Shenzhen TROY Intelligent Trading Ltd.

Artificial Intelligent Humanoid Robot

Operation Manual



Robot Emma: AI-CR04-T001

MSDS

Material safety Data Sheet

16P

Table of Contents

Table of Contents 1
一、 Overall Structure and Specification 3
Figure-1: AI-CR03-T001(Emma the intelligent robot No. 001) 3
Figure-2: CR03 Main specifications (Third generation) 5
二、 Product Main Features 5
(一) Standardization, modularization and integration of key mechanical& electrical structure 6
1. Main electronic interface 6
Figure-3： A.I.Tech Main electronic interface of main board 6
2. Main mechanical interface: connectors 7
Figure-4： A.I.Tech Main mechanical interface 7
3. Support remote upgrade 7
(二) Multiple protection, safety and intelligence 7
Figure-5： DC intelligent temperature control system 8
(三) Soft and elastic skin 8
Figure-6：Modified TPE material（M-TPE） 9
三、 Main Components 10
(一) Head 10
1. Electromechanical structure assembly 10
Figure-7：Head assembly 10
2. Eye module 10
Figure-8：Eye module assembly 10
3. Other application extensions 11
Figure-9：The main interface of other applications 11
(二) Body 11
1. Body Structure and Joints 11
Fig-10：body metal skeleton structure 12
2. Position of touch sensor (shown in blue circle) 12
Fig.-11：Position of touch sensor 12
3. Touch Sensor and heating Device 12
Fig-12：Touch Sensor and heating Device(Chinese & English voice) 13
Fig-13：Touch Sensor and heating Device(Chinese & English voice) 13
四、 Product installation instructions 13
(一) Body Gesture Adjustment 13
Fig-14：body gesture adjustment 14
(二) Procedure for connecting head and body 14

1. Installation of butt screw and clamp shaft 14
Fig-15-1：Installation diagram for neck bolt(Third generation) 15
Fig-15-2：The fourth generation 15
2. How to make the butt nut and snap ring fit 15
Fig-16-1：Schematic diagram of nut adjustment（Third generation） 15
Fig-16-2： Fourth generation 16
3. How to connect the head and body 16
Fig-17：Diagram for head and body connection (Third generation) 16
Fig-18：Diagram for head and body connection (Four generation) 17
五、 Product Operation 18
(一) Host Boot 18
Fig-19：host boot screen（Left: third generation/Right: Fourth generation) 18
Fig-20： schematic for system startup completed 18
Fig-21： Robot head WIFI setting 19
Fig-22：Schematic diagram when network succeed 20
Figure-23：Mobile hotspot connects steps 21
(二) command words 22
Figure-24：command words about language shifting 22
1. voice control 23
2. Sleeping wake up or restart 23
figure-25：Robot head DC charge 24
Touch sensor switch 24
Figure-26：touch sensor system position/turn on turn off figure 25
(三) Body heating system starter 25
Figure-27：heating port (inside the red box) and heating cable 26
六、 Product Maintenance 27
(一) Precautions 27
(二) Maintenance 28

