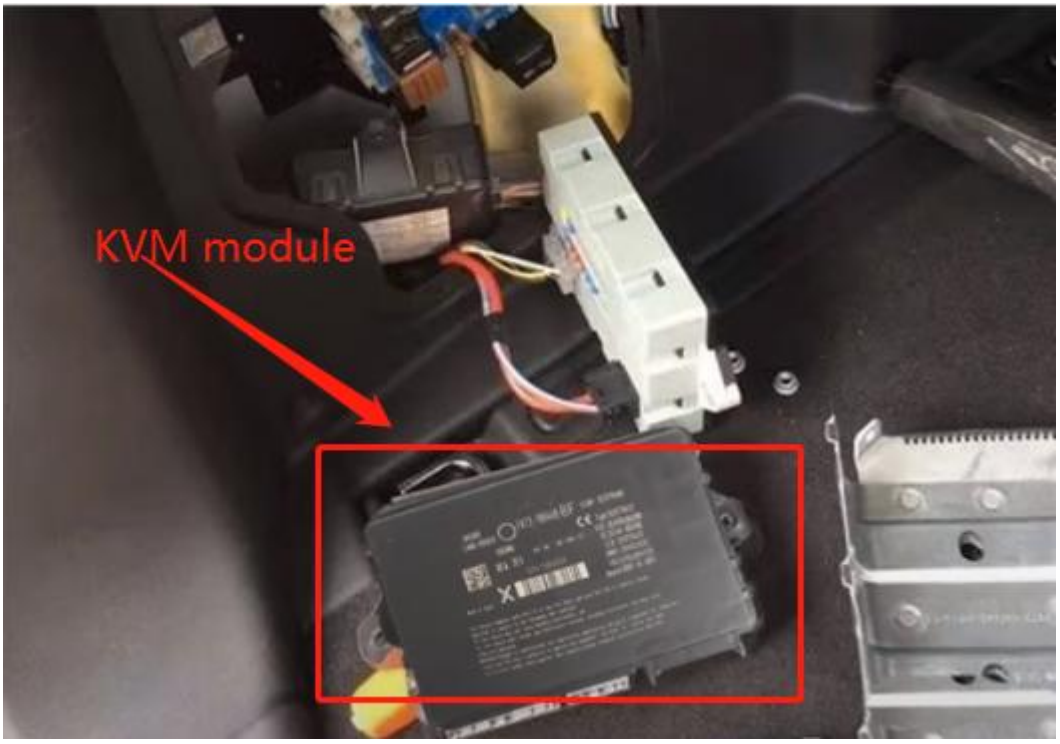


The procedure is as follows:



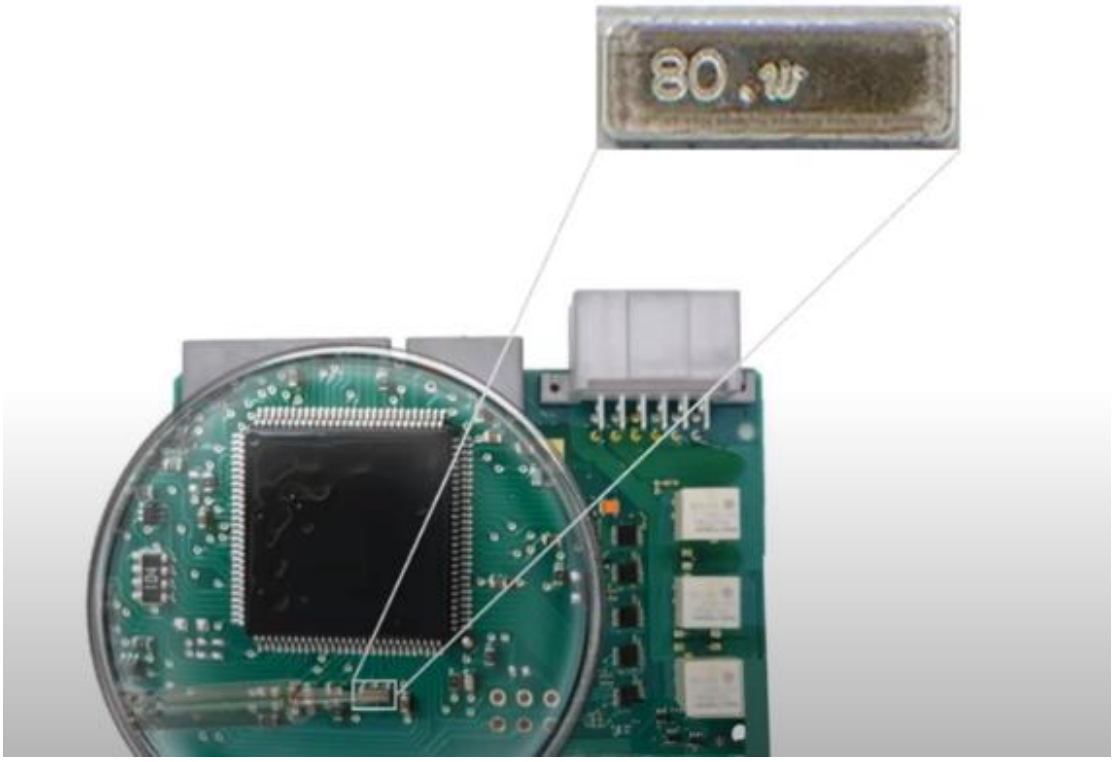
RFA(also called KVM) module located:

Remove the module:

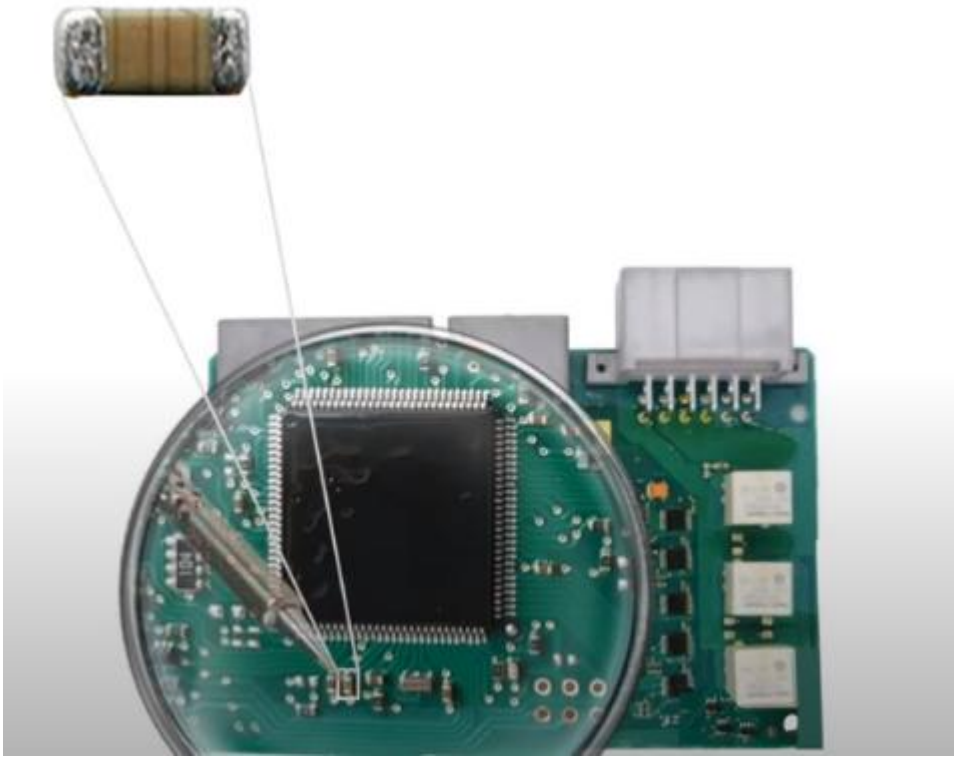


And remove the case

De-solder the crystal:

