

**V-Twin Mfg.
Forward Control Kit
VT No. 22-1035
Fits 1982-1994 FXR**

Order 23-0424 Clevis if Required

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

RIGHT SIDE – BRAKE:

1. Remove brake lever stop, back pushrod all the way off plunger, remove footpeg and brake lever bracket mounting bolts. Lift entire assembly from the bike.
2. Remove front highway footpeg and bracket.
3. Mount main brake bracket (31) to frame using two 3/8"-16 x 3/4" bolts (11) and two 3/8" lockwasher (16). Install 5/16"-24 x 3/4" bolt (21) and 5/16" nut (18) onto stop tab.
4. Assemble long footpeg mount (30) to main brake bracket using 3/8"-16 x 1" bolt (12) and 3/8" lockwasher (16). Add footpeg (6) using 1/4"-20 x 1 1/4" bolt (14) and 1/4" nut (17).
5. Screw zerk fitting (36) into brake pedal (28), insert two bushings (19) into pedal base, slide onto main brake bracket (31) Shaft and install 1/2" flatwasher (24), 1/2" lockwasher (25) and 1/2"-20 acorn nut (26). Lubricate with grease.
6. Thread 5/16" jam nuts (20) all the way onto both ends of the brake rod (27) and screw clevis (38) short clevis for late 1987-up, (32) long clevis for all others onto long end of brake rod.

NOTE: In some applications it may be necessary to reverse the brake rod, using the short end forward, to clear exhaust system mounting.

7. Screw bent end of brake rod into master cylinder plunger by turning hex nut on plunger. Place clevis onto brake arm (28) and install clevis pin (22) 1/4" flatwasher (37) and cotter key (23). See caution note on illustration.
8. Adjust and tighten all hardware to proper specifications.

LEFT SIDE SHIFTER :

1. Remove leftside footpeg and bracket.
2. Remove shift lever (3) and shift rod (7) with forward rod end and install shift lever retainer (10) so that old shift arm is held down and out of the way. Then Install shaft cover (9) with set screw (15).
3. Remove leftside highway footpeg and bracket.
4. Insert two bushings (19) in main shifter bracket (1) and install shift lever and shaft (2) then mount bracket assembly using two 3/8"-16 x 3/4" bolts (11) and two 3/8" lockwashers (16).
5. If motorcycle is early 1986 or older use shift rod (7) with two right hand threads. If motorcycle is late 1986 or newer use shift rod (8) with one left hand and one right hand thread. Replace O.E.M. shift rod with correct rod as listed above. Use jam nuts (20). Install forward shift rod end into new shift lever and shaft (2) using acorn nut (18). Mount new foot lever (3) using bolt (13) and nut (35). Install shift rubber (4).
6. Secure short footpeg mount (5) to main bracket (1) using 3/8"-16 x 1 inch bolt and lockwasher (16). Mount footpeg (5) to short footpeg mount (5) using 1/4"-20 x 1 1/4" bolt (14) and 1/4"-20 nut (17).
7. Tighten adjusting nuts, and all nuts and bolts.

NOTE: Loctite all nuts.

NOTE: Bike should be carefully test ridden at slow speed to make sure it is operating correctly, before open road use.

Item	Qty	Description	Item	Qty	Description	Item	Qty	Description
1	1	Main Bracket Shifter	14	2	1/4"20x1 1/4" Bolt	27	1	Brake Rod
2	1	Shift Lever & Shaft	15	1	1/4"-20x1/4" Set Screw	28	1	Brake Pedal
3	1	Foot Lever	16	6	3/8" Lockwasher	29	1	N/A
4	1	Shift Rubber	17	3	1/4"-20 Nut	30	1	Footpeg Mount (Long)
5	1	Foot Peg Mount	18	2	5/16"-24 Acorn Nut	31	1	Main Bracket Brake
6	2	Footpeg	19	4	Bushing	32	1	Brake Rod Clevis (Long)
7	1	Shift Rod-2-right threads	20	4	5/16"-24 Hex Nut	33	1	N/A
8	1	Shift rod Left & Right	21	1	5/16"-24x3/4" Bolt	34	1	N/A
9	1	Shaft cover	22	1	Clevis Pin	35	1	5/16"-24 Self Lock Nut
10	1	Shift Lever Retainer	23	1	Cotter pin	36	1	Zerk Fitting
11	4	3/8-16x3/4" Bolt	24	1	1/2" Flatwasher	37	1	1/4" Flatwasher
12	2	3/8-16x1" Bolt	25	1	1/2" Lockwasher	38	1	Brake Rod Clevis (Short)
13	1	5/16"-24x1 1/8" Bolt	26	1	1/2"-20 Acorn nut			

Caution: All bolts should have Loctite on first three threads. It is very important that when putting on the new brake rod (27) that plunger free play is set according to applicable OEM specifications. When installing the shift lever retainer (10) loosen rear crank case bolt and insert retainer and retorque to 15-19 ft-lbs. Be sure to hold bolt to prevent turning.

