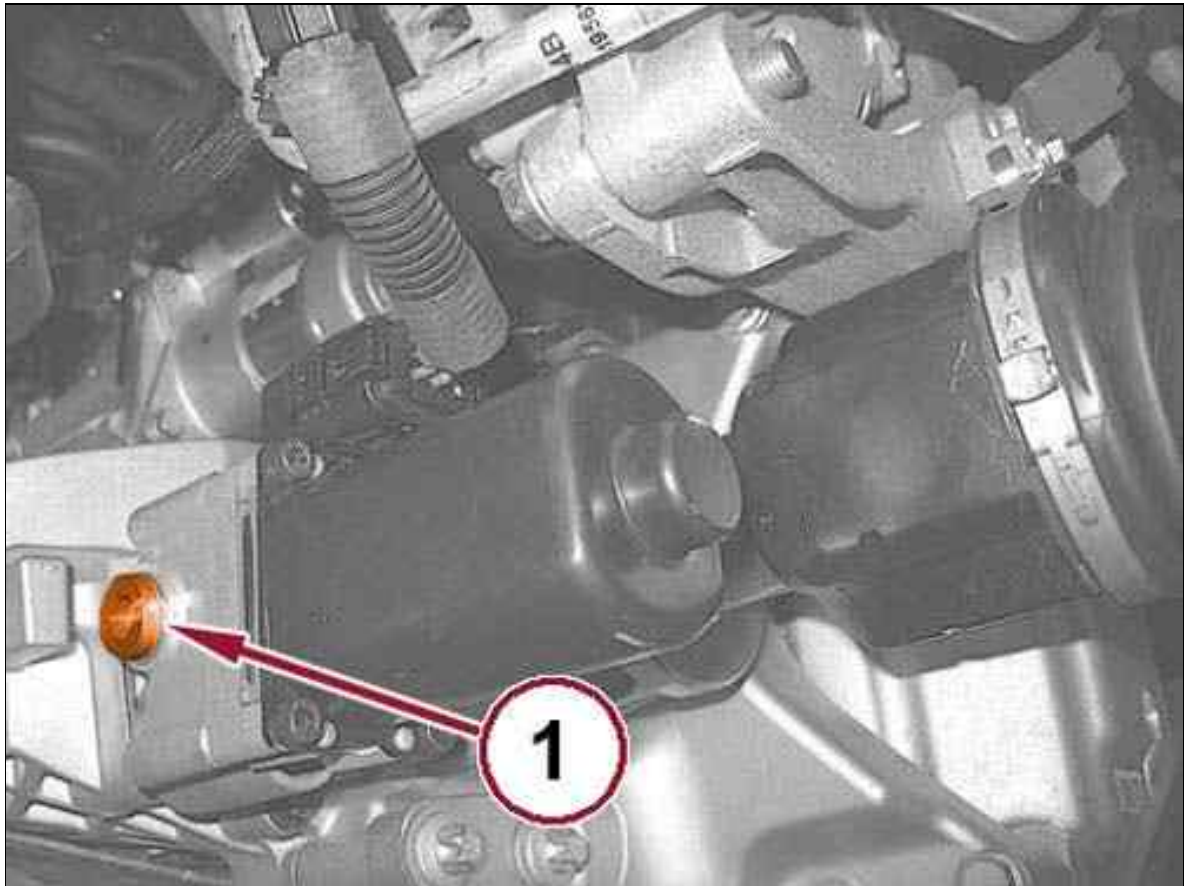


STANDARD PROCEDURE > POWER TRANSFER UNIT (PTU) FLUID FILL

The PTU oil is not a scheduled maintenance service.

1. Raise and support the vehicle. Refer to HOISTING, STANDARD PROCEDURE .
2. Remove the belly pan. Refer to BELLY PAN, REMOVAL AND INSTALLATION .
3. Remove the right front tire and wheel assembly. Refer to REMOVAL AND INSTALLATION .

Fig 1: PTU Fill Plug



Courtesy of CHRYSLER GROUP, LLC

4. Remove the PTU oil filler cap and check the oil level is just below the bottom edge of the fill hole.
5. If necessary fill the PTU to the bottom of the fill plug hole using the specified fluid. Refer to CAPACITIES AND RECOMMENDED FLUIDS, SPECIFICATIONS .
6. Clean and tighten the PTU fill plug.
7. Install the right front tire and wheel assembly. Refer to REMOVAL AND INSTALLATION .
8. Install the belly pan. Refer to BELLY PAN, REMOVAL AND INSTALLATION .

SPECIFICATIONS > TORQUE SPECIFICATIONS

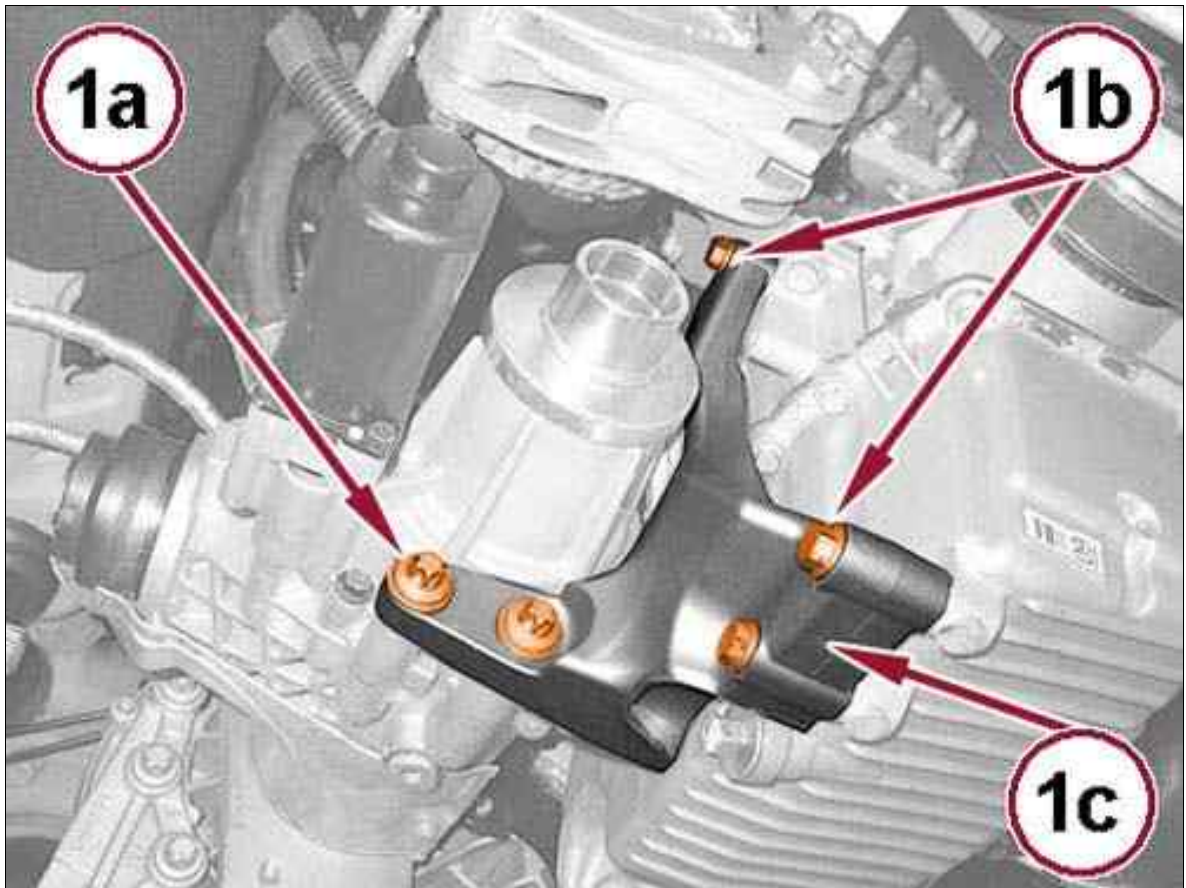
TORQUE SPECIFICATIONS

DESCRIPTION	N.m	Ft. Lbs.	In. Lbs.
PTU-to-Transmission Bolts	55	41	-
PTU Bracket-to-Engine Bolts	55	41	-
Bracket-to-PTU Bolt	55	41	-

REMOVAL AND INSTALLATION > 1.4 TURBO MULTIAIR > REMOVAL

1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
2. Remove the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
3. Remove the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .

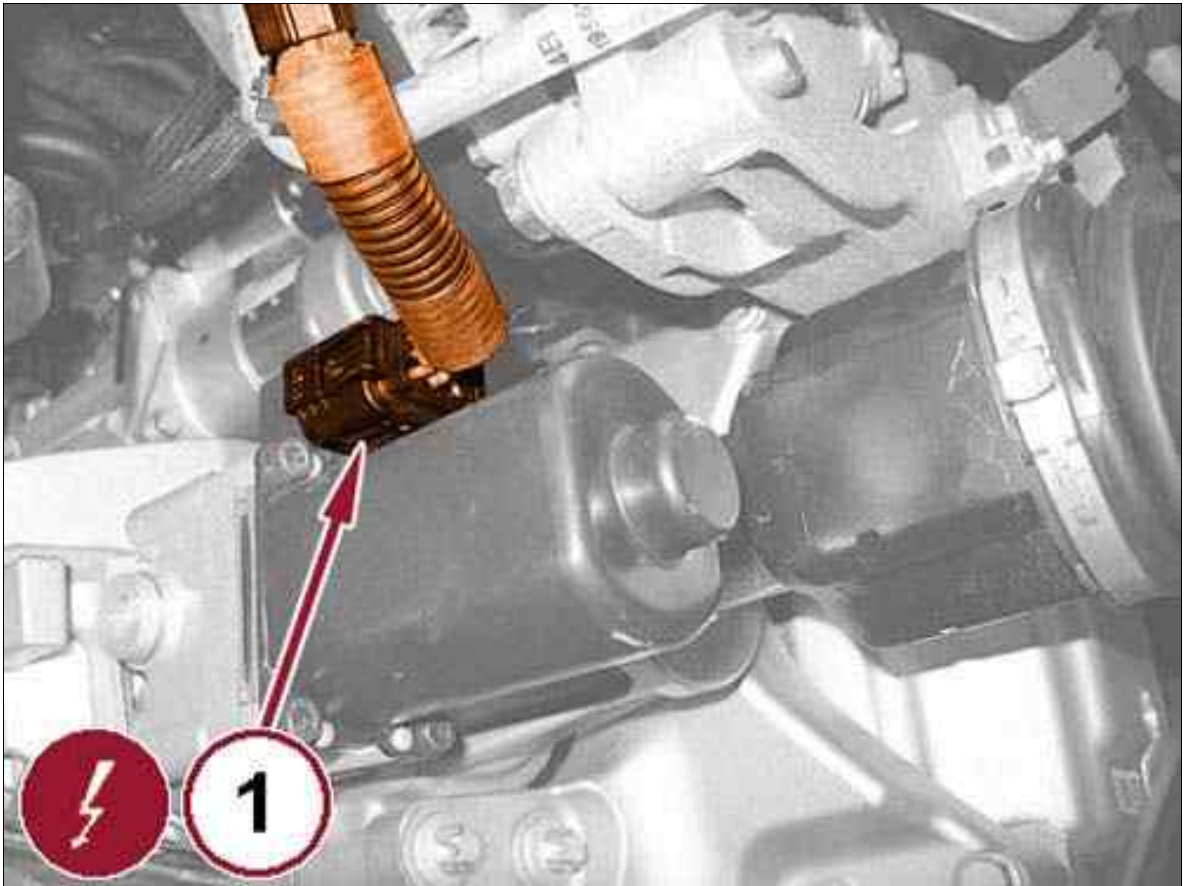
Fig 1: PTU Support Bracket & Bolts



Courtesy of CHRYSLER GROUP, LLC

4. Remove the bolts (1a), (1b) and remove the Power transfer Unit (PTU) support bracket (1c).

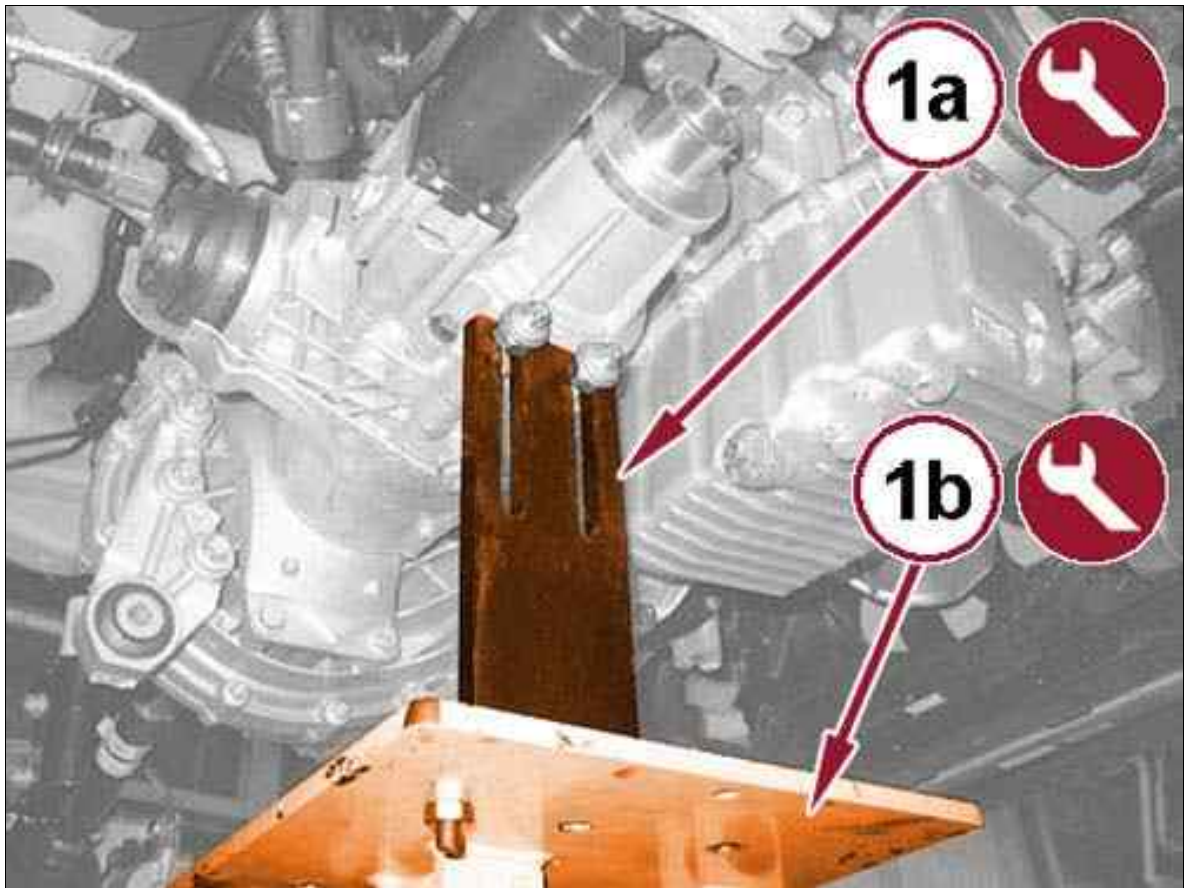
Fig 2: PTU Actuator Connector



Courtesy of CHRYSLER GROUP, LLC

5. Disconnect the wire harness connector (1) of the PTU actuator.

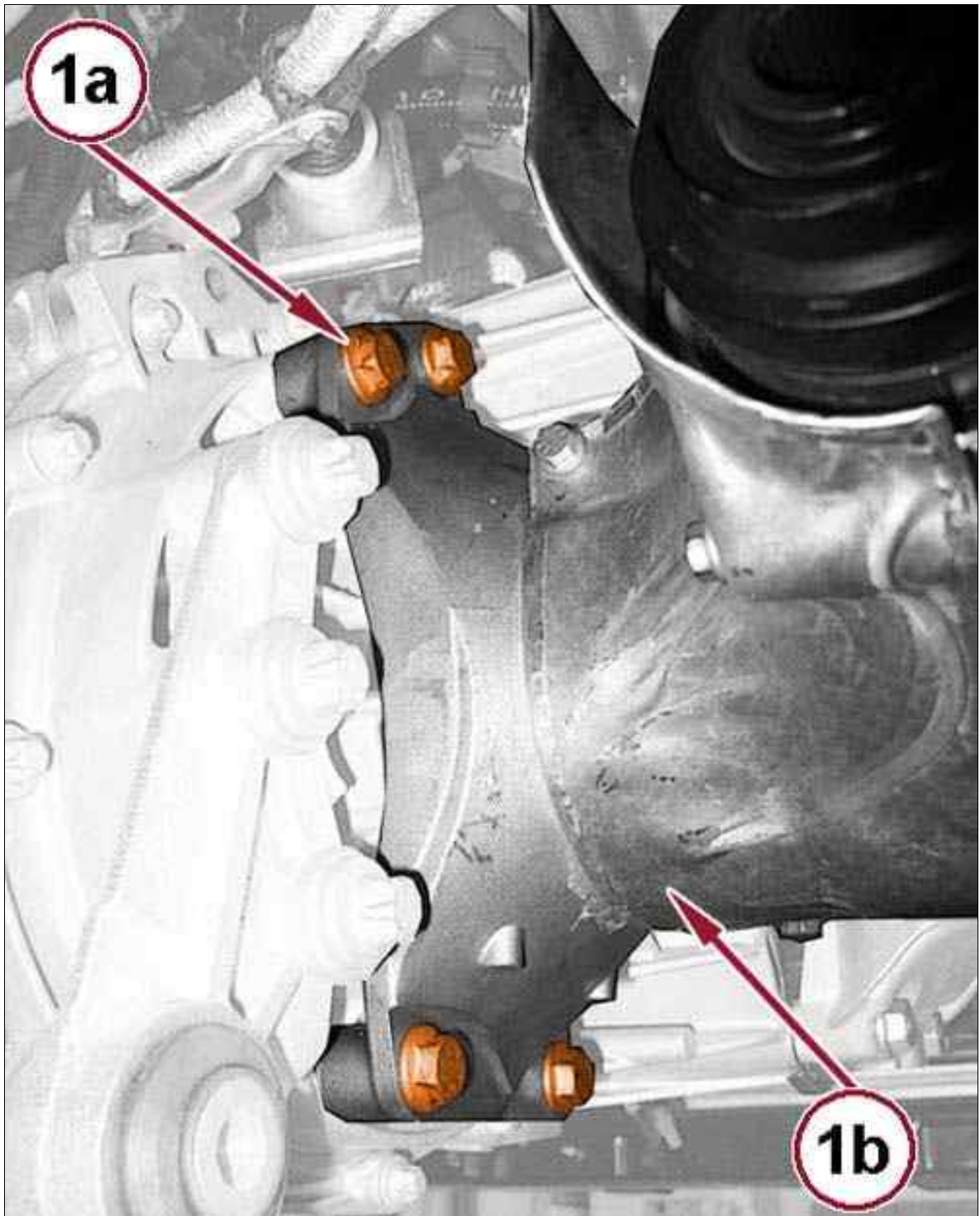
Fig 3: Supporting PTU With Special Tools



