

# Installation Manual

KIT # MC-3208, MC-3209  
2018-CURRENT  
HARLEY-DAVIDSON®  
SOFTAIL SERIES  
EXCLUDING FXDR MODELS



Congratulations on your purchase of an Arnott® Motorcycle Air Suspension system. This system provides you with the ability to maintain your bike at a constant level regardless of load, resulting in enhanced vehicle ride, handling, and performance. We at Arnott Incorporated are proud to offer a high quality product at the industry's most competitive pricing. Thank you for your confidence in us and our product.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install these components on your motorcycle. The removal and installation of air suspension products should only be performed by a fully qualified, ASE Certified, professional.

It is equally important to be aware of all necessary safety measures while installing your new Air Suspension System. This includes proper lifting and immobilizing of the motorcycle and isolation of any stored energy to prevent personal injury or property damage.

## "Elevate Your Ride®"



**DOWNLOAD YOUR TÜV CERTIFICATE HERE:**  
[ARNOTTCYCLES.EU/PAGES/TUV-CERTIFICATES](https://arnottcycles.eu/pages/tuv-certificates)

*According to TÜV regulation, an air pressure gauge must be installed together with the Arnott Motorcycle kit. Arnott recommends using their digital pressure gauge K-3114 or K-3115 with motorcycle kits that have been certified for this purpose*



**WARNING:** *DO NOT* inflate the air suspension system until it is installed. Inflation of the air suspension system before both ends are supported by the motorcycle's frame and/or appropriate suspension components may result in serious personal injury and/or damage to the air suspension system. The maximum recommended air spring inflation pressure is 200 psi.

Arnott® is committed to the quality of its products. If you have a question or problem with any Arnott product, please contact Arnott by calling **800-251-8993** during normal business hours or email [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com). (In the EU please call +31 (0)73 7850 580 or email [info@arnotteurope.com](mailto:info@arnotteurope.com))

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## BILL OF MATERIALS MC-3208 - HARLEY-DAVIDSON SOFTAIL, BLACK

### 20-12241 - INFLATION KIT, HARLEY-DAVIDSON SOFTAIL CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-3110	MICRO RELAY ASSEMBLY W/ HARNESS
1	21-7715	4MM VOSS FITTING ACCESSORY KIT
1	21-7271	HARNESS CABLE TIES ACCESSORY KIT
1	21-7272	SPLIT LOOM
1	21-2698	UNIVERSAL FUSE HOLDER ASSEMBLY KIT
1	21-12062	SOFTAIL COMPRESSOR ASSEMBLY
1	20-12211	SOFTAIL MOUNT KIT
1	11-MC-SOFTAIL2	MC-3208 & 3209 - INSTALL MANUAL

### 21-12243-B - SOFTAIL SHOCK KIT CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-12056	SHOCK ASSY, BLACK

### HANDLE BAR SWITCH KIT CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	29-9749	HANDLE BAR SWITCH, BLACK

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## BILL OF MATERIALS MC-3209 - HARLEY-DAVIDSON SOFTAIL, CHROME

### 20-12241 - INFLATION KIT, HARLEY-DAVIDSON SOFTAIL CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-3110	MICRO RELAY ASSEMBLY W/ HARNESS
1	21-7715	4MM VOSS FITTING ACCESSORY KIT
1	21-7271	HARNESS CABLE TIES ACCESSORY KIT
1	21-7272	SPLIT LOOM
1	21-2698	UNIVERSAL FUSE HOLDER ASSEMBLY KIT
1	21-12062	SOFTAIL COMPRESSOR ASSEMBLY
1	20-12211	SOFTAIL MOUNT KIT
1	11-MC-SOFTAIL2	MC-3208 & 3209 - INSTALL MANUAL

### 21-12243-B - SOFTAIL SHOCK KIT CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-12056	SHOCK ASSY, BLACK

### HANDLE BAR SWITCH KIT CONTAINS:

#### PARTS LIST

QTY	PART NO.	DESCRIPTION
1	29-9750	HANDLE BAR SWITCH, CHROME

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## GENERAL INFORMATION:

Reading this manual signifies your agreement to the terms of the general release, waiver of liability, and hold harmless agreement, the full text of which is available at [www.arnottcycles.com](http://www.arnottcycles.com).

- Avoid damage to air lines and electrical components.
- Removal and installation is only to be performed by fully qualified personnel.

**CAUTION:** Damage to the motorcycle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.

*Each owner or installer is unique, therefore installation of this system can be done many different ways. The mounting locations of the compressor and inflation switch are suggestions by our engineers. If proper wiring guidelines and instructions are followed, relocation of the compressor or switch will neither affect the system operation nor void your warranty.*

*Adjust air shock pressure as required for desired ride quality to maximize the benefits of your system. Excess pressure will result in a firmer ride, too little pressure will allow the suspension to bottom out.*



To avoid the possibility of short circuits while working with electric components consult your owner's manual on how to disconnect your battery.



