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<td>Steering wheel, tilt control</td>
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<td>Use only these lifting points</td>
</tr>
<tr>
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<td>Shutdown high voltage (available in two locations)</td>
</tr>
<tr>
<td></td>
<td>Use 12/24V switch to disable HV</td>
</tr>
<tr>
<td></td>
<td>When circumstances allow, park the bus in a safe location, set the parking brake, and select “neutral” on the shift selector.</td>
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<tr>
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</tr>
<tr>
<td>4. Access to the occupants</td>
<td>Two door exits</td>
</tr>
<tr>
<td></td>
<td>Two roof exit</td>
</tr>
<tr>
<td></td>
<td>Break these windows to obtain access</td>
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1. Identification / recognition

This chapter provides relevant information on identification of a GILLIG Battery Electric bus.

1.1 Special badging

Badging is used to identify GILLIG battery electric vehicles, as shown in Fig. 1.1.

These emblems are applied in the vehicle front, rear, street, and curbside locations, as shown in Fig. 1.2.

Emergency vehicle identification label is located under rear vehicle door, as shown in Fig. 1.3.

Fig. 1.1. GILLIG Battery Electric Vehicle Badging
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1.2 Vehicle identification plate

The VIN plate contains information for the identification of the vehicle model (35 or 40 foot) and battery electric propulsion, as shown in Fig. 1.4.

![Vehicle Identification Plate](image1)

**Fig. 1.4. GILLIG VIN Denomination for 35/40-foot Battery Electric Bus**

The location of the VIN plate is shown in Fig. 1.5.

![Vehicle VIN Plate Location](image2)

**Fig. 1.5. GILLIG VIN Plate Location**
1.3 BEV label

A specific label (Fig. 1.6) on the driver’s dashboard (Fig. 1.7) identifies the vehicle as "Battery Electric".

Fig. 1.6. GILLIG Battery Electric Vehicle Identification Label

Fig. 1.7. GILLIG Battery Electric Vehicle Identification Label Location
1.4 Information on High-Voltage Energy Source

Lithium-Ion battery cell chemistry, 750V nominal pack voltage. Bus may be equipped with five, six, or seven battery packs, with each pack providing 74 kWh or 98 kWh, yielding a total nominal energy capacity between 370 kWh and 686 kWh. The High Voltage system layout is shown in Fig. 1.8.

![High Voltage System Layout](image)

**Fig. 1.8. Gillig Battery Electric Bus High Voltage System Layout**
2. Immobilization / stabilization / lifting

To turn the vehicle OFF, follow either the A) "non-emergency" immobilization procedure or the B) “emergency” immobilization procedure, depending on the specific circumstances.

A) Non-emergency immobilization procedure:

1. Park the bus in a safe location;
2. Set the parking brake and select “Neutral” on the push-button Shift selector and turn the Master Run Control to the “OFF” position, as indicated in Fig. 2.1:

   ![Fig. 2.1](image)

3. Release the air pressure from the front door motors by moving the “Door Air” lever, located at the rear of the driver’s left console) to the “RELEASE” position. This action avoids automatic door closure;
4. Wait at least 60 seconds;
5. Disable the system by rotating the 12/24V front disconnect switch 2A or by rotating the rear door disconnect switch 2B:

   ![Fig. 2.2](image)

6. Wait 10 minutes after shutdown before accessing High-Voltage components

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B) **Emergency immobilization procedure:**

1. Disable the High-Voltage system by either rotating the front disconnect switch 2A or the rear disconnect switch 2B as indicated in Fig. 2.3:

   ![Fig. 2.3](image)

2. If possible, set the parking brake and select “Neutral” on the push-button Shift selector.

If jacking is required, follow the procedure indicated here or in the vehicle operator’s manual:

1. Position the bus on a hard, level, flat surface before jacking.
2. Set the parking brake and select “Neutral” on the push-button Shift selector and turn the Master Run Control to the “OFF” position, as indicated in Fig. 2.4:

   ![Fig. 2.4](image)

3. Wait at least 60 seconds.
4. Turn the Main Disconnect Switch (12/24V) to the “OFF” position.
5. Install the LOTO lock and LOTO tag onto the Main Disconnect Switch (12/24V) to lock it in the “OFF” position.
6. The floor jack must be located properly (Fig. 2.5) to prevent the possibility of the jack sliding from under the bus.

![Fig. 2.5](image)
Do not position the jack under the “dropped” frame rails in the center section of the bus!

7. Block or chock the front and rear of the wheel on the opposite side of the bus being raised to help prevent the bus from moving.

