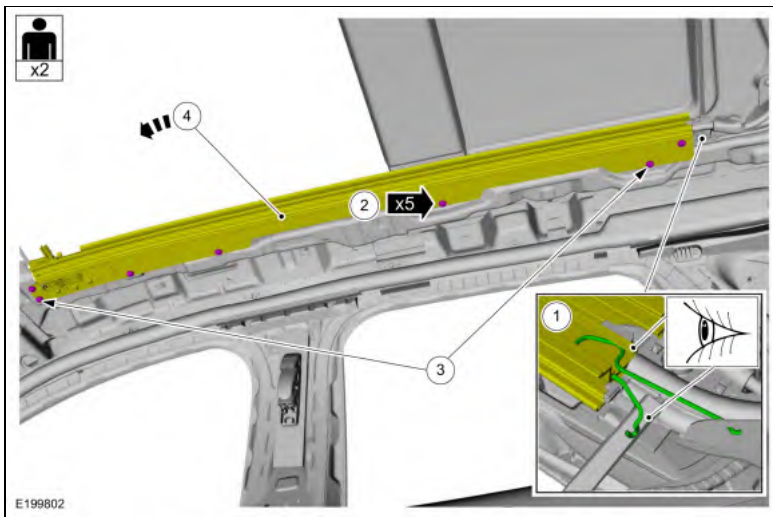
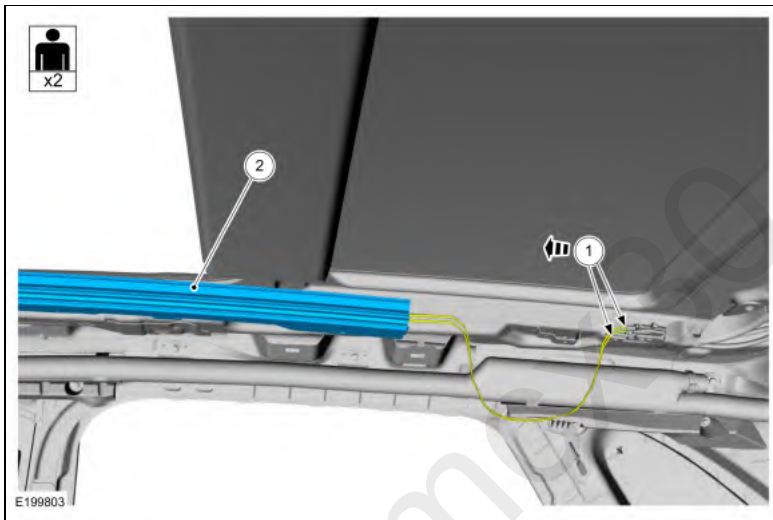




10. RH side only.

With the help of an assistant, remove the main track assembly.

1. Flex the drive cables as necessary and pull out of the roof opening panel motor block and drive tube assembly.
2. Remove the main track assembly.

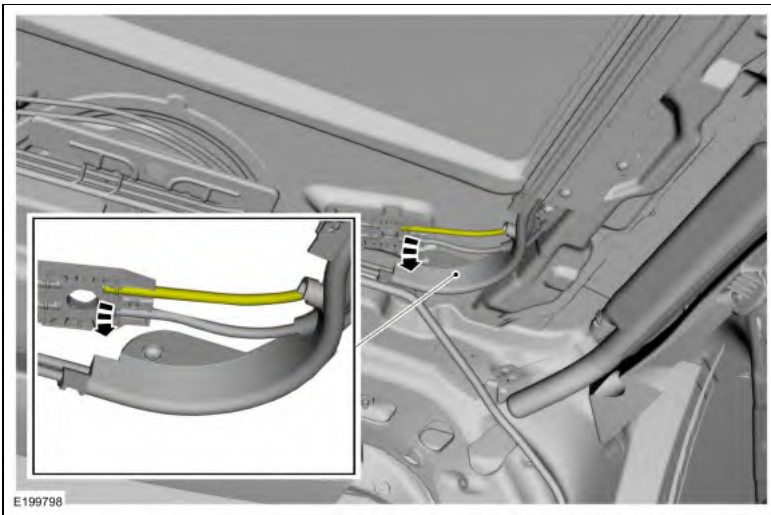


11. **NOTE:** Lower the cable return tube from the motor block only enough to fully release from the motor block.

