

# BYD 2023 Song PLUS DM-i Airbag ECU Unlocking

**Tested Model:** BYD 2023 Song PLUS DM-i Champion Edition

## Function Description:

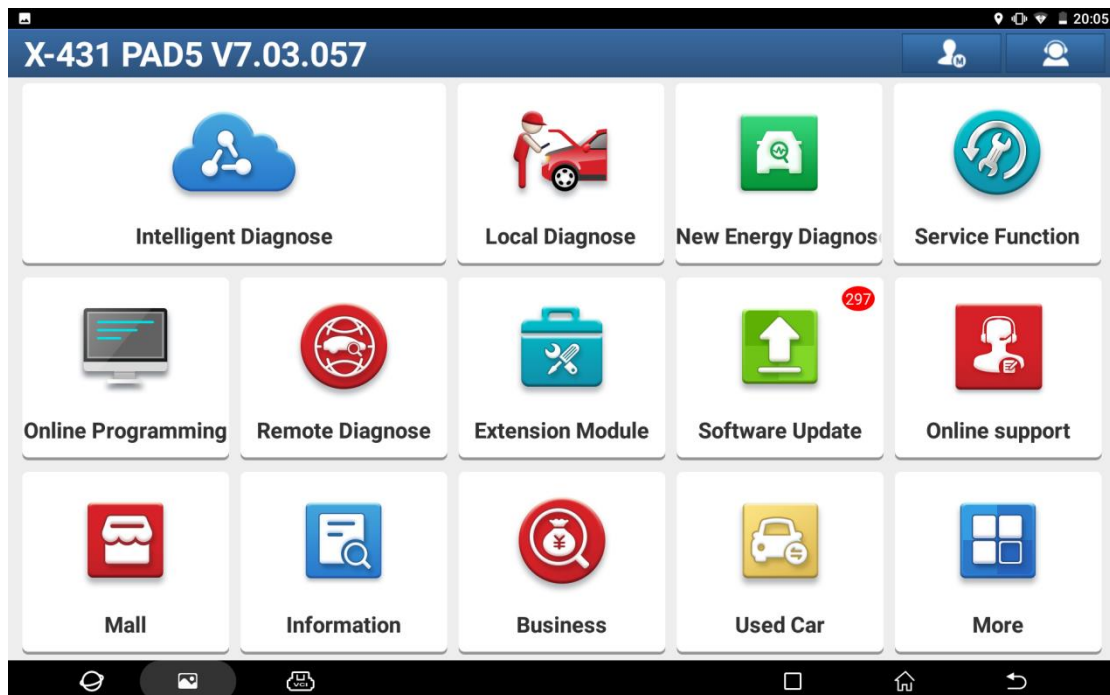
After a collision with a BYD model, the airbag MIL (Malfunction Indicator Lamp) is on the instrument panel. At this time, the airbag system has a DTC "B16AE00 Ignition encryption". It is necessary to replace the airbag module with a new one. After the replacement, the DTC of the airbag system becomes "B169100 Factory encryption", and then the problem can be resolved by unlocking the airbag ECU.

