Arnott™
Motorcycle Air Suspension

Kit # 9037

Yamaha® YZF-R1 2001-2008
Yamaha® YZF-R6S 2006-2008
Triumph® Daytona 2006-2008
Honda® CBR1000RR® 2008
Honda® CBR600RR® 2008

"Engineered to Ride, Built to Last"

PARTS LIST	PART NUMBER	QUANTITY
REAR AIR SUSPENSION SHOCK	21-2958	1
COMPRESSOR ASSEMBLY	21-2969	1
UNIVERSAL COMPRESSOR BRACKET	14-3013	1
DISTRIBUTION MANIFOLD	21-3053	1
MANIFOLD BRACKET W/FASTENERS	14-2849	1
SPEED REDUCING MUFFLER	29-2710	1
FUSED WIRING HARNESS	21-2698	1
TOGGLE SWITCH	20-2592	1
RELAY ASSEMBLY	21-3110	1
BUSHING/REDUCER	14-2401	4
BUSHING/REDUCER	14-2807	1
BUSHING/REDUCER	14-3134	2
4mm VOSS AIR FITTINGS	29-2274	3
4mm NYLON TUBING	29-2626	6-FT
¼" NYLON TUBING	29-2627	6-FT
VELCRO®	29-3020	6"
HARNESS CABLE TIES	29-2617	8
SPLIT LOOM	29-3000	3-FT

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Rev. #05 01/02/2009

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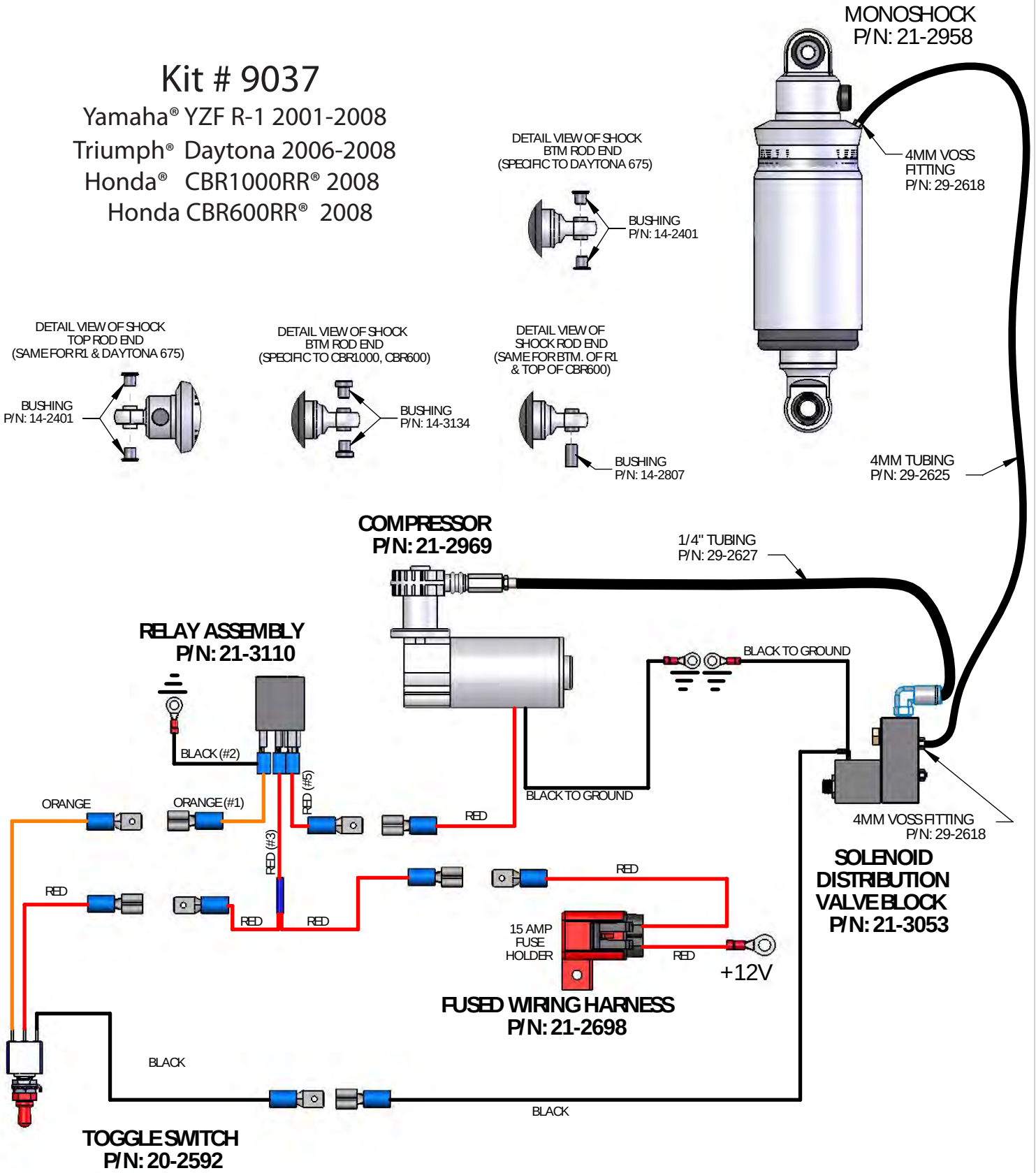