一、Overall Structure and Specification

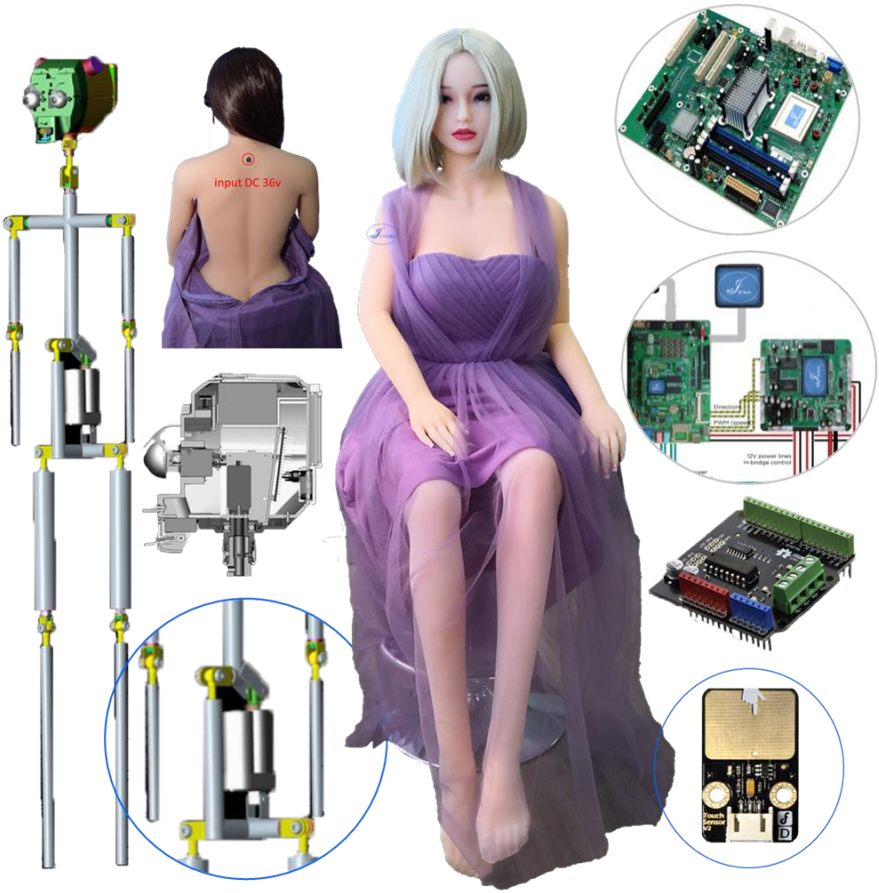


Figure-1: AI-CR03-T001(Emma the intelligent robot No. 001)

Product Main Features (Third generation)		
Name: Emma		Model：AI-CQ03-T001

Features	1. Language: Chinese / English 2. Built-in touch sensors moan response according to excitement during touch sensors. 3. Special modified M-TPE polymer material simulation features, skin, etc.		4. Simulation of human body temperature 5. Independent research and development database, supporting a variety of Chinese dialects 6. Free to communicate, tell stories, sing. Emma's eyelids can blink, her eyeball , head and mouth also can move when she talks. the most important , she has an expression when talking with you.	
Parameters				
Charging Voltage	DC 15V		Skeleton	304 stainless steel
Heating Voltage	Input: AC85V-265V→output DC36V		Skin Color	Normal/White/Tanned
Material	M-TPE / Food grade		Eyes color	Black/Blue/Green
Height	148-168cm		Vagina Type	Fixed/Movable
Weight	34.80KG		Customization	Head, wig, fingernail

Special flight case



Special sofa box



Packing Size：156cm*42cm*40cm	Gross weight：60KG
Product size：148～168cm	Net weight：34KG
Accessories: ◎ wig ◎ clothing ◎ comb ◎ charger for heating ◎ charger for robot head ◎ USB cable for moaning sound	

Figure-2: CR03 Main specifications (Third generation)

二、Product Main Features

Emma the High intelligent sex robot was self-developed by Shenzhen All Intelligent Technology Co., Ltd. (referred to as A.I.Tech). Based on the Internet network and Android operating system, Emma is a sophisticated and stable A.I. product of high simulation and multi-functions, as well as China's first high intelligent and high simulation sex robot.

Main Technologies:

- ✧ Computer hardware development and mechanical& electrical integration design
- ✧ Research and development of intelligent database
- ✧ Semantic understanding and analysis system
- ✧ Application software development based on operation system
- ✧ High polymer material research on high simulation skin
- ✧ Aesthetic and Art

（一）Standardization, modularization and integration of key mechanical& electrical structure

It’s the first success in integrating Internet technology, voice interactive system, sensing technology and mechanical& electrical integration technology into the robot head and make all the electronic interfaces and mechanical interfaces of standardized design. The robot is not only of the normative structure, but also highly optimized for general use, so its technical docking is available with almost all other related products.