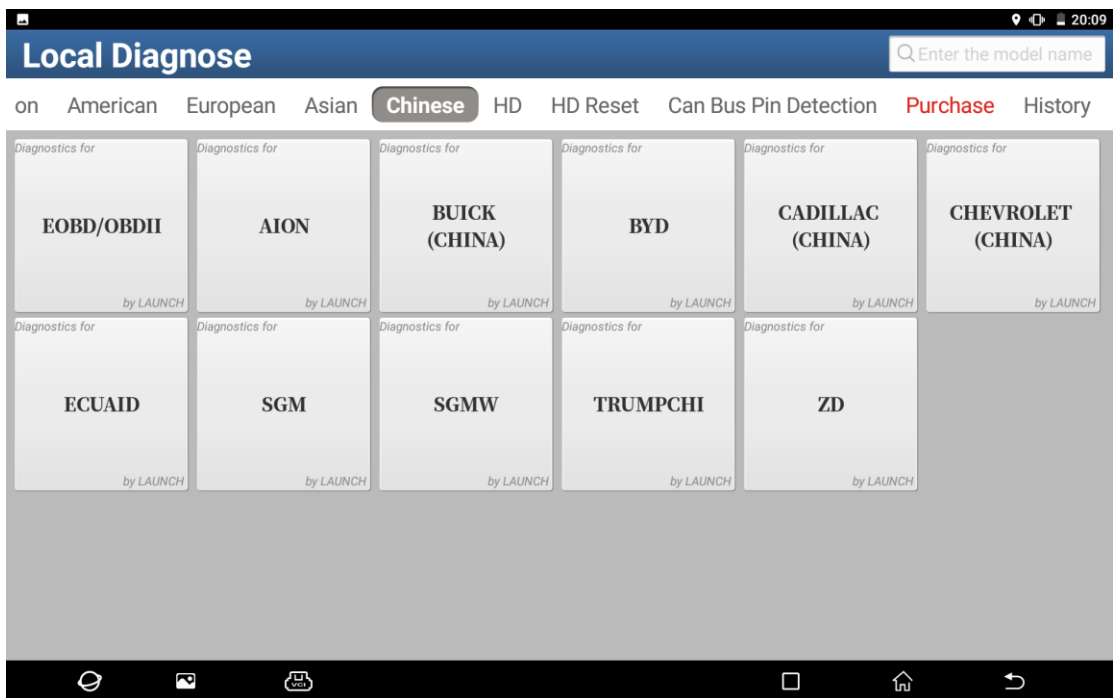
## Execution Conditions:

- The airbag module is replaced with a new one.
- The ignition switch is in the ON position.
- The diagnostic instrument is connected to the network.

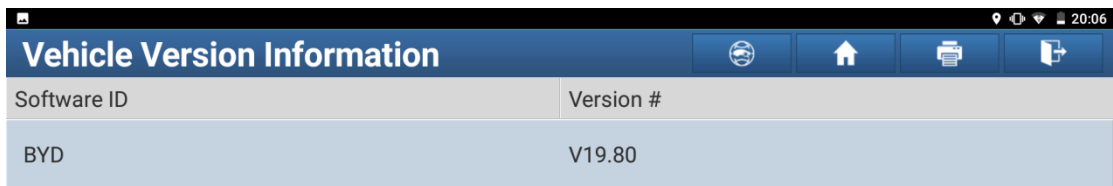
## Procedure:

1. On a PAD 5, choose [Local Diagnose], and then choose [BYD] for testing.





2. Choose the latest BYD software upgrade version V19.80 or later.



### BYD Diagnosis Program V19.80

#### UPDATE

**Summary:**

- Added five models Toyota bZ3, T5, T5A, T5D and T5LC. Updated the front radar and front camera static calibration target placement for all models.

