

FUEL FILTER BRACKET RETROFIT (JAPAN ONLY)

GENERAL

It has come to the attention of Buell Distribution Corporation that a certain number of 2000 Model X1 and S3/T model Buell motorcycles were shipped to the Japanese market with the incorrect fuel filter bracket. This bracket must be replaced with the correct bracket before the motorcycle is sold. Failure to replace the fuel filter bracket will affect the clearance between the fuel hose and the cooling fan and will affect the safe operation of the motorcycle. The purpose of this service bulletin is to provide service instructions and to provide credit information on this procedure.

Motorcycles built after August 16, 1999 will already have the new fuel filter bracket installed. See below for VIN breakdown of vehicles that are not equipped with the new fuel filter bracket from the factory:

- **X1 World:** prior to VIN 4MZSS11J5Y3200619
- **S3/S3T World:** prior to VIN 4MZFS11J2Y3100009

VEHICLES INVOLVED

Select 2000 Model Year X1 and S3/S3T Models shipped to Harley-Davidson Japan.

DEALER ACTION

Replace the fuel filter bracket on all affected 2000 Model Year X1 and S3/S3T Models.

The following kits have been developed for replacement of the fuel filter bracket on the 1999-2000 model year Buell motorcycles indicated.

- **X1 Models:** Fuel Filter Bracket Upgrade Kit (Part No. 91436-99Y).
- **S3/S3T Models:** Fuel Filter Bracket Upgrade Kit (Part No. 91445-99Y).

NOTE:

The instructions that follow are the same as those provided in the instruction sheets (-J01748 and -J01784) that came with the kits. This bulletin is provided to address credit procedures for replacement of the fuel filter brackets.

Vehicles beyond the warranty period will not require a prior authorization. See CREDIT PROCEDURES.

This X1 Fuel Filter Upgrade kit (Part No. 91436-99Y) includes the following:

- (1) Bracket, Fuel Filter Support
- (4) Hose Clamps
- (2) Wire Ties
- (1) Fuel Filter

This S3/S3T Fuel Filter Upgrade kit (Part No. 91445-99Y) includes the following:

- (1) Bracket, Fuel Filter Support
- (4) Hose Clamps
- (2) Wire Ties
- (1) Fuel Filter

KIT INSTALLATION

Lightning X1 Models

NOTE

Perform the following procedures according to the guidelines given in the service manual for the model being serviced.

WARNING

To prevent accidental start-up of vehicle and possible personal injury, always disconnect the negative battery cable when working on a motorcycle. 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 from battery.

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 removing fuel tank. Gasoline is extremely flammable and highly explosive. Inadequate safety precautions could result in death or serious injury.

CAUTION

Use caution when removing fuel tank to avoid cosmetic damage to fuel tank cover.

2. Purge the fuel line and remove the fuel tank. See appropriate service manual, Section 4 for procedures.

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									

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.

3. Remove fuel filter and fuel lines. Discard filter and fuel lines, but retain sheathing.

CAUTION

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

4. See Figure 1. Rotate the fuel outlet approximately 180° by tightening the fuel outlet into the fuel fitting nut, while securely holding the nut. The fitting should point 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 rail connection. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

5. See Figure 2. Cut a piece of bulk fuel line (Part No. 63521-95) to 10-1/2 in. (266.7 mm). Attach fuel line, with a hose clamp, to the fuel rail and tighten clamp. Slide the sheathing onto the hose and route hose as shown.
6. See Figure 3. Using the wire ties, 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 front of vehicle.

CAUTION

- **Ensure that the hose is not contacting any sharp engine, frame or harness component. If it does the hose could be damaged.**
 - **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.**
7. Slide a hose clamp on the 10-1/2 in. (266.7 mm) hose, attach the discharge fitting of the filter onto the hose and tighten the clamp. Ensure that it is not contacting any sharp engine, frame or harness components.
 8. See Figure 4. Remove the rear cylinder head bolt and washer. Discard washer.
 9. Install the fuel filter and bracket onto the bolt. Apply LOCTITE THREADLOCKER 262 (red) to the three bottom threads of the bolt.
 10. Reinstall the bolt into the cylinder head and torque to 30-33 ft-lbs (40.7-44.7 Nm).

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.

