

**UPFITTER INTEGRATION Bulletin 102.1** 

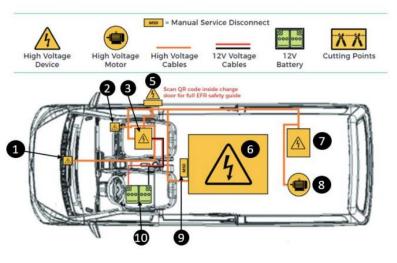
SUBJECT: No Drill Zones MODEL YEARS: 2024 & Beyond AFFECTED MODELS: UD Model ONE & UU Model THREE INITIATION DATE: 08/29/2023 REVISION: 10/05/2023

#### AWARENESS:

**Description of Concern:** Mounting upfit equipment near NO DRILL/NO CUT zones for HIGH VOLTAGE Electrical safety.

Solution: Mullen ONE - NO DRILL/NO CUT ELECTRICAL AREA

# High-Voltage Component Overview



- 1. Positive Temperature Coefficient (PTC) Heater
- 2. Air Conditioning Compressor
- 3. 3-in-1 (On-Board Charger, DC-DC Converter, Low-Voltage Distribution box)
- 4. High Voltage Cables (Shown in orange)
- 5. Inlet Charging Port
- 6. High Voltage Battery
- 7. MCU Motor Controller Unit
- 8. High-Voltage Drive Motor
- 9. Manual Service Disconnect (MSD)
- 10. 12-Volt Battery

Regarding HIGH VOLTAGE Batteries/Components & Wiring.

- 1) Maintain a minimum static clearance of 150mm / 3" between frame rail mounted HIGH VOLTAGE Batteries/Components/Wiring and Upfit Body/Equipment.
- 2) Do not alter or relocate HIGH VOLTAGE components from the OEM chassis location.
- 3) Do not mount Upfit Body/Equipment to the HIGH VOLTAGE Batteries/Components/Wiring.

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 Disclaimer: Service work in association with this Bulletin should only be completed by qualified technicians. It is important to note modifications or alterations to the vehicle could affect the performance of the vehicle also may have safety and warrantee implications. Contact the Mullen Commercial Upfitter Integration Team with any questions regarding the content of this document also if this bulletin applies to your vehicle.

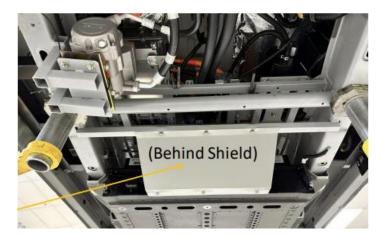


## **UPFITTER INTEGRATION Bulletin 102.1**

The Manual Service Disconnect ("MSD") Uses a two-stage release tab. When removed, this component provides a way to safely disconnect the high voltage battery from related components.

Removing the manual service disconnect (MSD) from the high-voltage battery does not dissipate voltage inside the battery, the battery pack remains live and dangerous.





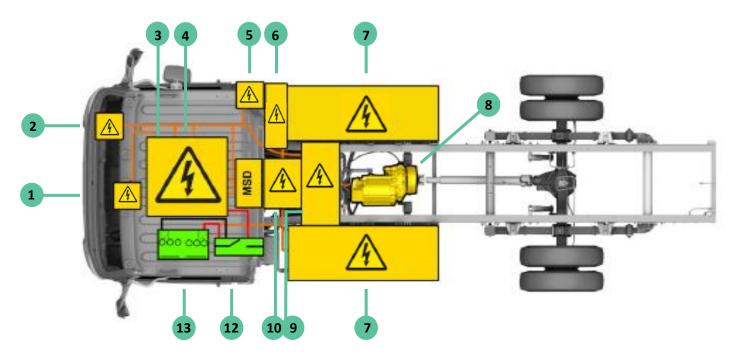
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#### Mullen THREE - NO DRILL/NO CUT ELECTRICAL AREA



1. Positive Temperature Coefficient Heater (PTC)	<u></u>	7. High Voltage Battery (2 on each side)	A
2. Air Conditioning Compressor (AC)	4	8. High Voltage Drive Motor	
3. Electro-Hydraulic Power Steering Pump (not shown – located beneath 4-in-1)	<u></u>	9. On Board Charger (OBD)	4
4. Auxiliary Drive System (4-in-1)	4	10. Battery Disconnect Unit (BDU)	4
5. Inlet Charging Port		11. Manual Service Disconnect (MSD)	MSD
6. High Voltage Battery Heater	4	12. 12-Volt Manual Battery Disconnect Switch	
12-Volt (Negative) Cables	—	13. 12-Volt Battery	000 000
12-Volt (Positive) Cables	_	High Voltage Cables	

Regarding HIGH VOLTAGE Batteries/Components & Wiring.

- 4) Maintain a minimum static clearance of 150mm / 3" between frame rail mounted HIGH VOLTAGE Batteries/Components/Wiring and Upfit Body/Equipment.
- 5) Do not alter or relocate HIGH VOLTAGE components from the OEM chassis location.
- 6) Do not mount Upfit Body/Equipment to the HIGH VOLTAGE Batteries/Components/Wiring.

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Supplemental Content: 2024 Mullen Upfit Guide (mullenusa.com)

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