



# 2000- 2017 NON ABS



2000-2017 Harley stock frames with NO ABS

Kit Includes:

Shock body

Compressor with bracket

Diverter valve

Switch Harness

Relay Harness

1/4 DOT Airline

2000-06 bikes will include a 7/16- 18 Tap

(No tap need for 07 and up)

Prepare:

- Raise bike with lift
- Support rear wheel with an adjustable jack so you can raise & lower spring arm
- Support front wheel



Remove the seat, splash guard, battery and stock shocks.

(If the stock shoulder bolts



are difficult to break free, use a heat gun at the shock boss) On 2000-2006 models, you will need to tap the existing holes in the bottom of the transmission housing (tap included) in order to mount the compressor.

2007 and up holes are already tapped

Before installing compressor, mount diverter valve to bracket.

Color coded in red



Compressor installed correctly (2007- up non ABS shown)



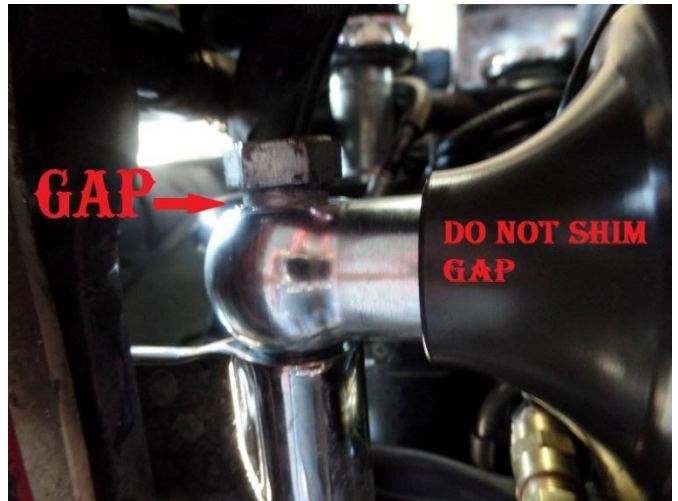
Install 1/4" line from diverter valve to compressor now (trim)

After mounting compressor, install Shotgun Shock using stock shoulder bolts (Use red loc-tite on threads of stock shoulder bolts, and anti-seize on the shoulders)



You do not need to use the factory washer when installing the stock shoulder bolts, in fact, there will be a gap between the head of the bolt and the shock eyelet. This is normal. The rear shoulder bolts act as an axle

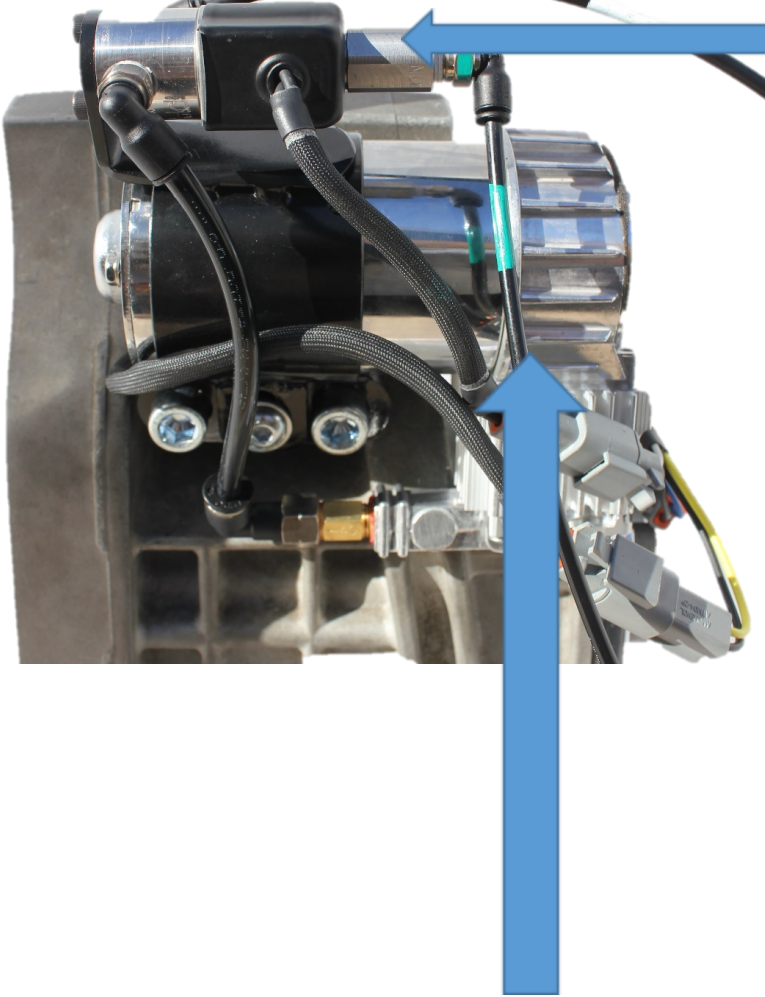
Shock Installs with logo plate facing up





With shock installed trim and install airlines into diverter valve. Be sure not to cut the lines too short, also be sure they do not get pinched or kinked