Courtesy of CHRYSLER GROUP, LLC

6. Support the PTU using tools 1870847000 (1a) and 1870835001 (1b).

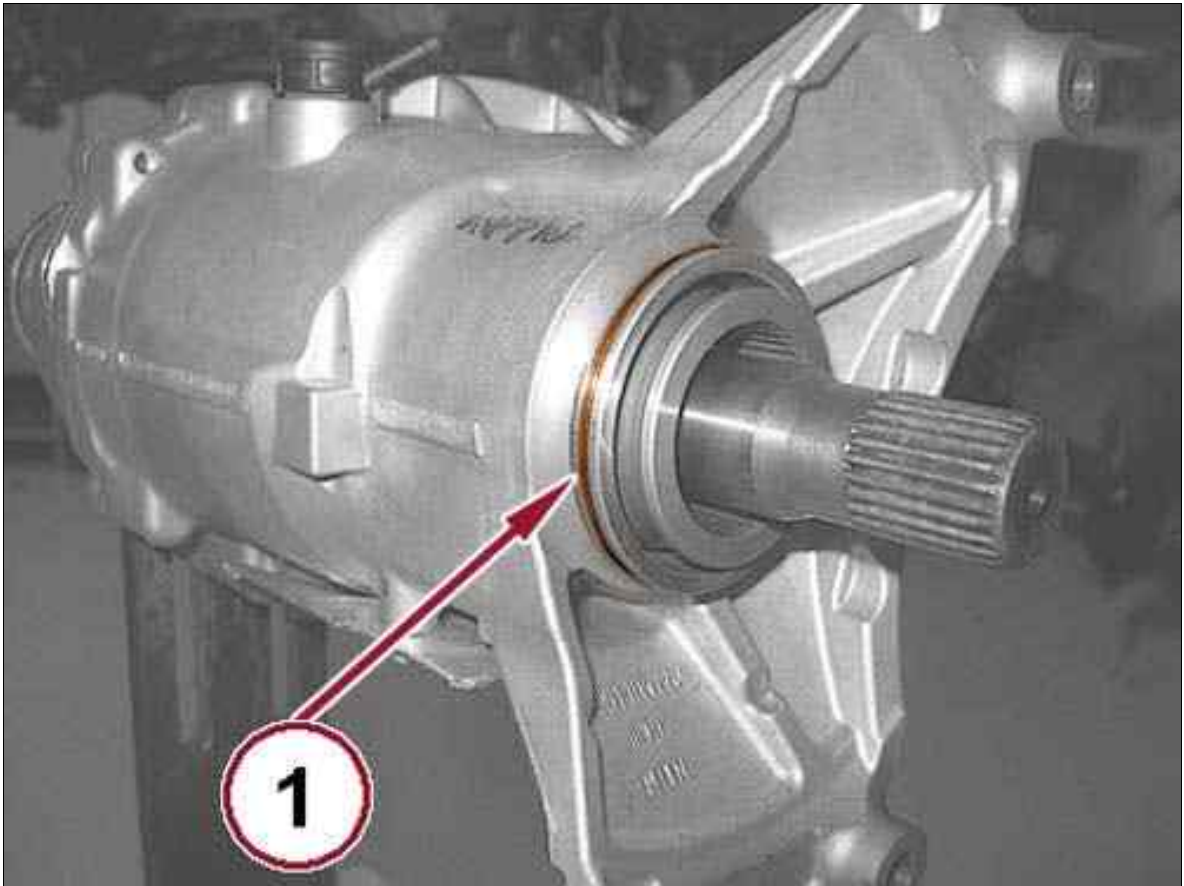
Fig 4: PTU & Bolts



Courtesy of CHRYSLER GROUP, LLC

7. Remove the bolts (1a) and remove the PTU (1b) from the vehicle.

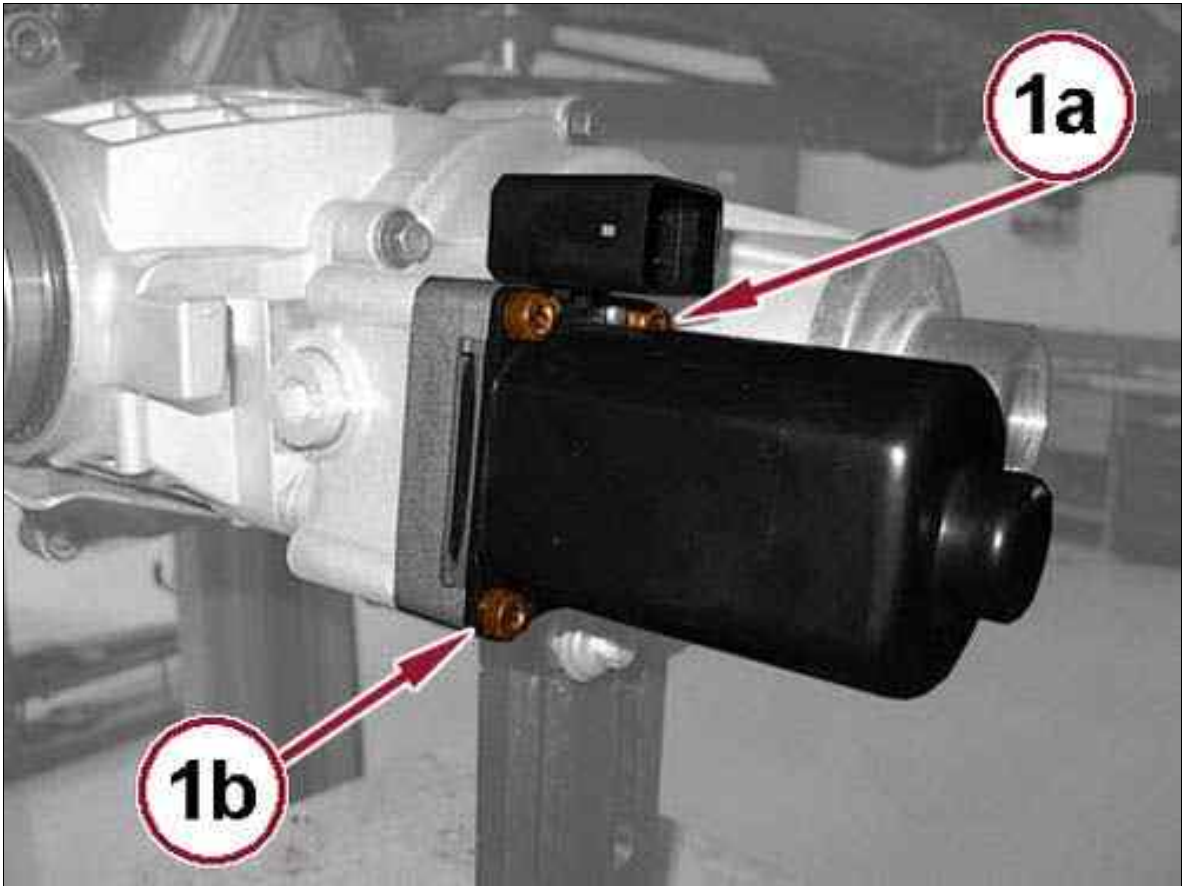
Fig 5: O-Ring



Courtesy of CHRYSLER GROUP, LLC

8. Remove and discard the O-ring (1).

Fig 6: PTU Actuator & Bolts



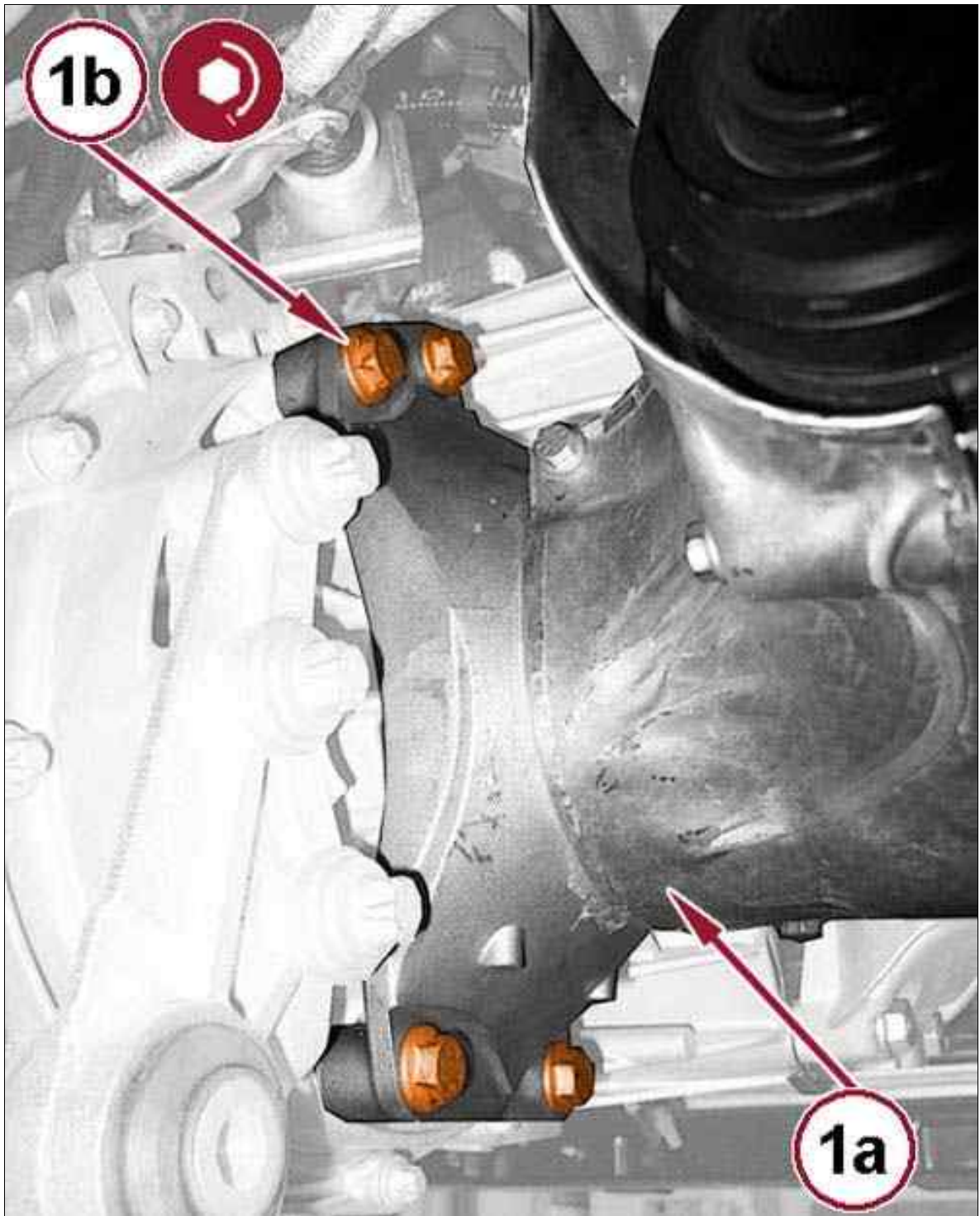
Courtesy of CHRYSLER GROUP, LLC

9. If necessary, remove the bolts (1a) and remove the PTU actuator (1b).

REMOVAL AND INSTALLATION > 1.4 TURBO MULTIAIR > INSTALLATION

1. If removed, install the Power Transfer Unit (PTU) actuator and tighten the bolts.

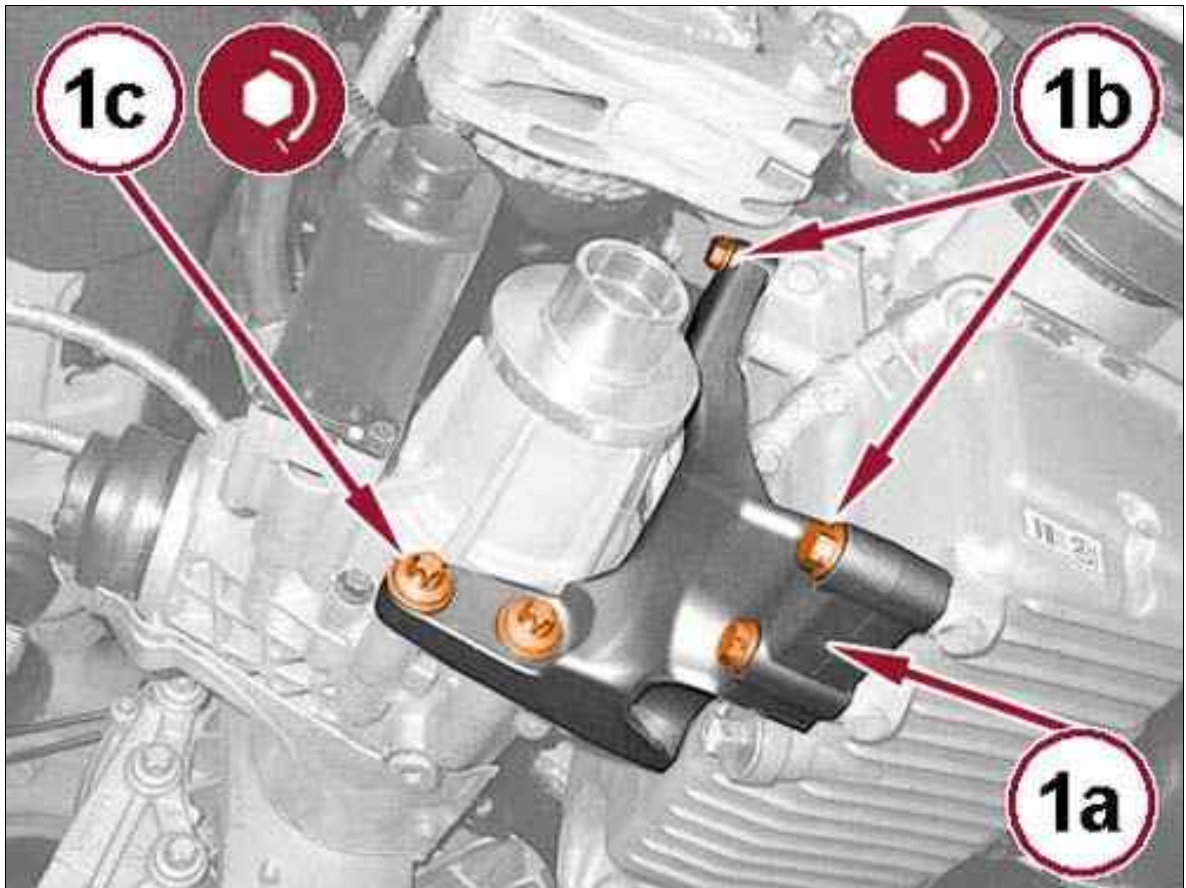
Fig 1: PTU & Bolts



Courtesy of CHRYSLER GROUP, LLC

2. With the tools 1870847000 and 1870835001 install the PTU (1a) complete with a **NEW** O-ring and tighten the bolts (1b) to the proper specification. Refer to SPECIFICATIONS .
3. Remove the PTU support tools.

Fig 2: PTU Support Bracket & Bolts



Courtesy of CHRYSLER GROUP, LLC

4. Install the PTU support bracket (1a) the tighten the bolts (1b) and (1c) to the proper specification. Refer to SPECIFICATIONS .
5. Connect the wire harness connector to the PTU actuator.
6. Install the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .
7. Install the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
8. Verify that the PTU and transmission are filled to the specified fluid level. Refer to CAPACITIES AND RECOMMENDED FLUIDS, SPECIFICATIONS .
9. Lower the vehicle.
10. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.
11. When installing a **NEW** (PTU), connect the diagnostic scan tool, enter "miscellaneous functions" of the DriveTrain Control Module (DTCM) and run the self-learning procedure for the PTU.
12. Road test the vehicle to verify the repair.

REMOVAL AND INSTALLATION > 2.0 TURBO DIESEL -120/140 HP > REMOVAL

1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
2. Remove the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
3. Remove the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .

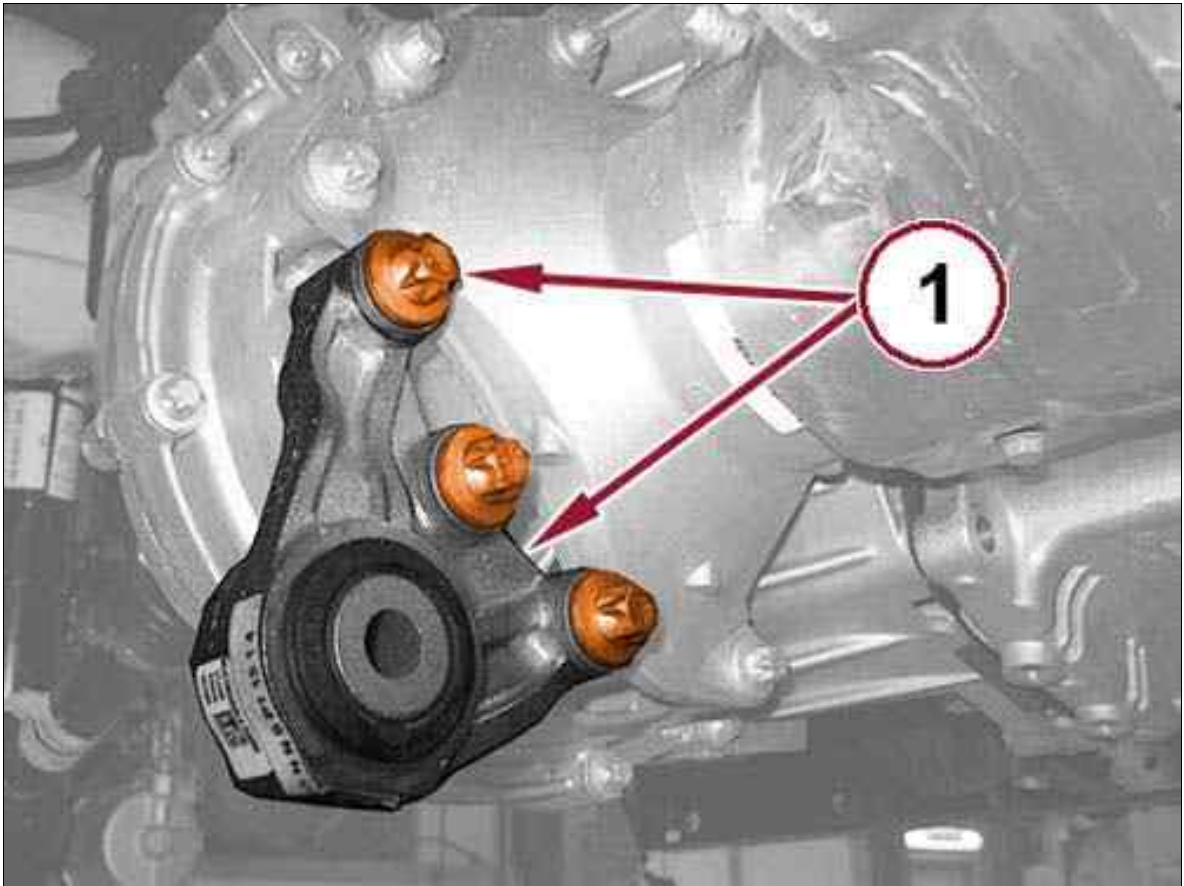
Fig 1: Muffler & Bolts



Courtesy of CHRYSLER GROUP, LLC

4. Place a suitable hydraulic lift under the rear exhaust muffler, remove the bolts and remove the exhaust.

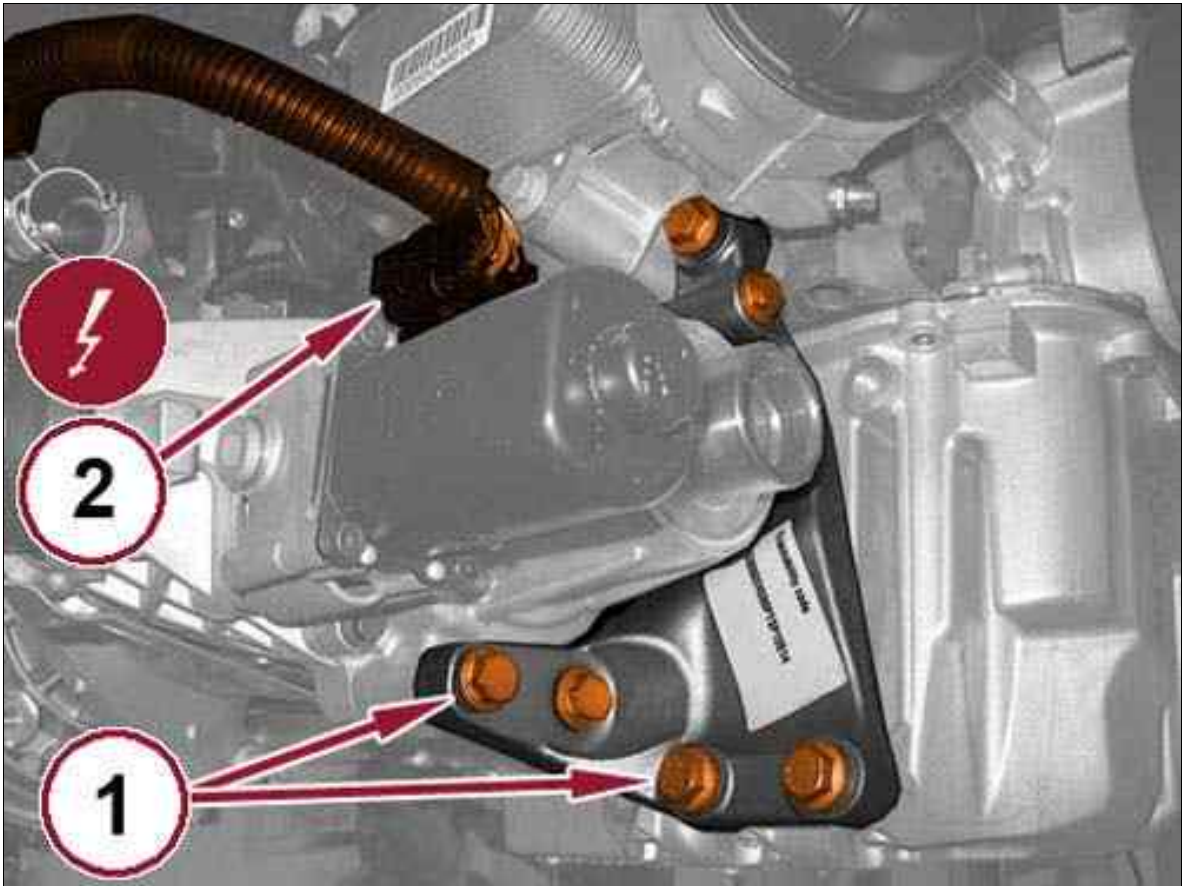
Fig 2: Rear Engine Mount & Bolts



Courtesy of CHRYSLER GROUP, LLC

5. Remove the bolts and remove the isolator for the rear engine mount (1).

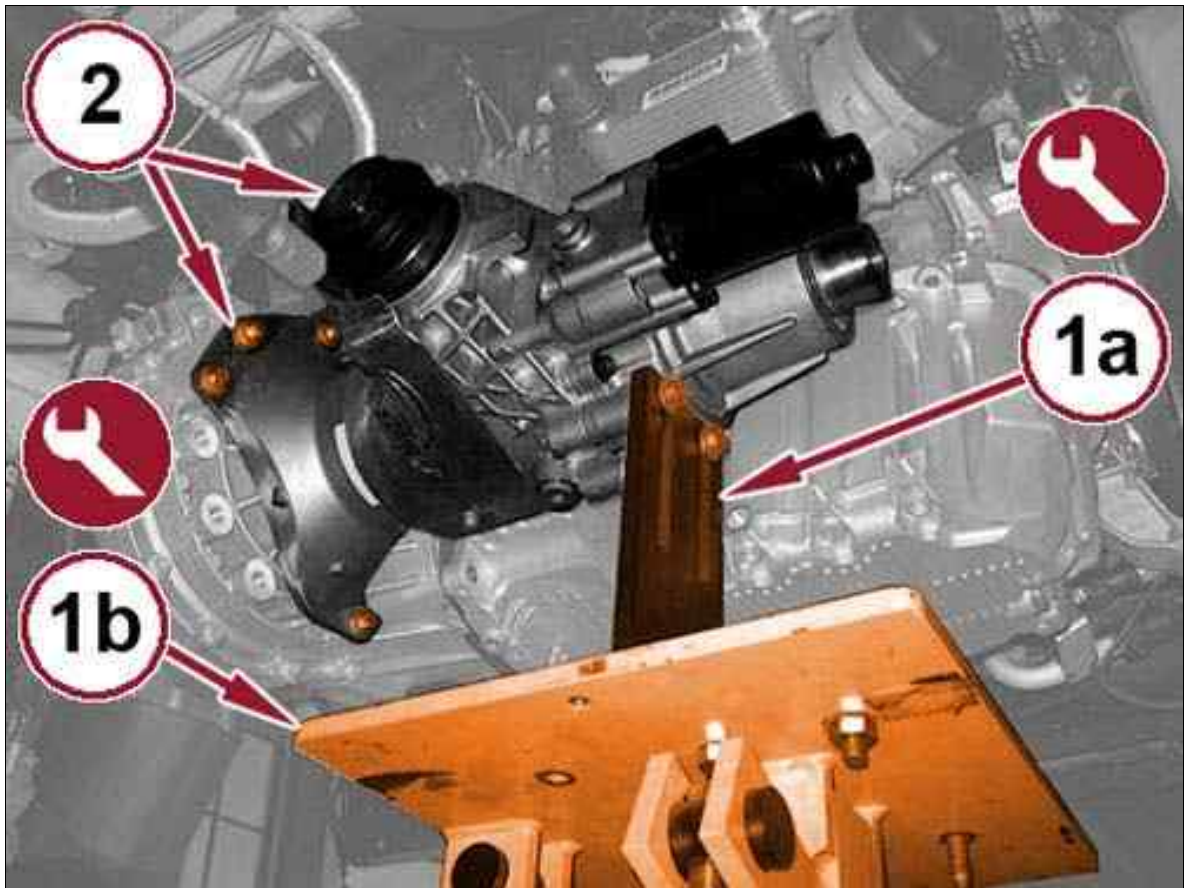
Fig 3: Power Transfer Unit Support Bracket Bolts & Connector



Courtesy of CHRYSLER GROUP, LLC

6. Remove the bolts and remove the Power transfer Unit (PTU) support bracket (1).
7. Disconnect the wire harness connector (2) of the PTU actuator.

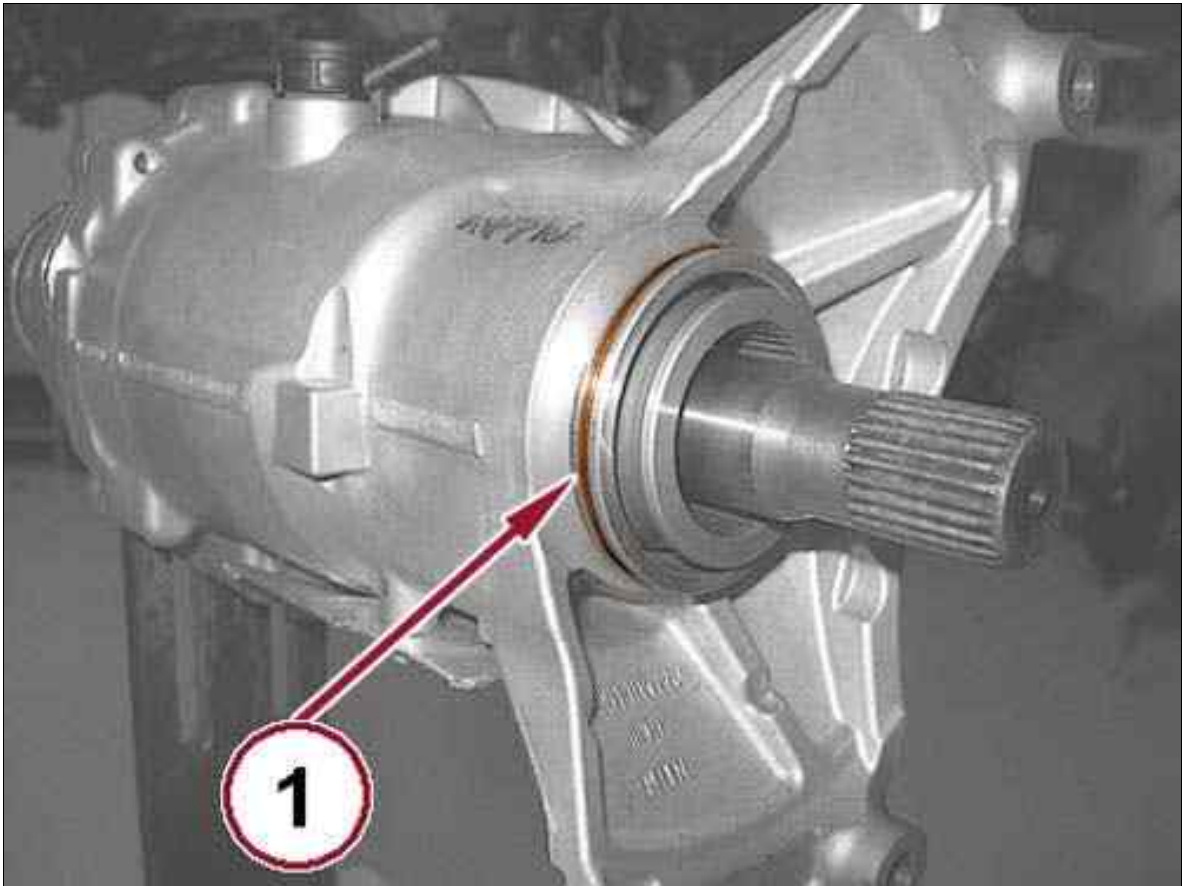
Fig 4: PTU, Bolts & Special Tools



Courtesy of CHRYSLER GROUP, LLC

8. Support the PTU using tools 1870847000 (1a) and 1870835001 (1b).
9. Remove the bolts and remove the PTU (2) from the vehicle.