8. If a flat tire is to be removed, raise the bus so an inflated spare tire will just clear the surface. Jacking the bus to change a front tire can be done on the front axle beam, and at other frame locations indicated by the OK symbols in Figure 1-25. Jacking the bus to change a rear tire can be done on the rear axle and at the locations on the rear suspension indicated by an OK symbol.
3. **Disable direct hazards / safety regulations**

Use the "IDENTIFY/IMMOBILIZE/DISABLE" emergency process, as referenced by National Fire Protection Agency (NFPA) "Emergency Field Guide" Ed. 2018:

**IDENTIFY**

- Look for external badging indicating the alternative fuel vehicle. See "identification" section.
- This vehicle has external high-voltage identification badging and warning labels per SAE J2990 and J2910.
- Beware, badging may be hidden in a crash or fire, so alternative identification methods may need to be used. Refer to the "identification" section for alternate identification methods.
- When circumstances allow, determine vehicle’s make, model, and year (see “identification” section).

**IMMOBILIZE**

- Vehicles should be immobilized prior to working around them.
- Approach the vehicle from a 45° angle to stay out of the potential path of travel and chock the wheels.
- Refer to Chapter 2 "Immobilization" for "non-emergency" and "emergency" immobilization procedures specific for this vehicle.

**DISABLE**

- Hybrid and electric vehicles may appear to be shut down even when they are not due to the potential lack of engine noise.
- Refer to Chapter 2 “Immobilization” for “non-emergency” and “emergency” to identify the specific shut-down procedure to be followed.
4. Access to the occupants

4.1 Vehicle shell and body structure

The materials used for the vehicle shell and body structure are shown in Fig. 4.1, including details of high strength steel zones.

Prohibited cut zones are shown in Fig. 4.2.

![Diagram of vehicle shell and body structure with materials highlighted]

**Fig. 4.1. Construction Materials**

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Fig. 4.2 No Cut Zones
4.2 Adjustment(s) mechanism(s) driver’s seat and steering wheel

WARNING
The seat should be adjusted ONLY when the bus is stopped, with the transmission in Neutral, and the parking brake applied.
A Adjust the headrest height by pulling up or pushing down to the desired height; adjust the headrest tilt by pulling forward or pushing backward.

B The recline angle between the seat back and the cushion can be adjusted using the large knobs located on either side of the seat.

C The top switch regulates the pressure in the upper lumbar support cushion. Push the switch forward to inflate the cushion; rearward deflates the cushion.

D The middle switch regulates the pressure in the middle lumbar support cushion. Push the switch forward to inflate the cushion; rearward deflates the cushion.

E The lower switch regulates the pressure in the lower lumbar support cushion. Push the switch forward to inflate the cushion; rearward deflates the cushion.

F Forward and backward adjustment is performed by pushing this button and then sliding the seat to the desired location. Release the button to lock the seat into position.

G To raise the level of the seat, press on the upper part of this switch. To lower the seat, depress the lower part of this switch.

H The angle of the front seat cushion can be adjusted using the large handles located on either side of the seat base. To adjust the seat cushion angle, pull up on the handles and move the thigh extension cushion up or down to the desired position.

I Forward and backward adjustment is performed by pulling up on the handle located at the front base of the seat and then sliding the seat to the desired location. Button F performs the same function.

J The front part of the seat cushion can be extended for thigh support. Pull the cushion forward or push it back for optimum comfort.

K Use this switch to control the optional seat heater.

L This seat features an adjustable shock absorber. Turn the knob clockwise to soften the ride or counterclockwise to stiffen the ride.

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STEERING WHEEL

The GILLIG Low Floor features a fully adjustable steering wheel which, in combination with the adjustable driver’s seat, permits drivers of all shapes and sizes to comfortably operate the bus.

⚠️ WARNING

The steering wheel should be adjusted only when the bus is stopped, with the transmission in Neutral, and the parking brake applied. Never adjust the steering wheel while the bus is moving!

Both the angle (or tilt) of the steering wheel and the length of the steering column (telescope) can be adjusted. The Steering Column Adjustment Lever, located on the left side of the steering column, controls both of these adjustments.

To adjust the tilt of the steering wheel, pull up on the lever and, while holding the lever up, move the steering wheel to the most comfortable angle. Release the lever to lock the wheel tilt into place.

To adjust the length of the telescoping steering column, push down on the lever and, while holding the lever down, lift or push the steering wheel to the proper height. Release the lever to lock the steering column length.
4.3 Vehicle kneeling system

The kneeling system lowers the front of the bus about 3" below normal ride height to make passenger loading easier. To make the bus kneel, raise the toggle guard on the switch and hold the toggle in the “KNEEL” position until the bus drops to the correct height. When the bus kneels, the interlock system disables the throttle and applies the brake interlock. To raise the bus back to its normal ride height, push the Kneel toggle switch to the “RAISE” position and release it immediately. After 2.5 seconds of raising motion, you can apply the service brake to disengage the interlock system.

