

# SERVICE BULLETIN **Buell**<sup>®</sup>

B-030

March 9, 2000

**AMERICAN MOTORCYCLES**

## SAFETY RECALL CODE 0818 - 1999 S3 REAR BRAKE LINE

### GENERAL

Buell Motorcycle Company has learned that certain 1999 S3 model motorcycles were built with a rear brake line located in a position that may cause it to become damaged. This condition could result in brake fluid loss. Should this occur the rider could experience loss of rear wheel braking capabilities. Accordingly, Buell Motorcycle Company is conducting a voluntary recall campaign to formally recall all potentially affected motorcycles.

This campaign involves all 1999 S3 Thunderbolt motorcycles manufactured between March 30, 1998 and April 23, 1999.

This condition will be remedied by replacing the rear brake line on all potentially affected vehicles.

### DEALER ACTION, AFFECTED VEHICLES

Buell Distribution Corporation has attached a complete list of all vehicles shipped to your dealership involved in this recall. To ensure the safety of all affected riders, it is your responsibility to perform the required service on all affected vehicles, even if the motorcycle was not purchased from your dealership.

If you are not sure that a safety recall has been completed on a particular Buell motorcycle, contact the recall information line at 1-800-448-1708. Recall information is also available on TALON and hd-net.com.

Initial shipment of the recall kits, Part No. 94000Y, will begin during the week of March 13, 2000. All kits will be shipped direct from the Franklin Distribution Center, no charge, transportation paid. To order the remainder of the updated kits that may be needed, please fill out the attached order form and send/fax it to the Warranty Department at (FAX) 414-343-8346.

Buell Distribution Corporation reserves the right to conduct wave shipments in lieu of processing orders and/or adjusting order quantities, depending on the availability of parts.

The S3 Rear Brake Line recall kit (Part No. 94000Y) consists of:

- Rear Brake Line (1)
- Wire Form (1)
- Banjo Washers (4)

#### IMPORTANT NOTE

*Because only registered owners received notification from Buell Distribution Corporation, we request that you contact any owners of vehicles still listed as unregistered on the original list. Advise them of the safety recall and make arrangements for them to come in for recall service. We also require that you provide us with their names, addresses and V.I.N.s as soon as possible. This will enable us to mail them an owner's letter as required by National Traffic and Motor Vehicle Safety Act, as amended.*

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THIS TO:
INITIAL HERE									

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## REMOVAL

### NOTE

Perform the following procedures according to the guidelines given in the 1999/2000 S3 Thunderbolt Service Manual (Part No. 99489-00Y).

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.

### ⚠WARNING

Always disconnect the negative battery cable when working on motorcycle to prevent accidental startup. 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.

1. Disconnect negative battery cable.
2. See Figure 1. Drain brake fluid into a suitable container. Discard used fluids according to local laws.
  - a. 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.
  - d. Tighten bleeder valve (metric) to 3-5 ft-lbs (4.1-6.8 Nm). Reinstall cap.
3. 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.

### ⚠WARNING

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.

4. 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.
5. Remove banjo bolt (metric) and two banjo washers to disconnect brake line from rear master cylinder. Discard banjo washers.
6. 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.
7. See Figure 2. Remove wires from terminals (2,3) at top of brake lamp switch (4).
8. See Figures 2 and 6. Remove and retain clamp and hardware attaching brake line to ground strap frame tab.
9. 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.
11. 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.

