

# Special Service Message

NOTE: A Special Service Message is a formal communication issued by Jaguar and carries the same importance of a Technical Service Bulletin. An SSM is a quick method of communicating "Need To Know" information to the technical service community. SSM's may be issued in advance of a technical bulletin or may be the only communication on a given topic. All information contained in Jaguar technical communications are intended for use by trained, professional technicians with the knowledge, tools, and equipment required to complete the procedure correctly and safely. It informs the Technicians of conditions that may occur on some vehicles, or provides information that could assist in correct vehicle and diagnostic service.

SSM 75079 - X590 Electric Drive Unit (EDU) internal shaft accidentally removed

**Models :** I-Pace / X590

**Engineer** Gál Attila

**Name :**

**Last** 28 SEP 2020 19:59:30

**Modified :**

**Category :** Engine

**Symptom :** 499000 Basic Engine

**Content :** **Issue:** Removing Drive shafts on an X590 vehicle could accidentally pull out either the front or rear EDU internal shafts.

**Cause:** Retention force of the EDU internal shafts could be lower than the required for to pull out the drive shafts.

**Action:**

In case of accidental removal of the X590 EDU internal shaft, please follow the next steps:

1. Remove the drive shaft shaft seal from the unit (ensure the seal spring is not left in the unit).
2. Inspect the internal shaft attached to driveshaft:
  - A, If the internal shaft retention ring still present and intact in the shaft's groove proceed with following steps (3)
  - B, If the retention ring isn't present, the EDU unit must be changed, because the retention ring is trapped inside. (See an example of the missing retention ring – "Missing retention ring.jpg")
3. Obtain parts to refit the internal shaft into the EDU:
  - A, Order new Electric Drive Unit (EDU) internal shaft (Service part number: T4K14647)
  - B, Order new drive shaft seal. Do not fit shaft seal, until the new internal shaft has been installed!
4. Install the internal shaft in the unit. Make sure, the end of the internal shaft is slightly below the face of the ball bearing inner race, in order to achieve proper spline and retention ring engagement. (See

attached picture: “Internal shaft installed.jpg”)

5. Install new drive shaft seal as per TOPIX procedure: 205-04: Front Drive Halfshafts - Removal and Installation – Front Halfshaft Seal / 205-05: Rear Drive Halfshafts - Removal and Installation – Rear Halfshaft Seal

6. Follow the TOPIX procedure for the drive shaft installation: 205-04: Front Drive Halfshafts - Removal and Installation – Front Halfshaft / 205-05: Rear Drive Halfshafts - Removal and Installation – Rear Halfshaft

The procedure is valid for front and rear drive unit, as they have similar design.

**File :** [Internal shaft installed.jpg](#)  
[Missing retention ring.jpg](#)