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TRANSPORTATION INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 03.220.20

R 16

Record No.:

JT/T 1011-2015

**Routine inspection methods
for battery electric vehicle**

纯电动汽车日常检查方法

Issued on: September 23, 2014

Implemented on: January 1, 2016

Issued by: Ministry of Transport of PRC

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Routine inspection methods for battery electric vehicle

1 Scope

This Standard specifies the operational safety and technical requirements of routine inspection for battery electric vehicle.

This Standard is applicable to battery electric vehicle.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 18344, *Specification for the inspection and maintenance of motor vehicle*

GB/T 19596, *Terminology of electric vehicles*

GB/T 19751, *Hybrid electric vehicles safety specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions defined in GB/T 19596 apply.

4 Operational safety

4.1 When performing high-voltage circuit maintenance, the maintenance area is isolated by the isolation bar, and the warning sign is hung.

4.2 Personnel performing high voltage circuit maintenance shall be qualified by professional training.

4.3 When performing high voltage circuit maintenance or high voltage system insulation test, disconnect the high voltage circuit and connect it after the operation is completed.

	capacitor bank	Cooling system	1) Check fan working conditions; 2) Check inlet hose conditions and fixing; 3) Clean dustproof net.	1) The fan shall work normally, no aging or damage; 2) The case inlet hose shall have no breaking, dents, the clamp shall be firm; 3) The dustproof net shall be clean, without impurities.
		Pre-heat system	1) Check working conditions; 2) Check appearance.	1) The pre-heat system shall work normally; 2) The surface shall be clean, dry, intact, no damage.
		Management system	1) Check the fixing of module plugin; 2) Check the system working conditions.	1) The module plugin shall be firmly plugged in, no corrosion; 2) The data display of management system shall be normal.
4	Low voltage electrical control system	Low voltage electrical controller	1) Check working conditions; 2) Check the fixing; 3) Clean with air gun or brush.	1) The controller shall work normally; 2) The controller shall be connected as specified, firmly installed; 3) The radiator, wire plug shall be clean, dry.
		Cooling fan	1) Check the connection of wiring; 2) Check the fixing; 3) Clean the appearance.	1) The wiring plugin shall be well connected; 2) The fan body shall be firm; 3) The surface of fan shall maintain clean.
5	High voltage electrical control system	Drive motor	1) Clean the appearance; 2) Check the wiring connection; 3) Check the fixing; 4) Check the working conditions; 5) Check the cooling system.	1) The motor surface shall be clean, dry; 2) The wiring plugin shall be well connected; 3) The motor installation brackets and shock cushion shall be intact, firm; 4) When the motor is working, there shall be no abnormal vibration or noise; 5) The motor cooling system shall work normally, no leakage, with sufficient coolant.
		Generator	1) Clean the appearance; 2) Check the wiring connection; 3) Check the fixing; 4) Check the working conditions;	1) The generator surface shall be clean, dry; 2) The wiring plugin shall be well connected;

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