Battery electric vehicle system - Service instruction - Rescue sheet

⚠ WARNING

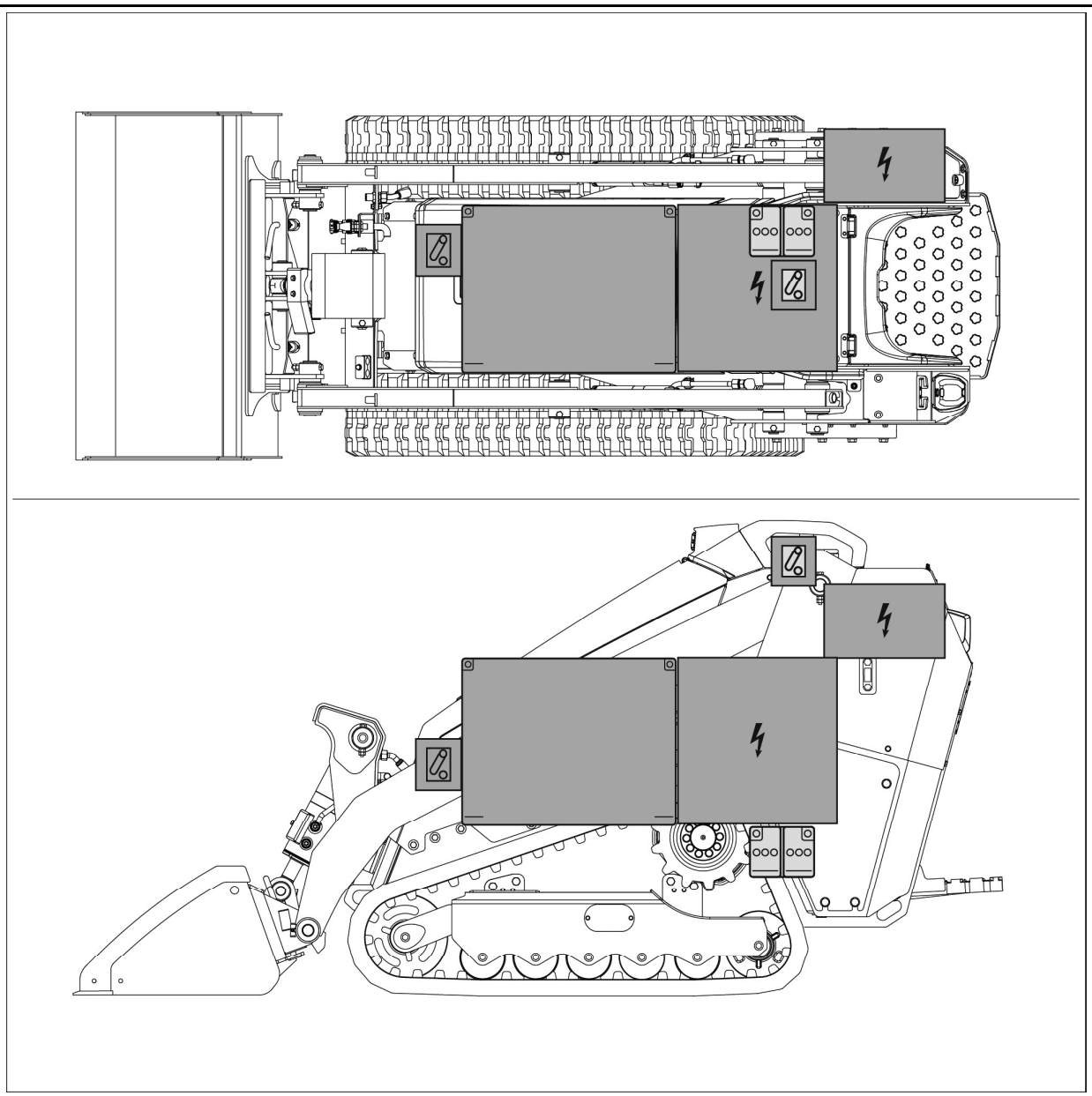
Fire hazard!
In case of battery damage, there is a risk of undetected flames. Place the damaged vehicle or battery under surveillance in a dedicated safe location to prevent the ignition or re-ignition of a fire.
Failure to comply could result in death or serious injury.

