

# POWERHOSE *PLUS*

## BANJO BOLTS ctd

### DOUBLE

210100D	M10 x 1.00
210125D	M10 x 1.25
210375D	3/8 UNF x 24 TPI
210716D	7/16 x 24 TPI
810100	M10 x 1.00 with light switch (zinc only)
810125	M10 x 1.25 with light switch (zinc only)

Banjo bolts fitted with bleed nipples are also available.

## ADAPTORS AND CONNECTORS

### 1/8 BSP ADAPTORS

3/60800A	M8 x 1.00 Convex
3/60100A	M10 x 1.00 Convex
3/70100A	M10 x 1.00 Concave
3/60125A	M10 x 1.25 Convex
3/70125A	M10 x 1.25 Concave
3/60375A	3/8 UNF x 24 TPI Convex
3/70375A	3/8 UNF x 24 TPI Concave
3/60716A	7/16 x 24 TPI Convex
3/60722A	7/16 x 22 TPI Convex

### BULKHEAD ADAPTORS

3/80100A	M10 x 1.00
3/80125A	M10 x 1.25
3/80375A	3/8" UNF x 24 TPI

### 1/8 BSP FEMALE ADAPTORS

3/60100FA	M10 x 1.00
3/60125FA	M10 x 1.25
3/60375FA	3/8 UNF x 24 TPI

### 1/8 BSP T CONNECTOR

776-L	3x 1/8 BSP tee without mounting hole
776/1	2x 1/8 BSP to M10 x 1.00 female convex, tee
776/2	1x 1/8 BSP to M10 x 1.00 female convex, 90 degree elbow
776/3	3x 1/8 BSP tee
776/4	1x 1/8 BSP to M10 x 1.00 female convex, straight inline
776/5	2x 1/8 BSP to M10 x 1.00 female concave, tee
E620	1/8 BSP 20 degree swivel joint
E645	1/8 BSP 45 degree swivel joint
E690	1/8 BSP 90 degree swivel joint
HD776A	2x 1/8 BSP to 1/8 NPT, for Harley Davidson pressure switch

### COPPER WASHERS

C106	6mm
C108	8mm
C101	10mm
C111	11mm (Suitable for 7/16 fittings)

## Our range of other products includes:

- Featherlight control cables
- Speedo & Tacho cables
- Custom cable design and prototyping
- Controls & tools
- Cable components



# VENHILL

PERFORMANCE QUALITY SAFETY STYLE

## POWERHOSE *PLUS*

Fitting Instructions



For more information  
please contact your local distributor  
or Venhill directly

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The Ultimate Performance  
Braided Brake Line System

# POWERHOSE PLUS

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## 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 terminated at both ends with 1/8th BSP swivel socket nuts which simply tighten on to the chosen fittings for your machine.

## FITTING INSTRUCTIONS

**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. Male and female hose adaptors will also need 13mm and 15mm spanners respectively.

## 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. These 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 the recommended specification of 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 lined 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 through your dealer or on [www.venhill.co.uk](http://www.venhill.co.uk).

## POWERHOSE PLUS FITTING RANGE

The majority of fittings are available in Stainless Steel, Chrome and Black.

<b>Suzuki and most European machines</b>	<b>M10 x 1.00mm/M10 x 1.25mm</b>
<b>Honda, Yamaha, Kawasaki and Triumph</b>	<b>M10 x 1.25mm</b>
<b>Early Triumph &amp; Norton</b>	<b>3/8 UNF x 24TPI</b>
<b>Harley Davidson</b>	<b>7/16 x 24TPI &amp; 3/8 UNF x 24TPI</b>



## 1/8 BSP BANJO CONNECTORS

3/60061	6mm Straight banjo
3/60062	6mm Banjo, 20 degree
3/60081	10mm Straight Banjo
3/60082	10mm Banjo, 20 degree
3/60082L	10mm Banjo, 20 degree with 20 degree side bend left
3/60082R	10mm Banjo, 20 degree with 20 degree side bend right
3/60084	10mm Banjo, 90 degree
3/60085	10mm Banjo, 20 degree side bend
3/60086	10mm Banjo, 75 degree
3/60087	10mm Banjo, 45 degree
3/60087L	10mm Banjo, 45 degree with 25 degree side bend left
3/60087R	10mm Banjo, 45 degree with 25 degree side bend right
3/60088	7/16 Straight banjo
3/60089	12mm Straight banjo
3/60090	10mm Banjo, 45 degree side bend
3/60091	8mm Straight banjo
3/60092	8mm Banjo, 20 degree
3/60093	8mm Banjo, 45 degree
3/60094	8mm Banjo, 90 degree
3/60097	7/16 Banjo, 45 degree
3/60098	7/16 Banjo, 90 degree
3/60163	6mm Banjo, 90 degree long neck side bend
3/60184	10mm Banjo, 90 degree long neck bend
3/60184L	10mm Banjo, 90 degree long neck bend with 20 degree side bend left
3/60184R	10mm Banjo, 90 degree long neck bend with 20 degree side bend right
3/60186R	10mm Banjo, 70 degree long neck bend with 60 degree side bend right
3/60193	10mm Banjo, 90 degree long neck side bend
3/60194	10mm Straight long neck banjo
3/60284	10mm Banjo, 90 degree extra-long neck bend
3/60286R	10mm Banjo, 75 degree extra-long neck bend with 15 degree side bend right

## BANJO BOLTS

### SINGLE

110100D	M10 x 1.00
110125D	M10 x 1.25
110375D	3/8 UNF x 24 TPI
110716D	7/16 x 24 TPI
710100-L	M10 x 1.00 with light switch (zinc only)
710125-L	M10 x 1.25 with light switch (zinc only)
710375-L	3/8 UNF x 24 with light switch (zinc only)