Arnott Air Ride Systems

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NEXT ASSY	USED ON
APPLICATION	

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	KMD	05/01/08
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

9037 SCHEMATIC

SIZE	DWG. NO.	REV.
A	35-3010	0

SCALE: NONE WEIGHT: SHEET 1 OF 1

THANK YOU!

Thank you for purchasing the Arnott Cycle Air 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.

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 this system on your bike. Reviewing the components and the parts list below will familiarize you with the system.

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

SAFETY WARNING:

Do not inflate the air spring assembly unless it is supported on both ends by the vehicle frame and suspension system, or by another adequate means. Doing so may result in serious injury and damage to the air spring assembly and surrounding environment.

The maximum recommended inflation pressure of the air spring is 100 psi. Over-inflation of the air spring, as well as improper use or installation of the assembly, may result in serious injury and damage to the air spring assembly and the surrounding environment.

Take precautions not to exceed the Gross Vehicle Weight Rating (GVWR, or the maximum load) recommended by the manufacturer. The air springs are rated for a maximum pressure of 100 psi. This pressure may, however, allow too great a load to be carried on most vehicles. For best results, load the vehicle and have it weighed, then compare the vehicle weight with the maximum allowed. Consult your recommended load. It is important that all vehicle's Owner Manual recommendations are followed for your own safety and to prevent damage to the vehicle. Air Springs DO NOT increase the GVWR set by the manufacturer.

WARNING

NEVER MAKE ADJUSTMENTS TO THE AIR RIDE SYSTEM WHILE THE VEHICLE IS IN MOTION. ADJUSTING THE AIR SUSPENSION WHILE VEHICLE IS IN MOTION CAN AFFECT THE STABILITY AND HANDLING, WHICH COULD RESULT IN DEATH OR SERIOUS INJURY.

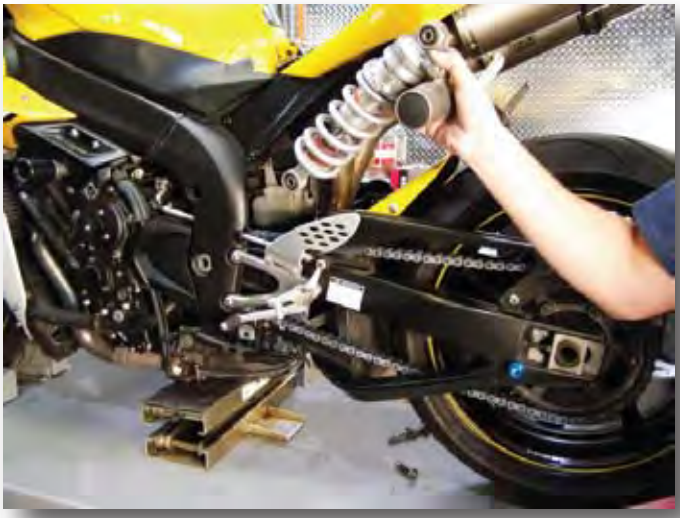
(A.) PREPARING THE BIKE:

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. Always 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 or installation process.

