

## 21 - Transmission and Transfer Case/Transfer Case, MP1622C/Removal and Installation

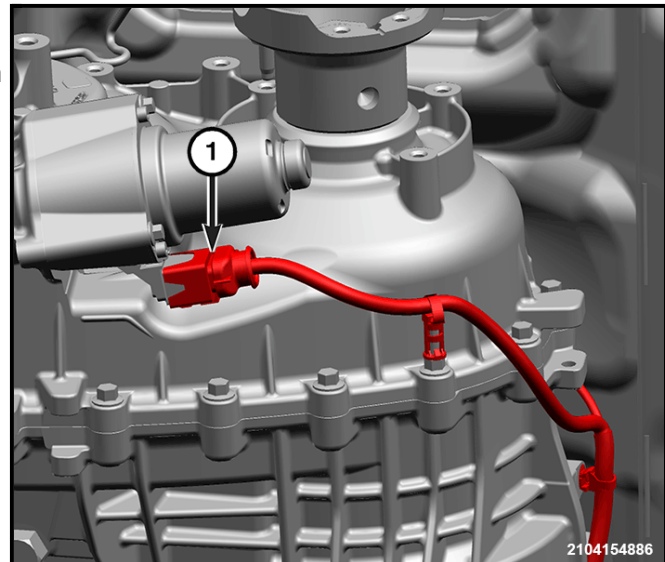
### REMOVAL AND INSTALLATION

⊕ **Labor Operations:** Click to display a list of Labor Operations associated with this procedure

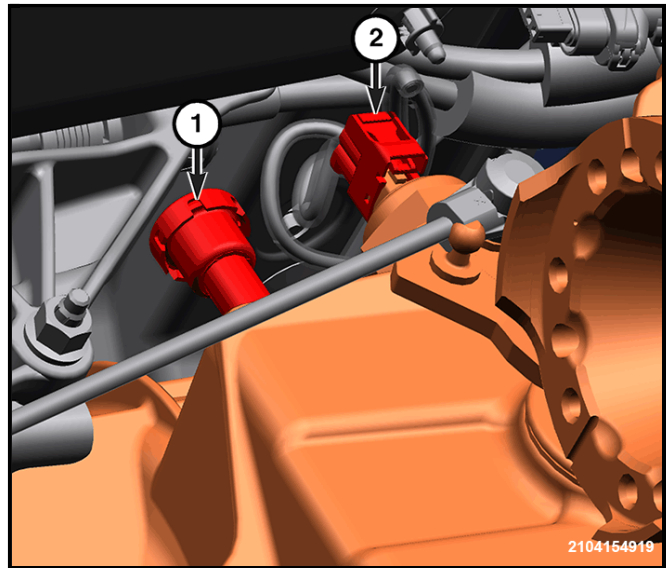
#### REMOVAL

1. Raise and support vehicle. (Refer to 04 - Vehicle Quick Reference/Hoisting/Standard Procedure) .
2. If equipped, remove the skid plate.(Refer to 13 - Frame and Bumpers/Under Body Protection/PLATE, Skid, Front/Removal and Installation) .
3. Position a drain pan underneath the transfer case.
4. Remove the transfer case drain plug and drain the lubricant into the drain pan.
5. Remove the front and rear propeller shafts. (Refer to 03 - Differential and Driveline/Propeller Shaft/Removal and Installation) .

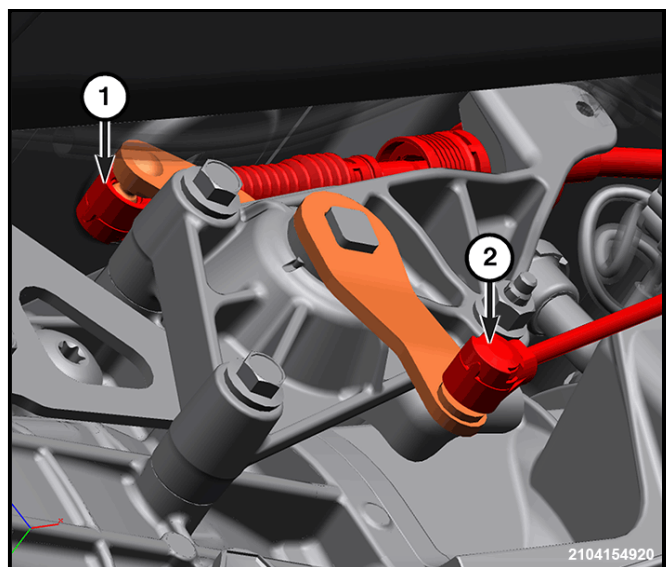
6. Disconnect the wire harness connector (1) from the shift motor.



