

Installation Manual

KIT # MC-2996
FOR 2006-2015
YAMAHA FZ1 SERIES



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®"



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 175 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. (In the EU please call +31 (0)73 7850 580 or email info@arnotteurope.com).

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BILL OF MATERIALS MC-2996 - YAMAHA FZ1, 2006-2015, BLACK

20-10925 - INFLATION KIT, YAMAHA FZ1, 2006-2015

PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-3110	MICRO RELAY ASSEMBLY W/ HARNESS
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	21-10526	2006-2015 YAMAHA FZ1 PUMP BRACKET ASSEMBLY
1	20-10688	MOUNTING KIT
1	11-MC-FZ1	INSTALLATION MANUAL FOR MC-2996

21-10923-B - SHOCK KIT

PARTS LIST

QTY	PART NO.	DESCRIPTION
1	21-10922	SHOCK ASSY, BLACK

HANDLE BAR SWITCH

PARTS LIST

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

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.

- 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 RIDER AND PASSENGER SEATS, THEN THE TWO SIDE COVERS. (FIGURES 1, 2)



FIGURE 1



FIGURE 2

2. REMOVE THE SHOCK LINKAGE BOLTS SHOWN BELOW. (FIGURES 3, 4, 5)



FIGURE 3



FIGURE 4

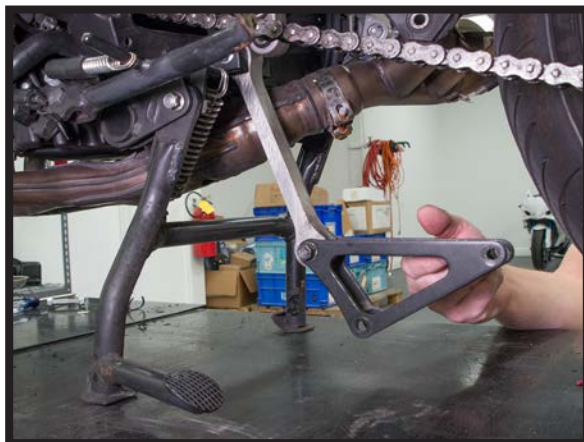


FIGURE 5

3. REMOVE THE MOUNTING BOLT FROM THE REAR BRAKE RESERVOIR AND PUSH IT TO THE SIDE. REMOVE THE TOP SHOCK BOLT AND REMOVE THE SHOCK. (FIGURES 6, 7)



FIGURE 6



FIGURE 7

4. UNPLUG THE WIRE CONNECTORS FROM THE REGULATOR/RECTIFIER. (FIGURE 8)



FIGURE 8

5. REMOVE THE 4 MOUNTING SCREWS FROM THE REGULATOR/RECTIFIER MOUNTING BRACKET AND REMOVE THE ASSEMBLY FROM THE MOTORCYCLE. (FIGURES 9, 10)



FIGURE 9

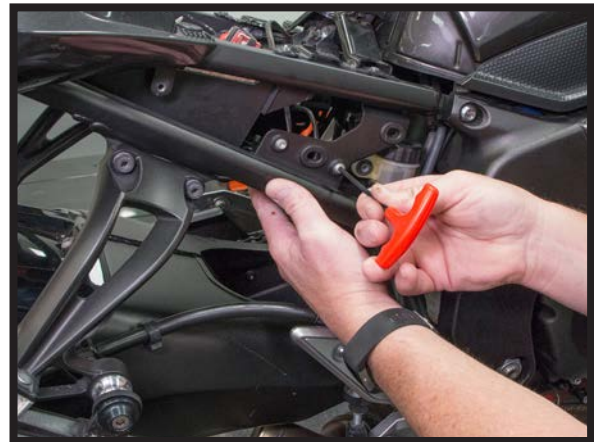


FIGURE 10

6. REMOVE THE REGULATOR/RECTIFIER FROM THE OE BRACKET AND MOUNT IT TO THE BOTTOM OF THE AIR PUMP ASSEMBLY BRACKET IN THE ORIENTATION SHOWN BELOW. (FIGURES 11, 12)



FIGURE 11



FIGURE 12

7. SCREW A VOSS FITTING TO THE AIR SHOCK, THEN REMOVE THE WHITE PLUG AND INSERT THE 4MM AIR LINE UNTIL YOU FEEL IT SEAT. REMOVE THE FITTING FROM THE SHOCK AND VERIFY THE KEEPER IS ON THE AIR HOSE. (FIGURES 13, 14, 15, 16)



