



Process: **Airbrake Upgrade Kit to Complete the Repairs per NHTSA ID 17V214**

**WORK INSTRUCTION**

For Cabover-Chassis

Department:	Assembly	Doc. No.:	WI-xxx-xxx	Author:	Chase Wilson
Area:	A-Series	Revision #:	Initial Release	Approved (Eng):	
Section:	Truck Body	Revision Date:	3/28/2017	Approved (Qty):	
Reference Doc:		Page:	1 of 13	Approved (Supv):	

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**PPE**



**Caution**

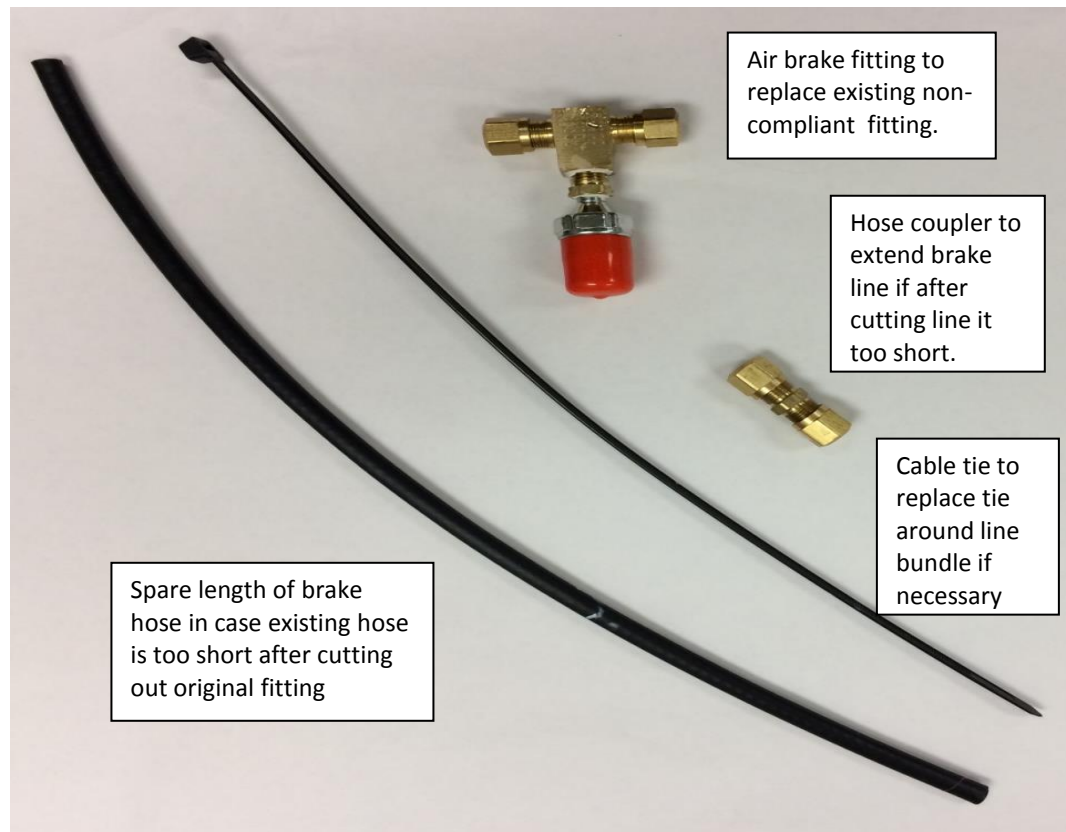


**Equipment / Materials**

Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 1**

**Illustration**



**Instruction Details**

1. Locate "Air Break Upgrade Kit"
2. Obtain Tools Required.
3. Obtain Hardware.


Schwarze #	Description	Qty
20529	3/8" Nylon Tubing	1 FT
66976	Tee, 3/8" Tube x 1/4" FNPT	1
65753	Parkbrake Intlock Switch	1
22442	Union, 3/8 Airbrake	1
21346	Bushing 1/4" Male NPT	1

