

# **SportsArt**FITNESS

## C575U Repair Manual (Electronics)



1-1. Product Picture -C575U

**SportsArt**<sub>FITNESS</sub>

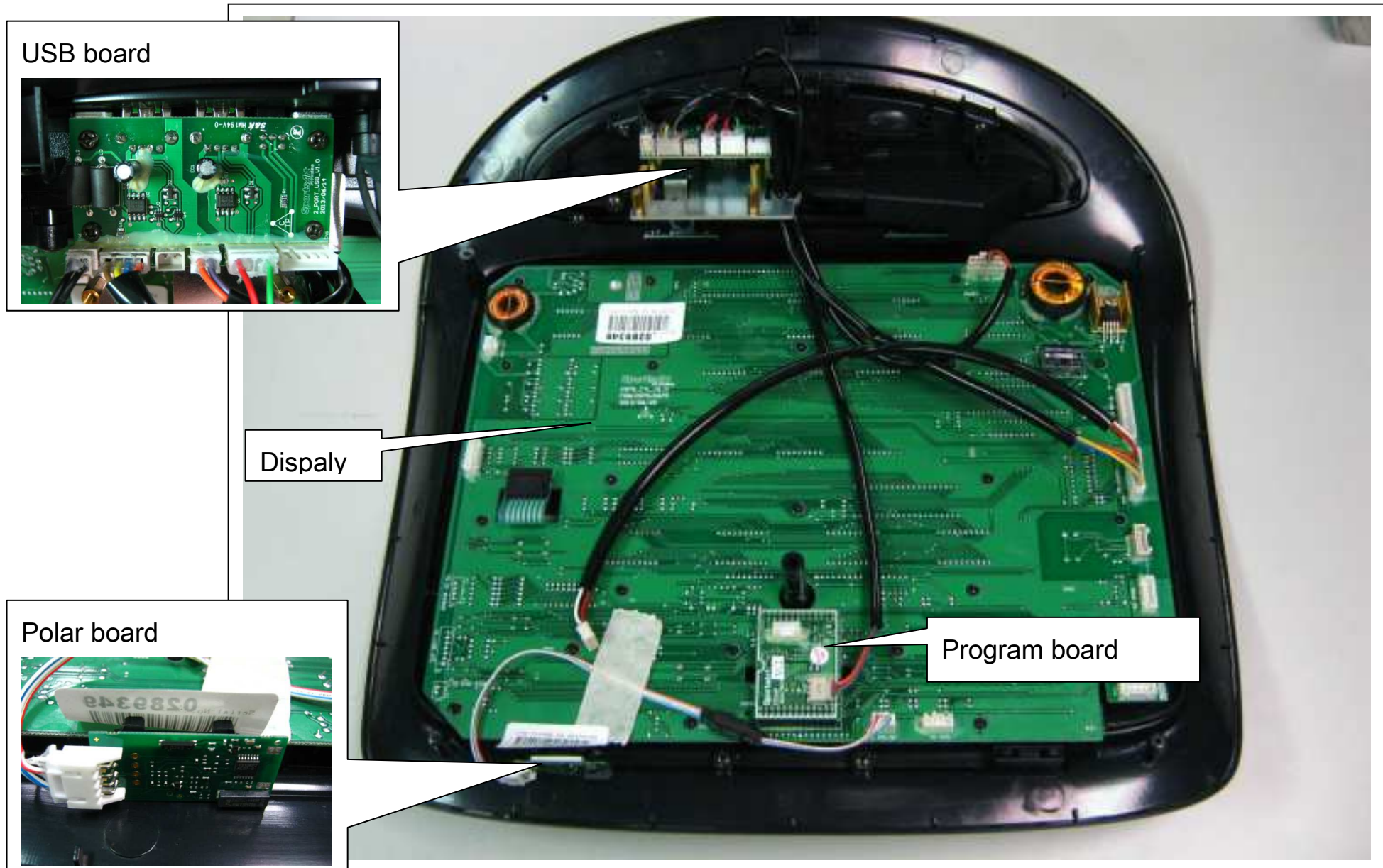


## 1-2. Display picture -C575U

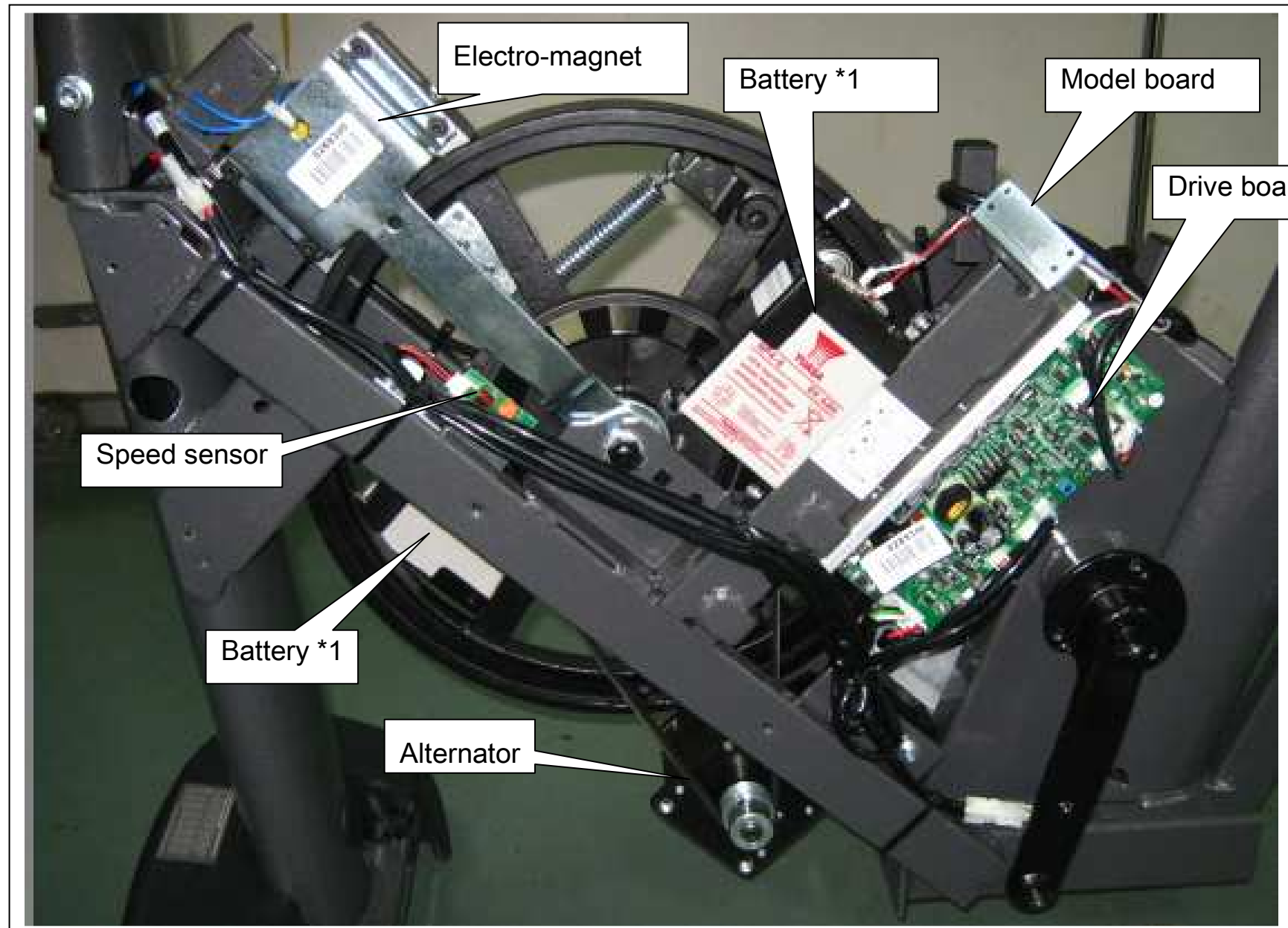
**SportsArt**<sub>FITNESS</sub>