Refer to the Owner's Manual for the bike and instructions for the motorcycle lift for all correct lifting procedures. It is also recommended that you protect any chrome or painted surfaces that may be damaged during lifting, removal or installation process.

Use a solid, level surface to position the bike on a motorcycle lift and use all recommended safety techniques. Lift the bike so the rear wheel is just slightly off the ground.

1. REMOVE THE SEAT AND BRACKET OVER LOWER END OF SHOCK. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

2. REMOVE RIGHT SIDE COVER AND SADDLE BAGS. (FIGURES 3, 4)



FIGURE 3



FIGURE 4

3. REMOVE REAR SUB-FRAME & FENDER. (FIGURES 5, 6)



FIGURE 5



FIGURE 6

4. LOOSEN PINCH BOLT AND REMOVE LOWER SHOCK BOLT. (FIGURES 7, 8)



FIGURE 7



FIGURE 8

5. REMOVE UPPER SHOCK BOLT AND REMOVE SHOCK. (FIGURES 9, 10)



FIGURE 9



FIGURE 10

6. LIFT REAR TIRE UNTIL SWINGARM IS BARLEY TOUCHING FRAME. BUNDLE THE COMPRESSOR WIRES IN THE SPLIT LOOM TO PREPARE FOR INSTALL. (FIGURES 11, 12)



FIGURE 11

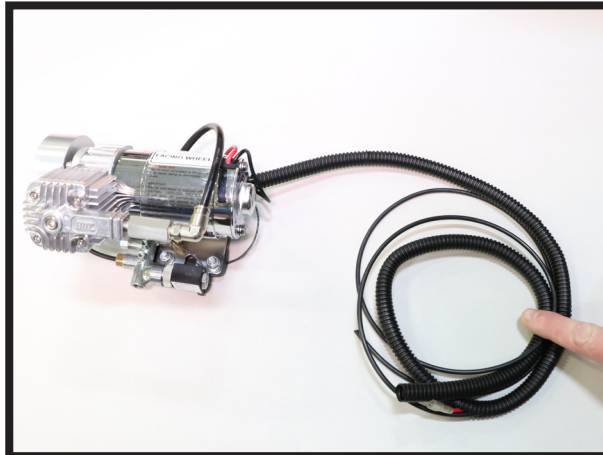


FIGURE 12

7. LOCATE THE EXISTING THREADED HOLES. APPLY BLUE LOCK TIGHT TO PROVIDED MOUNT BOLTS. MOUNT THE COMPRESSOR ASSEMBLY TO THE THREADED HOLES. (FIGURES 13, 14, 15)

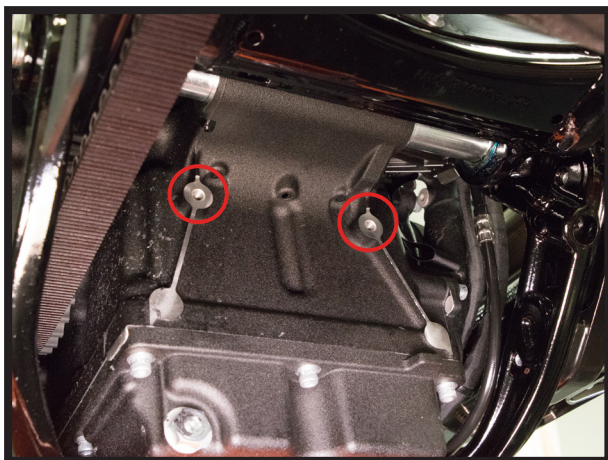


FIGURE 13



FIGURE 14



FIGURE 15

8. **NOTE: WHEN MOUNTED ON MOTORCYCLE, AIR FILTER VENT MUST BE POINTING TOWARD THE GROUND.**  
(FIGURE 16)