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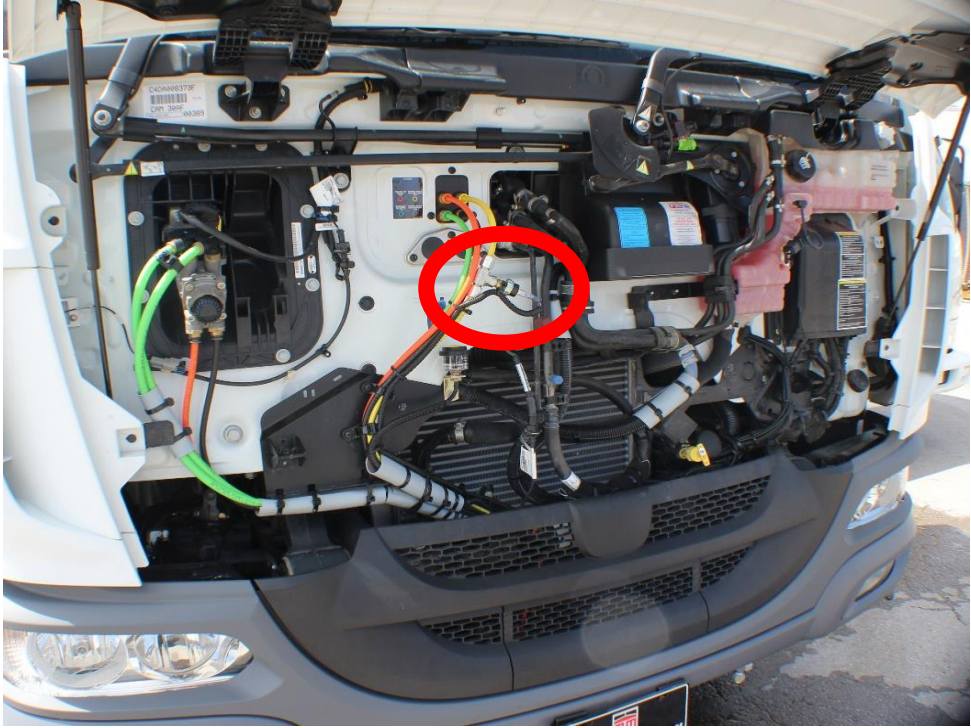
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 1**

Illustration	Instruction Details
<p align="center">Cabover-Chassis Existing Switch Fitting Removal</p> 	<p>4. Locate the Stock existing parking brake interlock switch.</p>

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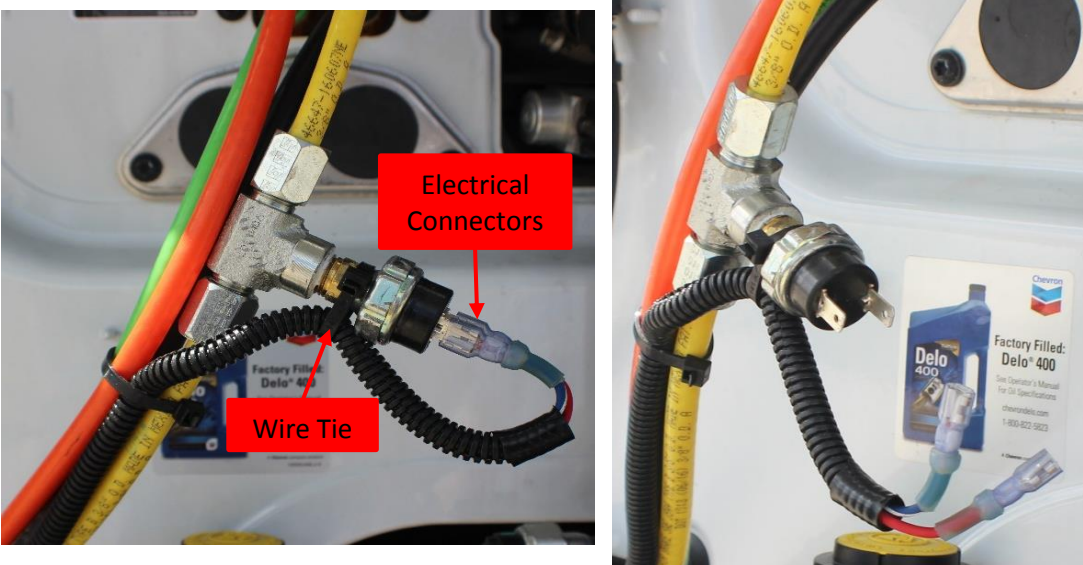
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter


**OPERATION # 2: Disconnect Wires**

Illustration	Instruction Details
	5. Disconnect the two electrical connectors from the existing Parkbrake Intlock Switch.
	6. Remove the wire tie located on the existing air brake assembly.

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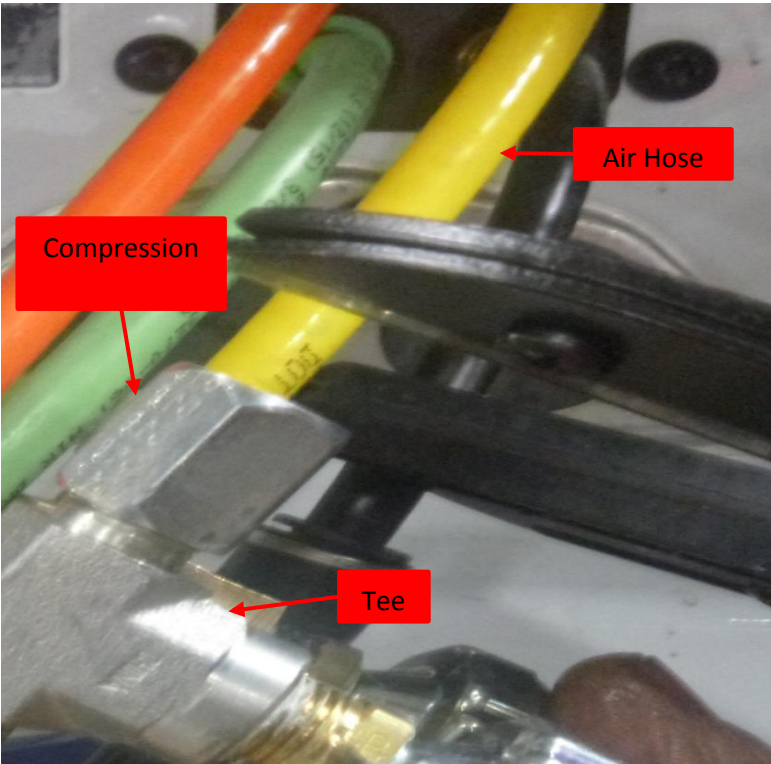
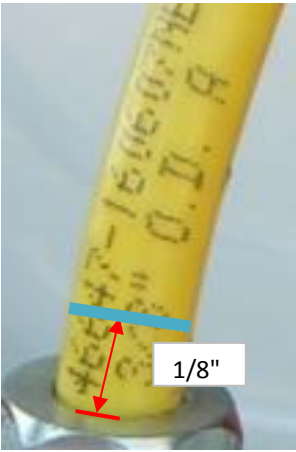
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter


