



Details

Related

Versions

Information

Title

FSC 22-13-2479 HV Interlock Loop Update

URL Name

FSC-22-13-2479-HV-Interlock-Loop-Update

Last Published Date

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<https://gillig.lightning.force.com/lightning/articles/Knowledge/FSC-22-13-2479-HV-Interlock-Loop-Update>
(<https://gillig.lightning.force.com/lightning/articles/Knowledge/FSC-22-13-2479-HV-Interlock-Loop-Update>)

Field Service Campaign

Issue Description (Rich Text)

Gen2.0 and Gen2.5 BEB PTC compartment HV battery cables may have insufficient support bracketry that could allow a potential HVIL error fault.

Symptoms (Rich Text)

Intermittent HVIL Fault Code 8175 with or without an HV exposure lamp indication.

Tools Required (Rich Text)

Torque Wrench capable of 2-20 ft-lbs
0.40" diameter bit and drill motor
basic hand tools, wrenches and sockets

Parts Required:

Was this article helpful?



0



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Categories (0)

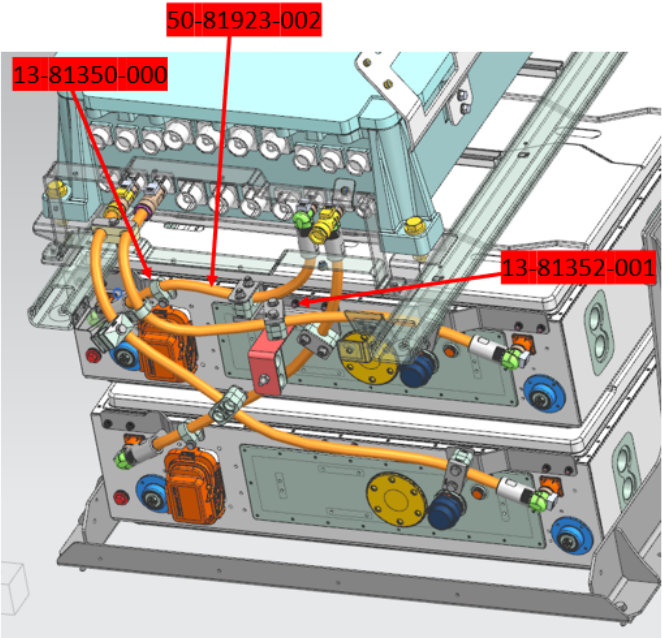
Expand All



Parts list is the same for Gen 2.0 and Gen 2.5

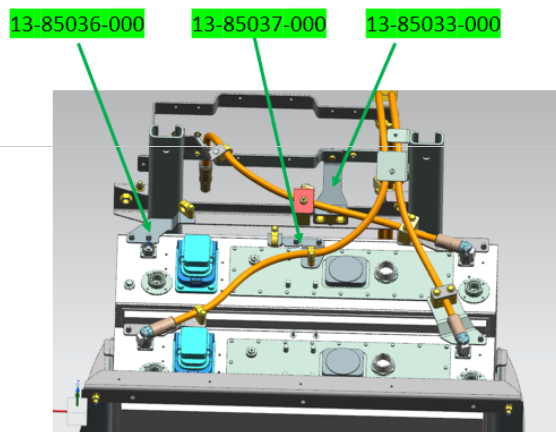
P/N	Description	QTY
13-85036-000	BRKT ASM	1
13-85037-000	BRKT ASM	1
13-85033-000	BRKT	1
50-82631-020	CABLE ASM	1
13-81319-001	Clamp	1
13-85044-000	Support plate	1
54-15400-442	Clamp	3
54-13108-084	Nut, Nylock M6X1	4
54-13112-082	Washer M6	4
54-11318-003	BOLT .3125-18	1
Diagnostic Steps 54-12600-007 N/A	WASHER .313	2
Repair Steps 54-12540-006	Nut .3125-18	1
Gen2.0 and Gen2.5 BEBs have very similar HV cable routing and the rework steps are almost identical.	Cable and	1
54-12600-006	Washer	1
For Gen2 54-12600-006	Washer .25	3

REMOVE/UNINSTALL HV CABLE AND SUPPORT BRACKETS



- Step1- Remove HV cable 50-81923-002
Step 2-Remove bracket#13-81350-000 and #50-81352-001

INSTALL NEW HV CABLES SUPPORT BRACKETS



Step 3- Install bracket #13-85036-000 and 13-85037-000 on Top PTC Battery as shown in image.