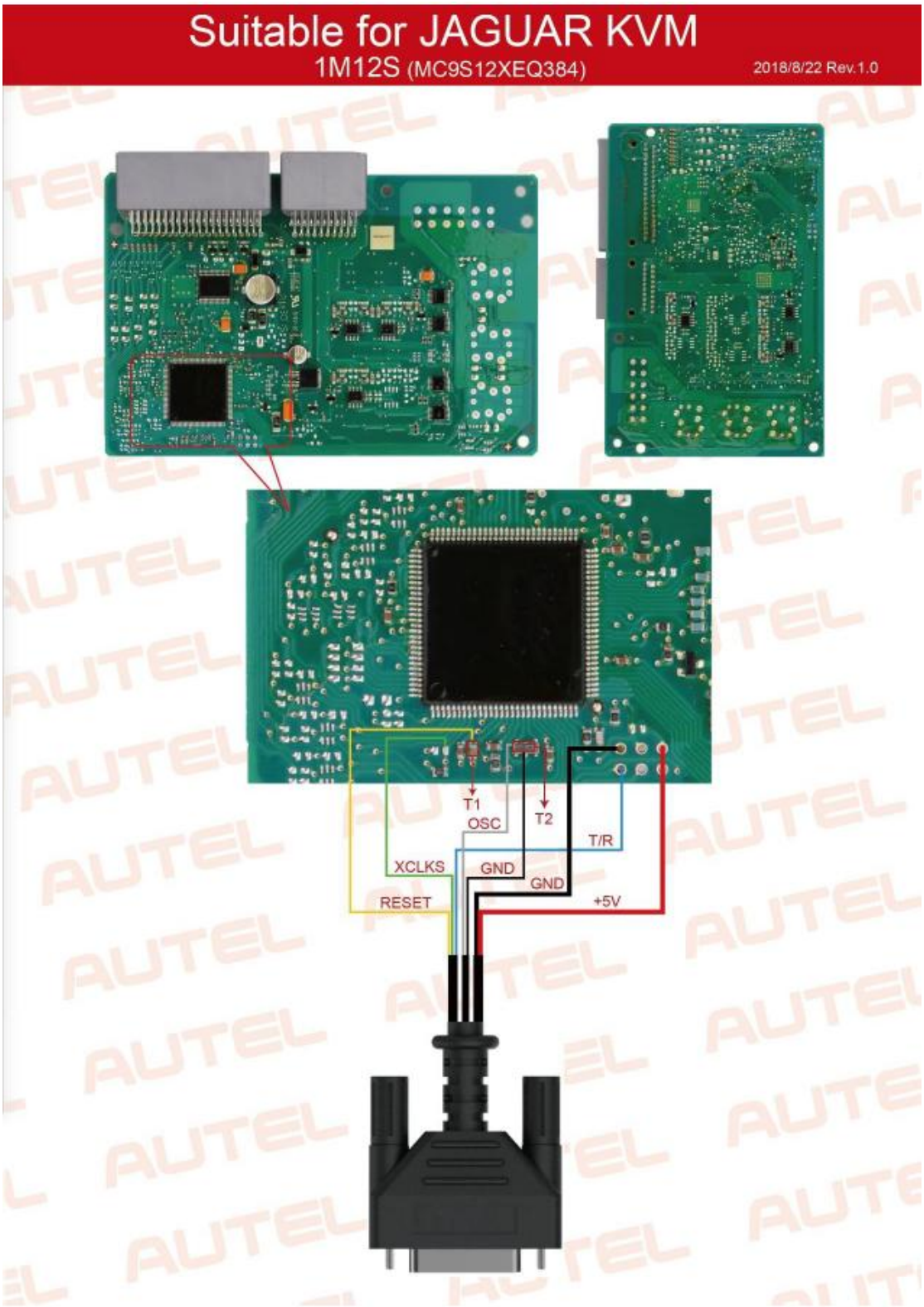


De-solder the capacitor:

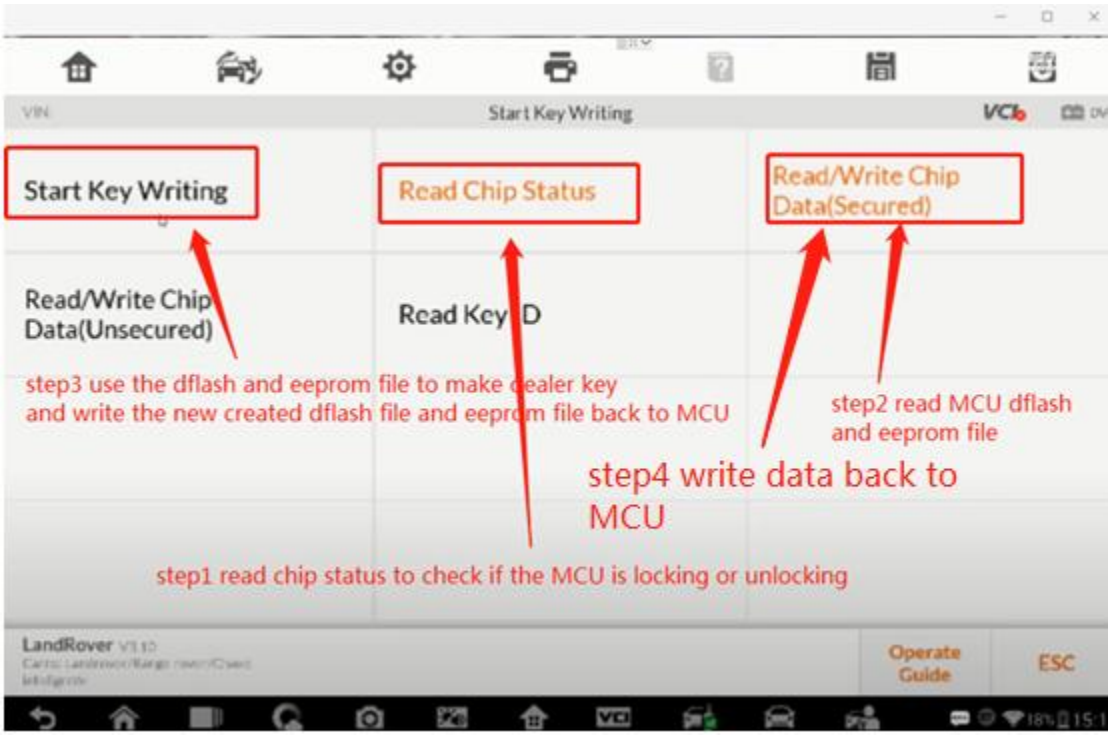


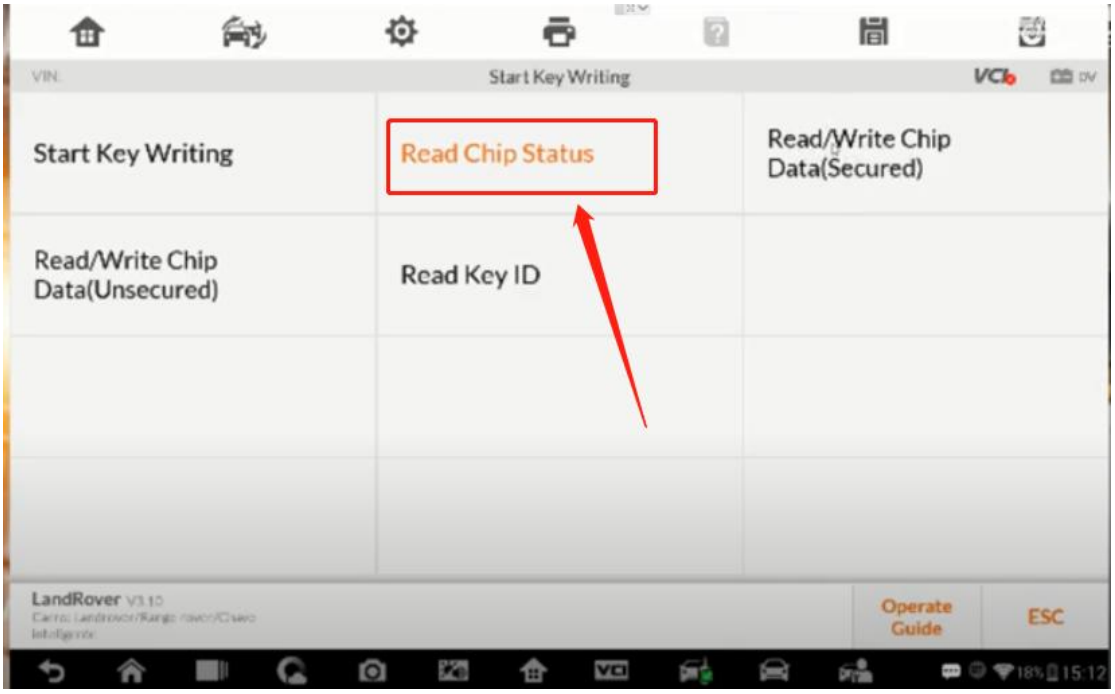
Solder the lines

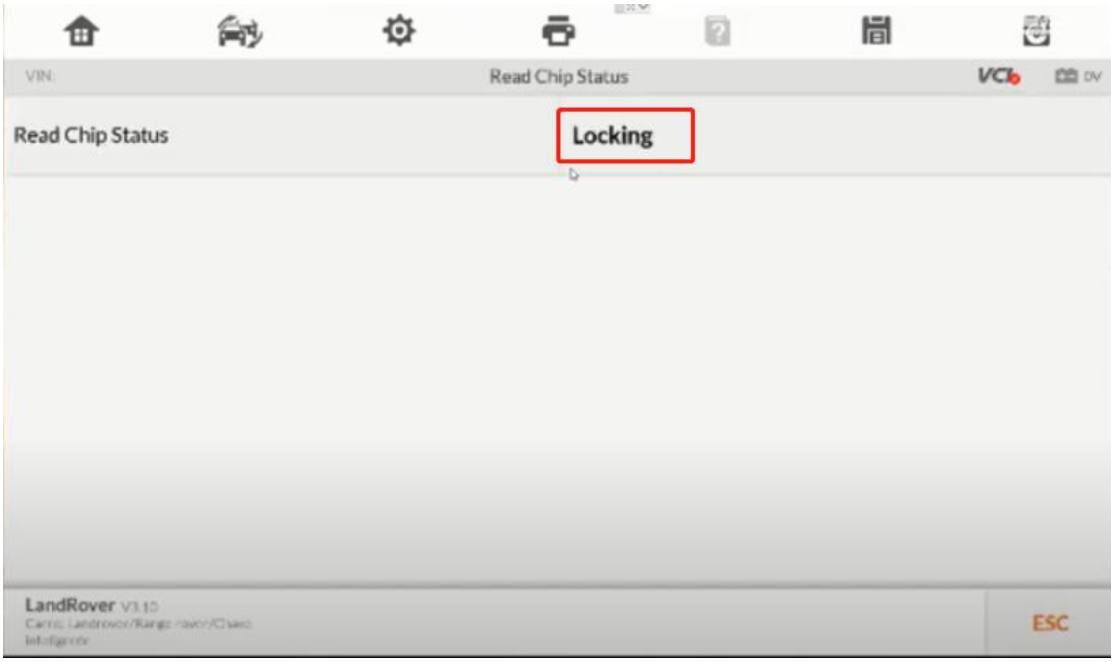
T1 and T2 are the components of capacitor and crystal.