The cable return tube remains clipped in the main track when removing. A new LH main track assembly is serviced with a new cable return tube attached.

LH side only.

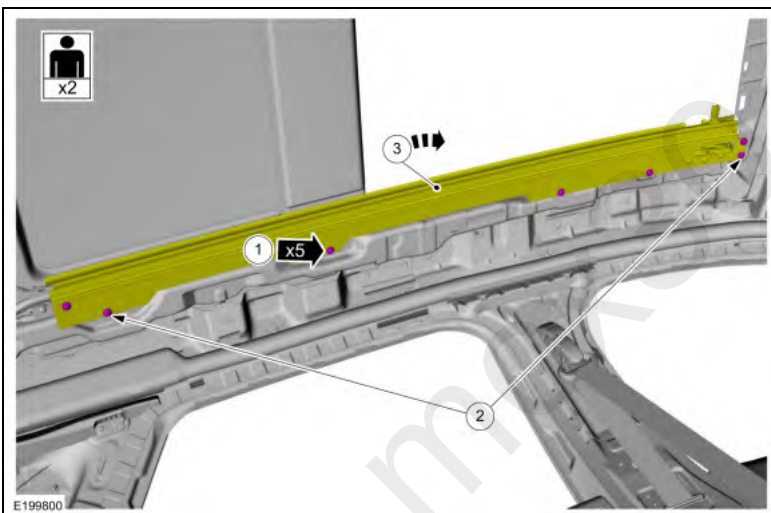
Disconnect the cable return tube from the roof opening panel motor block and drive tube assembly.



12. LH side only.

With the help of an assistant, disconnect the main track assembly from the roof opening panel motor block and tube assembly.

1. Remove the 5 main track assembly retainers.
2. Remove the 2 main track assembly alignment retainers.
3. Pull the main track assembly from the roof opening panel motor block and tube assembly exposing the drive cables.

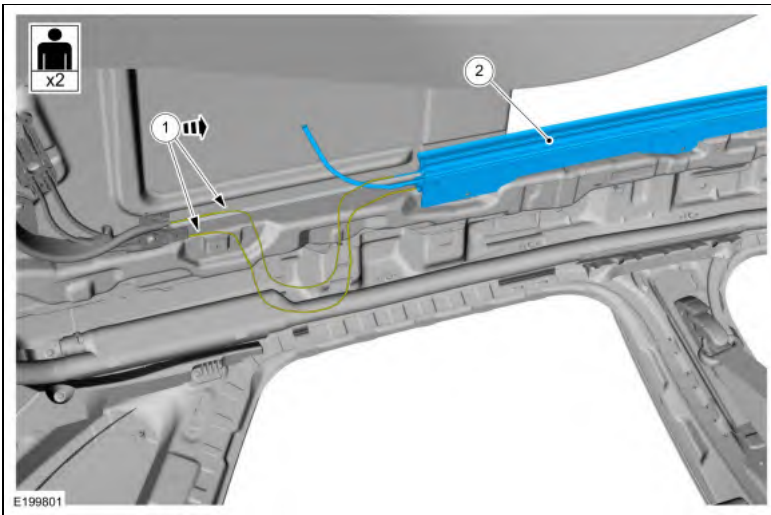


13. **NOTE:** The drive cables and mechanisms should not be removed from the main track assembly. A new main track assembly is serviced with the drive cables and mechanisms installed.

LH side only.

With the help of an assistant, remove the main track assembly.

1. Flex the drive cables as necessary and pull out of the roof opening panel motor block and drive tube assembly.
2. Remove the main track assembly.

