



**PROTERRA**



# TECHNICAL SERVICE BULLETIN

<b>ISSUE DATE:</b>	1-5-2021
<b>SERVICE BULLETIN SUBJECT:</b>	Wheel Well Box Piano Hinge Retrofit
<b>VINs or MODELS AFFECTED:</b>	Service Specified Buses
<b>COMPLETE BY:</b>	Next Service Opportunity
<b>SERVICE BULLETIN #:</b>	SC-21-1
<b>Labor Operation Code:</b>	ID44Z

**NOTICE! It is expected that this process will require 2 hours per bus. Please schedule appropriately to minimize vehicle downtime.**

## WHEEL WELL BOX PIANO HINGE RETROFIT

### Retrofit Description:

This procedure updates the wheel well box hinges to a more robust design.

## Tools/Parts Required

### Tools and Supplies Required:

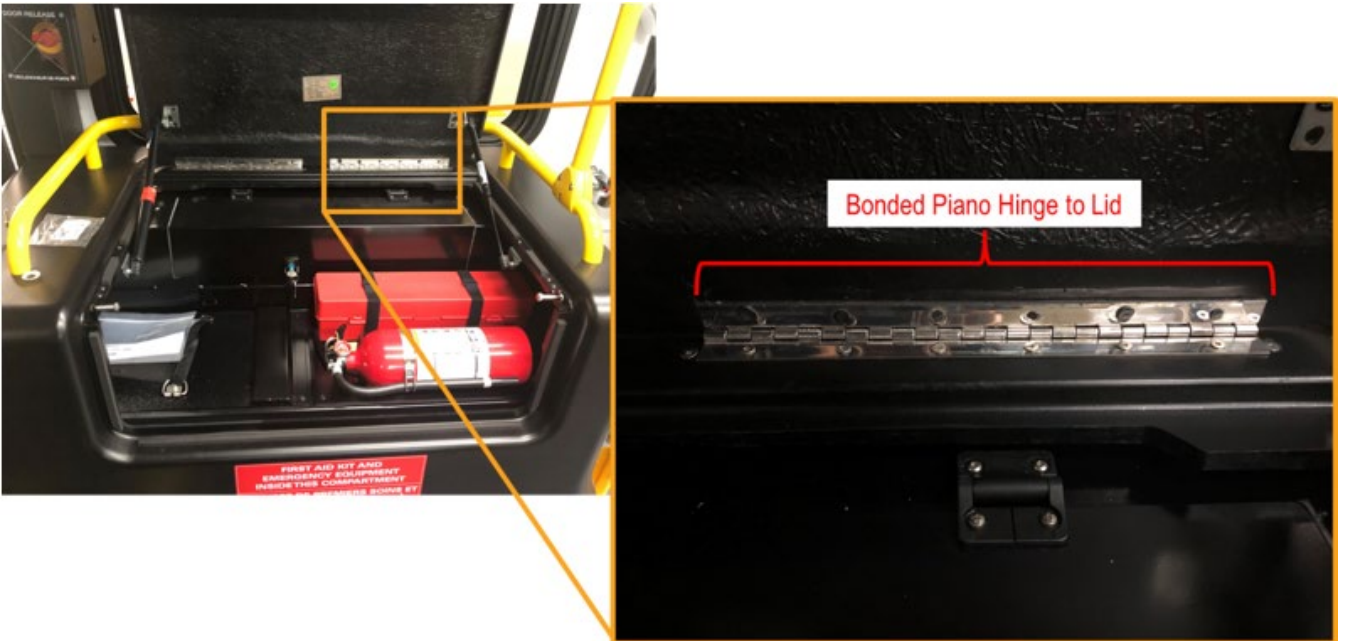
- Power Drill
- 1/8-Inch Drill Bit
- 17/64-Inch Drill Bit
- #2 Phillips Head Screwdriver
- 2mm Allen Driver
- 4mm Allen Driver
- M8 x 1.25 Tap