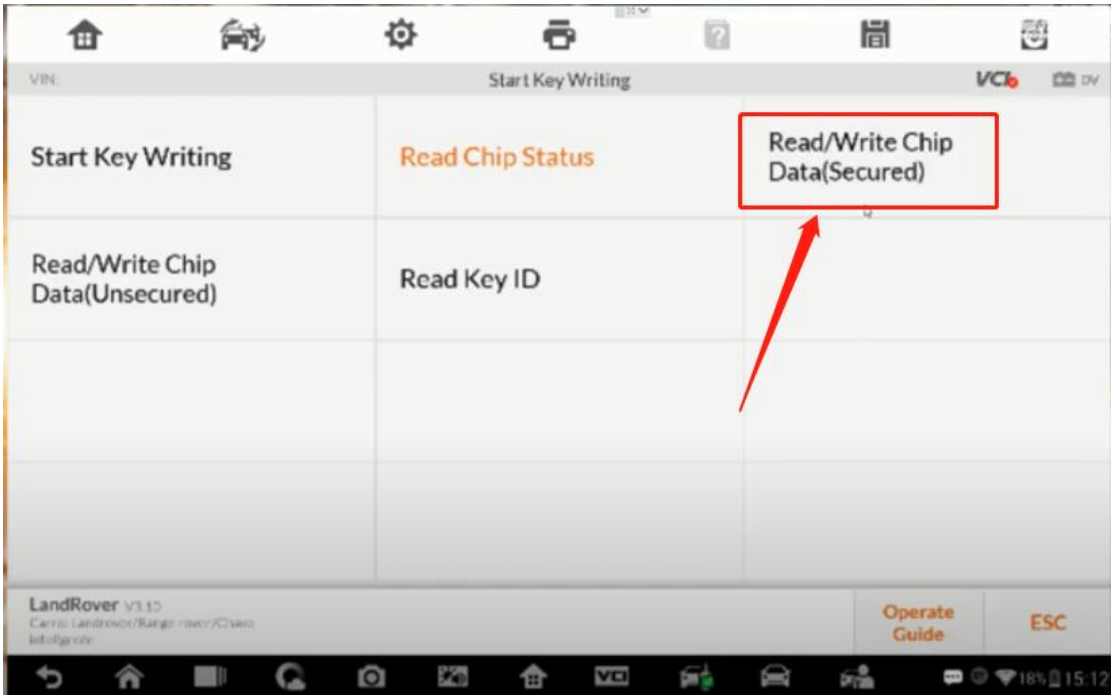


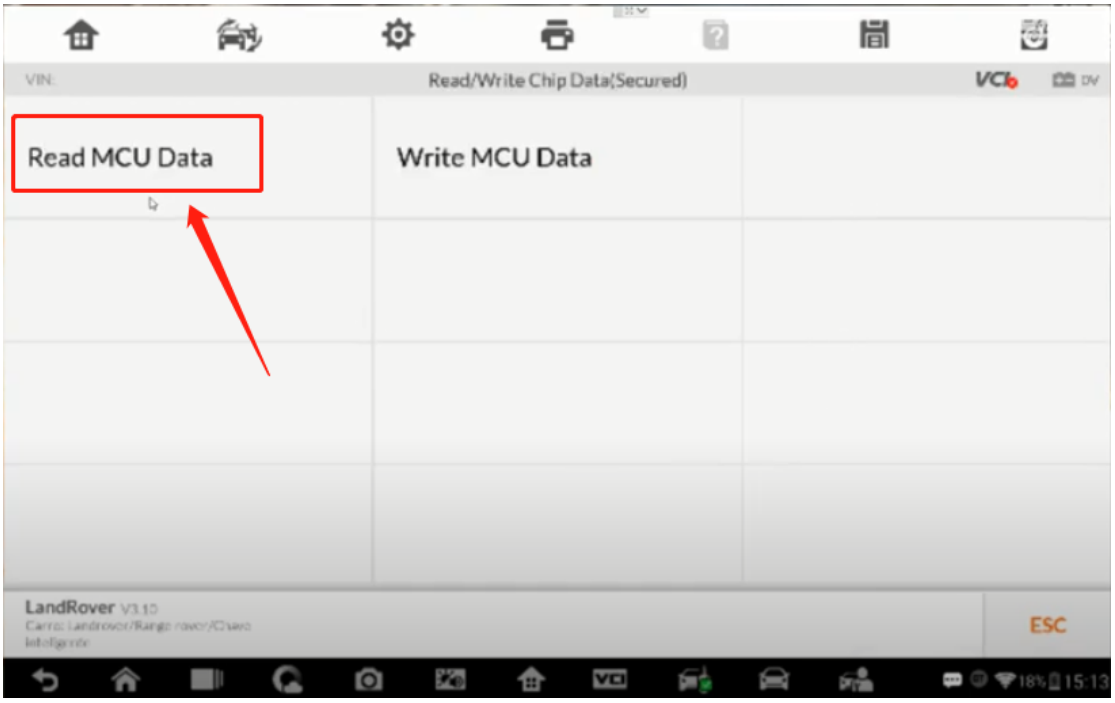
After you have connected the MCU to the programmer XP400 with APA106 cable, click on the go to "Read chip status"→ Read/Write chip data(secure)(read chip from MCU)→ Start key writing→ Read/Write chip data(secure)(write new data back to MCU)


Start Key Writing
Start Key Writing
Read Chip Status
Read/Write Chip Data(Secured)
Read/Write Chip Data(Unsecured)
Read Key ID
step3 use the dflash and eeprom file to make dealer key and write the new created dflash file and eeprom file back to MCU
step2 read MCU dflash and eeprom file
step4 write data back to MCU
step1 read chip status to check if the MCU is locking or unlocking
LandRover
Operate Guide
ESC


Start Key Writing
Start Key Writing
Read Chip Status
Read/Write Chip Data(Secured)
Read/Write Chip Data(Unsecured)
Read Key ID
LandRover
Operate Guide
ESC


VIN:
Read Chip Status
Read Chip Status
Locking
LandRover V3.10
ESC

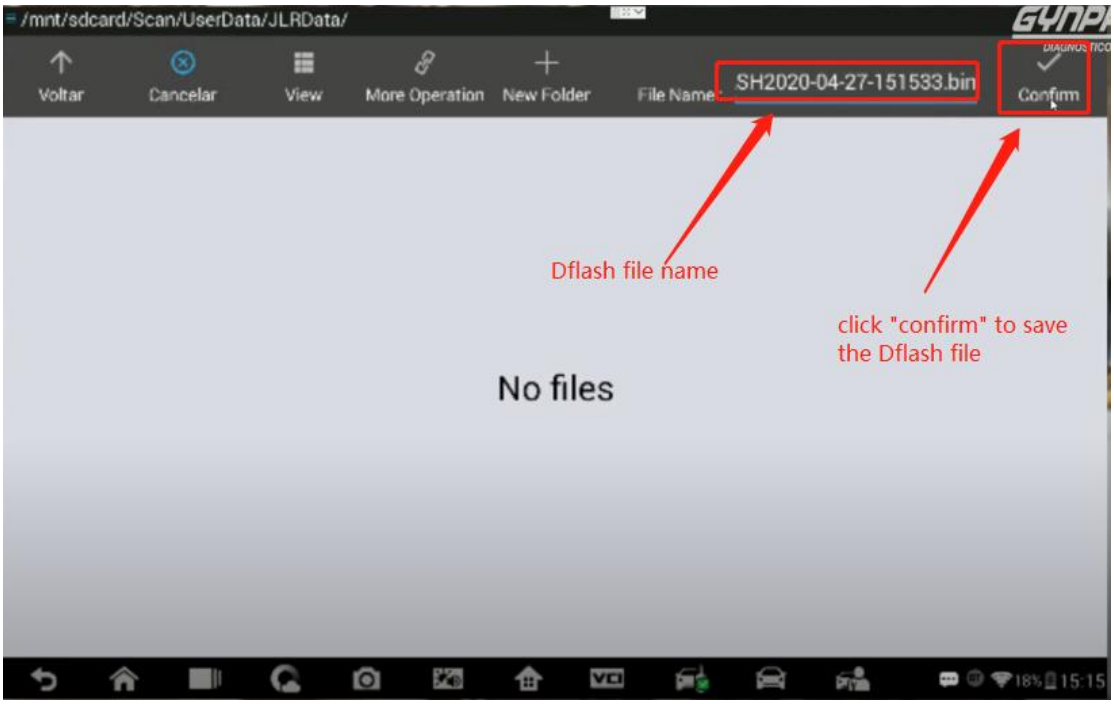

VIN:
Start Key Writing
Start Key Writing
Read Chip Status
Read/Write Chip Data(Secured)
Read/Write Chip Data(Unsecured)
Read Key ID
LandRover V3.10
Operate Guide
ESC

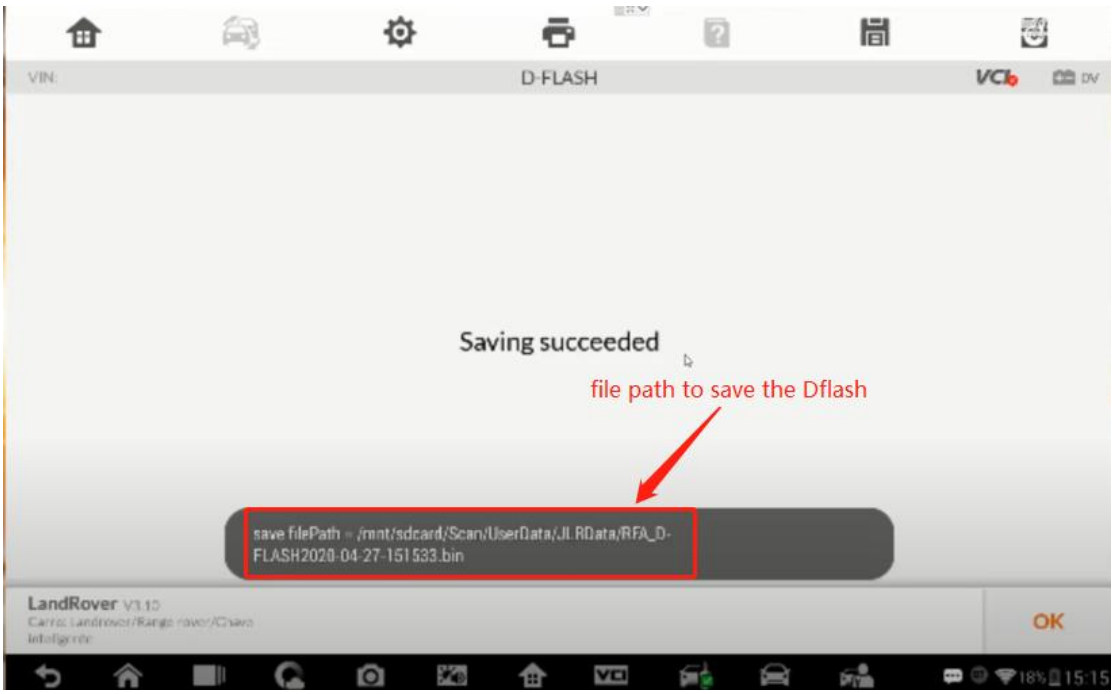

VIN:
Read/Write Chip Data(Secured)
Read MCU Data
Write MCU Data
LandRover V3.10
ESC