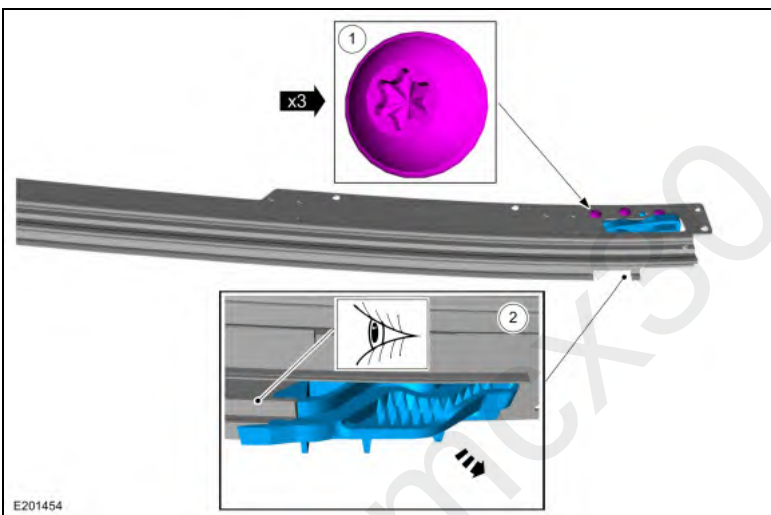


14. **NOTE:** LH shown, RH side similar.

If servicing the front cam.

Remove the main track assembly front cam.

1. Remove the main track assembly front cam retainers.
2. Note the position of the main track assembly front cam on the underside of the main track assembly and remove the main track assembly front cam.



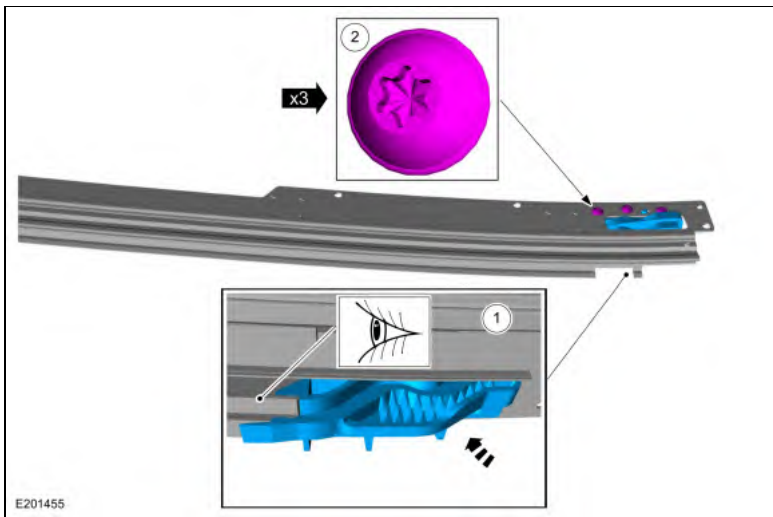
Installation

1. **NOTE:** LH shown, RH side similar.

If servicing the front cam.

Install the main track assembly front cam.

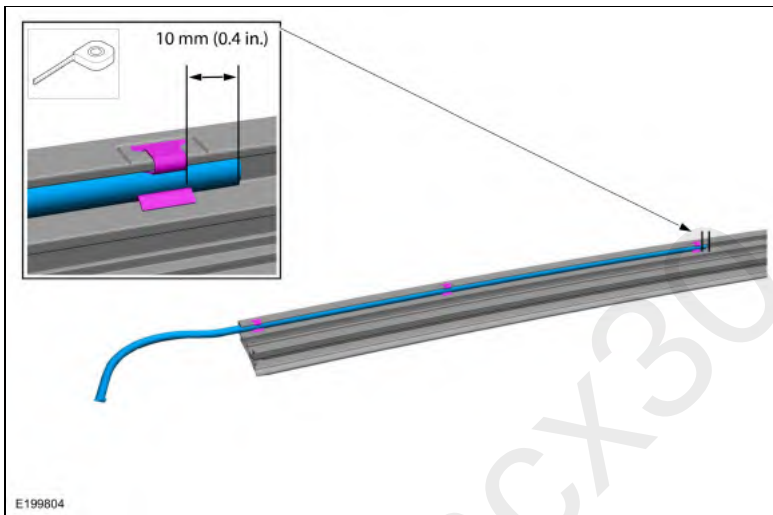
1. Position the main track assembly front cam on the underside of the main track assembly.
2. Install the main track assembly front cam retainers
Torque: 40 lb.in (4.5 Nm)



2. **NOTICE:** The return tube must remain fully clipped in the main track assembly or interference with the drive cable mechanism may occur.