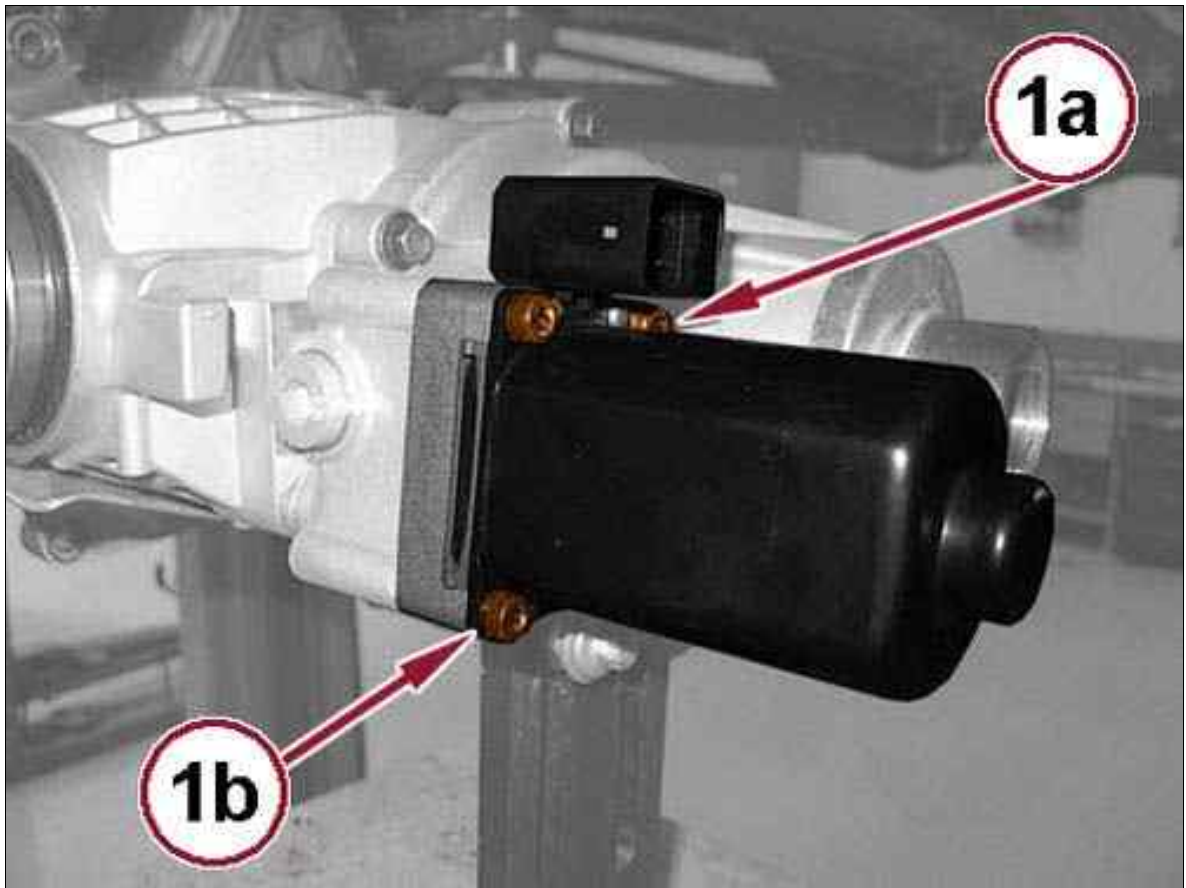
Fig 5: O-Ring



Courtesy of CHRYSLER GROUP, LLC

10. Remove and discard the O-ring (1).

Fig 6: PTU Actuator & Bolts



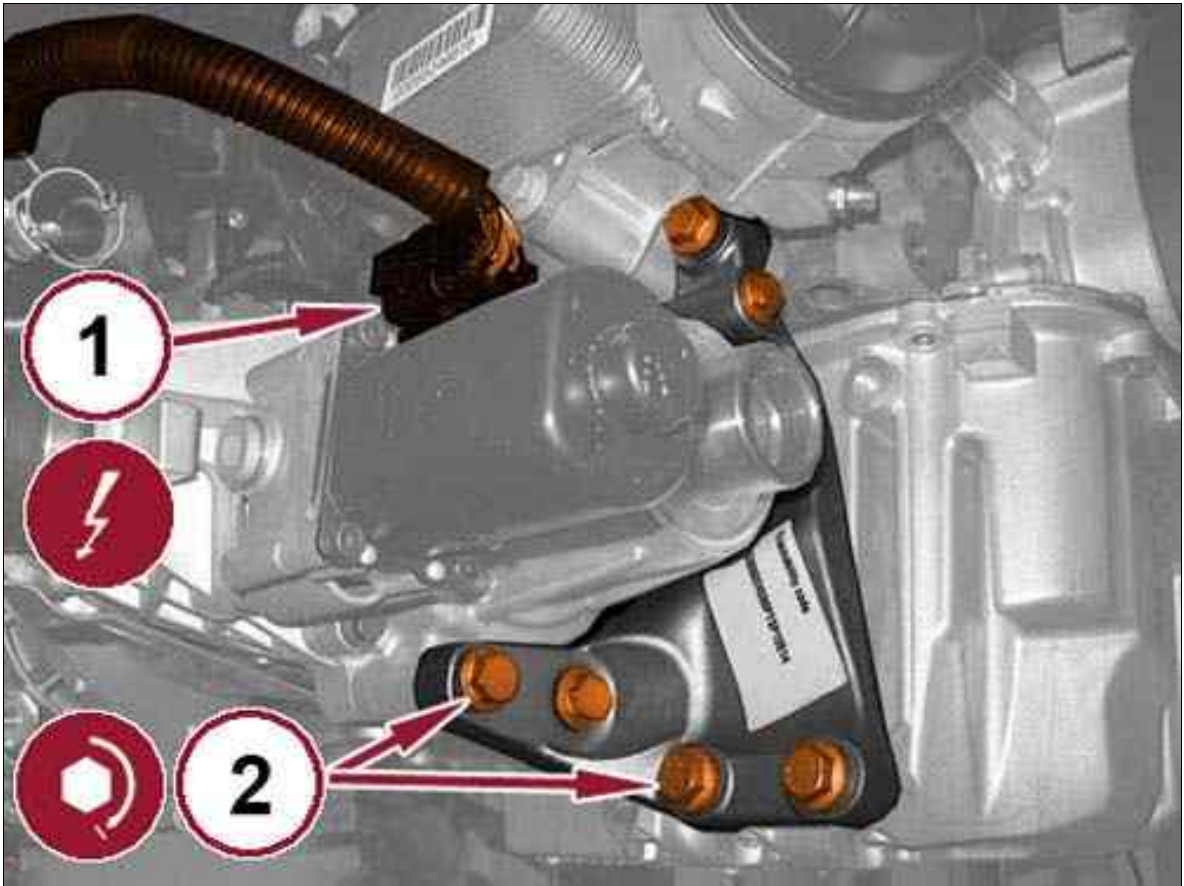
Courtesy of CHRYSLER GROUP, LLC

11. If necessary, remove the bolts (1a) and remove the PTU actuator (1b).

REMOVAL AND INSTALLATION > 2.0 TURBO DIESEL -120/140 HP > INSTALLATION

1. If removed, install the Power Transfer Unit (PTU) actuator and tighten the bolts.
2. With the tools 1870847000 and 1870835001 install the PTU (1a) complete with a **NEW** O-ring and tighten the bolts (1b) to the proper specification. Refer to SPECIFICATIONS .
3. Remove the PTU support tools.

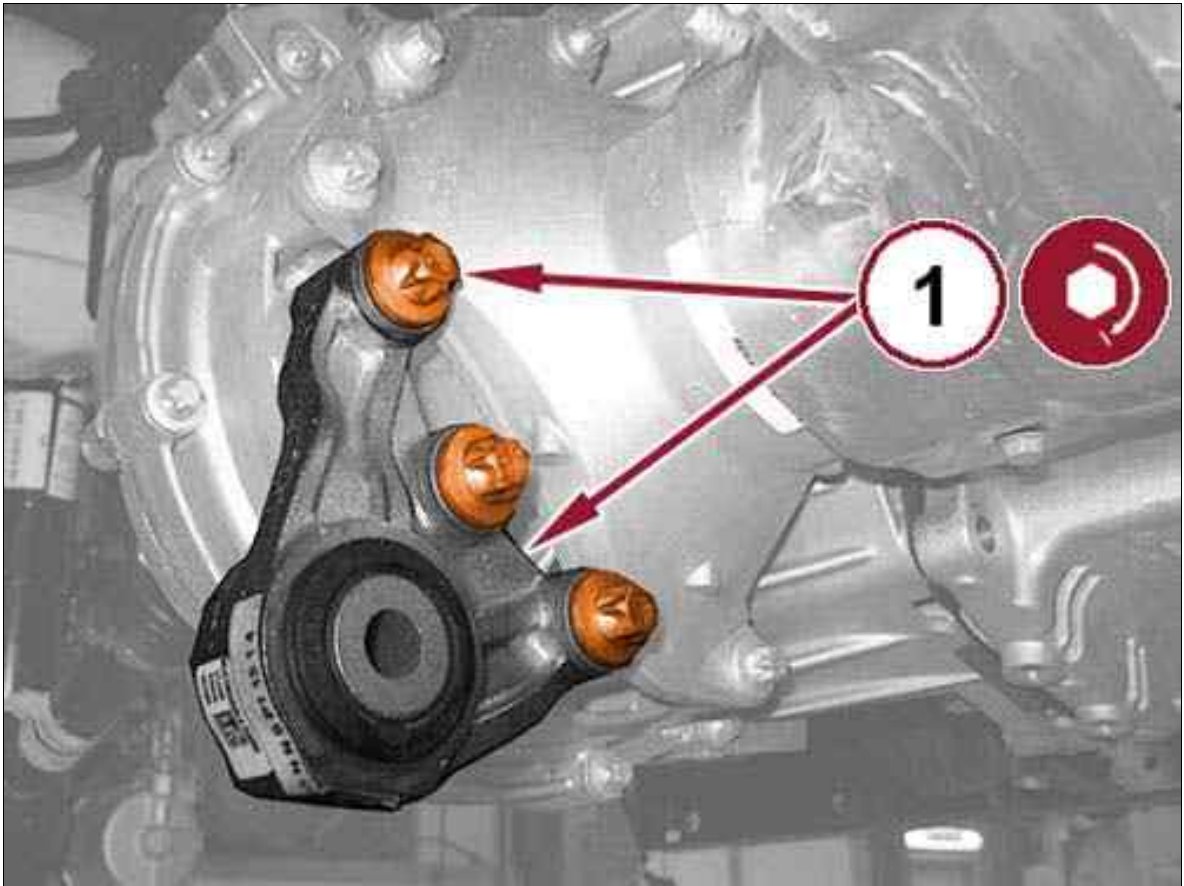
Fig 1: Power Transfer Unit Support Bracket Bolts & Connector



Courtesy of CHRYSLER GROUP, LLC

4. Connect the wire harness connector (1) to the PTU actuator.
5. Install the PTU support bracket and tighten the bolts and (2) to the proper specification. Refer to SPECIFICATIONS .

Fig 2: Rear Engine Mount & Bolts



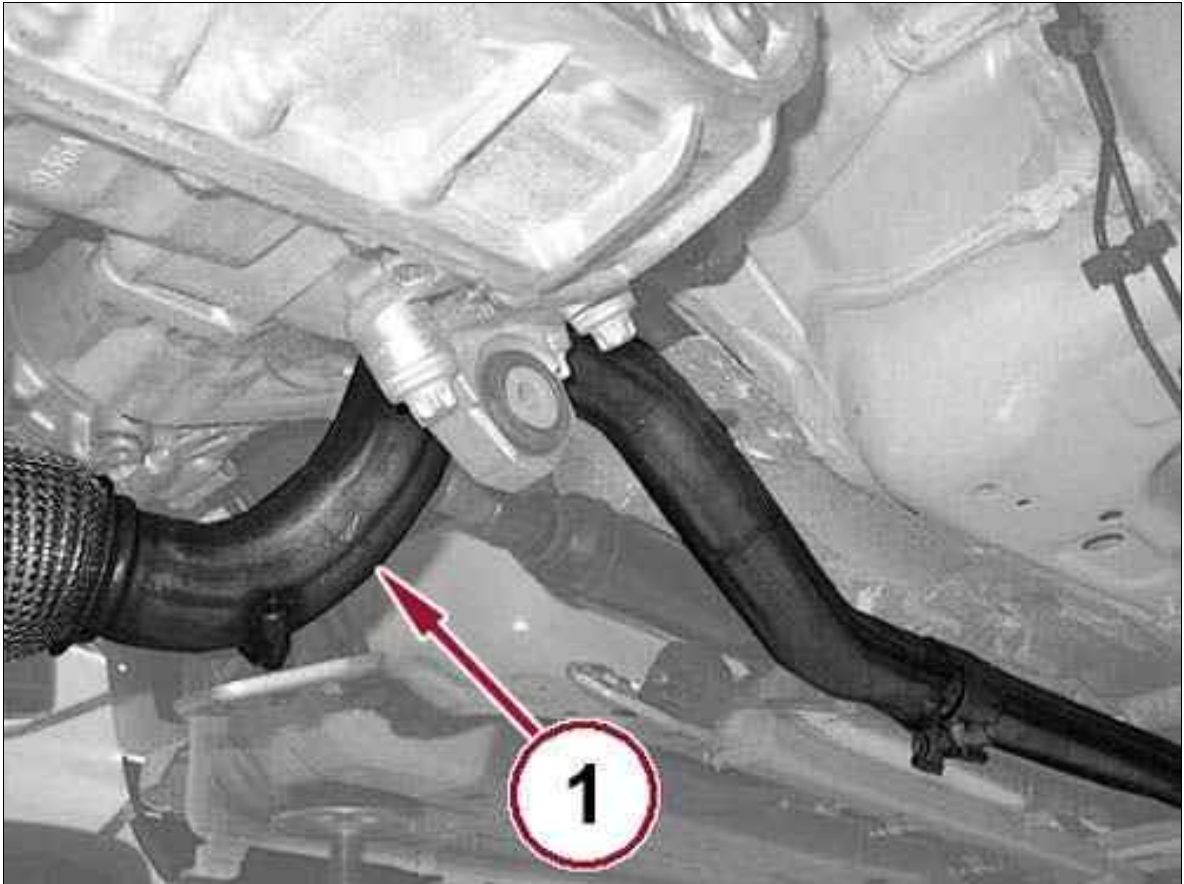
Courtesy of CHRYSLER GROUP, LLC

6. Install the rear engine mount isolator and tighten the bolts to the proper specification. Refer to TORQUE SPECIFICATIONS .
7. Install the exhaust and tighten the bolts.
8. Install the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .
9. Install the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
10. Verify that the PTU and transmission are filled to the specified fluid level. Refer to CAPACITIES AND RECOMMENDED FLUIDS, SPECIFICATIONS .
11. Lower the vehicle.
12. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.
13. When installing a **NEW** (PTU), connect the diagnostic scan tool, enter "miscellaneous functions" of the DriveTrain Control Module (DTCM) and run the self-learning procedure for the PTU.
14. Road test the vehicle to verify the repair.

REMOVAL AND INSTALLATION > 2.0 TURBO DIESEL -170 HP > REMOVAL

1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
2. Remove the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .

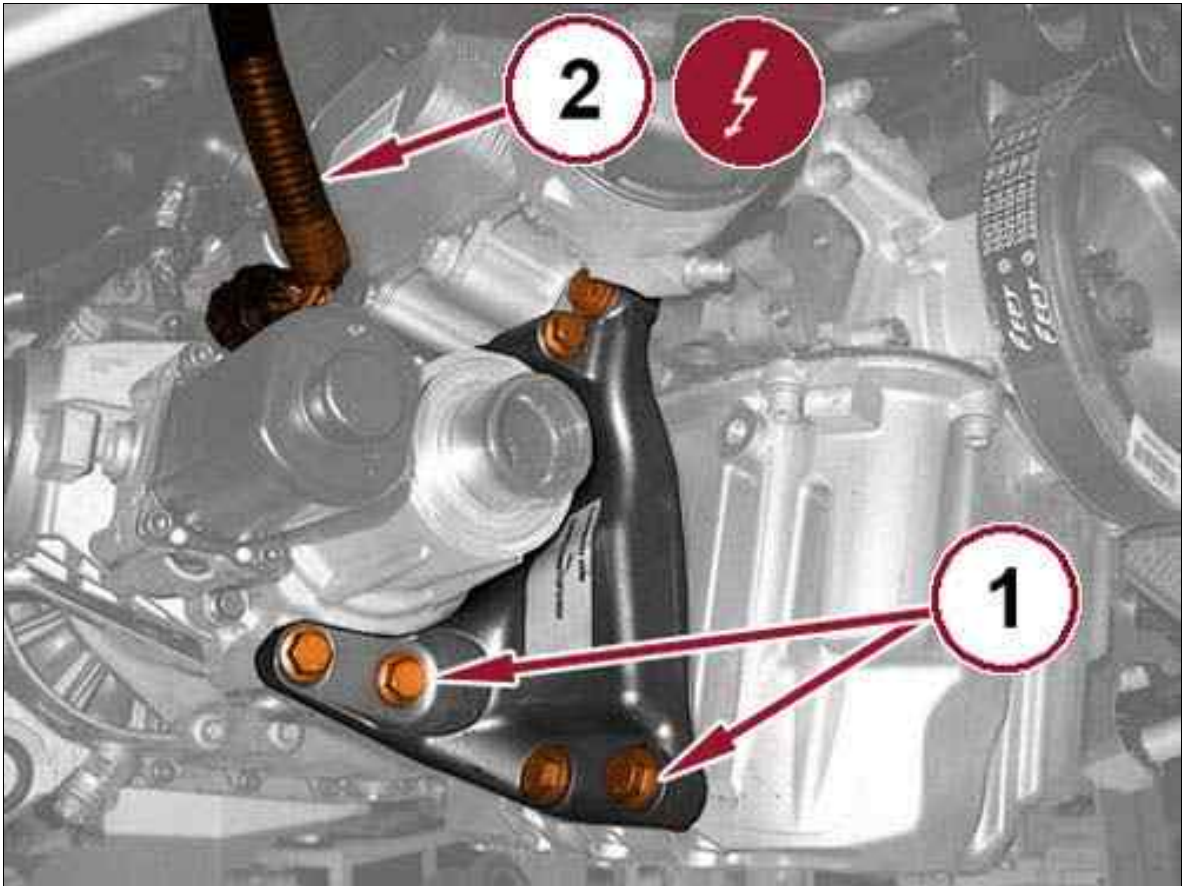
Fig 1: Crossunder Pipe



Courtesy of CHRYSLER GROUP, LLC

3. Remove the crossunder pipe (1).
4. Remove the right front halfshaft. Refer to REMOVAL AND INSTALLATION .

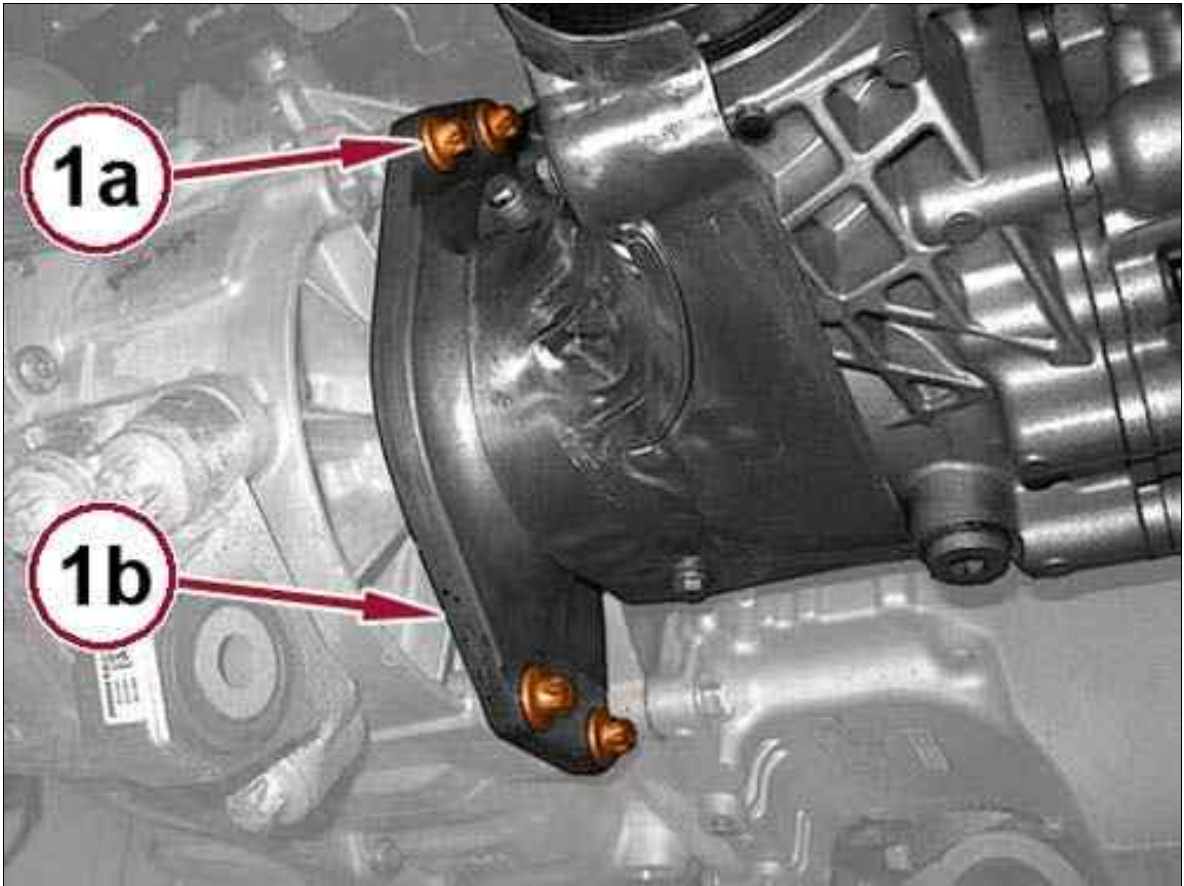
Fig 2: Power Transfer Unit Support Bracket Bolts & Connector



Courtesy of CHRYSLER GROUP, LLC

5. Remove the Power transfer Unit (PTU) support bracket bolts (1).
6. Disconnect the wire harness connector (2) of the PTU actuator.

