

■ Advantages:

- Allows the refitting of first assembly components (insert) and ensures protection exactly like the original protection.

■ Disadvantage:



Impossible to retouch after assembly.



Repair-00x03x04x04-02x21-2-1-1.xml



XSL version : 3.02 du 22/07/11

mcx30.com

SPEED SENSOR: REMOVAL - REFITTING



Note, one or more warnings are present in this procedure



Equipment required

Diagnostic tool

oil recovery tray



WARNING

Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions [Vehicle: Precautions for the repair](#) .



WARNING

To avoid all risk of damage to the systems, apply the safety and cleanliness instructions and operation recommendations before carrying out any repair:

■ [Automatic gearbox: Precautions for the repair](#) ,

■ [Vehicle: Precautions for the repair](#) .

REMOVAL

1. REMOVAL PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove the front left-hand wheel [Wheel: Removal - Refitting](#) .



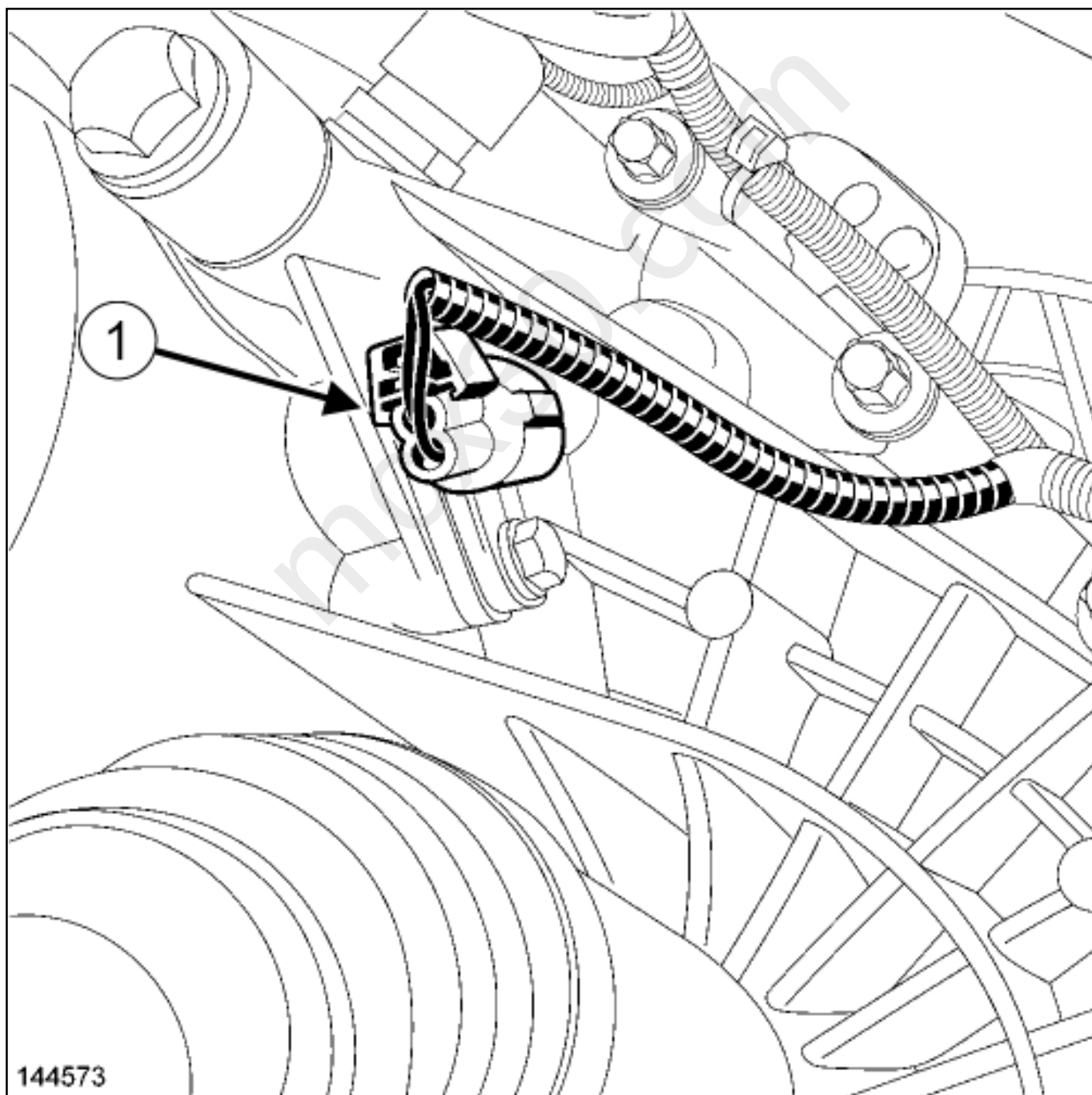
Note:

The connectors have a locking system.