LH side only. If the cable return tube separates from the main track assembly.

Install the end of the cable return tube 10 mm (0.4 in.) in front of the forward retaining clip.



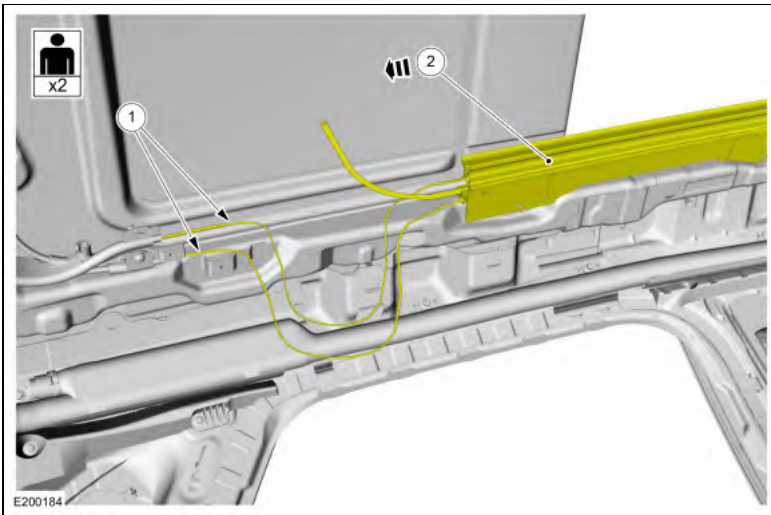
3. LH side only.

With the help of an assistant, position the main track assembly for installation.

1. Both drive cables.

Feed the drive cables into the matching holes in the roof opening panel motor block and drive tube assembly.

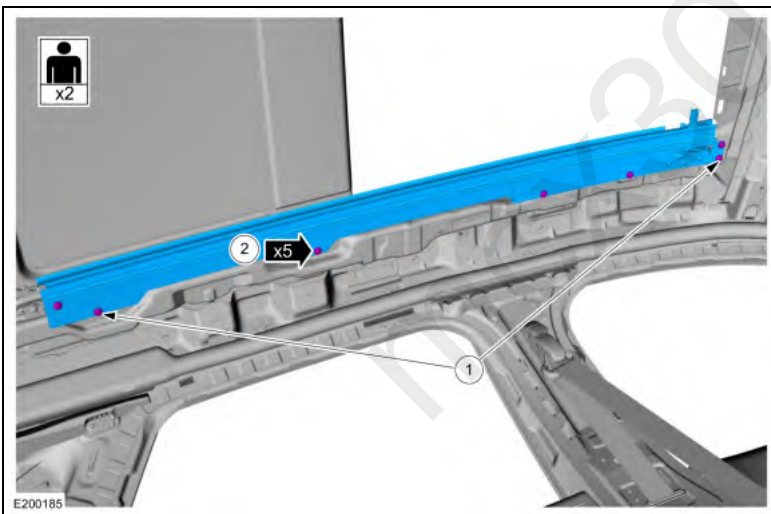
2. Move the main track assembly rearward and position on the roof opening panel motor block and drive tube assembly.



4. LH side only.

With the help of an assistant, install the main track assembly.

