



## **Powerhose Plus Fitting Instructions**

Congratulations on purchasing Powerhose Plus brake lines from Venhill!

**Powerhose Plus** is the factory-tested, customer-friendly brake line system designed to cut out the hassle and uncertainty associated with old style hoses. Venhill's Powerhose Plus brake lines are factory finished and are the same at both ends with 1/8th BSP swivel socket nuts which simply tighten on to the chosen fittings for your machine.

**Brake lines are safety critical items. If you are in any doubt about how to install or replace Powerhose Plus brake lines correctly, please consult a qualified motorcycle mechanic.**

### **Tools**

To fit Powerhose Plus you will need an 11mm spanner together with a 6mm Allen key to tighten banjo bolts.

### **Step-by-step fitting instructions:**

- 1. Double check the thread compatibility of the banjo bolts for both master cylinder and callipers before starting.**
- 2. Loosely assemble brake lines to end fittings and attach to the vehicle.** Remember to renew all copper washers where they are used. Old washers should not be re-used and replacements are supplied as standard with all Powerhose Plus kits.
- 3. Ensure that the new hoses are correctly routed.** It is important to use the same routing as the manufacturer's original hose. The Powerhose Plus kit has been designed to these dimensions.
- 4. Tighten up all connections using the following torque settings:**
  - Swivel Nuts torqued to 12NM
  - Banjo bolts torqued to 15NM
  - Bleed Nipples (As part of our bleed nipple banjo bolts) torqued to 8NM
  - Adapters torqued to 12NM, the same settings as the swivel nuts.
- 5. Check the operation of the forks and suspension arm to ensure that the brake lines do not become trapped or stressed.**
- 6. Bleed system in accordance with the manufacturer's instructions.** It is particularly important to check that recommended specification fluid is used as some clutches require mineral oil.
- 7. Check all connections for signs of leakage under pressure.** Operate the brake lever to pressurise the system.

### **Brake Fluid**

1177 DOT 4 Plus is a high specification DOT 4 brake fluid formulated to work with Teflon lines braided hose and recommended for use with Venhill Powerhose Plus brake lines. The fluid exceeds ISO 4925, US FMVSS 116 and Japanese standard K2233. Sold in 250ml bottles on [www.venhill.co.uk](http://www.venhill.co.uk).