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 100 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.)
BILL OF MATERIALS
MC-3104 - HARLEY-DAVIDSON DYNA, 2008-2017, BLACK

20-12502 - DYNA INFLATION KIT, 2008 - 2017, SMOOTH RIDE

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21-10551 - SHOCK KIT

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<td>SHOCK ASSY, BLACK, SMOOTH RIDE</td>
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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.

- 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 BATTERY COVER AND SEAT. (FIGURES 1, 2)
2. REMOVE THE BATTERY AND THE BATTERY BOX FROM THE FRAME. (FIGURES 3, 4)

3. SUPPORT THE MOTORCYCLE UNDER THE MOTOR UNTIL THE REAR TIRE ALMOST LEAVES THE GROUND. REMOVE THE LOWER FRONT MOTOR MOUNT BOLT AND SET IT ASIDE. LOOSEN THE UPPER FRONT MOUNT BOLT JUST ENOUGH SO THAT THE PUMP BRACKET CAN EASILY SLIDE BETWEEN IT AND THE FRAME; DO NOT REMOVE THE BOLT COMPLETELY. (FIGURES 5, 6)
4. Insert the 1/4" air line into the pump assembly. Then, while pulling the hose and the pump wires between the frame and the motor, guide the pump assembly up between the motor and the frame rail as depicted below. (Figures 7, 8)

5. Secure the pump assembly to the frame using the motor mount bolts as depicted below. (Figures 9, 10)

   ![Figure 11](image1.png)  ![Figure 12](image2.png)

7. **TRIM THE BLACK PUMP WIRE EXTENSION TO LENGTH,** CRIMP A RING TERMINAL TO THE END AND GROUND TO THE LOCATION SHOWN BELOW. (FIGURES 13, 14)

   ![Figure 13](image3.png)  ![Figure 14](image4.png)

9. REMOVE THE OE SHOCKS AND THE UPPER SHOCK MOUNT POSTS. SAVE THE NUT AND WASHER FROM THE POST; YOU WILL NEED TO REUSE THESE. (FIGURES 17, 18)

**FIGURE 19**

**FIGURE 20**

**FIGURE 21**
11. Depending on your exhaust configuration, you may need to mount the right shock to the motorcycle first. Start with the lower bolt. Apply blue lock-tite to the included bolt. Line up the shock with the upper shock mounting hole and tighten the lower shock bolt to the factory recommended torque. (Figures 22, 23)

![FIGURE 22](image1)

![FIGURE 23](image2)

12. Put the included bolt cap on the bolt. You may need to lubricate the internal O-ring with water to allow the cap to slide on easily. (Figures 24, 25)

![FIGURE 24](image3)

![FIGURE 25](image4)
13. JACK THE MOTORCYCLE UP TO ALIGN THE UPPER SHOCK EYE TO THE MOUNT HOLE IN THE FRAME. USING THE INCLUDED LONGER BOLT AND SPACER, ATTACH THE UPPER SHOCK EYE TO THE FRAME AS SHOWN BELOW. APPLY BLUE LOCK-TITE TO THE BOLT BEFORE TIGHTENING THE NUT TO THE FACTORY RECOMMENDED TORQUE. (FIGURES 26, 27)

![Figure 26](image1)

![Figure 27](image2)

14. TRIM THE 1/4" HOSE TO LENGTH AND INSERT INTO THE AIR MANIFOLD. TRIM THE 4MM LINES TO LENGTH. FOLLOWING THE SAME PROCEDURES AS IN STEP 10, ATTACH THE AIR LINES TO THE MANIFOLD. (FIGURES 28, 29)

![Figure 28](image3)

![Figure 29](image4)
15. Locate a suitable mounting location for the included toggle switch. Mount in a location that will provide ease of access. Such as behind of the rear cylinder on the left side cover. Route the switch wires to the manifold. Using the wiring diagram in the back of this manual complete the electrical connections. (Figure 30)

16. Before putting the motorcycle completely back together, it is recommended that you air up the system. Spray all the hose connections and fittings with soapy water. If there are any air leaks in the system bubbles will form at these locations.
17. THE ORIENTATION OF THE VOSS FILL PORT CAN BE CHANGED IN RELATION TO THE SHOCK MOUNTING EYELETS. UNSCREW AND REMOVE THE SHOCK CAN. SNUG THE LOWER SHOCK EYE IN A VISE. GRASPING THE LOWER PORTION OF THE AIR SPRING AND TWIST IT ON THE SHOCK BODY UNTIL THE DESIRED CLOCKING IS REACHED. FLIP THE SHOCK IN THE VISE. THIS TIME GRIPPING THE OTHER END OF THE AIR SPRING. TWIST TO REALIGN THE SHOCK EYES. (FIGURES 31, 32, 33, 34)

FIGURE 31

FIGURE 32

FIGURE 33

FIGURE 34

The terms Harley-Davidson®, Harley®, H-D®, Buell®, Softail®, Dyna®, V-Rod®, Tri-Glide®, and Sportster® are used for reference only. Arnott Air Suspension products are in no way authorized by nor associated with the Harley-Davidson Motor Company. All references to Harley-Davidson terms and models are for reference and identification purposes only. The use and installation of any Arnott Air Suspension product or kit may adversely affect or void your Harley-Davidson® 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.