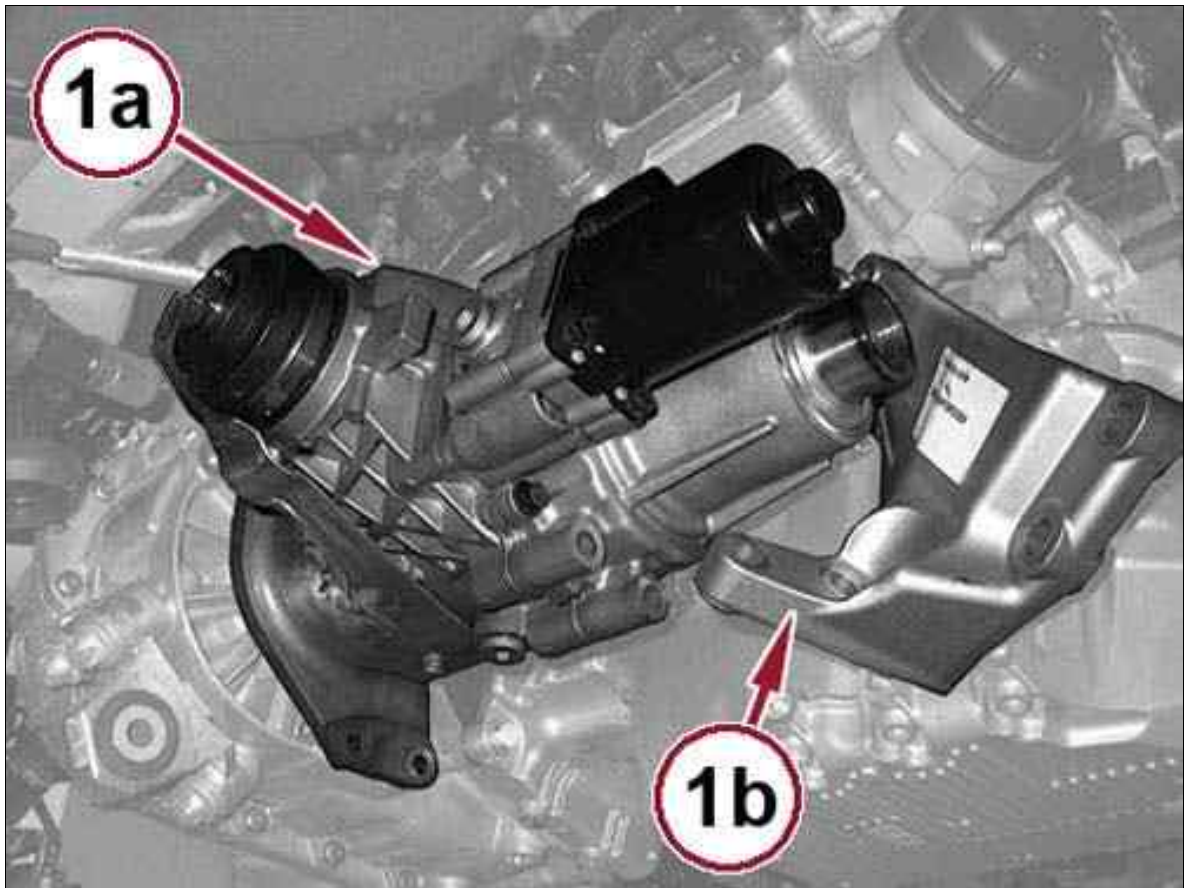
Fig 3: PTU & Bolts



Courtesy of CHRYSLER GROUP, LLC

7. Remove the bolts (1a) securing the PTU (1b) to the transmission.

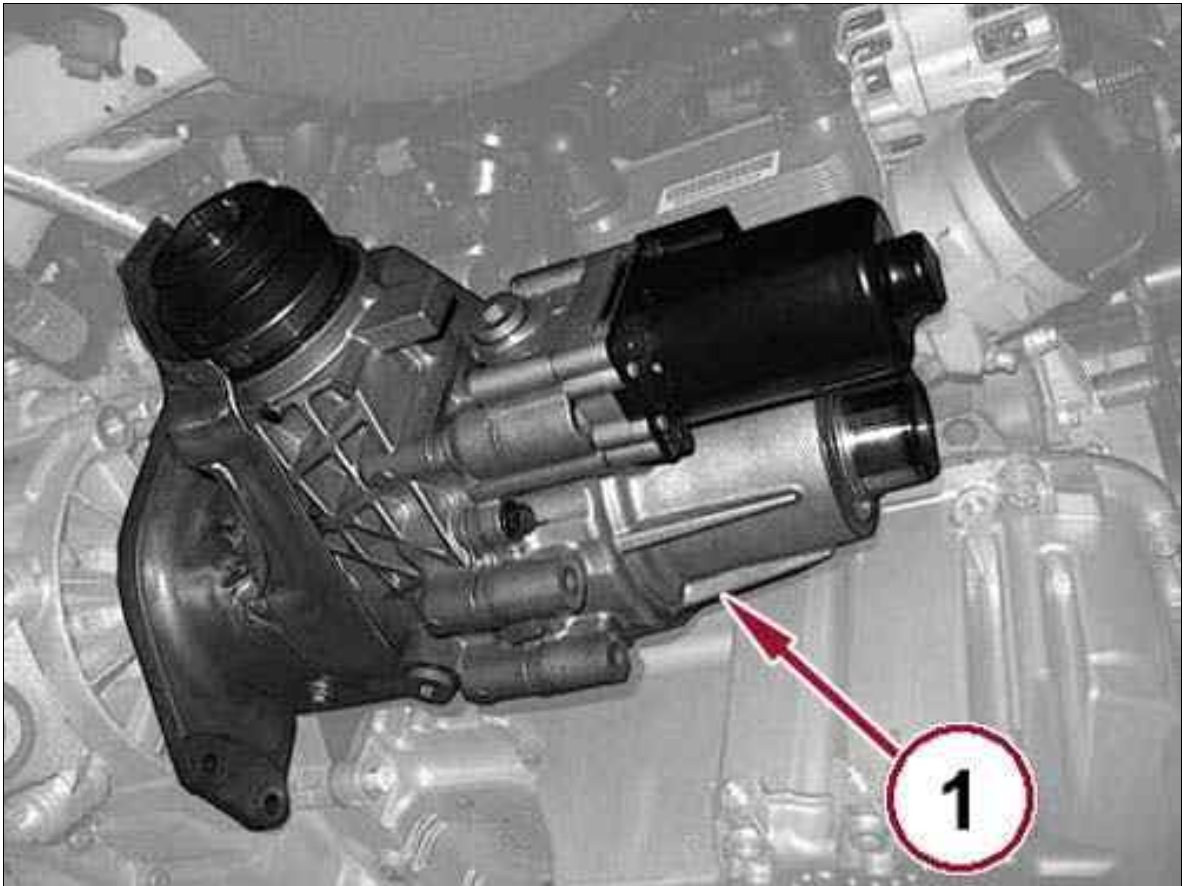
Fig 4: PTU & Support Bracket



Courtesy of CHRYSLER GROUP, LLC

8. Separate the PTU (1a) from the transmission far enough to remove the support bracket (1b).

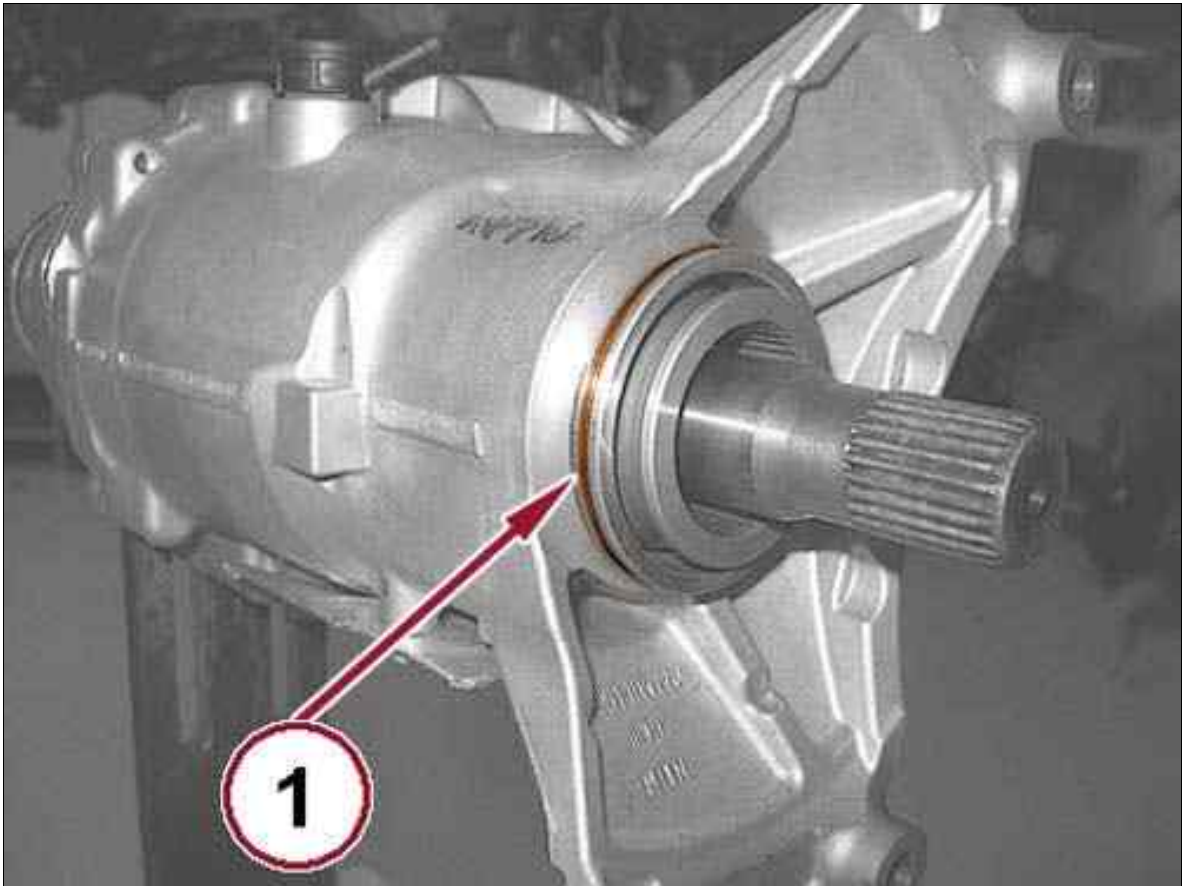
Fig 5: PTU



Courtesy of CHRYSLER GROUP, LLC

9. Remove the PTU (1) from the vehicle.

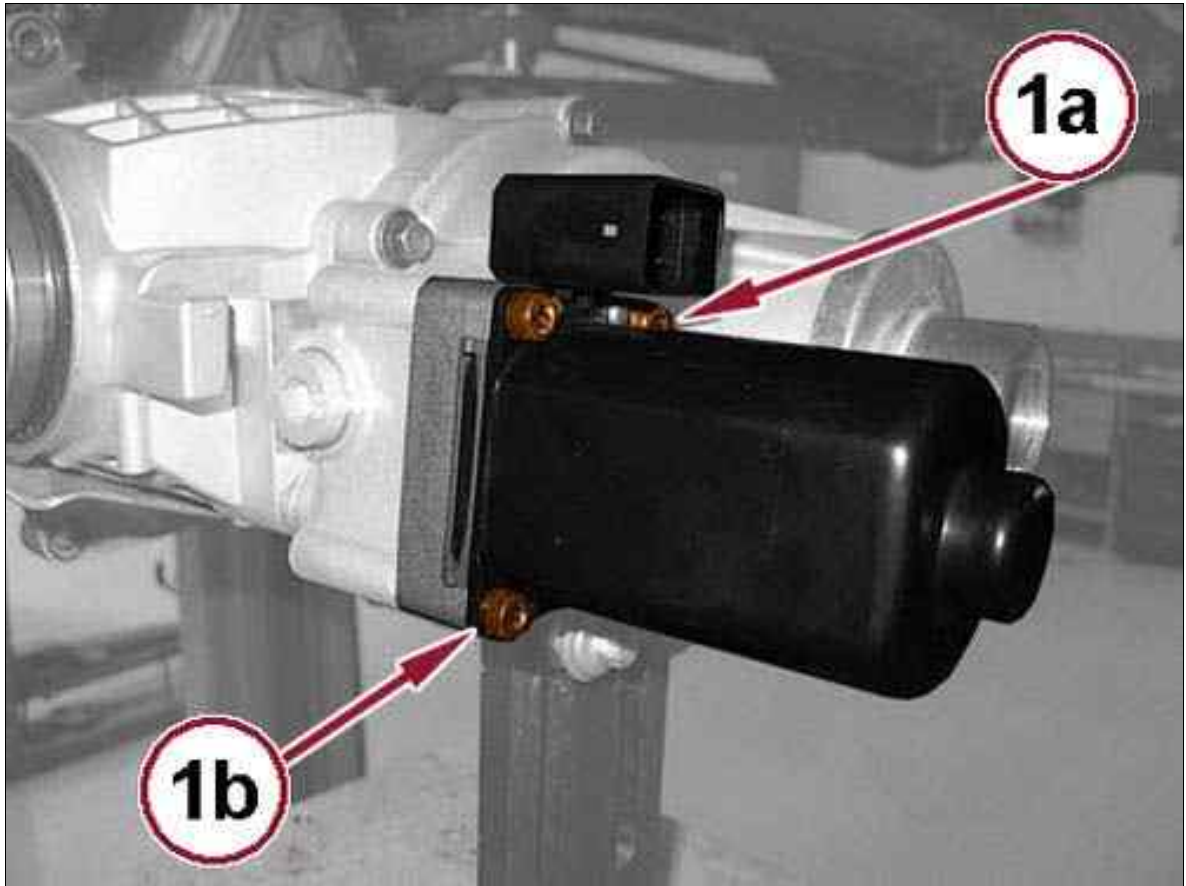
Fig 6: O-Ring



Courtesy of CHRYSLER GROUP, LLC

10. Remove and discard the O-ring (1).

Fig 7: PTU Actuator & Bolts



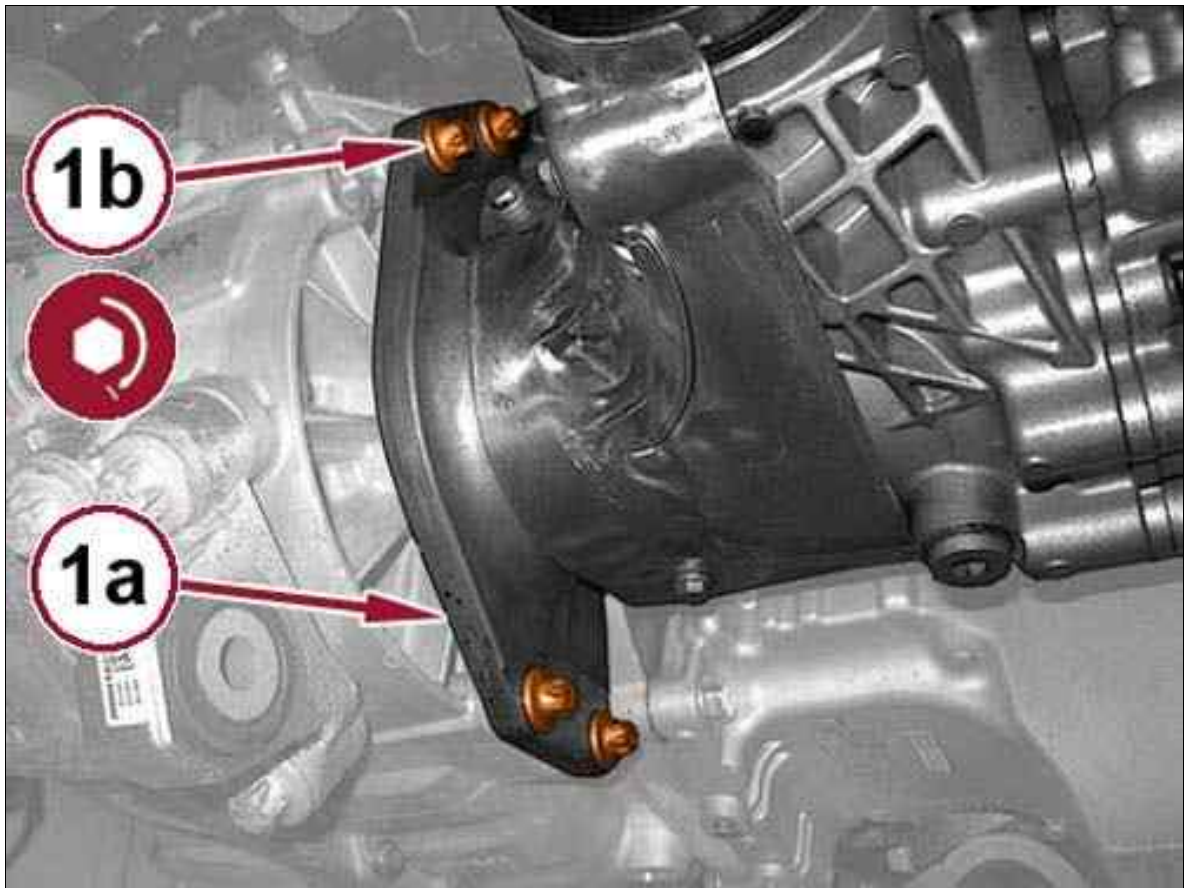
Courtesy of CHRYSLER GROUP, LLC

11. If necessary, remove the bolts (1a) and remove the PTU actuator (1b).

REMOVAL AND INSTALLATION > 2.0 TURBO DIESEL -170 HP > INSTALLATION

1. If removed, install the Power Transfer Unit (PTU) actuator and tighten the bolts.

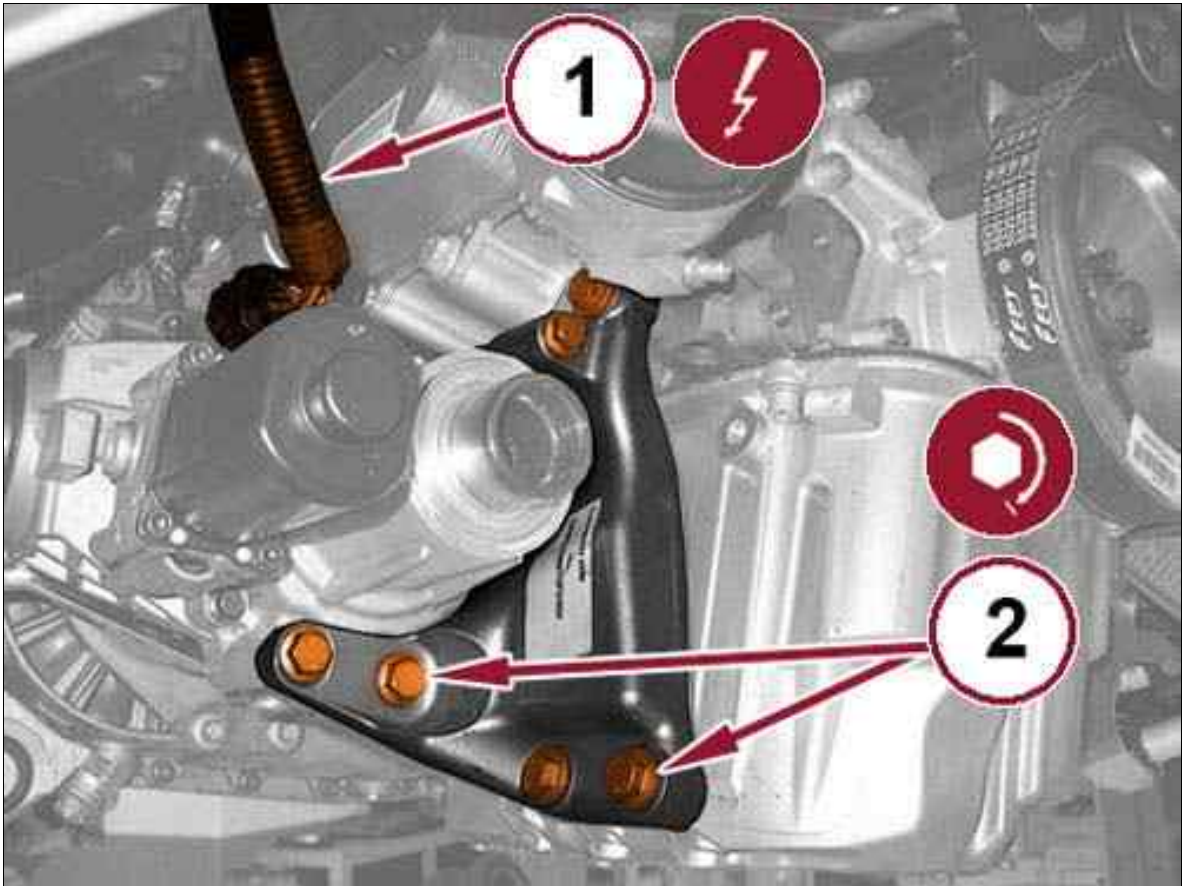
Fig 1: PTU & Mounting Bolts



Courtesy of CHRYSLER GROUP, LLC

2. Install the PTU (1a) complete with a **NEW** O-ring and the support bracket in position, tighten the PTU mounting bolts (1b) to the proper specification. Refer to SPECIFICATIONS .

Fig 2: Power Transfer Unit Support Bracket Bolts & Connector



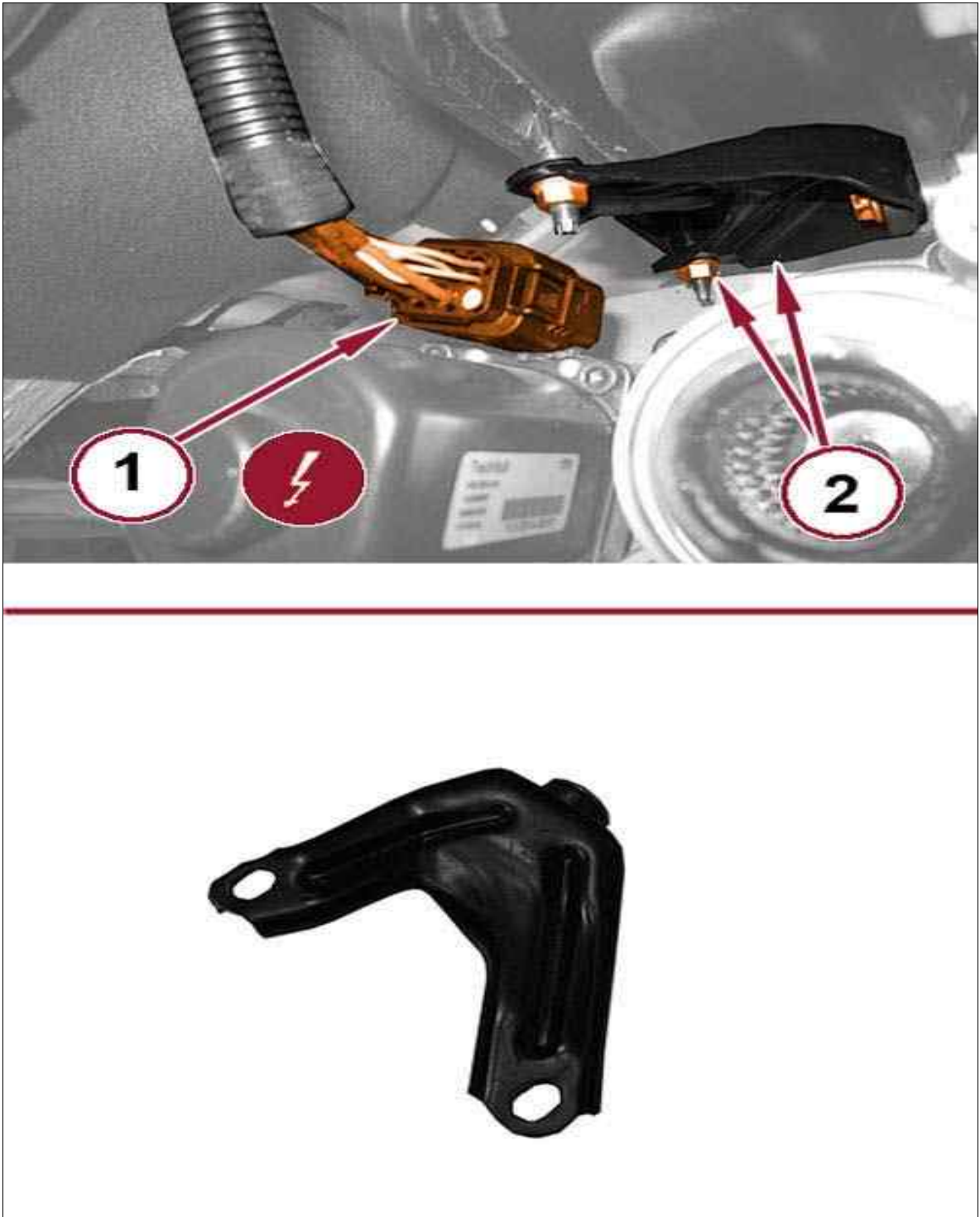
