

# Arnott<sup>®</sup>

Motorcycle Suspension

## INSTALLATION MANUAL

MC-2974 / MC-2975  
Arnott Ultimate Ride Kit  
08-Current Suzuki<sup>®</sup> Hayabusa<sup>®</sup> Series



***ELEVATE YOUR RIDE.<sup>®</sup>***

# CONGRATULATIONS ON YOUR PURCHASE OF AN ARNOTT® MOTORCYCLE 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 LLC are proud to offer a high quality product with all the technical support you need. Thank you for your confidence in us and our product.

## GENERAL INFORMATION

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, certified motorcycle 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.

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) and [www.arnottcycles.eu](http://www.arnottcycles.eu).



### 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.

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

### CAUTION:

This manual is meant to provide basic installation guidelines which can help prevent damage to the motorcycle and air suspension system. 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.

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.

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.

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Download your TÜV certification here:

[WWW.ARNOTTCYCLES.EU/PAGES/TUV-CERTIFICATES](http://WWW.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.

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# COMPONENTS

## MC-2974 — 08-CURRENT SUZUKI HAYABUSA — BLACK

20-10663 INFLATION KIT		
PART NO.	DESCRIPTION	QTY
29-13435	POTTED RELAY	1
21-7268	4MM AIRLINE X 6FT. ACCESSORY KIT	1
21-7715	4MM VOSS FITTING ACCESSORY KIT	1
21-7271	HARNESS CABLE TIES ACCESSORY KIT	1
21-2698	UNIVERSAL FUSE HOLDER ASSEMBLY KIT	1
21-10652	2008-PRESENT SUZUKI GSXR1300 HAYABUSA, COMPRESSOR ASSEMBLY	1
21-10661	2008-PRESENT SUZUKI GSXR1300 HAYABUSA, MOUNTING KIT	1
11-MC-GSXR13	INSTALLATION MANUAL FOR MC-2974 & MC-2975	1

21-10658-B SHOCK KIT		
PART NO.	DESCRIPTION	QTY
21-10656	SHOCK ASSY, BLACK	1

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

The use and installation of any Arnott Air Suspension product or kit may adversely affect or void your factory warranty. It is the responsibility of the motorcycle owner to check federal, state and local laws and ordinances before modifying or customizing his or her motorcycle. It is the exclusive and total responsibility of the motorcycle owner to determine the suitability of this product for his or her use. The user shall assume all legal obligations, personal injury risk and all liability duties and risk associated with the use of this product. Arnott Air Suspension products are designed and intended for the experienced on-road motorcyclists only and intended for closed course operation. Arnott Air Suspension products and kits are designed exclusively for OEM manufactured and equipped motorcycles with no modifications. Any installation of aftermarket or customized components may adversely affect the operation and performance of Arnott Air suspension kits and components and may void the manufacturer's warranty. These directions are accurate at time of publication. Arnott Inc. reserves the right to revise specifications without notice.

# COMPONENTS

## MC-2975 — 08-CURRENT SUZUKI HAYABUSA — CHROME

20-10663 INFLATION KIT		
PART NO.	DESCRIPTION	QTY
29-13435	POTTED RELAY	1
21-7268	4MM AIRLINE X 6FT. ACCESSORY KIT	1
21-7715	4MM VOSS FITTING ACCESSORY KIT	1
21-7271	HARNESS CABLE TIES ACCESSORY KIT	1
21-2698	UNIVERSAL FUSE HOLDER ASSEMBLY KIT	1
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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 rear seat or cowl, the rider seat, and the battery. (Figures 1, 2, 3, 4)



