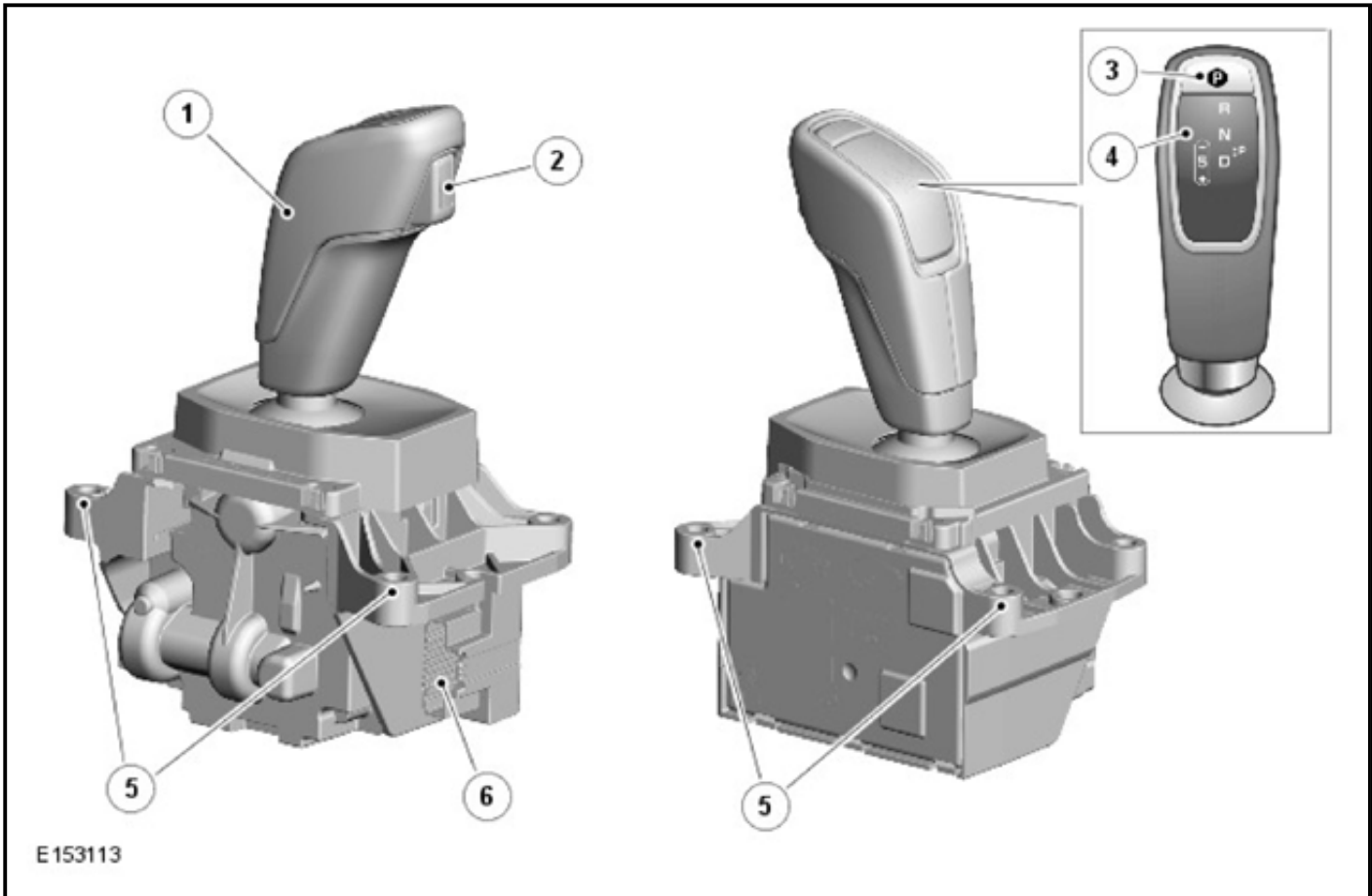


## TRANSMISSION

### Automatic Transmission/Transaxle External Controls - V8 S/C 5.0L Petrol - F-Type/X152

#### TRANSMISSION CONTROL SWITCH (TCS)



ITEM	DESCRIPTION
1	Lever
2	Unlock trigger
3	Park 'P' switch
4	LED (Light Emitting Diode) display
5	Mounting holes
6	Electrical connector

The TCS is a linear selector installed in the top of the floor console. It is secured with four screws and has one electrical connector for all electrical inputs and outputs.

The TCS is connected on the HS CAN Powertrain bus to the TCM and other system modules. The TCS receives a permanent fused battery supply via the BJB (Battery Junction Box) and the EJB (Engine Junction Box) and an ignition supply via the ignition relay in the CJB (Central Junction Box). The TCS outputs a 'P'/'N' signal on a hard wired connection to the ECM and the CJB. It also receives a hard wired park engaged signal from the TCM.

By selecting 'P', 'R' (Reverse), 'N', 'D' or 'S' on the TCS, the transmission functions as any conventional automatic unit.

