



TECHNICAL SERVICE BULLETIN

Technical Service Bulletin Number- TSB0003

Date- Sept. 15 2018

Item, Unit or Assembly Affected - All Ford Transit Vans without 67C-Upfitter switches AND equipped with Wheelchair Lift (Braun, Ricon, etc.) or other accessory requiring more than 60 Amps and wired to the Customer Connection Point (CCP) located on the street side of the driver seat pedestal near the "B" Pillar

Serial Number(s) Affected - See above description

Reason for Bulletin - Ford Transit vans NOT equipped with the optional 67-C Upfitter switches package are limited to one, 60 Amp capacity connection point at the pedestal of the driver seat. Wheelchair lifts (or other accessories) that draw in excess of 60 Amps and are supplied with a Circuit Breaker that is greater than 60 Amps may blow the Ford Factory 60 Amp Fuse before the Circuit Breaker trips when using the Lift (or other accessory).

Action Required - Determine if the vehicle is equipped with the 67-C package or has been upgraded by observing the CCP (Customer Connection Point) located on Driver Seat Pedestal near the "B" Pillar. If only 1 connection point is available, the capacity is limited to 60 Amps. In order to increase capacity, a CCP kit (Ford Part Number BK2Z-14S411-A) must be ordered and installed. This will provide up to 3, 60 Amp connection terminals (for a total of 180 Amps). Please note that most Lifts do not require more than 120 Amps. The Ford kit provides 2 additional connections, so 1 kit can upgrade 2 vehicles. The Circuit Breaker provided with the Lift (or other accessory) must still be used to protect the circuit. If the vehicle is already equipped with the upgraded CCP and fuses or circuit breakers are tripping, there may be other issues with the lift or wiring unrelated to this Bulletin that must be investigated and corrected.

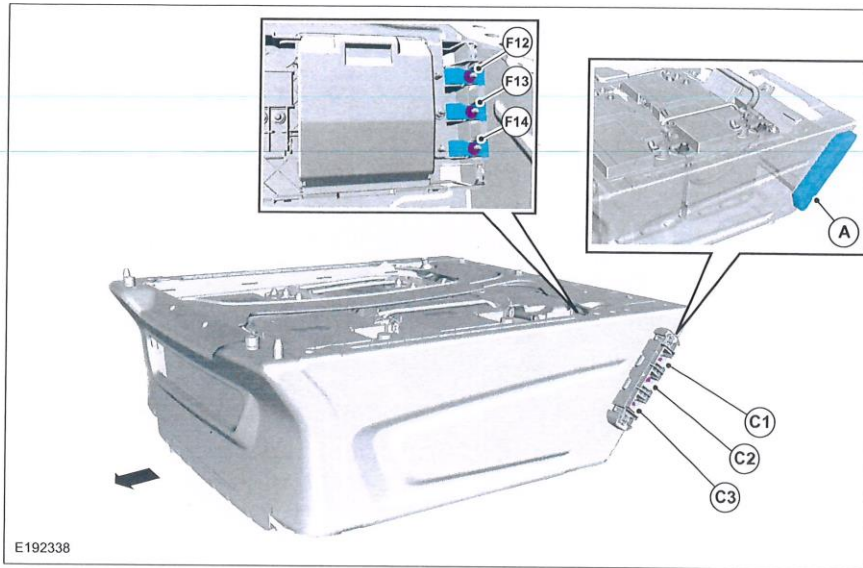
Safety Issue? This is Not a safety issue but the Wheelchair lift or other equipment may stop working until the blown fuse is replaced.

Please refer to attached pages from Ford (4.17.4 Customer Connection Points and SVE Bulletin Q-226R2)

Please contact Fenton Mobility Products / Abilitrax for any further questions or assistance at 800-500-6181 or mary@abilitrax.com.



4.17.4 Customer Connection Points



E192338

Item	Description
A	Customer Connection Point Cover
F12 - F14	60A Fuse
C1 - C3	Customer Connection Point

⚠ WARNING: If additional loads or connections are required, make sure that the correct level of base vehicle is ordered.

3 x 60A fuses are fitted in the Customer Connection Points supplied as part of the Auxiliary Switch Pack. See Figure E192338.

If the switches are not required but additional loads, connections and signals are still needed, it is necessary to order the Modified Vehicle Wiring System on the base vehicle.

For power and connectivity usage recommendations

Refer to: 4.4 Battery and Cables (page 73).



