



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®"





1

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 <u>800-251-8993</u> during normal business hours or email <u>techassistance@arnottinc.com</u>. (In the EU please call +31 (0)73 7850 580 or email <u>info@arnotteurope.com</u>).

KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES



BILL OF MATERIALS MC-2976 - KAWASAKI ZX14, 2006-PRESENT, BLACK

20-10684 - INFLATION KIT, KAWASAKI ZX14, 2006-PRESENT

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 CABLETIES ACCESSORY KIT
1	21-2698	UNIVERSAL FUSE HOLDER ASSEMBLY KIT
1	11-MC-ZX14	INSTALLATION MANUAL FOR MC-2976 & MC-2977
1	21-10685	2006-PRESENT KAWASAKI ZX14, PUMP ASSEMBLY
1	20-10688	MOUNTING KIT
1	21-7272	SPLIT LOOM- 1 FT LENGTHS ACCESSORY KIT
1	21-7267	1/4" NYLON TUBING ACCESSORY KIT
1	21-11617	90 DEGREE PUSH CONNECT MANIFOLD ASSY, MONO SHOCK

21-10658-B - SHOCK KIT

PARTS LIST		
QTY	PART NO.	DESCRIPTION
1	21-10656	SHOCK ASSY, BLACK

HANDLE BAR SWITCH

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





BILL OF MATERIALS MC-2976 - KAWASAKI ZX14, 2006-PRESENT, CHROME

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PARTS LIST		
QTY	PART NO.	DESCRIPTION
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HANDLE BAR SWITCH

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





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 <u>www.arnottcycles.com.</u>

- 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 RIGHT SIDE FAIRING. (FIGURES 1, 2, 3, 4)







FIGURE 2

4 11-MC-ZX14

REV 4

KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES





FIGURE 3



FIGURE 4

2. REMOVE BOTH LEFT AND RIGHT FAIRING TOPS. (FIGURES 5, 6)

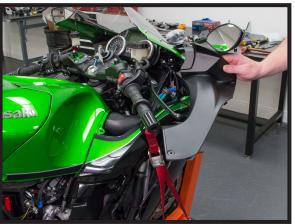






FIGURE 6

3. REMOVE THE FUEL TANK COVER, REMOVE THE THREE SCREWS, THEN PULL AWAY FROM THE TANK TO POP THE STUDS OUT OF THE GROMMETS. (FIGURES 7, 8, 9)



FIGURE 7



FIGURE 8

5 11-MC-ZX14

REV 4

KIT # MC-2976, MC-2977 FOR 2006-PRESENT **KAWASAKI ZX14 SERIES**





FIGURE 9

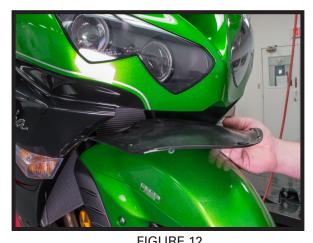
4. REMOVE THE FRONT WIND DAM. (FIGURES 10, 11, 12)



FIGURE 10



FIGURE 11



KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES



5. ON MOTORCYCLES EQUIPPED WITH ABS YOU WILL NEED TO REMOVE AND DISCARD THE ABS WIRE BRACKET ATTACHED TO THE FRONT BRAKE LINE. ZIP TIE THE WIRE TO THE BRAKE LINE. (FIGURES 13, 14, 15)



FIGURE 13



FIGURE 14



FIGURE 15

6. REMOVE THE LOWER FAIRING. (FIGURES 16, 17)



FIGURE 16



FIGURE 17

7 11-MC-ZX14

REV 4





7. REMOVE THE UPPER SHOCK BOLT AND NUT. (FIGURE 18)



FIGURE 18

8. JACK THE MOTORCYCLE UP TO GAIN ACCESS OF THE LOWER LINKAGE NUTS AND BOLTS. REMOVE THE BOLTS SHOWN BELOW AND PULL THE SHOCK OUT FROM THE FRAME. (FIGURES 19, 20, 21)



FIGURE 19



FIGURE 20



FIGURE 21

KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES



9.

