INSTRUCTION SHEET



-J01763 Kit Number Z0018.LA REV. 2-7-01

CYCLONE M2 BRAKE LINE KIT

General

This kit is designed for use on all 1999 Cyclone M2 Buell motorcycles. It contains the parts and instructions to replace the brake line and one of the clamps with a new brake line and wireform.

NOTE

A Service Manual is available from your Buell Dealer.

Kit Contents:

QTY.	DESCRIPTION	PART NO.
1	Brake Line	H0522.LB
1	Wireform	H0415.L
4	Banjo Washers	H0412.01A0

Removal

NOTE

Perform the following procedures according to the guidelines given in the 1999/2000 M2 Cyclone Service Manual (Part No. 99491-00Y).

Before beginning procedure, verify that you have enough (approximately one 12 fl. oz./355 mL bottle per motorcycle) D.O.T. 5 brake fluid to complete the procedure and refill the rear brake system.

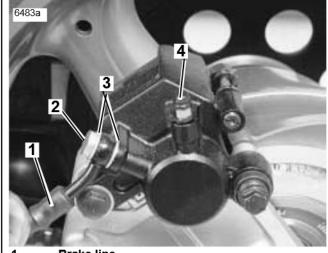
AWARNING

To protect against shock and accidental start-up of vehicle, disconnect the battery cables, negative cable first, before proceeding. Inadequate safety precautions could result in death or serious injury.

WARNING

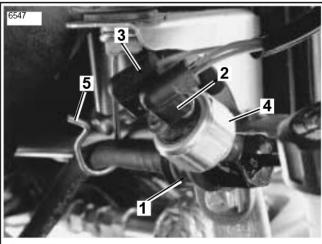
Always disconnect the negative battery cable first. If the positive battery cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

- 1. Disconnect the battery cables, negative cable first.
- See Figure 1. Drain brake fluid into a suitable container. Discard used fluids according to local laws.
 - Remove cap from rear caliper bleeder valve (4).
 Open bleeder valve (metric) about 1/2 turn.
 - b. Install a length of plastic tubing over caliper bleeder valve. Place free end in a suitable container.
 - c. Pump brake pedal to drain brake fluid.
 - Tighten bleeder valve (metric) to 3-5 ft-lbs (4.1-6.8 Nm). Reinstall cap.
- See Figure 3 and 6. Remove and retain brake line fender clamp and hardware from rear inner fender. Remove rear inner fender. See Section 2 of appropriate Service Manual.



- Brake line
- 2 Banjo bolt (metric)
- 3 Banjo washers (2)
- 4 Bleeder valve (metric)

Figure 1. Rear Brake Caliper Banjo Bolt



- 1 Clamp
- 2 Double wire terminal
- 3 Single wire terminal
- 4 Brake lamp switch
- 5 Wire guide (US, CAN, JPN and NZ vehicles only)

Figure 2. Rear Brake Line and Switch

AWARNING

Any leak in brake system will adversely affect brake operation. Damaged banjo bolt seating surfaces will leak when reassembled. Prevent damage to seating surfaces by carefully removing brake line components. Failure to comply could result in death or serious injury.

- See Figure 1. Remove banjo bolt (2) (metric) and two banjo washers (3) to disconnect brake line (1) from rear brake caliper. Discard banjo washers.
- Remove banjo bolt (metric) and two banjo washers to disconnect brake line from rear master cylinder. Discard banjo washers.
- See Figures 3 and 6. Remove screw to detach brake line clamp from lower left oil tank frame tab. Retain the bolt and washer for re-use. Discard clamp.
- See Figure 2. Remove wires from terminals (2,3) at top of brake lamp switch (4).
- See Figures 2 and 6. Remove and retain clamp and hardware attaching brake line to ground strap frame tab.
- See Figures 2 and 6. If applicable, release brake line from wireform attached to lower right oil tank frame tab.
- 10. Remove rear brake line.
- Place brake line in vise (securing hexagonal rear brake light switch fitting). Unthread brake lamp switch from fitting.
- 12. Discard brake line. Retain brake lamp switch.

Installation

NOTE

Place new brake line in vise gently (securing hexagonal rear brake light switch fitting) to prevent bending line while installing rear brake lamp switch.

- Coat threads of rear brake lamp switch with LOCTITE PIPE SEALANT WITH TEFLON and install to new brake line. Tighten switch to 84-96 in-lbs (9.5-10.8 Nm). See Figure 2. Tighten as required to orient terminals as shown in Figure 2.
- See Figures 4 and 6. Install the wireform onto the new brake line as shown.
- From left side of vehicle, feed new brake line from rear brake caliper mount forward to frame mount. Route brake line to the right towards rear master cylinder. Verify brake line is in mounting position on master cylinder.
- See Figures 2 and 6. If applicable, attach brake line to wireform on lower right oil tank tab.
- See Figures 2 and 6. Install screw and clamp (1) to fasten rear brake line ground strap and star washer to frame tube on right side of motorcycle. Tighten to 10-12 ft-lbs (13.6-16.2 Nm). Note: Star washer goes between ground strap and frame tab.
- See Figures 5 and 6. Install new wireform to lower left oil tank tab with original washer and bolt. Washer goes between bolt and wireform.