Courtesy of CHRYSLER GROUP, LLC

3. Connect the wire harness connector (1) to the PTU actuator.
4. Install the PTU support bracket bolts and (2) to the proper specification. Refer to SPECIFICATIONS .
5. Install the crossunder pipe and tighten the bolts.
6. Install the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .
7. Install the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
8. Verify that the PTU and transmission are filled to the specified fluid level. Refer to CAPACITIES AND RECOMMENDED FLUIDS, SPECIFICATIONS .
9. Lower the vehicle.
10. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.
11. When installing a **NEW** (PTU), connect the diagnostic scan tool, enter "miscellaneous functions" of the DriveTrain Control Module (DTCM) and run the self-learning procedure for the PTU.
12. Road test the vehicle to verify the repair.

REMOVAL AND INSTALLATION > 2.4L MULTIAIR > REMOVAL

1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
2. Remove the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
3. Remove the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .

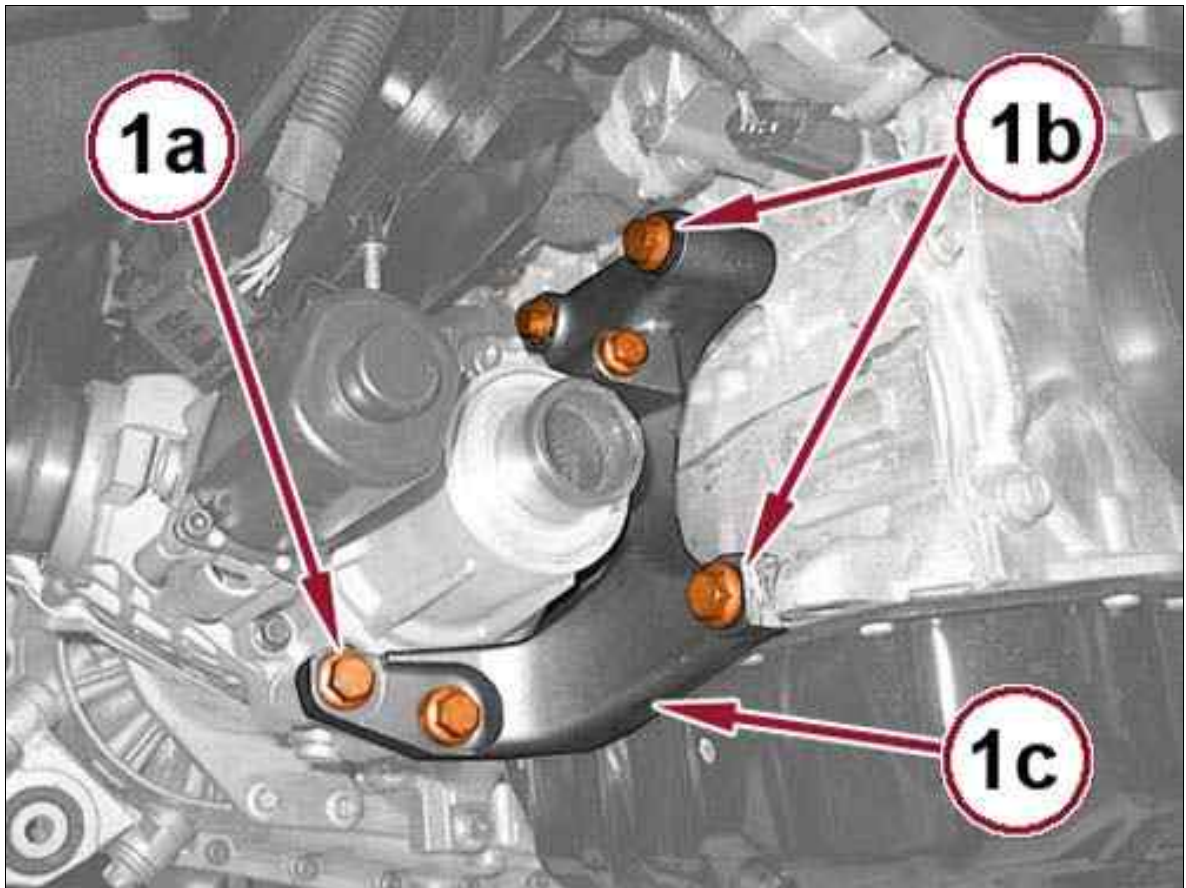
Fig 1: Intake Manifold Support Bracket, Nuts & Connector



Courtesy of CHRYSLER GROUP, LLC

4. Disconnect the wire harness connector (1) of the PTU actuator.
5. Remove the intake manifold support bracket nuts and the bracket (2).