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## 5. Stored energy / liquids / gases / solids

<table>
<thead>
<tr>
<th>Component type</th>
<th>Type/chemistry</th>
<th>Number</th>
<th>Volume/weight</th>
<th>Max. oper. pressure</th>
<th>Specific Danger (Symbol)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV Propulsion Batteries</td>
<td>Lithium-Ion</td>
<td>max. 7</td>
<td>1200 lbs (each)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12/24V Batteries (House)</td>
<td>Lead-acid/AGM</td>
<td>2</td>
<td>75 lbs (each)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12V/24V Batteries (Fire suppr. system)</td>
<td>Lead-acid/AGM</td>
<td>2</td>
<td>22 lbs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air system</td>
<td>Compressed air</td>
<td>4 tanks</td>
<td>6350 cu.in.</td>
<td>130 psi</td>
<td></td>
</tr>
<tr>
<td>Fire suppression bottles</td>
<td>Type ABC powder</td>
<td>2</td>
<td>13 lbs (front) / 30 lbs (back)</td>
<td>300 psi</td>
<td></td>
</tr>
<tr>
<td>Coolant (ECP, HV Batteries, HVAC)</td>
<td>Ethylene-glycol/H2O</td>
<td>2</td>
<td>20 gal</td>
<td>15 psi</td>
<td></td>
</tr>
<tr>
<td>A/C fluid</td>
<td>R407C</td>
<td></td>
<td>6350 g</td>
<td>250 psi</td>
<td></td>
</tr>
</tbody>
</table>

### Flammable fluids/materials

<p>| | | | | | |</p>
<table>
<thead>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Diesel fuel (FF heater)</td>
<td>Diesel</td>
<td>1 tank</td>
<td>14 gal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) steering fluid</td>
<td>Castrol TranSynd</td>
<td>1 tank</td>
<td>1.1 gal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) rear axle/front wheel bearing fluid</td>
<td>API GL-5/SAE J2360</td>
<td>2 tanks</td>
<td>5.5 gal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) Interior materials</td>
<td>In accordance with DOT/FMVSS 302</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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5.1 High-Voltage battery information —
General First Aid measures & environmental aspects

Under normal conditions of use, the battery does not present any risk of exposure to its content. **However, unforeseen circumstances (e.g., a vehicle collision) may cause damage to one or more battery cells with uncontrolled increases in temperature and pressure (thermal runaway), which can lead to several possible hazards, as described below:**

Exposure to high voltage (>60V):
- Avoid contact with HV cabling and components. ALWAYS assume the HV system is energized.
- Avoid contact with a damaged HV battery, a significant shock hazard may exist.
- NEVER cut orange HV cabling or penetrate HV components with tools.
- HV system shutdown procedures in Chapter 2 are designed to disable the vehicle’s HV system, not to discharge the HV battery. **THE HV BATTERY WILL REMAIN ENERGIZED.**
- Even with the HV batteries completely discharged (State of charge = 0), the system remains within the class B voltage definition and should therefore be disconnected as indicated in Chapter 2 "Immobilization".
- Sparks, smoke, or bubbling noises coming from the HV battery are signs of a potentially overheating battery, which could result in a delayed fire.
- Follow local medical protocols and First Aid SOPs for any burn, electrical, or other injuries.

Exposure to electrolyte mixture:
- Wear appropriate PPE if exposure to electrolyte is expected. SCBA is highly recommended due to the possibility of severely irritating fumes.
- Any clothing or PPE that may have come into contact with electrolyte should be either decontaminated or discarded appropriately.

Inhalation in non-fire situations:
- If you detect leaking fluids, sparks, smoke, or bubbling noises coming from the HV battery, ventilate the vehicle by opening the windows to prevent the buildup of fumes.
- If electrolyte leaks and gets exposed to the air, electrolytic vapors may be released. Even in a non-fire situation, the electrolytic vapors may be toxic or at least severely irritating. If vapors are inhaled, immediately move to fresh air.

Safety measures for battery handling:
- The battery assembly cover should never be breached or removed under any circumstances, including fire. Doing so might result in severe electrical burns, shocks, or electrocution.

Harmful and/or flammable fumes:
- Contents of HV batteries should be considered corrosive, toxic and/or flammable
- If you detect unusual odors or experience eye, nose, throat, or skin irritation, use full PPE with SCBA.
- If you detect leaking fluids, sparks, smoke, or bubbling noises coming from the HV battery, ventilate the vehicle by opening doors and windows to prevent the buildup of fumes.
- Sparks, smoke, or bubbling noises coming from the HV battery are signs of a potentially overheating battery, which could result in a delayed fire.

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Spill/leak hazards from HV batteries:

- HV Li-Ion batteries are considered dry cell batteries, and if damaged or breached, electrolyte leakage should be minimal.
- The HV batteries of this vehicle are liquid cooled. If such batteries are damaged, coolant may leak. The coolant is a water/glycol/ethylene solution, similar to that of the conventional vehicle radiators and should not be confused with battery electrolyte.
- If damage is extensive, cross contamination with battery electrolyte is possible.
6. **In case of fire**

6.1 **General information**

- This vehicle is equipped with an automatic “FIRE” alarm indicator, as shown in Fig. 6.1.