## 1-3. Component Placement - C575U Display

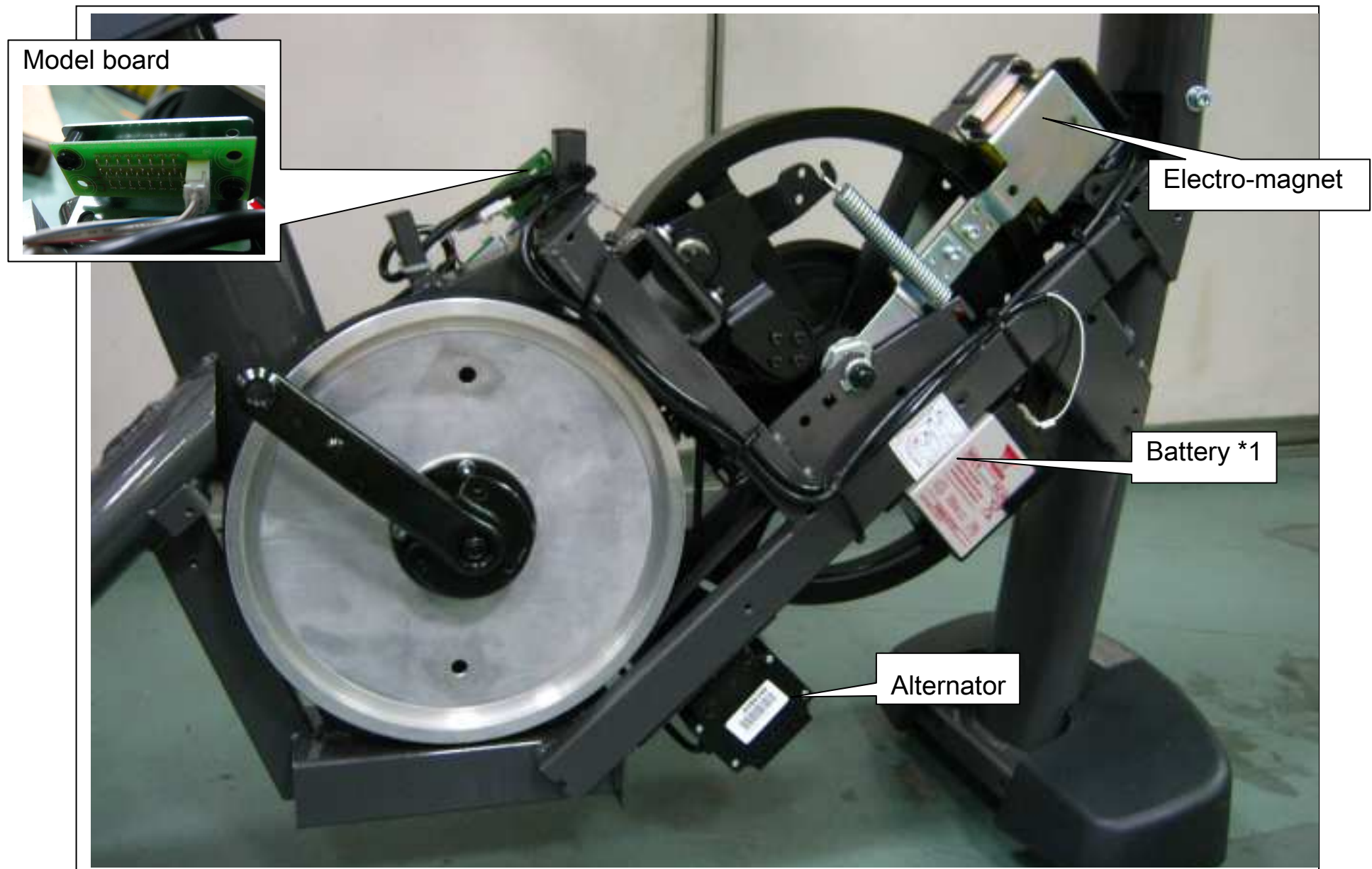


1-3.Component placement- C575U lower body