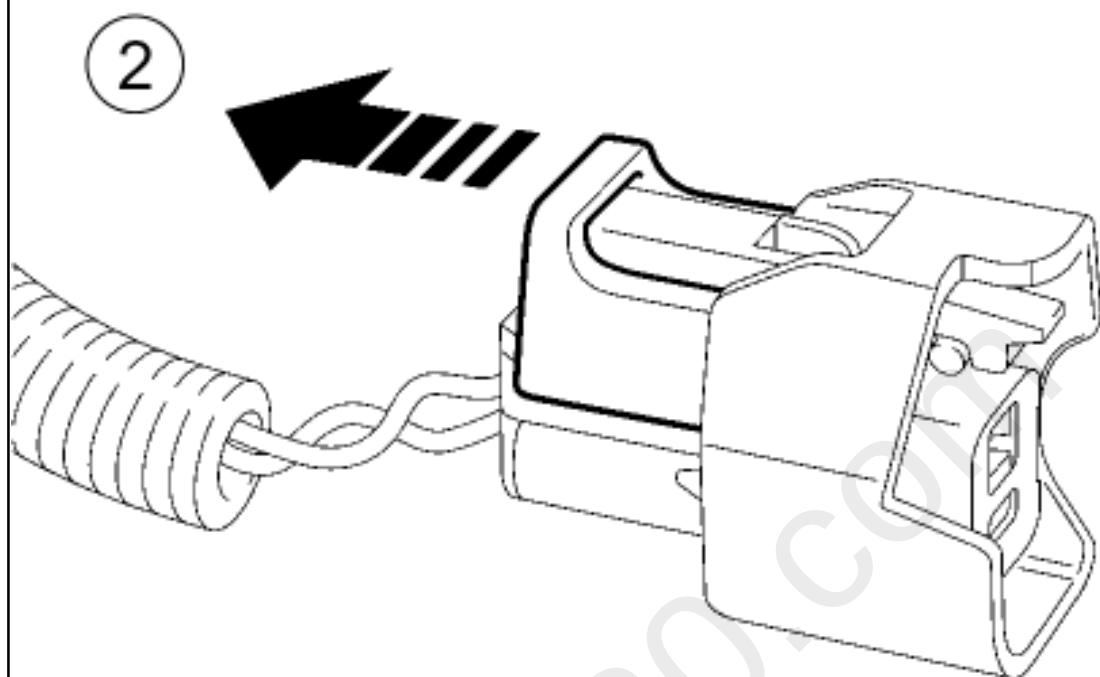


CAUTION

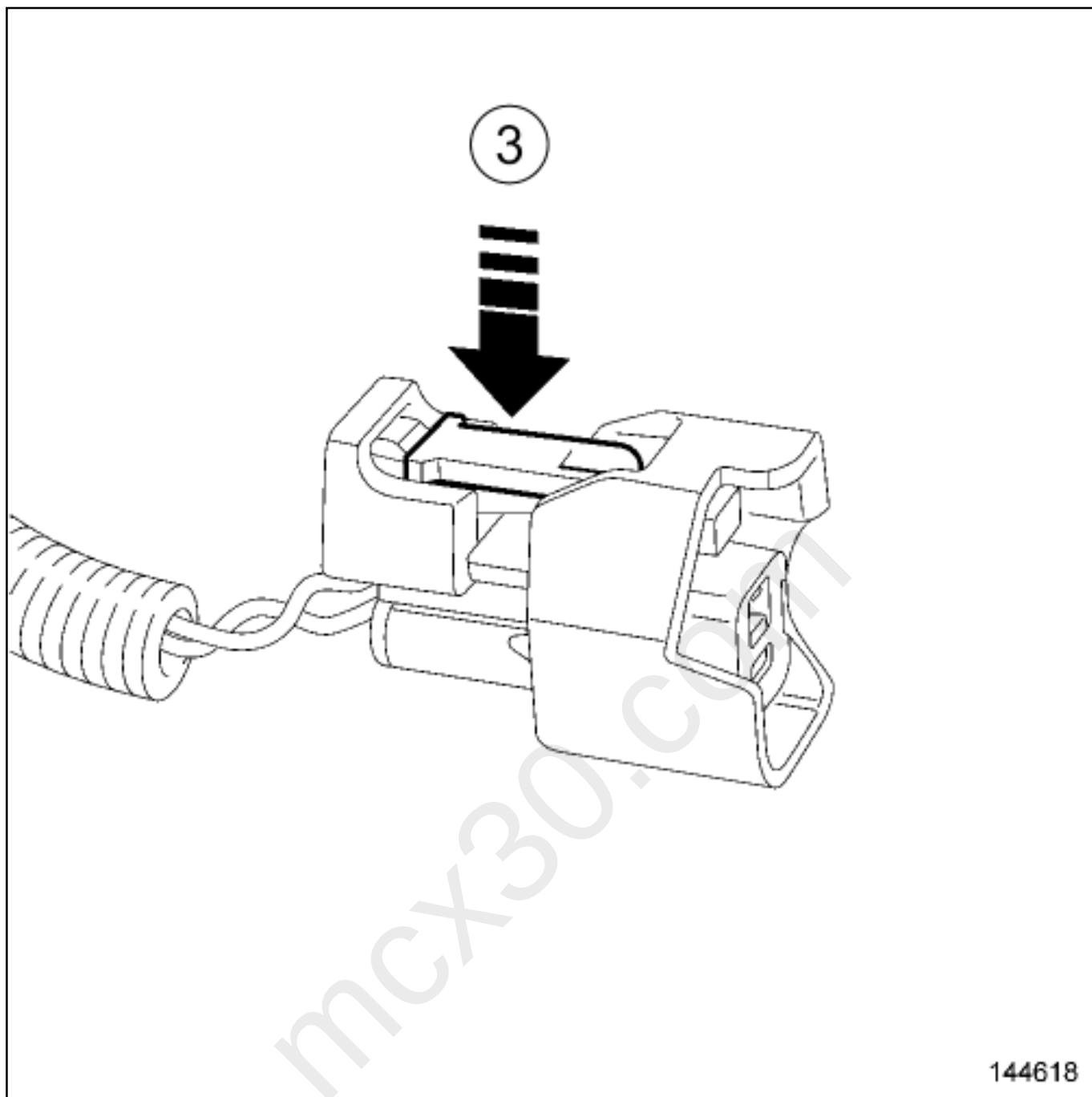
Failure to observe the following procedure could damage the connector.