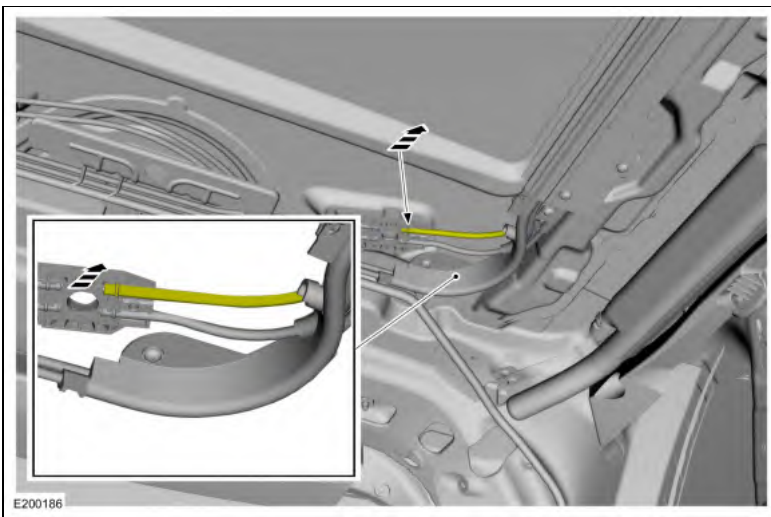
1. Install the 2 main track assembly alignment retainers.
Torque: 62 lb.in (7 Nm)
2. Install the 5 main track assembly retainers.
Torque: 62 lb.in (7 Nm)



5. **NOTE:** Make sure the return tube snaps properly into position on the roof opening panel motor block.

LH side only.

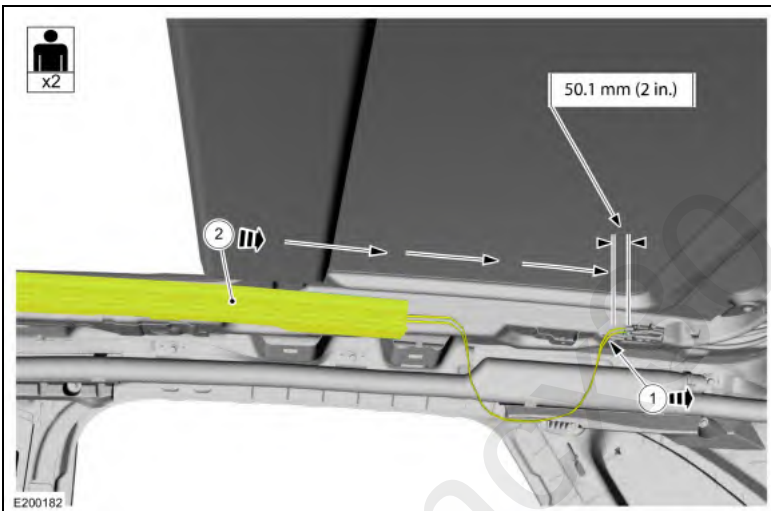
Snap the return tube into the roof opening panel motor block.



6. RH side only.

With the help of an assistant, position the main track assembly for installation.

1. Both drive cables.
Feed the drive cables into the matching holes in the roof opening panel motor block and drive tube assembly.
2. Position the main track assembly approximately 50.8 mm (2 in.) from the final position on the roof opening panel motor block and drive tube assembly.



7. RH side only.

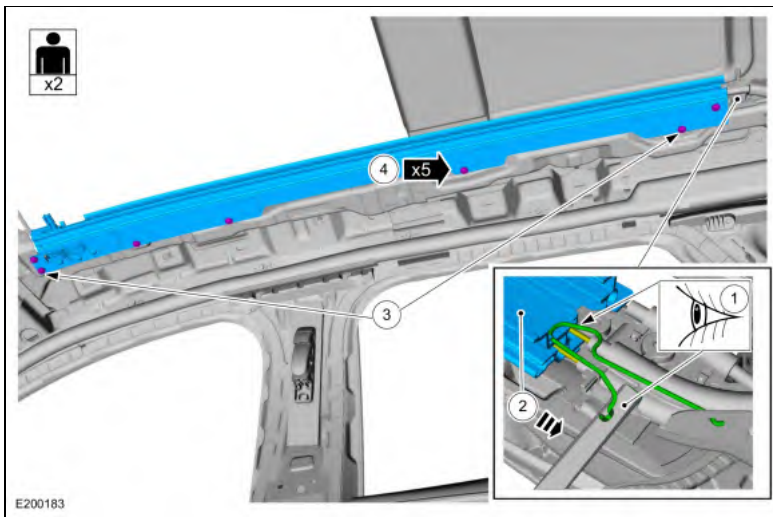
With the help of an assistant, install the main track assembly.

1. **NOTE:** Inset view is from above the vehicle for clarity.

The ESD wire must be positioned properly in the track assembly and on the shield tension bar.

