EMERGENCY MANUAL SHUTDOWN
GILLIG ELECTRIC BUS

THE FOLLOWING ACTIONS WILL SHUT DOWN THE ELECTRIC BUS:

1. TURN IGNITION SWITCH TO OFF and SET PARKING BRAKE.

2. TURN OFF BATTERY DISCONNECT SWITCH (FRONT DRIVER SIDE)

3. Inform EMERGENCY PERSONNEL of the onboard high voltage components. (See other side)

4. Wait mandatory 4 MINUTE DISCHARGE period after shutdown before accessing electric drive components!
EMERGENCY RESPONSE GILLIG ELECTRIC BUS

**WARNING**

Operating voltage of the electric drive system is **700 VOLTS**!

Reducant HVIL (high voltage interlock loop) systems protect all circuits and components, **but it is still possible to receive a fatal electric shock from the high voltage system**. Avoid cutting, or even handling, orange high-voltage cables or high voltage components, as this could result in severe injury or death!

See reverse of this card for system shutdown information.

**WARNING**

**In Case of Fire:**
- Wear positive pressure self-contained breathing apparatus; structural firefighting clothing will only provide limited protection.
- Extinguish fires relating to intact cells with a Class ABC fire extinguisher.
- If cells are ruptured, use a Class BC Type CO₂ fire extinguisher.
- Use a non-conductive body hook.

**WARNING**

If working near high voltage cabling or components, use 1,000 VDC electrical gloves, rubber-soled shoes, and make sure you and the environment are perfectly dry.

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**Diagram:**

- **BATTERIES**
- **BATTERY CHILLER**
- **CONDENSER**
- **HV CABLES**
  - **PCS TO BATTERY CHILLER**
  - **BATTERY PDU**
  - **POWER DISTRIBUTION UNIT**
  - **HV CABLES**
    - **PCS TO BATTERIES**
    - **PDUs TO HVAC**
    - **APS TO PDUs**
    - **APS TO PCS**
    - **PCS**
    - **POWER DISTRIBUTION UNIT**
- **HV CABLES**
  - **FROM PDUs TO HVAC**
  - **FROM PDUs TO AIR COMPRESSOR**
  - **FROM PDUs TO EAC**
  - **FROM PCS TO PSP**
  - **FROM PCS TO TRACTION MOTOR**
- **DRIVER’S HEATER**
- **EAC**
  - **ELECTRIC AIR COMPRESSOR**
- **HV CABLES**
  - **FROM PCS TO TRACTION MOTOR**
- **HV CABLES**
  - **FROM PCS TO POWER STEERING PUMP**
- **HV CABLES**
  - **FROM PCS TO AC TRACTION MOTOR**
- **PCPS TO BATTERY CHILLER**
- **BMS**
  - **BATTERY MANAGEMENT SYSTEM**
- **WAVE PAD**
  - **(CABLES NOT POWERED)**
- **ACTM**
  - **TRACTION MOTOR**
- **PSP**
  - **ELECTRIC POWER STEERING PUMP**

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**GILLIG**