AWARNING

Any leak in brake system will adversely affect brake operation. To avoid leakage, verify that banjo washers, banjo bolt, hydraulic brake line and caliper bore are completely clean. Failure to comply could result in death or serious injury.

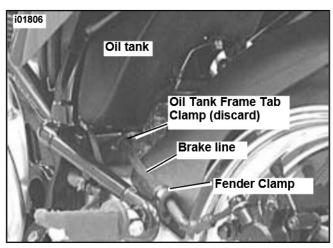


Figure 3. Original Clamp and Brake Line

- Connect brake line to master cylinder with two new banjo washers and banjo bolt (metric). Tighten to 16-20 ft-lbs (21.7-27.1 Nm).
- See Figure 1. Connect brake line (1) to caliper with two new banjo washers (2) and banjo bolt (1) (metric). Tighten to 16-20 ft-lbs (21.7-27.1 Nm).
- 9. Install wires on terminals (2, 3).
- Refill master cylinder reservoir and bleed brakes. See Section 2 of appropriate Service Manual for procedure.
- See Figures 5 and 6. Install rear inner fender. See Section 2 of appropriate Service Manual for procedure. Attach brake line to rear inner fender using original clamp and hardware.

AWARNING

Always connect the positive battery cable first. If the positive cable should contact ground with the negative cable installed, the resulting sparks may cause a battery explosion which could result in death or serious injury.

 Connect the battery cables, positive cable first. See appropriate Service Manual, Section 1 or 7 for procedure.

AWARNING

Riding without an operating brake lamp could result in an accident. Always check for proper brake lamp operation before riding motorcycle (see Step 8). Failure to comply could result in death or serious injury.

 Turn ignition key switch to IGN. Apply rear brake pedal to test brake lamp operation. Turn ignition key switch to LOCK.

WARNING

After completing repairs or bleeding the system, always test motorcycle brakes at low speed. If brakes are not operating properly or braking efficiency is poor, testing at high speeds may result in death or serious injury.

 Test ride vehicle at low speed to ensure that the brakes are operating correctly.

-J01763 2 of 3

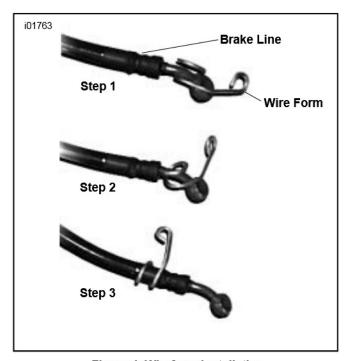


Figure 4. Wireform Installation

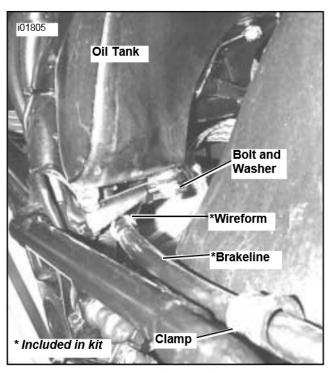


Figure 5. New Wireform and Brake Line

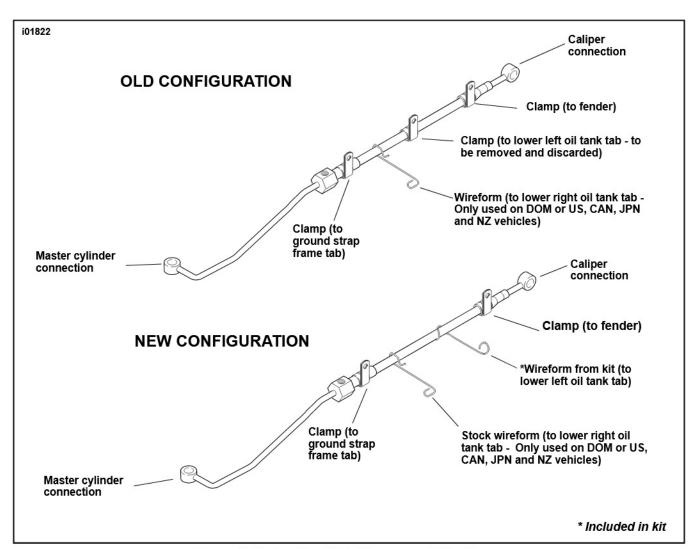


Figure 6. Brake Line With Clamps and Wireforms

-J01763 3 of 3