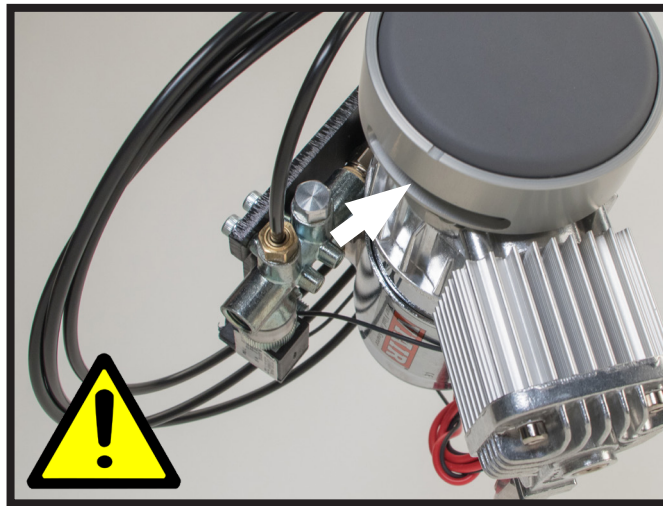


FIGURE 16

9. RUN BUNDLED SPLIT LOOM AND 4MM AIR LINE UP THE RIGHT SIDE OF FRAME. (FIGURE 17)

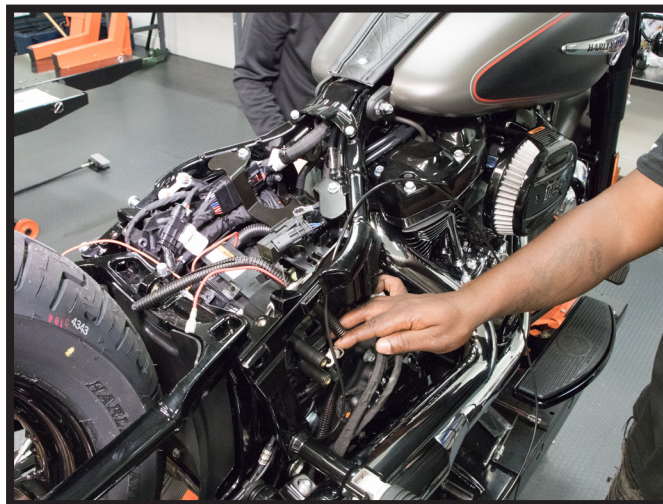


FIGURE 17



10. REMOVE THE LOWER CLUTCH PERCH BOLT. REUSING THE SCREW AND WASHER, ATTACH THE HANDLEBAR SWITCH TO THE PERCH WITH THE WASHER BETWEEN THE SWITCH MOUNT AND PERCH. ROUTE THE WIRES DOWN THE HANDLEBARS OR THE CLUTCH CABLE, UNDER THE FUEL TANK BACK TOWARDS THE BATTERY. FOLLOWING THE WIRING DIAGRAM IN THE BACK OF THIS MANUAL, COMPLETE THE ELECTRICAL CONNECTIONS. BUNDLE & TUCK ELECTRICAL COMPONENTS IN FRONT OF THE BATTERY. (FIGURES 18, 19, 20, 21)



FIGURE 18



FIGURE 19

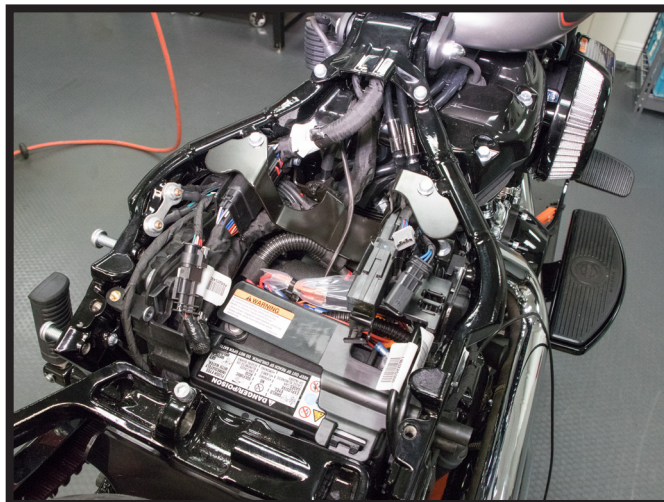


FIGURE 20



FIGURE 21

11. SECURE WIRE LOOM TO WIRE HARNESS USING SUPPLIED ZIP TIES, RUN AIR HOSE TOWARDS UPPER SHOCK MOUNTING BOLT. (FIGURE 22)

