

V-Twin MFG.
Chrome Forward Control Kit W/Cats Paw Peg Set/Shifter Peg
For use on 1991-2003 XL Models
VT No. 22-0719

This 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.

This kit is designed for installation on 1991-2003 XL models and includes all parts required to make a complete conversion from the standard controls to forward controls.

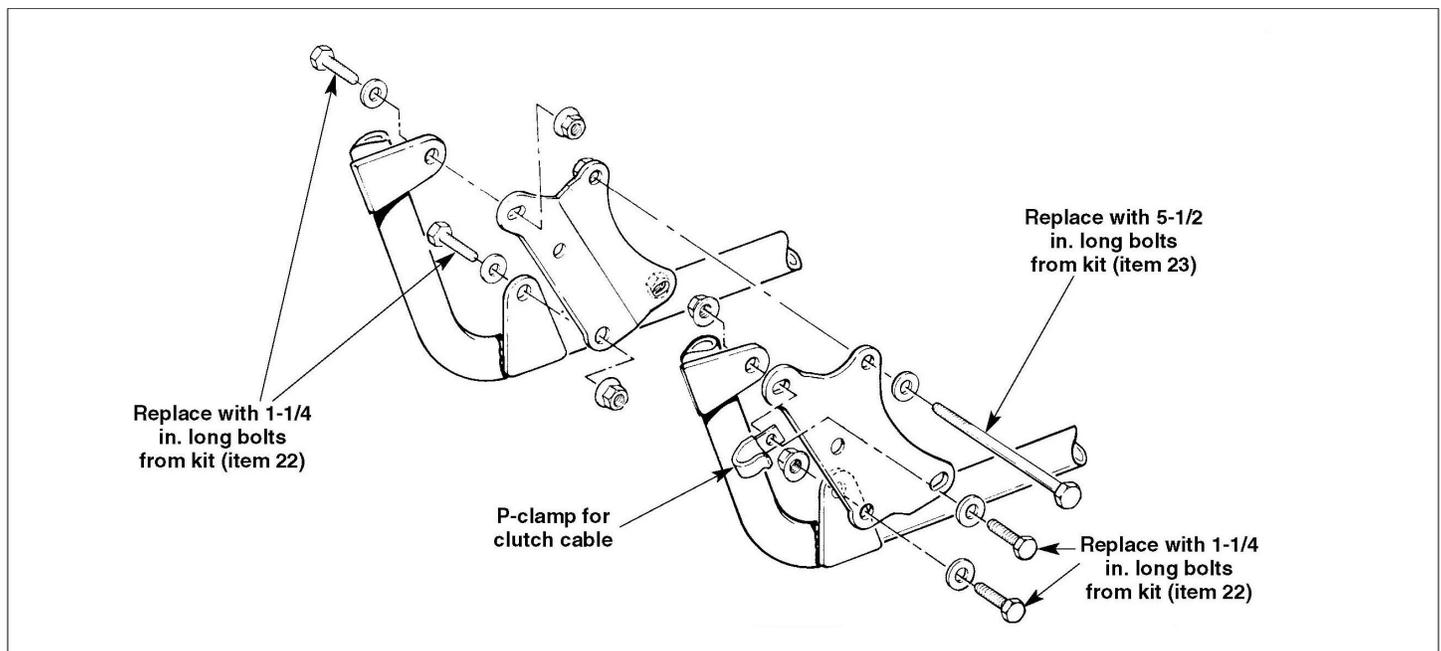
Installation Instructions:

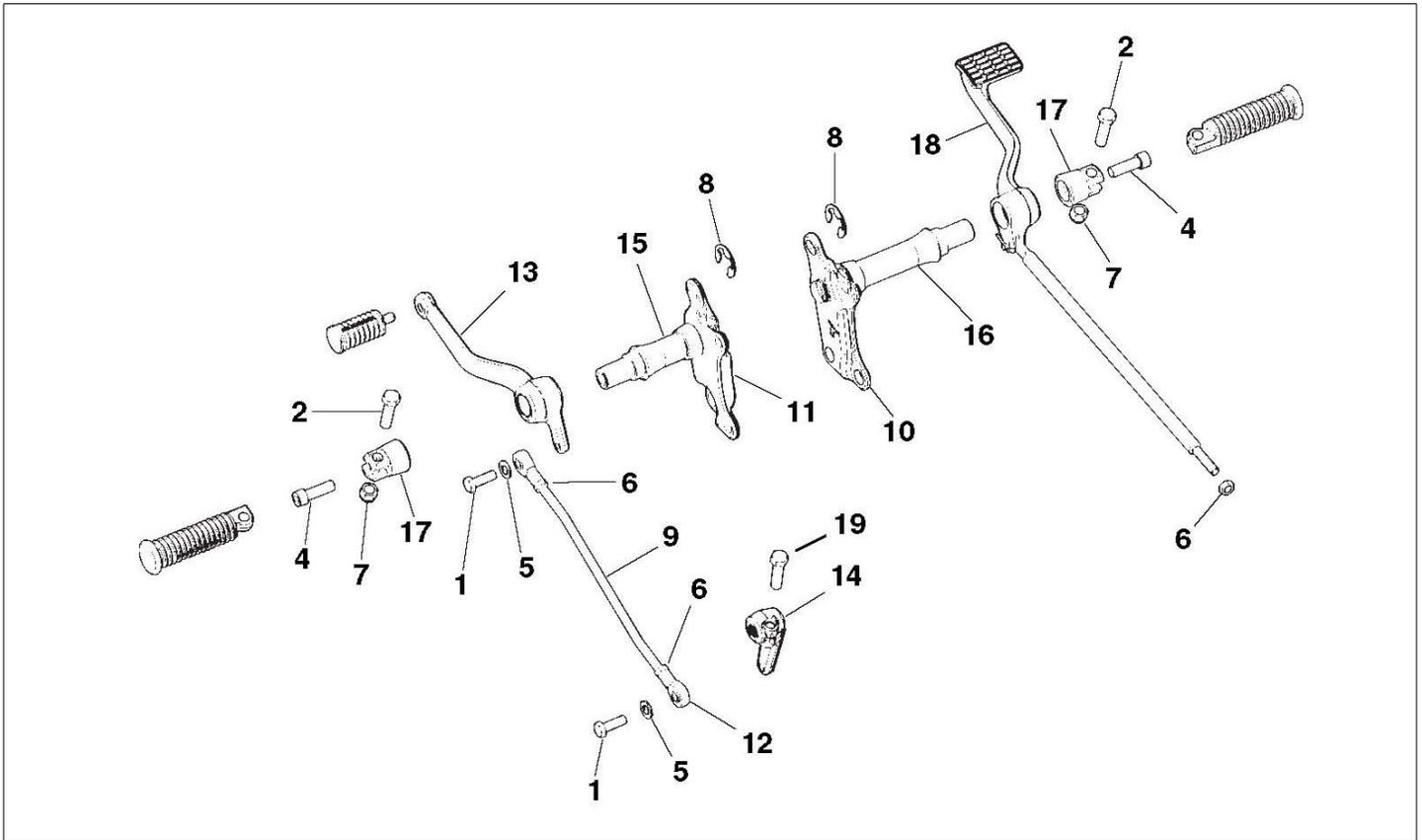
Left (Shifter) Side

1. Remove stock footrest assembly and save footrest for re installation. Replace existing socket head cap screws that attached footrest bracket to primary cover with washers (5) and shorter bolts (21) from kit.
2. Remove stock shift lever and save shifter peg and mounting screw.
3. Remove left side stock motor mount and save nuts, washers, and P-clamp for clutch cable. The bolts will be replaced.
4. Use thread lock on thread of left side foot control support (15) and thread into left side motor mount (11). Install C-clip (8) onto support where it exits the backside of machine motor mount to hold support in place.
5. Install left side motor mount assembly in place of stock motor mount using washers and nuts saved from step 3, and bolts (22 and 23) from kit. Tighten bolts to 25-30 ft-lbs. Make sure to reinstall the P-clamp and clutch cable in the same hole location they were removed from in step 3.
6. Install shift lever (14) from kit using stock fastener.
7. Use thread lock on threads of clevis mounting screw (4) and install shift lever pedal (13), clevis (17), and footrest (stock), as shown. To install footrest, place a spring washer (19), along with the mount end of the footpeg, inside the slots of the clevis. Make sure the spring washer is positioned inside the clevis with the square edge towards the inside as shown in Figure 3. Secure footpeg and spring washer with bolt (2) and locknut (7). Tighten locknuts to 19 ft-lbs.
8. Assemble tie rod ends (12) and jam nuts (6) to shift rod (9) and connect assembly to shift lever pedal and shift lever with washers (5) and bolts (1). Make sure that the bends in the shift rod are positioned properly.

Right (Brake) Side

1. Remove exhaust system according to the instructions listed in the service manual.
2. Remove clip that holds brake line on sprocket cover.
3. Remove the two socket head screws that hold the rear brake master cylinder in place. Loosen rear brake jam nut at master cylinder. Turn push rod at flats until rod end is free.
4. Remove the three screws that hold the sprocket cover in place.
5. Remove the cotter pin and nut that holds the footrest mount in place. Replace the footrest mount with socket head cap screw (3) from kit and reinstall the nut removed from the footpeg. Save footrest for re installation.
6. Reinstall sprocket cover and brake line clip.
7. Remove right side stock motor mount and save nuts and washers. The bolts will be replaced.
8. Use thread lock on threads of right side foot control support (16) and thread support into right side motor mount (10). Install C-clip (8) onto support where it exits the backside of motor mount to hold support in place.
9. Install right side motor mount assembly in place of stock motor mount using washers and nuts saved from step 3, and bolts (22 and 23) from kit. Tighten bolts to 25-30 ft-lbs (41-47 Nm).
10. Install brake pedal assembly (18) into master cylinder by turning push rod at flats to thread on rod end. Adjust rod length with jam nut (6) until brake pedal has reached a 45 degree angle.
11. Use thread lock on threads of clevis mounting screw (4) and install clevis (17), and footrest (stock), as shown. To install footrest, place a spring washer (19), along with the mount end of the footpeg, inside the slots of the clevis. Make sure the spring washer is positioned inside the clevis with the square edge towards the inside as shown in Figure 3. Secure footpeg and spring washer with bolt (2) and locknut (7). Tighten locknuts to 19 ft-lbs (26 Nm).
12. Reinstall exhaust system according to service manual.





Part List

Item	Description
1	Bolt (2)
2	Bolt (2)
3	Hex socket cap screw (not shown)
4	Screws (2)
5	Washers (4)
6	Hex jam nuts (3)
7	Locknuts (2)
8	C-clips (2)
9	Rod shifter
10	Motor mount, RH
11	Motor mount, LH
12	Tie rod ends (2)
13	Shift lever pedal
14	Shift lever (transmission), chrome
15	Foot control support, LH
16	Foot control support, RH
17	Foot rest clevis (2)
18	Brake pedal
19	Screw
20	Spring washers (2), (not shown)
21	Loctite 243 (2), (not shown)
22	Socket head cap screws (2)
23	Bolts (4), 3/8-24 x 1-1/4 in. long
24	Bolts (2), 3/8-24 x 5-1/2 in. long