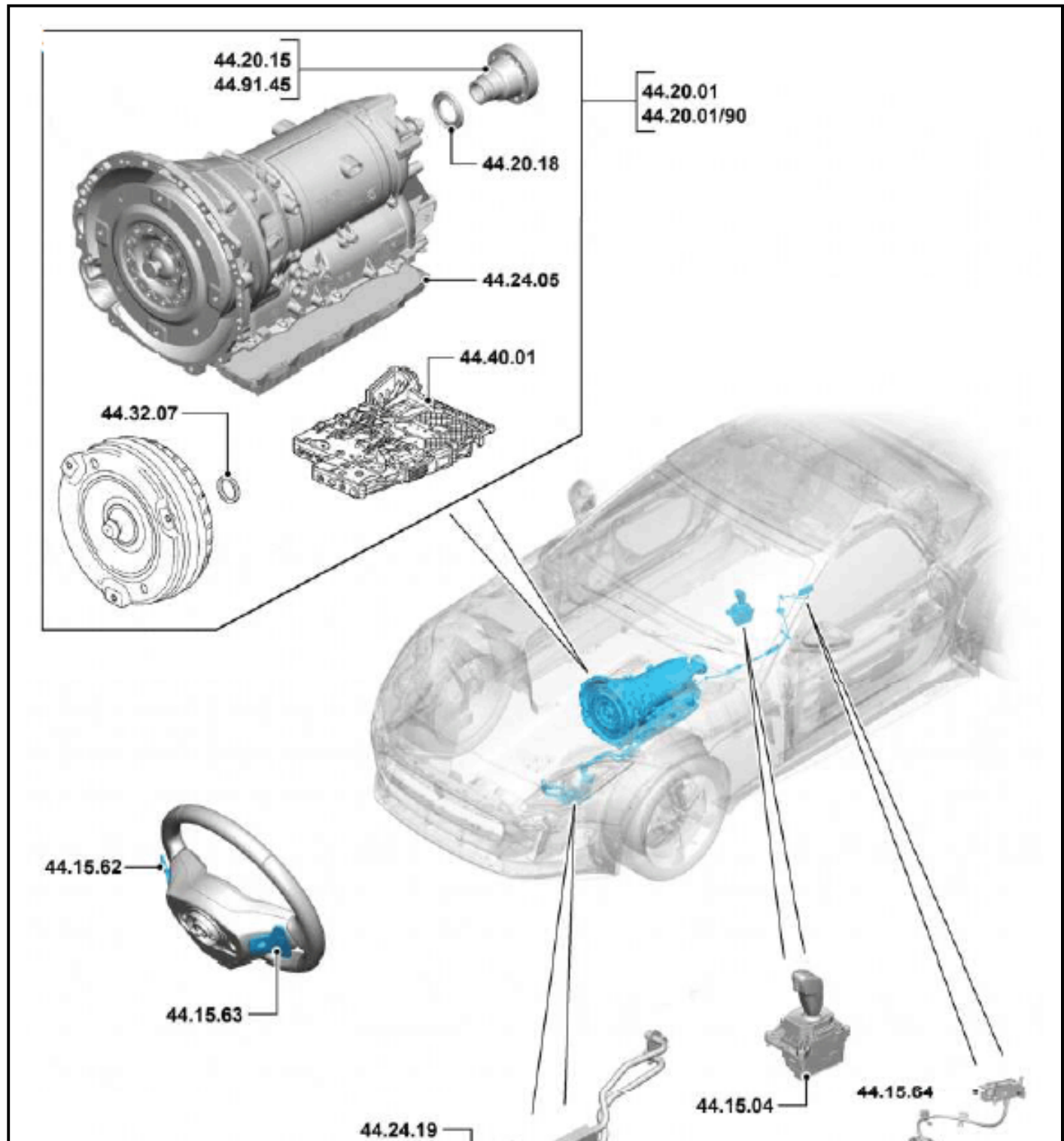
Movement of the TCS to any of the four positions or operation of the 'P' switch is sensed by the TCS. The sensed position is passed to the TCM via the HS CAN Powertrain bus. The TCM then reacts according to the new selection request made by the driver. The linear movement of the TCS is sensed by a magnetic system using multiple Hall effect sensors to determine the position of the selector. The TCS 'P' park and the unlock trigger use double pole pill switches.

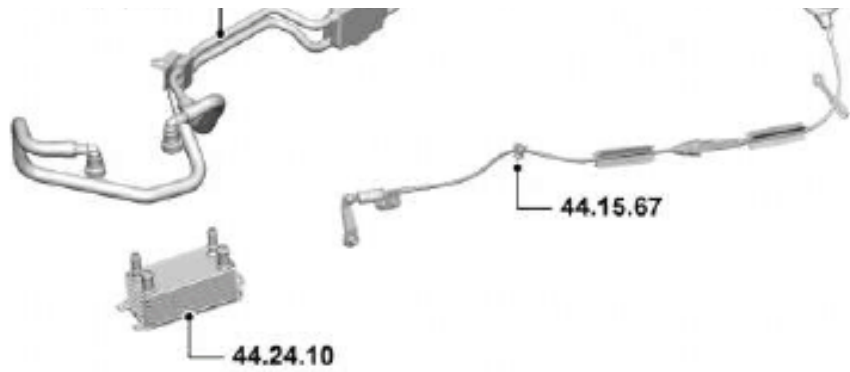
The 'S' position selection allows the TCM to operate the transmission using the semi-automatic Jaguar sequential shift. Gear selections are sensed by the TCM when the driver operates the steering wheel paddle switches or moves the TCS to the '+' or '-' positions. The TCS allows the driver to operate the transmission similar to a sequential transmission. Once the TCS position is confirmed, the TCM outputs appropriate information on the HS CAN Powertrain bus which is received by the Instrument Cluster (IC) to display the gear selection information in the message center.