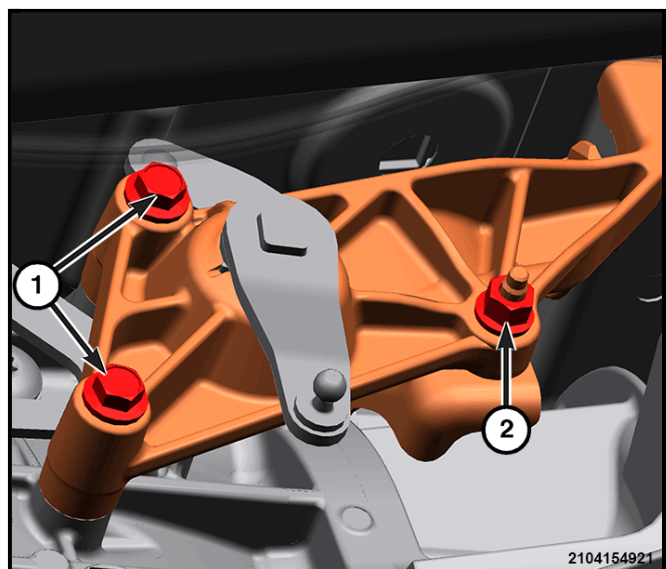
7. Remove the vent tube (1) and the wire harness connector (2) from the neutral safety switch.



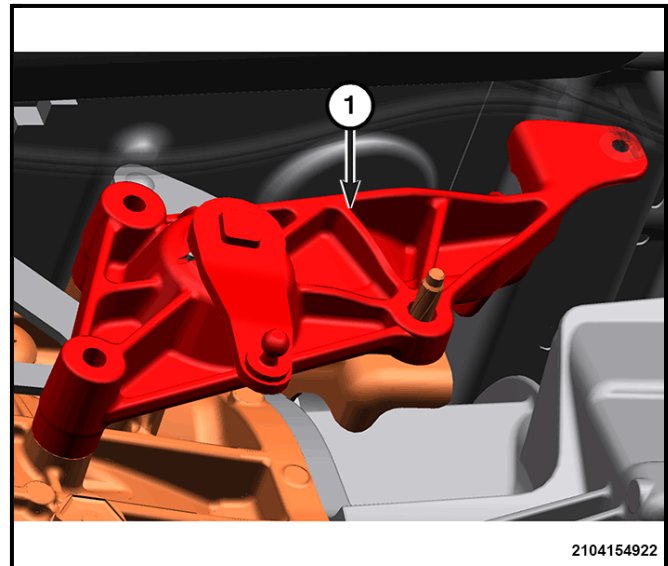
8. Disconnect the transfer case shift cable (1) and the shift rod (2).