W1705A

⚠ WARNING

Fire hazard!
If the vehicle is submerged completely, the high-voltage battery can generate flammable hydrogen gas. When sea water enters the battery compartment, the battery can generate a large amount of flammable hydrogen gas quickly by rapid electrolysis due to salinity. A fire could result.
Failure to comply could result in death or serious injury.

W1706A



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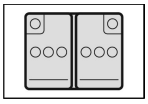
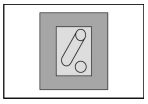
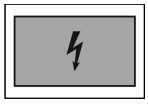
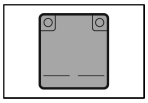
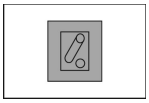
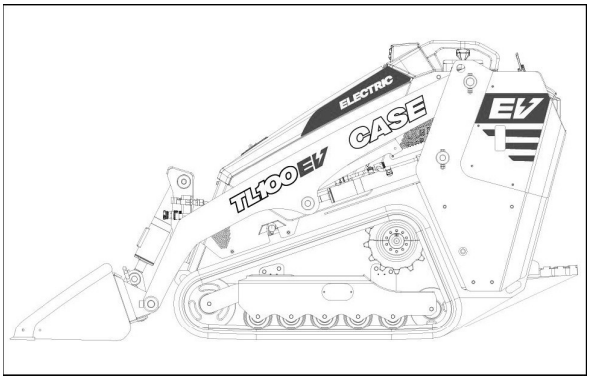
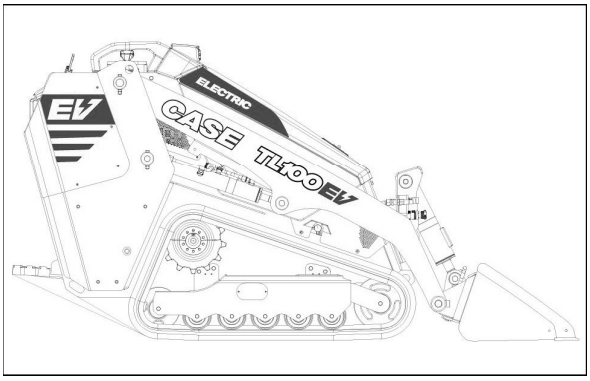
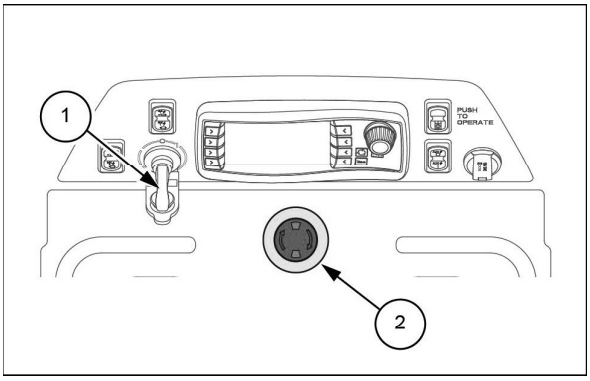
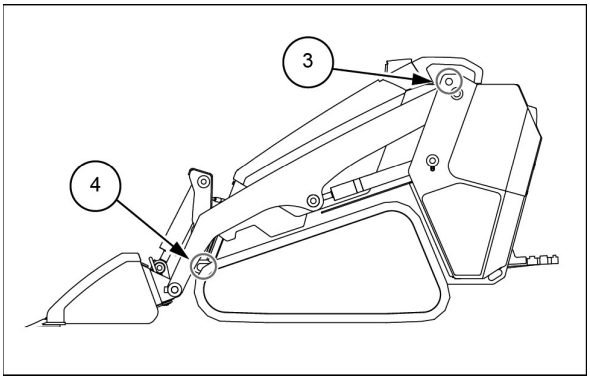
	Low voltage battery		Low voltage switch that disconnects the high voltage		High voltage component
	High voltage battery		High-voltage switch that disconnects the high voltage		