VIN:
Read MCU Data
Note:
This function requires connection to the programmer XP400. Please following the Operation guide to connect the chip correctly.
LandRover V3.10
OK


VIN:
Read MCU Data
D-FLASH
EEPROM
LandRover V3.10
ESC

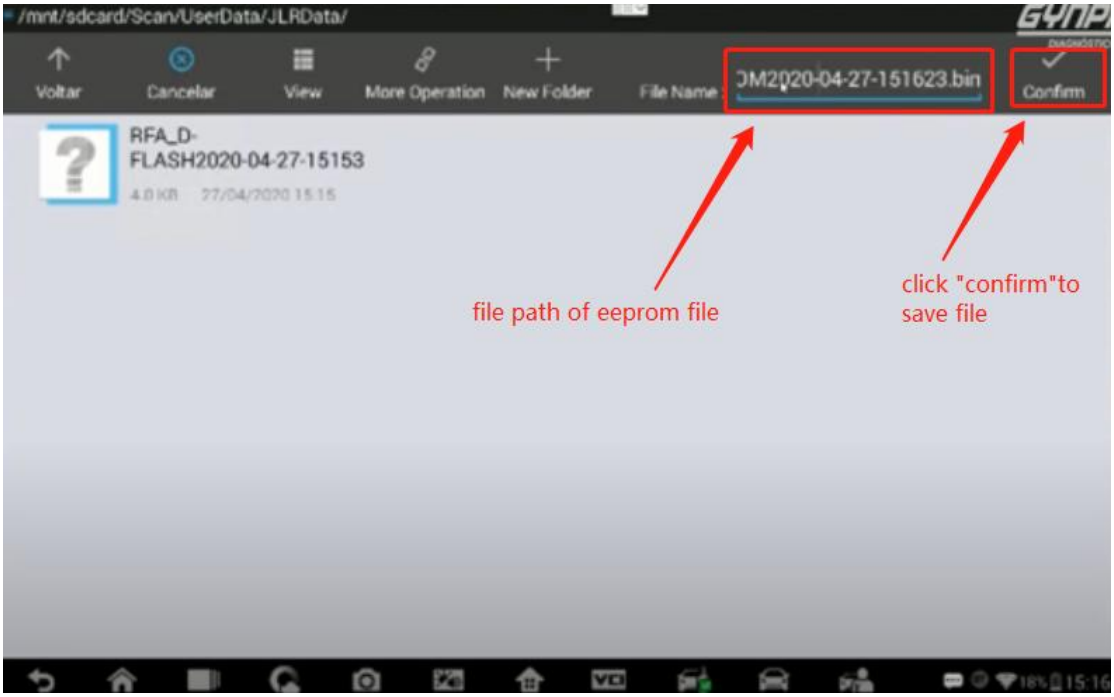

VIN:
EEPROM
Read the data successfully,click [OK] to save the data.
LandRover V3.10
OK


/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
New Folder
File Name
SH2020-04-27-151533.bin
Confirm
Dflash file name
click "confirm" to save the Dflash file
No files

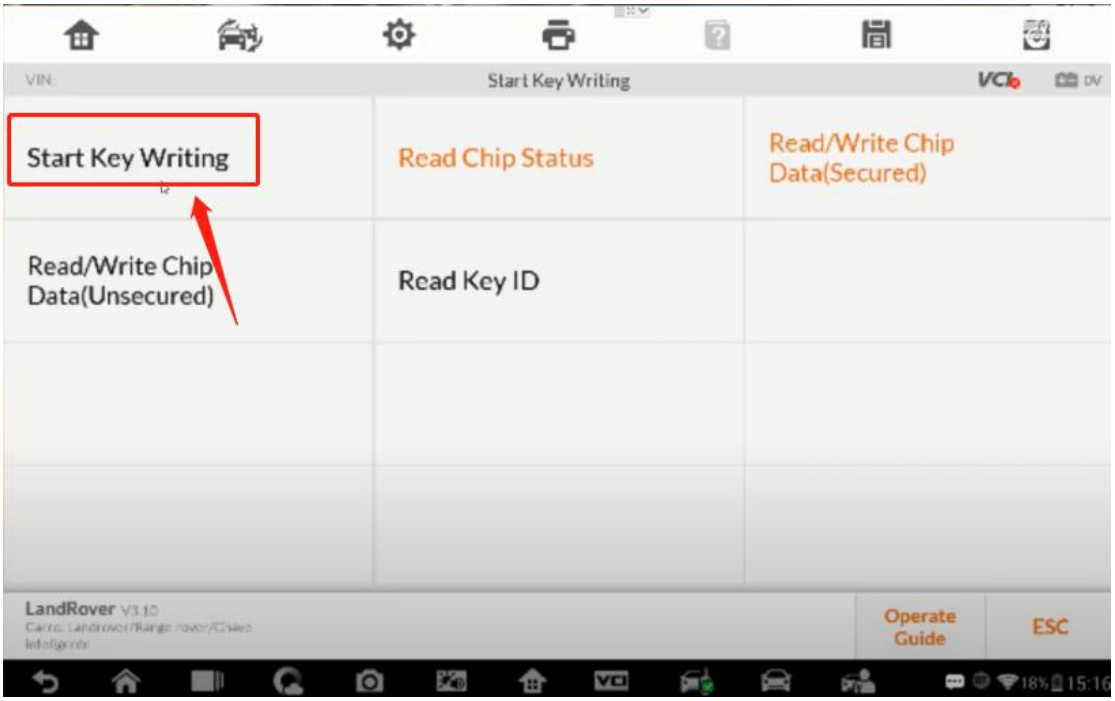

VIN:
D-FLASH
Saving succeeded
file path to save the Dflash
save filePath = /mnt/sdcard/Scan/UserData/JLRData/RFA_D-FLASH2020-04-27-151533.bin
LandRover
OK

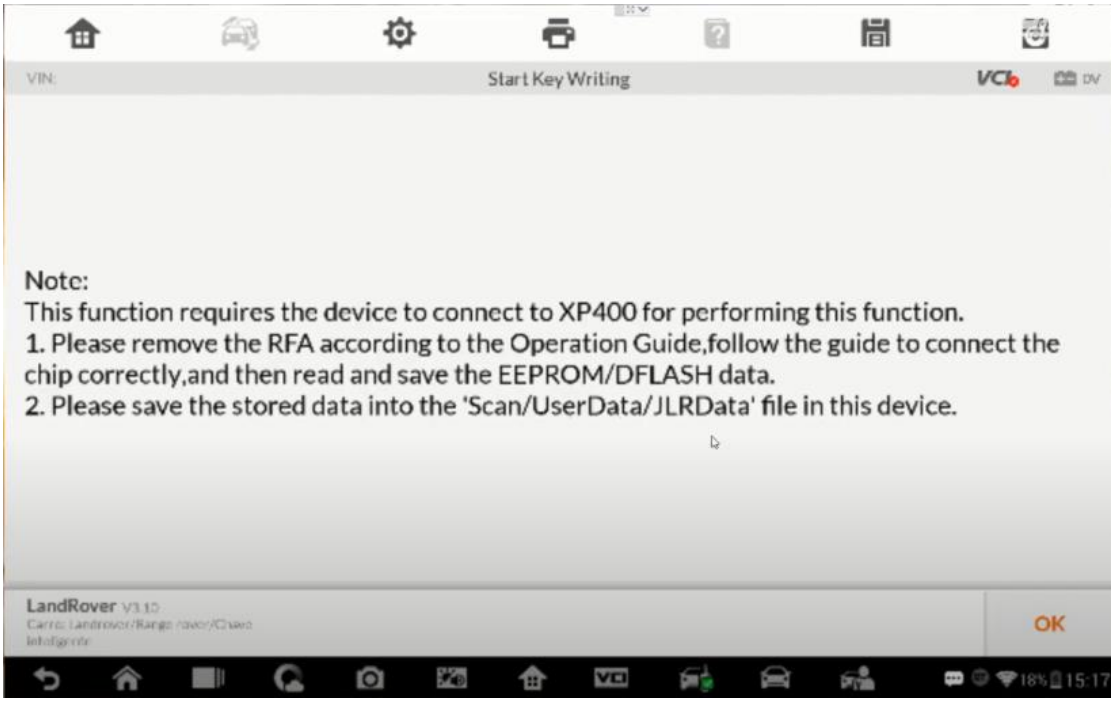

VIN:
Read MCU Data
D-FLASH
EEPROM
LandRover V3.10
ESC


VIN:
EEPROM
Read the data successfully,click [OK] to save the data.
LandRover V3.10
OK



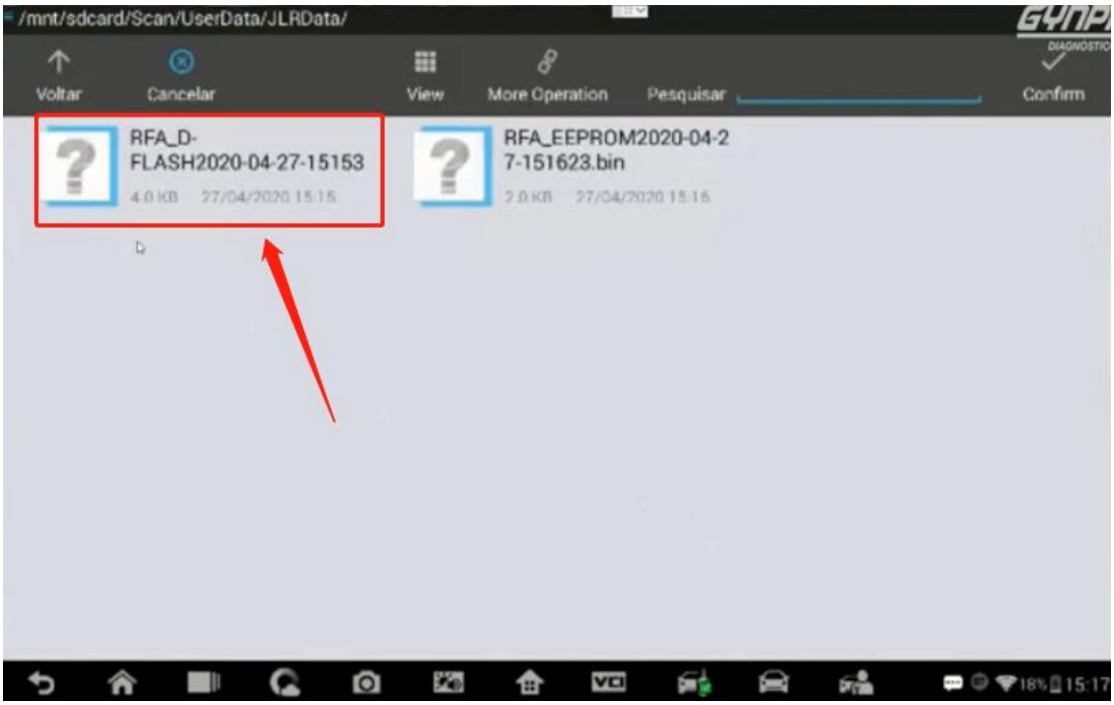
Then continue the last step to “start key writing”