1. Main electronic interface



Figure-3： A.I.Tech Main electronic interface of main board

2. Main mechanical interface: connectors

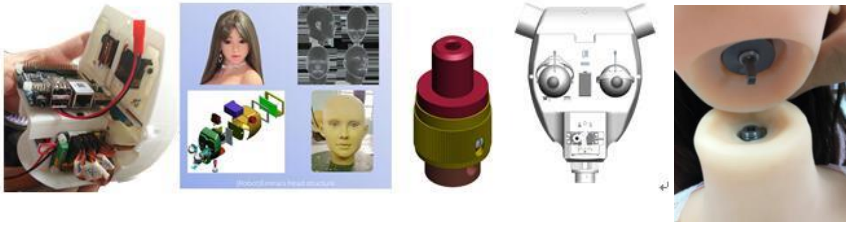


Figure-4： A.I.Tech Main mechanical interface

3. Support remote upgrade

We integrated and optimized the networking mode. In addition to supporting 4G and WIFI, we also have communication modes such as Bluetooth, and can be automatically upgraded remotely.

- ✧ High degree of intelligence, simple operation
- ✧ Data transmission through Internet
- ✧ Remote upgrading and integration

（二）Multiple protection, safety and intelligence

We not only use the safe isolation measures such as the current isolation transformer, low-voltage DC heating, low-voltage intelligent temperature control, but also the temperature can be adjusted in the range of 25-42°C (external temperature 37°C), which fundamentally solves the electric shock, fire and explosion and other security issues.



Figure-5： DC intelligent temperature control system

（三）Soft and elastic skin

A.I.Tech uses a self-modifying M-TPE new material that is not easy to tear, safer, more reliable, more stable, and more comfortable and delicate.