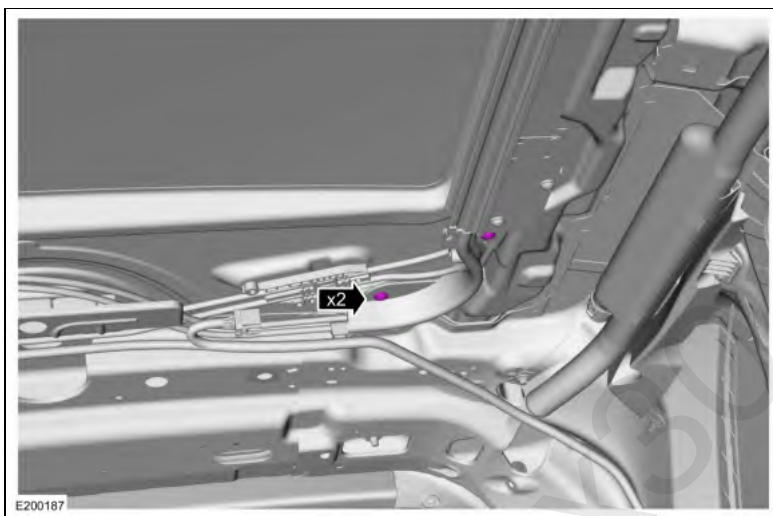
Position the ESD wire in the track assembly above the drive cables and on the shield tension bar.

2. Slide the main track assembly onto the ESD wire and the roof opening panel motor block and tube assembly.
3. Install the 2 main track assembly alignment retainers.
Torque: 62 lb.in (7 Nm)
4. Install the 5 main track assembly retainers.
Torque: 62 lb.in (7 Nm)



8. **NOTE:** LH side shown, RH side similar.

Tighten the roof opening panel motor block and drive tube retainers.
Torque: 62 lb.in (7 Nm)

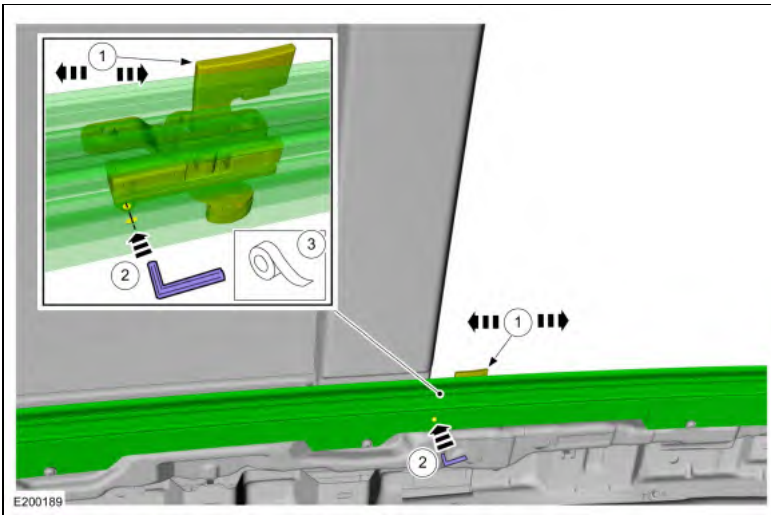


9. **NOTE:** LH side shown, RH side similar.

Both roof opening panel glass drive cable mechanisms must be positioned the same in the LH and RH main track assemblies before installing the motors for proper cable timing.

On both sides, as necessary.

1. Position the roof opening panel glass drive cable mechanism so the drive cable alignment locator is visible through the main track assembly alignment hole.
2. Insert a 3.175 mm (0.125 in.) hex wrench or equivalent through the main track assembly alignment hole and into the roof opening panel drive cable mechanism hole.
3. Tape the hex wrench to the main track assembly.