FIGURE 13



FIGURE 14



FIGURE 15



FIGURE 16

8. CUT THE AIR LINE TO APPROXIMATELY 12 INCHES LONG AND REPEAT STEP #7 FOR THE OTHER END. THEN ATTACH ONE END TO THE AIR MANIFOLD ASSEMBLY AS SHOWN BELOW WITH A 10MM WRENCH. (FIGURES 17, 18)



FIGURE 17



FIGURE 18

9. INSERT THE PUMP ASSEMBLY INTO THE FRAME AND SECURE IN PLACE WITH THE OE SCREWS. RECONNECT THE PLUGS TO THE REGULATOR/RECTIFIER. (FIGURES 19, 20, 21, 22)



FIGURE 19



FIGURE 20



FIGURE 21

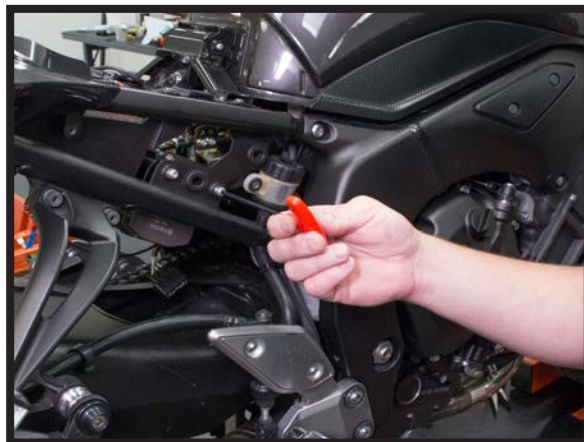


FIGURE 22

10. INSERT THE AIR SHOCK UP THROUGH THE SWINGARM AND ATTACH THE AIR HOSE TO IT WITH THE VOSS FITTING FACING THE RIGHT SIDE OF THE MOTORCYCLE INSERT AND TIGHTEN THE UPPER SHOCK BOLT. (FIGURES 23, 24)



FIGURE 23

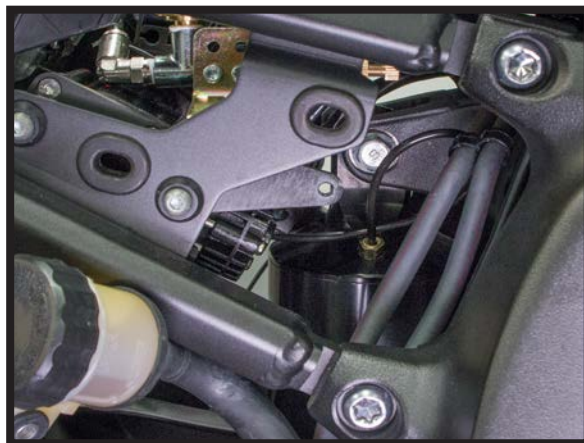


FIGURE 24

11. INSERT THE LOWER LINKAGE AND SHOCK BOLTS, TIGHTEN, THEN ATTACH THE REAR BRAKE RESERVOIR TO THE PUMP BRACKET. (FIGURES 25, 26, 27)

