



BYD Battery-Box LV User Manual

Battery-Box L 3.5/7.0/10.5/14.0

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1 General Information

1.1 Validity

This user manual applies to the Battery-Box L 3.5, Battery-Box L 7.0, Battery-Box L 10.5 and Battery-Box L 14.0.

1.2 Application

This user manual introduces the BYD Battery-Box LV product information, using guidance, safety, common issues and actions.

The BYD Battery-Box LV is an energy storage unit that can only be used in On-grid system/On-grid and Backup system for residential application.

1.3 Intended use

The BYD Battery-Box LV series products are not suitable for supplying life-sustaining medical devices. A power outage must not lead to personal injury.

Use this product only in accordance with the information provided in the enclosed documentation and with the locally applicable standards and directives. Any other application may cause personal injury or property damage.

The illustrations in this manual meant only to help explain system configuration concepts, includes using guidance, safety caution and normal failure and actions.

Alterations to the product, e.g. changes or modifications, are only permitted with the express written permission of BYD. Unauthorized alterations will void warranty claims. BYD shall not be held liable for any damage caused by such changes. Any use of the product other than that described in the Intended use section does not qualify as appropriate. The enclosed documentation is an integral part of this product. Keep the documentation in a convenient place for future reference and observe all instructions contained therein. The type label must be attached to the product.

BYD Battery-Box LV series products must work with compatible inverters which are listed in the “compatible inverter list” in this manual.

Please login to our official website and contact our after service provider, if user wants to stop using this product permanently.

The Battery-Box LV system can be installed at altitudes of up to 2000m above Mean Sea Level.

1.4 Definition

Battery-Box L 3.5~14.0 are defined as below:

BYD Battery-Box LV: Low-voltage household energy storage battery system.

BYD B-Plus L: Battery module. Battery module provides energy, and sends the information about the cell voltage and cell temperature in the battery module to the upper-layer BCU. The usable capacity of battery is 3.5kWh.

BCU: The battery management and control unit, which is connected with battery and inverter.

1.5 Identifying the product

The type label describes the product identification, which is attached on the product. For safe usage, the user must be well-informed of the contents in the type label. The type label includes:

Model No.:

Max. Current:

Usable Energy:

Nominal Voltage:

Voltage Range

Operating Temperature:

2 Safety

This section contains safety information that must be observed at all times when working on or with batteries. To prevent personal injury or property damage and to ensure long-term operation of the batteries, read this section carefully and observe all safety information at all times.



WARNING

Environmental requirement

Do not expose the battery to temperature above 50°C.

Do not place the battery near any heat sources.

Do not expose the battery to moisture or liquids.

Do not expose the battery to direct sunlight for extended periods of time

Place battery in secure location away from children and animals.

Do not allow the battery power terminals to touch conductive objects such as wires.

Operation caution

Do not disassemble the battery.

Do not touch the battery pack with wet hands.

Do not crush, drop or puncture the battery.

Always dispose according to local safety regulations.

Store and recharge battery according to user manual strictly.

Ensure reliable grounding.

Do not reverse polarity

Do not short circuit the terminals, remove all jewelry items that could product a short circuit.

Disconnect battery from power and load, then power off battery before installation and maintenance.

Do not stack up batteries without package.

The packed batteries are not allowed to be stacked up more than specified layers stipulated on the package.

Continuous operation on a damaged battery can result in dangerous situation that may cause severe injury due to electrical shock.

3 Technical Data

Model	Battery-Box L 3.5	Battery-Box L 7.0	Battery-Box L 10.5	Battery-Box L 14.0
Battery Module	B-Plus L 3.5 (3.5kWh)			
	1 module	2 modules	3 modules	4 modules
Usable Energy¹ [kWh]	3.5	7.0	10.5	14.0
Max Output Power [kW]	3.0	6.0	9.0	10.0
Peak Output Power [kW]	5.0, 10s	10.0, 10s	15.0, 10s	15.0, 10s
Round-Trip Efficiency	≥95.3% (Under test condition [1])			
Nominal Voltage [V]	51.2			
Operating Voltage Range [V]	40~ 59.2			
Communication	CAN / RS485			
Dimension [W × H × D ,mm]	620 × 475 × 380	620 × 711 × 380	620 × 947 × 380	620 × 1183 × 380
Net Weight [kg]	65	108	151	194
Enclosure Protection Rating	IP55			
Warranty	10 years			
Ambient Temperature Range² [°C]	-10~ +50			
Certification planning	VDE2510/TUV(IEC62619) / CE / RCM / UN38.3 / Sicherheitsleitfaden Li-Ionen-Hausspeicher			
Scalability	Max. 3 systems in parallel			
Compatible Inverters	SMA / GOODWE / Victron / Sungrow, more brands will be announced			
Application	On grid/ On grid + Backup			