144573



144619

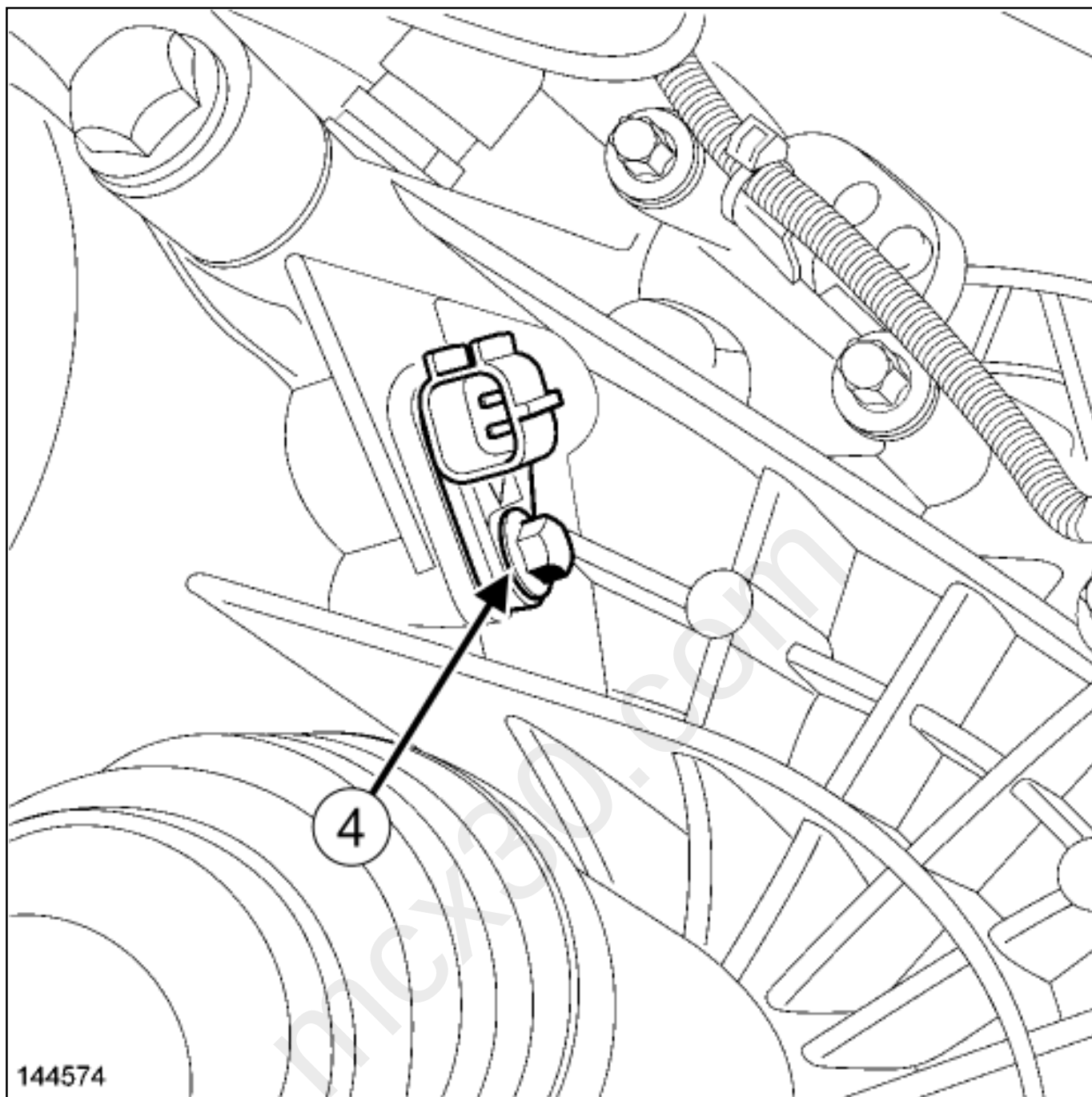


144618

Disconnect the connector(1) of the automatic gearbox third gear speed sensor by:

- unlocking the connector locking system(2) ,

- pressing the tab(3) and pulling the connector.



Remove:



the bolt(4) of the automatic gearbox third gear speed sensor,



the automatic gearbox third gear speed sensor.



Note:

The shaft speed sensor for third gear has a 4 mm thick shim that determines the sensor position in relation to the teeth.

REFITTING

1. REFITTING PREPARATION OPERATION



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean the joint face of:

- the gearbox casing,
- the automatic gearbox third gear speed sensor.



Always replace the seal of the automatic gearbox third gear speed sensor.

2. REFITTING OPERATION



Refit the automatic gearbox third gear speed sensor.



Torque tighten the bolt of the automatic gearbox third gear speed sensor 9 N.m.



Connect the connector of the automatic gearbox third gear speed sensor.



Reclip the connector lock.



Confirm that it is locked by the sound of the "clip" .

3. FINAL OPERATION



Proceed in the reverse order to removal.



Apply the after repair procedure using the Diagnostic tool:



connect the Diagnostic tool,



select "Automatic gearbox computer" ,



go to repair mode,



display the "before/after repair procedure" for the computer selected,



select "Gearbox speed sensor" in the "List of components controlled by this computer" section,



carry out the operations described in the "After repair procedure" section.

REMOVAL

1. REMOVAL PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove the front left-hand wheel [Wheel: Removal - Refitting](#) .