FIGURE 1



FIGURE 2



FIGURE 3



FIGURE 4

2. Remove the rear tail fairing. (Figures 5, 6, 7, 8, 9, 10, 11, 12, 13)



FIGURE 5



FIGURE 6



FIGURE 7



FIGURE 8



FIGURE 9



FIGURE 10



FIGURE 11



FIGURE 12



FIGURE 13

3. Remove the fuel tank and the rear tank bracket. (Figures 14, 15, 16, 17, 18, 19, 20, 21)



FIGURE 14



FIGURE 15



FIGURE 16



FIGURE 17



FIGURE 18

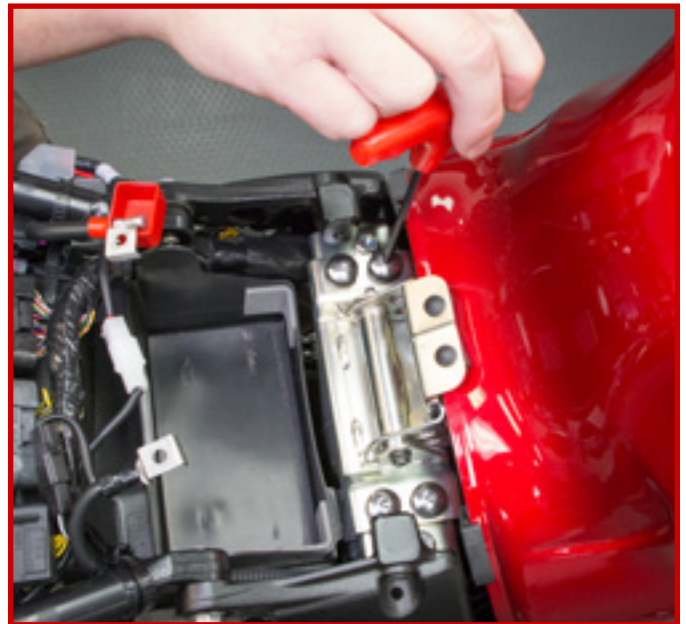


FIGURE 19



FIGURE 20



FIGURE 21

4. Remove the lower fairing and support the motorcycle under the exhaust. (Figures 22, 23)



FIGURE 22

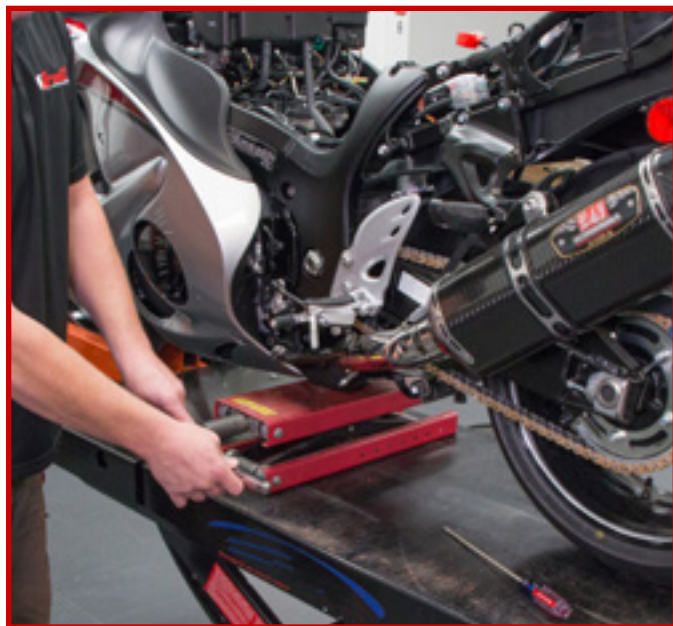


FIGURE 23

5. Remove the four (4) bolts attaching the passenger foot pegs to the subframe. (Figures 24, 25)

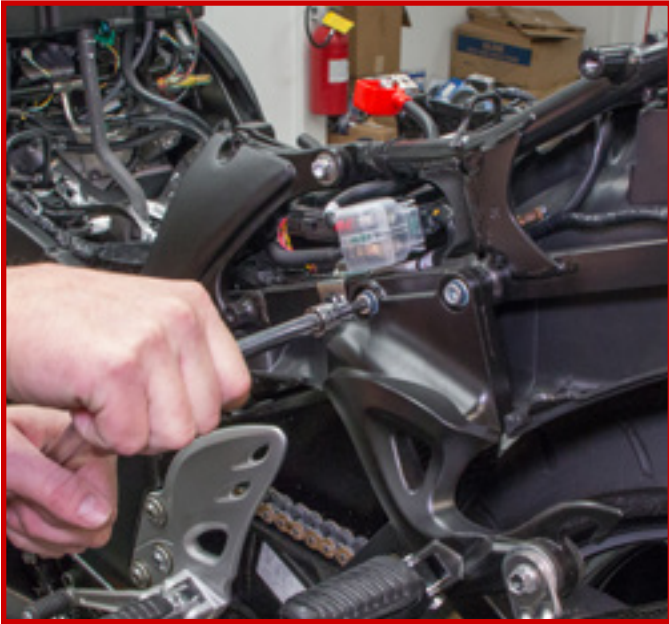


FIGURE 24

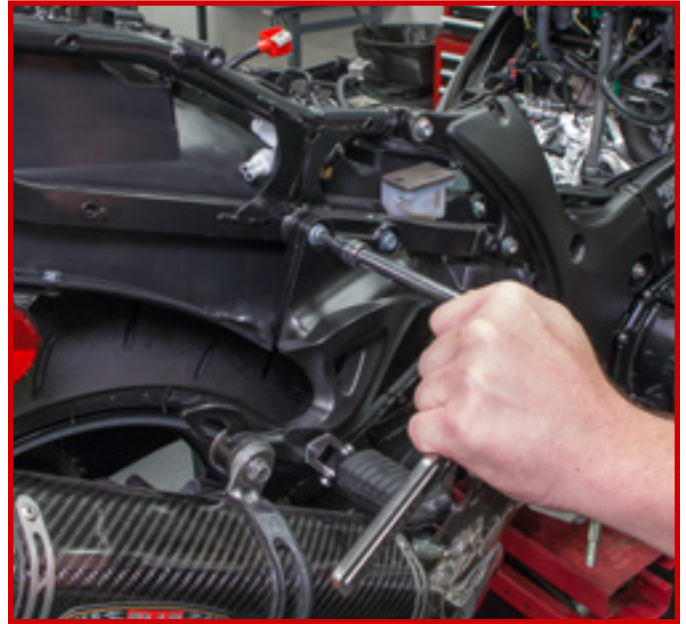


FIGURE 25

6. Remove the four (4) bolts attaching the subframe to the main frame. Then allow the subframe assembly to rest on the rear wheel. (Figures 26, 27)



FIGURE 26



FIGURE 27

7. Remove the upper shock bolt. Then jack up the bike until you can access the lower shock bolt and remove it as well. Pull the shock out through the top of the frame. (Figures 28, 29)



FIGURE 28



FIGURE 29

8. Screw a VOSS fitting into the air shock. Pull out the white plug. Insert the 4mm air line into the fitting until you feel it seat. Remove the fitting from the shock and confirm that the keeper is attached to the air line. Screw the fitting into the shock and snug it tight with a 10mm wrench. (Figures 30, 31, 32, 33)