### Kit Parts Required:

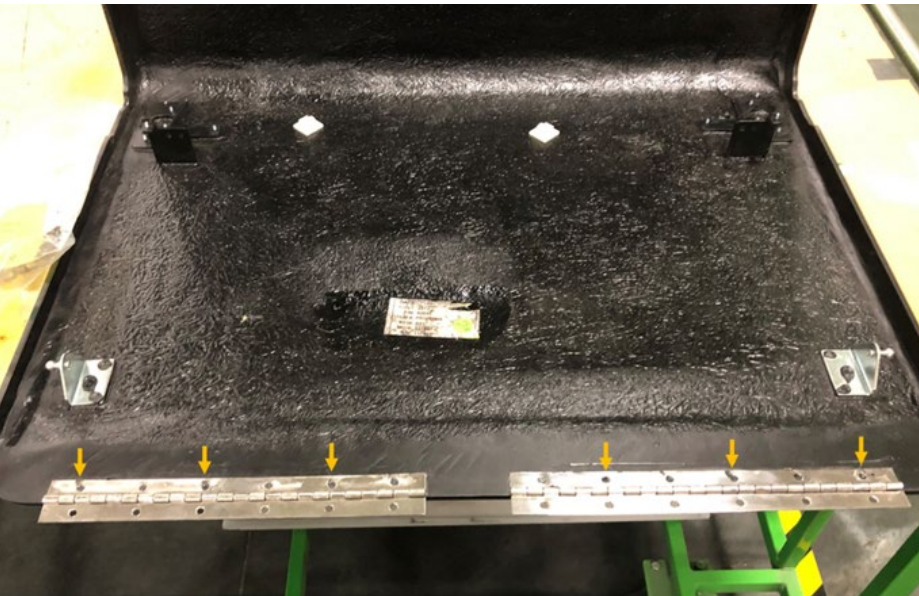
- 056167 RETROFIT KIT, WWB, HINGE, THRU-BOLT (Consisting of)
  - 125-1156 SCREW, FLAT, PHIL, #8-32, 1/2" ZINC 12 EA
  - 125-1157 INSERT, FLANGED, #8-32, 25/64" ZINC 12 EA

## Procedure:

1. Complete the Proterra approved Lockout/Tagout procedure to make the bus safe for work.
2. Using a 2mm Allen Driver, remove the screws that secure the piano hinge to the wheel well box shown in the following illustration. Both hinges and the lid should be removed. Save the removed screws to reinstall the lid.



3. Remove the lid from the bus and place it on a suitable working surface with the interior surface facing upward.
4. Using a Power Drill with a 1/8-Inch Drill Bit, drill a hole through the lid at each location shown by the arrows below.  
**Note:** Remove any adhesive from the piano hinge holes prior to drilling to ensure a flat surface.



5. Ensure that the is perpendicular the surface of the lid. Do not force the drill. Allow the bit to do the work.



6. Turn the lid over so that the exterior surface is up.
7. Using a Power Drill with a 17/64-Inch Drill Bit, enlarge the holes.
8. Using a Power Drill with a M8 x 1.25 Tap, carefully thread the holes to accept an insert. It is not necessary to tap the entire depth of the hole. The holes should be threaded deep enough to help start the installation of the Inserts (125-1157).

**Note:** Take care not to damage the exterior surface of the lid.



9. Using a 4mm Allen Driver, install an Insert (125-1157) into each of the tapped holes.



10. Turn the lid over so that the interior surface is up.

11. Using a #2 Phillips Screwdriver, install a Screw (125-1156) into each of the Inserts (125-1157).



12. The completed lid should appear as shown in the following photographs.



13. Using a 2mm Allen Driver, reinstall the lid.

14. Repeat the previous steps to add Inserts (125-1157) and Screws (125-1156) to the Curbside Wheel Well lid.

15. Remove the Lockout/Tagout devices and return the bus to service.