2. REMOVAL OPERATION



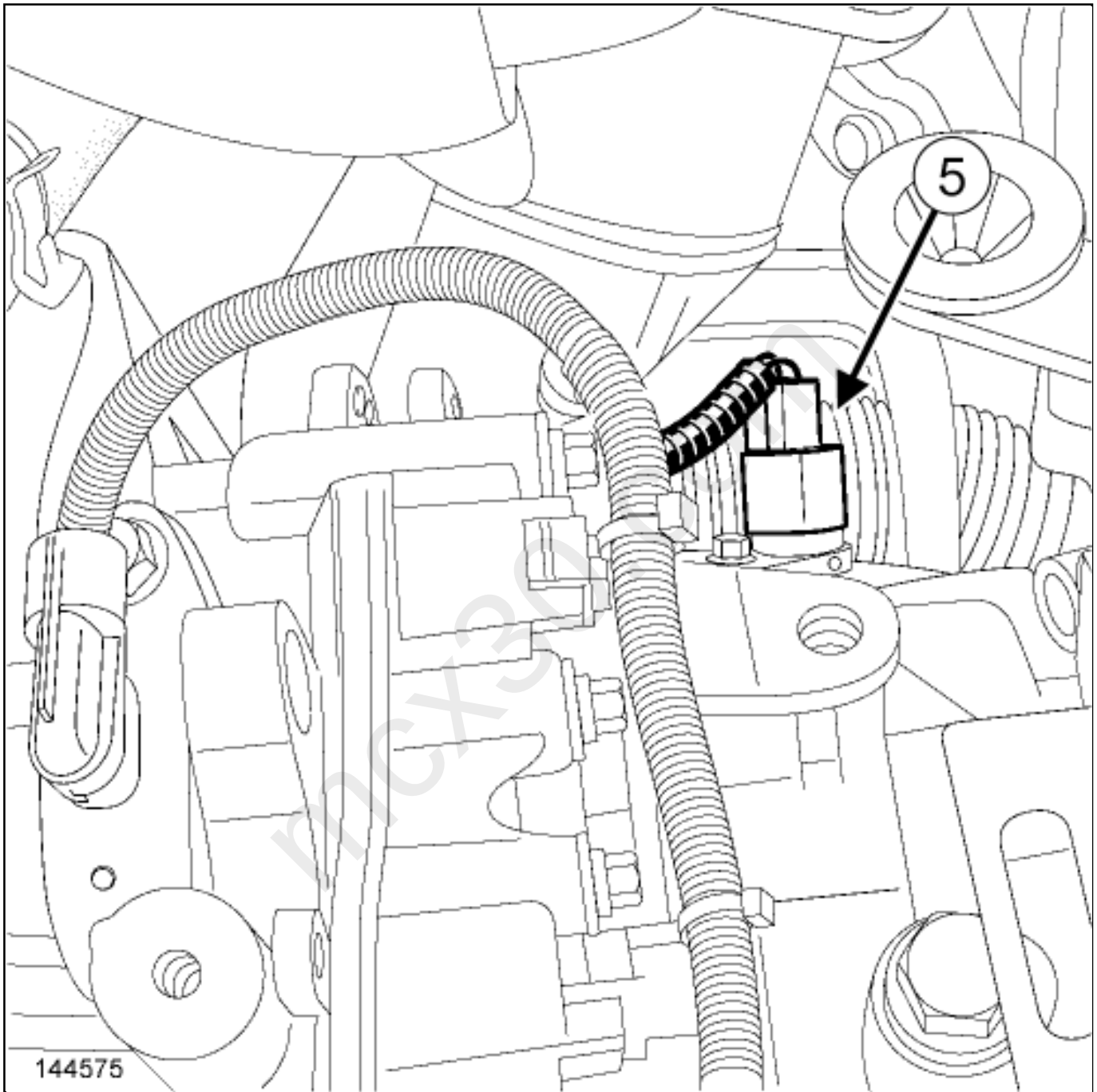
Note:

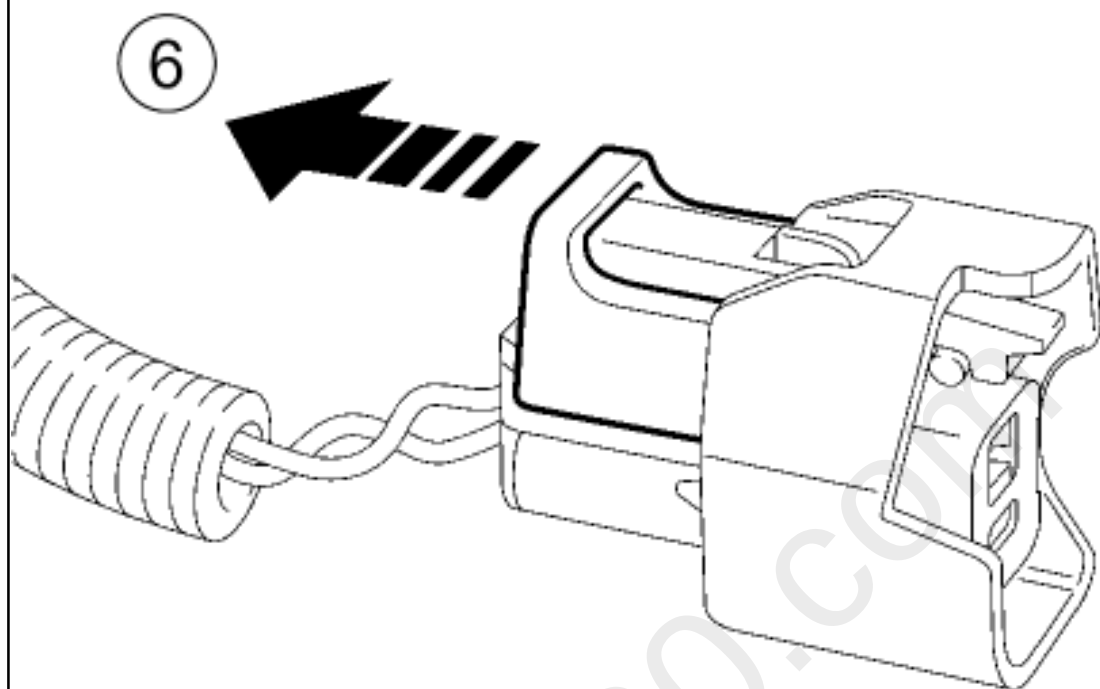
The connectors have a locking system.