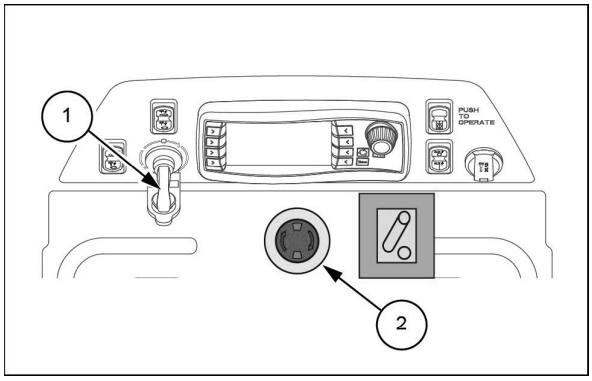
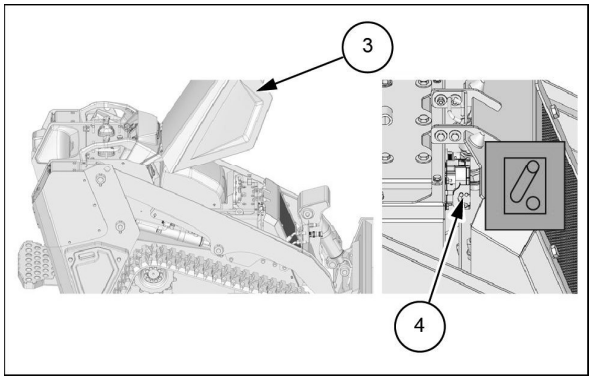
1 – Identification/recognition

 SMIL25MTL0159AA 2	CASE TL100EV Electric Left-hand side badging
 SMIL25MTL0160AA 3	CASE TL100EV Electric Right-hand badging

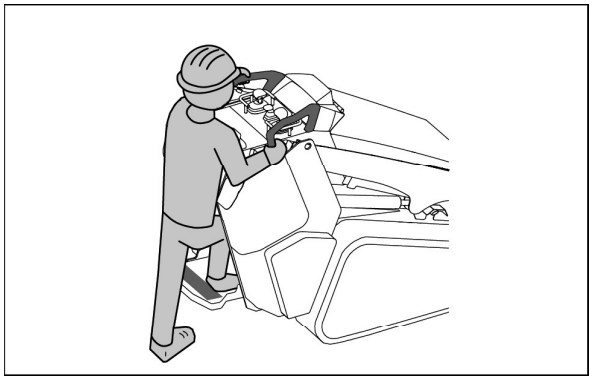
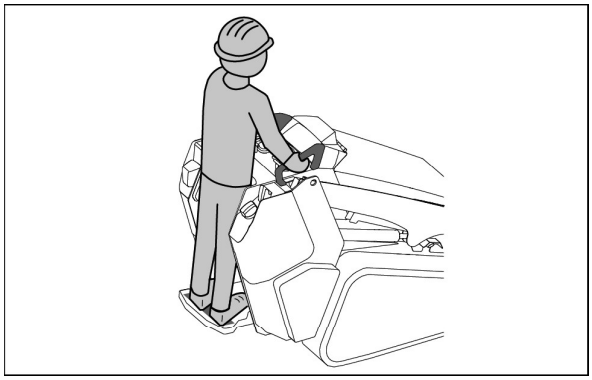
2 – Immobilization/stabilization/lifting

 SMIL25MTL0163AB 4	• Lower the bucket to the ground. • Turn the key **(1)** counter-clockwise. • Press the emergency stop button **(2)**. • The parking brake is activated automatically.
 SMIL25MTL0164AB 5	• The four lifting points **(3)** and **(4)** are located on both sides of the vehicle: two next to the control levers and two in the lower front part of the frame.

3 – Deactivation of direct danger/safety rules

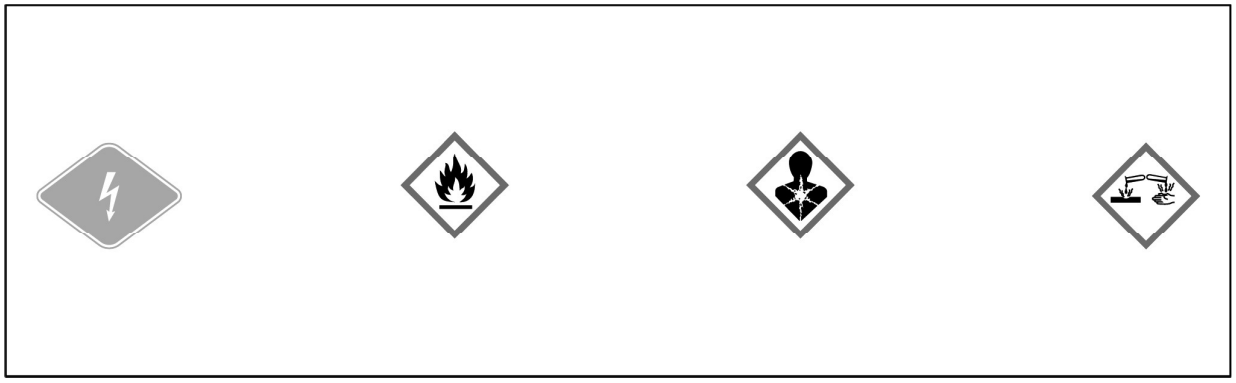
 SMIL25MTL0165AB 6	• Stop the machine: turn the key **(1)** anti-clockwise. • Press the emergency stop button **(2)**. • The battery is disconnected. ***NOTE:*** *Wait **2 min** to make sure that there is no residual voltage in the system.*
 SMIL25MTL0166A 7	• Open the hood **(3)**. • Remove the high-voltage switch **(4)**. • After this operation, the battery is divided into two separate modules, each with **52 V**.