REMOVE THE MOTORCYCLE SEAT BEFORE STARTING THE INSTALLATION.

(B.) REMOVING THE FACTORY SHOCK:

1. Remove the upper and lower shock mounting bolts. The upper bolt is partially hidden but accessible. It is indicated by the arrow above.

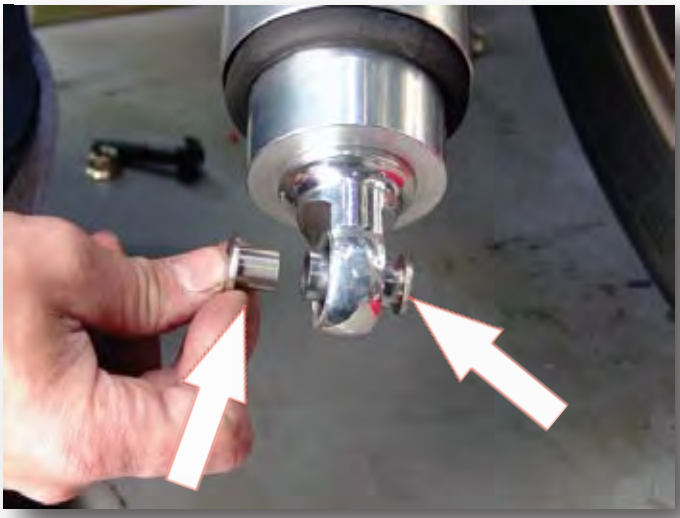


2. Remove the shock by lifting it up and out of the left side of the chassis.

(C.) INSTALLING THE REAR AIR SHOCK:

NOTE: Prior to installing the new shock, identify and locate the proper bushing-reducer set for your model.

1. Use the two-piece, stepped bushing-reducer set in each side of the top shock eyelet regardless of the model the installation is being performed on.

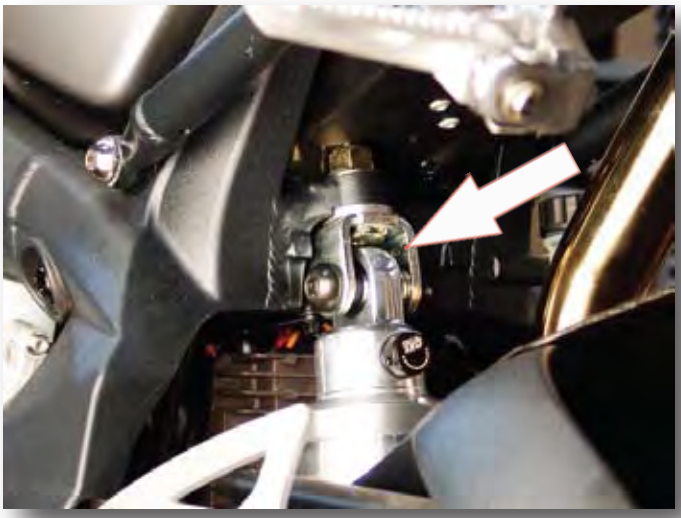


2. If the air suspension kit is being installed on a ***2006 - 2008 Triumph® Daytona 675,*** use the two-piece, stepped, bushing-reducer set in the bottom shock eyelet.

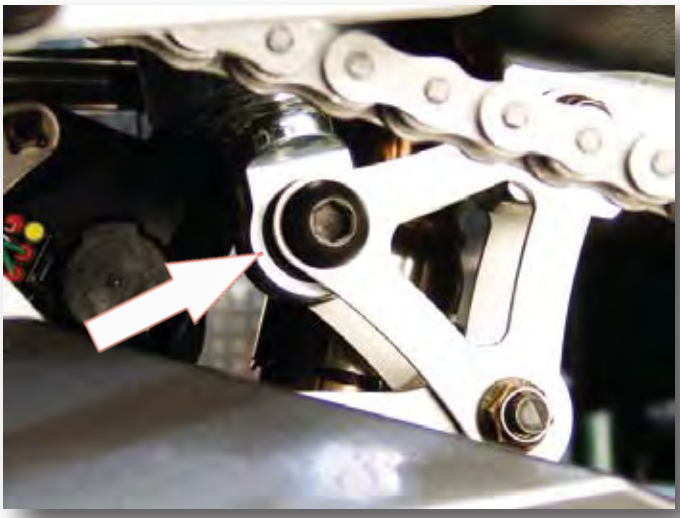
(C.) INSTALLING THE REAR AIR SHOCK:

3. Depending on the model of motorcycle the kit is being installed on the bushings will differ, on the schematic are the descriptions of which bushings go with which motorcycle.

4. Carefully slip the new shock absorber into place, make sure that the adjuster knob and the air inlet are facing the rear of the bike.



5. Reinstall the OEM hardware in the upper shock eyelet and mount. Apply 2-3 drops of Loctite® 242 (Blue), to the bolt threads and torque to 32 ft lbs (44 Nm).



6. Reinstall the OEM hardware in the lower shock eyelet and mount. Apply 2-3 drops of Loctite® 242 (Blue), to the bolt threads and torque to 32 ft lbs (44 Nm).

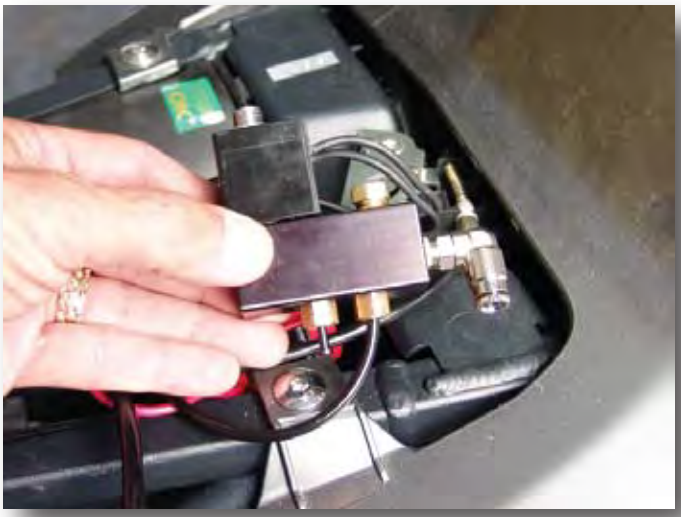
(D.) INSTALLING THE INFLATION SYSTEM:

The inflation system consists of a compressor with a remote solenoid/distribution valve block. The basic system comes with a toggle switch that can be installed several places on your bike. The final location of the switch is your choice.

Split loom is provided to cover the air hose as well as protect and hide any exposed wiring.

1. Disconnect the battery, negative (-) cable first.

2. Find a suitable location to mount the on board compressor. Wherever the compressor is to be mounted be sure it does not interfere with the normal operation of the motorcycle.



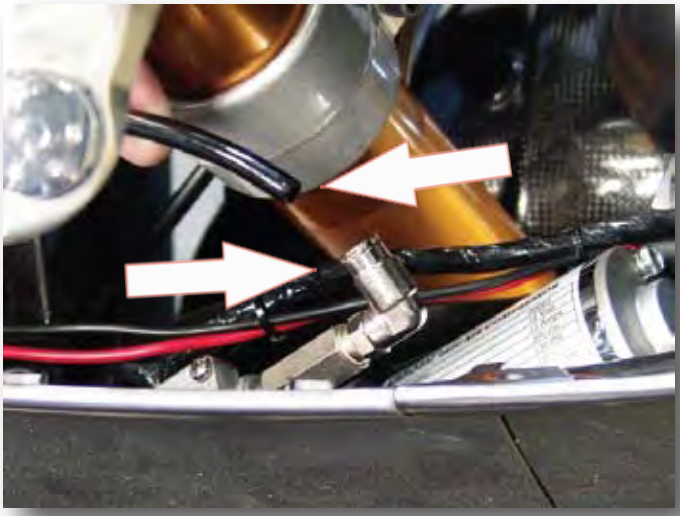
3. A preferred location for the distribution valve block is under the seat. Included in the kit is a speed reducing muffler that can be installed at the opposite end of the elbow and will allow you to adjust the speed of the drop.