FIGURE 30



FIGURE 31



FIGURE 32



FIGURE 33

9. Insert the air shock into the frame with the VOSS fitting pointing to the left side of the motorcycle. Insert and tighten the lower shock bolt and nut. Lower the motorcycle until you can insert and tighten the upper bolt and nut. (Figures 34, 35, 36)



FIGURE 34



FIGURE 35



FIGURE 36

10. Remove and discard the upper clutch perch bolt. Mount the handlebar switch to the perch using the supplied spacer and bolt. Route the wire under the triple clamps and between the left fork and the frame, then between the air box and the frame toward the battery. (Figures 37, 38, 39)



FIGURE 37



FIGURE 38



FIGURE 39

11. Using the OE bolt, mount the compressor assembly to the frame as shown in the figure below. Ensure that the compressor and bracket are square to the frame, and snug the bolt tight. (Figures 40, 41)

**NOTE:** The compressor will be touching the tilt sensor; this is normal. Do not relocate this sensor. It must be upright for the motorcycle to start.



FIGURE 40

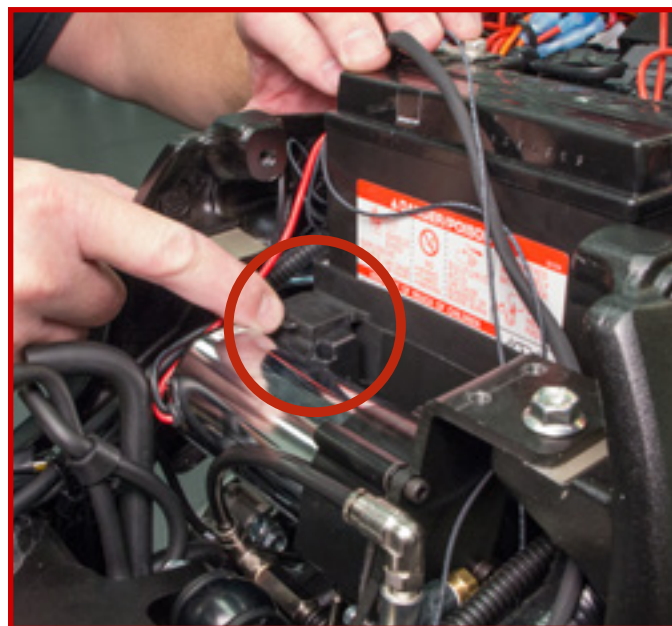


FIGURE 41

12. Using the other OE tank bracket bolt, mount the small square tank mount plate to the frame in the orientation shown in the figure below. Ensure it is square to the frame and snug the bolt tight. (Figure 42)