![Image](image_url)

**Fig. 6.1.**

- When the system detects dangerously high temperatures in the Powertrain Compartment, the “Fire” indicator lamp on the driver’s dashboard will turn on, and the fire alarm bell will sound.

- The EV System will shut down automatically 15 seconds after fire conditions were detected. In case more time is needed, for example, to allow parking the vehicle in a safe location, then activate the “Stop System Override” switch before the EV System shuts down to gain another 15 seconds of uptime.

In case of fire, use standard vehicle firefighting equipment and tactics in accordance with department standard operating procedures SOPs/SOGs.

Electric vehicles do not require special equipment for fire suppression and/or extinguishment.

6.2 **Battery fire situations**

- Establish a 20-foot radius "safety zone" around the vehicle.

- Use abundant amounts of water to extinguish a battery fire. Do not use ABC fire extinguishers to put out a battery fire.

- **DO NOT EXTINGUISH BATTERY FIRES WITH SMALL AMOUNTS OF WATER.** Establish an additional water source as battery fires can take up to 24-hours to burn out and several thousand gallons of water.

- Use a thermal imaging camera to ensure all heat sources are extinguished and prevent from risk of reignition.

- Standard firefighting practices can be applied to other portions of the vehicle to prevent the fire from spreading.

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7. In case of submersion

- The HV system is isolated from the chassis and is designed to pose no shock hazard from touching the vehicle body.
- The system is designed not to energize surrounding water and is equipped with short-circuit fault detectors designed to shut down the HV system in the event of a short.
- On a submerged vehicle, avoid contact with HV components, cabling, or service disconnects.
- Follow standard departmental practices and procedures for patient access and vehicle removal from water.
8. **Towing / transportation / storage**

8.1 **Vehicle removal information**

- GILLIG recommends flat bedding a disabled bus.
- If towing is needed, flat towing from the front with a fixed tow bar is recommended.
- Towing with the front end raised should be a last resort. GILLIG does not recommend towing from the rear.
- For complete flat bedding and towing procedures, refer to the operator’s manual included in this vehicle.
- **WARNING:** Remove the driveshaft or both axle shafts before towing the bus! Towing with the driveline rotating may create risks of FIRE in the High-Voltage electrical system.

8.2 **Battery information**

- In a post fire/crash situation or if damage to the batteries is observed or suspected, immediately notify the manufacturer indicated on the “Identification” tags in Chapter 1;
- Notify tow operators removing the vehicle of the need of trained personnel to inspect it and provide recommendations for storage and disposal.
- Due to the potential of delayed fire, do not store a severely damaged vehicle containing an HV Lithium-Ion battery in or within 150 feet of a structure or other vehicle.
- Should removal of the battery packs be needed, refer to the procedure specified in the vehicle operator’s manual included in this vehicle.
9. Important additional information

This page left intentionally blank.
10. Explanation of pictograms used

The text and images on the following pages have been copied from Annex B of ISO 17840-3:2019(E) Road vehicles – Information for first and second responders – Parts 3: Emergency response guide template.
ISO 17840-3:2019(E)

Annex B
(normative)

Pictograms for use in ISO 17840

Components/functions/actions that shall be considered during the rescue procedure are represented by dedicated pictograms. The pictograms are used:

— to indicate the location of the respective components/functions in the vehicle, in conjunction with the rescue sheet illustration (for details, see ISO 17840-1 and ISO 17840-2);

— to communicate a specific function or danger, for use under the rescue sheet additional pages headings and ERG headings;

— to communicate the recognition of propulsion type; and

— to indicate the extinguish measures.

Level of importance:

— 1 = Crucial information for the rescue operations, as applicable to the vehicle type/model; and

— 2 = Optional information, to further assist the rescue procedures.

Tables B.1 to B.8 list the pictograms for the components and functions to be considered.

NOTE Where applicable, the pictograms are shown both with and without the corner marks for the basic symbol pattern according to IEC 80416-1.

Table B.1 — Pictograms concerning recognition

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Pictogram example 1" /></td>
<td>Examples of propulsion type recognition</td>
</tr>
<tr>
<td><img src="image2" alt="Pictogram example 2" /></td>
<td>Reference: ISO 17840-4</td>
</tr>
<tr>
<td></td>
<td>Level of importance: 1</td>
</tr>
<tr>
<td></td>
<td>To be used in/on:</td>
</tr>
<tr>
<td></td>
<td>— Rescue sheet illustration;</td>
</tr>
<tr>
<td></td>
<td>— ERG under heading 1.</td>
</tr>
<tr>
<td></td>
<td>NOTE Pictogram examples for fuel cell and hybrid electric Diesel propulsion are shown. See ISO 17840-4 for principles and other propulsion pictograms.</td>
</tr>
</tbody>
</table>
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### ISO 17840-3:2019(E)