When BYD Battery-Box LV work in different temperatures, the current of charge and discharge will be adjusted automatically, battery will permit lower current when operating temperature gets lower. Please refer to below table for detail parameters setting:

Parameter setting of discharging current in various temperatures

Protect temp. (°C)	Max Current (A)			
	One module	Two modules	Three modules	four modules
-10~15	50	100	150	200
15~35	60	120	180	200
35~50	50	100	150	200

Remark: The discharging current adjustment takes about 2 minutes.

¹ Test conditions: 100% DOD, 0.2C charge & discharge @ +25°C

² -10°C~10°C to be derated

* System Usable Energy may be variant with different inverter brands

Discharging current in backup mode				
Protect temp. (°C)	Max Current (A)			
	One module	Two modules	Three modules	four modules
-10~50	40	80	120	160

Remark: The discharging current adjustment takes about 2 minutes.

Parameter setting of charging current in various temperatures				
Temp. Range (°C)	Max Current (A)			
	One module	Two modules	Three modules	four modules
-10~0	15	30	45	60
0~10	20	40	60	80
10~50	40	80	120	160

Remark: The charging current adjustment takes about 2 minutes.

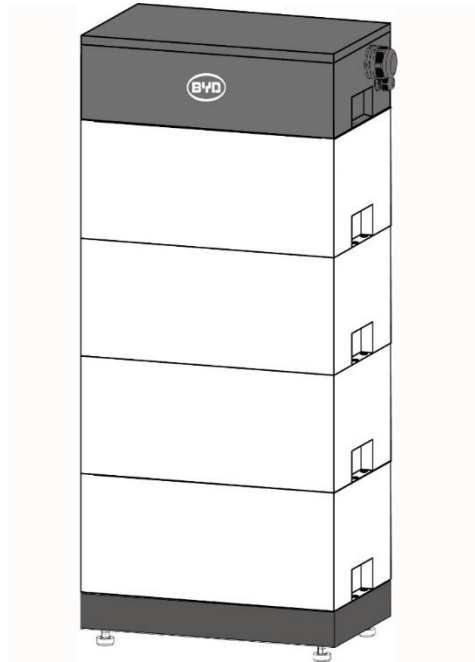
4 Technical Terms

No.	Terms	Comment
1	Discharge	Battery output power for load
2	Charge	To put electricity into battery by charger
3	Full charged	Battery had been full charged, SOC is 100%.
4	Idle	Ready for charging and discharging
5	Shutdown mode	Power off
6	SOC	State of Charge
7	SW	Software
8	HW	Hardware
9	Battery voltage	The voltage between B+/B-
10	Pack voltage	The voltage between P+/P-
11	Cell voltage	Single cell voltage
12	Failure	Battery or BMS is broken, need to be replaced
13	Alarm	Indicate that the battery is in abnormal status
14	Protect	Battery stops charging or discharging and is recoverable.
15	Over discharged	Battery is lack of electricity, and needs to be recharged in time.

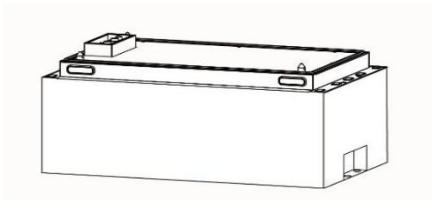
5 Product Overview

5.1 Brief introduction

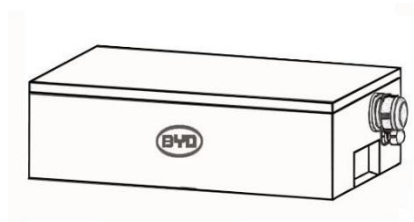
The BYD Battery-Box LV energy storage system, combined with high-performance BYD lithium battery, consists of base, B-Plus L and BCU. Each BCU can manage at most 4 battery modules, and the usable energy can be extended easily from 3.5kWh to 42kWh by 3 sets of Battery-Box connected in parallel.