**New Functions:**

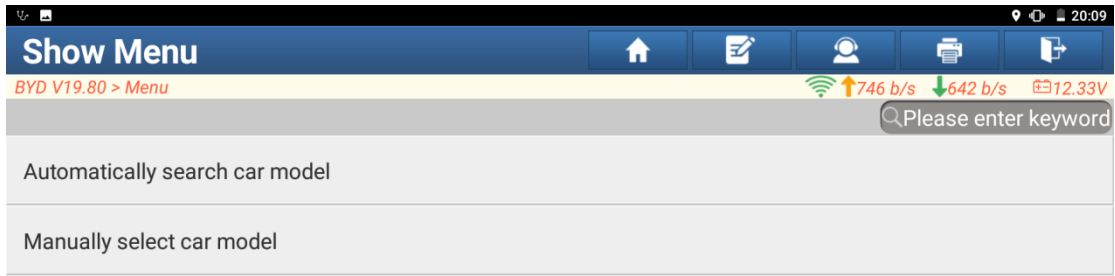
- None

**Optimized Functions:**

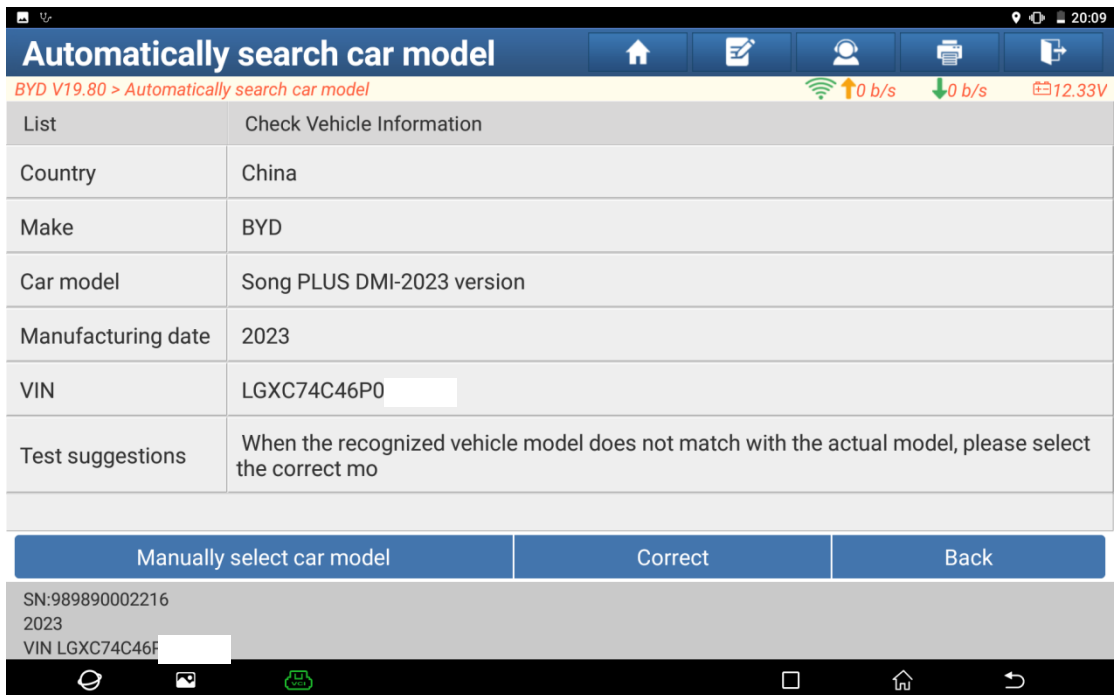
- 1) Added basic functions and special functions including version information, DTC reading, DTC clearing, data stream reading, actuation test, battery pack code calibration, motor zero position calibration, VIN writing, airbag decoding, dynamic calibration and static calibration of 36 systems for Toyota bZ3.
- 2) Added functions of version information, DTC reading, DTC clearing, data stream reading and actuation test of 186 systems for four models BYD T5, T5A, T5D and T5LC.
- 3) Updated the front radar and front camera static calibration target placement. Added the support of ADAS products such as ADAS PRO PLUS V2, ADAS ECO, ADAS RADAR 3IN1, ADAS Mobile Plus and ADAS LITE.