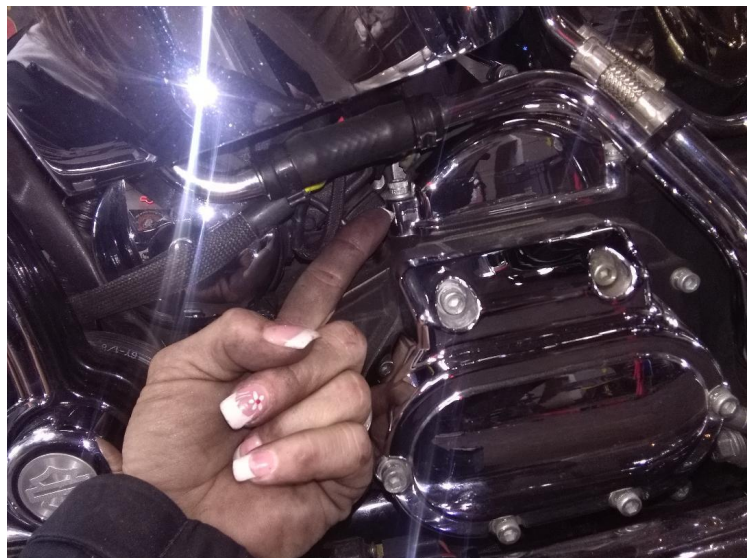
“BLACK” line from front of shock into black 5/32” fitting



Green line from rear of shock into green fitting

### **Install the relay harness**

- by routing it up through the front hole of the battery box.  
(the side of the harness with the red and black wires and single plug hooks up to the battery.)



-Once the harness is up through the battery box, you can tuck the relay up behind the oil tank.



-Route the harness over the starter cover and back toward the splash guard area.



-Bring the 3 plugs to the back of the splash guard area, where you will later plug in the components.

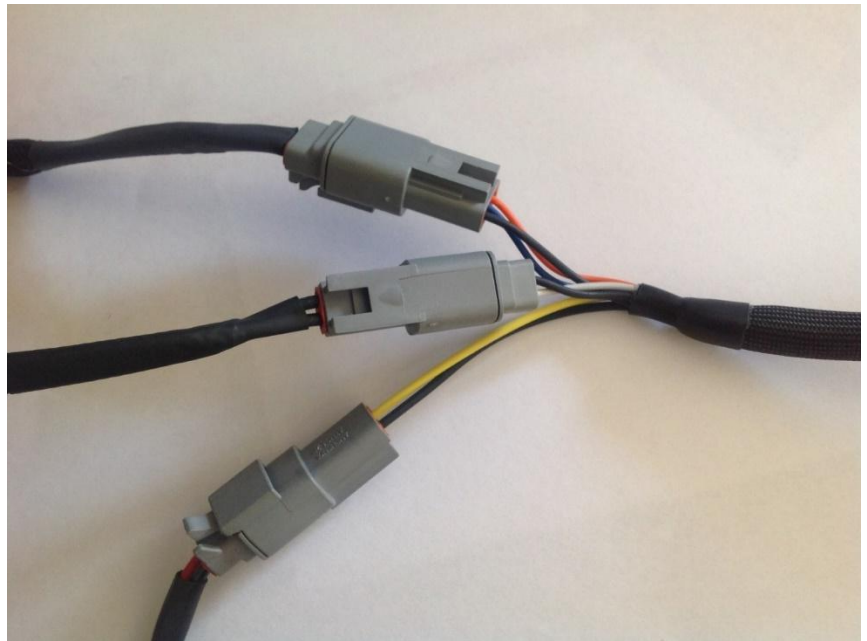
\*Be mindful of the swingarm movement, don't put the harness in





a place where it will get pinched when the swingarm moves up and down.

Next, you will plug in the relay harness to the shock, compressor and diverter valve. It is important to remember that the swingarm will be moving up and down, so you will need to take special care when routing the wiring and airlines, so that nothing gets pinched or kinked.



There is only ONE correct way to plug in the harness

**REPLACE BATTERY AND CONNECT POSITIVE AND NEGATIVE DIRECTLY TO BATTERY**

**REPLACE SPLASH GUARD, AND SEAT.**

**LOWER BIKE TO GROUND.**



Switches Mount on horn bracket

Route switch wiring  
under ground strap and  
plug into relay harness



To test system:

Put bike in neutral run both switches down, Tire will go up into fender,

Roll the tire to check for anything rubbing.

Run both switches up to pressurize system

**AFTER TESTING SYSTEM, REPLACE SEAT, AND SPLASH GUARD**

Lower bike to ground, you may need to run both switches up to pressurize the system more the first time.

To raise bike: both switches up

To lower bike: rear switch down

To firm suspension: front switch up **ONLY**

To soften suspension: TAP front switch down, then TAP rear switch up

USE BOTH SWITCHES UP TO RAISE BIKE, (the system has to pressurize the first time you operate it, so it may take a few moments to raise.)

HOLD BOTH SWITCHES UP UNTIL BIKE IS AT ITS FULLEST HEIGHT

USE REAR SWITCH DOWN TO LOWER BIKE WITH COMPRESSED AIR

TO FIRM SUSPENSION, USE FRONT SWITCH UP ONLY

TO SOFTEN SUSPENSION “TAP” FRONT SWITCH DOWN THEN, REAR SWITCH UP

WE SUGGEST YOU BECOME FAMILIAR WITH THE SWITCHES BEFORE ATTEMPTING TO ADJUST YOUR SUSPENSION WHILE RIDING

**NEVER HIT THE FRONT SWITCH DOWN WHILE YOU ARE RIDING, THIS RELEASES THE AIR THAT IS HOLDING BIKE UP, AND BIKE LOWERS QUICKLY.**

ANY QUESTIONS, PLEASE CALL 323-359-4914