



Technical Service Bulletin

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HGJBB Crank but No Start or Hard Start Due to Leaking LP Hoses	

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Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- HGJBB Spec A-B (liquid propane models only)
- While the details within this document are specific to HGJBB, the principles apply to any LP-fueled generator set. Cummins always recommends following the engine manufacturer's guidelines for fuel hose maintenance.

Issue

Symptom:

- Crank but no start
- Hard/rough start

Root Cause:

- The liquid propane (LP) hoses carrying LP to and from the regulator can crack and deteriorate over time due to age and environmental stress. The cracked hoses pull in excess air, resulting in a lean mixture which can cause the symptoms stated above.

Verification/Confirmation

Not all LP models of HGJBB are affected by this issue. New hoses were implemented in production in late 2017, so generator sets built after October 2017 should not encounter this issue.

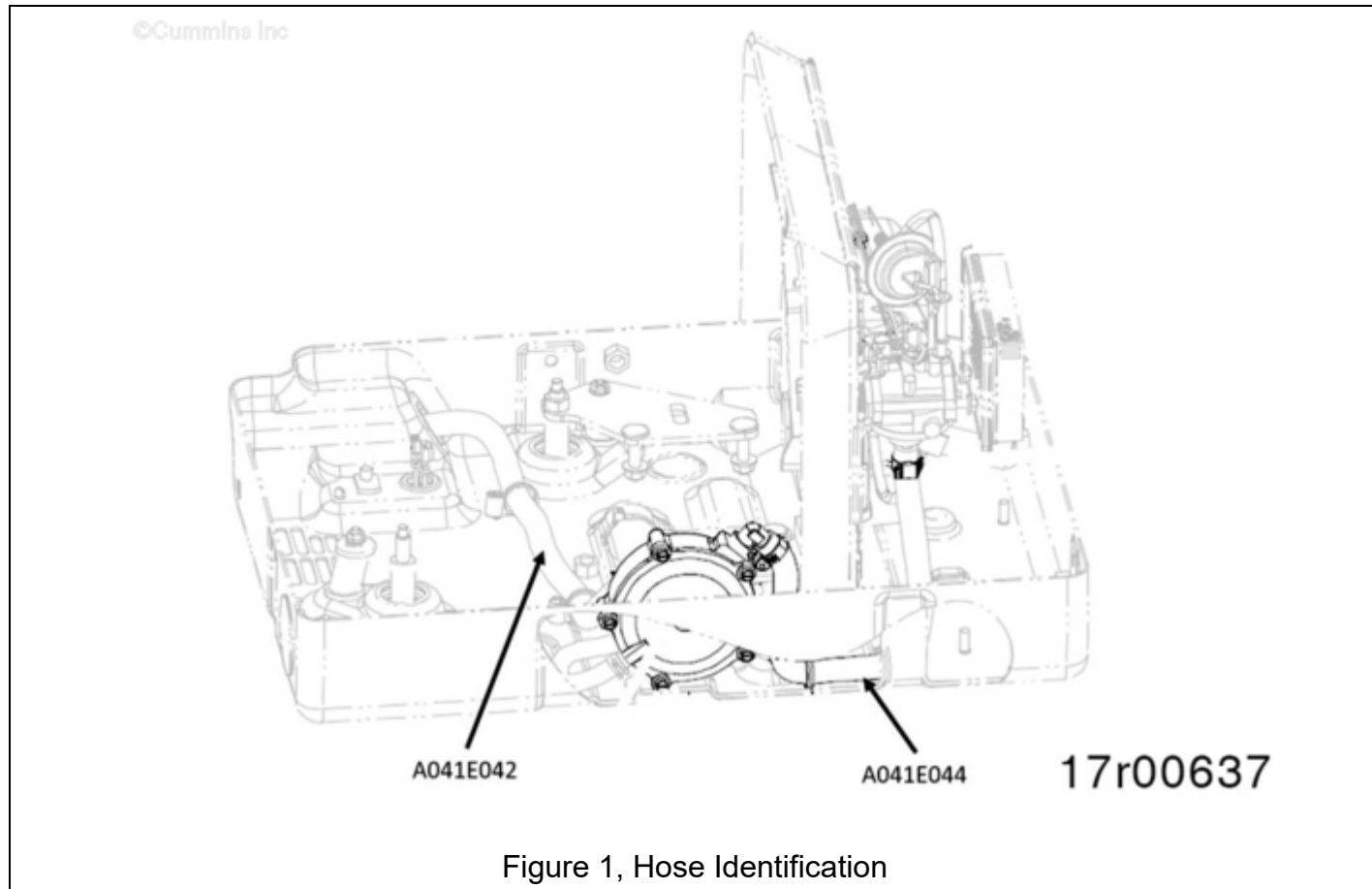
It is important to follow the troubleshooting in Service manual A031C173 when faced with a crank but no start or hard start situation. Following the troubleshooting steps will lead to the inspection of the fuel hoses.

Leaking LP hoses can be identified by the following procedure:

- Remove the hose from the generator set
- Spray soapy water over the entire hose
- Plug one end, and lightly pressurize the hose
- If a leak is present, the soapy water should produce bubbles

Resolution

If troubleshooting has led to the discovery of cracked or leaking hoses, order new fuel hoses (part number A041E042 and part number A041E044) through the aftermarket channel. If one hose is found to be cracked or leaking, then both hoses should be replaced. Refer to Figure 1 for part identification.



The new hoses should appear visibly different than the older hoses (which were susceptible to cracking). Refer to Figure 2 and Figure 3 for the differences in the fuel hoses appearance.



Figure 2, Old LP Fuel Hoses that are Susceptible to Cracking



Figure 3, New LP Fuel Hoses

Additionally, engine service manual A043L675 lists fuel hoses as a maintenance item and recommends they are replaced every 1,000 hours or annually. These guidelines should be followed to ensure optimal performance of the fuel hoses.

Service Parts Availability

Service parts are available. See Table 1 for part numbers.

Table 1, Service Parts	
Part Description	Part Number
Hose, Fuel (from fuel solenoid to fuel regulator)	A041E042
Hose, Fuel (from fuel regulator to mixer)	A041E044

Document History

Date	Details
2020-2-26	Module Created

Last Modified: 26-Feb-2020