Figure-6：Modified TPE material（M-TPE）

三、Main Components

（一）Head

1. Electromechanical structure assembly

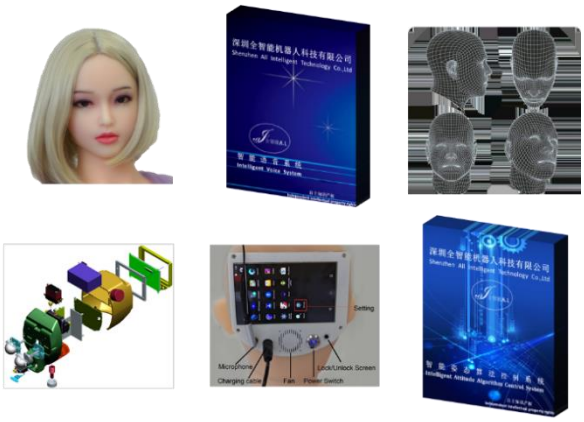


Figure-7：Head assembly

2. Eye module

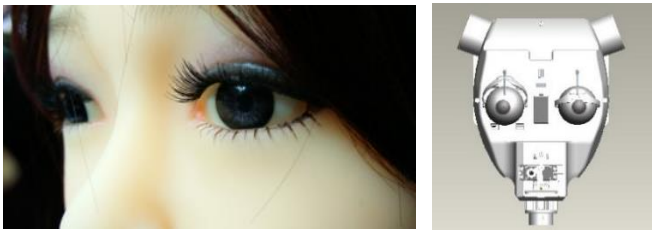


Figure-8：Eye module assembly

3. Other application extensions

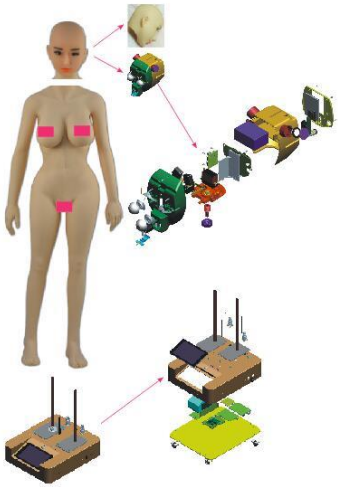


Figure-9：The main interface of other applications

（二）Body

1. Body Structure and Joints





Fig-10：body metal skeleton structure

2. Position of touch sensor (shown in blue circle)

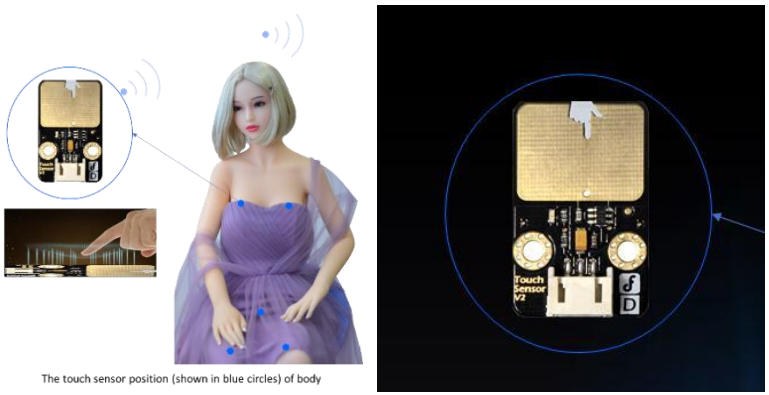


Fig.-11：Position of touch sensor

3. Touch Sensor and heating Device

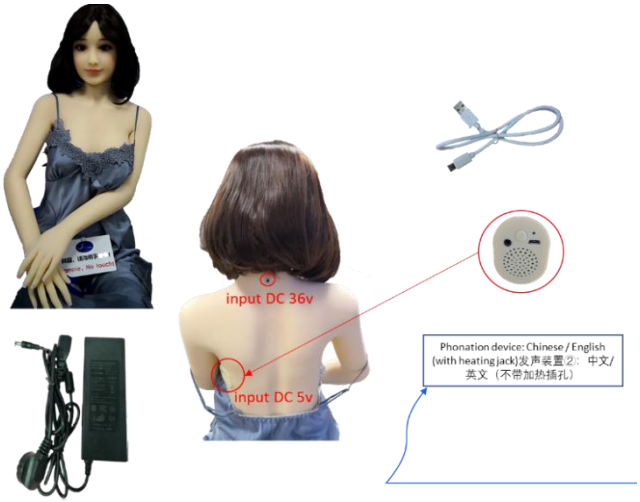


Fig-12：Touch Sensor and heating Device(Chinese & English voice)

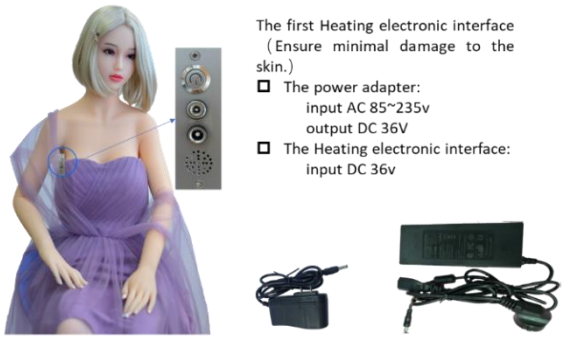
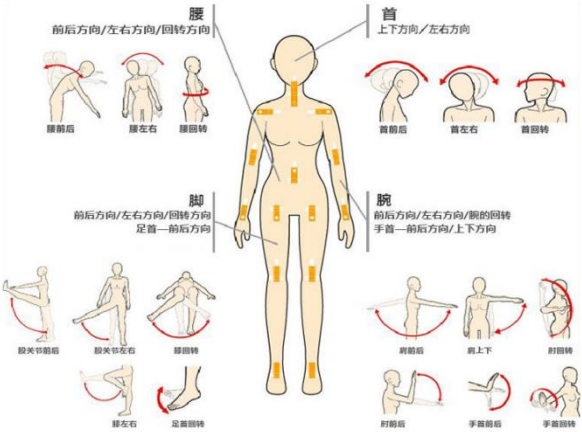


Fig-13：Touch Sensor and heating Device(Chinese & English voice)

