

V-Twin Mfg.
3" Extended Forward Controls
For use on 1986-1999 ST and 1958-1984 FX-FL Models
VT Part No. 22-0758

This is a custom application and rider safety depends on proper installation. This product should only be installed by a knowledgeable and trained motorcycle technician. V-Twin Mfg. accepts no responsibility for improper installation.

Notes:

1. This unit will not fit FLST and FL models with Stock Fenders.
2. Brake switch modification and line replacement will be required.
3. The master cylinder will accept a standard 10mm banjo bolt.
4. The OEM foot boards if equipped can not be used with this kit.
5. Some hardware and shifter linkage may have to be purchased separately for proper fitments.
6. Use thread lock on all hardware.

Installation Instructions

Left side:

1. Secure the motorcycle on a lift or stand upright.
2. Using the service manual remove the OEM side stand and foot boards, or forward pegs if equipped.
3. Secure the transmission shift rod to the forward control inner lever.
4. Install one 5/16-18X3/4 bolt provided in the kit, into the lower front side stand hole of forward control bracket.
5. Using three 3/8-16X3/4 bolts, provided with the kit install the left bracket as shown. Torque hardware to OEM specification. See figure 1.
6. Using three 5/16-18X3/4 bolt and the one installed in step 4, reinstall the OEM side stand.
7. Install and torque the left foot peg using the supplied hardware.
8. Adjust shift rod as necessary.
9. Install the shifter peg. See figure 2 for left side installed view.
10. Insure all hardware is properly torqued.
11. Check for proper movement of shift linkage prior to test ride.

Right side:

1. Using the service manual remove the brake line, master cylinder, brake pedal, and OEM foot boards, or forward pegs if equipped.

NOTE: Take care not to get any contamination into the brake line.

2. Using two 3/8-16x3/4 bolts, provided with the kit and install the right forward control assembly. Torque hardware to OEM specification.
3. Install the brake line.
4. Install and torque the right foot peg and brake peg using the proper hardware. See figure 3 for right side installed view.
5. Bleed the brake system using the instructions provided in the service manual.
6. Insure all hardware is properly torqued.
7. Check for proper brake operation prior to test ride.

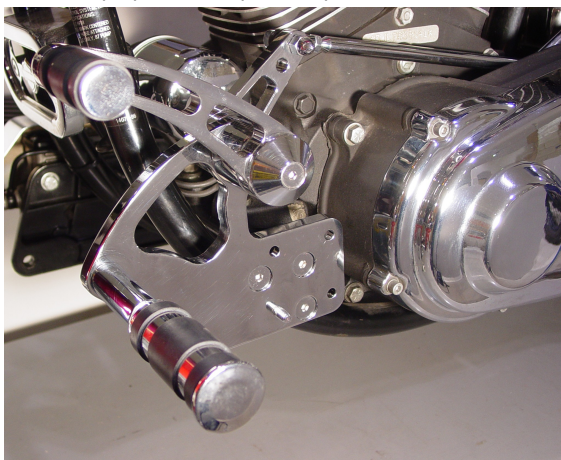


Figure 1

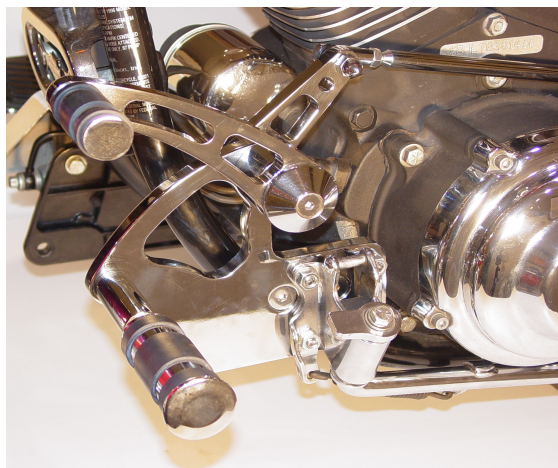


Figure 2



Figure 3

Parts list

Description	Qty
Left Forward control assembly	1
Right Forward control assembly	1
5/16-18X3/4	4
3/8-16X3/4	5

Forward Controls Brake lines Installation Tips

After installing the Forward Control Kit, we selected the parts for the brake line installation. There are many options available depending on the look and the motorcycle you are working on. Measure each brake line length requirement. This will ease the installation. The following is a suggested method.



1. The master cylinder does not have a flare in the outlet port. You will need a banjo fitting and bolt or a flare fitting to install the front section brake line. On our installation we selected the proper fitting (VT No. 23-1988) and 150 degree line (VT No. 23-4284).

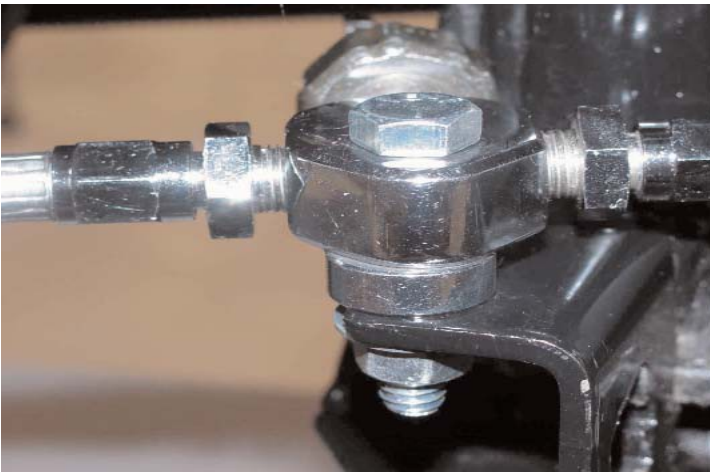


2. Working from the rear caliper we installed a banjo fitting (VT No. 23-4047) and a 12" Russell brake line (VT No. 23-8020).

3. Using a Billet Aluminum brake block (VT No. 23-9228), Brake switch (VT No. 32-0443), and 2 fittings (VT No. 23-4396) to replace the OEM brake switch and provide a secure mounting location for the rear of the line assembly.

4. Select the proper line length for the bike you have. Consider the routing to determine the proper length. We selected a 30" line (VT No. 23-8110).

5. Secure the rear and front lines to the brake block.



6. Using Loctite, secure the brake block on to the frame insuring sufficient room for the brake line wires. A spacer may be necessary.

8. Refer to the service manual to properly bleed the brake system.



7. Secure the brake line as shown.