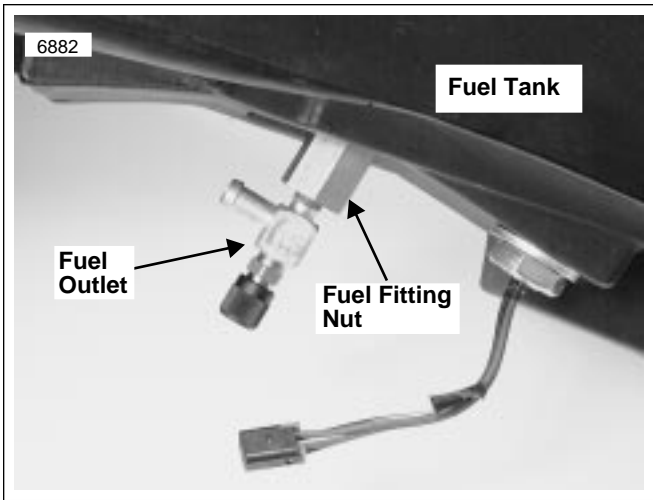


Figure 1. Fuel Outlet Fitting

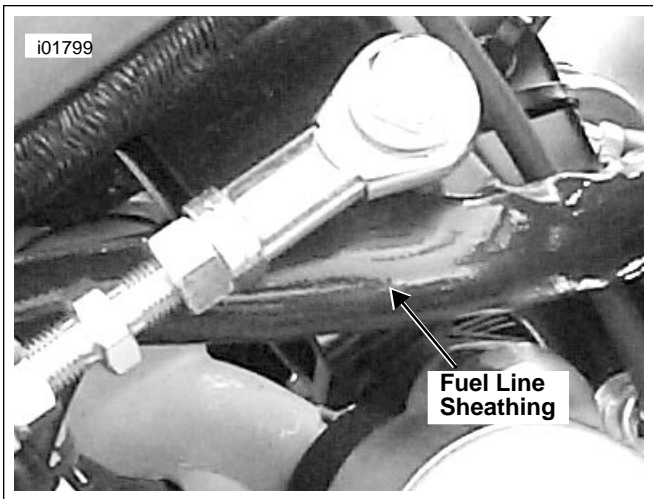


Figure 2. Fuel Line Routing

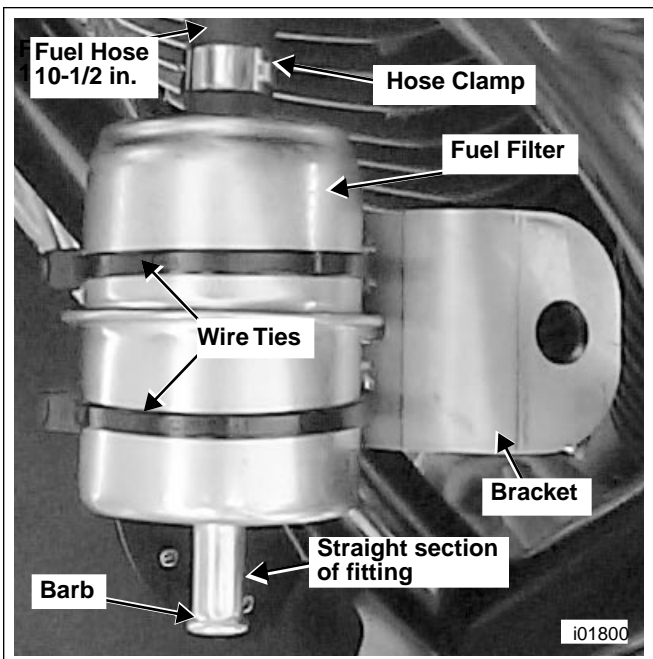


Figure 3. Filter Mounted to Bracket (X1 Shown)

11. See Figure 5. Cut a piece of bulk fuel line (Part No. 63521-95) to 7 in. (177.8 mm). Attach the line to the fuel tank fuel outlet fitting with a hose clamp and tighten clamp.
12. Slide a hose clamp onto the 7 in. (177.8 mm) hose, attach the hose to the filter's inlet fitting and tighten clamp. Route hose as shown in Figure 5.
13. Install fuel tank. See Section 4 of appropriate service manual for procedure.
14. Reconnect the fuel pump. 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.

15. Install seat and reconnect the negative battery cable.

CAUTION

Ensure that the hose is not contacting any sharp engine, frame or harness component. If it does, the hose could be damaged.

16. Check that the 7 in. (177.8 mm) hose is not contacting any sharp engine, frame or harness components.
17. Fill fuel tank. Turn ignition ON and listen for fuel pump activation.
18. Start vehicle and verify that it idles well and that there are no fuel leaks.

