

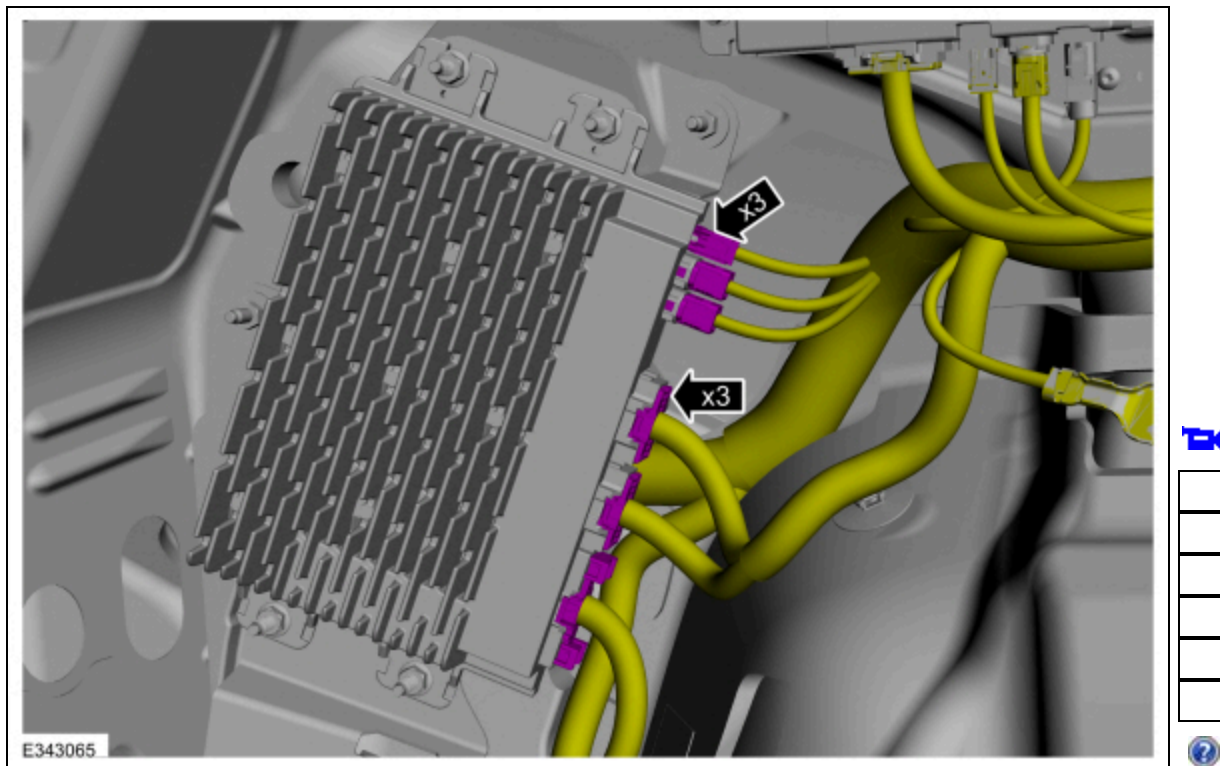
Image Processing Module A (IPMA)