四、Product installation instructions

（一）Body Gesture Adjustment



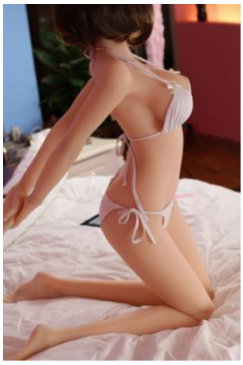




Fig-14：body gesture adjustment

（二） Procedure for connecting head and body

1. Installation of butt screw and clamp shaft

Tighten the neck bolt with square hole into the neck, the bolt will be about 5mm over the neck hole, with the square hole exactly facing towards you. （Third generation ）

If it is fourth generation,no additional installation is required. and please find “Fig-15-2：” for your reference.

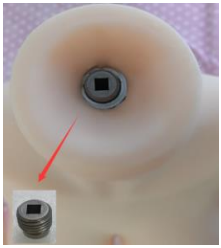


Fig-15-1：Installation diagram for neck bolt(Third generation)

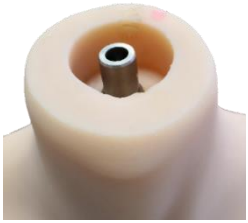


Fig-15-2：The fourth generation

2．How to make the butt nut and snap ring fit

✧ Rotating the nut and keeps the threaded end face with the square shaft screw on the same plane (Third generation)



Fig-16-1：Schematic diagram of nut adjustment（Third generation）

✧ If the shaft is card linker, to be ensure that the groove of copper pin snap ring is in front of the face which is in one line with the nose (Fourth generation).

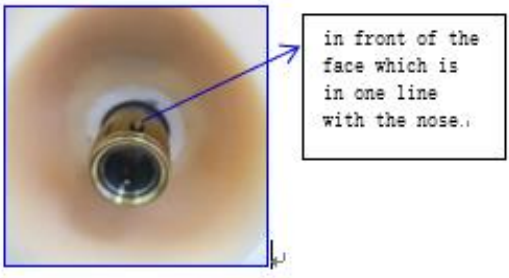


Fig-16-2： Fourth generation

3. How to connect the head and body

a. Align the square shaft into the square hole of the neck bolt. The robot head is exactly facing towards you. Pay extra attention that

during head installation to prevent head falling! (For third generation)




Fig-17：Diagram for head and body connection (Third generation)

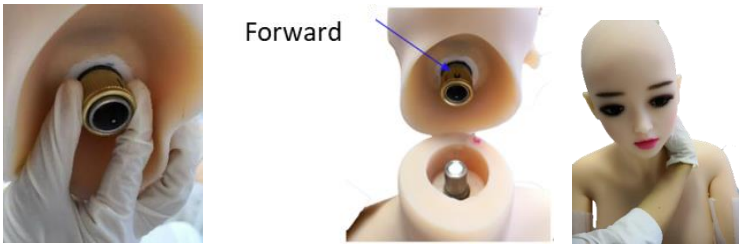


Fig-18：Diagram for head and body connection (Four generation)

Hold it gently with your hand to ensure that the square shaft has fallen completely into the bottom of the square hole, so that the head bolt clings to neck bolt closely on the surface. Then insert your hand from the neck-head seam and clockwise the nut and continue to clockwise the nut for self-locking to ensure the stability (For third generation).

Rotating the groove on the copper ring indicated by the blue arrow to the front, then put the head straight, and put the copper ring hole on the axis of the neck. Using the index finger and thumb to reach inside the neck. Pull the copper ring up slightly and press the top of the head gently to put the connector in place. At this point, using the index finger and thumb to gently rotate the copper ring (about plus or minus 15 degrees), the neck is successfully connected when you hear the "click" voice. Instead, to remove the head, stick your index finger and thumb into the neck, pull the brass ring up slightly, and lift the head slightly. (if you still have questions, please contact our service staff directly, they will provide more detailed information and video to you) (For fourth generation)

五、Product Operation

（一）Host Boot

✧ Pressing the power switch (press to the end and then release Because of the use of anti-mis-operation switch). Power indicator and the screen will light up and all motors stay in the initial location. It takes about one minute for system to start and then all motors start to move. Note: Do not power off during the boot system startup process!