Thunderbolt S3/S3T Models

⚠ WARNING

To prevent accidental startup of the motorcycle and possible personal injury, always disconnect the negative battery cable when working on a motorcycle. 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.

⚠ 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 gasoline before removing fuel tank. Gasoline is extremely flammable and highly explosive. Inadequate safety precautions could result in death or serious injury.

2. See the applicable Service Manual. Purge the fuel line.
3. Remove the seat.

NOTE

The original fuel tank mounting parts for the S3 models were recalled (campaign number 0814). If the new parts are not on your vehicle, perform the recall together with this upgrade. Per the recall, the procedure for removing and installing the fuel tank has been modified. Refer to the procedures in the recall bulletin instead of those in the Service Manual.

B-026INT

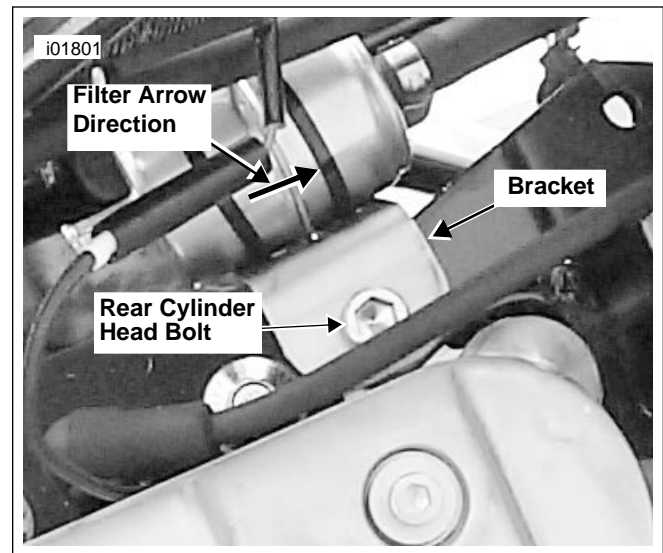


Figure 4. Clamp Mounting

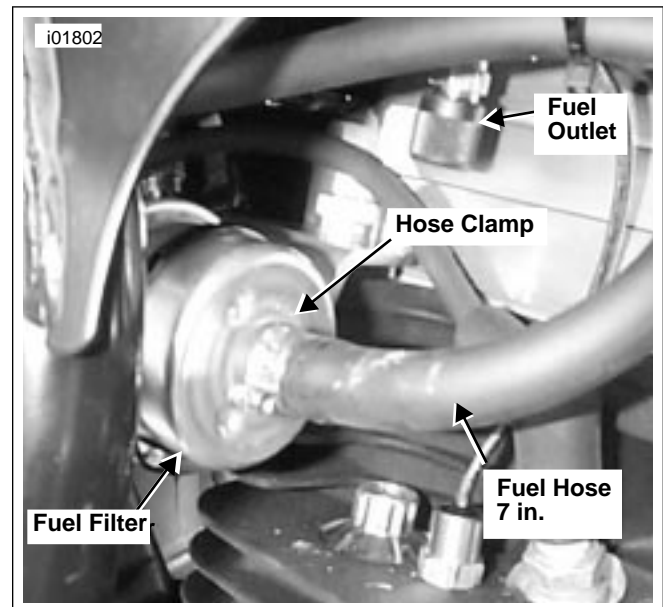


Figure 5. Fuel Tank to Filter

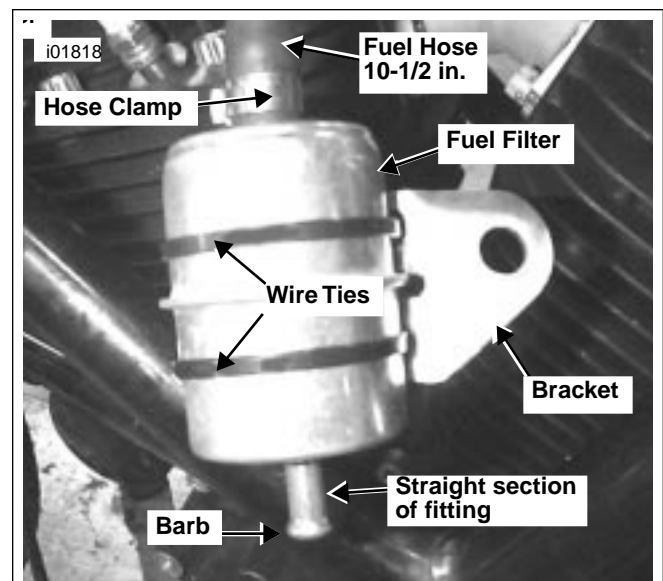


Figure 6. Filter Mounted to Bracket (S3 Shown)

4. Remove bolt, top mounting plate and top retention plate from fuel tank rear mount. Lift tank and remove lower retention plate and lower mounting plate.
5. Disconnect hose from vapor vent valve.