2 of 5

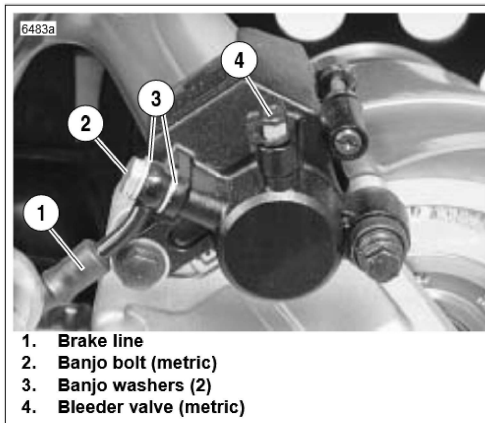


Figure 1. Rear Brake Caliper Banjo Bolt

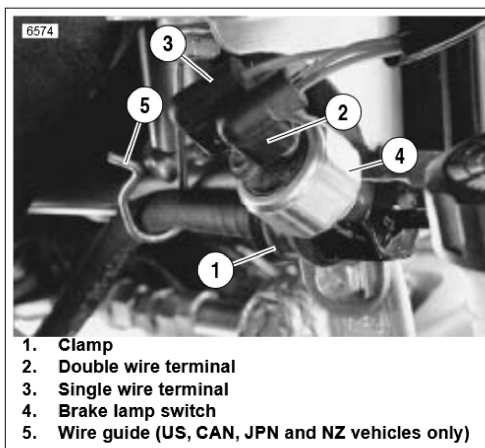


Figure 2. Rear Brake Line and Switch

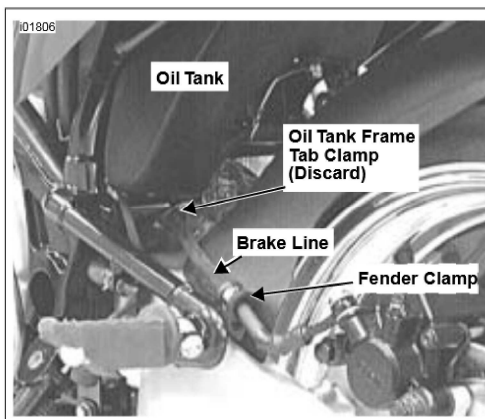


Figure 3. Original Clamp and Brake Line

B-030

## 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.

1. 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.
2. See Figures 4 and 6. Install the wireform onto the **new** brake line as shown.
3. 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.
4. See Figures 2 and 6. If applicable, attach brake line to wireform on lower right oil tank tab.
5. 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.
6. 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.

### WARNING

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.

7. 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).
8. 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).
10. Refill master cylinder reservoir and bleed brakes. See Section 2 of appropriate Service Manual for procedure.
11. 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.
12. Connect negative (-) battery cable to negative (-) battery terminal. See appropriate service manual, Section 1 or 7 for procedure.

### WARNING

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.

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

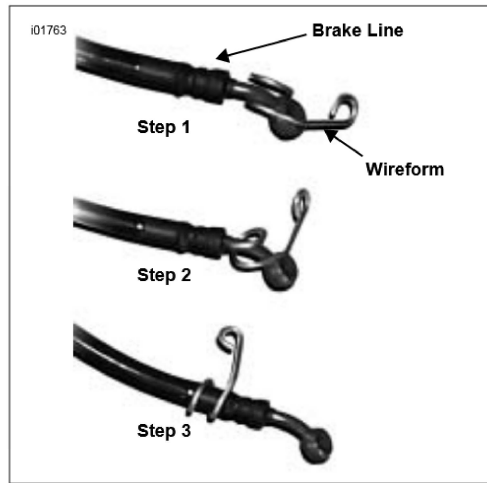


Figure 4. Wireform Installation

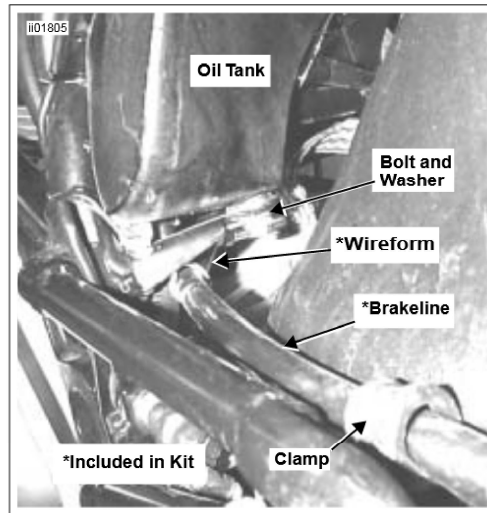


Figure 5. New Wireform and Brake Line

### WARNING

Always test motorcycle brakes at low speed after servicing or bleeding system. Buell Motorcycle Company recommends that all brake repairs be performed by a Buell dealer or other qualified mechanic. Failure to comply could result in death or serious injury.