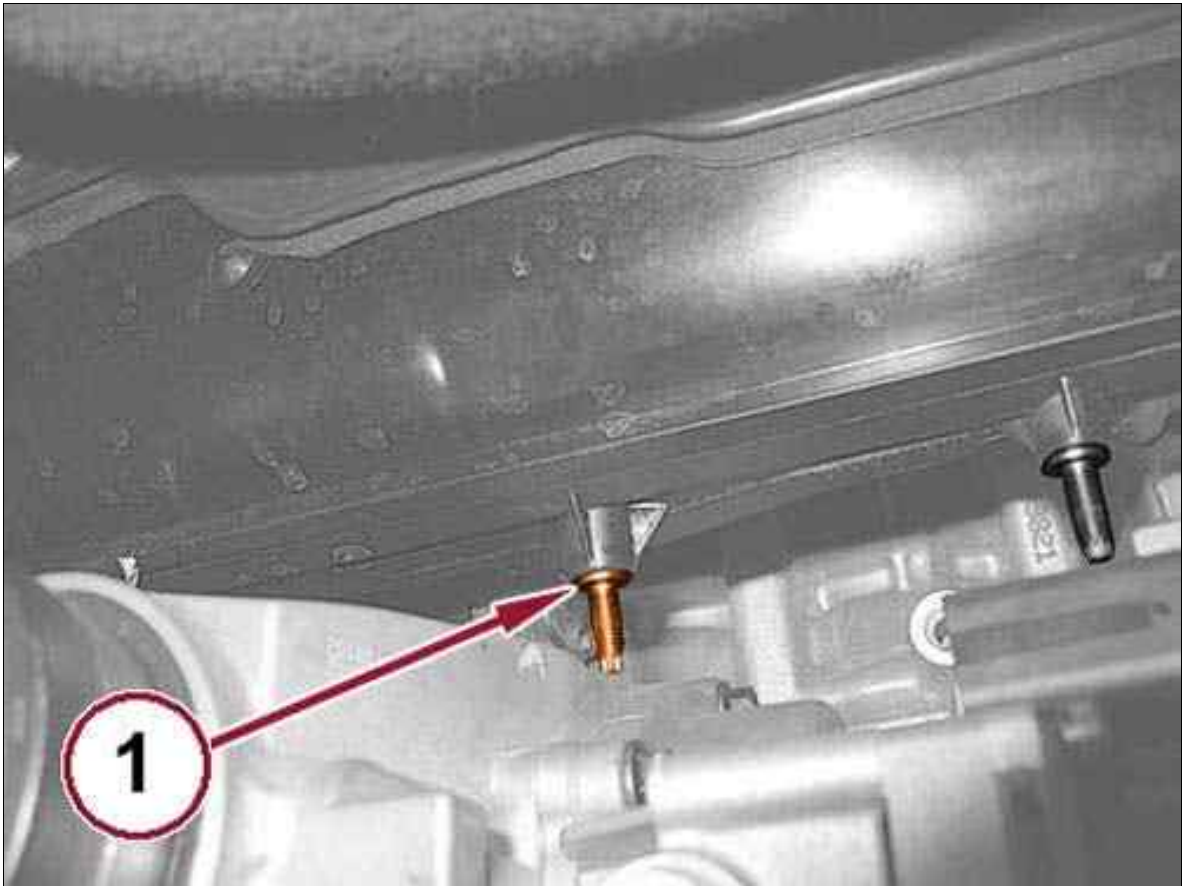
Fig 2: PTU Support Bracket & Bolts



Courtesy of CHRYSLER GROUP, LLC

6. Remove the bolts (1a), (1b) and remove the Power transfer Unit (PTU) support bracket (1c).

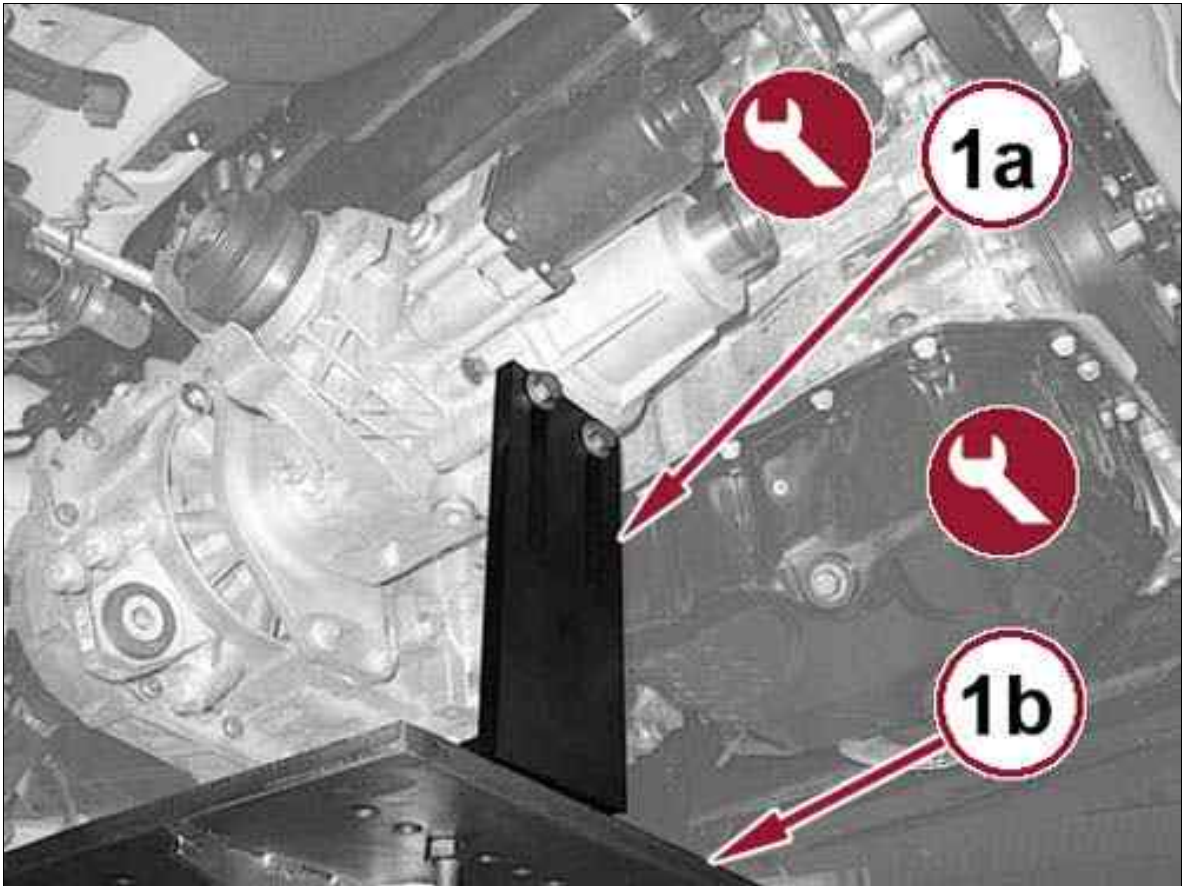
Fig 3: Intake Manifold Bracket Stud



Courtesy of CHRYSLER GROUP, LLC

7. Remove the intake manifold bracket stud (1) shown in illustration from the intake manifold.

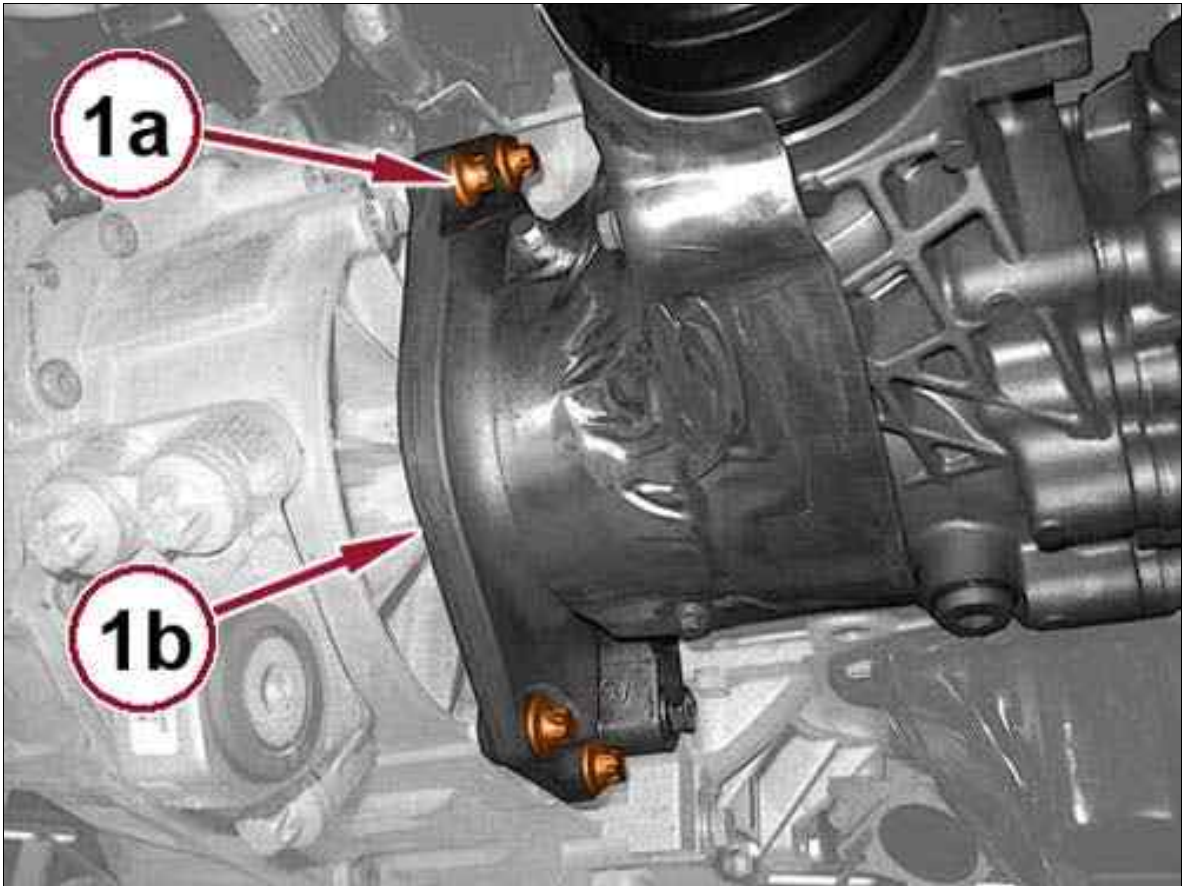
Fig 4: Supporting PTU With Special Tools