SVE BULLETIN

SPECIAL VEHICLE ENGINEERING – BODY BUILDERS ADVISORY SERVICE

E-Mail via Website: www.fleet.ford.com/truckbbas (click "Contact Us")

Toll-free: (877) 840-4338

QVM Bulletin: Q-226R2

Date: 20 October, 2014

Revised: 13 March, 2017

Revision	Update	Revision Date
Q-226R2	Added recommendation for vehicles requiring greater than 30 Amps	13 March, 2017

Accessing Battery Power on Transit

Models Affected: 2015 Transit – All models

Description: For modifications and equipment installations requiring B+ current loads greater than 30 Amps, the guidelines provided below should be followed.

NOTE: If a converter intends to add systems or accessories that will add significant electrical load (particularly at key off), then vehicles with twin High Performance Deep Cycle AGM batteries should be specified. The twin option is the standard heavy duty system for loads greater than 5mA continuous at key off or 30A at engine run. It is also recommended to upgrade to the heavy duty alternator option if the extra loads are continuously active at engine run and exceed 30A above standard Ford systems.

For Battery Power Less than 60 Amps

- Connect to the 1 x 60A Customer Connection Point (CCP) in the Pre Fuse Box (PFB)
- 1 x 60A MIDI fuse is present on all Transit vehicles (within the PFB in the driver seat pedestal).
- See the Transit Body and Equipment Mounting Manual (BEMM) for information regarding the use of the CCP's.

For B+ Battery Power Greater than 60 Amps

Vehicles with factory installed 3 X 60A Customer Connection Points (available with option 67C-Upfitter switches)

- Connect to the 3 x 60A Customer Connection Points on the driver seat pedestal.
- The CCP's are capable of providing up to a total of 180A.
- Refer to the BEMM for information regarding the use of CCP's

Vehicles without factory installed 3 X 60A Customer Connection Points.

Upfitters may order a Customer Connection Point kit through Ford dealers. The kit part number is:

BK2Z-14S411-A

This kit provides hardware for two additional 60 Amp CCP terminals, allowing the modifier to upgrade from the standard single 60 Amp CCP to three 60 Amp CCP's, for a total of 180 Amps.

Originator: BBAS

Document: SVE Bulletin No. Q-226R2

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Date Issued: 10/20/14



For Battery Power Greater than 180A

Vehicles equipped with dual AGM batteries will have a single empty B+ battery post on the rear or second AGM battery (see figure 1). Upfitters wishing to connect to this terminal must adhere to the following guidelines:

- Use only a W520101-S437 nut to secure the aftermarket eyelet (M6 - Electrolytic zinc plate, trivalent chromate, and clear sealer, with integral torque control lubricant). **No other nut or finish may be used.**
- The additional cable eyelet must have a complete flush contact to the terminal and be fully secured.
- The nut must be torqued to **8Nm [+/- 1.2Nm]**.
- The additional battery connection must be protected with an appropriately sized fuse.

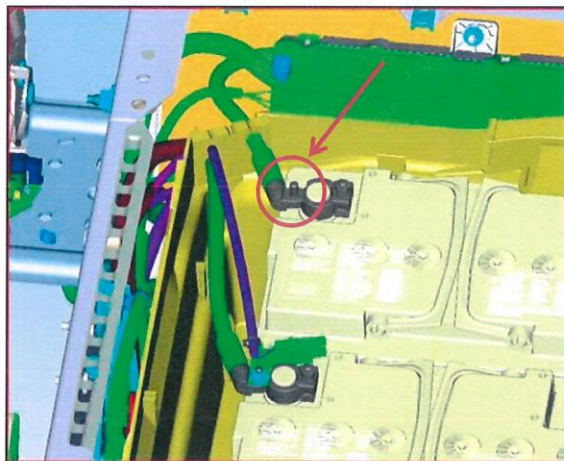


Fig. 1: Location of empty B+ battery post

Note: Single Battery variants

The B+ post on the single battery terminal can only accommodate a single terminal connection. The post is fully occupied by the alternator sense circuit, and cannot support an additional aftermarket terminal connection. **Any additional terminal connection to the single post may cause the charging system to malfunction or fail.** Upfitters connecting to the single battery post must provide an additional stud for their connection. All connection recommendations for the dual battery configuration shown above must be followed, and the additional connection and battery terminal must be protected with an appropriate battery terminal cover.

If you have any questions, please contact the Ford Truck Body Builders Advisory Service as shown in the header of this bulletin.