The paddles can also be used on a temporary basis when the TCS is in the 'D' position to override the automatic gear selection if required.

### TRANSMISSION CONTROL SWITCH (TCS) (G1579267)

44.15.04	HAND SELECTOR LEVER ASSEMBLY - RENEW	ALL DERIVATIVES	0.4
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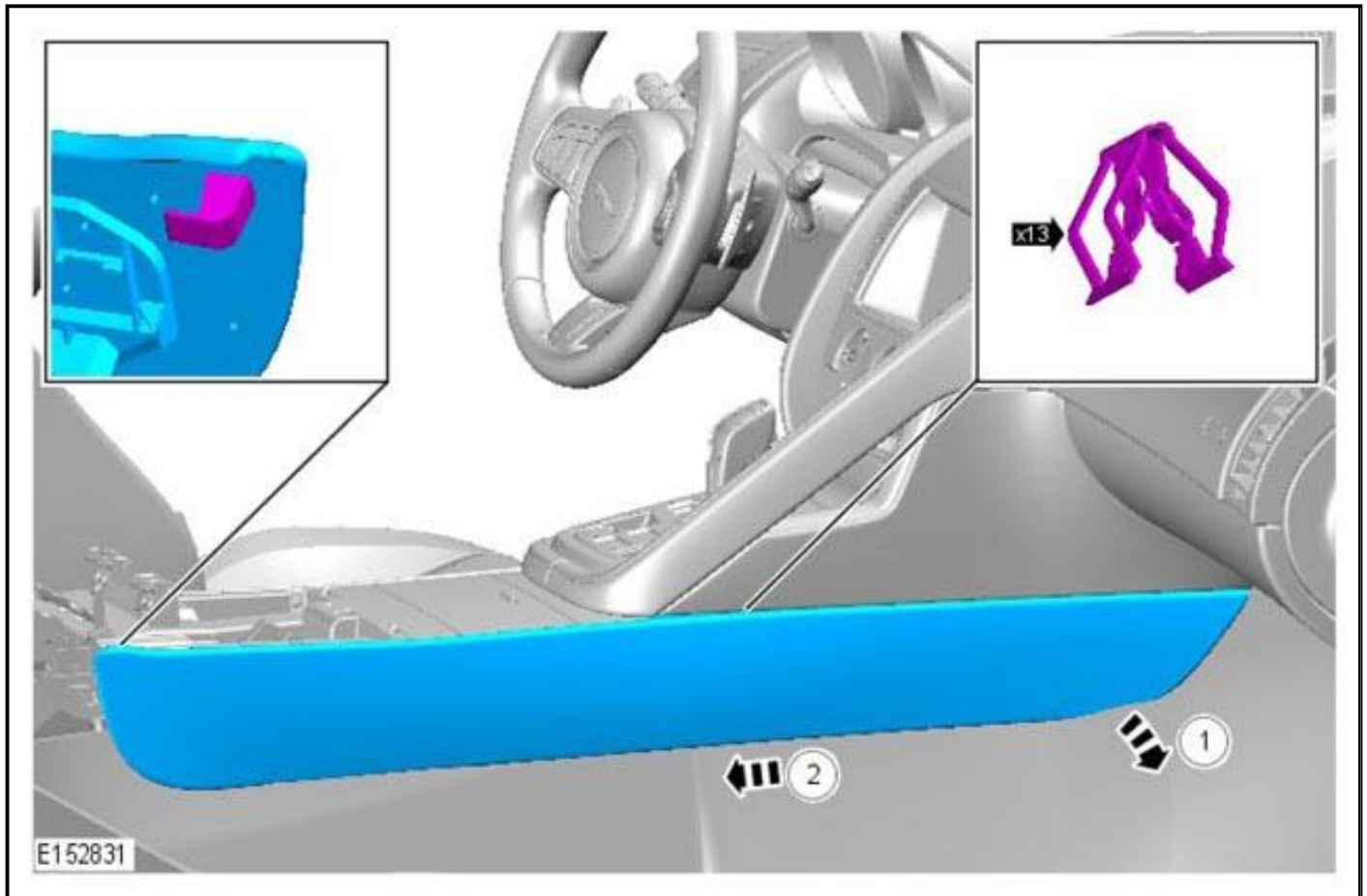
## REMOVAL