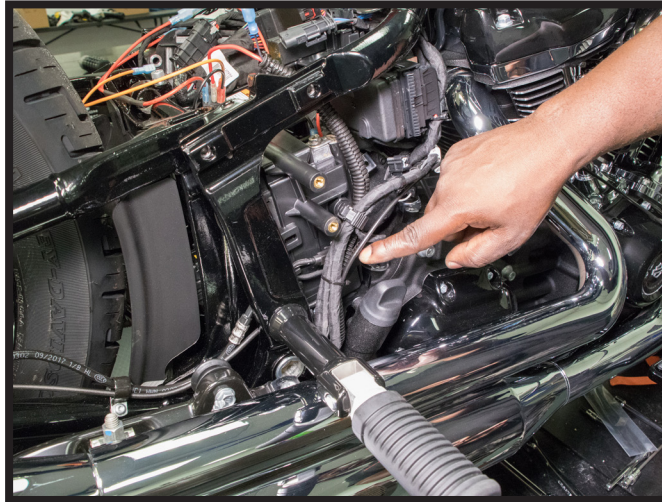


FIGURE 22

12. SCREW A VOSS FITTING INTO THE AIR SHOCK, FINGER TIGHT. THEN REMOVE THE WHITE PIN. INSERT THE 4MM AIR HOSE INTO THE FITTING UNTIL YOU FEEL IT SEAT. REMOVE THE FITTING FROM THE SHOCK AND CONFIRM THE KEEPER IS ON THE HOSE. REINSERT THE FITTING INTO THE SHOCK AND SNUG TIGHT WITH A WRENCH. (FIGURES 23, 24, 25, 26)