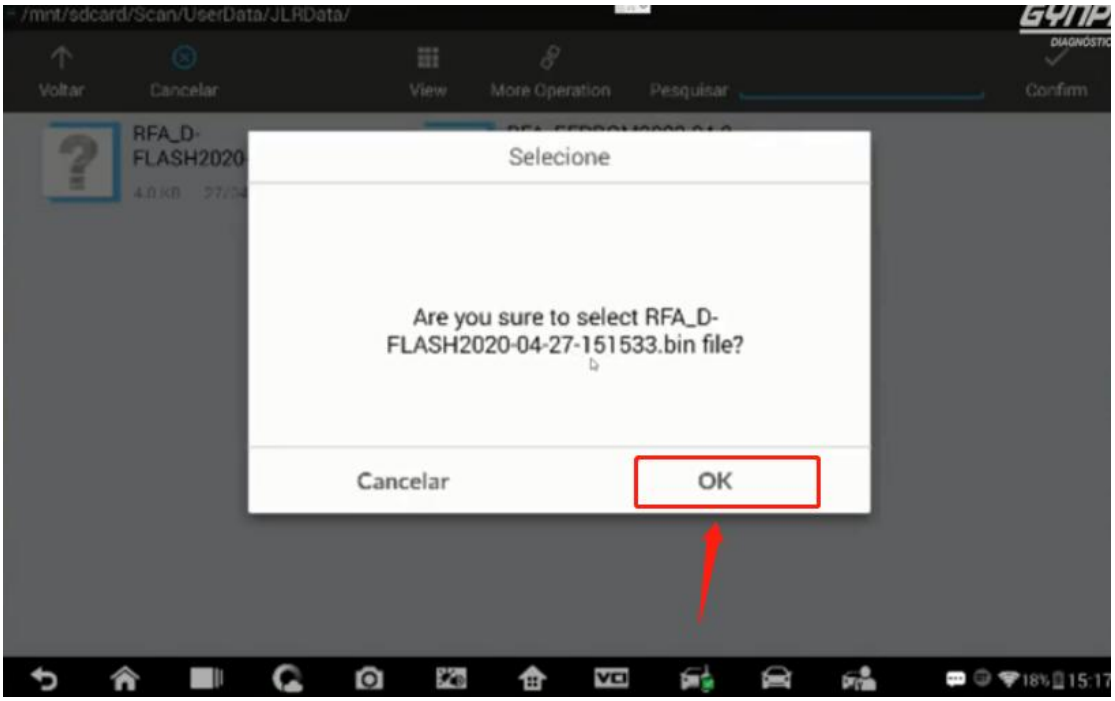


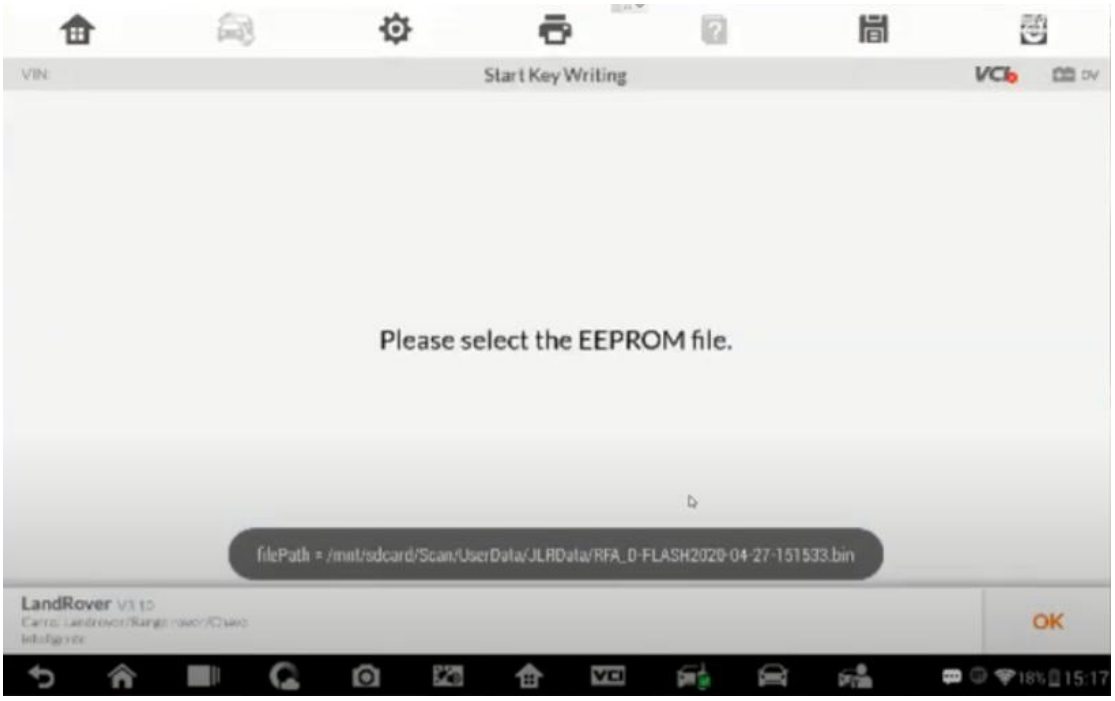


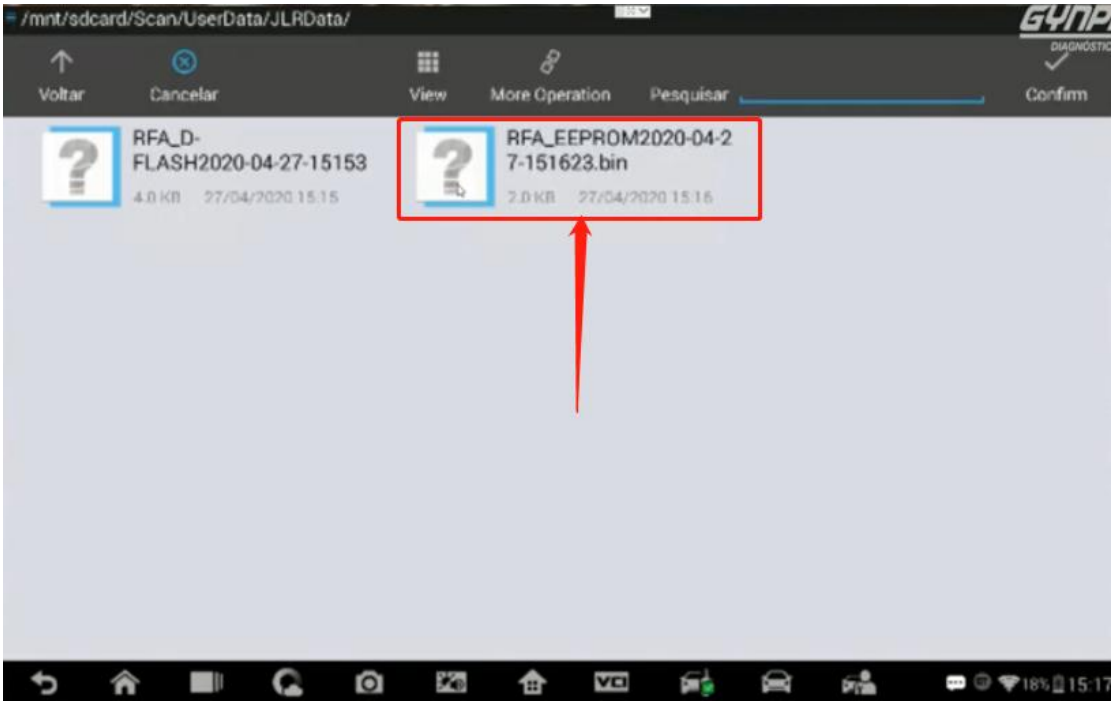
Select the Dflash and EEPROM file that you have saved, Then choose a blank key position ID to make the dealer key.