9. Remove the two bolts (1) and one nut (1) securing the transfer case shift bracket to the transmission housing.

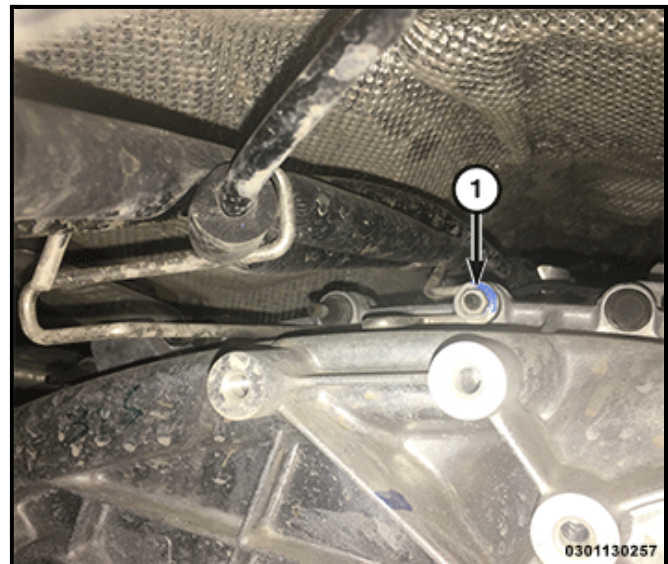


10. Remove the transfer case shift bracket (1).



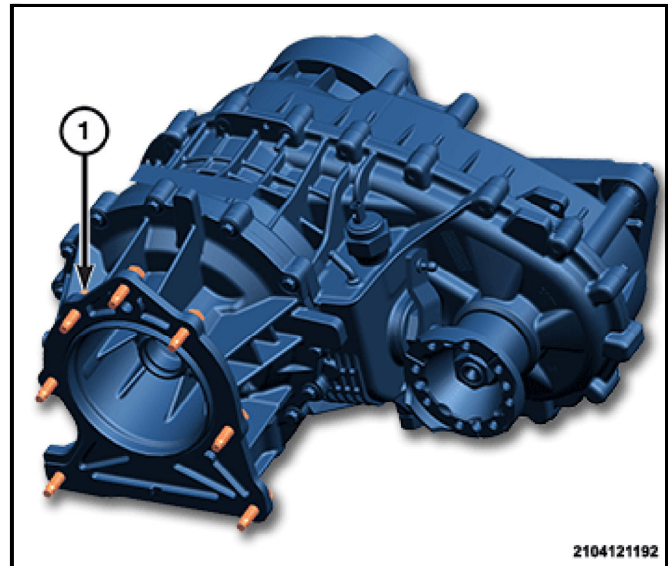
11. Using a suitable jack stand, support the transmission.
12. Remove the transfer case crossmember. (Refer to 13 - Frame and Bumpers/Frame/CROSSMEMBER, Transfer Case/Removal and Installation) .

13. Remove the shift cable retaining bracket nut (1), then remove the shift cable retaining bracket.

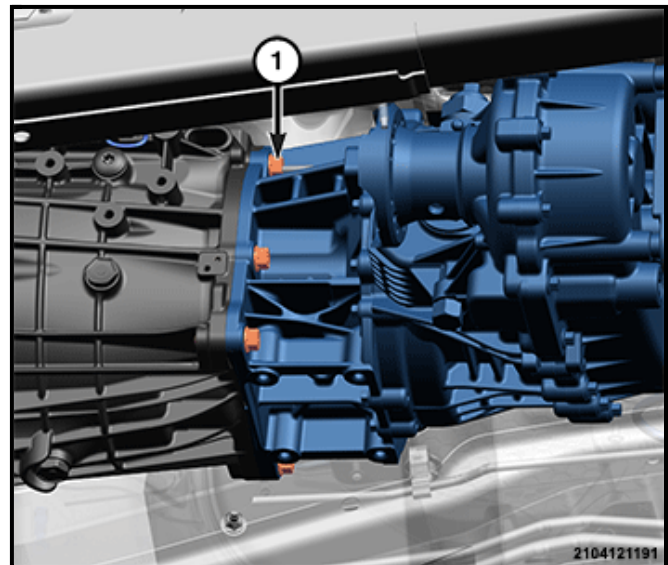


14. Using a suitable jack, support the transfer case. Using safety chains, secure transfer case to the jack.

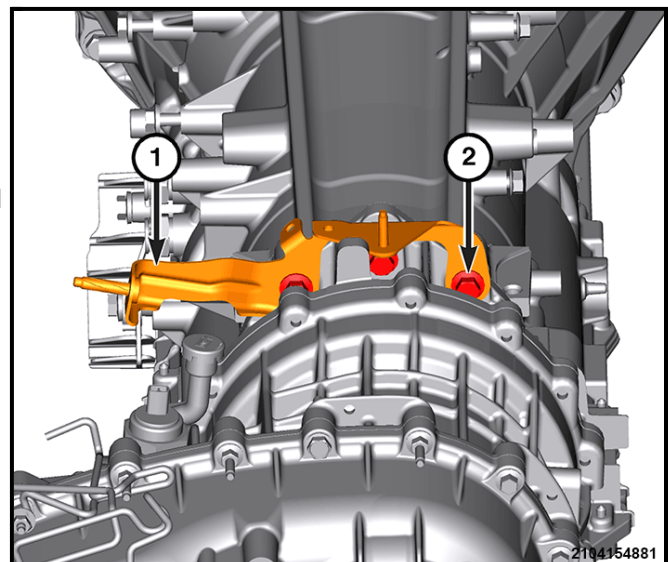
**NOTE:** There are seven bolts (1) securing the transfer case to the transmission.