Courtesy of CHRYSLER GROUP, LLC

8. Support the PTU using tools 1870847000 (1a) and 1870835001 (1b) as shown in illustration.

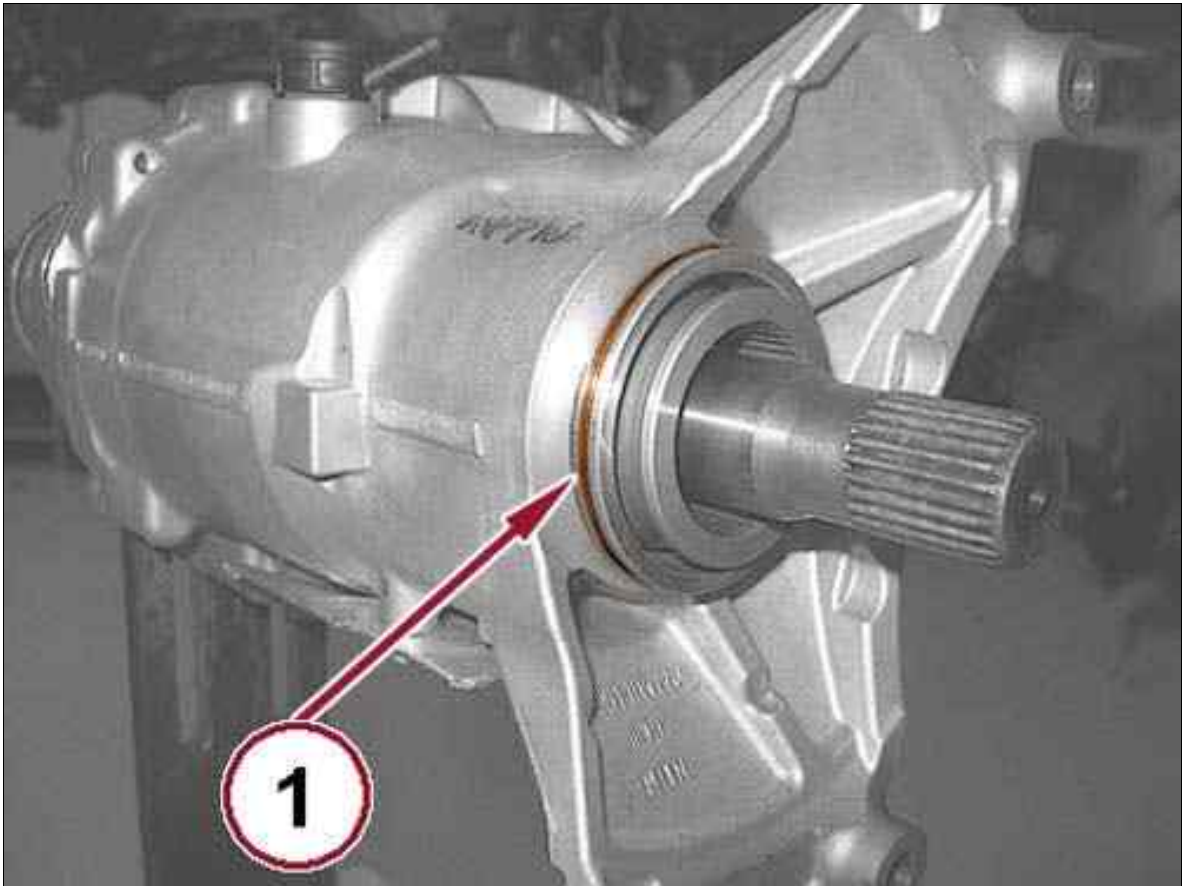
Fig 5: PTU & Bolts



Courtesy of CHRYSLER GROUP, LLC

9. Remove the bolts (1a) and remove the PTU (1b) from the vehicle.

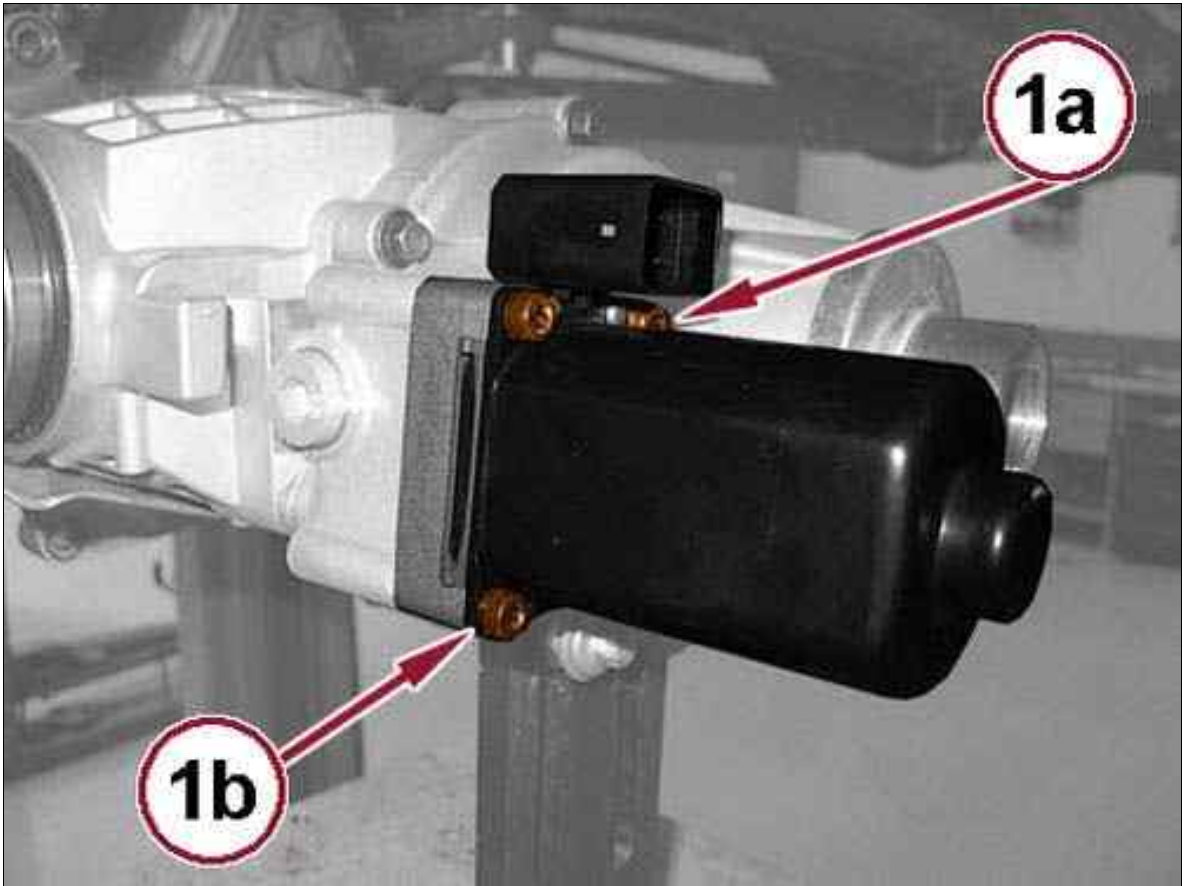
Fig 6: O-Ring



Courtesy of CHRYSLER GROUP, LLC

10. Remove and discard the O-ring.

Fig 7: PTU Actuator & Bolts



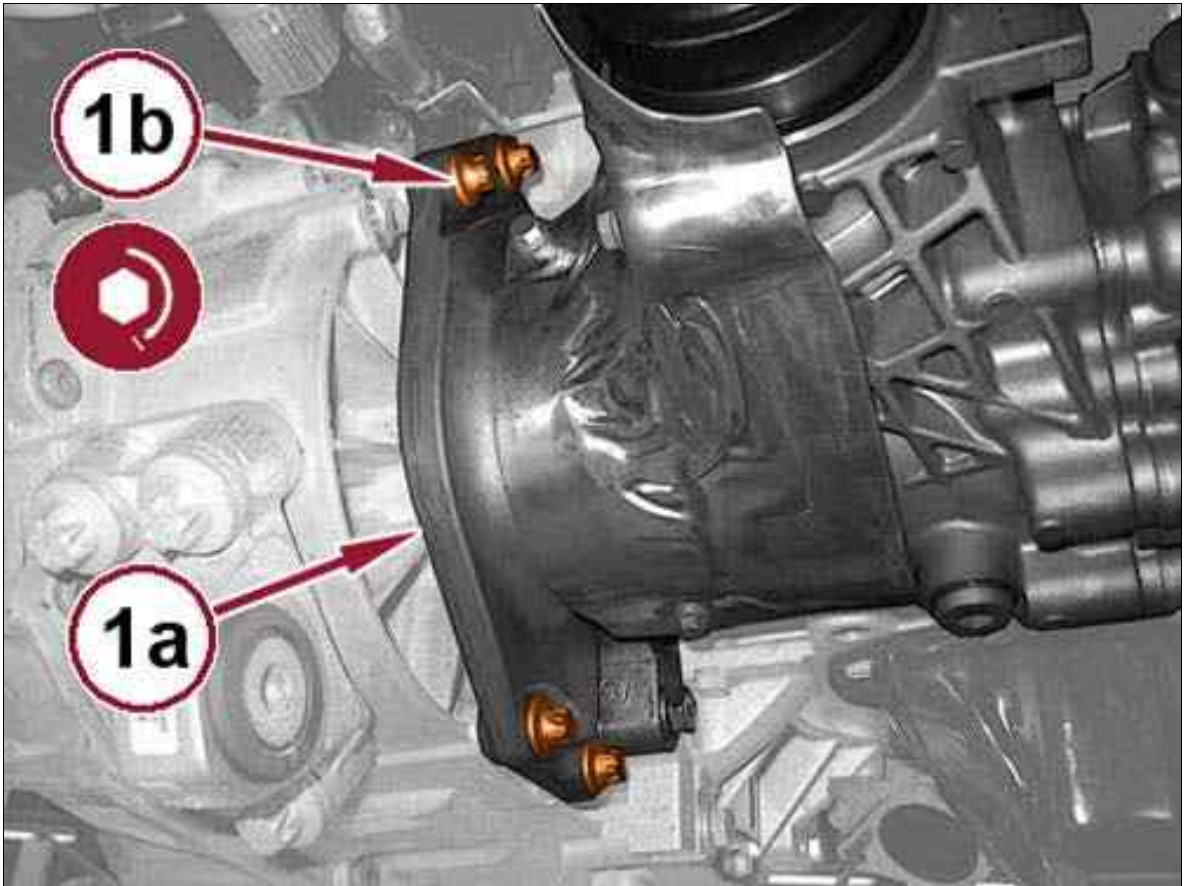
Courtesy of CHRYSLER GROUP, LLC

11. If required, remove the bolts (1a) and remove the PTU actuator (1b).

REMOVAL AND INSTALLATION > 2.4L MULTIAIR > INSTALLATION

1. If removed, install the Power Transfer Unit (PTU) actuator and tighten the bolts.

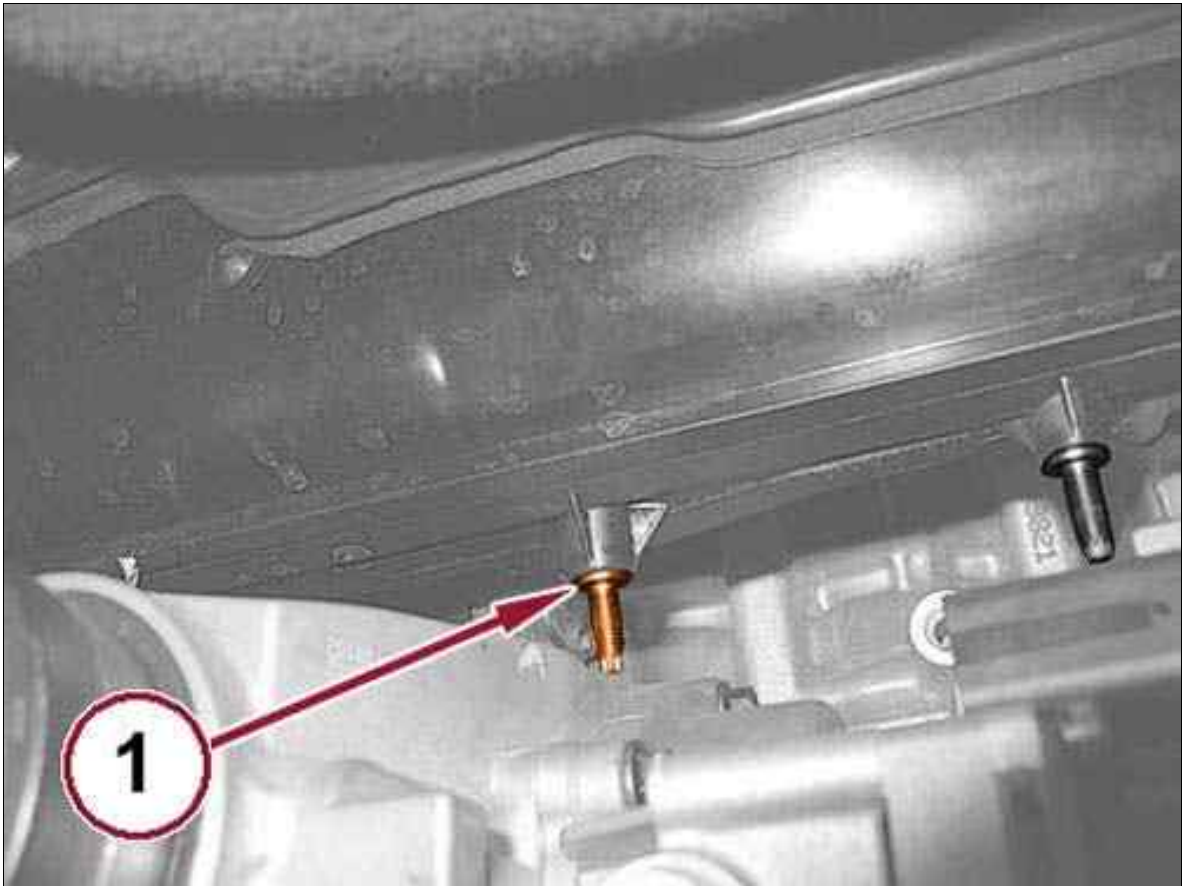
Fig 1: PTU & Bolts



Courtesy of CHRYSLER GROUP, LLC

2. With the tools 1870847000 and 1870835001 install the PTU (1a) complete with a **NEW** O-ring and tighten the bolts (1b) to the proper specification. Refer to SPECIFICATIONS .
3. Remove the PTU support tools.

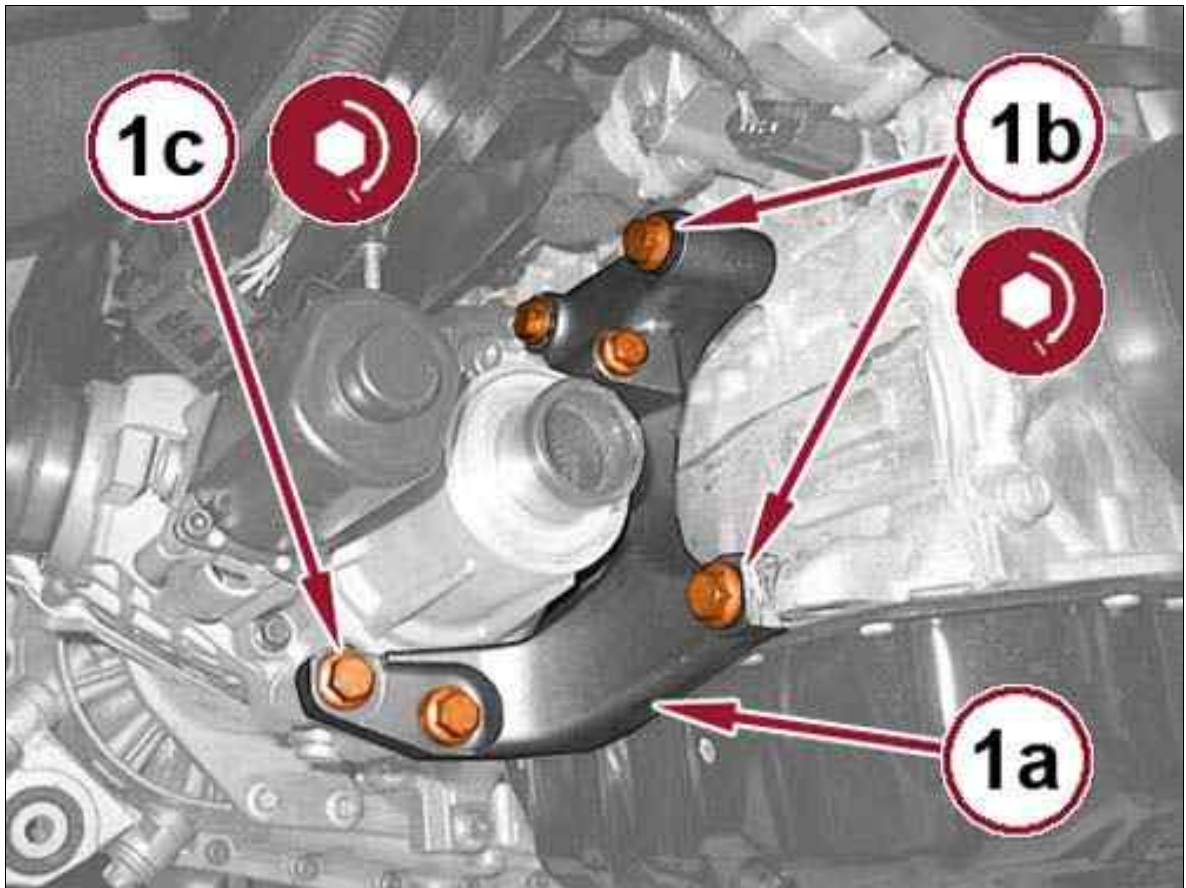
Fig 2: Intake Manifold Bracket Stud



Courtesy of CHRYSLER GROUP, LLC

4. Install the intake manifold support bracket stud (1) into the intake manifold.

Fig 3: PTU Support Bracket & Bolts



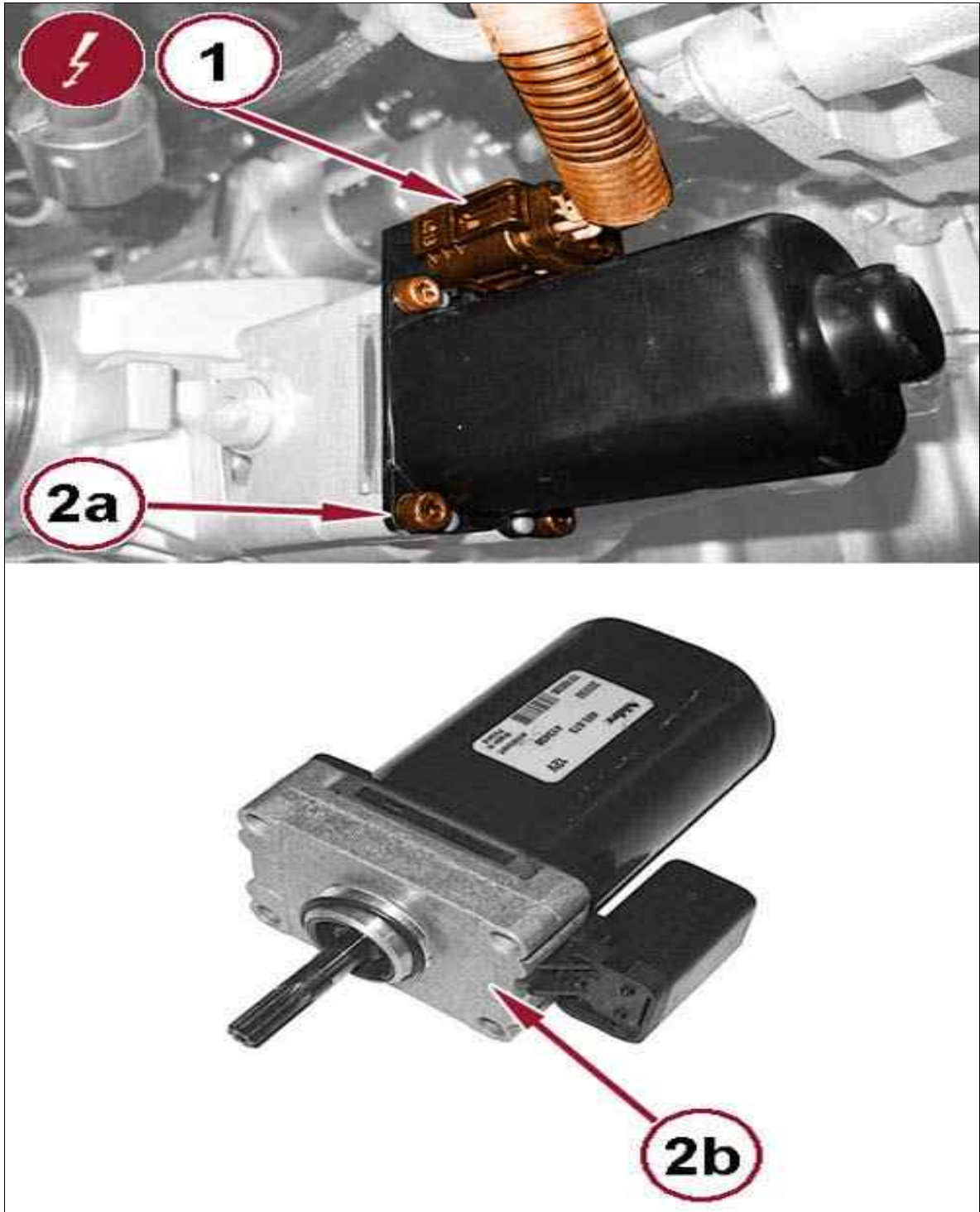
Courtesy of CHRYSLER GROUP, LLC

5. Install the PTU support bracket (1a) then tighten the bolts (1b) and (1c) to the proper specification. Refer to SPECIFICATIONS .
6. Install the intake manifold support bracket and tighten the nuts.
7. Connect the wire harness connector to the PTU actuator.
8. Install the front suspension crossmember. Refer to CROSSMEMBER, FRONT SUSPENSION, REMOVAL AND INSTALLATION .
9. Install the right front halfshaft. Refer to REMOVAL AND INSTALLATION .
10. Verify that the PTU and transmission are filled to the specified fluid level. Refer to CAPACITIES AND RECOMMENDED FLUIDS, SPECIFICATIONS .
11. Lower the vehicle.
12. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.
13. When installing a **NEW** (PTU), connect the diagnostic scan tool, enter "miscellaneous functions" of the DriveTrain Control Module (DTCM) and run the self-learning procedure for the PTU.
14. Road test the vehicle to verify the repair.

ACTUATOR, SHIFT > REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION > SHIFT ACTUATOR REMOVAL

1. Raise and support the vehicle. Refer to HOISTING, STANDARD PROCEDURE .
2. Remove the right front tire and wheel assembly. Refer to REMOVAL AND INSTALLATION .

Fig 1: PTU Actuator, Connector & Bolts



3. Disconnect the wire harness connector (1) at the actuator.
4. Remove the actuator mounting bolts (2a) and separate the actuator from the Power transfer Unit (PTU).

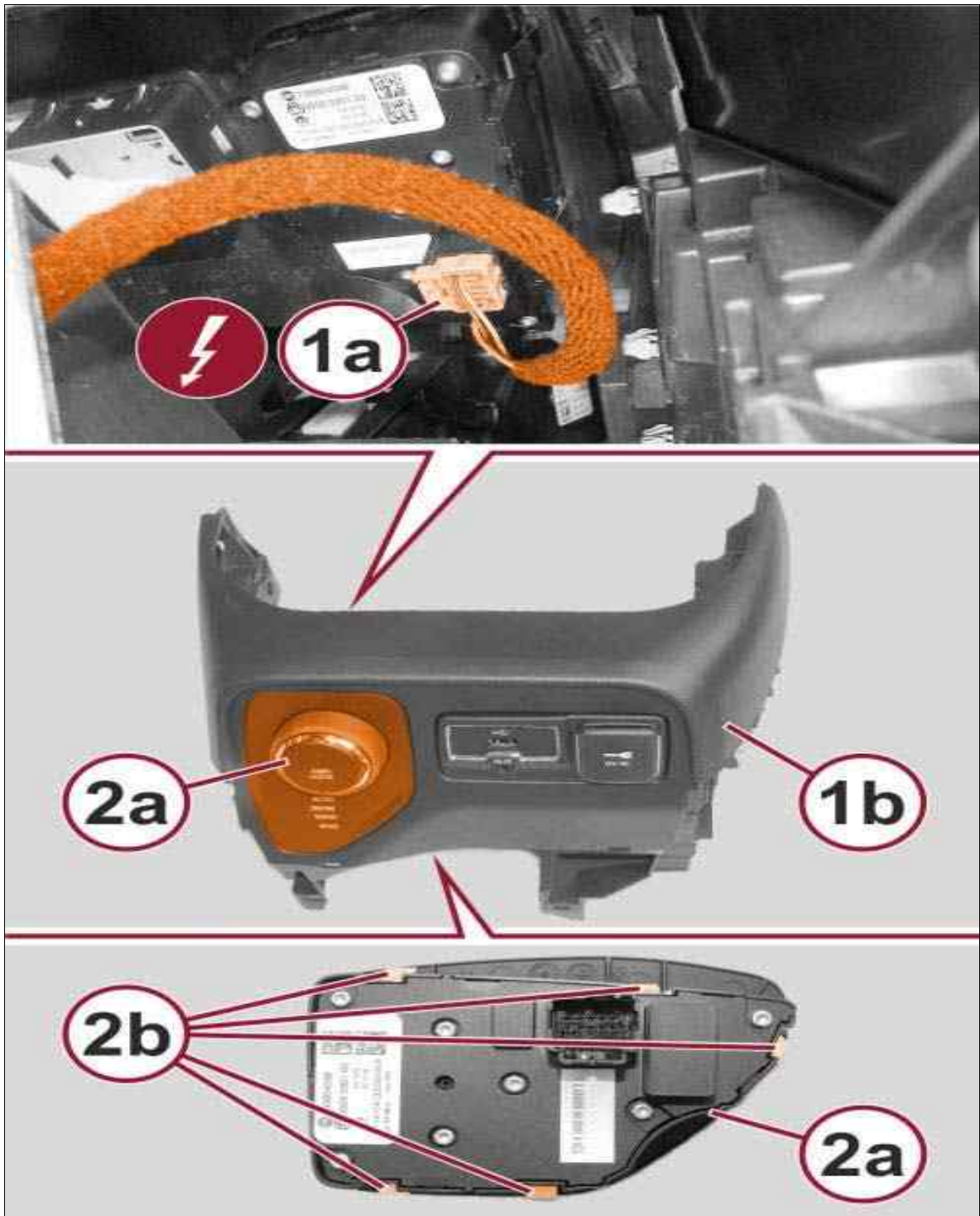
ACTUATOR, SHIFT > REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION > SHIFT ACTUATOR INSTALLATION

1. Position the actuator on the Power Transfer Unit and tighten the bolts.
2. Connect the wire harness connector at the actuator.
3. Install the right front tire and wheel assembly. Refer to REMOVAL AND INSTALLATION .

SWITCH, TRANSFER CASE > REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION > REMOVAL

1. Disconnect and isolate the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector first before disconnecting the negative battery cable.
2. Remove the floor console. Refer to CONSOLE, FLOOR, REMOVAL AND INSTALLATION .
3. Remove the media hub. Refer to MEDIA HUB, REMOVAL AND INSTALLATION .

Fig 1: PTU Switch, Media Hub, Clips & Connector



Courtesy of CHRYSLER GROUP, LLC

4. Disconnect the Power Transfer Unit (PTU) switch wire harness connector (a) and remove the media hub (1b) from the vehicle.
5. Using a suitable trim stick, remove the PTU switch (2a) from the media hub. The switch is held in the media hub by retaining clips (2b).

SWITCH, TRANSFER CASE > REMOVAL AND INSTALLATION > REMOVAL AND INSTALLATION > INSTALLATION

1. Inspect the Power Transfer Unit (PTU) switch for damage.
2. Install the PTU switch into the media hub, verifying the retaining clips are properly seated.
3. Connect the PTU switch wire harness connector.
4. Install the media hub. Refer to MEDIA HUB, REMOVAL AND INSTALLATION .
5. Install the floor console. Refer to CONSOLE, FLOOR, REMOVAL AND INSTALLATION .
6. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector to the negative battery cable.