Product overview



B-Plus L 3.5



BCU



Base

5.2 BYD Battery-Box LV configuration table

No.	Type	BCU	B-Plus L 3.5	Base	Energy(kWh)	Voltage(V)
1	Battery-Box L 3.5	1	1	1	3.5	51.2
2	Battery-Box L 7.0	1	2	1	7.0	51.2
3	Battery-Box L 10.5	1	3	1	10.5	51.2
4	Battery-Box L 14.0	1	4	1	14.0	51.2

5.3 BCU introduction

BCU is the management unit of the energy storage system. Its function is to manage the battery' s charge and discharge, and collect information from battery and report to inverter.

5.3.1 BCU interface introduction

Position	Designation	Terminals on the right
A	ON/OFF button	
B	Nylon cable gland for P+ P- & Grounding cables	
C	Nylon cable gland for WIFI cable, CAN cables of Inverter and BCU	

5.3.2 Battery status indicated by different LED

The battery status will be indicated by the switch button LED, please refer to the following table for details.

Status of the Battery	LED status
1 ON	White LED is always on
2 OFF	Orange LED flash periodically/ Orange LED off
3 Charge	White LED flash slowly
4 Discharge	White LED flash quickly
5 Low capacity	White LED flash extremely slow
6 Failure	Orange LED is always on

6 Cleaning and Maintenance

6.1 Cleaning

CAUTION:

When user needs to clean the BYD Battery-Box LV, please power off the system first.

The BYD Battery-Box LV system is recommended to be cleaned periodically. If the enclosure is dirty, please use a soft , dry brush or a soot blower to remove the dust. Liquids such as solvents, abrasives or corrosive liquids are not allowed to clean the enclosure.

6.2 Maintenance

6.2.1 Recharge requirement with normal storage

Batteries should be stored in position with the temperature range of $-20^{\circ}\text{C} \sim +45^{\circ}\text{C}$, and maintained regularly according to the following table with 0.5C (35A) current for 1 hour after a long time of storage.

Recharge condition when batteries are in storage

Storage environment temperature($^{\circ}\text{C}$)	Relative humidity of storage environment	Storage time	SOC
Below -20	/	prohibit	/
-20~25	5%~70%	≤ 12 months	$30\% \leq \text{SOC} \leq 60\%$
25~35	5%~70%	≤ 6 months	$30\% \leq \text{SOC} \leq 60\%$
35~45	5%~70%	≤ 3 months	$30\% \leq \text{SOC} \leq 60\%$
Above 45	/	prohibit	/

6.2.2 Recharge requirement when over discharged

Please recharge the over discharged batteries in time according to the following table, otherwise the over discharged ones will be damaged.

Recharge condition when batteries are over discharged

Storage environment temperature($^{\circ}\text{C}$)	Storage time
-20~25	≤ 15 days
25~45	≤ 7 days

7 Compatible Inverter List

To make sure that the system can works normally, please use BYD compatible inverter and select battery quantity correctly based on the "Configuration List of BYD Battery-Box LV with Different Inverters" in Appendix 1 in this user manual.

8 Common Issues and Solutions

8.1 Common issues of BYD Battery-Box LV and solutions

Issue description	Possible causes	Solution
Contacting disconnected	<ol style="list-style-type: none"> 1. Battery high voltage 2. Battery low voltage 3. Battery high temperature 4. Battery over current 5. Other hardware failures. 	Please contact our after-service provider immediately.

User also can monitor the running status of battery, warning and alarm information from App or LED display of inverter. Detailed information please refer to Appendix 2 in this user manual.

8.2 Emergency

Please cut off the power supply and turn off the battery in emergency.

9 Warranty

BYD provides warranty when the product is installed and used according to the description of User Manual /Installation Manual / Warranty Letter.

1. Please contact your installation company, if you have any technical problems or inquiries of usage.
2. Please contact after service provider if you have any after service requirements.
3. Please download the Warranty Letter via BYD official website.

10 Registration

Please complete the registration³ via the corresponding link below within 3 months since the installation date.

	Location	Website
1	Australia	www.alpspower.com.au
2	Europe	http://www.eft-systems.de/de/login

If you have any questions during the usage, please contact our local contacts.

Appendix 1: Configuration List of BYD Battery-Box LV with Different Inverters

1 Minimum configuration with SMA Sunny Island inverter

Inverter Firmware version: minimum required firmware version for SI is V1.73.