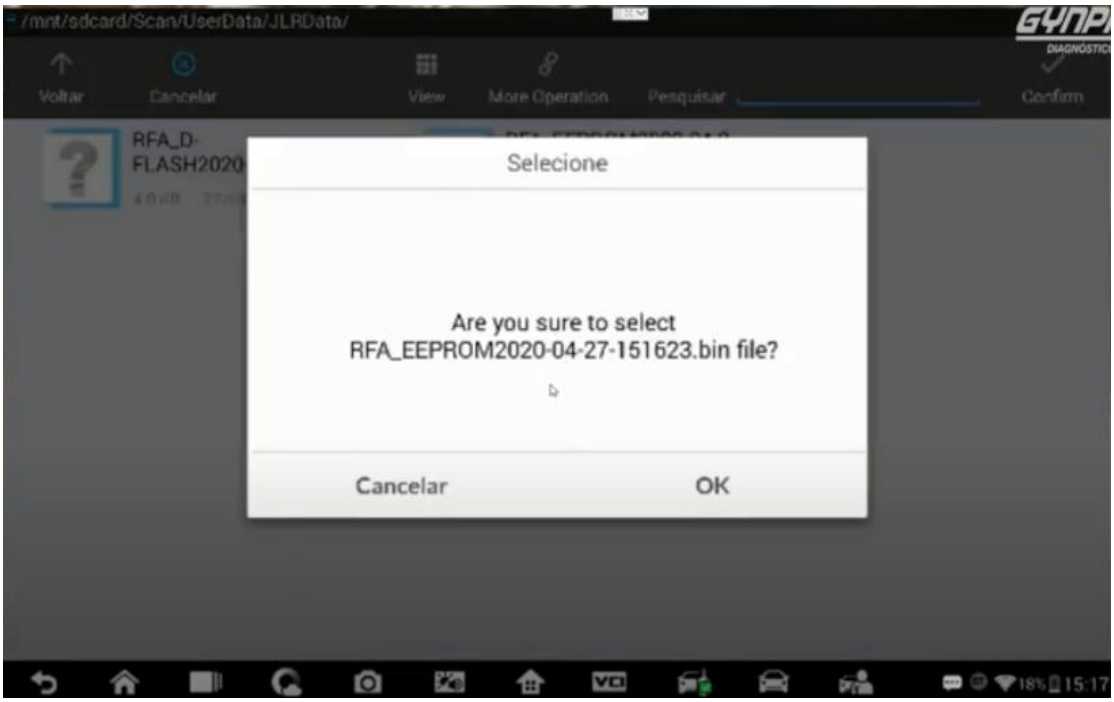

VIN:
Start Key Writing
Please select the DFLASH file.
LandRover V3.10
OK

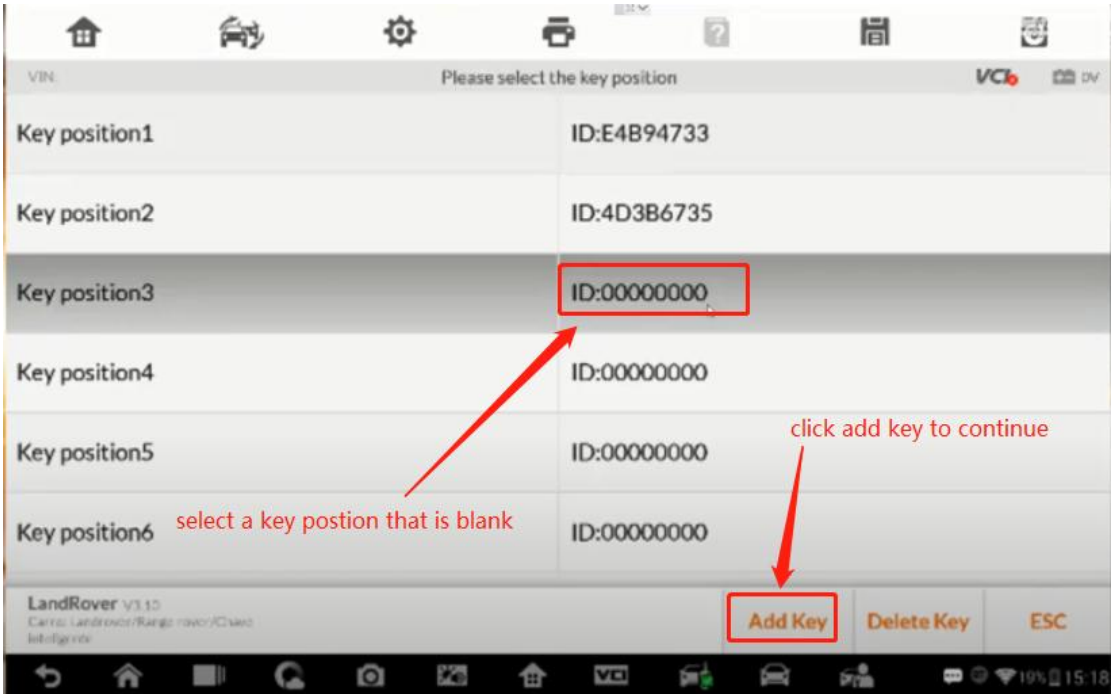

/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
RFA_D-FLASH2020-04-27-15153
4.0 KB 27/04/2020 15:15
RFA_EEPROM2020-04-27-151623.bin
2.0 KB 27/04/2020 15:16


/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
RFA_D-
FLASH2020
Selecione
Are you sure to select RFA_D-FLASH2020-04-27-151533.bin file?
Cancelar
OK


VIN:
Start Key Writing
Please select the EEPROM file.
filePath = /mnt/sdcard/Scan/UserData/JLRData/RFA_D-FLASH2020-04-27-151533.bin
LandRover V3.15
OK

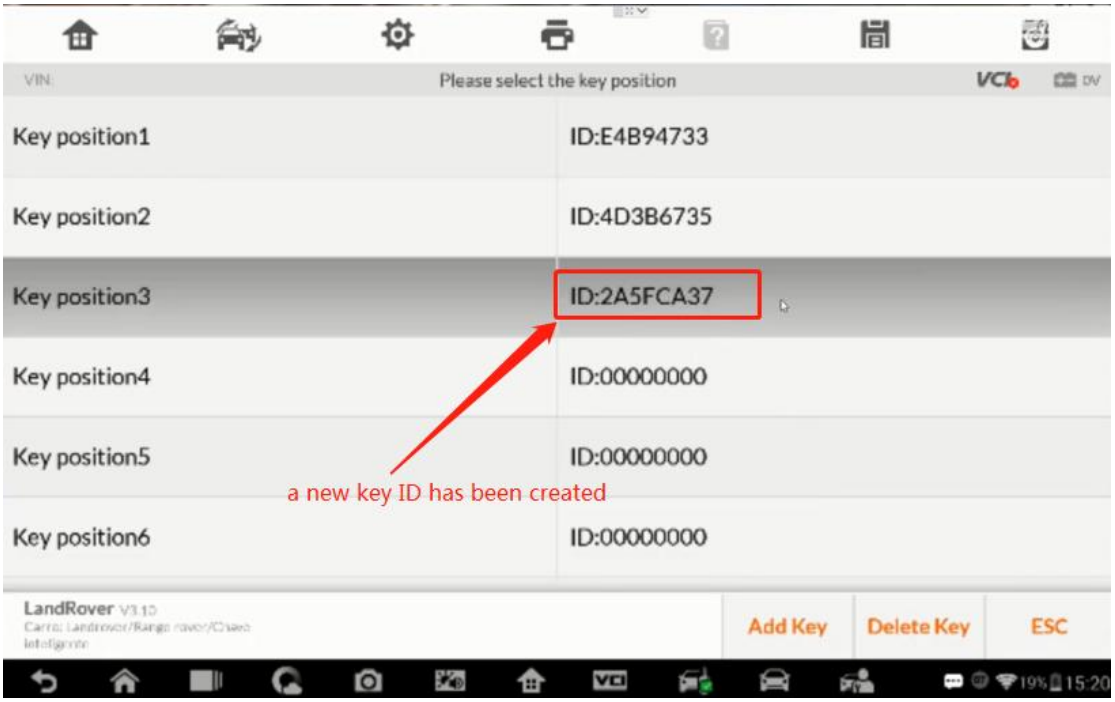

/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
RFA_D-FLASH2020-04-27-15153
4.0 KB 27/04/2020 15:15
RFA_EEPROM2020-04-27-151623.bin
2.0 KB 27/04/2020 15:16

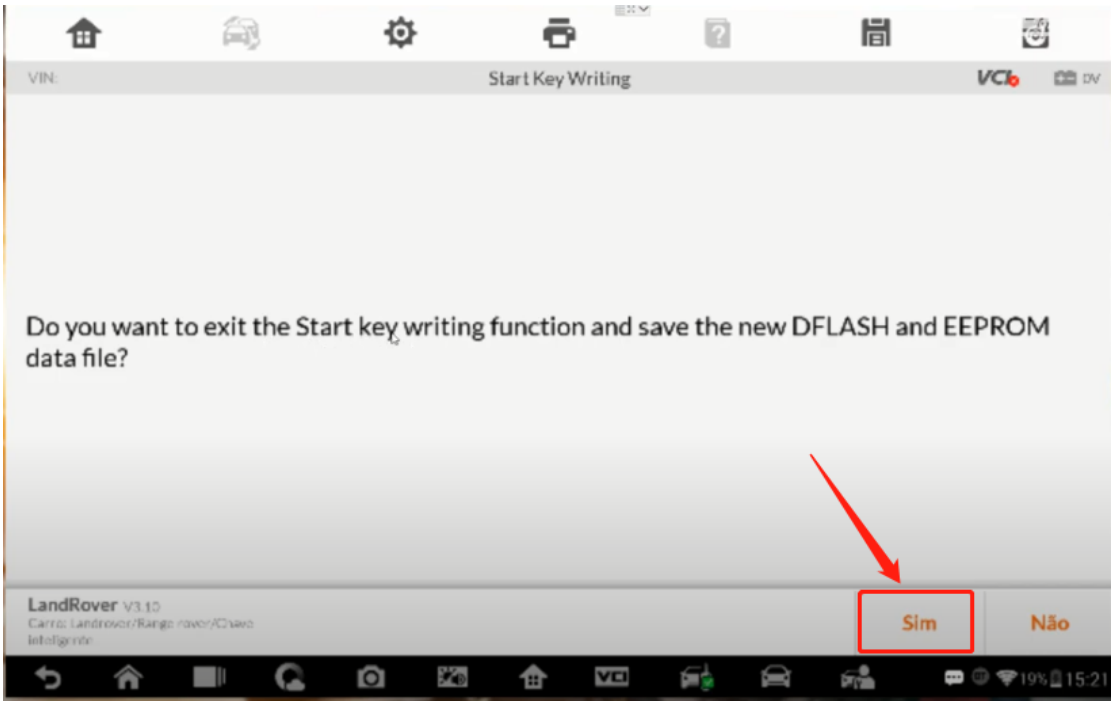

/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
Selecione
Are you sure to select RFA_EEPROM2020-04-27-151623.bin file?
Cancelar
OK