Removal

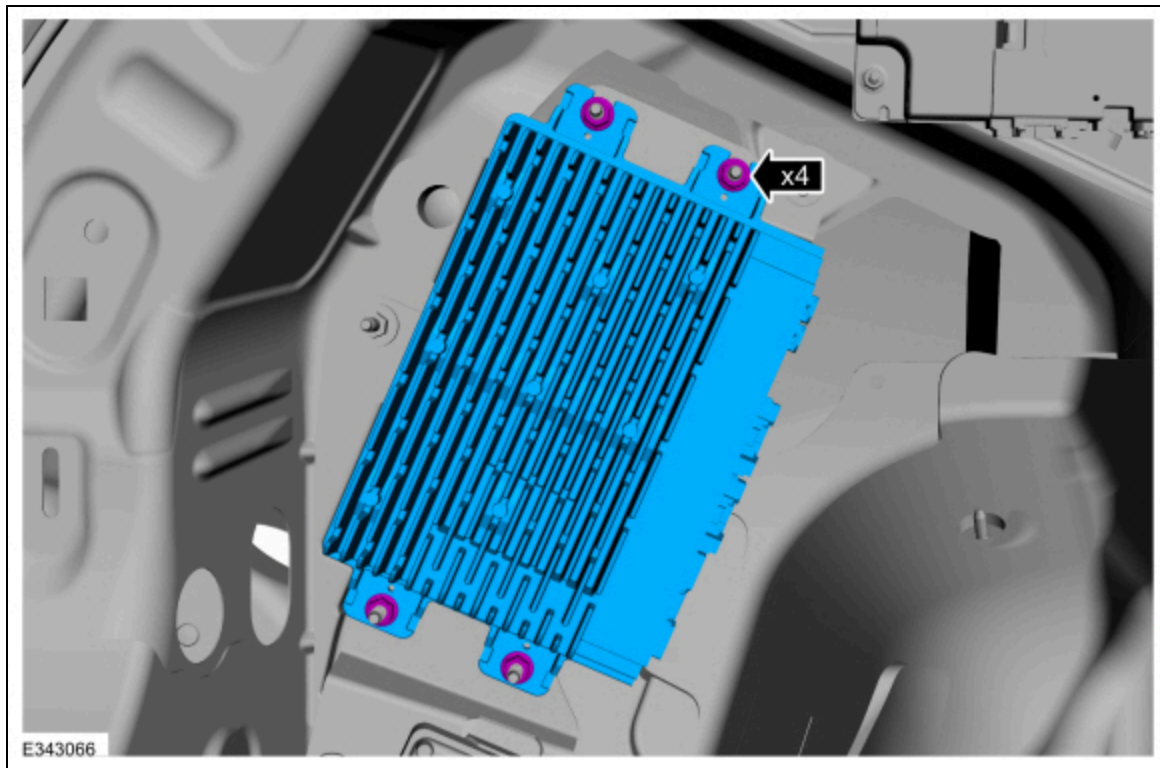
NOTE: Removal steps may contain installation instructions.

NOTE: If installing a new module, it is necessary to upload the module configuration information to the scan tool prior to removing the module. This information must be downloaded into the new module after installation.

1. Remove the loadspace trim panel.
Refer to: [Loadspace Trim Panel](#) (501-05 Interior Trim and Ornamentation, Removal and Installation).
2. Disconnect the IPMA electrical connectors.



3. Remove the nuts and IPMA .
Torque: 53 lb.in (6 Nm)



Installation

1. To install, reverse the removal procedure.
2. If a new IPMA has been installed, using a diagnostic scan tool, complete the PMI process for the IPMA following the on-screen instructions.
3. Using a diagnostic scan tool, Complete the Image Processing Module A (IPMA) Alignment.
4. **NOTE:** *When a new IPMA is installed, a camera alignment DTC is stored until the IPMA camera alignment is successfully completed.*

IPMA camera alignment is required for the lane keeping alert and lane keeping aid to function correctly. The procedure is initiated using the diagnostic scan tool and requires about 10 minutes of driving above 64 km/h (40 mph) on a flat, straight road with highly visible lane markings to complete.

Refer to: [Lane Keeping System - System Operation and Component Description](#) (419-07 Lane Keeping System, Description and Operation).

5. Using a diagnostic scan tool, perform the IPMA - Local Interconnect Network (LIN) New Module Initialization.
6. Using a diagnostic scan tool, perform the rear parking aid camera alignment.

Vehicles with 360 degree cameras

7. **NOTE:** *A 360 degree camera alignment DTC (diagnostic trouble code) set until the 360 Calibration is successfully completed.*

Carry out the 360 degree camera alignment.

Refer to: [360 Degree View Camera Alignment](#) (413-13B Parking Aid - Vehicles With: 360 Degree Camera/Parking Aid Camera, General Procedures).

