

SERVICE BULLETIN

Buell[®]
AMERICAN MOTORCYCLES

B-031

March 9, 2000

SAFETY RECALL CODE 0819 - 1999 X1 and S3 FUEL FILTER

GENERAL

Buell Motorcycle Company has learned that certain 1999 S3 Thunderbolt and X1 Lightning model motorcycles were built with a fuel filter that could leak. This condition could result in a fire. Accordingly, Buell Motorcycle Company is conducting a voluntary recall campaign to formally recall all potentially affected motorcycles.

This campaign involves all 1999 S3 Thunderbolt and X1 Lightning motorcycles manufactured between January 4, 1998 and April 30, 1999.

This condition will be remedied by replacing the plastic fuel filter on all potentially affected vehicles with the metal fuel filter and bracket provided in the kits.

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.

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.

Initial shipment of the recall kits, Part Nos. 93998Y and 93999Y, will begin 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.

NOTE

The kit below is for all world X1 models and all S3 models except Japanese-market S3 models which should order the next kit listed.

The Fuel Filter recall kit (Part No. 93998Y) consists of:

- Bracket, Fuel Filter Support (1)
- Hose Clamp (4)
- Cable Ties, Thick (3) (1 for fuel pump wiring harness, 2 to secure filter to bracket)
- Cable Tie, Thin (1) (for fuel vent valve)
- Fuel Filter (1)
- Fuel Line, Short (1)
- Fuel Line, Long (1)
- Fuel Pump Electrical Stud Sealing Washer (1)

NOTE

The kit below is for Japanese-market S3 models only and contains a different fuel filter bracket that is required for cooling fan clearance.

The Fuel Filter recall kit for Japanese-market S3 Models (Part No. 93999Y) consists of:

- Bracket, Fuel Filter Support (1)
- Hose Clamp (4)
- Cable Ties, Thick (3) (1 for fuel pump wiring harness, 2 to secure filter to bracket)
- Cable Tie, Thin (1) (for fuel vent valve)
- Fuel Filter (1)
- Fuel Line, Short (1)
- Fuel Line, Long (1)
- Fuel Pump Electrical Stud Sealing Washer (1)

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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INSTALLATION

NOTE

Perform the following procedures according to the guidelines given in the appropriate Service Manual.

WARNING

The gasoline in the fuel supply line downstream of the fuel pump is under high pressure (49 psi [338 kPa]). To avoid an uncontrolled discharge or spray of gasoline, always purge the system of high pressure gas before attaching fuel pressure gauge. Gasoline is extremely flammable and highly explosive. Inadequate safety precautions could result in death or serious injury.

1. Purge the fuel supply line of high pressure gasoline.
 - a. Disconnect the 4-place fuel pump connector [86]. Connector is on the left side, above the rear cylinder spark plug.
 - b. With the motorcycle in neutral, start the engine and allow vehicle to run.
 - c. When the engine stalls, press the starter button for 3 seconds to remove any remaining fuel from fuel line.

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.

2. Disconnect negative battery cable.

WARNING

An open flame or spark may cause a fuel tank explosion if all traces of fuel are not purged from the tank. Use extreme caution when servicing fuel tanks. Gasoline is extremely flammable and highly explosive. Inadequate safety precautions could result in death or serious injury.

3. Drain fuel tank.
 - a. Using suitable external fuel pump, such as a Gas Caddy, pump fuel from tank and into suitable clean container.
 - b. See instructions for external fuel pump for correct use.

CAUTION

Use caution when removing the fuel tank. If the tank or tank cover should contact other chassis parts, the finish may be damaged.

NOTE

The original fuel tank mounting parts for 1999 S3 Models were recalled as part of recall campaign 0814. If recall parts are not installed on vehicle being serviced, perform recall 0814 (Service Bulletin B-021A) while performing this service.

4. Cut cable tie that secures fuel pump wiring harness to main harness under fuel tank.

X1 Models: Remove fuel tank cover, fuel tank and air scoops. See Sections 2 and 4 of service manual for procedure.

S3 Models: Remove fuel tank. See Section 4 of appropriate service manual for procedure.

