

TSIB 13-01, rev A		November 4, 2013
TO:	Properties with New Flyer ISE Gas/Electric Hybrid Buses	
TITLE:	ISE Air Compressor Intake Filter Relocation	
APPLICABILITY:	All New Flyer ISE Gas/Electric Hybrid Buses	

It has come to the attention of New Flyer Customer Service that the ISE air compressor intake filter can be difficult to access on the ISE gas/electric hybrid buses. As a result, Properties may not be maintaining the air compressor intake filter as per the New Flyer preventative maintenance requirements. As a product improvement to provide easier access to the air filter, New Flyer is offering the following air compressor intake filter relocation procedure for those Properties that wish to complete this modification at their own expense.

It is New Flyer's expectation that all customers maintain the air compressor intake filter in accordance with the New Flyer Service Manual.

ISE Air Compressor Intake Filter Relocation:

1. Turn the main battery disconnect switch to the "OFF" position.

⚠ WARNING: **ALWAYS discharge the Ultra Capacitors before performing maintenance on this vehicle. Refer to Section 5 of the service manual under 2.17 *Discharging the Ultra Capacitors* for the discharge procedure.**

2. Open the rear curbside access door and the rear engine compartment door.
3. Locate the air compressor which is located under the inverters on the curbside of the central engine compartment divider.
4. Remove the air filter housing attached to the intake of the compressor. The intake is located on the forward face of the compressor. Figure 1.

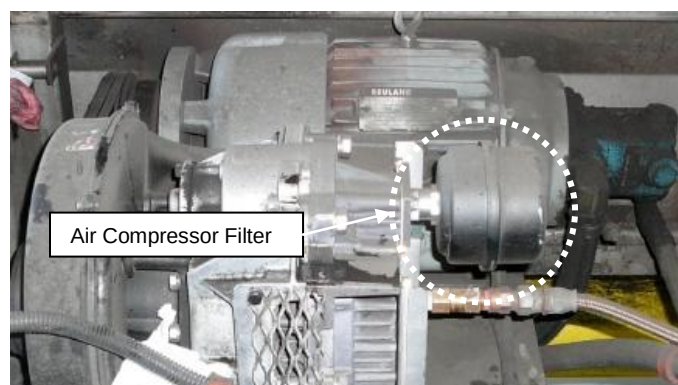


Figure 1: Air Compressor Intake Filter

5. Attach the mounting bracket NF P/N 494002 , hose coupler NF P/N 494237, 45 degree elbow NF P/N 5959606 and bushing NF P/N 205802 to the air filter housing. Figure 1. Use pipe thread sealant or Teflon tape on all NPT threaded connections. Ensure that the mounting bracket and air intake face downward at 6 o'clock. Figure 2.

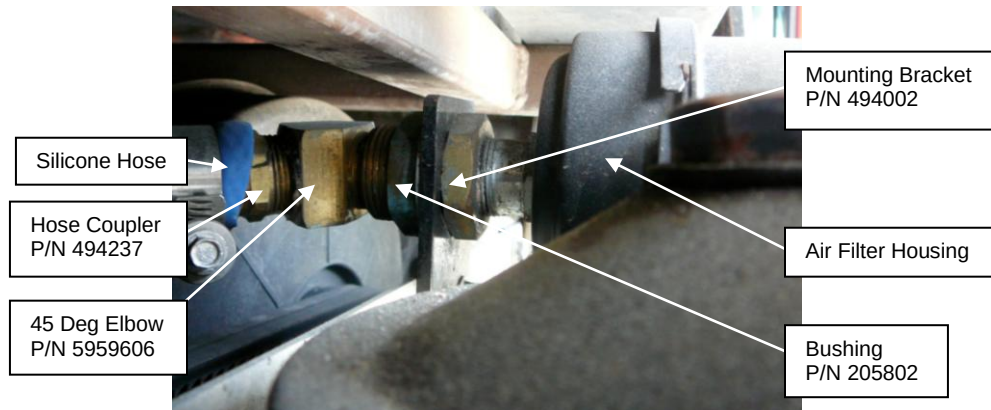


Figure 2: Brass Fittings & Bracket Attached to the Air Filter Housing.