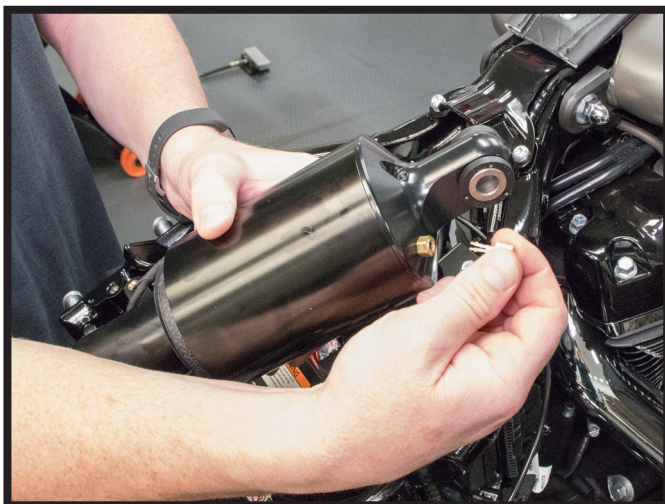


FIGURE 23



FIGURE 24

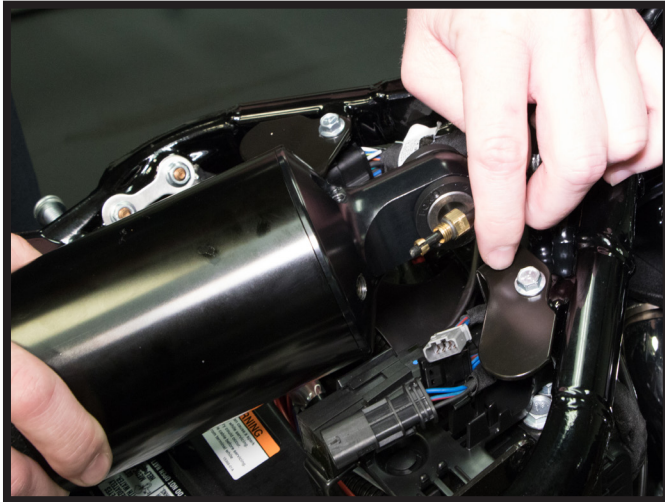


FIGURE 25

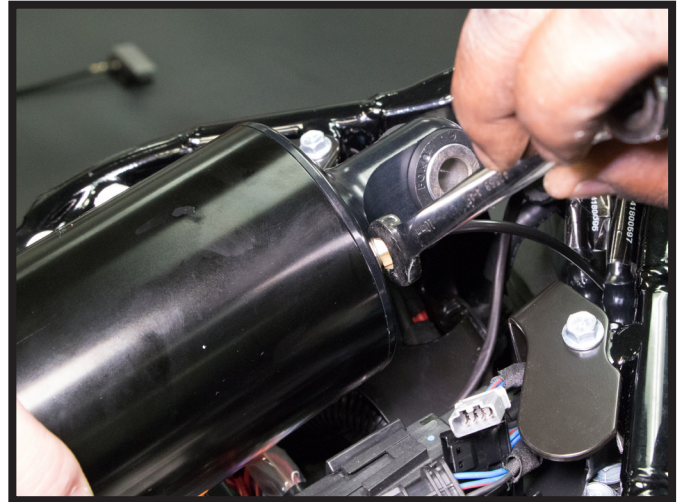


FIGURE 26

13. INSTALL THE SHOCK IN THE MOTORCYCLE WITH THE AIR LINE FACING THE RIGHT SIDE. (FIGURES 27, 28)

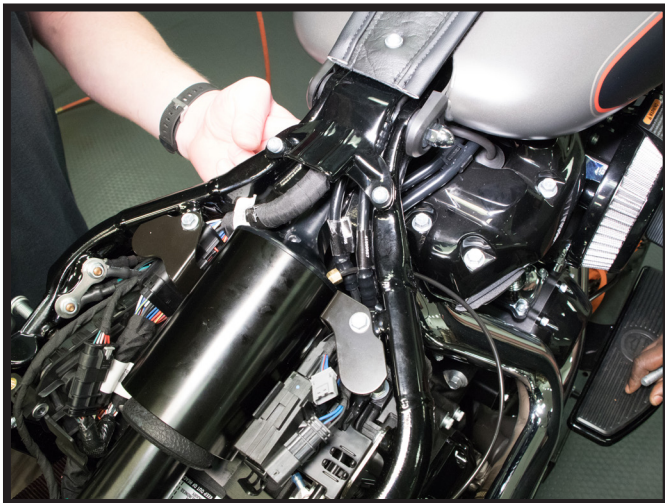


FIGURE 27

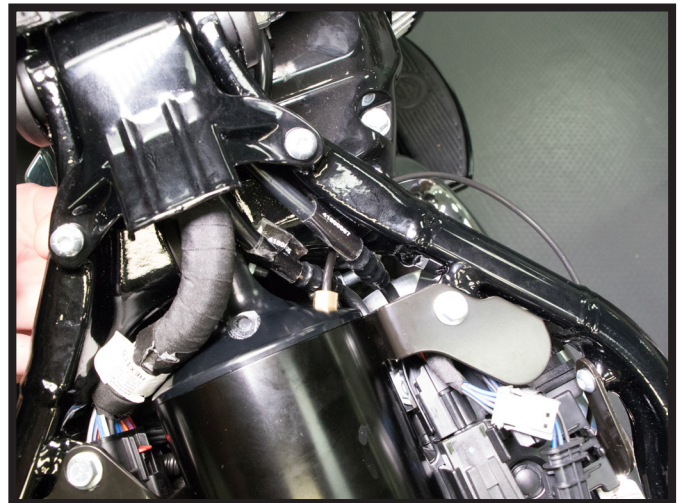


FIGURE 28

14. TIGHTEN THE UPPER AND LOWER SHOCK BOLTS. (FIGURES 29, 30, 31)

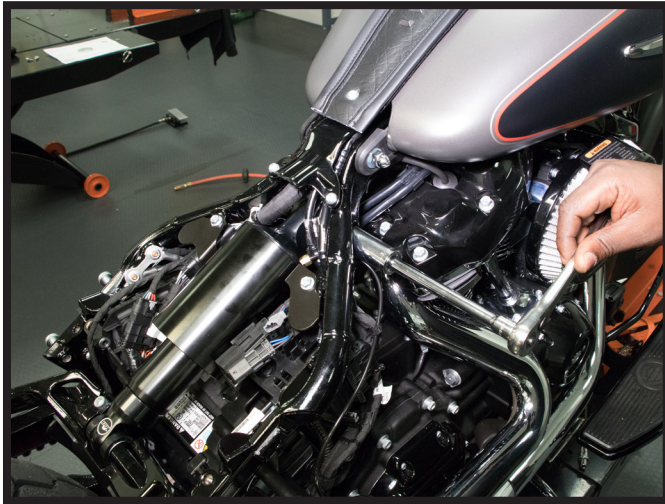