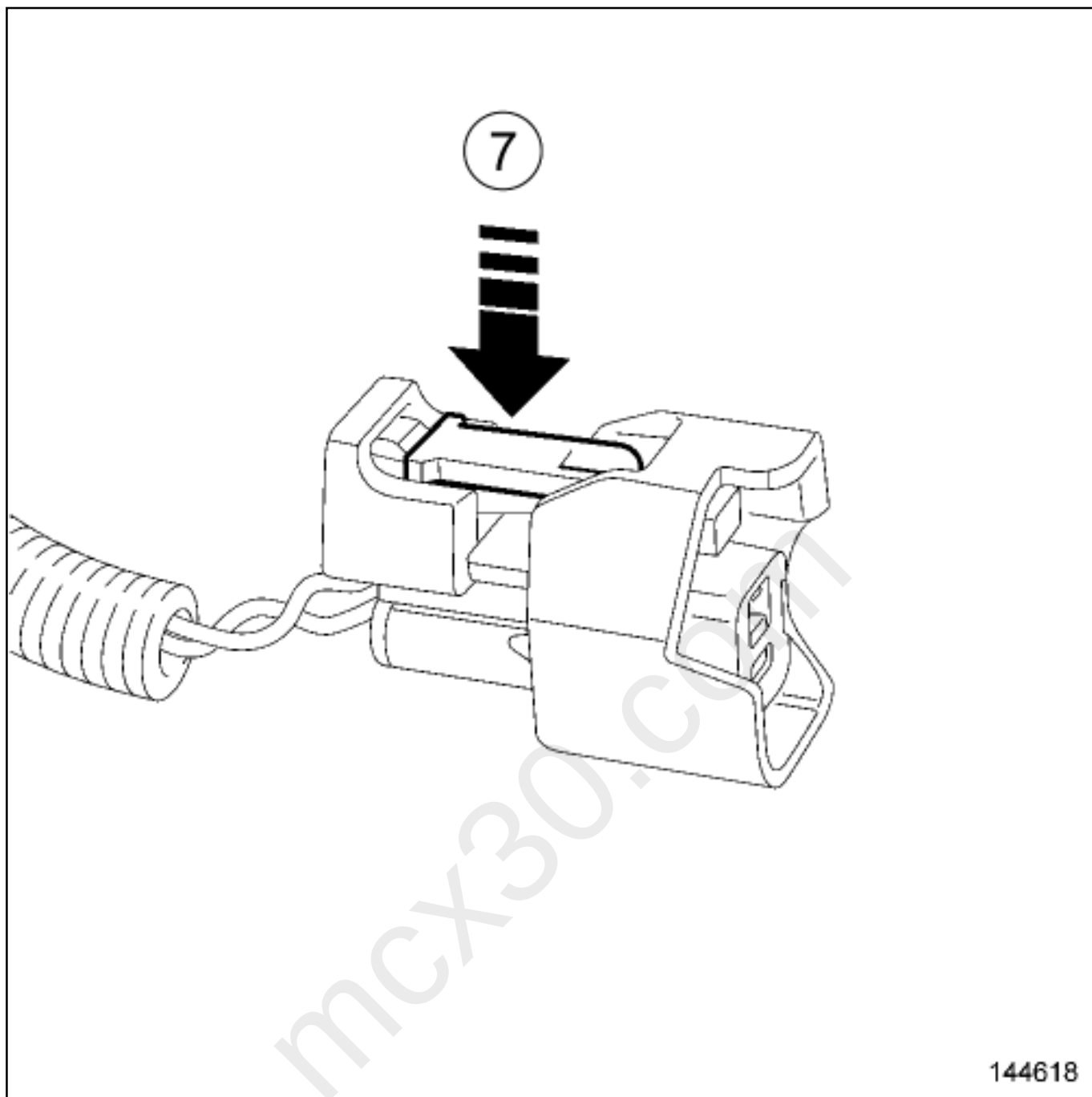
CAUTION

Failure to observe the following procedure could damage the connector.