**NOTE:** Removal steps in this procedure may contain installation details.

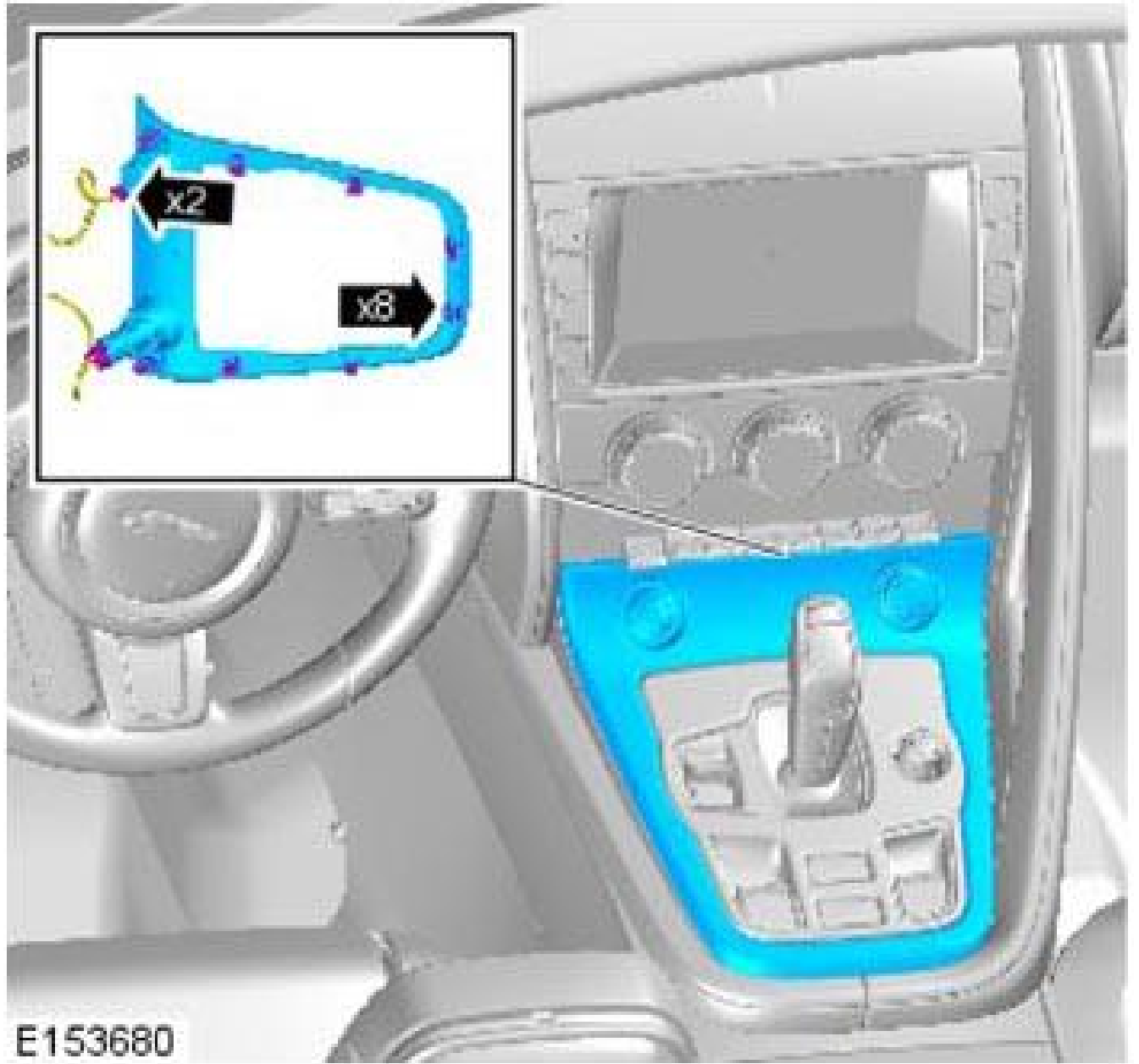
1. **NOTE:** Repeat the procedure for the other side.

Refer to: [Front Seat - Vehicles With: Sports Seats](#) (Removal and Installation).