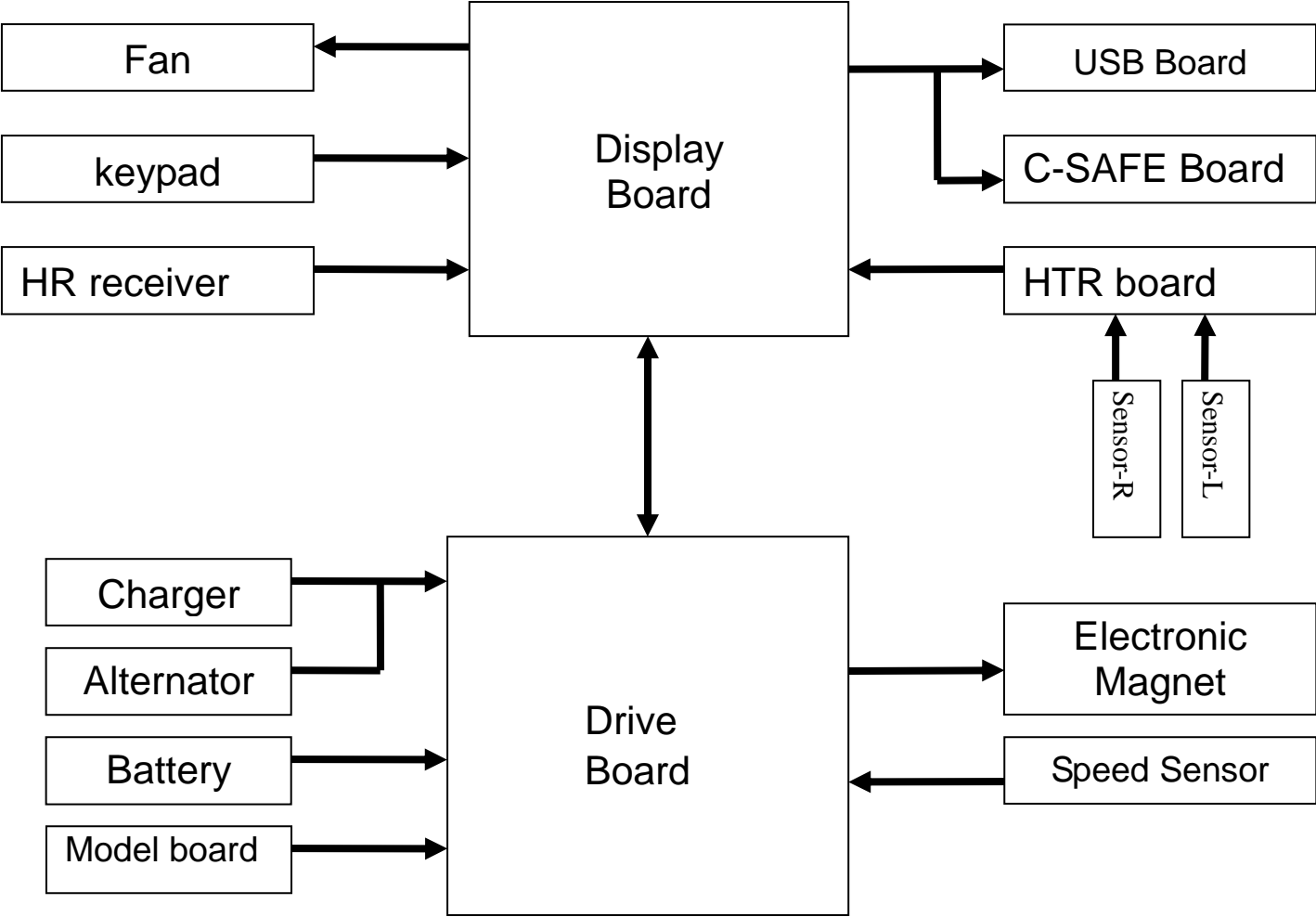




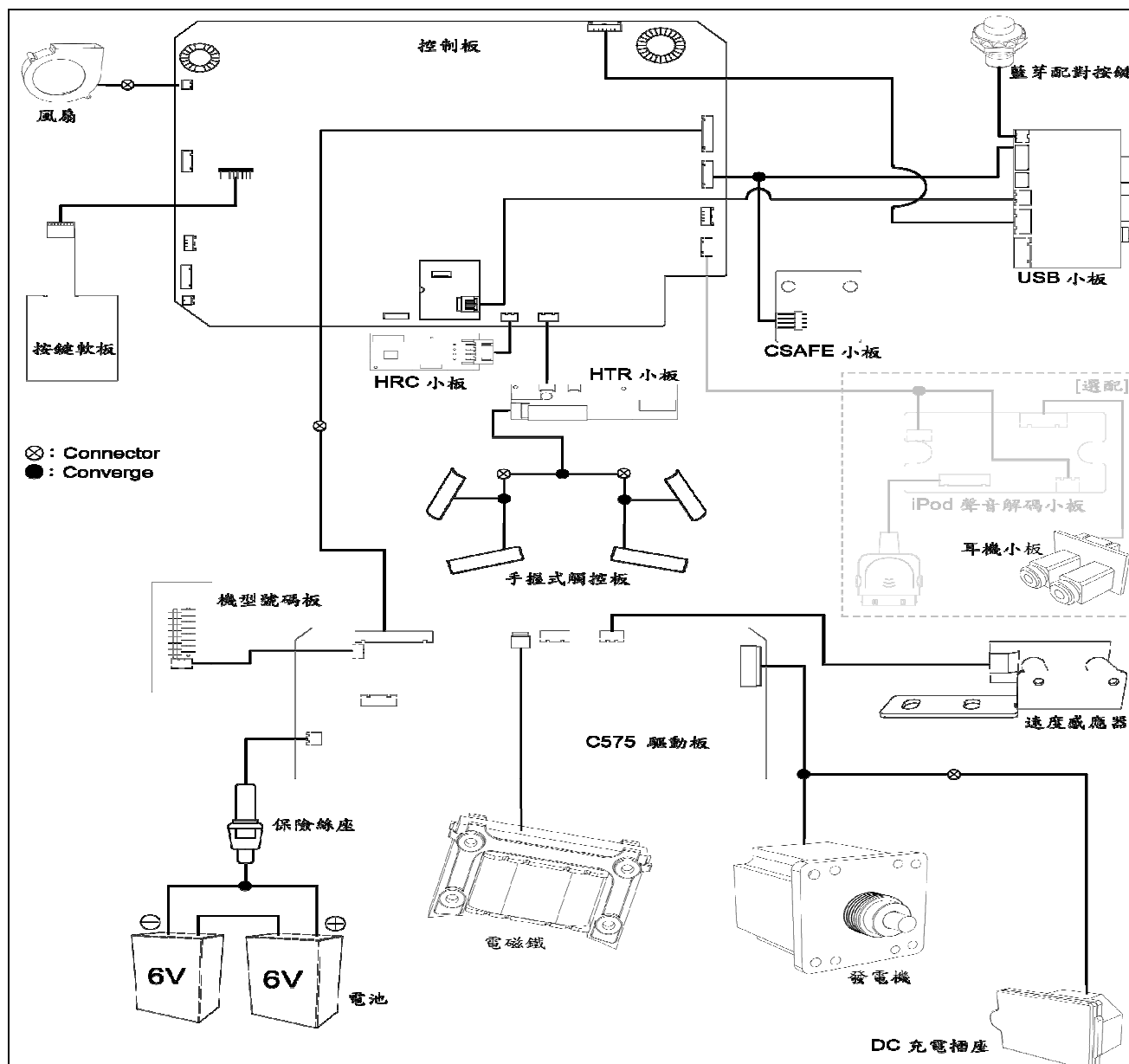
## 1-3. Component placement- C575U lower body - C575U



