

Table of Contents

REF: Engine Mechanicals - Sub-05A	1
Converting to Vent Line Extensions	1
<i>Using Spark Plug Boot Connectors</i>	1
<i>Vent Line Routing Pics</i>	2

[Go To Technical Menu](#)

REF: Engine Mechanicals - Sub-05A

Converting to Vent Line Extensions

Excerpts of posts by XLF member 1200C ¹⁾

Using Spark Plug Boot Connectors

- Parts:
Available at most auto parts stores.
1. (2) - spark plug boots (silicone)
 2. (2) - 3/8" plastic hose splices/connectors
 3. (1) - 3/8" plastic hose "T"
 4. (1) - 18" 3/8" rubber tube (apx)
 5. (1) - small cheap gas filter
 6. (2) - small hose clamps

Cut the spark plug boots off flush where they make a 90° turn.

These will then fit over the hollow breather bolts that hold the air cleaner backing plate on and will be flush with the backing plate.

You can modify the stock air filter by cutting off the two protrusions that go over these two bolts. (bosses that let the oil into air filter). You can fill the holes with JB weld.

Several 1" holes were drilled in backing plate below for better air flow.

Connect the spark plug boots to two small pieces of the hose with the plastic hose splices and connect these together with the "T".

Drill a hole in the air cleaner backing plate bottom and connect another length of hose to the bottom of the "T" and run out of this hole.

Some like to install a small gas filter inline using the two hose clamps (piece of mind in deterring dust or dirt entering from backflow).

However, there is no measureable backflow of air into engine unless the breather valve is not functioning properly.

Then run more hose down to about two inches below frame.

All blowby oil now goes to ground and not into air cleaner.

The spark plug boots should fit snug.

Route the hose with as few bends as needed and the filter out of the way.

Note:

Heat may soften the rubber over time and the rubber boots will have to be replaced to keep oil from leaking around them.

Click on any pic to enlarge: ²⁾

Hose splices in the spark plug boots.	Holes drilled in backing plate (not necessary).	Plastic hose "T" to splice both ends together.
		
All assembled.	Filter for the hose end (not necessary).	
		
Inlet holes in A/C plugged.		

Vent Line Routing Pics

Stainless breather hoses routed to the ground. ³⁾



Go To Technical Menu

1)

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-intake-and-exhaust/sportster-motorcycle-air-intake-carburetor-efi-fuel-and-exhaust/28874-stock-air-cleaner-box-modifications?t=47848>

2)

photos by 1200C of the XLFORUM

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-intake-and-exhaust/sportster-motorcycle-air-intake-carburetor-efi-fuel-and-exhaust/28874-stock-air-cleaner-box-modifications?t=47848>

3)

photo by renpia of the XLFORUM

<https://www.xlforum.net/forum/sportster-motorcycle-forum/sportster-motorcycle-general-discussion-and-problems/33424-i-am-quitting-harley-s-forever/page3#post715969>

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