3. Choose [Automatically search car model].



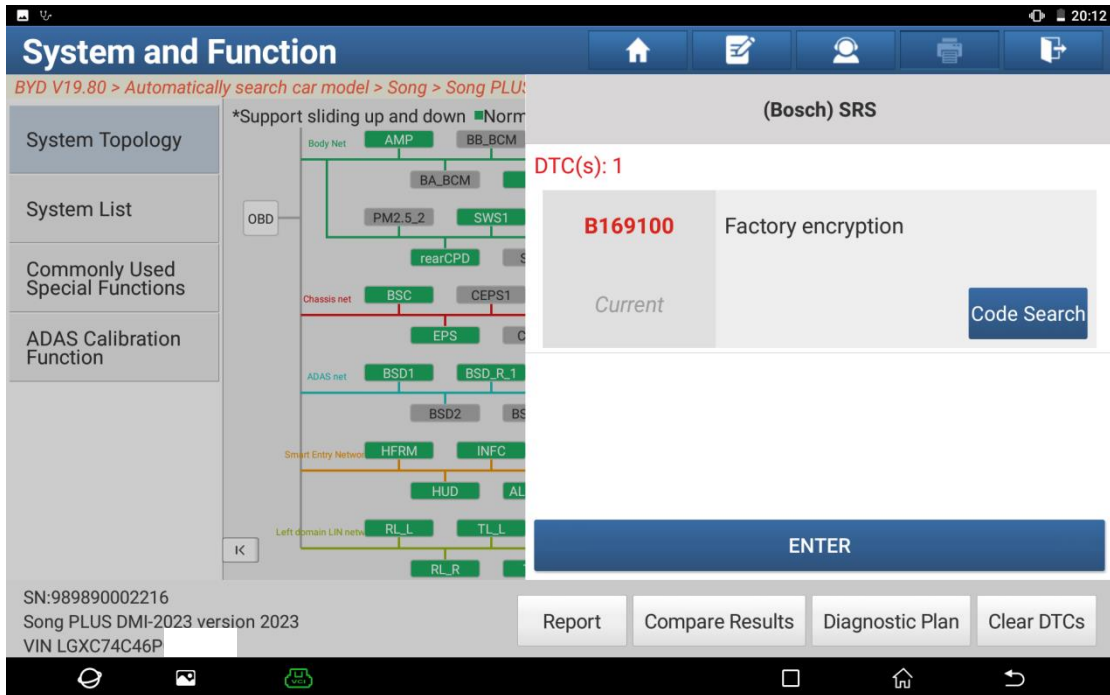
4. Determine whether the identified model is consistent with the actual model. If they are consistent, click [Correct]. Otherwise, click [Manually select car model] to select the correct model for testing.



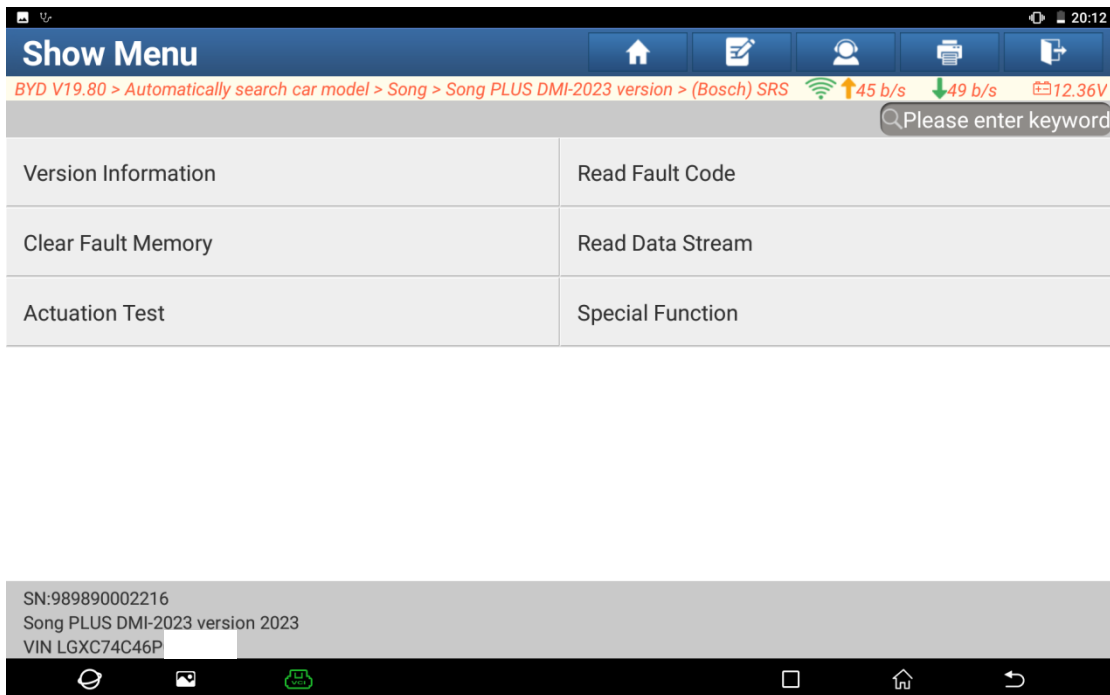
5. Click [High-speed Scan].