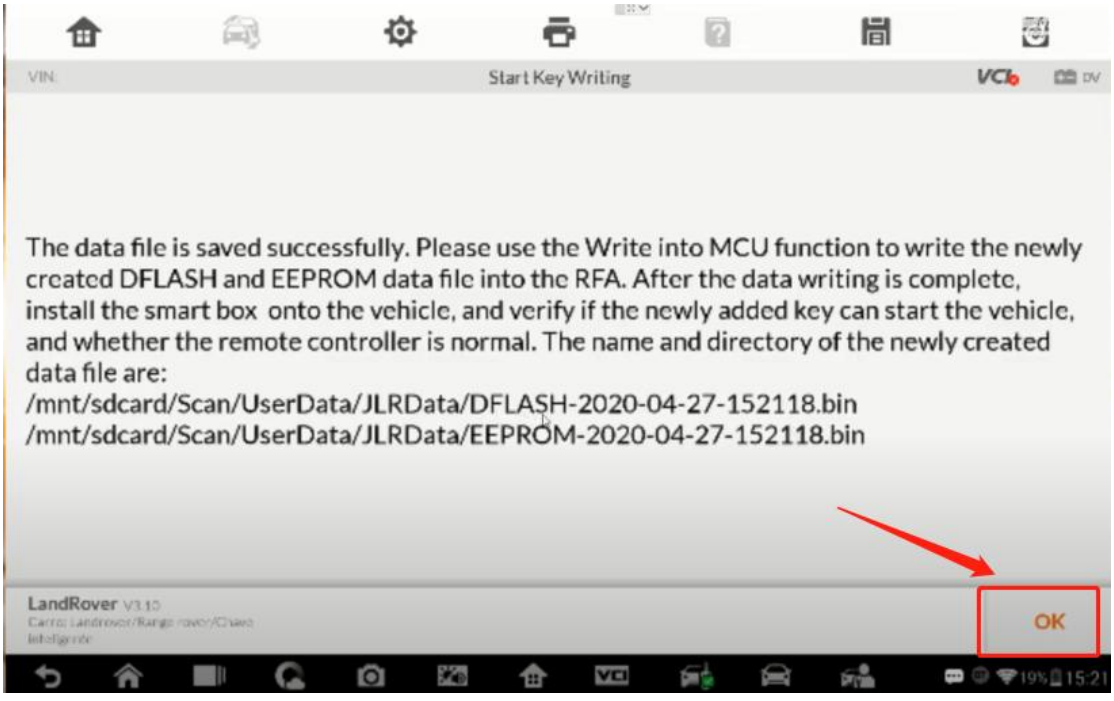

VIN:
Please select the key position
Key position1
ID:E4B94733
Key position2
ID:4D3B6735
Key position3
ID:00000000
Key position4
ID:00000000
Key position5
ID:00000000
Key position6
ID:00000000
select a key postion that is blank
click add key to continue
LandRover V3.10
Add Key
Delete Key
ESC


VIN:
Start Key Writing
Please ensure that the programmer is well connected and place the key to be added in the key sensing area of the programmer!
LandRover V3.10
OK


VIN:
Start Key Writing
A dealer key is created successfully.
LandRover V3.10
OK

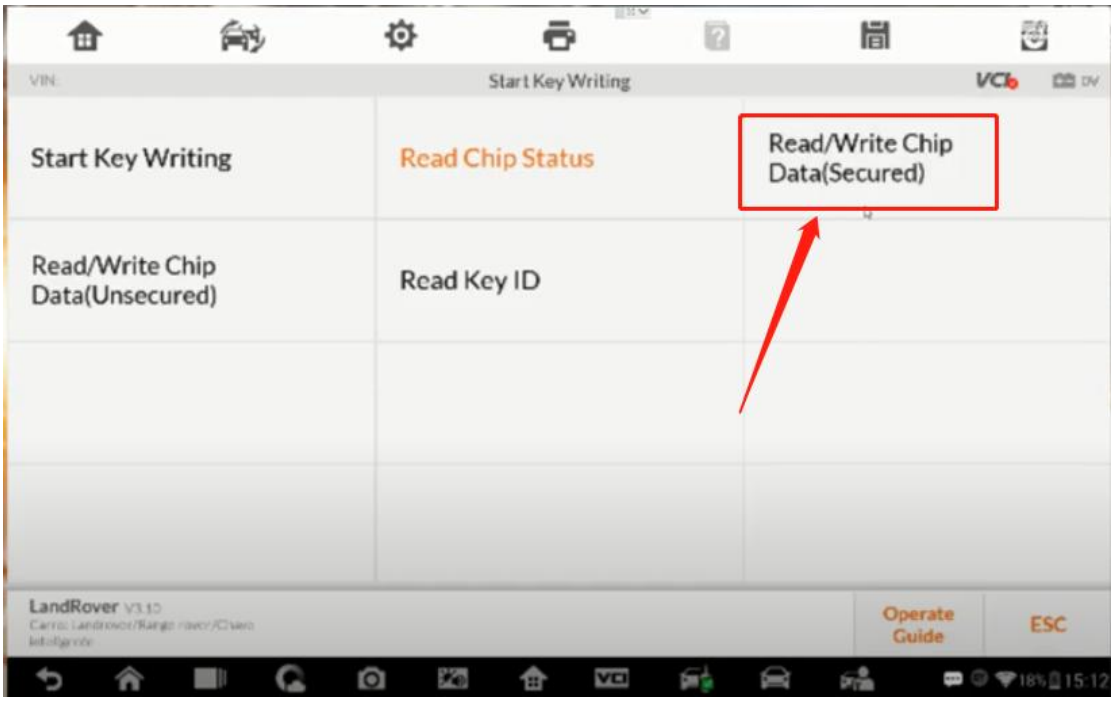

VIN:
Please select the key position
Key position1
ID:E4B94733
Key position2
ID:4D3B6735
Key position3
ID:2A5FCA37
Key position4
ID:00000000
Key position5
ID:00000000
Key position6
ID:00000000
a new key ID has been created
LandRover V3.10
Add Key
Delete Key
ESC

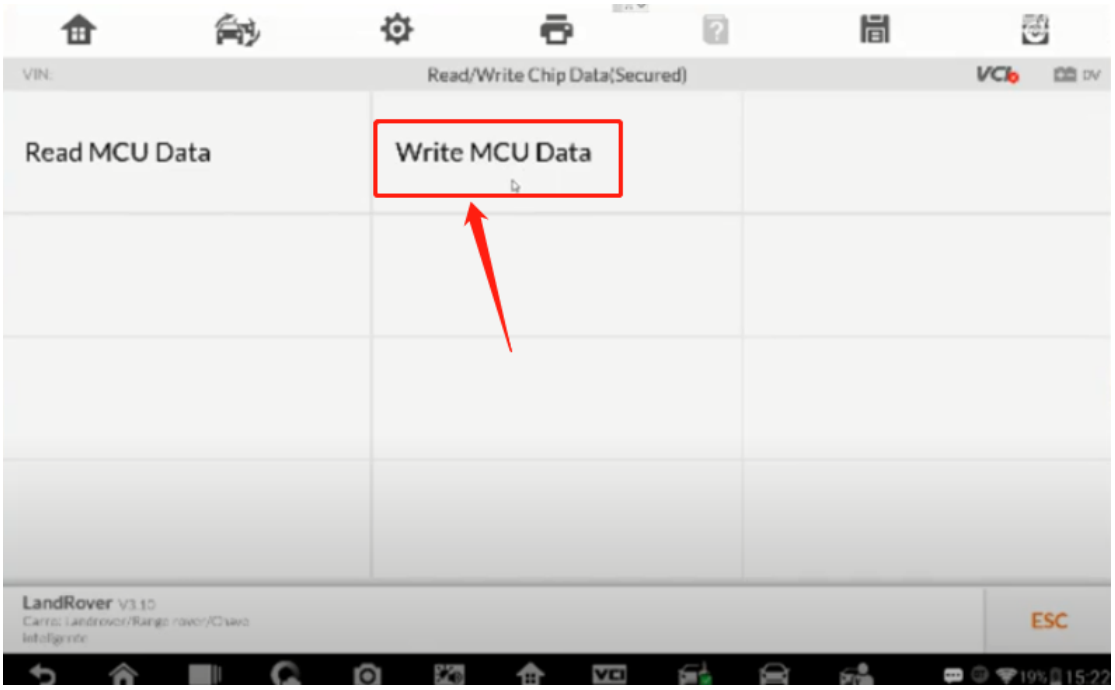




Then go back to the menu Read/write chip Data to write the new created Dflash file and

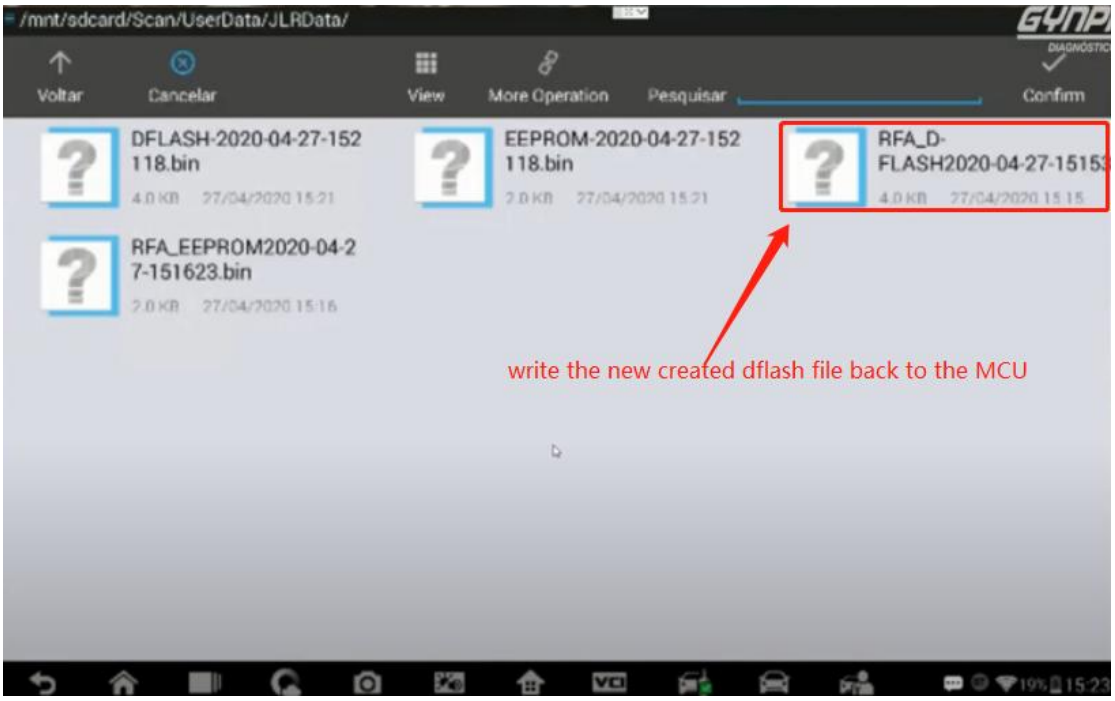
EEPROM file back to the MCU.