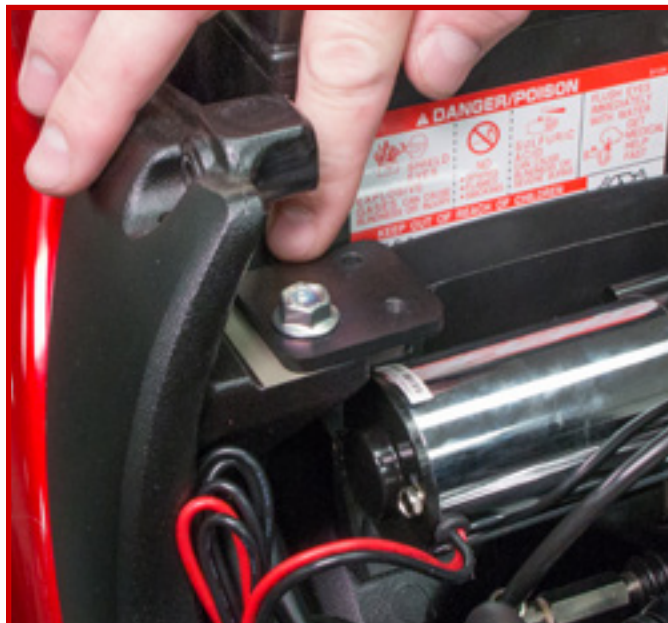


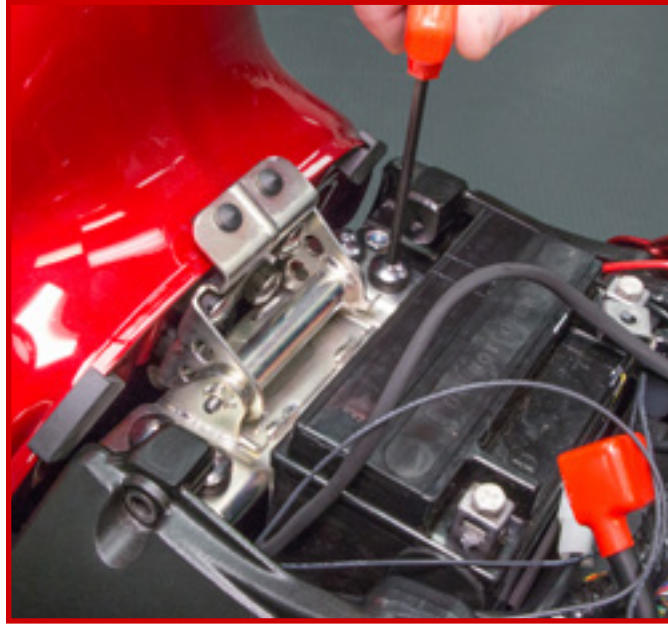
FIGURE 42

13. Following the same VOSS fitting procedure as in step 8, cut the 4mm shock air line to length and attach it to the air manifold. (Figure 43)