4 – Occupant access

 SMIL25MTL0167AA 8	Operator access to the operator's footboard.
 SMIL25MTL0168AA 9	Longitudinal adjustment of the operator seat Operator at the workstation.

5 – Storage of energy/fluids/gases/solids

Li-ion – LiFePO4 Battery		Hydraulic oil	
Rated voltage	**104 V** DC	Type	ISO46
Rated energy	23.5 kWh	Quantity	**25 L** (**6.60 US gal**)



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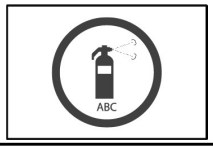
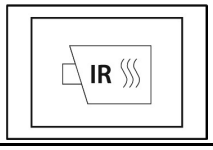
ATTENTION: *All high voltage cables have an orange coating: DO NOT TOUCH.*

6 – In the event of a fire

	Use water H2O to cool the heat source.
	Use an ABC, CO2 or class D extinguisher in the event of a fire.
	It is highly recommended to monitor the temperature of the battery pack using an infrared camera.

ATTENTION: *In the event of battery damage, there is a risk of an undetected flame. In this case, it is necessary to place the damaged vehicle or battery under surveillance in a safe and dedicated location to prevent the ignition or re-ignition of a fire.*

7 – In the event of submersion

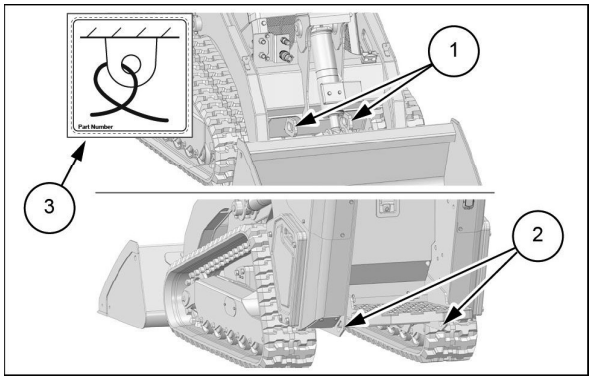
If the vehicle is submerged or partially submerged, pull the vehicle out of the water.
Then deactivate the high voltage system.

ATTENTION: *If the vehicle is completely submerged, the high voltage battery can generate flammable hydrogen gas.*

ATTENTION: *When sea water enters, a large amount of hydrogen gas can be generated by rapid electrolysis due to salinity, which can cause fire and hydrogen gas.*

ATTENTION: *Do not touch the electrical parts. Risk of severe injuries and electric shock.*

8 – Pulling/transport/storage



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- When pulling, the operator MUST NOT be on the towed machine.
- Attach a pulling device to one of the tow hitches on the frame on the front side **(1)** or rear side **(2)**; the hitches are indicated by special labels **(3)**.
- DO NOT use other anchorage points (e.g.boom, bucket or any accessory installed).

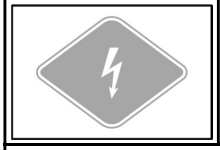
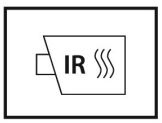
NOTICE: *NEVER continue pulling unless both tracks are fully in contact with the ground.*

NOTICE: *Do not cut, break or touch the high voltage components or cables.*

9 – Important additional information

Not available

10 – Explanation of pictograms used

	Electric vehicle		Dangerous for human health		Flammable
	Corrosive		Use ABC powder, CO2 or a class D extinguisher to extinguish the fire		Use water to cool the heat source
	Warning: generic danger		Warning: high voltage electricity		Use the infrared camera