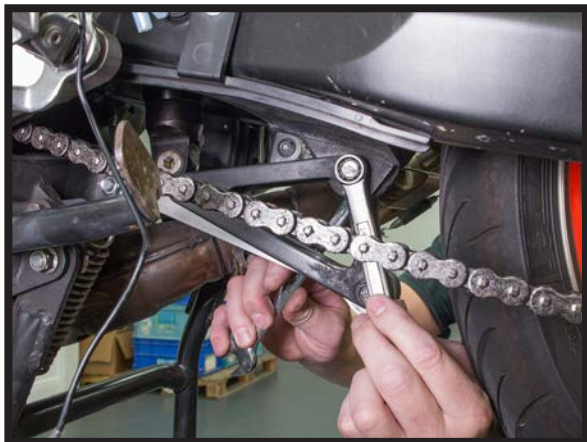


FIGURE 25

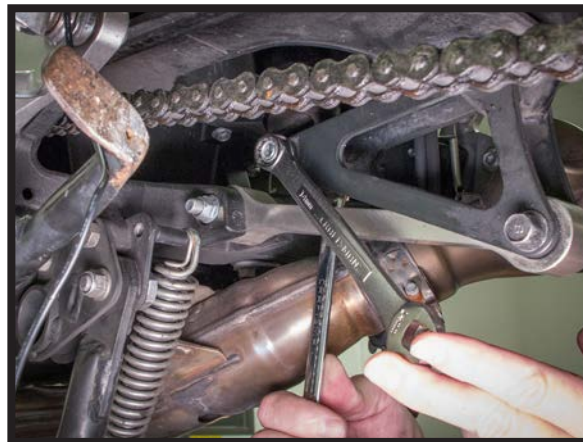


FIGURE 26

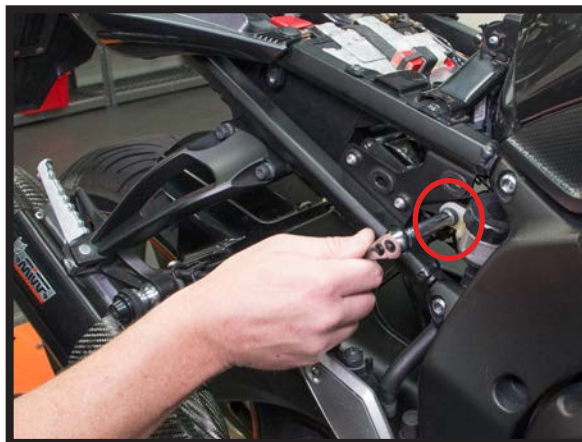


FIGURE 27

12. REMOVE THE CLUTCH PERCH PINCH BOLT AND ATTACH THE HANDLEBAR SWITCH AS SHOWN BELOW USING THE INCLUDED SPACER AND BOLT. ROUTE THE WIRE UNDER THE FUEL TANK BACK TOWARD THE BATTERY. FOLLOWING THE WIRING DIAGRAM IN THE BACK OF THIS MANUAL COMPLETE THE ELECTRICAL CONNECTIONS. (FIGURES 28, 29)



FIGURE 28



FIGURE 29

13. THE CLOCKING OF THE SHOCK EYES CAN BE ADJUSTED. 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 30, 31)



FIGURE 30



FIGURE 31

14. ON REBOUND ADJUSTABLE SHOCKS, THE REBOUND DAMPING FORCE CAN BE INCREASED OR DECREASED TO SUIT THE RIDER'S PREFERENCE. INCREASING THE REBOUND DAMPING WILL SLOW THE SPEED AT WHICH THE SHOCK EXTENDS AFTER IT IS COMPRESSED. THIS IS USUALLY DESIRABLE WHEN RUNNING HIGHER AIR PRESSURES THAN NORMAL FOR A SINGLE RIDER. FOR EXAMPLE, RIDING 1 UP WOULD REQUIRE LOWER AIR PRESSURE AND LESS REBOUND DAMPING THAN RIDING 2 UP WITH A FULLY LOADED MOTORCYCLE. THE INCREASED AIR PRESSURE IS TRYING TO EXTEND THE SHOCK FASTER. THIS CAN LEAD TO AN UNCONTROLLED BOUNCY FEELING IN THE REAR OF THE MOTORCYCLE. INCREASING THE REBOUND DAMPING WILL HELP SLOW DOWN THE EXTENSION AND MAKE A MORE CONTROLLED FEELING. (FIGURES 32, 33)