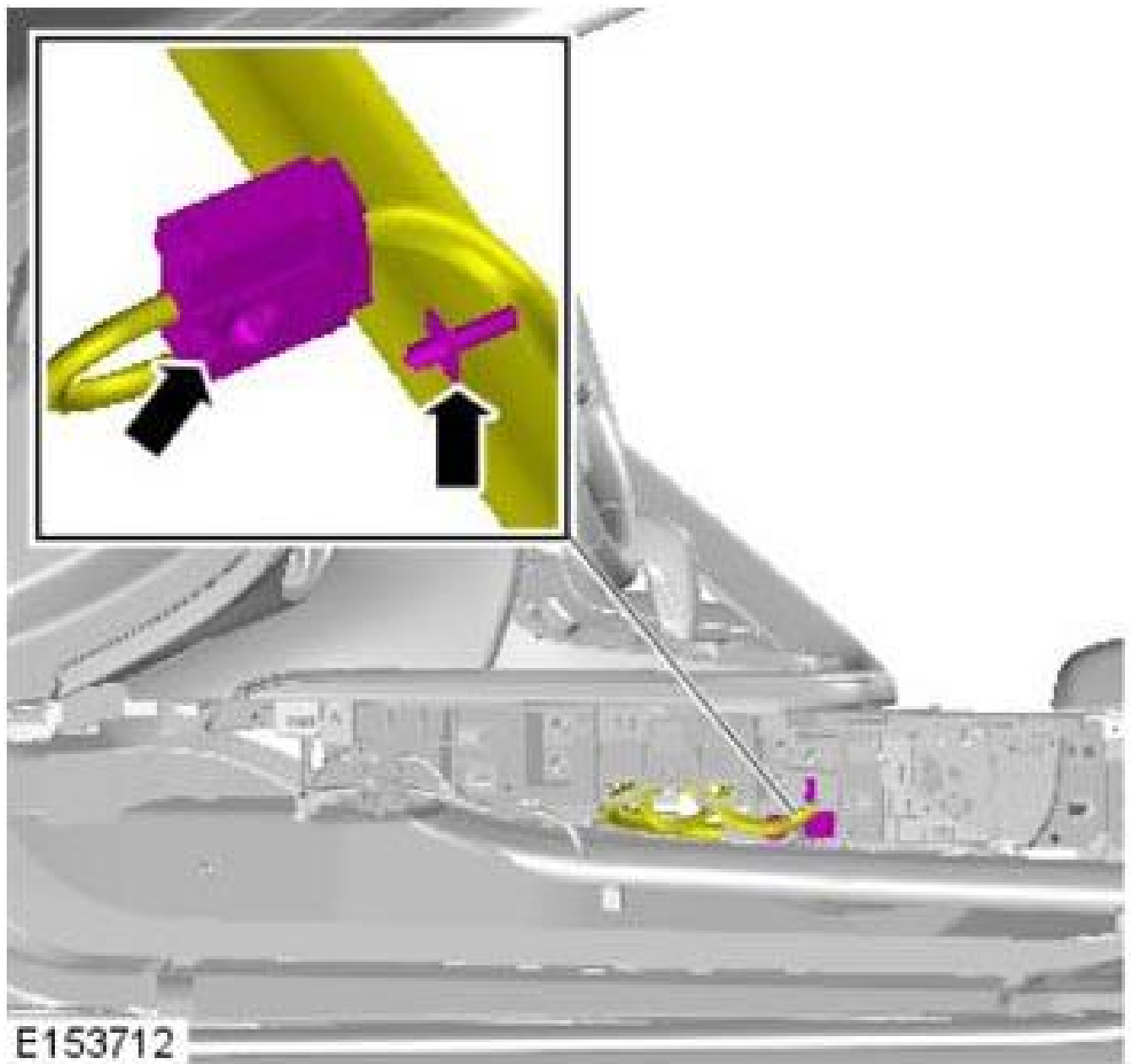
2. **NOTE:** Repeat the procedure for the other side.



- 3.

