

BRAKES

3. Drain the hydraulic brake fluid from the front brake system as follows:
 - a. Attach a hose to the bleed valve (**A**, **Figure 171**) on each caliper assembly.
 - b. Place the loose end of the hose in a container to catch the brake fluid.
 - c. Open the bleed valve on each caliper and apply the front brake lever until the brake fluid is pumped out of the system.
 - d. Disconnect the hoses and tighten the bleed valves.
 - e. Dispose of this brake fluid—never reuse brake fluid. Contaminated brake fluid may cause brake failure.
4. To remove the front lower and crossover brake lines, perform the following:
 - a. On the right-hand caliper, using a brake flare nut wrench, loosen then unscrew the flare nuts (**Figure 172**) securing the lower brake line and the crossover line to the right-hand front caliper.
 - b. On the left-hand caliper, using a brake flare nut wrench, loosen and then unscrew the flare nut securing the crossover brake line (**B**, **Figure 171**) to the left-hand front caliper.
 - c. Remove the screw securing the crossover line bracket and grommet to the fork assembly.
 - d. Remove the crossover line.
5. To remove the middle flexible brake hose, perform the following:
 - a. Hold onto the fitting on the middle flexible brake hose with a wrench. Use a brake flare nut wrench to loosen and then unscrew the flare nut securing the right-hand lower brake line to the middle flexible brake hose.
 - b. Hold onto the fitting on the middle flexible brake hose with a wrench. Use a brake flare nut wrench to loosen and then unscrew the flare nut securing the outlet brake line to the middle flexible brake hose.
 - c. Remove the middle flexible brake hose.
6. To remove the upper brake hose, perform the following:
 - a. Remove the union bolt and sealing washer securing the upper flexible brake hose to the front master cylinder.
 - b. Hold onto the fitting on the upper flexible brake hose with a wrench. Use a brake flare nut wrench to loosen and then unscrew the flare nut securing the inlet brake line to the upper flexible brake hose.
 - c. Remove the upper flexible brake hose.
7. To remove the inlet and outlet brake lines, perform the following:
 - a. Hold onto the fitting on the upper flexible brake hose with a wrench. Use a brake flare nut wrench to loosen and then unscrew the flare nut securing the inlet brake line to the upper flexible brake hose.
 - b. Hold onto the fitting on the middle flexible brake hose with a wrench. Use a brake flare nut wrench to loosen and then unscrew the flare nut securing the outlet brake line to the middle flexible brake hose.
 - c. Using a brake flare nut wrench, loosen and then unscrew the flare nuts securing both the inlet and outlet brake lines to the pressure modulator (**Figure 173**).
 - d. Remove any tie wraps securing the brake lines to the frame and carefully remove the brake lines from the frame.
8. Install new hoses, brake lines, sealing washer and union bolt in the reverse order of removal. Be sure to install a new sealing washer in the correct position.
9. Tighten the union bolt and all flare nut fittings to torque specifications listed in **Table 2**.
10. Refill the master cylinder with fresh brake fluid clearly marked DOT 4. Have the front brake system bled by a BMW dealer.

WARNING

Do not ride the motorcycle until you are sure that the brakes are operating properly.