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

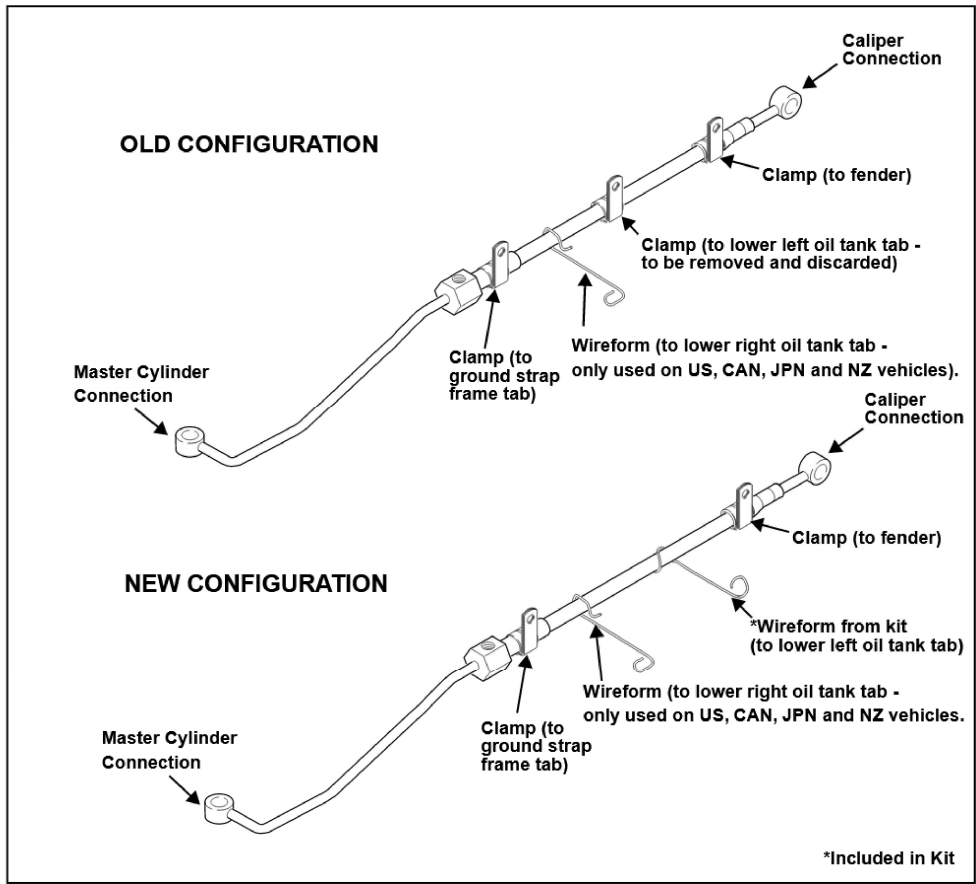


Figure 6. Brake Line with Clamps and Wireforms

## CREDIT PROCEDURES - VEHICLE REPAIR

For each vehicle serviced, place a "C" in the letter box on the Buell Dealer Service Card. **Destroy and discard the original rear brake line.** Send the properly completed dealer service cards to Buell Distribution Corporation. Upon receipt and processing of your properly completed dealer service cards, you will be credited for 0.9 hours for labor and your cost for D.O.T. 5 Brake Fluid. The time includes 0.1 hour administrative time. No credit will be issued for the kits as they were sent no charge, transportation paid.

## CREDIT PROCEDURES - DEALER STOCK PARTS

**Remove and destroy all affected brake lines from your inventory.**

To receive credit, complete a regular warranty claim referencing Service Bulletin B-030 in the "Description of Repair" section. Fill in the rest of the claim as follows.

**Table 1. Credit for Parts**

<b>Claim Type</b>	BDS
<b>Quantity</b>	See Note Below
<b>Event 1, Problem Part No.</b>	45196-99Y
<b>Part Description</b>	Rear Brake Line
<b>Customer Concern Code</b>	9205
<b>Condition Code</b>	4107

*NOTE*

*"Quantity" may vary depending upon what you have in stock.*

Upon receipt of properly completed claim for parts in dealer stock, you will receive the appropriate credit for parts. **Do not order the recall kits to restock your inventory**

*NOTE*

*The recall kit contains the 2000 Model Year Rear Brake Line. Order 2000 Model Year Rear Brake Lines (Part No. 45336-99Y) to replenish your stock.*