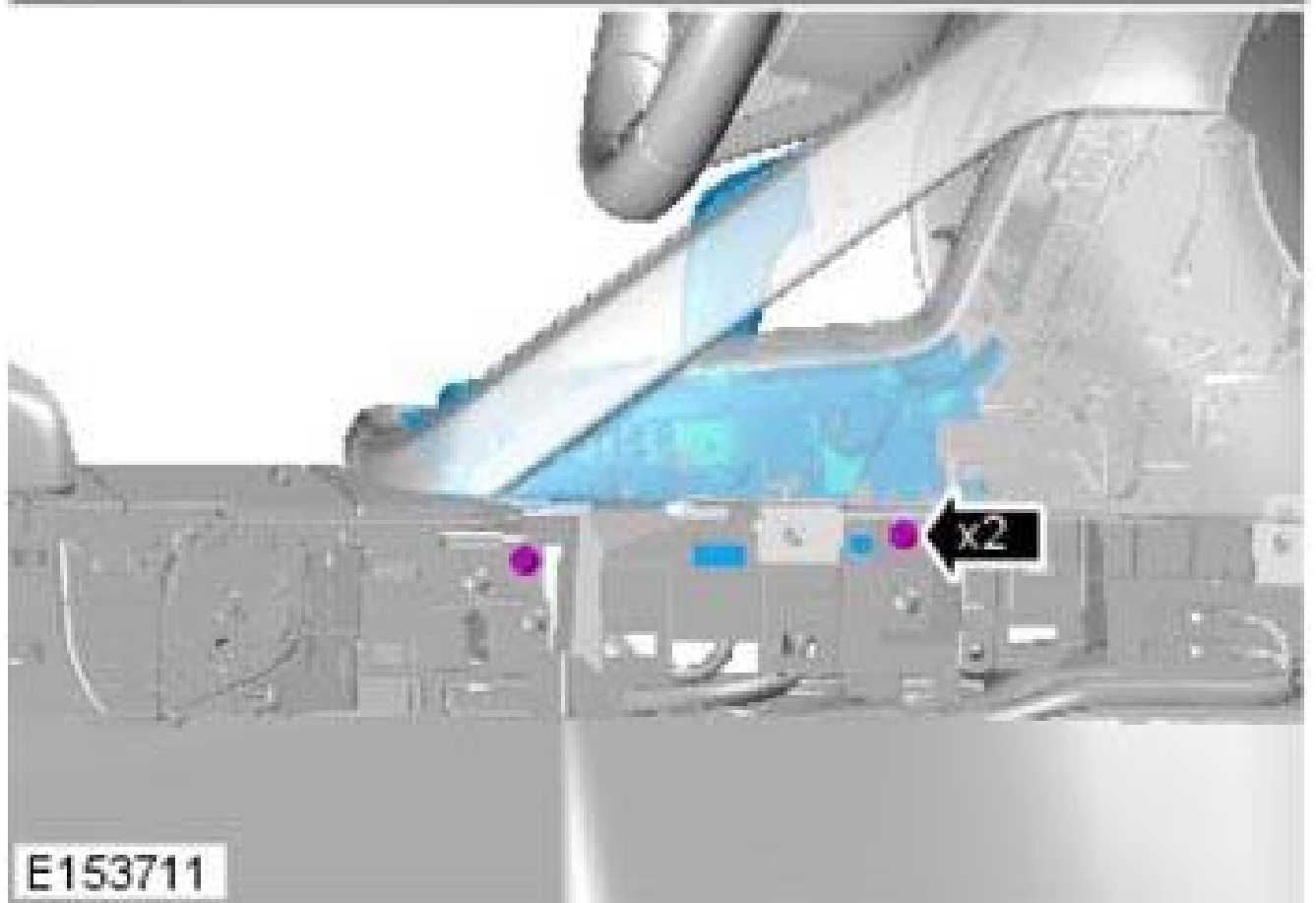
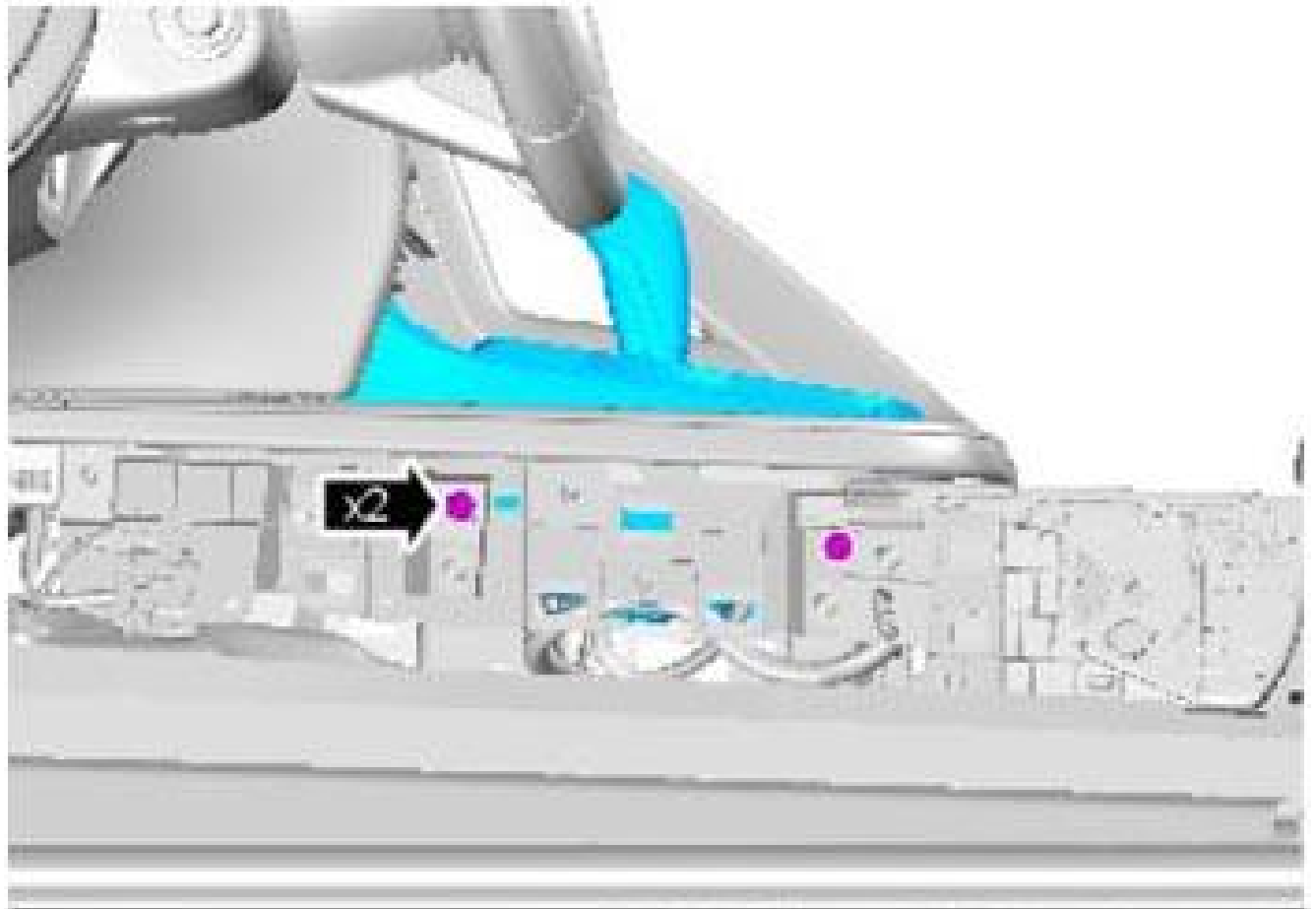


4.



