INSTALLATION PROCESS:
FK003D813-5 Complete Brake Line Kit
2013 KAWASAKI NINJA 650 ABS

> Torque specifications
> Stainless steel 15-17 ft. lbs
> Aluminum 12-15 ft. lbs

Step 1:
Identify the key components that complete our brake line kit:
You should have Five (5) lines, One (1) double banjo bolt, Four (4) single banjo bolts. We have also included a total of Thirteen (13) washers; Eleven (11) will be used, and Two (2) will be spares. We strongly suggest having a professional mechanic install your brake lines, all other installs may void your warranty.

Step 2:
To ensure there is no paint damage from the brake fluid, completely cover the front and rear end of the bike. Installing brake lines can be a messy process, and brake fluid *WILL* spill!

Step 3:
After bleeding and drying out the OEM brake system, uninstall your stock hoses. Take note of how the stock system was routed in case you need to re-install the hoses.

Step 4:
Familiarize yourself with the new Galfer brake lines; notice that each line is labeled for application. **Lines A, B and C** will be installed on the front end of the bike and **Lines D and E** will be used for the rear application.

NOTES:
- We refer to "left" and "right" as if you are sitting on the motorcycle
- Torque all stainless steel bolts to 15-17 ft pounds
- Torque all aluminum bolts to 12-15 ft pounds
- Torque all male fittings to 5-7 ft pounds

Step 5: Step 5:
Locate **Line A,** this line will travel from the front master cylinder back to the ABS unit using the sock routing using the provided brake line retaining clips. Locate **Lines B and C,** these lines will be installed at the front calipers **Lines-B-C** will be joined at the right caliper using a double banjo bolt Line-B will travel back to the ABS UNIT in front of the lower triple using a Clip-1 Joining line-A both travling alongside the upper frame using both Clip-2 **Line-C** will travel over the front fender to the left caliper. **Refer to drawing for guidance.**

Step 6:
Locate **Line D,** install this line to the rear master cylinder and route to the ABS unit. Locate **Line E,** install this line to the rear caliper route the line along the swing arm up to the ABS unit. **Refer to drawing for guidance.**

Step 7:
Before you begin the next step, please check the clearance of your new lines. When the front end is fully extended or compressed, make sure the lines do not bind with anything. Be sure to triple check that the lines are traveling correctly and are clear from any obstructions.

Step 8:
Bleed your brake system according to the owner's manual. Add Galfer DOT-4 brake fluid to the system and build appropriate pressure.

Step 9:
Once you have bled the system, please check the brake fluid level in your master cylinder. Top off your brake fluid according to your manual and close the brake fluid reservoir. To ensure there are no leaks or other issues, zip-tie the brake lever to the throttle for at least 2 hours. For the rear; use a jug or something similar to apply pressure to your brake pedal for at least 2 hours. For the clutch; zip-tie the clutch lever to the handle bar for at least 2 hours. If the lines are not leaking and all else looks good, (bolts are tight and torqued down to specification, washers are in place, and lines are clear from obstruction) you are now ready to ride with the new brake system.

Please be aware that the overall braking feel has been changed dramatically. We suggest taking it easy while you get used to the new brake lever pressure and feel. We recommend checking your brake system periodically; be sure to check that your bolts are tight and *VERY* carefully check your lines for any leaks or damage. If there are any signs of damage or stress to the lines, the complete brake line kit will need to be replaced. Remember, our brake lines have a LIFETIME WARRANTY!

LINE-A

LINE-B

LINE- B / C RIGHT

LINE-C LEFT CALIPER

LINE-B & A
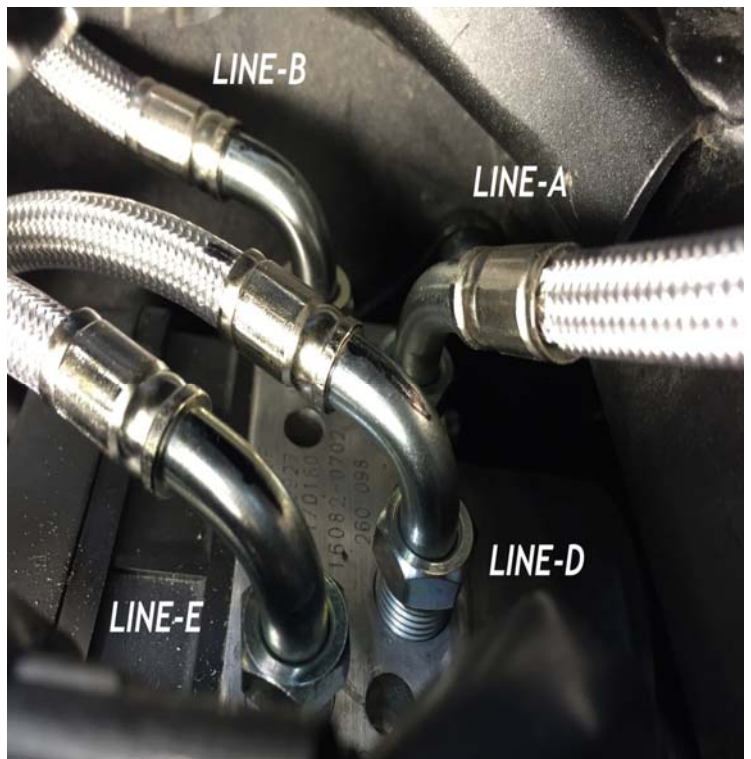

LINE-B & A

LINE-D

LINE-D / E

LINE-E

LINES A,B,D & E ABS UNIT GALFER USA

Learn more about motorcycle brake parts we have.