FIGURE 29

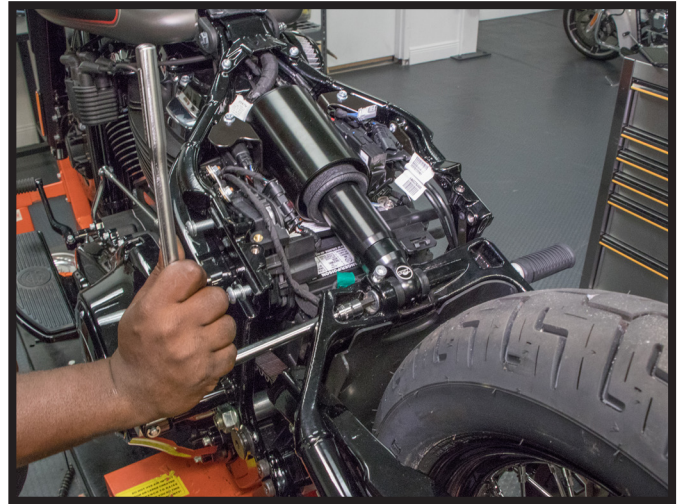


FIGURE 30

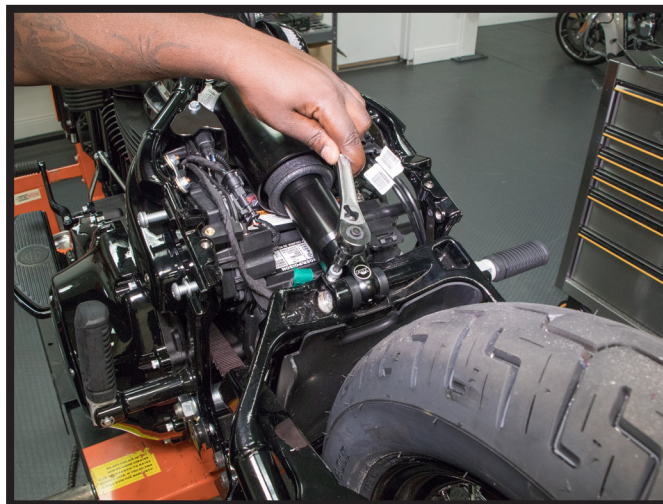


FIGURE 31

15. REINSTALL THE SEAT BRACKET AND REAR SUB-FRAME/FENDER. (FIGURES 32, 33)

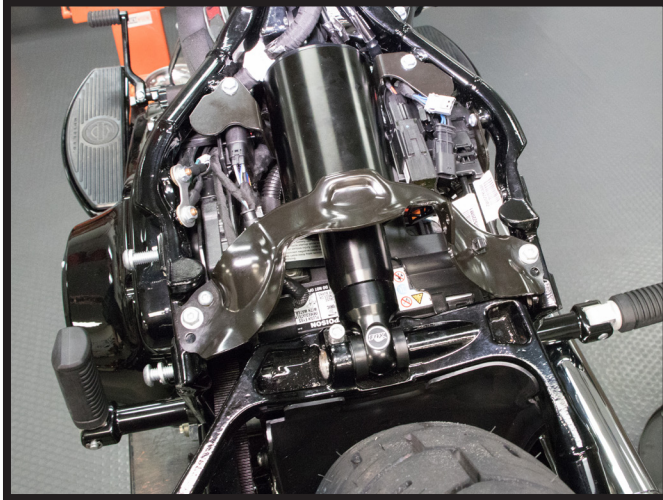


FIGURE 32



FIGURE 33

16. THE CLOCKING OF THE SHOCK EYES CAN BE CHANGED TO SUIT THE OWNER'S PREFERENCE . SIMPLY FIX THE LOWER EYE IN A VISE TO KEEP IT FROM MOVING. THEN GRASP THE DAMPER SLEEVE AS SHOWN BELOW. TWIST THE SLEEVE ON THE SHOCK BODY. (FIGURES 34, 35)