6. The correct airbag is scanned out. Choose [SRS1] (Bosch) airbag (SRS\_BOSCH).

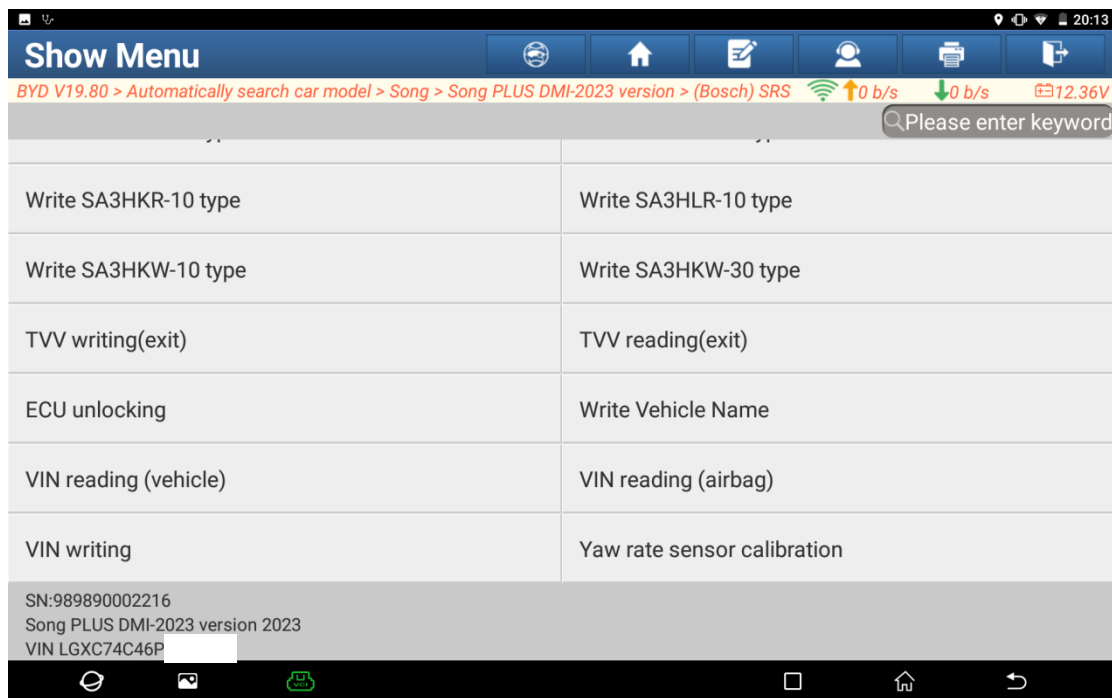
7. There is a DTC "B169100 Factory encryption" in the airbag system. Click [Enter].