Fig-19：host boot screen（Left: third generation/Right: Fourth generation)

a. It takes about one minute for completing the start of system



Fig-20： schematic for system startup completed

✧ The first boot prompts WIFI configuration. Configuration steps: click main menu →setting →WIFI →open the WIFI switch → select the corresponding WIFI in the list →input password →save and connect.

b.

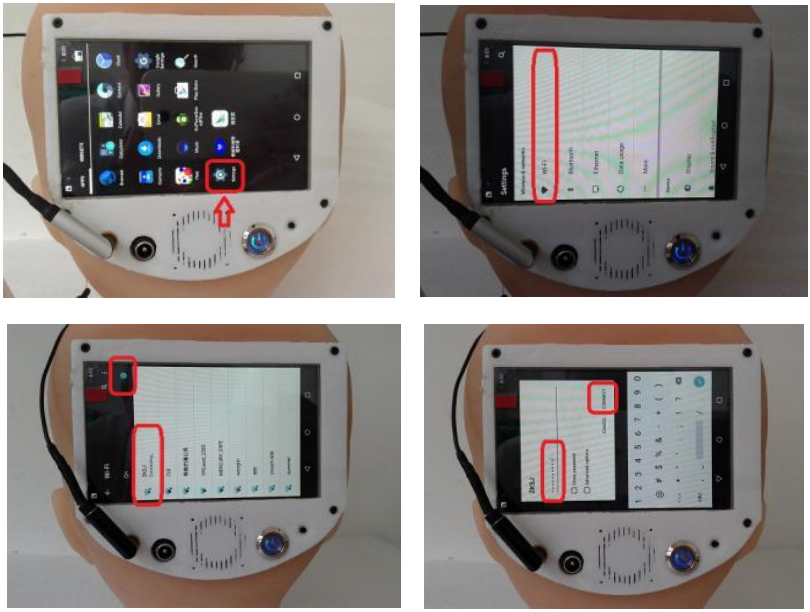


Fig-21： Robot head WIFI setting

✧ Once connected with WIFI successfully, the system will have the access to the cloud database. Emma begins its self - introduction: "My Chinese name is Feifei, and my English name is Emma, I come from Shenzhen All Intelligent Technology."



Fig-22：Schematic diagram when network succeed

- The first conversation needs to wake up, wake up words as follows:

  ①菲菲你好！ ② Hi Emma ！ ③ Emma Emma！

  - Using one of the above wake up words to wake it up and then start communicating with the robot. Be noted that the robot need to wake up again if no conversations for more than 5 minutes.
  - Dormant for a long time (if no conversations for more than 12 hours), if can't wake it up by voice, you can restart.

- If there is no WIFI available, you can use portable hotspot to share your mobile network with the robot.

①For android mobile phone



②For Apple mobile phone



Figure-23：Mobile hotspot connects steps

（二）command words

- ✧ voice system：mandarin， English，dialect（northeast dialect，Sichuan dialect，Cantonese，Shanxi dialect），translate mode.
- ✧ Shift from English to Chinese ：Please speak Chinese，Speak Chinese
- ✧ Shift from Chinese to English： Speak English，Please speak English
- ✧ Shift from Mandarin to translation：translation
- ✧ Shift from translation to Mandarin：speak mandarin
- ✧ Shift from English to translations：Translation，Translate
- ✧ Shift from translation to English：Speak English，Please speak English



Figure-24：command words about language shifting

- ✧ Shift from Mandarin to Cantonese：Cantonese
- ✧ Shift from Mandarin to Sichuan dialect：Sichuan dialect
- ✧ Shift from Mandarin to northeast dialect：northeast dialect

- ✧ Shift from Mandarin to Shanxi dialect：Shanxi dialect
- ✧ Shift from Mandarin to Children's voices.：Children's voices.
- ✧ Shift from Dialect to Mandarin: please speak Mandarin, speak Mandarin
- ✧ Request it to sing a son : sing a song
- ✧ Request it to stop singing : stop

1．voice control

- ✧ The volume is adjusted by voice, any of the following commands can be adjusted.