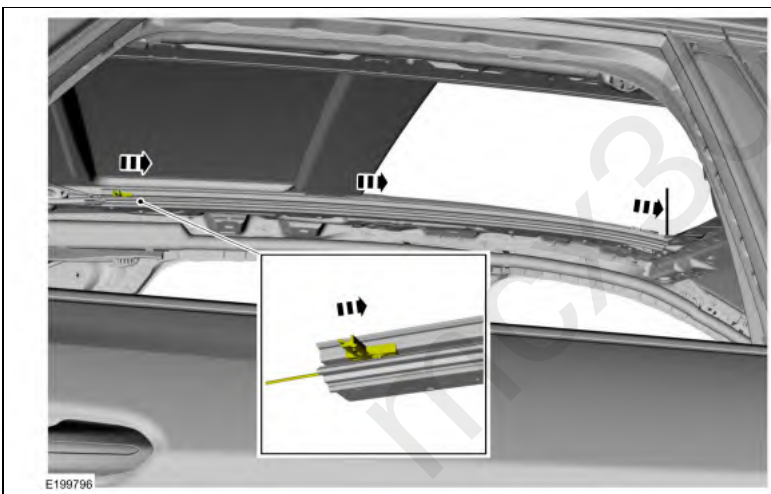


10. **NOTE:** LH side shown, RH side similar.

Both shield drive cables must be fully forward in the tracks before installing the motors for proper cable timing.

On both sides.

Push the roof opening panel shield drive cable mechanism to the front of the main track assembly.



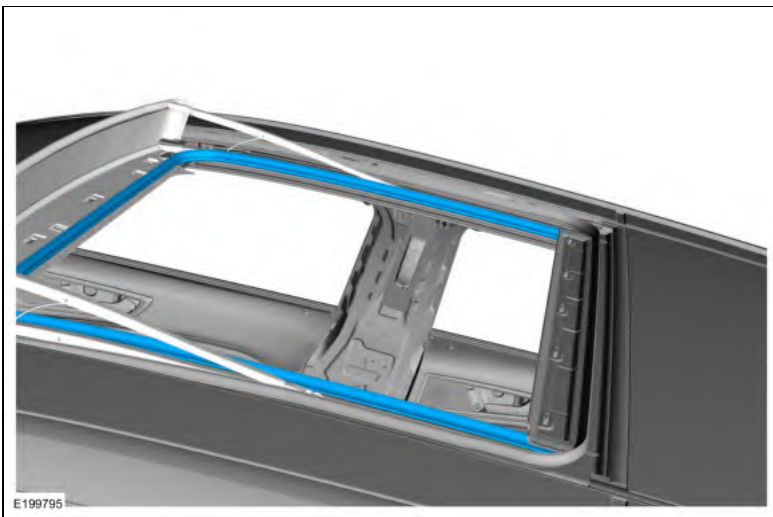
11. Install the roof opening panel sliding glass and shield motors.

Refer to: Roof Opening Panel Motor (501-17 Roof Opening Panel, Removal and Installation).

12. **NOTICE:** The alignment pin must be removed from both LH and RH main track assembly or damage to the system will result.

NOTE: LH side shown, RH side similar.

On both sides, remove the 3.175 mm (0.125 in.) hex wrench (or equivalent) from the main track assembly.



17. Install the roof opening panel glass.
Refer to: Roof Opening Panel Glass (501-17 Roof Opening Panel, Removal and Installation).
18. Initialize the roof opening panel and shield.
Refer to: Power Roof Opening Panel Initialization (501-17 Roof Opening Panel, General Procedures).