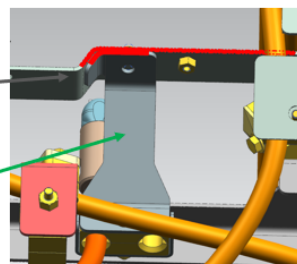
Use Hardware# 54-13108-084 , 54-13112-082 -Torque spec 5.2 ft-lb with Loctite

Step 4- Install brackets #13-85033-000 on PTC RACK Bracket 13-81379-001 (already installed on bus). This step requires match drilling on bracket 13-81379-001. Flush the faces of bracket #13-85033-000 and Bracket 13-81379-001 as shown in image below and drill .40" diameter hole in bracket 13-81379-001.

Use hardware - BOLT#54-11318-003, WASHER #54-12600-007 and nut #54-12540-006. Torque spec 15 ft-lbs

13-81379-001. This bracket is already installed on bus

13-85033-000



INSTALL CABLES AND CLAMPS GEN2.0

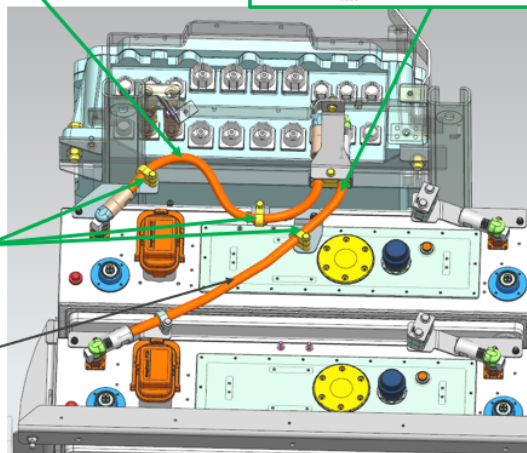
Step 5- Install HV cables 50-81923-000 as shown in Image. Note the orientation of clamps in below image. Ensure smooth bends adjust cable between clamps as needed

New cable 50-82631-020

Clamp #13-81319-001
Support plate #13-85044-000
Bolt #54-11316-007
Washer #54-12600-006
Torque 8 ft-lbs with Loctite

Clamp #54-15400-442
Bolt #54-11316-006
Washer #54-12600-006
Torque 2 ft-lbs with Loctite

Cable #50-81923-000 already installed on bus. Just change clamps on this cables as per image



For Gen2.5

REMOVE/UNINSTALL HV CABLE AND SUPPORT BRACKETS



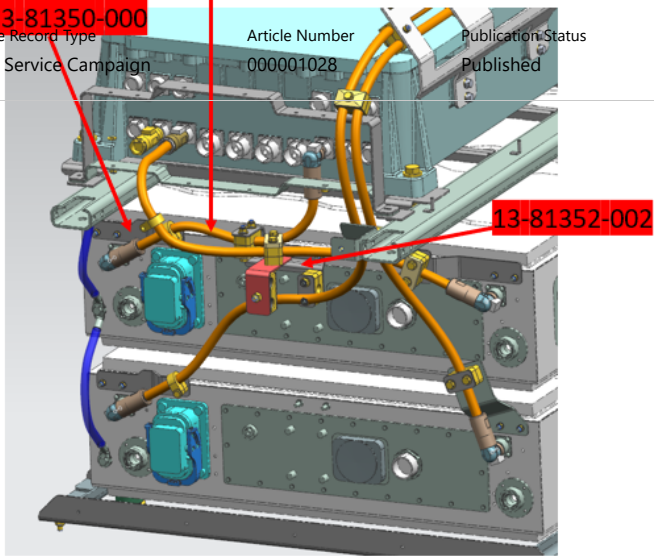
Knowledge

FSC 22-13-2979 HV Interlock Loop Update

Article Number	13-81350-000	Publication Status
Article Record Type	Field Service Campaign	Published
Article Number	000001028	Published