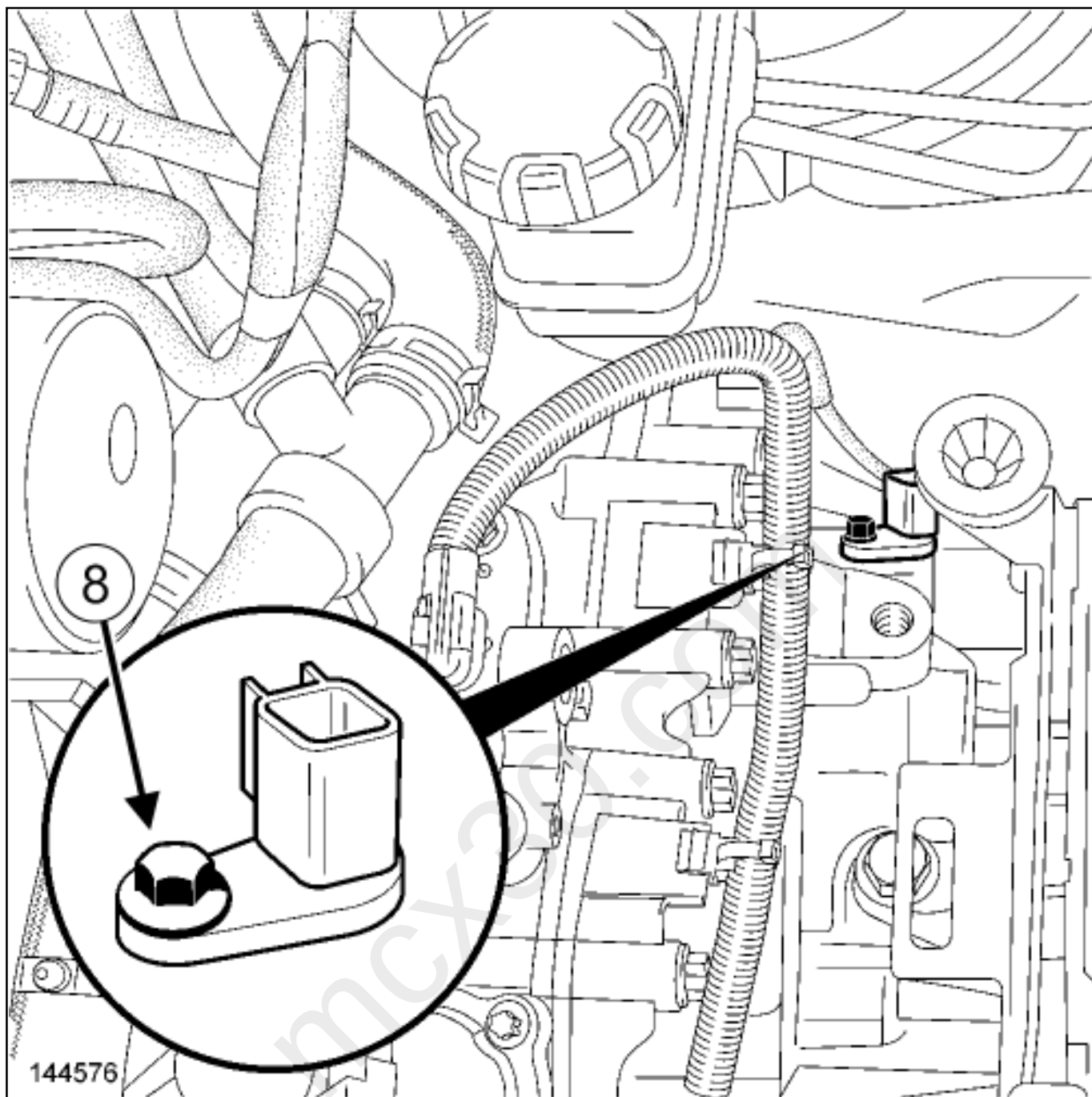
144619



144618

Disconnect the connector(5) of the automatic gearbox fourth gear speed sensor by:

- unlocking the connector locking system(6) ,
- pressing the tab(7) and pulling the connector.



Remove:

- the bolt(8) of the automatic gearbox fourth gear speed sensor,

- the automatic gearbox fourth gear speed sensor.



Note:

The engine speed sensor for fourth gear has a 2 mm thick shim that determines the sensor position in relation to the teeth.

REFITTING

1. REFITTING PREPARATION OPERATION



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean the joint face of:



the gearbox casing,



the automatic gearbox fourth gear speed sensor.



Always replace the seal of the automatic gearbox fourth gear speed sensor.

2. REFITTING OPERATION



Refit the automatic gearbox fourth gear speed sensor.



Torque tighten the bolt of the automatic gearbox fourth gear speed sensor 9 N.m.



Connect the connector of the automatic gearbox fourth gear speed sensor.



Reclip the connector lock.



Confirm that it is locked by the sound of the "clip" .

3. FINAL OPERATION



Proceed in the reverse order to removal.



Apply the after repair procedure using the Diagnostic tool:

- - connect the Diagnostic tool,
 - select "Automatic gearbox computer" ,
 - go to repair mode,
 - display the "before/after repair procedure" for the computer selected,
 - select "Gearbox speed sensor" in the "List of components controlled by this computer" section,
 -
- carry out the operations described in the "After repair procedure" section.

REMOVAL

1. REMOVAL PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove the engine undertray.

2. REMOVAL OPERATION



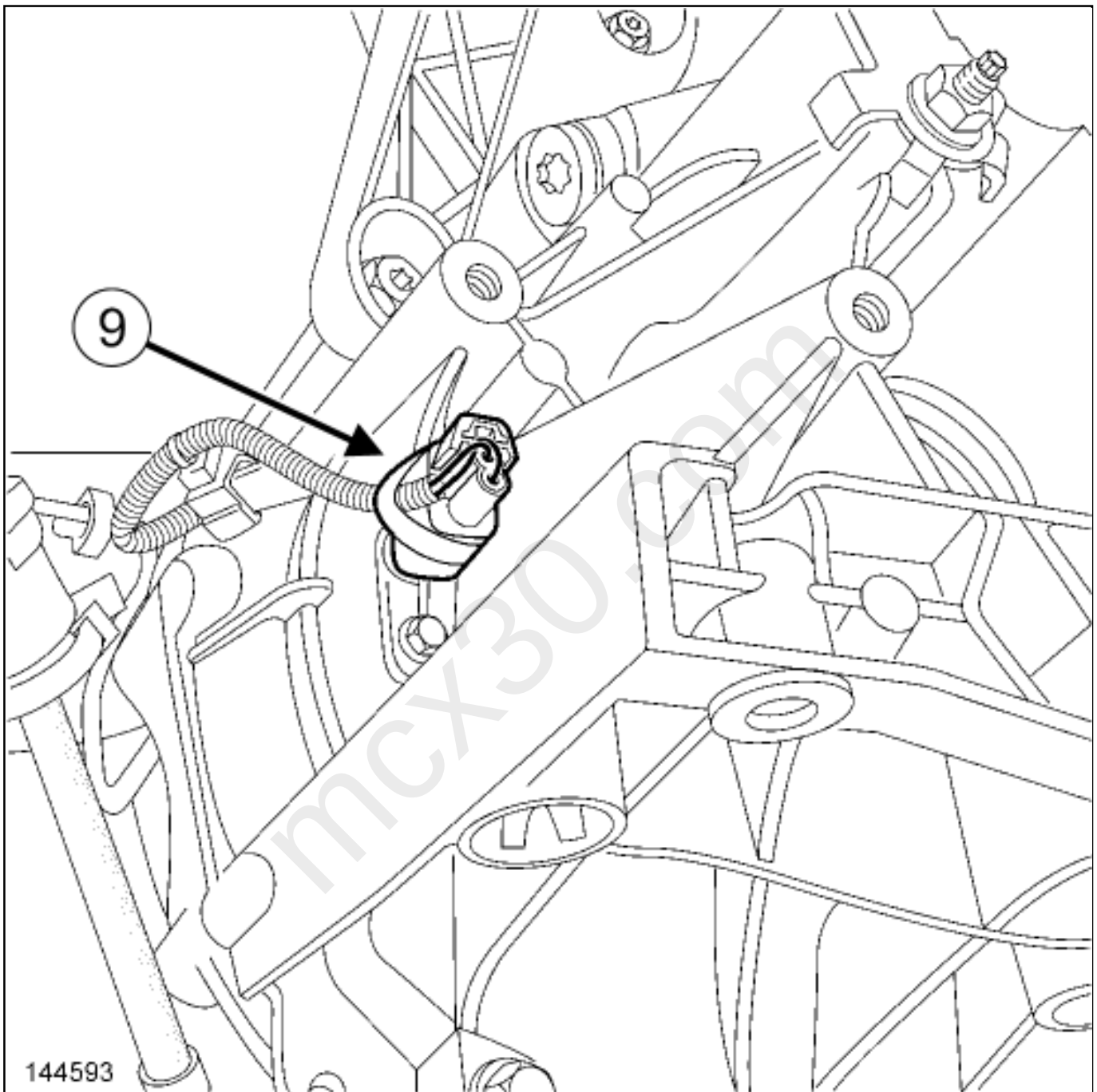
Note:

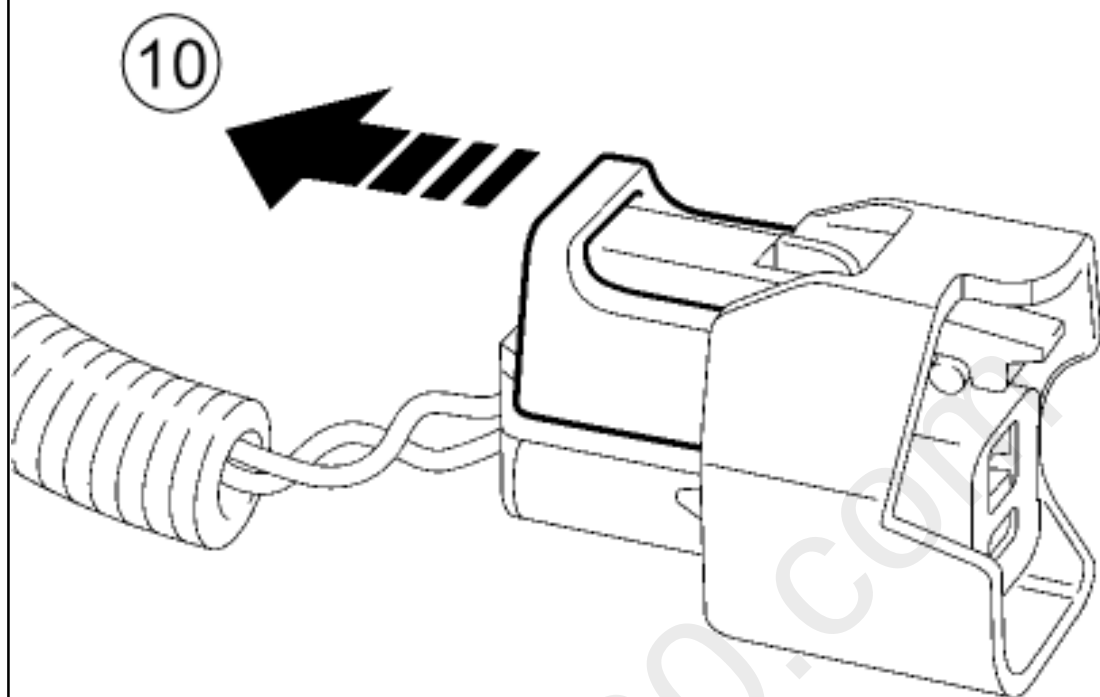
The connectors have a locking system.