4. Connect the ¼" line to the valve block via the *"push to connect"* fitting. Simply push the line into the 90° fitting until seated.

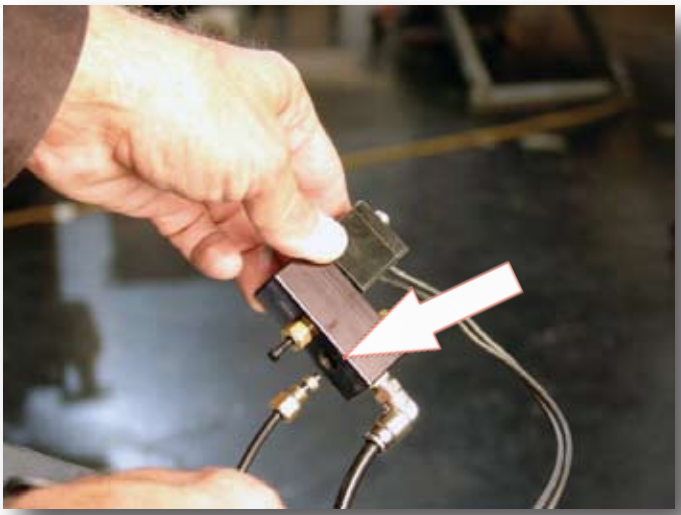
NOTE: Make sure air line is cut square on the end to ensure a good seal in the fitting.

NOTE: A system schematic is included for reference.

5. Route the ¼" air line from the distribution valve block to the compressor. There is no specific routing, use your judgement. Try to hide and protect the air line but avoid a route that could cause a kink in the air line.



6. Connect the ¼" air line to the compressor by inserting the line into the 90º *"push to connect"* fitting. Make sure the lip of the fitting is fully extended, then gently tug on the line to ensure a good connection.



7. Connect the 4mm air line to the distribution block with one of the 4mm VOSS® fittings. Assemble instruction for the fittings are supplied in the kit.
NOTE: Fittings seal with an o-ring,
DO NOT OVERTIGHTEN!

8. Connect the 4mm air line from the distribution valve block to the shock absorber.

NOTE: A system schematic is included for reference.

9. Find a suitable location to mount the toggle switch. There are a number of locations the can be utilized to mount the toggle switch. Ultimately the location of the switch is up to the installer.

10. Included in the kit is a system relay, refer to the schematic for a wiring diagram.

11. Find a location for the fuse assembly near the battery. Connect the ring terminal of the fuse assembly to the battery positive (+) terminal. Connect the other side of the fuse to the remaining terminal of the relay.

12. Reconnect the battery cables, torque to 60-96 in-lbs (6.8-10.9 Nm). Power up the system and pressure test the system. Check for leaks with soapy water in a spray bottle at all fittings and connections.

NOTE: A system schematic is included for reference.

WARNING

ALWAYS SECURE YOUR MOTORCYCLE IN A WHEEL CHOCK WHEN UNATTENDED, OR SHORTEN THE SIDE STAND, AS IN THE EVENT OF FAILURE THE BIKE COULD FALL OVER.

Thank you for purchasing an Arnott Air Ride Suspension Product!

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 spring 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.

WARNING

DO NOT ADJUST THE AIR RIDE SYSTEM WHILE THE BIKE IS IN MOTION, DOING SO CAN AFFECT STABILITY AND HANDLING, THIS COULD RESULT IN DEATH OR SERIOUS INJURY.

DISCLAIMER

The terms Honda®, Yamaha®, Triumph®, CBR1000RR® and CBR600RR® are used for reference only. Arnott Air Suspension products are in no way authorized by nor associated with the aforementioned manufacturers. All references to Honda®, Yamaha®, Triumph®, CBR1000RR® and CBR600RR® terms and model names 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 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 off-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 manufacturers warranty. These directions are accurate at time of publication. Arnott Inc. reserves the right to revise specifications without notice.