**OPERATION # 3: Cut Out Existing Air Brake Fitting**

Illustration	Instruction Details
  <p style="text-align: center;"><b>Cut Along Blue Mark</b></p>	<p>7. Straighten the air hose running into the Tee. The hose should be perpendicular to the face of the Compression Nut located on Tee.</p>
	<p>8. Measure 1/8" from the face of the Compression Nut. Taking special care to not cut at an angle, cut the tubing at the measured 1/8" distance.</p>
	<p>9. Repeat the process for the opposite side of the Tee.</p>
	<p>10. Discard existing air brake fitting.</p>
	<p><b>Note:</b> Do not disassemble and remove the existing fitting. The airlines must be cut off to remove areas that are deformed by the existing fittings.</p>

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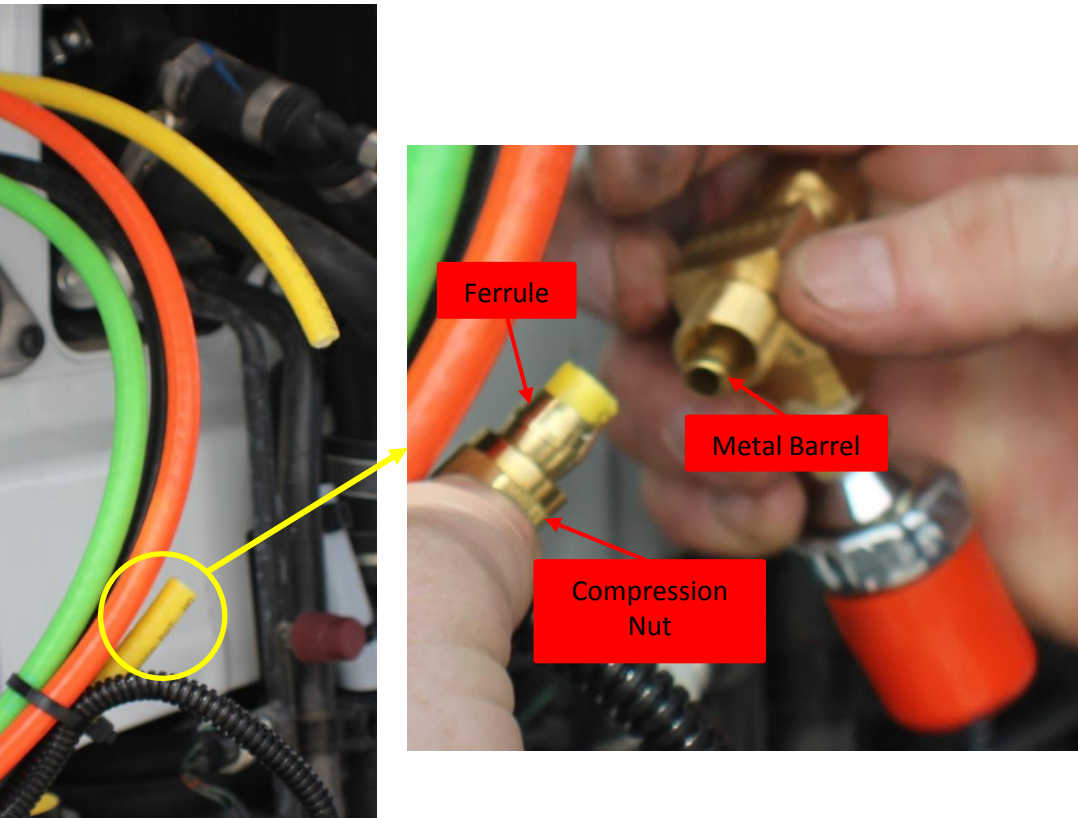
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter



**OPERATION # 4: Install New Air Brake Fitting**

Illustration	Instruction Details
	11. Place the Compression Nut onto the air hose. Next, place the Ferrule onto the same air hose.
	12. Slide the air hose over the metal barrel located on the Tee.

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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 3: Install New Air Brake Fitting (Continued)**


Illustration	Instruction Details
 	12. Begin to thread the Compression Nut onto the Tee. Make sure the air hose remains on the metal barrel.
	13. Using an adjustable wrench, hold the Tee as you hand-tighten the Compression Nut. When you are unable to tighten the nut anymore, use a 5/8" crescent wrench to tighten the Compression Nut an additional 4 turns.
	14. Repeat the process for the opposite side of the Tee.