FEED THE 4MM AIR HOSE THROUGH THE FRAME AS SHOWN BELOW. (FIGURES 22, 23)







FIGURE 23

10. SCREW A VOSS FITTING INTO THE AIR SHOCK. PULL OUT THE WHITE PLUG AND INSERT THE 4MM AIR LINE FROM THE BOTTOM OF THE MOTORCYCLE 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 TIGHT WITH A 10MM WRENCH. (FIGURES 24, 25, 26, 27)



FIGURE 24



FIGURE 25



FIGURE 26



FIGURE 27

11-MC-ZX14

9

REV 4

KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES



11. PLACE THE AIR SHOCK INTO THE FRAME WITH THE VOSS FITTING ON THE LEFT SIDE OF THE MOTORCYCLE. TIGHTEN THE LOWER LINKAGE BOLTS FIRST THEN TIGHTEN THE UPPER SHOCK BOLT. FEED THE AIRLINE TOWARD THE FRONT OF THE MOTORCYCLE BETWEEN THE FUEL TANK AND LEFT FAIRING. (28, 29, 30, 31)



FIGURE 28



FIGURE 29

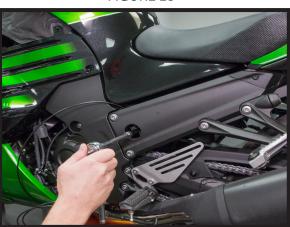


FIGURE 30



FIGURE 31

12. REMOVE THE UPPER FRONT FAIRING FRAME BOLT. FEED THE PUMP ASSEMBLY UP THROUGH THE FRONT OF THE MOTORCYCLE AND ATTACH THE PUMP ASSEMBLY AS SHOWN BELOW WITH THE BOLT THAT WAS JUST REMOVED. (FIGURES 32, 33, 34)





FIGURE 32

10 11-MC-ZX14

REV 4







FIGURE 34

13. PLUG THE 1/4" AIR HOUSE INTO THE PUMP ASSEMBLY AND ROUTE THE PUMP WIRES AND HOSE AS SHOWN BELOW. WRAP THE WIRES WITH THE INCLUDED SPLIT LOOM AND ZIP TIES. CUT THE HOSE TO LENGTH AND PLUG IT INTO THE AIR MANIFOLD FITTING. SOMEWHERE BETWEEN THE PUMP AND MANIFOLD YOU WILL NEED TO CUT THE 1/4" HOSE AND INSERT THE INCLUDED CHECK VALVE WITH THE ARROW POINTING TOWARD THE MANIFOLD. (FIGURES 35, 36, 37)

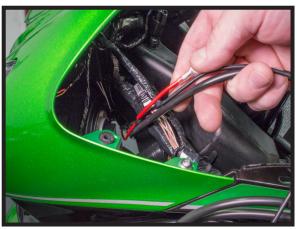


FIGURE 35



FIGURE 36



FIGURE 37

11 11-MC-ZX14

REV 4





14. TRIM THE 4MM AIR LINE TO LENGTH AND FOLLOWING THE SAME PROCEDURE AS IN STEP 10, ATTACH TO THE AIR MANIFOLD. PLUG THE OTHER HOLE WITH THE INCLUDED BLACK PLASTIC PLUG. TUCK THE MANIFOLD ASSEMBLY DOWN INTO THE FAIRING. (FIGURE 38)



FIGURE 38

15. REMOVE THE UPPER CLUTCH PERCH BOLT AND DISCARD. ATTACH THE HANDLEBAR SWITCH WITH THE INCLUDED BUTTON HEAD BOLT AND SPACER. (FIGURES 39, 40)



FIGURE 39



FIGURE 40

FOLLOWING THE WIRING DIAGRAM IN THE BACK OF THIS MANUAL COMPLETE THE ELECTRICAL CONNECTIONS. ROUTE THE POSITIVE WIRE FROM THE BATTERY OVER THE FUEL TANK. GROUND ALL OF THE NEGATIVE CONNECTIONS TO THE BOLT SHOWN BELOW. (FIGURES 41, 42)



FIGURE 41



12 11-MC-ZX14

16.

FIGURE 42

KIT # MC-2976, MC-2977 FOR 2006-PRESENT KAWASAKI ZX14 SERIES



15. 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 43, 44)





FIGURE 43



16. 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 45, 46)



FIGURE 45



FIGURE 46

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 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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