FIGURE 32

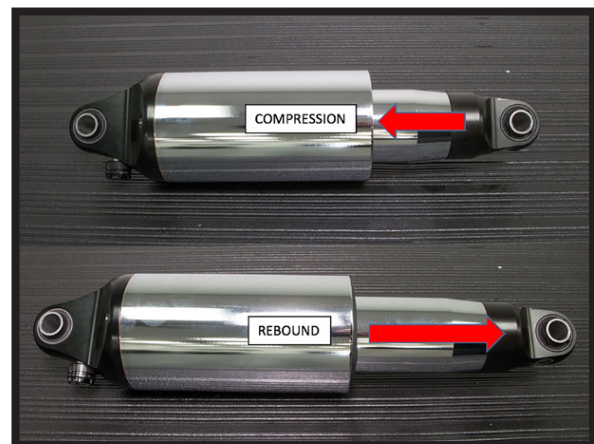
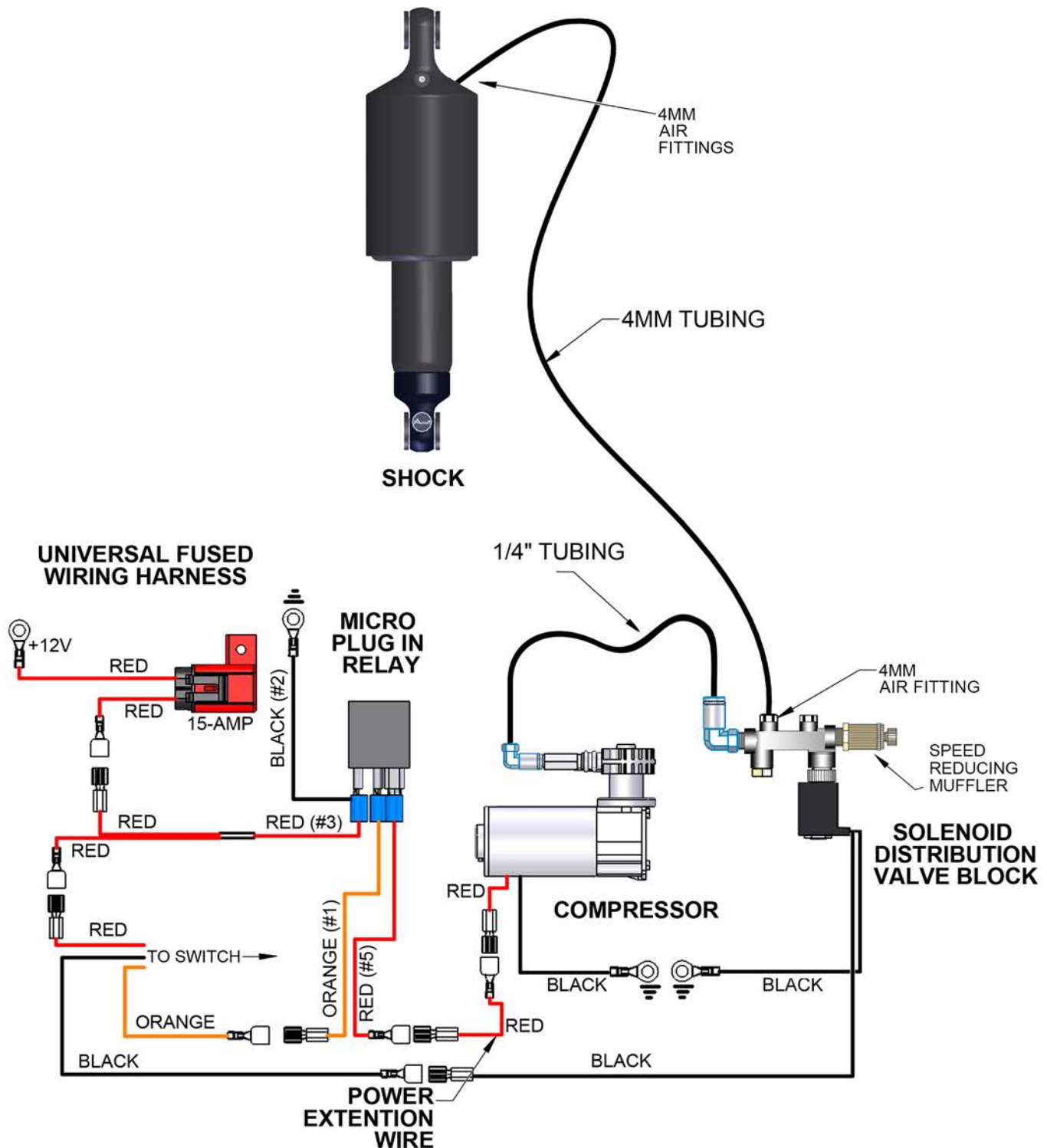


FIGURE 33

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.