  Lower, please! Louder, please!

  Speak lowly! Speak loudly!





2．Sleeping wake up or restart

- ✧ The robot also needs to sleep, it will automatically enter sleeping mode if it cannot hear the human being voice more than 5 minutes.
- ✧ Order to enter sleeping mode: Emma, you go to rest.
- ✧ All the facial expressions will stop when enter sleeping mode.

- ✧ You can wake up the robot to rework by below words:： ① Hello ,Emma! ② Hi Emma! ③Emma Emma!
- ✧ Note: you can restart the robot if you cannot wake up after a long-time sleeping mode

- ✧ **The robot head charge**

Note: please make sure the robot head is power off when charge.

- ✧ The charge is AC100—240V to DC15V
- ✧ The light is red when charge
- ✧ The light turns green when full of charge(around 2hours)





figure-25：Robot head DC charge

Touch sensor switch

Press the touch sensor switch button, the system will start in about 30 seconds. Then touch or squeeze gently the sensors in the blue circle

position (Shows in Figure 26: touch sensor position), you can trigger the touch sensor system.

Note: It is recommended to turn off the system when not in use.

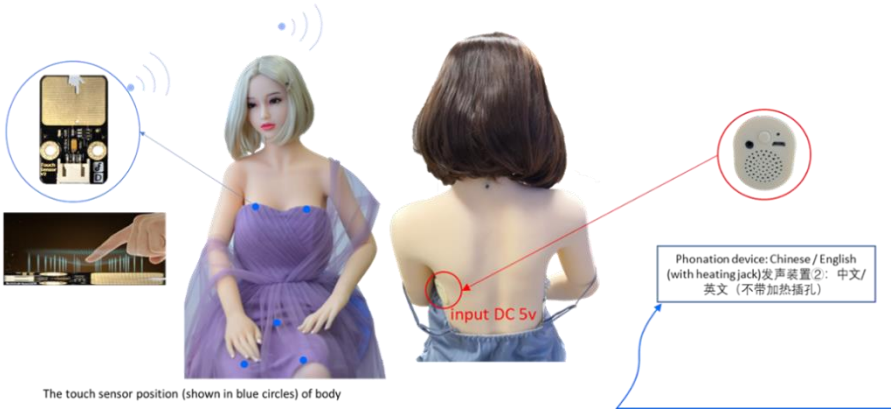


Figure-26：touch sensor system position/turn on turn off figure

（三）Body heating system starter

After connecting the power adapter cable, connect the two sides to the heating port and the power socket at the back of the neck. The heating time is one to two hours according to the ambient temperature，when the external temperature reaches 37 degrees Celsius, the heating is stopped automatically and the heat preservation start. Since the heating wire is en-wind around the skeleton, the skin thickness is different of the full body so the temperature in the body part is also different. Although a safe low temperature DC48V is used and isolated heating, it is not recommended for use during heating.