1-4. Block Diagram - C575U Electronics

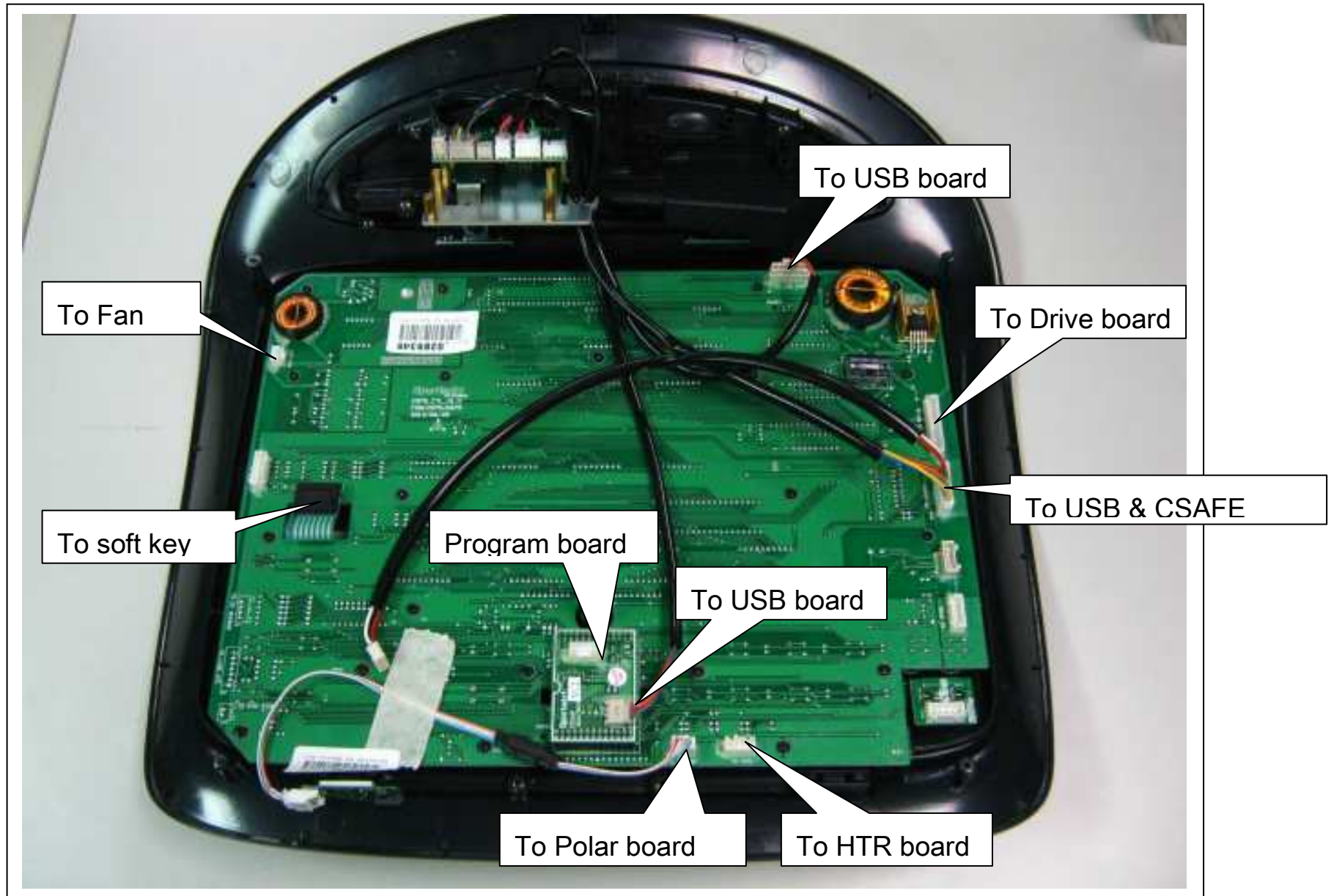


## 1-5.接線示意圖-C575U

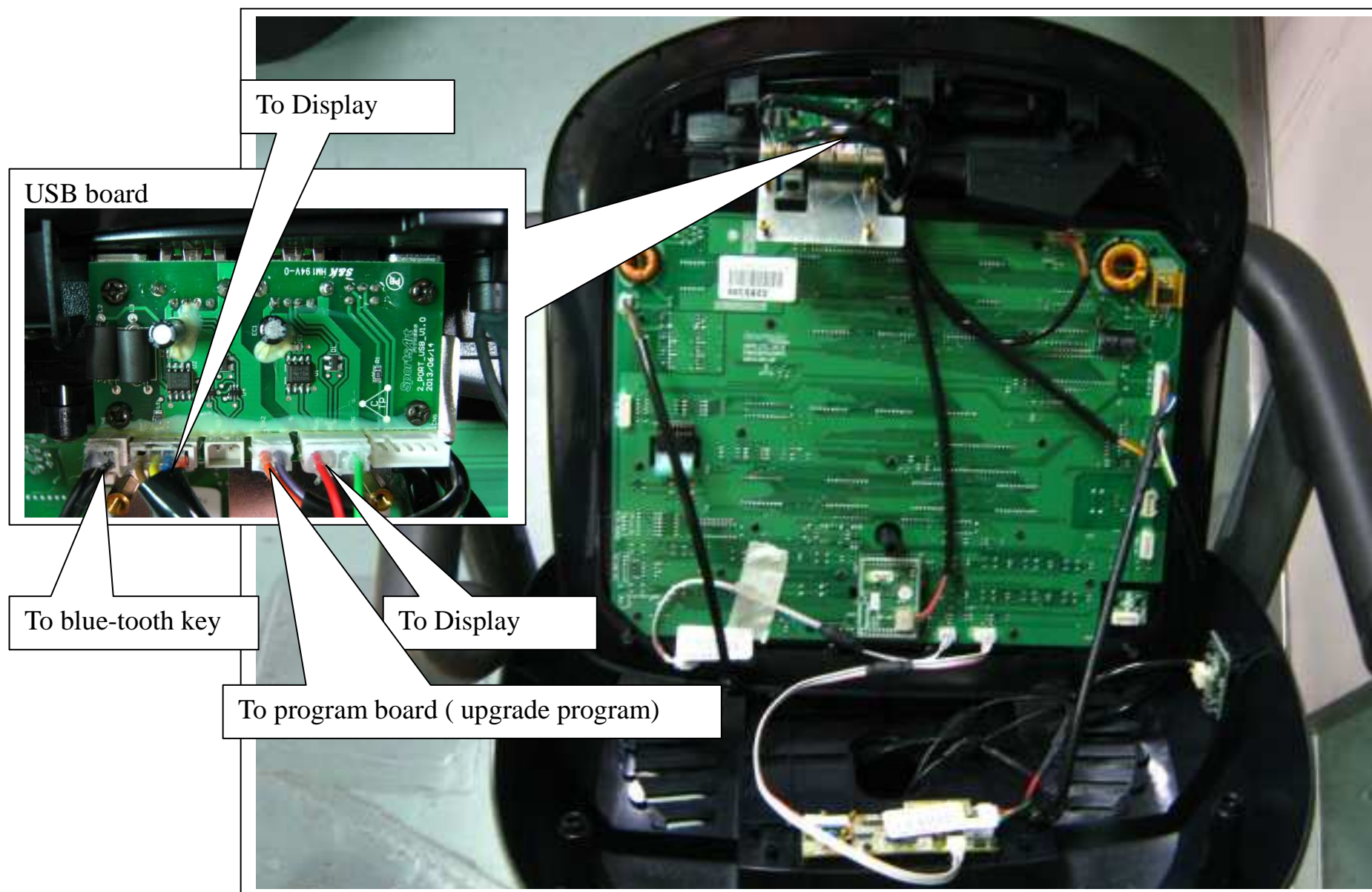




## 1-5. Connections - C575R/U