15. Remove the seven bolts (1) securing the transfer case to the transmission assembly.



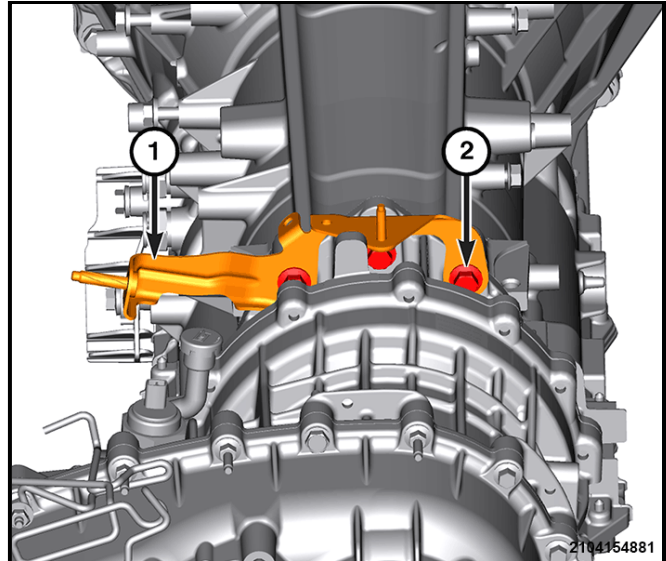
16. Remove the transfer case shift bracket (1) from the top of the transfer case.
17. Move the transfer case assembly rearward until it is free of the transmission output shaft.
18. Lower the jack and remove the transfer case from under the vehicle.



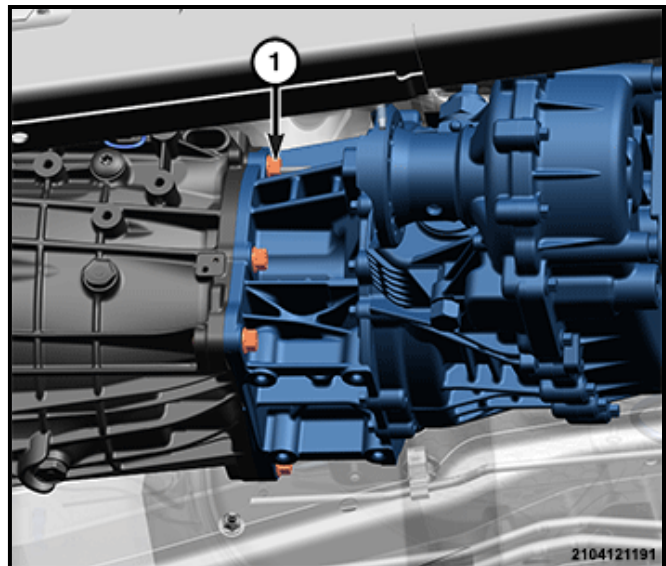
## INSTALLATION

1. Align and seat the transfer case on the transmission. Be sure the transfer case input gear splines are aligned with the transmission output shaft. Align the splines by rotating the transfer case rear output shaft yoke if necessary. Do not install any transfer case attaching nuts until the transfer case is completely seated against the transmission.

2. Place the transfer case shift bracket (1) on the top of the transfer case. Secure with transfer case to transmission bolts (2).