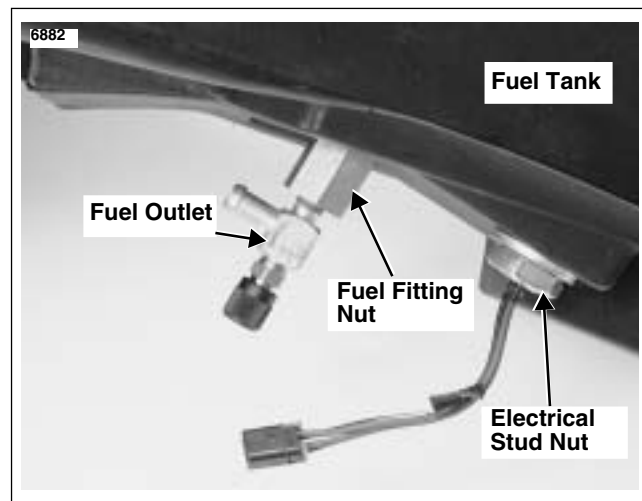


Figure 1. Fuel Outlet Fitting (original setup)

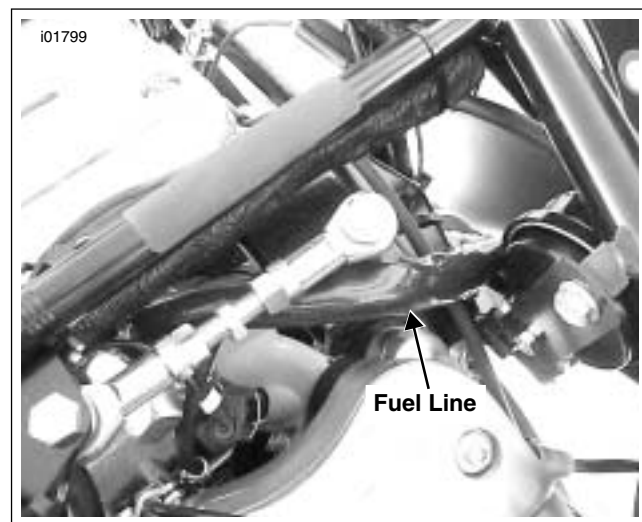


Figure 2. Fuel Line Routing

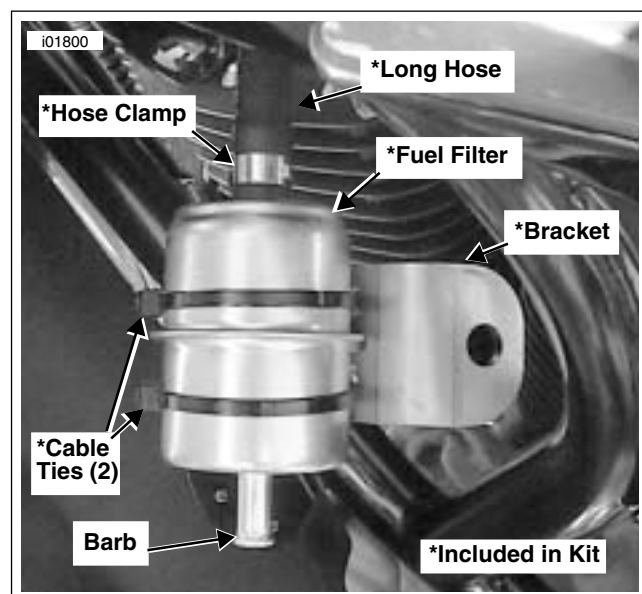


Figure 3. Filter Mounted to Bracket

⚠ WARNING

A small amount of gasoline will drain from the fuel line when the filter is removed. Thoroughly wipe up any spilled fuel immediately. Dispose of rags in a suitable manner. Gasoline is extremely flammable and highly explosive. Inadequate safety precautions could result in death or serious injury.

- Remove fuel filter and fuel lines to and from filter. Discard filter and fuel lines, but retain sheathing. See Section 4 of appropriate service manual for procedure.

CAUTION

Be sure to push the fuel line all the way onto the fuel rail connection. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

NOTE

Fuel line will slide on easier if the end is lubricated. The approved lubricants for this fuel line are WD40 and P80.

- See Figure 2. Attach long section of fuel line, provided in kit, to the fuel rail with hose clamp. Tighten hose clamp. Slide the sheathing saved from removal over the hose and route hose as shown.
- See Figure 4. Remove the rear cylinder engine support bracket bolt and washer. Discard washer.
- See Figure 4. Insert bolt through fuel filter bracket as shown. Apply LOCTITE THREADLOCKER 262 (red) to the three bottom threads of the bolt.

