

SYNC Module [APIM] Programming

Special Tool(s) / General Equipment

SYNC USB 2.0 A Male to A Male Cable

Activation

1.  **WARNING:** Before beginning any service procedure in this section, refer to **Health and Safety Precautions** in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

Refer to: [Health and Safety Precautions](#) (100-00 General Information, Description and Operation).

2. If a new APIM is being installed, install the new APIM before carrying out the following procedure.
Refer to: [SYNC Module \[APIM\]](#) (415-00C Information and Entertainment System - General Information - Vehicles With: Touchscreen Display, Removal and Installation).

3. NOTE:

- *This programming procedure deletes any phones that were paired with the SYNC® system.*
- *To prevent timeout errors and to minimize programming time, a hardwired Internet connection is strongly recommended when programming.*
- *A file of approximately 80 megabytes (MB) needs to be downloaded from the online database for the programming. Allow extra time for the file to download.*
- *The diagnostic scan tool is required.*
 - *Ensure that the IDS version and patch software levels are up to date.*

4. Connect a battery charger to the vehicle and select the low charge setting. The negative battery charger lead must be connected to a clean chassis ground, not the negative battery post.

5. Plug the diagnostic scan tool into a power supply due to the length of time the programming requires.
6. Connect the diagnostic scan tool to the VCM, and the VCM to the DLC.
7. Connect one end of the APIM programming USB cable (male type A 4-pin to male type A 4-pin) to the diagnostic scan tool's USB port, and the other end to the vehicle's USB port. For vehicles with a front and a rear USB port, the front port is to be used (USB1).
Use the General Equipment: SYNC USB 2.0 A Male to A Male Cable
8. Close the IDS software program.
9. Place the ignition in the ON/RUN position. For ON/RUN position information with Push Button Start vehicles,
Refer to: [Steering Wheel and Column Electrical Components - System Operation and Component Description](#) (211-05 Steering Wheel and Column Electrical Components, Description and Operation).
10. **NOTE:**
 - *Using the diagnostic scan tool, open INTERNET EXPLORER and access the technician service publication website.*
 - *Run OASIS using "Read VIN & DTCs."*
 - *If the "Read VIN & DTCs" button is green with a red VCM icon, refer to the "SYNC - Software Programming" document under the "Service Tips" tab.*
 - *If the "Read VIN & DTCs" button is red with a grey VCM icon, ensure pop-ups are enabled, follow the INTERNET EXPLORER pop-ups, and then refer to the "SYNC - Software Programming" document under the "Service Tips" tab.*
 - *If the "SYNC - Software Programming" document is not followed, the programming may stop or encounter errors due to improperly configured Internet browser settings.*
11. From the OASIS tab, select the "SYNC" button. The Last Recorded State — Software is displayed.
12. **NOTE:** *There are 3 types of APIM programming available:*
 - *Standard — Used to update the APIM and any currently installed Applications to the latest software levels.*
 - *Custom — Used to show all the available software options (including Applications that may not have been installed previously) that can be programmed into the APIM. Use this selection when upgrades become available or as directed by a TSB or FSA.*

- *Module Replacement* — Used when the APIM has been replaced. This type of programming performs the required provisioning (restores software for newly installed hardware).

13. Scroll to the bottom of the screen, select 1 of the 3 options (Standard, Custom, or Module Replacement), and select the "Read SYNC" button. The VIN, current APIM assembly, VIP, and CIP software levels are compared to the last recorded state in the Ford online database, and the available software is displayed.
14. **NOTE:** Do **not** disconnect the VCM or USB cable during APIM programming unless directed by the diagnostic scan tool on-screen prompts.

Select the "Program SYNC" button to begin the APIM programming process.

15. Follow the diagnostic scan tool on-screen directions. After programming is complete, the diagnostic scan tool displays "Programming has been successfully completed."