**Table B.4 (continued)**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/meaning/referent</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Pictogram 1](image1.png) | Fuse box disabling high voltage | Function/Description: To identify the low voltage fuse that controls the high voltage. Level of importance: 1 Colours: 
  - Yellow, RGB: 255,255,0 
  - Orange, RGB: 255,165,0 
  - Black Reference: ISO 17840-1 To be used in/on: 
  - Rescue sheet illustration and secondary pages under heading 3. 
  - ERG under heading 3. NOTE: This is a method used by various car manufacturers. |
| ![Pictogram 2](image2.png) | Cable cut | Function/Description: To identify the cable to cut that disconnect high voltage and SRS components. To show that two separate places in the same cable shall be cut. Size and proportions can be adjusted to fit the intended purpose. Level of importance: 1 Colours: 
  - Yellow, RGB: 255,255,0
  - Orange, RGB: 255,165,0
  - Red, RGB: 206,17,38
  - Black Reference: — To be used in/on: 
  - Rescue sheet illustration and additional pages under heading 3; 
  - ERG under heading 3. NOTE: This is a method used by various car manufacturers. |
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Table B.5 — Pictograms concerning access to the occupants

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Pictogram](image1) | **Title/meaning/referent:** Emergency exit right hand (emergency hatches, ...)  
**Function/description:** To indicate an escape route to a place of safety.  
**Level of importance:** 1  
**Colours:**  
  - Green, RGB: 0,160,104  
  - White  
**Reference:** ISO 7010-E002  
**To be used in/on:**  
  - Rescue sheet illustration;  
  - Rescue sheet secondary pages under heading 4;  
  - ERG under heading 4. |
| ![Pictogram](image2) | **Title/meaning/referent:** Emergency exit left hand (emergency hatches, ...)  
**Function/description:** To indicate an escape route to a place of safety.  
**Level of importance:** 1  
**Colours:**  
  - Green, RGB: 0,160,104  
  - White  
**Reference:** ISO 7010-E001  
**To be used in/on:**  
  - Rescue sheet illustration;  
  - Rescue sheet secondary pages under heading 4;  
  - ERG under heading 4. |
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ISO 17840-3:2019(E)

**Table B.5 (continued)**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Pictogram](image1) | **Title/ Meaning/ Referent:** Height control bus, by air system  
**Function/ description:** To identify the control that moves the chassis upward or downward by air. A frame may be used to separate the pictogram from the background as needed.  
**Level of importance:** 1  
**Colours:**  
- White  
- Black  
**Reference:**  
- Application of ISO 7001-PI TF 006  
- Application of ISO 7000-2462  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 2;  
- ERG under heading 2. |
| ![Pictogram](image2) | **Title/ Meaning/ Referent:** Height control truck, by air system  
**Function/ description:** To identify the control that raises or lowers the entire vehicle by air. A frame may be used to separate the pictogram from the background as needed.  
**Level of importance:** 1  
**Colours:**  
- Black  
- White  
**Reference:** Application of ISO 7000-2461  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 2;  
- ERG under heading 2. |
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ISO 17840-3:2019(E)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/meaning/Referent</th>
<th>Function/description</th>
<th>Level of importance</th>
<th>Colours</th>
<th>Reference</th>
<th>To be used in/on</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="imageA.png" alt="Image A" /></td>
<td>Steering wheel, tilt control</td>
<td>To identify the control that allows adjustment of the steering wheel by tilting up or down. A frame may be used to separate the pictogram from the background as needed.</td>
<td>2</td>
<td>Black, White</td>
<td>Application of ISO 7000-2064</td>
<td>ERG under heading 4</td>
</tr>
<tr>
<td><img src="imageB.png" alt="Image B" /></td>
<td>Seat height adjustment</td>
<td>To identify the control that moves the entire seat upward or downward. A frame may be used to separate the pictogram from the background as needed.</td>
<td>2</td>
<td>Black, White</td>
<td>Application of ISO 7000-1430</td>
<td>ERG under heading 4</td>
</tr>
</tbody>
</table>
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ISO 17840-3:2019(E)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/meaning/referent: Airbag inflator/stored gas inflator. Function/description: To identify an airbag inflator/stored gas inflator. Level of importance: 1 Colours: — Blue, RGB: 77,77,255 — Red, RGB: 255,0,0 — White Reference: ISO 17840-1 To be used in/on: — Rescue sheet illustration; — ERG under heading 9. Remarks: Pictogram can be adjusted to represent the actual size and form. Pictogram is used to show the location of the stored gas inflator for e.g. inflatable curtains or pedestrian protection active system. This pictogram should not be shown for conventional airbag systems with integrated gas inflator, such as frontal airbag in the steering wheel or in the dashboard, side airbag, knee airbag.</th>
</tr>
</thead>
</table>

| Pictogram | Title/meaning/referent: Seat belt pretensioner Function/description: To identify a seat belt pretensioner. Level of importance: 1 Colours: — Purple, RGB: 152,43,143 — Red, RGB: 255,0,0 — White Reference: ISO 17840-1 To be used in/on: — Rescue sheet illustration; — ERG under heading 9. Remarks: If a seating position has more than one pretensioner (e.g. for lap and shoulder belt), each pretensioner location shall be indicated by pictogram. Pictogram can be adjusted to represent the actual size and form. It can also be a combination of simple forms. |
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ISO 17840-3:2019(E)

Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Pictogram](image1.png) | Title/meaning/referent: Fuel cell component  
Function/description: To indicate a fuel cell component.  
Level of importance: 1  
Colours:  
— Orange, RGB: 255,165,0  
— Light blue, RGB: 0,176,240  
— Black  
Reference: —  
To be used in/on:  
— Rescue sheet illustration;  
— Rescue sheet secondary pages under heading 5;  
— ERG under heading 5.  
Remarks:  
Pictogram can be adjusted to represent the actual size and form. |
| ![Pictogram](image2.png) | Title/meaning/referent: High voltage ultra-capacitor  
Function/description: To indicate an ultra-capacitor pack.  
Level of importance: 1  
Colours:  
— Orange, RGB: 255,165,0  
— Black  
Reference: ISO 17840-1  
To be used in/on:  
— Rescue sheet illustration;  
— Rescue sheet secondary pages under heading 3;  
— ERG under heading 3.  
Remarks:  
For class B voltage application. |
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Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Image](image1.png) | **Title/meaning/referent:** Fuel tank content Diesel  
**Function/description:** To indicate the content of the tank by using a defined colour.  
**Level of importance:** 1  
**Colours:**  
- Grey, RGB: 127,127,127  
- Black  
**Reference:** —  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 5;  
- ERG under heading 5. |
| ![Image](image2.png) | **Title/meaning/referent:** Fuel tank content gasoline/ethanol  
**Function/description:** To indicate the content of the tank by using a defined colour.  
**Level of importance:** 1  
**Colours:**  
- Dark red, RGB: 139,0,0  
- Black  
**Reference:** —  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 5;  
- ERG under heading 5. |
| ![Image](image3.png) | **Title/meaning/referent:** Tank content oil (e.g. hybrid oil technology)  
**Function/description:** To indicate the content of the tank by using a defined colour.  
**Level of importance:** 1  
**Colours:**  
- Brown, RGB: 183,120,29  
- Black  
**Reference:** —  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 5;  
- ERG under heading 5. |
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<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/ Meaning/ Referent: Automatic gas overpressure safety valve with gas type indication (CNG)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="CNG" /></td>
<td>Function/ description: To indicate the device that controls gas overpressure in a tank by using a defined colour and indication of gas type.</td>
</tr>
<tr>
<td></td>
<td>— Controlled by pressure (pressure release device);</td>
</tr>
<tr>
<td></td>
<td>— Controlled by temperature (temperature pressure release device).</td>
</tr>
<tr>
<td>Level of importance: 1</td>
<td></td>
</tr>
<tr>
<td>Colours:</td>
<td></td>
</tr>
<tr>
<td>— Green, RGB: 0,176,80</td>
<td></td>
</tr>
<tr>
<td>— White</td>
<td></td>
</tr>
<tr>
<td>Reference:</td>
<td></td>
</tr>
<tr>
<td>— ISO 17840-1;</td>
<td></td>
</tr>
<tr>
<td>— Application of ISO 7000-1852.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/ Meaning/ Referent: Gas tank with gas type indication (LPG)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image2" alt="LPG" /></td>
<td>Function/ description: To indicate the content of the tank by using a defined colour and indication of gas type.</td>
</tr>
<tr>
<td>Level of importance: 1</td>
<td></td>
</tr>
<tr>
<td>Colours:</td>
<td></td>
</tr>
<tr>
<td>— Green, RGB: 0,176,80</td>
<td></td>
</tr>
<tr>
<td>— White</td>
<td></td>
</tr>
<tr>
<td>Reference: ISO 17840-1</td>
<td></td>
</tr>
</tbody>
</table>

| To be used in/on: |
| — Rescue sheet illustration; |
| — Rescue sheet secondary pages under heading 3; |
| — ERG under heading 3. |
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ISO 17840-3:2019(E)

Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![DME](image1) | **Title/meaning/referent:** Gas tank with gas type indication (DME)  
**Function/Description:** To indicate the content of the tank by using a defined colour and indication of gas type.  
**Level of importance:** 1  
**Colours:**  
- Green RGB: 0,176,80  
- White.  
**Reference:** ISO 17840-1  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 3;  
- ERG under heading 5. |
| ![DME](image2) | **Title/meaning/referent:** Manual gas shut-off valve with gas type indication (DME)  
**Function/Description:** To indicate the manual gas shut-off valve by using a defined colour and indication of gas type.  
**Level of importance:** 1  
**Colours:**  
- Green, RGB: 0,176,80  
- White  
**Reference:**  
- ISO 17840-1;  
- Application of ISO 7000-1852.  
**To be used in/on:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 3;  
- ERG under heading 3. |
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Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![DME Pictogram](image1) | **Title/meaning/referent:** Automatic gas overpressure safety valve with gas type indication (DME)  
**Function/description:** To indicate the device that controls gas overpressure in a tank by using a defined colour and indication of gas type.  
— Controlled by pressure (pressure release device);  
— Controlled by temperature (temperature pressure release device).  
**Level of importance:** 1  
**Colours:**  
— Green RGB: 0,176,80  
— White  
**Reference:**  
— ISO 17840-1;  
— Application of ISO 7000-1852.  
**To be used in/on:**  
— Rescue sheet illustration;  
— Rescue sheet secondary pages under heading 3;  
— ERG under heading 3. |
| ![LNG Pictogram](image2) | **Title/meaning/referent:** Gas tank with gas type indication (LNG)  
**Function/description:** To indicate the content of the tank by using a defined colour and indication of gas type.  
**Level of importance:** 1  
**Colours:**  
— Green, RGB: 0,176,80  
— White  
**Reference:** ISO 17940-1  
**To be used in/on:**  
— Rescue sheet illustration;  
— Rescue sheet secondary pages under heading 5;  
— ERG under heading 5. |
ISO 17840-3:2019(E)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Pictogram](image1) | **Title/ Meaning/ Referent:** Manual gas shut-off valve with gas type indication (LNG)  
**Function/ description:** To indicate the manual gas shut-off valve by using a defined colour and indication of gas type.  
**Level of importance:** 1  
**Colours:**  
- Green, RGB: 0,176,80  
- White  
**Reference:**  
- ISO 17840-1;  
- Application of ISO 7000-1852.  
**To be used in:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 3;  
- ERG under heading 3. |
| ![Pictogram](image2) | **Title/ Meaning/ Referent:** Automatic gas overpressure safety valve with gas type indication (LNG).  
**Function/ description:** To indicate the device that controls gas overpressure in a tank by using a defined colour and indication of gas type.  
- Controlled by pressure (pressure release device);  
- Controlled by temperature (temperature pressure release device).  
**Level of importance:** 1  
**Colours:**  
- Green, RGB: 0,176,80  
- White  
**Reference:**  
- ISO 17840-1;  
- Application of ISO 7000-1852.  
**To be used in:**  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 3;  
- ERG under heading 3. |
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### Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![H2 Pictogram](image1) | **Title/meaning/Referent**: Automatic hydrogen overpressure safety valve with gas type indication  
**Function/description**: To indicate the device that controls gas overpressure in a tank by using a defined colour and indication of gas type.  
- Controlled by temperature (temperature pressure release device).  
**Level of importance**: 1  
**Colours**:  
- Light blue RGB: 0,176,240  
- White  
**Reference**:  
- ISO 17840-1;  
- Application of ISO 7000-1852.  
**To be used in/on**:  
- Rescue sheet illustration;  
- Rescue sheet secondary pages under heading 3;  
- ERG under heading 3. |
| ![AIR Pictogram](image2) | **Title/meaning/Referent**: Air tank  
**Function/description**: To indicate an air tank.  
**Level of importance**: 1  
**Colours**:  
- Black  
- White  
**Reference**: ISO 17840-1  
**To be used in/on**:  
- Rescue sheet illustration;  
- ERG under heading 5. |
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ISO 17840-3:2019(E)

Table B.6 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/meaning/Referent</th>
<th>Function/description</th>
<th>Level of importance</th>
<th>Colours</th>
<th>Reference</th>
<th>To be used in/on</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Image" /></td>
<td>Gas line (H₂)</td>
<td>To indicate a gas line for hydrogen by using a defined colour.</td>
<td>1</td>
<td>Light blue, RGB: 0,176,240</td>
<td>ISO 17840-1</td>
<td>— Rescue sheet illustration; — ERG under heading 5.</td>
<td>Pictogram can be adjusted to represent the actual shape and line path.</td>
</tr>
<tr>
<td><img src="image2" alt="Image" /></td>
<td>Air-conditioning line</td>
<td>To indicate an air-conditioning line by using a defined colour. Type of coolant or name shall be mentioned (e.g., CO₂, fluor-carbon based chemistry).</td>
<td>1</td>
<td>Purple, RGB: 204,0,204</td>
<td>ISO 17840-1</td>
<td>— Rescue sheet illustration; — ERG under heading 5.</td>
<td>Pictogram can be adjusted to represent the actual shape and line path.</td>
</tr>
</tbody>
</table>
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Table B.7 — Pictograms related to fire fighting and safety