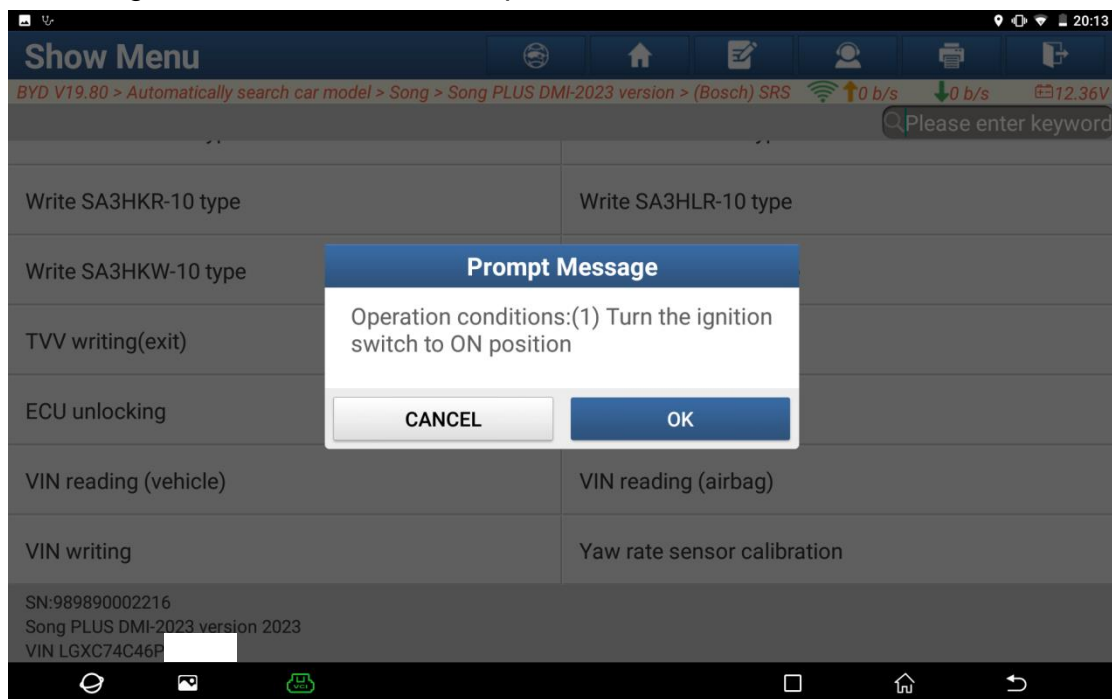
8. Click [Special Function].



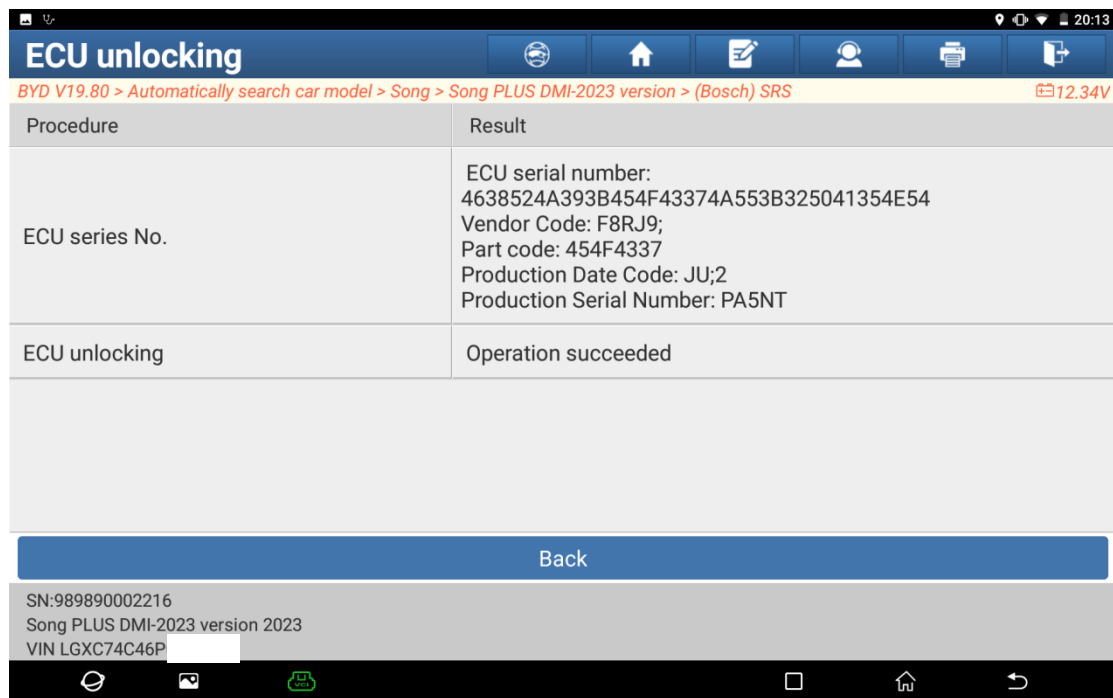
9. Click [ECU Unlocking].



10. The ignition switch is in the ON position. Click OK.



11. ECU unlocking succeeds. Click [Back].



12. After clearing the DTC, read the DTC again. There is no DTC and the airbag MIL on the instrument panel goes out.



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