To perform this upgrade, proceed as follows;

1. Adjust Drivers Seat fully forward and upward.



2. Remove metal battery hold-down and plastic battery covers to expose batteries.



3. Disconnect battery cables.





4. Carefully tilt rear-most battery and remove. Slide front battery back, tilt and remove.



5. Tip and carefully remove the battery tray (caution plastic locator studs on bottom).

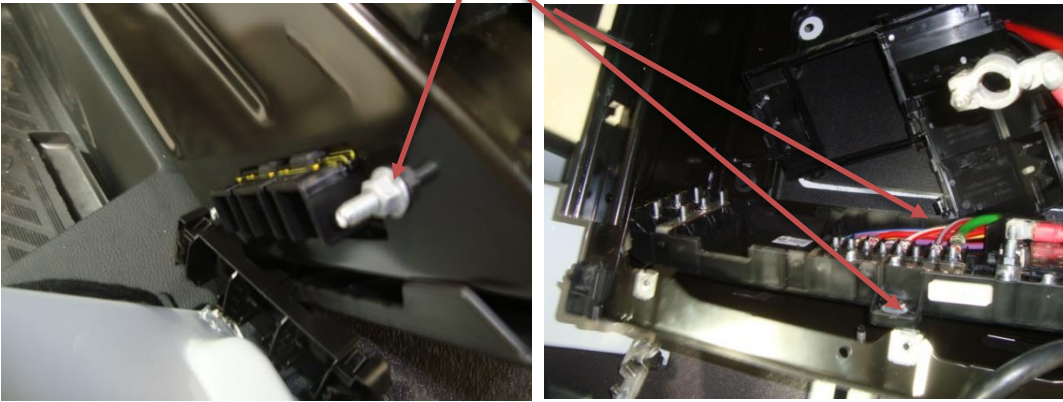


6. Disengage hooks and remove Junction Box cover at back of seat base.

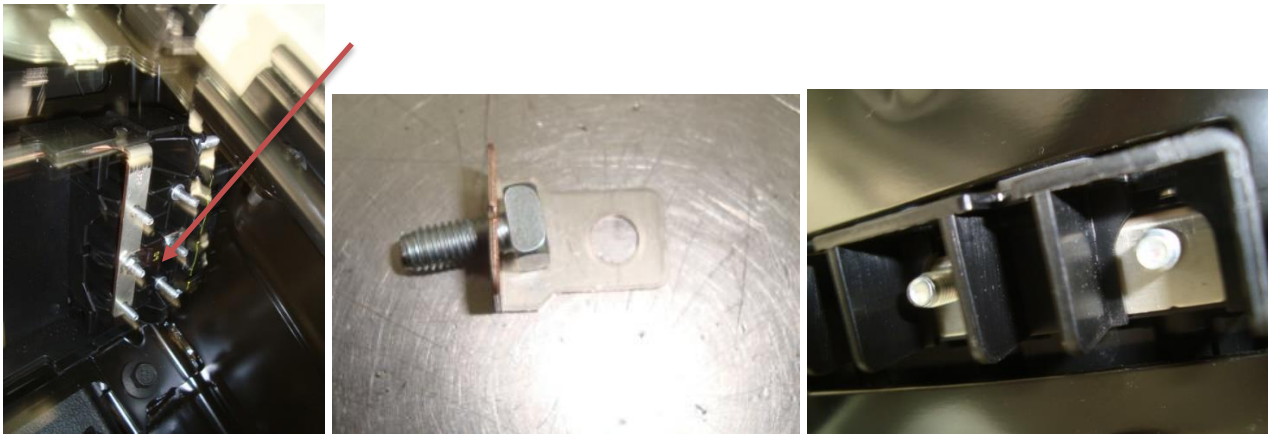




7. With cover removed, remove qty.3, 10mm nuts to allow movement of junction box to access terminals.



8. Note existing center terminal and blade fuse. This provides 60 Amps of power. Each additional terminal (up to 3 total) will provide an additional 60 Amps. Since most Wheelchair Lifts will only require 70-90 Amps total (and should be protected by separate circuit breaker accordingly), only 1 more terminal will need to be added. New terminal may be added at either side of existing center terminal. If power above 120 Amps is required, both additional connections will need to be installed.



9. Install addition Lug in the same manner as the existing (note the direction of the stud (bolt) through the spade connector). Add connector and blade fuse.
10. Reinstall all items in reverse order.