| Pictogram | Title/meaning/Referent: General warning sign  
Function/description: To signify a general warning.  
Level of importance: 1  
Colours:  
— Yellow, RGB: 243,200,54  
— Black  
Reference: ISO 7010-W001  
To be used in/on:  
— Rescue sheet secondary pages under heading where necessary;  
— ERG under heading where necessary. |
|---|---|
| ![Pictogram](image1.png) | Title/meaning/Referent: Warning, electricity  
Function/description: To warn of electricity and dangerous voltage.  
Level of importance: 1  
Colours:  
— Yellow, RGB: 243,200,54  
— Black  
Reference: ISO 7010-W012  
To be used in/on:  
— Rescue sheet secondary pages under heading where necessary;  
— ERG under heading where necessary. |
| ![Pictogram](image2.png) | Title/meaning/Referent: Warning; low temperature  
Function/description: To indicate the dangers concerning low temperatures, e.g. frost bites due to cold gas (e.g. LNG, air-conditioning gas)  
Level of importance: 1  
Colours:  
— Yellow, RGB: 243,200,54  
— Black  
Reference: ISO 7010-W010  
To be used in/on:  
— Rescue sheet secondary pages under headings 5, 6, 8;  
— ERG under headings 5, 6, 8, 9. |
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Table B.7 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/meaning/referent: Attention; hydrogen burns with an almost invisible flame</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>Function/description: To indicate the danger of almost invisible hydrogen flames.</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>Level of importance: 1</td>
</tr>
<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>Colours:</td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>— Light blue, RGB: 0,176,240</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>— Black</td>
</tr>
<tr>
<td><img src="image6.png" alt="Image" /></td>
<td>— White</td>
</tr>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>— Grey</td>
</tr>
<tr>
<td><img src="image8.png" alt="Image" /></td>
<td>Reference: —</td>
</tr>
<tr>
<td><img src="image9.png" alt="Image" /></td>
<td>To be used in/on:</td>
</tr>
<tr>
<td><img src="image10.png" alt="Image" /></td>
<td>— Rescue sheet secondary pages under heading 6;</td>
</tr>
<tr>
<td><img src="image11.png" alt="Image" /></td>
<td>— ERG under heading 6.</td>
</tr>
</tbody>
</table>

Title/meaning/referent: Use thermal infrared camera
Function/description: To indicate that a thermal infrared camera should be used to detect a fire.
Level of importance: 2
Colours:
— Black
— White
Reference:
— IEC 60878
— Application of IEC 60417-5116
— Application of IEC 60417-6151
— Application of ISO 14617-13-2807
To be used in/on:
— Rescue sheet secondary pages under heading 6;
— ERG under heading 6.
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### ISO 17840-3:2019(E)

**Table B.7 (continued)**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Designation and remarks</th>
</tr>
</thead>
</table>
| ![Dry Foam Pictogram](image) | **Title/meaning/referent:** Use dry foam to extinguish the fire  
**function/description:** To indicate that dry foam shall be used to extinguish the fire.  
System in which a foam concentrate and air are continuously added under pressure to the water being discharged from a fire-fighting pump (CAFS).  
Dry foam operation is defined by a nominal foam solution/air volume ratio greater than 1:10, being mixed in the CAFS.  
**Level of importance:** 1  
**Colours:**  
- Blue, RGB: 0,83,135  
- White  
**Reference:** Application of ISO 7000-3309  
**To be used in/on:**  
- Rescue sheet secondary pages under heading 6.  
- ERG under heading 6. |
| ![ABC Powder Pictogram](image) | **Title/meaning/referent:** Use ABC powder to extinguish the fire  
**function/description:** To indicate that ABC powder shall be used to extinguish the fire.  
**Level of importance:** 1  
**Colours:**  
- Blue RGB: 0,83,135  
- White  
**Reference:**  
- ISO 7202;  
- Application of ISO 7000-2820;  
- Application of ISO 7000-3309.  
**To be used in/on:**  
- Rescue sheet secondary pages under heading 6.  
- ERG under heading 6. |

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### Table B.8 (continued)

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Title/ Meaning/ Referent: Oxidizer</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Pictogram]</td>
<td>Function/ description: To indicate the risk of oxidizing material/substances.</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>Level of importance: 1</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>Colours:</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>— Red RGB: 255,0,0</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>— Black</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>— White</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>Reference: GHS</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>To be used in/on:</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>— Rescue sheet secondary pages under headings 5, 6, 8,</td>
</tr>
<tr>
<td>![Pictogram]</td>
<td>— ERG under headings 5, 6, 8, 9,</td>
</tr>
</tbody>
</table>

| ![Pictogram] | Title/ Meaning/ Referent: Corrosives |
| ![Pictogram] | Function/ description: To indicate the risk of corrosive material/substances. |
| ![Pictogram] | Level of importance: 1 |
| ![Pictogram] | Colours: |
| ![Pictogram] | — Red RGB: 255,0,0 |
| ![Pictogram] | — Black |
| ![Pictogram] | — White |
| ![Pictogram] | Reference: GHS |
| ![Pictogram] | To be used in/on: |
| ![Pictogram] | — Rescue sheet illustration; |
| ![Pictogram] | — Rescue sheet secondary pages under headings 5, 6, 8, |
| ![Pictogram] | — ERG under headings 5, 6, 8, 9, |
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