BYD Battery-Box LV firmware version: minimum required firmware version for BCU is V1.0.

1 Phase on grid (Self consumption)		
Inverter Type	B-Plus L 3.5	BCU
SI 3.0M	≥1	≥1
SI 4.4M	≥1	≥1
SI 6.0H	≥1	≥1
SI 8.0H	≥1	≥1

3 Phase on grid (Self consumption)		
Inverter Type	B-Plus L 3.5	BCU

³ BYD will not ask for your personal information unless we truly need it, and we only disclose personally information to those of its employees, or affiliated organizations that need to know that information in order to process it on behalf of BYD, or to provide timely services.

SI 3.0M	≥2	≥1
SI 4.4M	≥3	≥1
SI 6.0H	≥3	≥1
SI 8.0H	≥3	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
SI 3.0M	≥2	≥1
SI 4.4M	≥3	≥1
SI 6.0H	≥4	≥1
SI 8.0H	≥4	≥1

3 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
SI 3.0M	≥5	≥2
SI 4.4M	≥6	≥2
SI 6.0H	≥10	≥3
SI 8.0H	≥11	≥3

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

2 Minimum configuration with GOODWE inverter

2.1 Minimum configuration with ES

Inverter Firmware version: minimum required firmware version for ARM is 03.

BYD Battery-Box LV firmware version: minimum required firmware version for BCU is V1.0.

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
GW3648D-ES	≥1	≥1
GW5048D-ES	≥1	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
GW3648D-ES	≥2	≥1
GW5048D-ES	≥3	≥1

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.

2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

2.2 Minimum configuration with EM

Inverter Firmware version: minimum required firmware version for ARM is 03.

BYD Battery-Box LV firmware version: minimum required firmware version for BCU is V1.0.

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
GW3048-EM	≥1	≥1
GW3648-EM	≥1	≥1
GW5048-EM	≥1	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
GW3048-EM	≥1	≥1
GW3648-EM	≥1	≥1
GW5048-EM	≥1	≥1

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

2.3 Minimum configuration with SBP

Inverter Firmware version: minimum required firmware version for ARM is 03.

BYD Battery Box LV firmware version: minimum required firmware version for BCU is V1.0

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
GW3600S-BP	≥1	≥1
GW5000S-BP	≥1	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
GW3600S-BP	≥2	≥1
GW5000S-BP	≥3	≥1

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

3 Minimum configuration with Victron inverter

3.1 Minimum configuration with Multiplus

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, which applies to ESS mode.

BYD Battery-Box LV firmware version: minimum required firmware version for BCU is V1.0, which applies to ESS mode.

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥1	≥1
48/5000/70	≥1	≥1

3 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥2	≥1
48/5000/70	≥2	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥2	≥1
48/5000/70	≥4	≥1

3 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥6	≥2
48/5000/70	≥10	≥3

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

3.2 Minimum configuration with Multigrid

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, which applies to ESS mode.

BYD Battery- Box LV firmware version: minimum required firmware version for BCU is V1.0, which applies to ESS mode.

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥1	≥1

3 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥2	≥1

1 Phase on grid (Self consumption+ Backup)		
Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥2	≥1
3 Phase on grid (Self consumption+ Backup)		
Inverter Type	B-Plus L 3.5	BCU
48/3000/35	≥6	≥2

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the Discharging current in backup mode in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

3.3 Minimum configuration with Quattro

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, which applies to ESS mode.

BYD Battery- Box LV firmware version: minimum required firmware version for BCU is V1.0, which applies to ESS mode.

1 Phase on grid (Self consumption)		
Inverter Type	B-Plus L 3.5	BCU
48/5000/70-100/100	≥1	≥1
48/8000/110-100/100	≥1	≥1
48/10000/140- 100/100	≥1	≥1
48/15000/200- 100/100	≥1	≥1
3 Phase on grid (Self consumption)		
Inverter Type	B-Plus L 3.5	BCU
48/5000/70-100/100	≥2	≥1
48/8000/110-100/100	≥3	≥1
48/10000/140- 100/100	≥4	≥2
48/15000/200- 100/100	≥5	≥2
1 Phase on grid (Self consumption+ Backup)		
Inverter Type	B-Plus L 3.5	BCU
48/5000/70-100/100	≥4	≥1
48/8000/110-100/100	≥5	≥2
48/10000/140- 100/100	≥7	≥2
48/15000/200- 100/100	≥10	≥3
3 Phase on grid (Self consumption+ Backup)		
Inverter Type	B-Plus L 3.5	BCU

48/5000/70-100/100	≥10	≥3
48/8000/110-100/100 ⁴	/	/
48/10000/140- 100/100	/	/
48/15000/200- 100/100	/	/

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.
2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

3.4 Minimum configuration with CCGX of Easysolar

Inverter Firmware version: minimum required firmware version for CCGX is V2.01, which applies to ESS mode.