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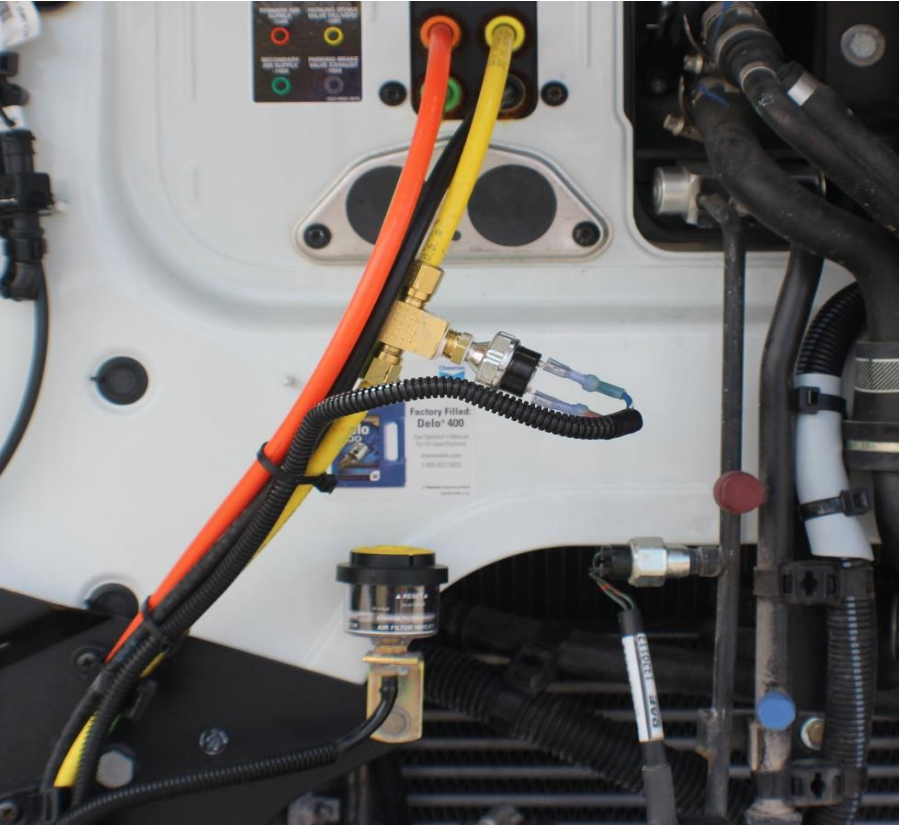
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 3: Install Brake Fitting (Continued)**

Illustration	Instruction Details
	15. Reconnect the two electrical connectors.
	16. Sign and verify

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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 1A**

Illustration	Instruction Details
<div style="background-color: yellow; padding: 5px; margin-bottom: 10px;">Conventional-Chassis Existing Switch Removal</div> 	<p>16. Locate the Stock existing parking brake interlock switch.</p>

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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 2A: Disconnect Wires**

Illustration	Instruction Details
	17. Disconnect the two electrical connectors from the existing Parkbrake Intlock Switch.
	18. Remove the wire tie located on the existing air brake assembly.