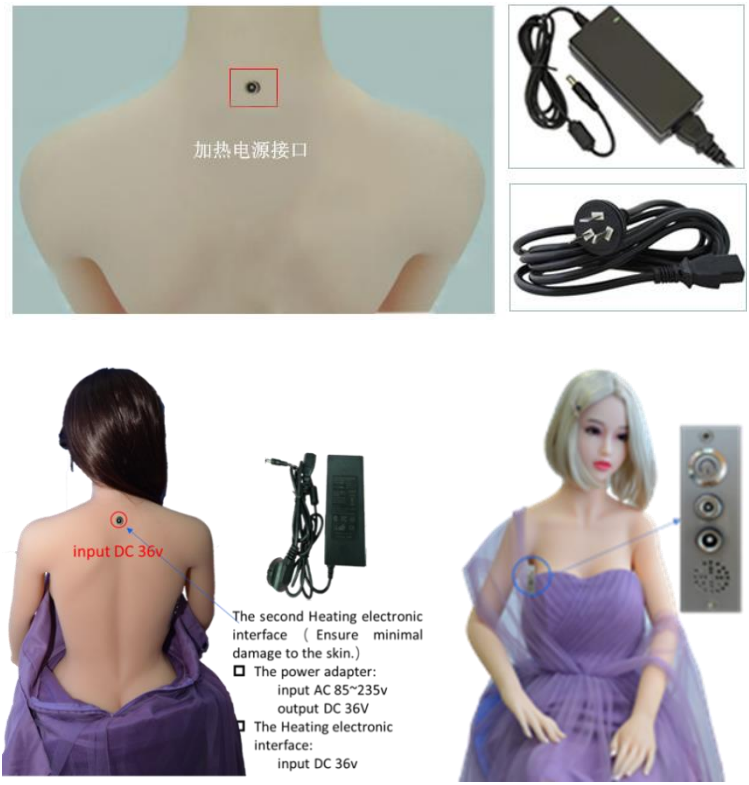


Figure-27：heating port (inside the red box) and heating cable

六、Product Maintenance

（一） Precautions

1. Powder her at least once a week to make sure the skin is clean and dry.
2. Avoid sharp objects to cut or puncture the sex robot and do not squeeze hard to avoid damage to the surface skin.
3. Don’t dress it in clothes which are easy faded or with poor coloring technology. White color or light color clothes is suggested. Please test any dark color clothes to avoid any stain to the doll skin, you can test the new clothes with some private part of the doll or finger or inner thigh. If its body is dyed, please use remove cream in 24 hours. (If you do not follow the instructions and cause pollution, you are responsible for it! Manufacturers can provide purchase guides and online shop links for remove color pastes.)
4. Avoid long time sunlight exposure which could cause material aging and decrease its life span.
5. Please use water-based lubricant when having sex with your sex robot to prevent tearing, don’t be too violent on the doll. Silicone or petroleum-based lubes can damage your doll’s skin. Although the skeleton is of the best material, but it is best not to use violently, so as to avoid unnecessary losses and trouble.

（二）Maintenance

1. (How to treat the indentation?) If the surface of the robot is indented for a long time, use a hot towel to heat the part for a while.

2. Dust and dirt may be cleaned with normal washing detergent, dish washer, mild soap or foam bath. Please flush the vagina and anus gently and repeatedly with douching apparatus provided. Don't directly flush the fixed vagina with running water under faucet. Take great care of the head, neck seam and optional heating port and touch sensor device on its back when cleaning. Let it air dry, and then use talcum or cornstarch powder to make up the whole doll to keep her skin soft and velvety after it is dry. If the doll has oil after storage of long time, you can have a foam bath with the doll and repeat the procedure. You'd better clean the doll every 10 days.

3. (What to do if a crack/crack find in her?) If there is a small area of damage on the surface of her, it can be glued with the glue. Clean the damaged surface and return the rubber to the original position. Apply a layer of glue evenly and wait for about half an hour to dry. If other technical issues can contact the seller or the company, we will give you technical support.

4. If there is any tear, cut or poke, please clean defected area completely before gluing. Make sure defected surface is clean and in its original condition when coating TPE glue evenly (don't use too much glue), it will be sewed after approximately half hour. The repairing glue is harmless to human body. It can melt the both skin broken sides and then re-integration, so it won't affect its beauty.

Please don't use glue again when the broken areas haven't integrated. You should wipe it with cleaning water before glue re-coating.

5. (What to do when she dyes?) TPE remove cream. It is highly efficient, convenient, non-toxic and safe which can remove local dyeing in a short time. Below are the instructions:

   1) According to the dyeing degree, take appropriate amount of remove cream with a cotton swab and evenly smear on the stained areas.

   2) It will naturally fade, repeated wiping every 4 hours until completely removed. A small dyeing area will be generally completely Faded within 24 hours; severe dyeing generally 3-4 days to remove

   3) Warmth tip: This product contains a slight mint smell, but it's non-toxic and safe for your use.

---The End---