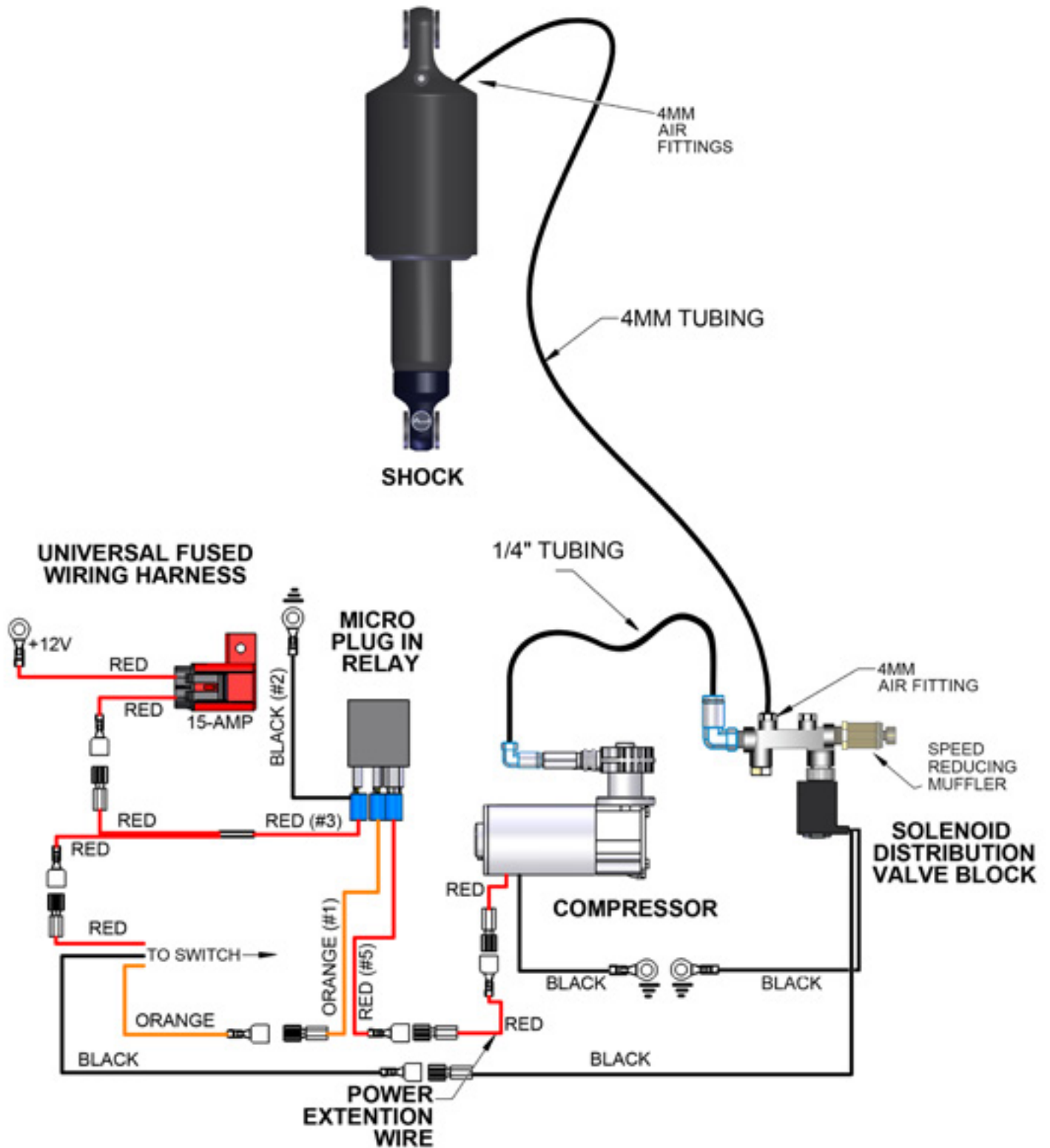
FIGURE 43

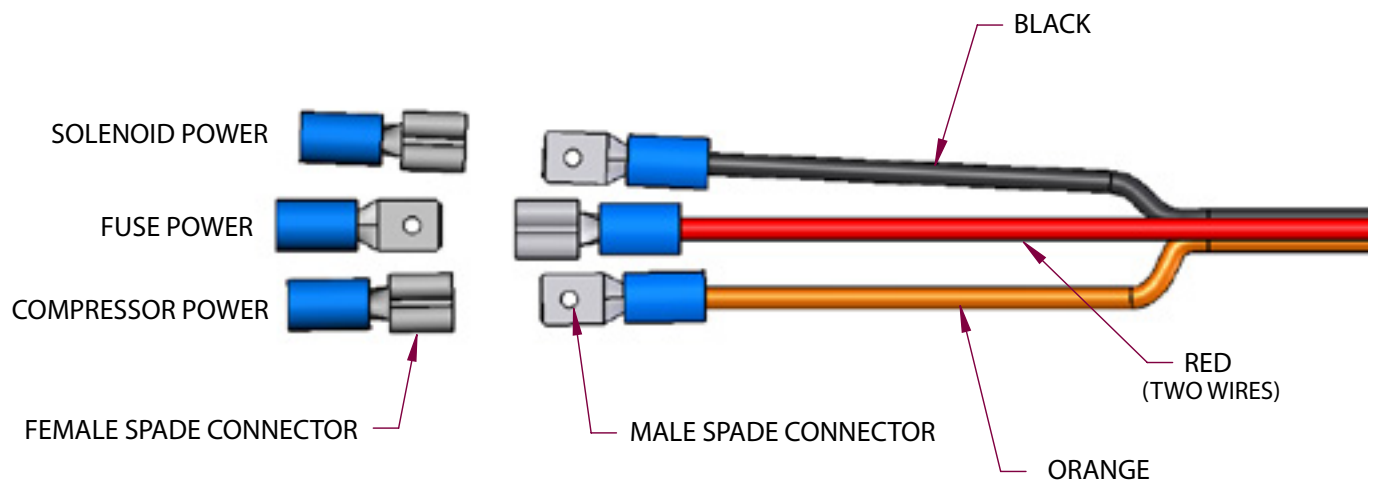
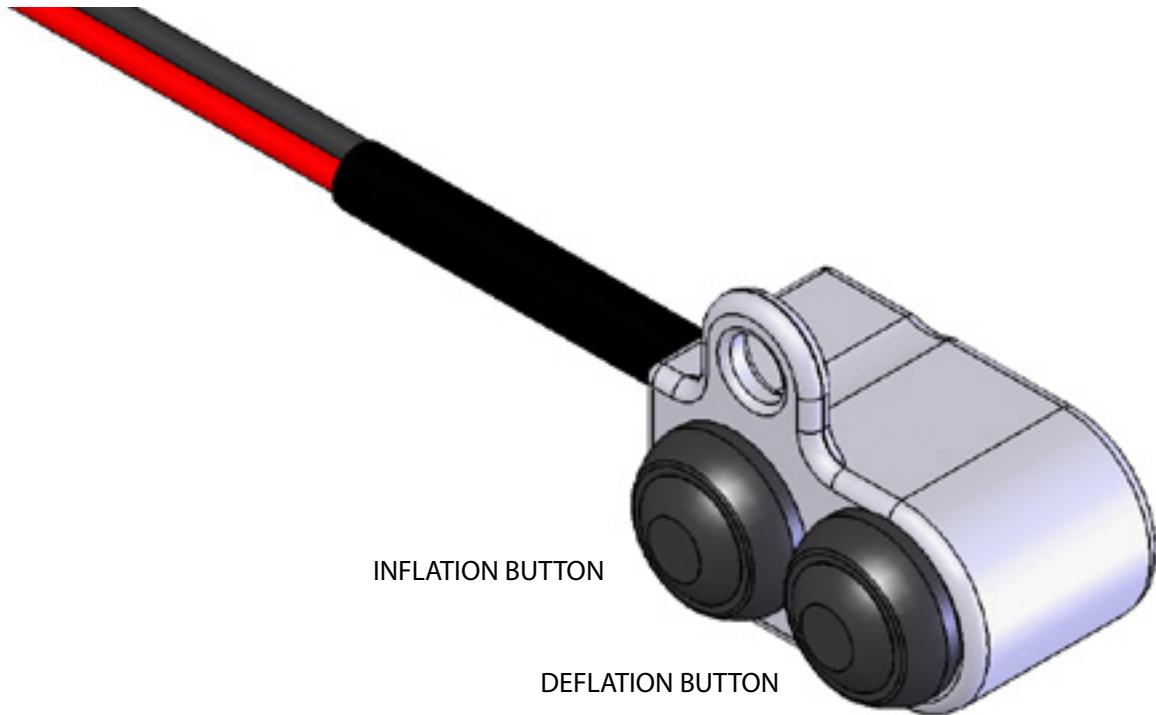
14. Install the fuel tank back on the motorcycle. Screw the fuel tank bracket to the compressor and tank mount plate. (Figure 44)



**FIGURE 44**

15. Complete the electrical connections by following the wiring diagrams in the back of this manual.





- 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.

# Arnott®

## Motorcycle Suspension

### Arnott US Business Office:

[www.arnottinc.com](http://www.arnottinc.com)

100 Sea Ray Drive  
Merritt Island, FL 32953

**Call:** 800.251.8993

321.868.3016

**Fax:** 321.868.3703

**Email:** [techassistance@arnottinc.com](mailto:techassistance@arnottinc.com)

### Arnott Europe Business Office:

[www.arnotteurope.com](http://www.arnotteurope.com)

Industrieweg 19  
5145 PD, Waalwijk (NL)

**NL Phone:** +31 73 7850 580

**DE Phone:** +31 85 2087 438

**UK Phone:** +44 203 3186 124

**BE Phone:** +32 258 846 90

**ES Phone:** +34 91 901 10 56

**FR Phone:** +32 78 48 46 93

**Email:** [info@arnotteurope.com](mailto:info@arnotteurope.com)



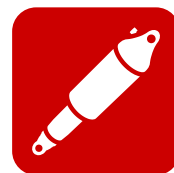
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