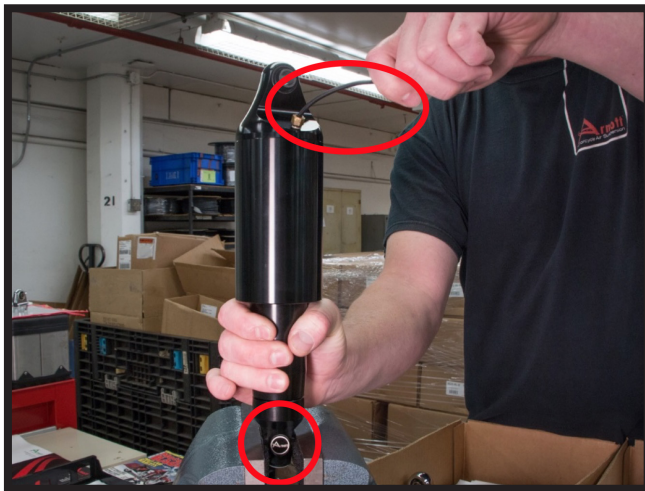


FIGURE 34

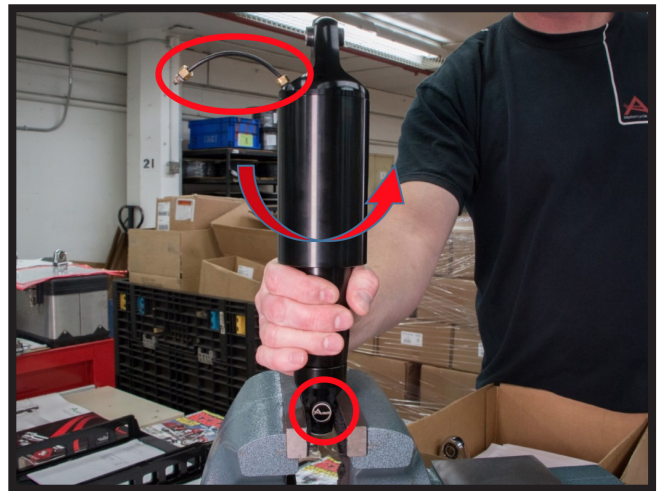
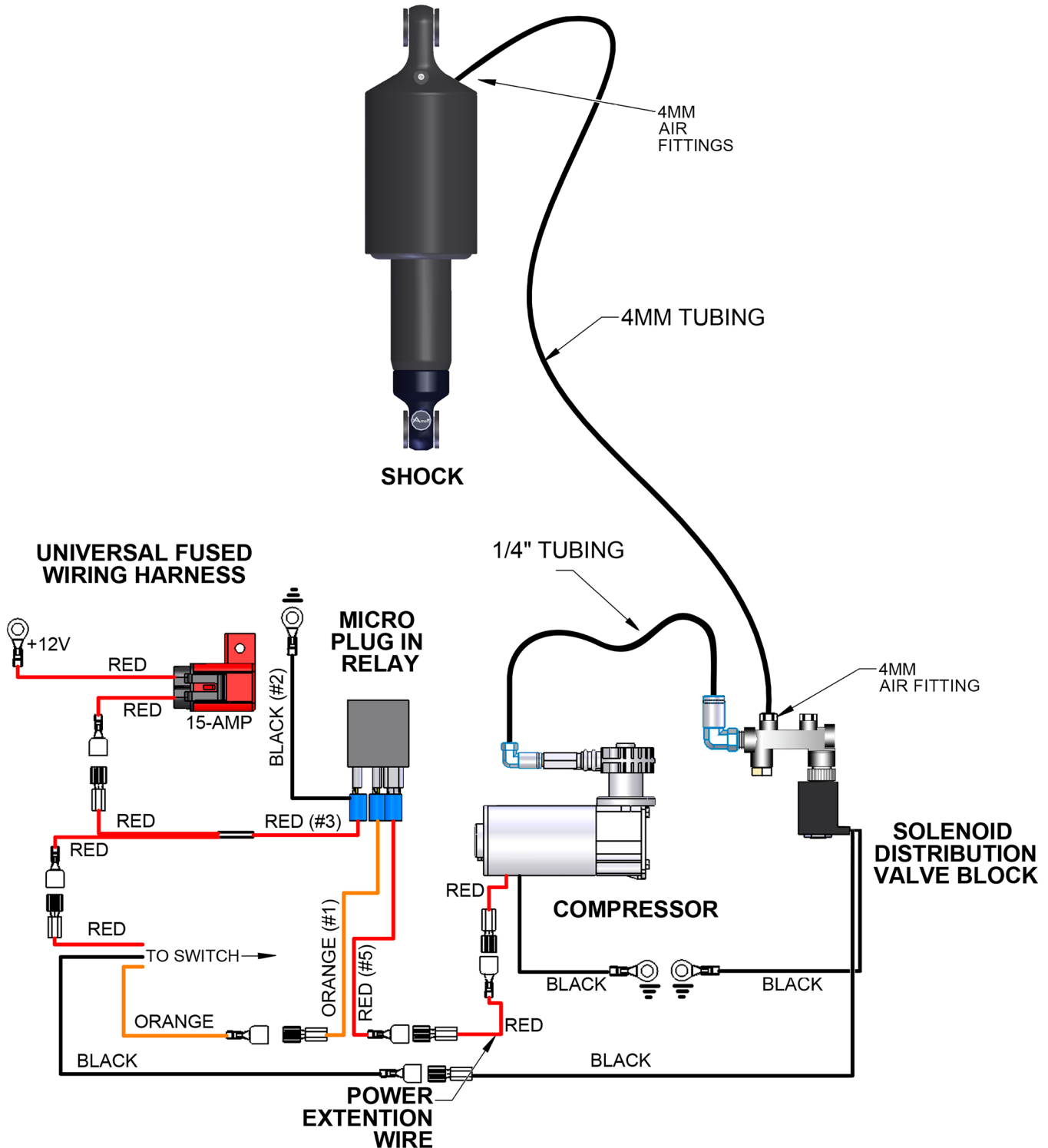