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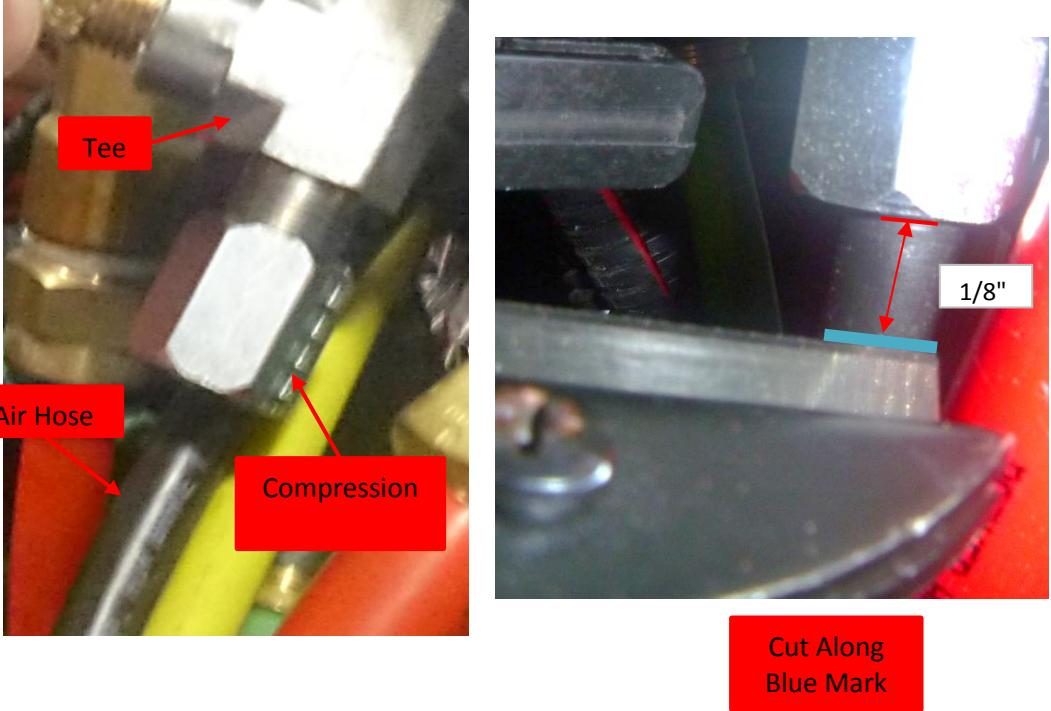
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter


**OPERATION # 2A: Cut Out Existing Switch**

Illustration	Instruction Details
 <p align="center"><b>Cut Along Blue Mark</b></p>	19. Straighten the air hose running into the Tee. The hose should be perpendicular to the face of the Compression Nut located on Tee.
	20. Measure 1/8" from the face of the Compression Nut. Taking special care to not cut at an angle, cut the tubing at the measured 1/8" distance.
	21. Repeat the process for the opposite side of the Tee.

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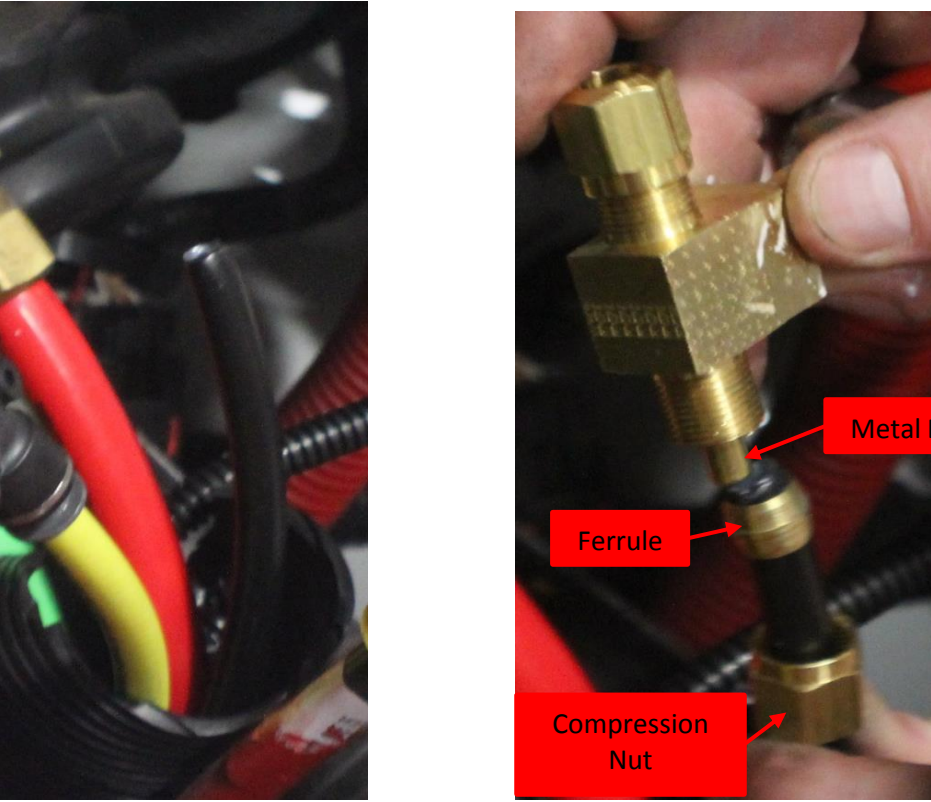
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 3A: Install Brake Fitting**

