

Component Procedures: Seat Belt Tensioner

Table of Contents

1. Pretensioner Handling and Scrapping (Europe) (Article 13321)
2. Pretensioner Handling and Scrapping (Except Europe) (Article 13322)

Component Procedures: Seat Belt Tensioner

Pretensioner Handling and Scrapping (Europe) (Article 13321)

Special Tools

EL-38826 - SIR Deployment Harness

For equivalent regional tools, refer to Special Tools .

Scrapping Procedure

During the course of a vehicles useful life, certain situations may arise which will necessitate the disposal of a live (undeployed) pretensioner . The following information covers the proper procedures for the disposing of a live (undeployed) pretensioner. Do not dispose of a live (undeployed) pretensioner through normal disposal channels until the pretensioner has been deployed. The following information covers the proper procedures for the disposing of a live (undeployed) pretensioner.

- After replacement of a pretensioner under warranty. The pretensioner may need to be returned undeployed to the original manufacturer of pretensioner.

- If the vehicle is the subject of a Product Liability report related to the SIR system and is subject to a Preliminary Investigation — do not alter the SIR system in any manner.

- If the vehicle is involved in a campaign affecting the pretensioners. Follow the instructions in the Campaign Service Bulletin for proper SIR handling procedures.

Deployment Procedures

The pretensioner can only be deployed inside of the vehicle. Refer to Inflatable Restraint Module Handling and Scrapping for deploying the pretensioner inside vehicle under Vehicle Scrapping Procedure.

Pretensioner Handling and Scrapping (Except Europe) (Article 13322)

Special Tools

- EL-39401-B - SIR Deployment Fixture

- EL-38826 - SIR Deployment Harness

For equivalent regional tools, refer to Special Tools .

Scrapping Procedure

During the course of a vehicles useful life, certain situations may arise which will necessitate the disposal of a live (undeployed) pretensioner . The following information covers the proper procedures for the disposing of a live (undeployed) pretensioner. Deploy the pretensioner before disposal. Do not dispose of a live (undeployed) pretensioner through normal disposal channels until the pretensioner has been deployed. The following information covers the proper procedures for the disposing of a live (undeployed) pretensioner.

- After replacement of a pretensioner under warranty. The pretensioner may need to be returned undeployed to the original manufacturer of pretensioner.

- If the vehicle is the subject of a Product Liability report related to the SIR system and is subject to a Preliminary Investigation — do not alter the SIR system in any manner.

- If the vehicle is involved in a campaign affecting the pretensioners. Follow the instructions in the Campaign Service Bulletin for proper SIR handling procedures.

Deployment Procedures

The pretensioner can be deployed inside or outside of the vehicle. The method used depends upon the final disposition of the vehicle. Review the following procedures in order to determine which will work best in a given situation.

Deployment Inside the Vehicle

Refer to Inflatable Restraint Module Handling and Scrapping for deploying the pretensioner inside vehicle under Vehicle Scrapping Procedure.

Deployment Outside Vehicle for Seat Belt Pretensioner s

Deploy the seat belt pretensioners outside of the vehicle when the vehicle will be returned to service.

Situations that require deployment outside of the vehicle include the following:

- Using the SIR diagnostics, you determine that the seat belt pretensioner is malfunctioning.

- The pretensioner pigtail (if equipped) is damaged.

- The pretensioner connector is damaged.

- The pretensioner connector terminal is damaged.

Deployment and disposal of a malfunctioning seat belt pretensioner is subject to any required retention period.

- Turn the ignition switch to the OFF position. [Click for full-size image](#)

- Remove the ignition key.

- Put on safety glasses.

- Remove the seat belt pretensioner from the vehicle.

- When carrying a pretensioner to the deployment area keep the open end of pretensioner pointed away from the

body.

- Clear a space on the ground about 1.85 M (6 ft) in diameter for deployment of the pretensioner. If possible, use a paved, outdoor location free of activity. Otherwise, use a space free of activity on the shop floor. Make sure you have sufficient ventilation. [Click for full-size image](#)
- Make sure no loose or flammable objects are in the area.
- Place the EL-39401-B - SIR deployment fixture in the center of the cleared area.
- Fill the fixture plastic reservoir with water or sand.
- Mount the pretensioner (1) in the SIR deployment fixture (3) with the open end facing up using the following mounting method. [Click for full-size image](#)
- Adjust and secure the EL-39401-B arms (4) to the deployment fixture (3).
- To mount, use the proper size bolt (2) and nut (5) with washers in order to secure the pretensioner (1) to the deployment fixture brackets (4).
- Securely tighten all fasteners prior to deployment.
- Inspect the EL-38826 - SIR deployment harness and the appropriate pigtail adapter for damage. Replace as needed. [Click for full-size image](#)
- Short the 2 SIR deployment harness (1) leads together using one banana plug seated into the other.
- Connect the appropriate pigtail adapter (2) to the SIR deployment harness (1).
- Extend the SIR deployment harness and adapter to full length from the deployment fixture. [Click for full-size image](#)
- Connect the pretensioner (1) to the adapter (2) on the deployment harness (3). [Click for full-size image](#)
- Clear the area of people.
- Separate the 2 banana plugs on the SIR deployment harness. [Click for full-size image](#)
- Place a 12 V minimum/2 A minimum power source (i.e., vehicle battery) near the shorted end of the harness. [Click for full-size image](#)
- Connect the SIR deployment harness wires to the power source. Pretensioner deployment will occur when contact is made.
- Disconnect the SIR deployment harness from the power source after the pretensioner deploys.
- Seat one banana plug into the other in order to short the deployment harness leads. [Click for full-size image](#)
- If the pretensioner did not deploy, disconnect the adapter and discontinue the procedure. Contact the Technical Assistance Group. Otherwise, proceed to the following steps.
- Put on a pair of shop gloves.
- Disconnect the pigtail adapter from the pretensioner as soon as possible.
- Inspect the pigtail adapter and the SIR deployment harness. Replace as needed.
- Dispose of the deployed pretensioner through normal refuse channels.
- Wash hands with a mild soap.