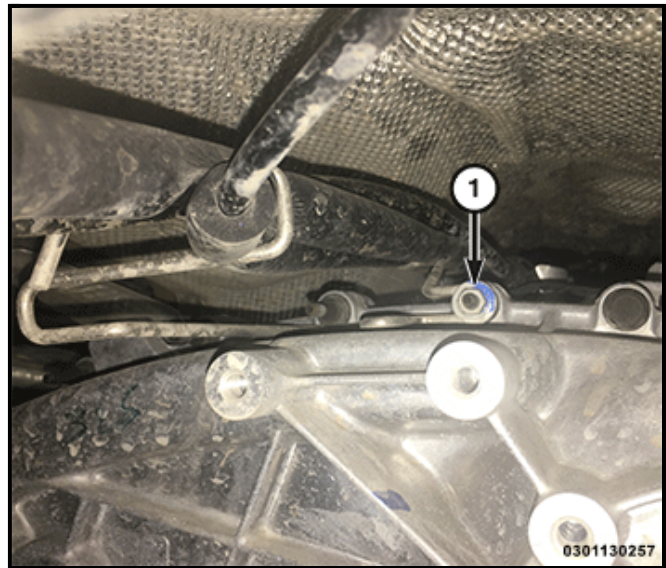


3. Install and tighten the transfer case to transmission bolts (1) to the proper (Torque Specifications) .

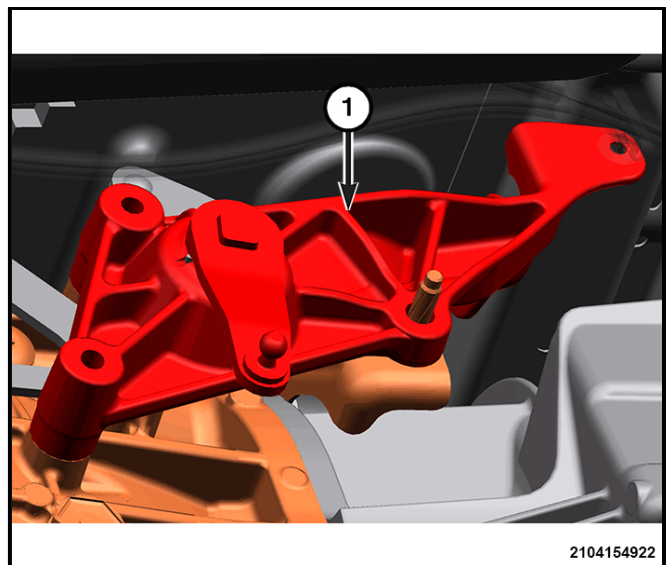


4. Install the shift cable retaining bracket and the shift cable retaining bracket nut (1). Tighten the nut to the proper (Torque Specifications) .

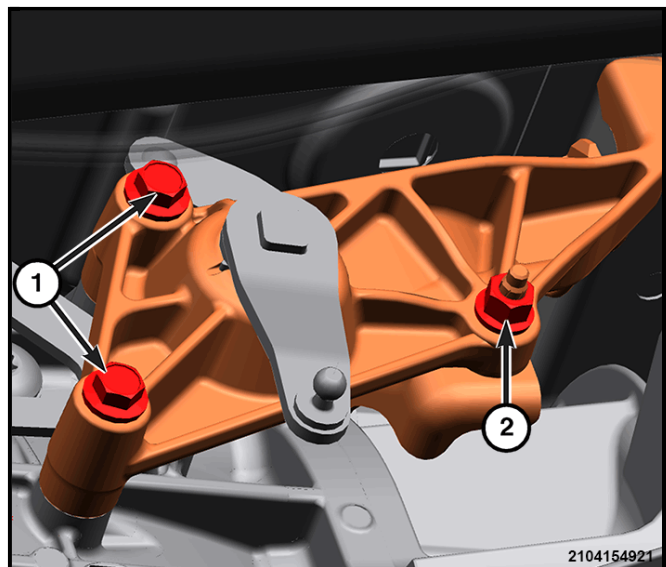
5. For automatic transmission only, install the rear crossmember (Refer to 13 - Frame and Bumpers/Frame/CROSSMEMBER, Transfer Case/Removal and Installation) .
6. Remove the jack stand from under transmission.



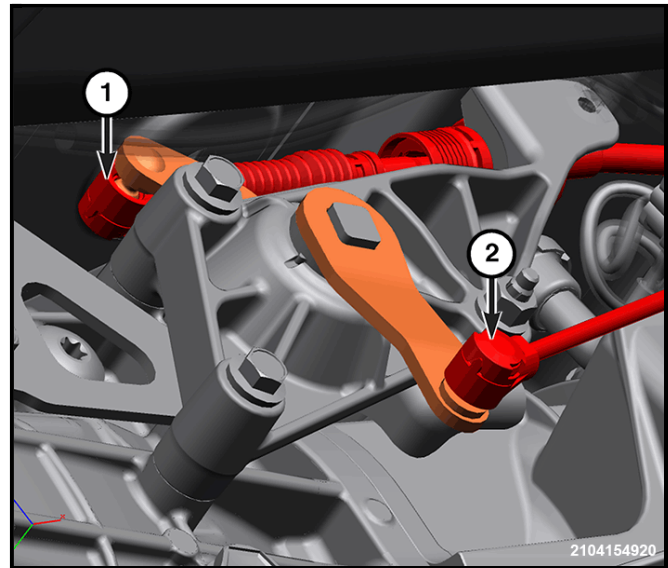
7. Install the transfer case shift bracket (1) to the transmission housing.