NOTE

See Figure 8 for photograph of Japanese S3 Fuel Filter Bracket. The bracket is different to allow clearance around the cooling fan.

- See Figure 4. Install fuel filter bracket to cylinder head with bolt. Tighten bolt to 30-33 ft-lbs (41-45 Nm).
- See Figure 3. Using two cable ties provided in kit, attach the fuel filter to the bracket with the filter's ridge on the middle slot of the bracket. Verify that the flow arrow on the filter is pointing towards the front of the vehicle (in direction of fuel flow).

CAUTION

Be sure to push the fuel line all the way onto the fuel fitting. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

NOTE

Fuel line will slide on easier if the end is lubricated. The approved lubricants for this fuel line are WD40 and P80.

- Slide a hose clamp on the other end of the long hose and attach hose to the discharge fitting of the filter and tighten the clamp.

CAUTION

Make sure fuel hoses are not contacting any sharp engine, frame or harness component or hose could become damaged.

- Inspect fuel hoses to make sure they are not contacting any sharp engine, frame or harness component.

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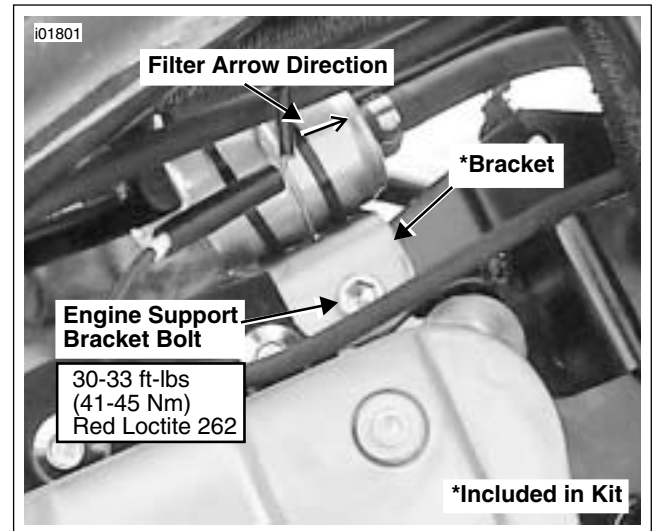