Illustration	Instruction Details
	22. Place the Compression Nut onto the air hose. Next, place the Ferrule onto the same air line.
	23. Slide the air hose over the metal barrel located on the Tee.

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Process: **Airbrake Upgrade Kit to Complete the Repairs per NHTSA ID 17V214**

**WORK INSTRUCTION**

**For Conventional Chassis**

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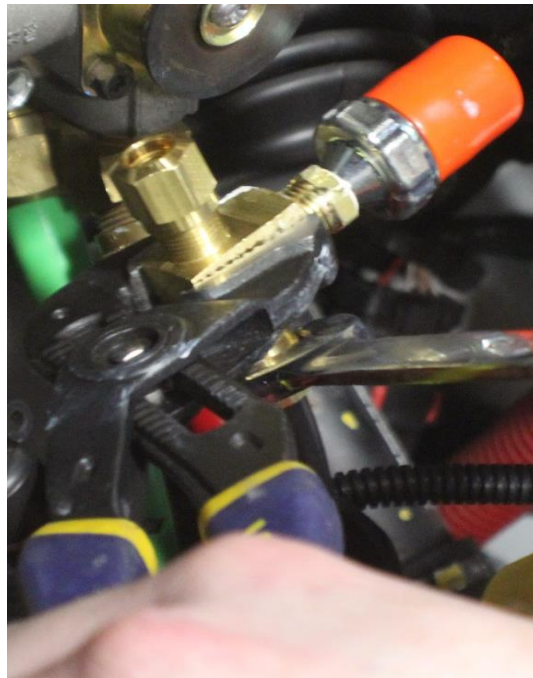
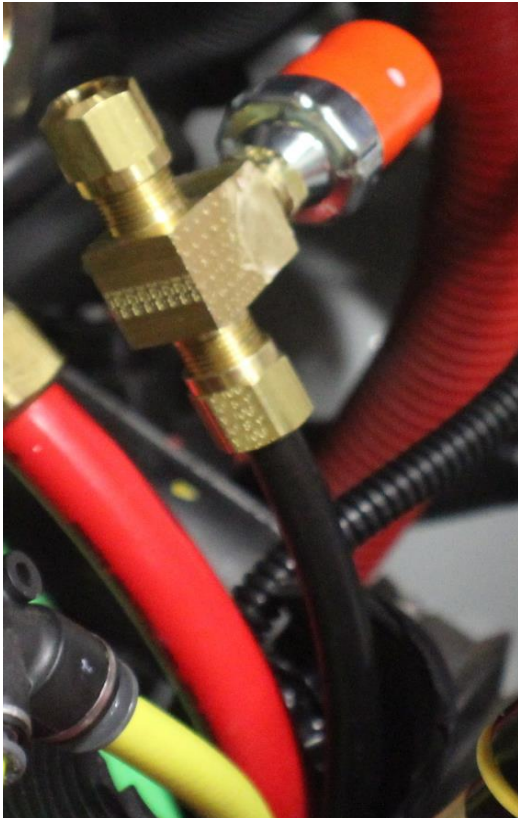