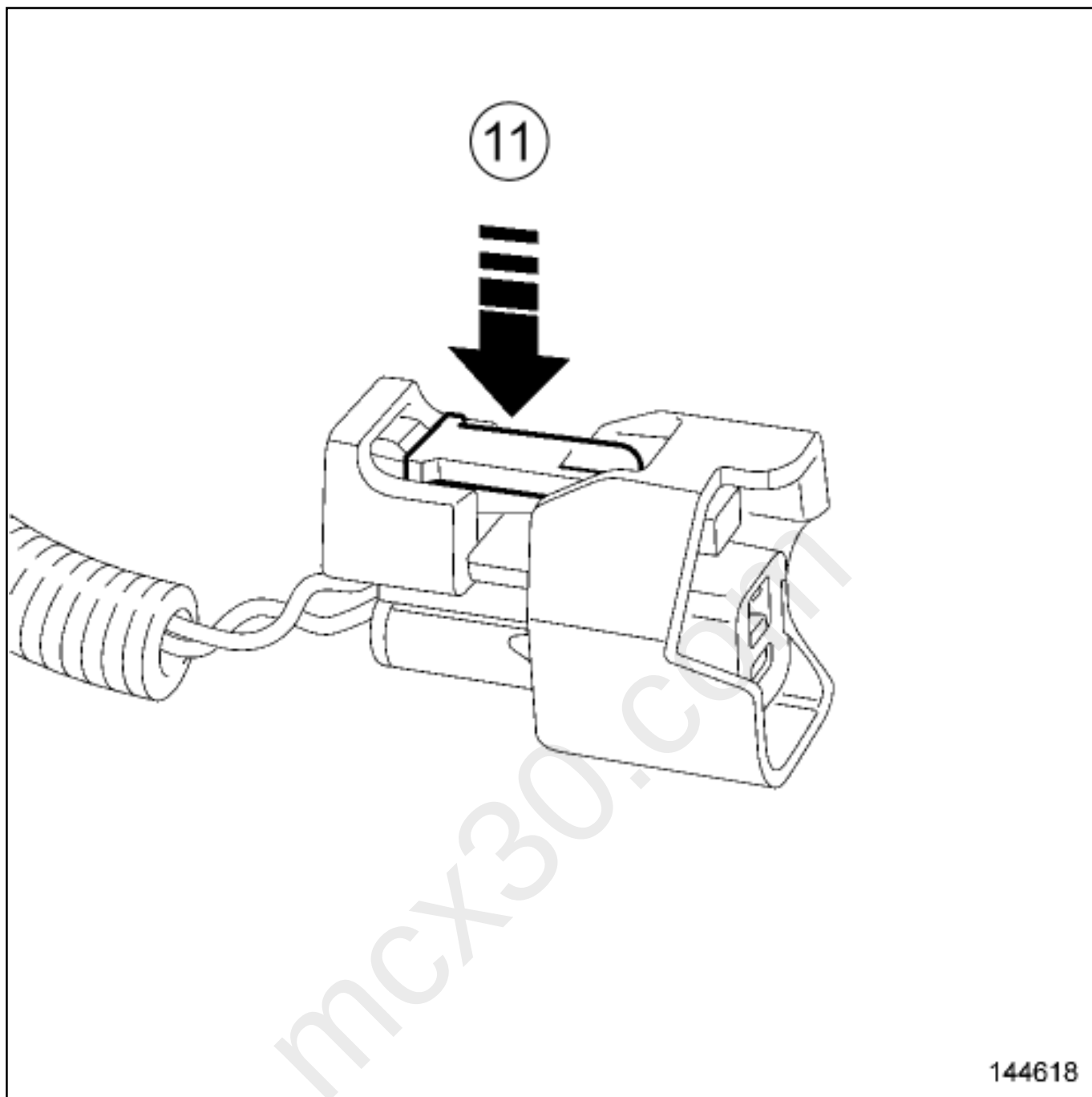
CAUTION

Failure to observe the following procedure could damage the connector.





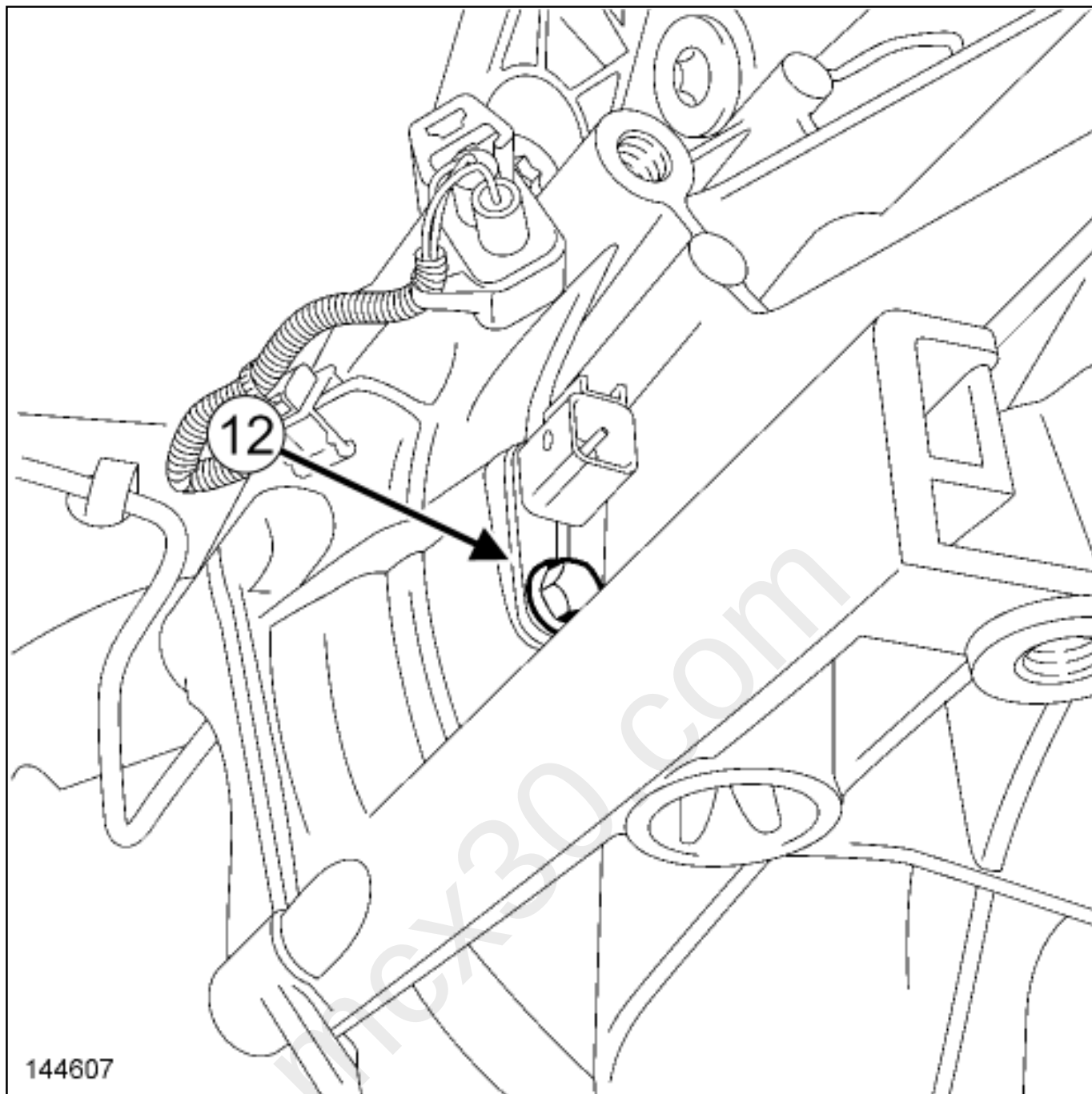
144619



Disconnect the connector(9) of the automatic gearbox differential speed sensor by:

- unlocking the connector locking system(10),
- pressing the tab(11) and pulling the connector.

Fit an oil recovery tray for the outflow of gearbox oil.



Remove:



the bolt(12) of the automatic gearbox differential speed sensor,



the automatic gearbox differential speed sensor.



Note:

There is no shim for the differential speed sensor.

REFITTING

1. REFITTING PREPARATION OPERATION



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean the joint face of:

- the gearbox casing,
- the automatic gearbox differential speed sensor.



Always replace the seal of the automatic gearbox differential speed sensor.

2. REFITTING OPERATION



Refit the automatic gearbox differential speed sensor.



Torque tighten the bolt of the automatic gearbox differential speed sensor 9 N.m.



Connect the connector of the automatic gearbox differential speed sensor.



Reclip the connector lock.



Confirm that it is locked by the sound of the "clip" .