WARNING

A small amount of gasoline will drain from the fuel supply fitting and fuel line when 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.

6. Prop fuel tank against frame to gain access to fuel supply fitting. Wrap shop towel around the fuel supply fitting and remove fuel line.

CAUTION

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

7. Remove fuel tank from frame.

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.

8. See applicable Service Manual and remove the fuel filter and fuel lines. Discard filter and fuel lines but retain sheathing.

CAUTION

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

9. See Figure 1. Rotate the fuel outlet approximately 180° by tightening the fuel outlet into the fuel fitting nut, while securely holding the nut. The fitting should point 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 rail connection. Position hose clamp on straight section of fitting, clear of barb, and properly tighten the clamp.

10. See Figure 2. Cut a piece of bulk fuel line (Part No. 63521-95) to 10-1/2 in. (266.7 mm). Attach fuel line, with a hose clamp, to the fuel rail and tighten clamp. Slide the sheathing onto the hose and route hose as shown.
11. See Figure 6. Using the wire ties, 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 front of vehicle.

CAUTION

- **Ensure that the hose is not contacting any sharp engine, frame or harness component. If it does the hose could be damaged.**
 - **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.**
12. Slide a hose clamp on the 10-1/2 in. (266.7 mm) hose, attach the discharge fitting of the filter onto the hose and tighten the clamp. Ensure that it is not contacting any sharp engine, frame or harness components.
 13. See Figure 4. Remove the rear cylinder head bolt and washer. Discard washer.
 14. Install the fuel filter bracket onto the bolt. Apply LOCTITE THREADLOCKER 262 (red) to the three bottom threads of the bolt.
 15. Reinstall the bolt into the cylinder head and torque to 30-33 ft-lbs (40.7-44.7 Nm).

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.

16. See Figure 5. Cut a piece of bulk fuel line (Part No. 63521-95) to 7 in. (177.8 mm). Attach the line to the fuel tank fuel outlet fitting with a hose clamp and tighten clamp.
17. Prop fuel tank against frame. Slide a hose clamp onto the 7 in. (177.8 mm) hose, attach the hose to the filter's inlet fitting and tighten clamp. Route hose as shown in Figure 5.
18. Install fuel tank. See appropriate service manual or recall #0814 for procedure.
19. Reconnect the fuel pump. See appropriate service manual, Section 4 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

20. Install seat and reconnect the negative battery cable.

CAUTION

Ensure that the hose is not contacting any sharp engine, frame or harness component. If it does the hose could be damaged.

21. Check that the 7 in. (177.8 mm) hose is not contacting any sharp engine, frame or harness components.
22. Fill fuel tank. Turn ignition ON and listen for fuel pump activation.
23. Start the vehicle and verify that it idles well and that there are no fuel leaks.

CREDIT PROCEDURES

After servicing each vehicle, file a warranty claim referencing Service Bulletin B-026INT in the "Description of Repair" or "Comments" section of the claim. Fill in the rest of the claim as follows:

Claim Type	BMC, BGW*	
Event 1	Qty	Problem Part No.
	0	62343-99Y
Event 1, Additional (Replacement)	Qty	Problem Part No.
	1	91445-99Y (S3)
	1	91436-99Y (X1)
Part Description	Fuel Filter Upgrade Kit	
Primary Labor Code	3517	
Time: (includes 0.2 hr administrative time)	1.0 (X1 Models) 0.9 (S3/S3T Models)	
Customer Concern Code	9203	
Condition Code	9102	

*Use BMC if vehicle is still within factory warranty period; use BGW if vehicle is beyond factory warranty period. Vehicles beyond factory warranty period do not require prior authorization for this product program.

NOTE

If additional parts such as cable straps are required, list them under Event 1, Additional Parts.

After processing of the claim form, you will be credited for the labor. No credit will be issued for parts as they were sent no charge.