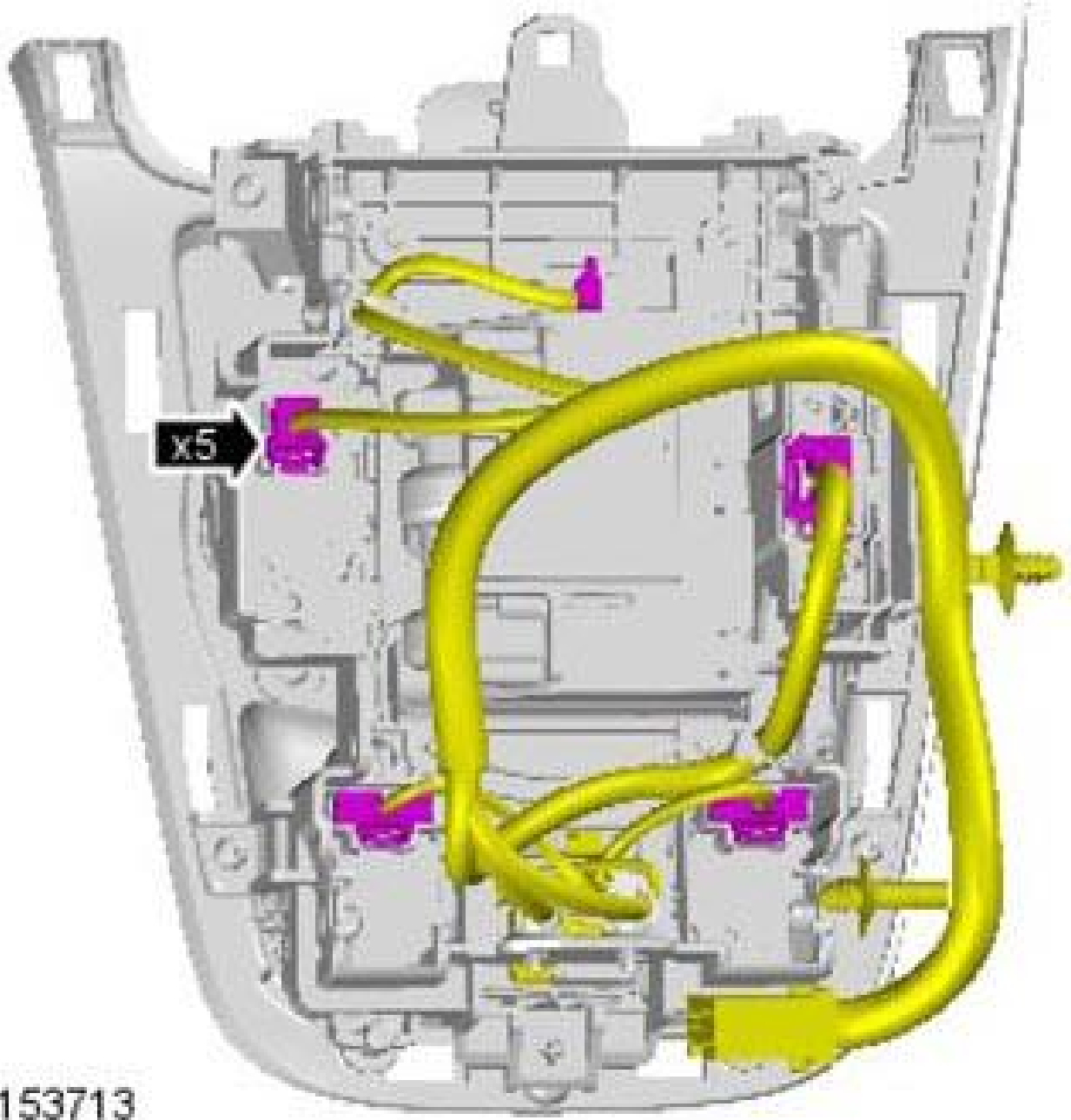
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5.



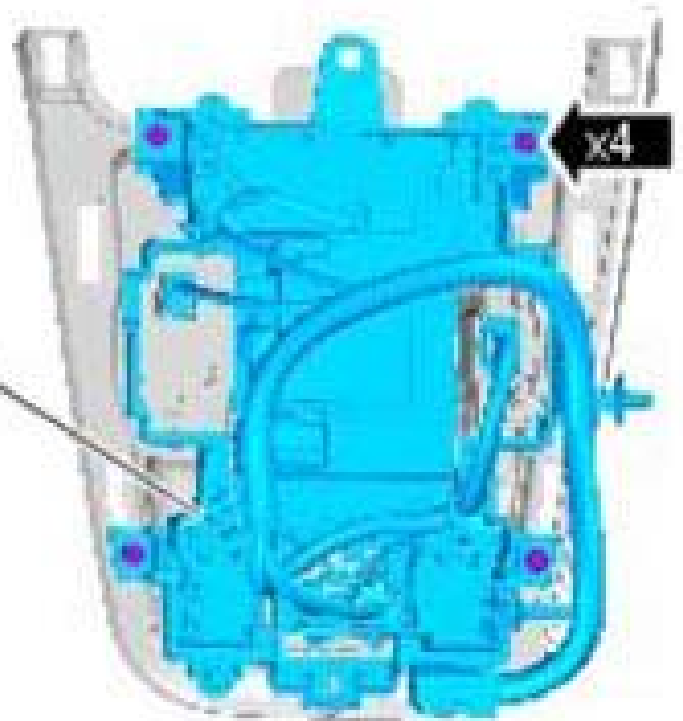
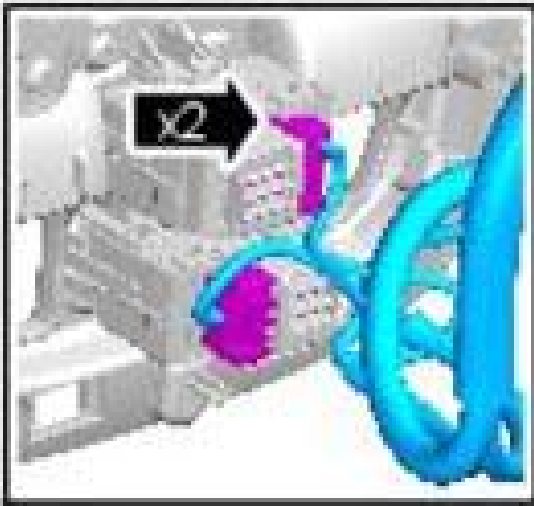
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6.