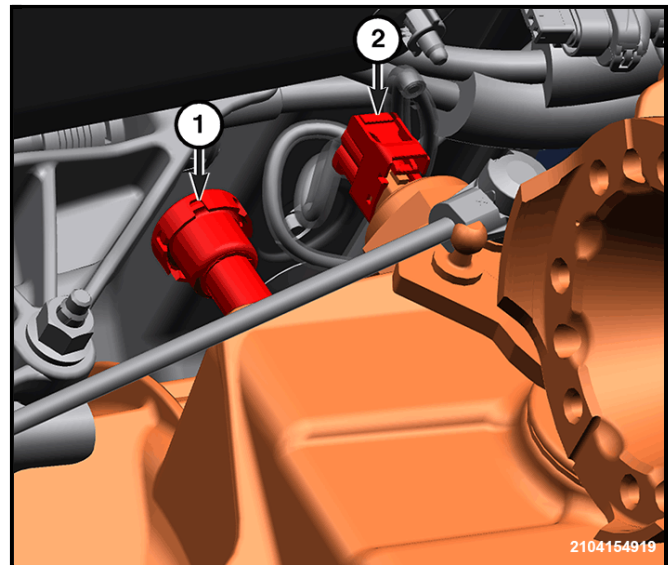
8. Install the two transfer case shift bracket bolts (1) and one transfer case shift bracket nut (2) and tighten to the proper (Torque Specifications) .



9. Connect the transfer case shift cable (1) and the transfer case shift rod (2) on the shift levers.



10. Install the transfer case vent tube (1) and connect the wire harness connector (2) to the neutral safety switch.



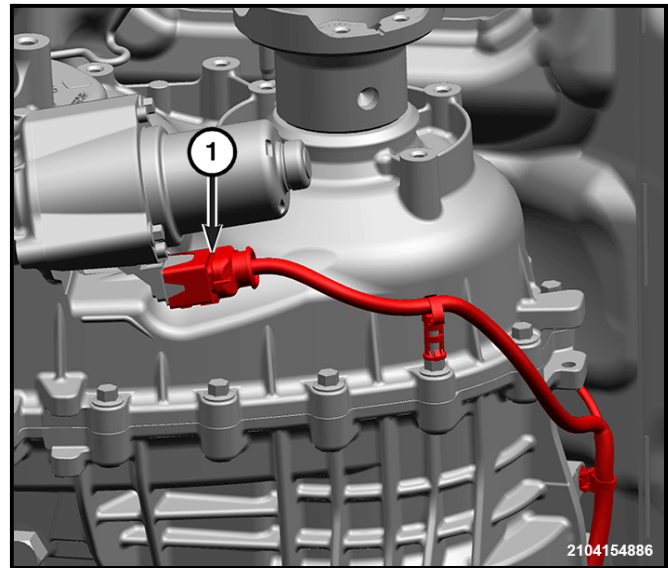
11. Adjust the shift linkage if necessary.

**NOTE:** Adjusting the shift linkage is necessary any time the shift cable is disconnected or the shift bracket is removed.

12. Connect the wire harness connector (1) to the shift motor.
13. Install the propeller shafts. (Refer to 03 - Differential and Driveline/Propeller Shaft/Removal and Installation) .
14. Fill the transfer case with the specified fluid (Refer to 21 - Transmission and Transfer

Case/Transfer Case, FLUID/Standard Procedure) and install the fill plug. Tighten the plug to the proper (Torque Specifications) .

15. Install the skid plate, if equipped. (Refer to 13 - Frame and Bumpers/Under Body Protection/PLATE, Skid, Front/Removal and Installation)
16. Remove the support and lower the vehicle.
17. Verify proper operation of the transfer case.



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