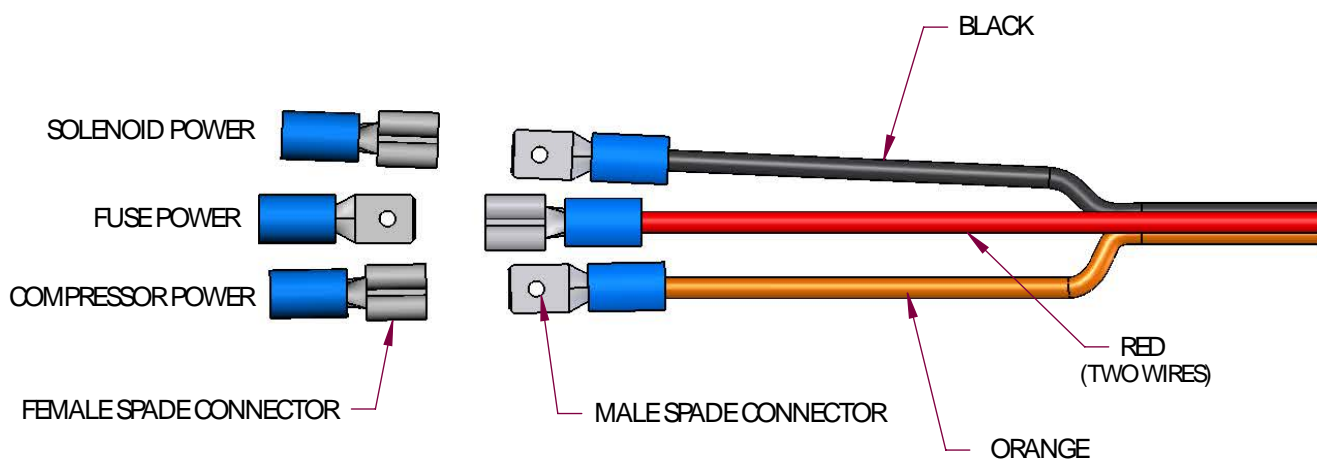
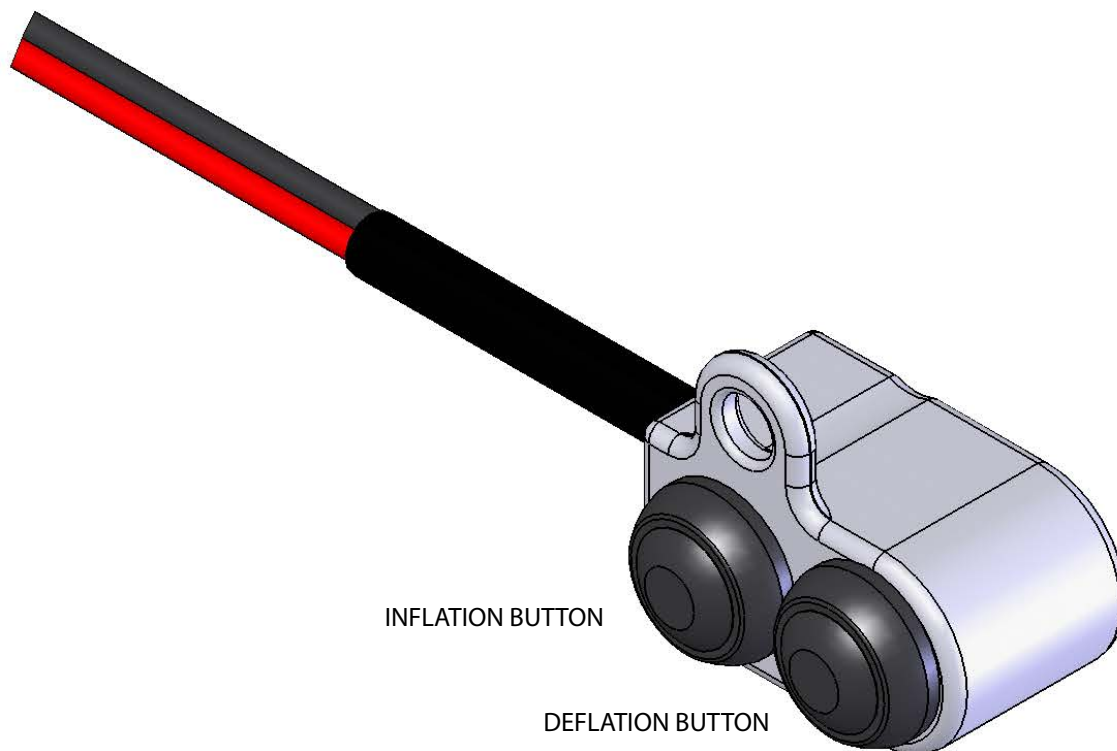
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- ASSHOWN IN ILLUSTRATION ABOVE:
1. CUT SWITCH WIRING TO APPROPRIATE LENGTH.
 2. CRIMP THE TWO MALE SPADE CONNECTORS TO THE ORANGE WIRE AND TO THE BLACK WIRE
 3. CRIMP THE FEMALE SPADE CONNECTOR TO THE DOUBLE RED WIRE