6. Attach one end of the blue silicone hose NF P/N 023941 to the hose barb on the air filter housing using hose clamp NF P/N 274935. Figure 1. Torque hose clamp to 56-62 IN-LBS.
7. Drill two .25" Dia holes in the air compressor guard at the rear of the engine compartment using the mounting bracket as a template and mount the air compressor filter assembly using two bolts NF P/N 10B04016, four washers NF P/N 10W04000 and two nuts NF P/N 41N04000. Use Never Seize NF P/N 5928660 on fastener threads. Figure 3.

 **NOTE:** Ensure that the air intake opening faces downward to prevent water entry into the air filter.

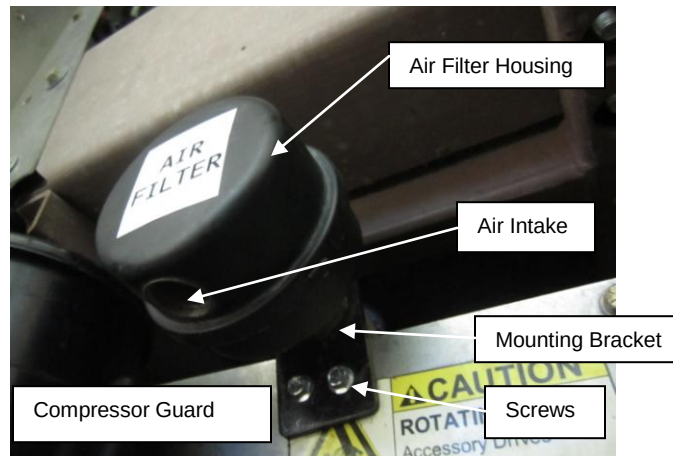


Figure 3: Air Filter Housing Mounted.

8. Route the blue silicone hose over the top of the compressor and towards the compressor intake. Figure 4.

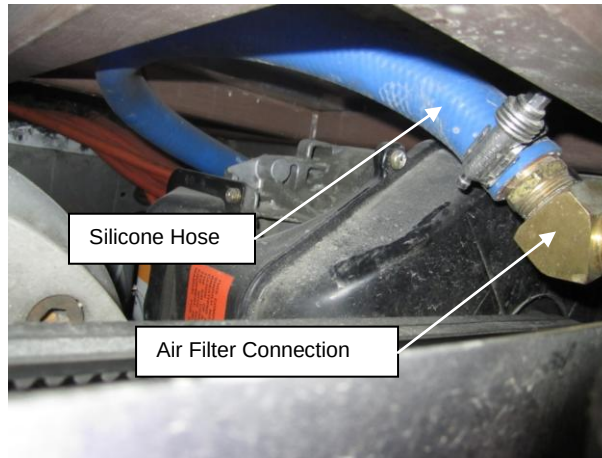


Figure 4: Silicone Hose Routing.

9. Install a 90 deg elbow NF P/N 494262 on the compressor intake. Figure 5. Use pipe thread sealant or Teflon tape on the NPT threads.
10. Attach the end of the hose to the 90 deg elbow using hose clamp NF P/N 274935. Figure 4. Torque hose clamp to 56-62 IN-LBS.

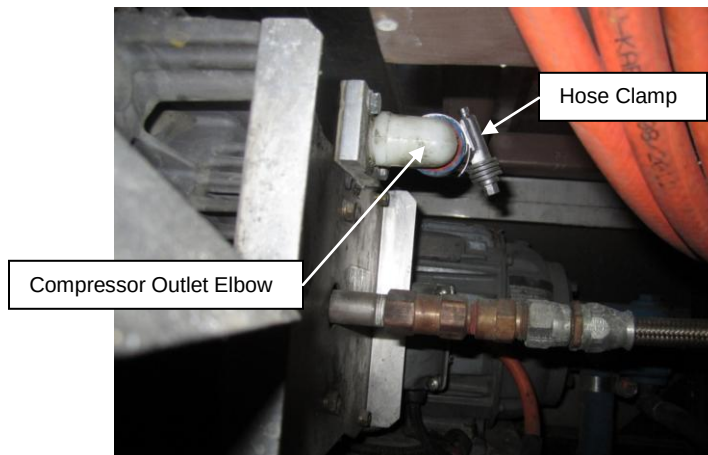


Figure 5: Hose Attached to Compressor Intake Elbow

11. Turn the main battery disconnect switch to the "ON" position.
12. Remove all tools and debris to return the coach to service condition.

Direct all inquiries regarding this bulletin to:

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