Step1- Remove HV cable 50-81923-002

Step 2- Remove bracket#13-81350-000 and #50-81352-002



INSTALL NEW SUPPORT BRACKETS

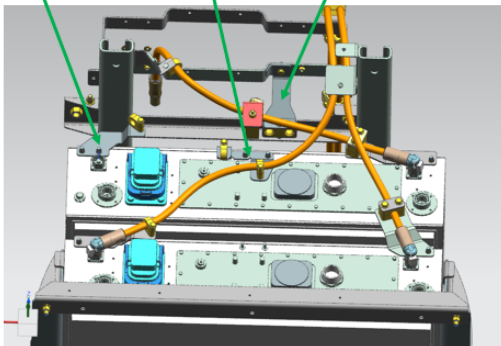
Step 3- Install bracket #13-85036-000 and 13-85037-000 on Top PTC Battery as shown in image.

Use Hardware# 54-13108-084, 54-13112-082-Torque spec 5.2 ft-lb with Loctite

Step 4- Install brackets #13-85033-000 on PTC RACK Bracket 13-81379-002 (already installed on bus). This step requires match drilling on bracket 13-81379-002. Flush the faces of bracket #13-85033-000 and Bracket 13-81379-002 as shown in image below and drill .40" diameter hole in bracket 13-81379-002.

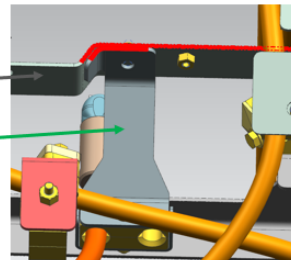
Use hardware- BOLT#54-11318-003, WASHER# 54-12600-007 and nylock nut 54-12540-006. Torque spec 15 ft-lbs.

13-85036-000 13-85037-000 13-85033-000



13-81379-002. This bracket is already installed on bus

13-85033-000



Install cables and clamps GEN2.5



Knowledge

FSC 22-13-2479 HV Interlock Loop Update

Step 5- Install HV cables 50-82631-020 as shown in Image. Note the orientation of clamps in below image. Ensure smooth bends adjust cable between clamps as needed

Article Record Type

Article Number

Publication Status

Last Modified Date

Version Number

Field Service Campaign

000001028

Published

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Clamp #13-81319-001

Support plate #13-85044-000

Bolt #54-11316-007

Washer #54-12600-006

Torque 8 ft-lbs with Loctite

New cable 50-82631-020

Labor Information

1.5

Warranty Claims

Repair is reimbursable through GILLIG Warranty. Include the Repair Plan bulletin number in the "Describe Specific Repairs Section" (BC's) of GILLIG Application for Warranty Form.

Parts Return Disposition

Scrap locally

Vendor Article

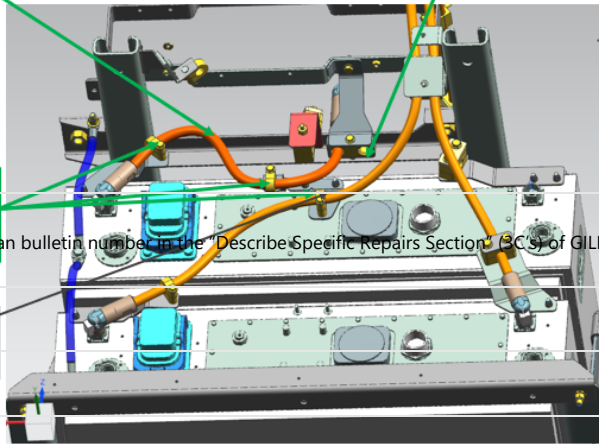
N/A (<https://N/A>)

Clamp #54-15400-442

Bolt #54-11316-006

Washer #54-12600-006

Cable #50-82631-000 already installed on bus. Just change one clamp on this cables as per image



Visibility

Visible In Internal App

Visible to Customer

Visible In Public Knowledge Base