BYD Battery-Box LV firmware version: minimum required firmware version for BCU is V1.0, which applies to ESS mode.

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35-50 MPPT150/70	≥1	≥1
48/5000/70-100 MPPT150/100	≥1	≥1

3 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35-50 MPPT150/70	≥2	≥1
48/5000/70-100 MPPT150/100	≥2	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35-50 MPPT150/70	≥2	≥1
48/5000/70-100 MPPT150/100	≥4	≥1

3 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
48/3000/35-50 MPPT150/70	≥6	≥2
48/5000/70-100 MPPT150/100	≥10	≥3

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.

*The configuration in back up mode is calculated based on the max back up power of inverter, and the loads power shouldn't be more than the battery max power. The efficiency ratio between the loads and inverter should be considered.

2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

4 Minimum configuration with SUNGROW

4.1 Minimum configuration with SH5K

Inverter Firmware version: minimum required firmware version is V13.

BYD Battery Box LV firmware version: minimum required firmware version for BCU is V1.0.

Identification label on package is V1.0

1 Phase on grid (Self consumption)

Inverter Type	B-Plus L 3.5	BCU
SH5K	≥1	≥1

1 Phase on grid (Self consumption+ Backup)

Inverter Type	B-Plus L 3.5	BCU
SH5K	≥3	≥1

Remark:

1. Maximum quantity of B-Plus L 3.5 is 12, BCU quantity is 3.

2. Please refer to the *Discharging current in backup mode* in page 6, and make sure the discharging current in backup mode won't be more than the specified value.

Appendix 2: Common Failures Displayed on Inverter and Solution

1 Alarm code displayed on the SRC of SMA sunny island and solution

SMA SRC	Possible causes	Solution
F221	External Alarm-Invalid Bat Type	Reset battery type to "Li" on SRC.
F920(XA01General)	1.AnyB-Plus L3.5 has failed to communicate with the BCU;	1. Check if the modules are connected correctly and all screws are fixed tightly. 2.Replace BCU ;
F921(XA02DcHiVolt)	External Alarm - Battery High Voltage	If the orange LED of the BCU is on, please contact the service provider to change the battery. If not, check the system setting according to the guidelines.
F922(XA03DcLoVolt)	External Alarm - Battery Low Voltage	System will recovery automatically
F923(XA04DcHiTmp)	External Alarm - Battery High Temp	System will recovery automatically
F924(XA05DcLoTmp)	External Alarm - Battery Low Temp	System will recovery automatically
F925(XA06DcHiTmpC)	External Alarm - Battery High Temp Charge	System will recovery automatically
F926(XA07DcLoTmpC)	External Alarm - Battery Low Temp Charge	System will recovery automatically
F927(XA08DcHiCur)	External Alarm - Battery High Current Discharge	System will recovery automatically
F928(XA09DcHiChgCur)	External Alarm - Battery High Current Charge	System will recovery automatically
F930(XA11Short)	External Alarm - Short circuit	1.Power off; 2.Check if batteries are short connected; 3.If short connection is confirmed, then reconnect cables correctly, and restart battery;

F931(XA12Bms)	External Alarm - BCU internal	If the orange LED of the BCU is lit, please contact the service provider to replace the battery. If not, check the system settings according to the guidelines.
F932(XA13CellBal)	External Alarm - Cell imbalance	System will recovery automatically
F952	External Alarm -Ext BCU Timeout	1.Check if the CAN communication cables are connected correctly and tightly ; 2.Replace BCU if the problem still exist after checking;

2 Alarm displayed on the APP of GOODWE and the solution

APP of GOODWE	Possible causes	Solution
BMS status: Battery communication fail	Inverter and BCU communication failure	1.Check if the CAN communication cables are connected correctly and tightly ; 2.Replace BCU if the problem still exist after checking ;

Contact Information

China

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