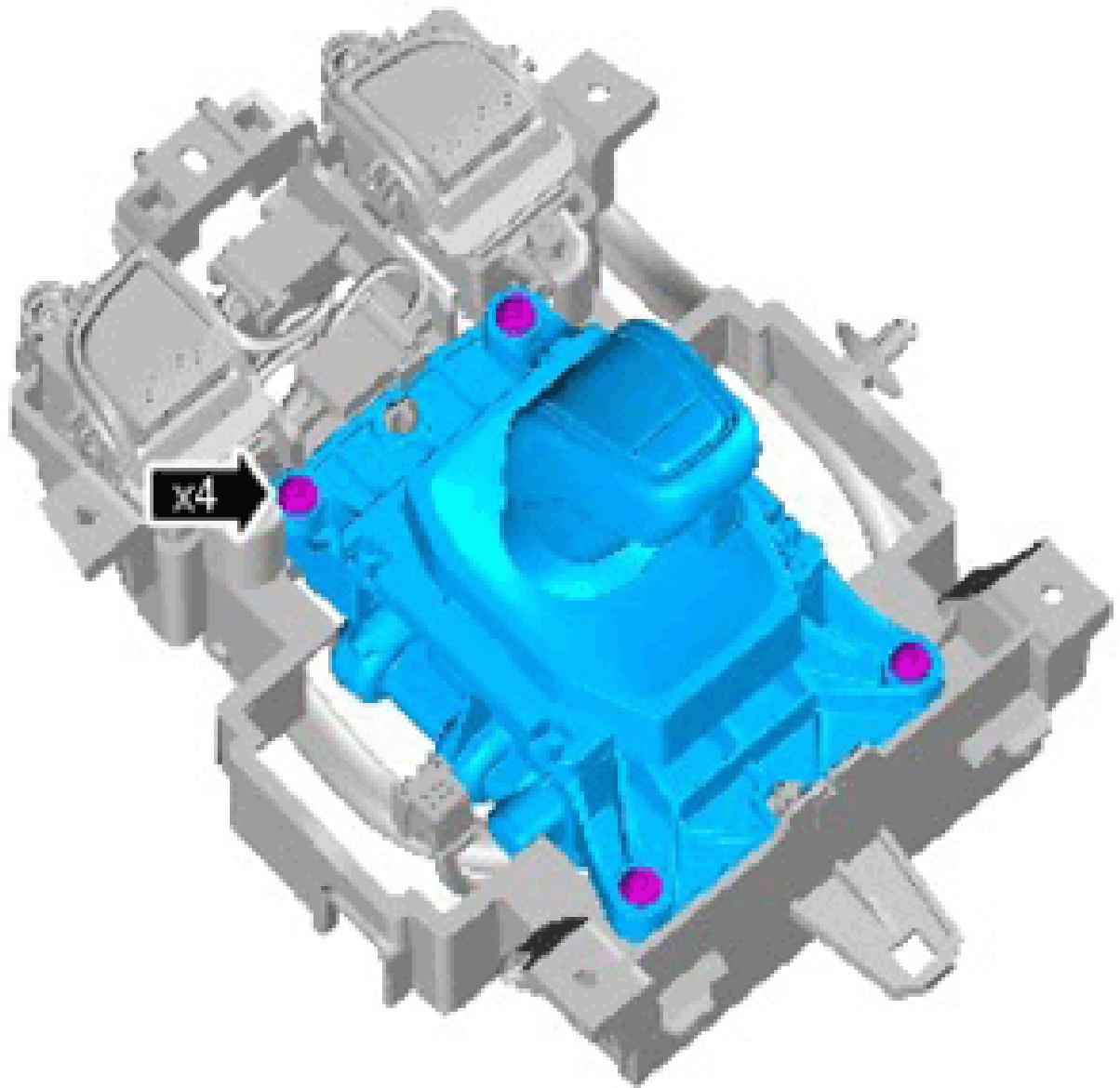
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7.



E153710





E153714

#### INSTALLATION

1. To install, reverse the removal procedure.