Figure 4. Clamp Mounting

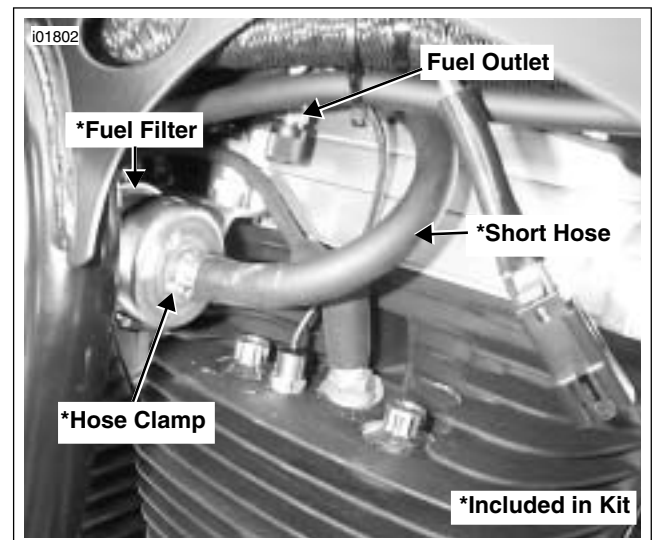


Figure 5. Fuel Tank to Filter

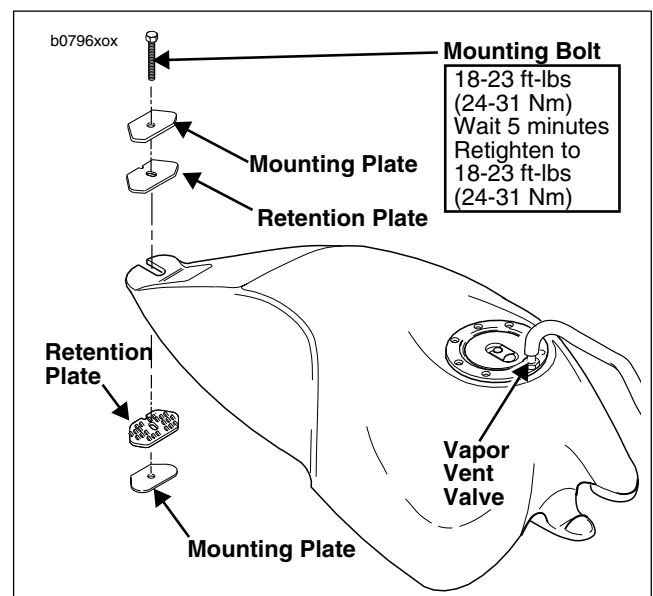


Figure 6. S3 Fuel Tank Mounting

13. See Figure 1. Remove nut and washer from electrical outlet stud on bottom of fuel tank. Discard washer.
14. Install **new** thread sealing washer provided in kit onto electrical outlet stud, pushing it all the way up and then giving it a half to full turn to ensure rubber sealing flaps on washer engage threads.
15. Apply two drops of LOCTITE THREADLOCKER 243 (Blue) to threads on electrical fitting nut.
16. Install nut onto electrical outlet stud.

CAUTION

Do not overtighten fuel pump nuts or seal damage will result.

17. Tighten nut to 68-75 **in-lbs** (7.7-8.5 Nm).
18. Verify that the fuel fitting nut is tightened to 63-67 **in-lbs** (7-8 Nm).

CAUTION

Do not rotate fuel fitting by rotating the fitting nut or damage to the fuel pump connection may occur.

19. See Figure 1. Hold fuel fitting nut and rotate the fuel outlet into the fuel fitting nut until the fitting points toward the rear of the motorcycle (opposite of the way shown).

CAUTION

Be sure to push the fuel line all the way onto the fuel fitting. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

NOTE

Fuel line will slide on easier if the end is lubricated. The approved lubricants for this fuel line are WD40 and P80.

20. See Figure 5. Attach short section of fuel line provided in kit to fuel tank fuel outlet fitting with hose clamp. Tighten clamp.
21. Position fuel tank on frame.

CAUTION

Be sure to push the fuel line all the way onto the fuel fitting. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

NOTE

Fuel line will slide on easier if the end is lubricated. The approved lubricants for this fuel line are WD40 and P80.

22. Slide hose clamp on other end of short fuel line and attach hose to the fuel filter inlet fitting. Tighten clamp.

CAUTION

Make sure fuel hoses are not contacting any sharp engine, frame or harness component or hose could become damaged.

23. Inspect fuel hoses to make sure they are not contacting any sharp engine, frame or harness component.
24. **X1 Models:** Install fuel tank, cover and air scoops to motorcycle. See Sections 2 and 4 of appropriate Service Manual for procedure.

NOTE

Refer to recall 0814 (Service Bulletin B-021A) for instructions on installing fuel tank if performing fuel tank retention recall procedure in conjunction with this procedure.

S3 Models: Install fuel tank to motorcycle. See Figures 6 and 7 and Section 4 of 1999/2000 Service Manual for procedure.

25. Reconnect fuel pump connector [86]. Secure fuel pump wires to main wiring harness with thick cable tie provided in kit. Do NOT cable tie around vent line. See Section 4 of appropriate Service Manual for procedure.

WARNING

After installing seat, pull upward on front of seat to be sure it is locked in position. If seat is loose, it could shift during vehicle operation resulting in loss of control of vehicle and death or serious injury.

26. Install seat and reconnect the negative battery cable.
27. Fill fuel tank. Turn ignition ON and listen for fuel pump activation. Inspect for leaks.
28. Start vehicle and verify that it idles well and that there are no fuel leaks.
29. Test ride motorcycle. Inspect for leaks and hose chafing upon completion of test ride.