FIGURE 35

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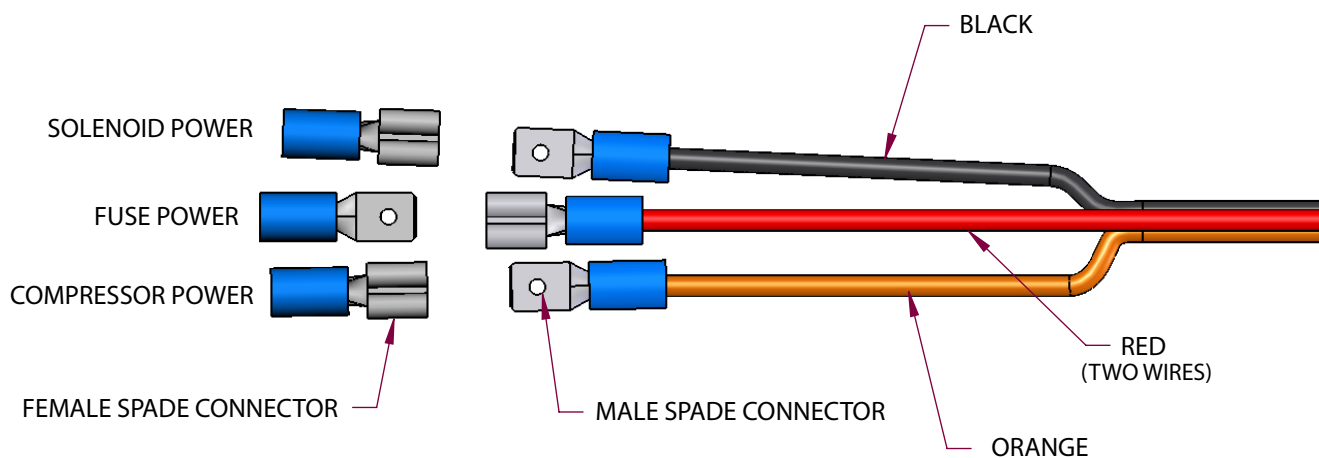
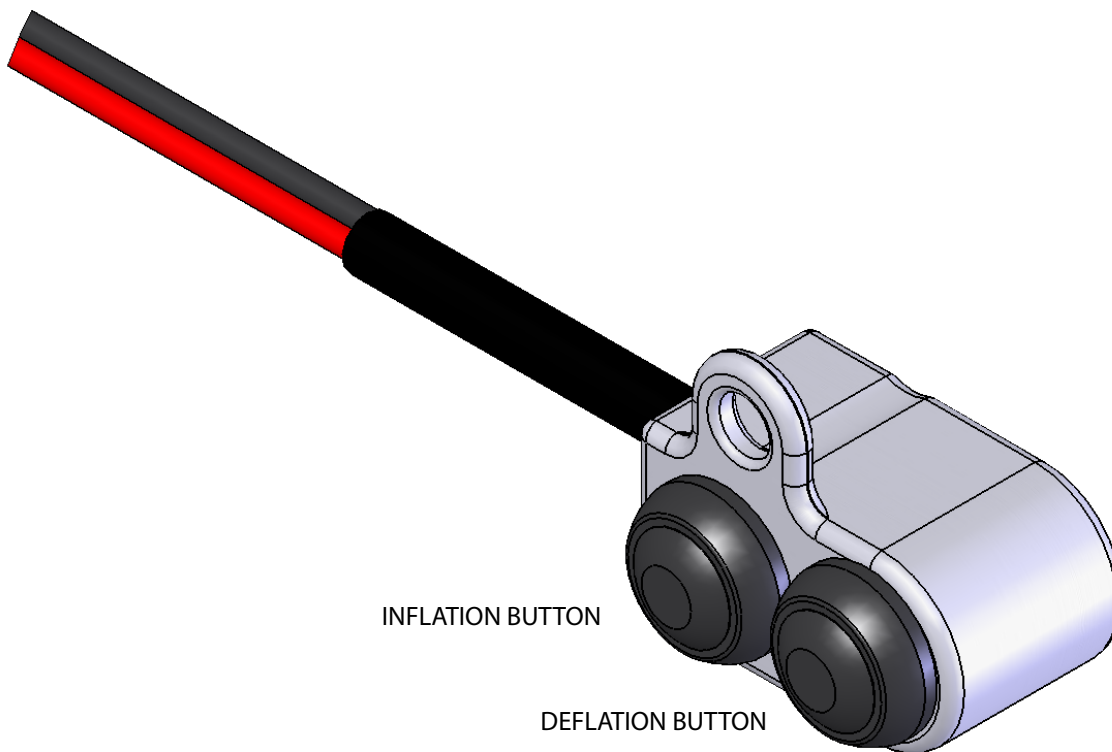
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- AS SHOWN IN ILLUSTRATION ABOVE;
1. CUT SWITCH WIRING TO APPROPRIATE LENGTH.
  2. CRIMP THE TWO MALE SPADE CONNECTORS TO THE ORANGE WIRE AND TO THE BLACK WIRE.
  3. CRIMP THE FEMALE SPADE CONNECTOR TO THE DOUBLE RED WIRE.