Display

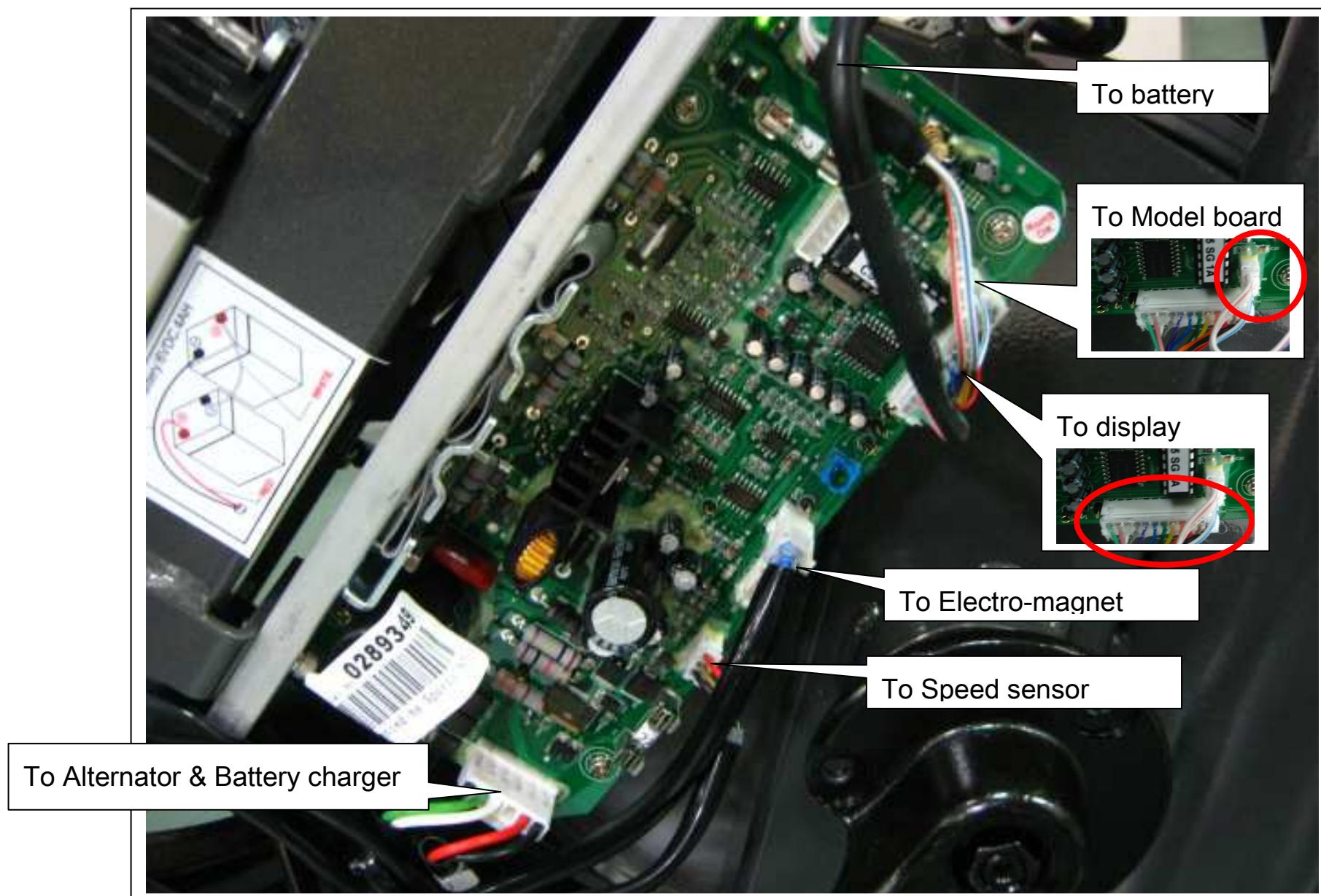


## 1-5. Connections - C575R/U Display





## 1-5. Connections - C575R/U Display

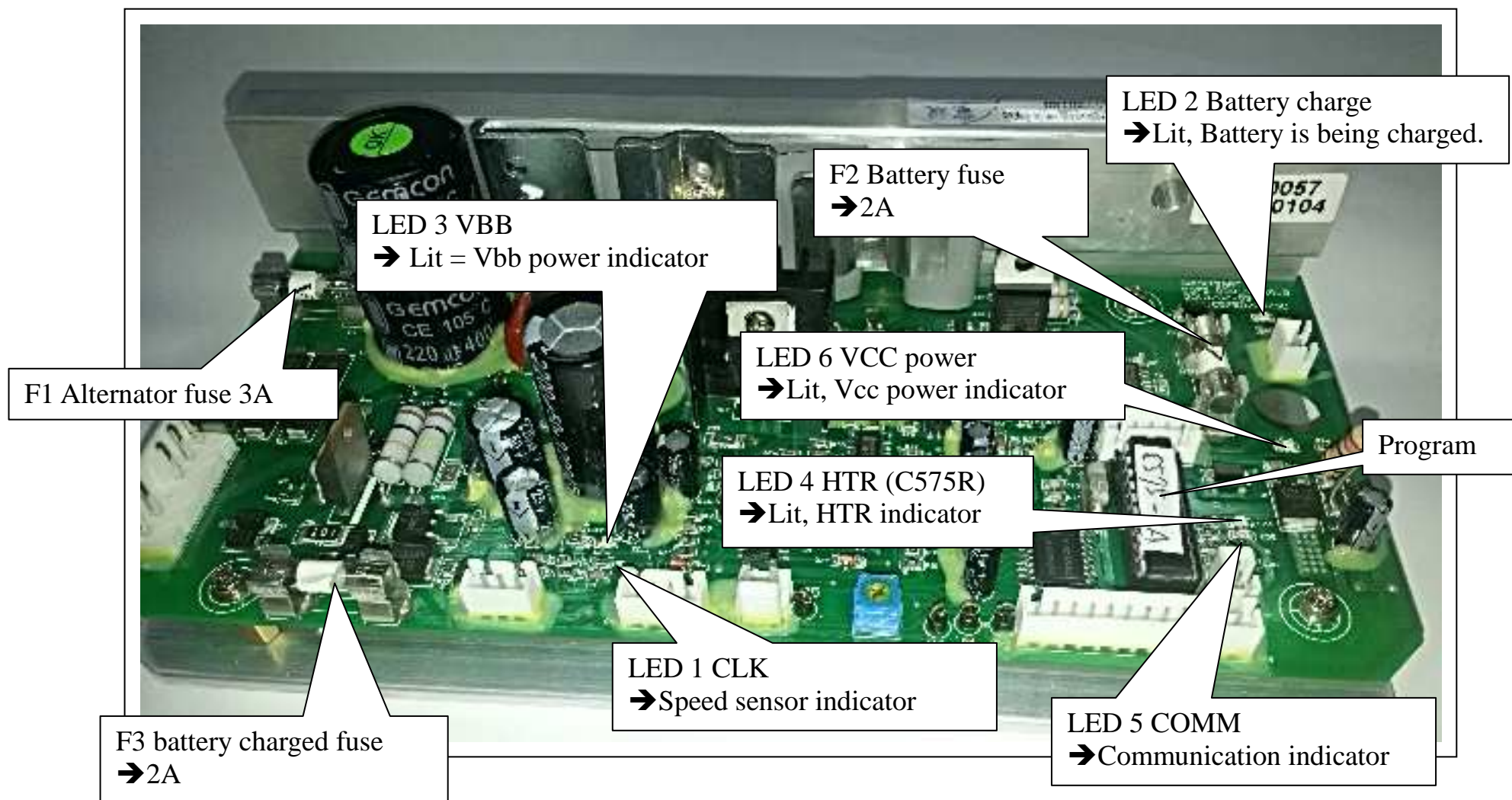


1-6. Display Board Indicator LEDs – C575R/U





## 1-6.Drive Board Indicator LEDs – C575R/U



## Troubleshooting

Model: C575U

Malfunction: Unit will not start (alternator).