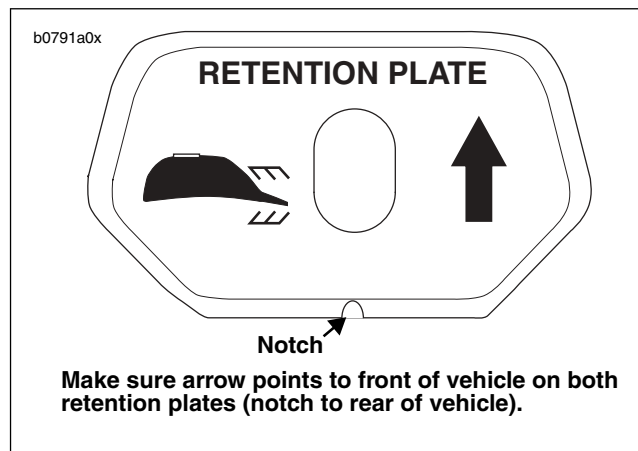


Figure 7. Retention Plate Decals (S3 Models)

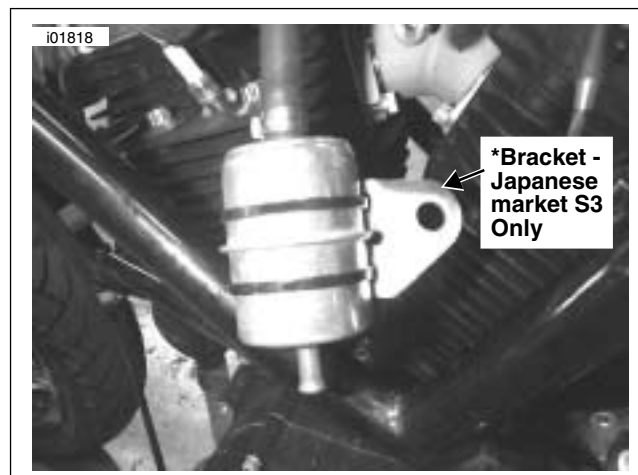


Figure 8. Japanese-market S3 Fuel Filter Bracket

CREDIT PROCEDURE - VEHICLE REPAIR

For each vehicle serviced, place a "C" in the letter box on the Buell Dealer Service Card. **Destroy and discard the original fuel filter and fuel lines.** 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 1.3 hours for labor (X1 Models) or 1.2 hour for labor (S3 Models). Both times include 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 fuel filters from your inventory.

To receive credit, complete a regular warranty claim referencing Service Bulletin B-031 in the "Description of Repair" section. Fill in the rest of the claim as follows.

Table 1. Credit for Parts

Claim Type	BDS
Quantity	See Note Below
Event 1, Problem Part No.	62143-99Y
Part Description	Fuel Filter
Customer Concern Code	9205
Condition Code	9111

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 fuel filter is identical to the 2000 Model Year Fuel Filter. The 1999 Fuel Filter has been superseded by the 2000 Model Year Filter. Order the 2000 Model Year Fuel Filter (Part No. 62143-00Y) to restock your inventory.



BUELL DISTRIBUTION CORPORATION
P.O. BOX 594, MILWAUKEE, WI U.S.A 53201
PARTS & ACCESSORY ORDER

B-031

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TYPE CODE	ORDER TYPE	VEHICLE IDENTIFICATION NUMBER
R	REGULAR	
P	POLICE	
D	DOWN VEHICLE	
W	WARRANTY	

DEALER ORDER	
ORDER DATE	
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WARRANTY CLAIM NO.	

FOR OFFICE USE ONLY	
ACCT.	111-632.0
FRT. ACCT.	111-632.0

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**PLEASE USE PART NUMBERS
DO NOT USE FOR
CORRESPONDENCE**

F-1040

ALL ORDERS SUBJECT TO ACCEPTANCE AT MILWAUKEE, WI 53201

All goods covered by this order, including goods backordered, will be billed at prices current at the time of shipment. Goods are purchased for resale and delivery is made to purchaser F.O.B. factory, Milwaukee, Wisconsin or other point of origin. If accepted, this order as accepted shall be subject to availability of goods to seller for delivery to purchaser. Any delay in shipment shall not relieve purchaser of responsibility for his accepted order and seller shall not be liable for any loss or damage due to delay in shipment or failure to deliver. Any request for cancellation of this order or any part thereof must be received by seller prior to the date of shipment, and in case of reconsignment or return of goods to seller, purchaser shall pay the entire cost connected therewith, plus zero, ten or twenty-five percent of selling price, as determined by Company policy from time to time, as liquidated damages for loss of sale. Purchaser will be responsible for collection and payment of all Federal, State and local taxes that apply on the retail sales.

**PLEASE USE PART NUMBERS
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