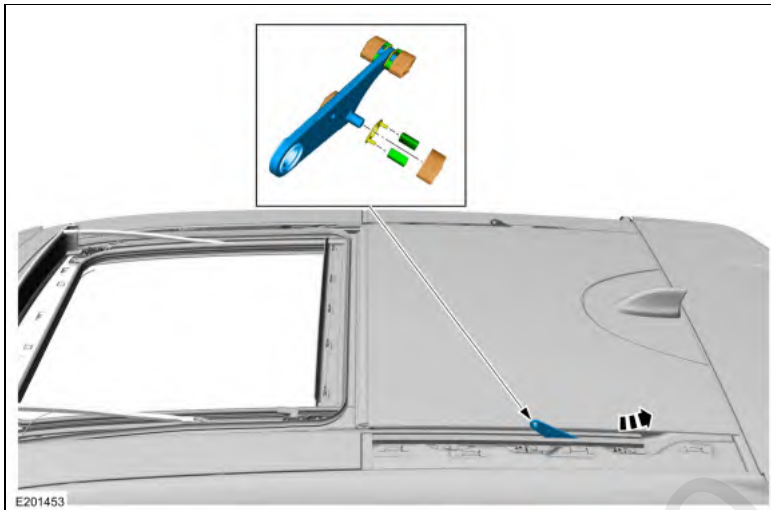
Rear Lifter Arm

Removal

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

1. Remove the roof opening panel glass.
Refer to: Roof Opening Panel Glass (501-17 Roof Opening Panel, Removal and Installation).
2. Remove the rear side trim on the side of the repair.
3. **NOTE:** A new rear lifter arm comes fully assembled.

Slide the rear lifter arm out the back of the idler track assembly.



Installation

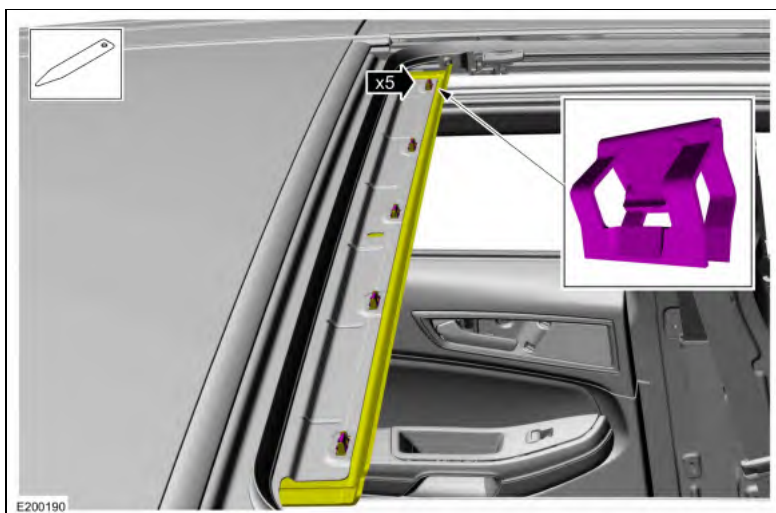
1. To install, reverse the removal procedure.

Roof Opening Panel Center Beam Trim

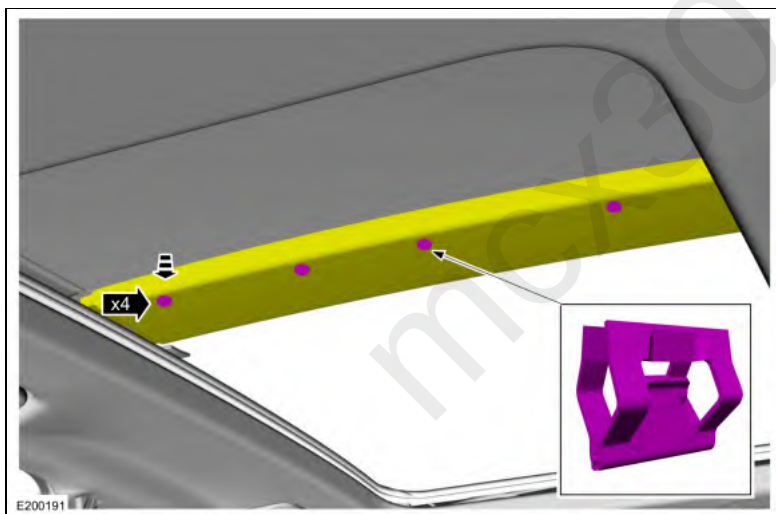
Removal

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

1. Remove the roof opening panel glass.
Refer to: Roof Opening Panel Glass (501-17 Roof Opening Panel, Removal and Installation).
2. Pry at each clip area to release the roof opening panel center beam trim front retainers.



3. Pull down on the roof opening panel center beam trim at the clip areas to release the roof opening panel center beam trim rear retainers.



4.
 1. Move the roof opening panel center beam trim to the RH side of the vehicle.
 2. Pull down and outward on the LH side to remove the roof opening panel center beam trim.