**Equipment / Materials**

Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 3A: Install Brake Fitting (Continued)**

**Illustration**



**Instruction Details**


- 24. Begin to thread the Compression Nut onto the Tee. Make sure the air hose remains on the metal barrel.
- 25. Using an adjustable wrench, hold the Tee as you hand-tighten the Compression Nut. When you are unable to tighten the nut anymore, use a 5/8" crescent wrench to tighten the Compression Nut an additional 4 turns.
- 26. Repeat the process for the opposite side of the Tee.

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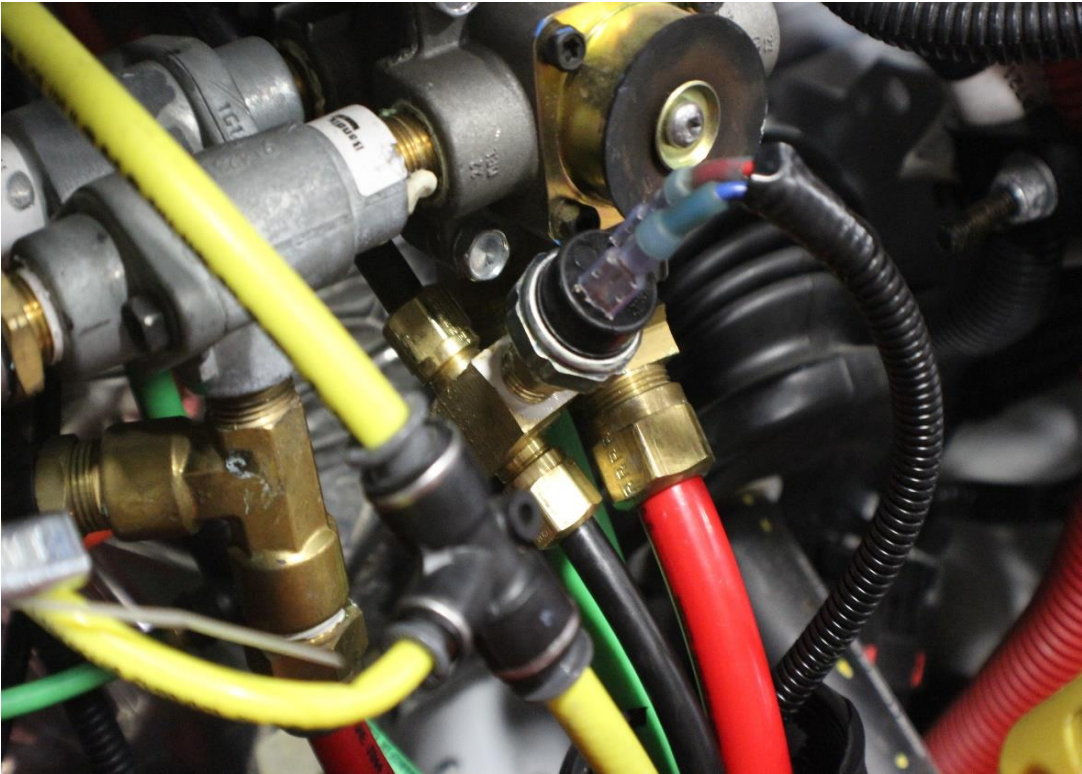
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**Equipment / Materials** Tools: Adjustable Crescent Wrench, 5/8" Crescent Wrench, Nylon Brake Hose Cutter

**OPERATION # 3A: Install Brake Fitting (Continued)**

Illustration	Instruction Details
	27. Reconnect the two electrical connectors.

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