VIN:
Start Key Writing
Start Key Writing
Read Chip Status
Read/Write Chip Data(Secured)
Read/Write Chip Data(Unsecured)
Read Key ID
LandRover V3.10
Operate Guide
ESC

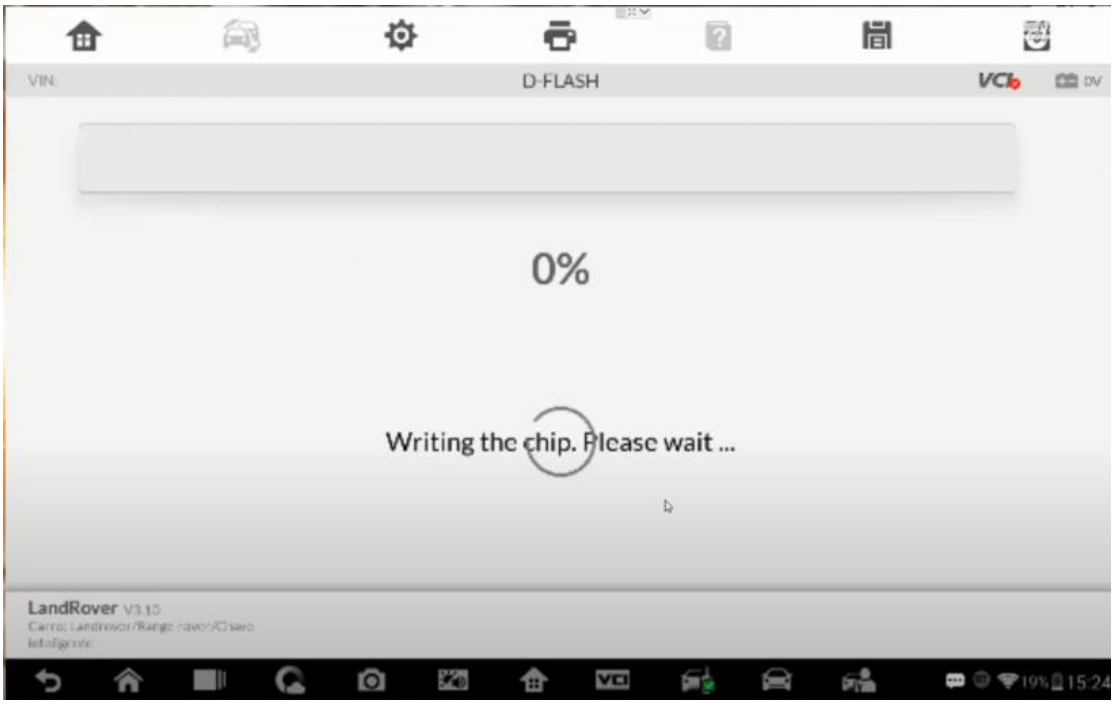

VIN:
Read/Write Chip Data(Secured)
Read MCU Data
Write MCU Data
LandRover V3.10
ESC


VIN:
Write MCU Data
D-FLASH
EEPROM
LandRover V3.10
ESC

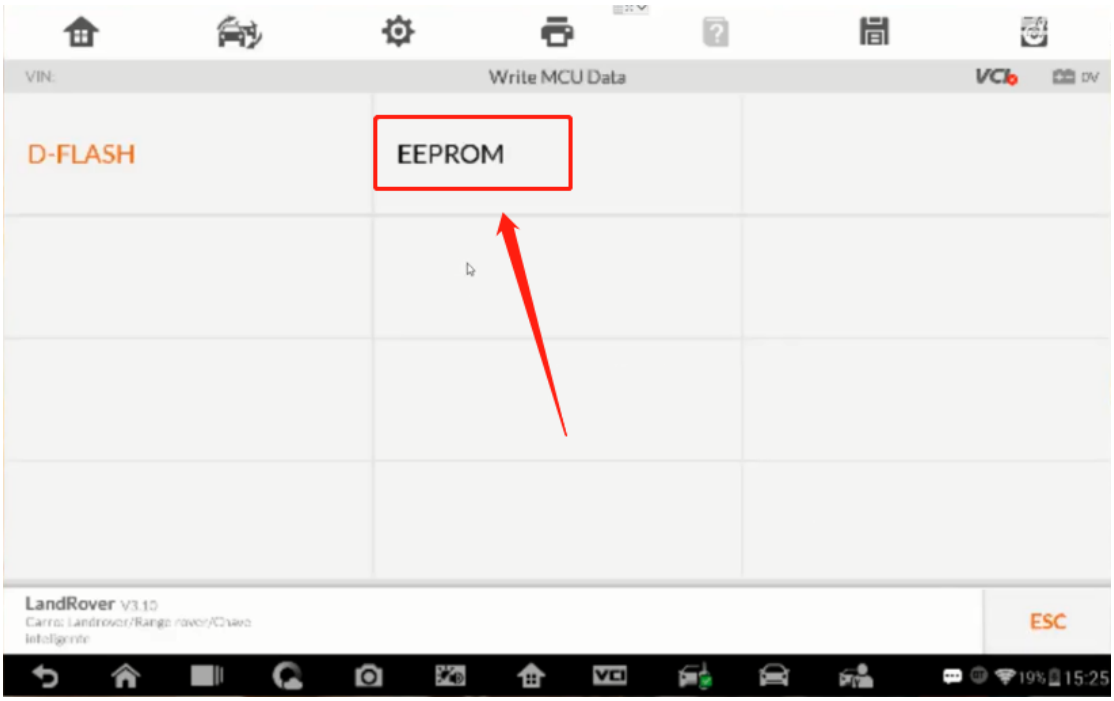

VIN:
D-FLASH
Please select the DFLASH file.
LandRover V3.10
OK

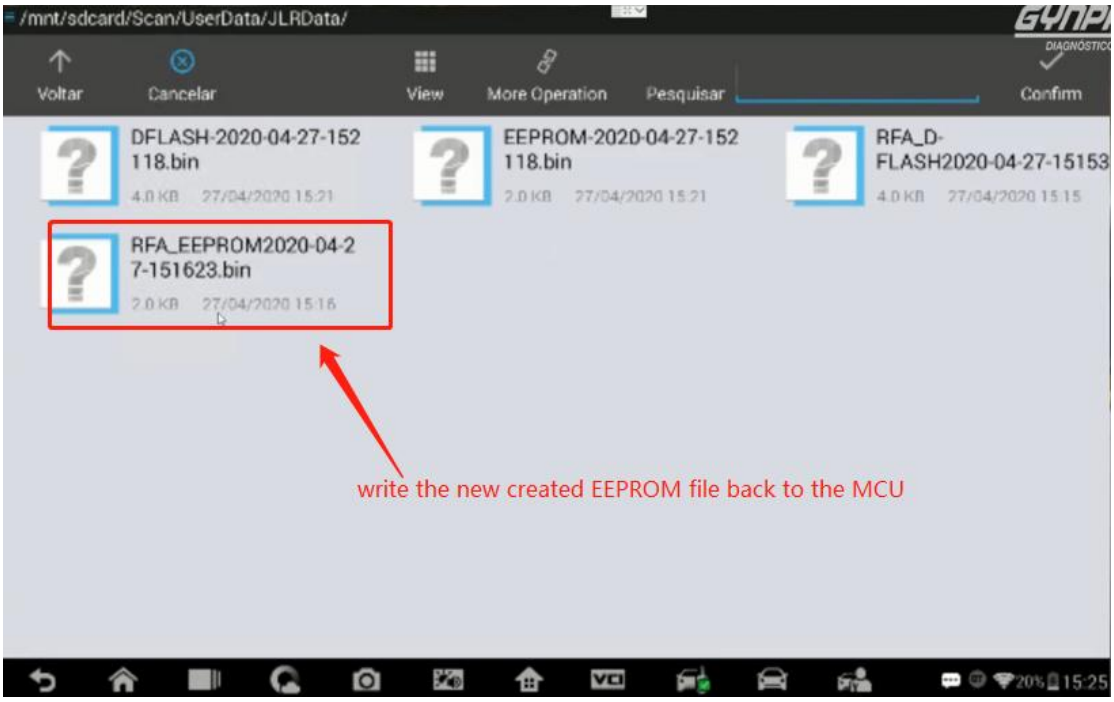

/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
DFLASH-2020-04-27-152118.bin
EEPROM-2020-04-27-152118.bin
RFA_D-FLASH2020-04-27-1515
RFA_EEPROM2020-04-27-151623.bin
write the new created dflash file back to the MCU


VIN:
D-FLASH
Connecting to the programmer...
filePath = /mnt/sdcard/Scan/UserData/JLRData/DFLASH-2020-04-27-152118.bin
LandRover V1.10


VIN:
D-FLASH
0%
Writing the chip. Please wait ...
LandRover V3.10


VIN:
D-FLASH
Writing succeeded
LandRover V3.10
OK


VIN:
Write MCU Data
D-FLASH
EEPROM
LandRover V3.10
ESC


/mnt/sdcard/Scan/UserData/JLRData/
Voltar
Cancelar
View
More Operation
Pesquisar
Confirm
DFLASH-2020-04-27-152118.bin
EEPROM-2020-04-27-152118.bin
RFA_D-FLASH2020-04-27-15153
RFA_EEPROM2020-04-27-151623.bin
write the new created EEPROM file back to the MCU


VIN
EEPROM
Writing succeeded
LandRover V3.15
OK