Circumstance: Start pedaling; the display shows no reaction.

Possible reasons: 1. Wires are not connected.

2. The drive board fuse has blown.

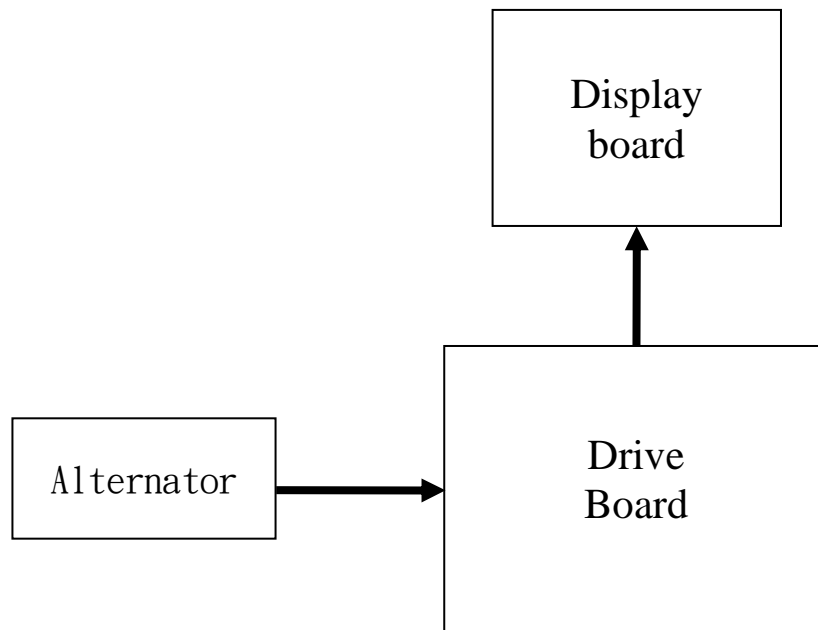
Troubleshooting: 1. Inspect wire and data cable connections.

2. Inspect the alternator. Do LED3 and LED6 on the drive board light when you pedal?

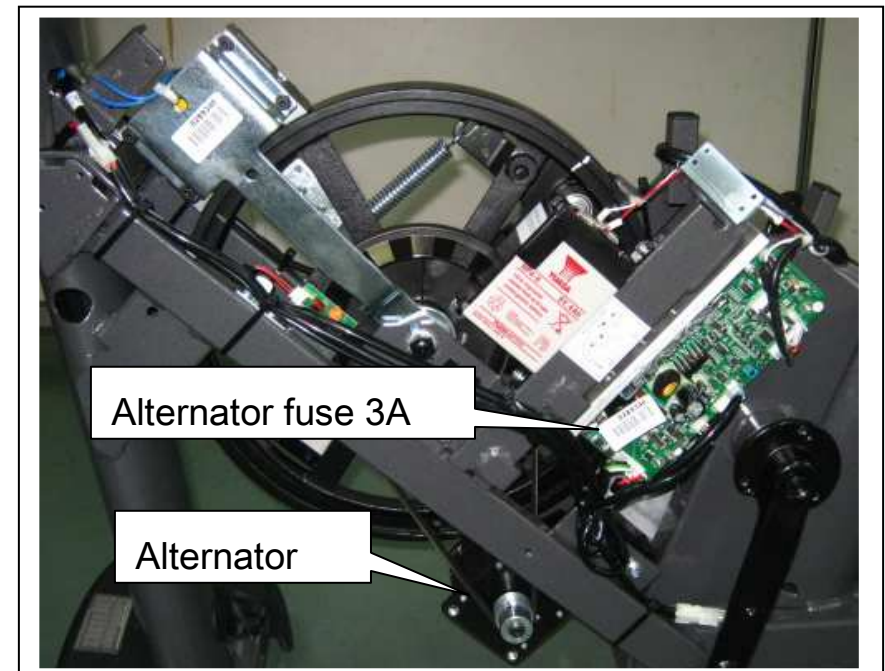
3. Inspect whether F2 fuse on the drive board is burnt.

4. Replace the drive board as a test.

5. Inspect the display power LED and main program IC.



Display





## Troubleshooting

Model: C575U

Malfunction: Unit will not start (battery).

Circumstance: When I stop pedaling, the display turns off.

Possible causes: 1. The battery fuse on the drive board is burnt.

2. The battery power is too low because the bike has been out of use.

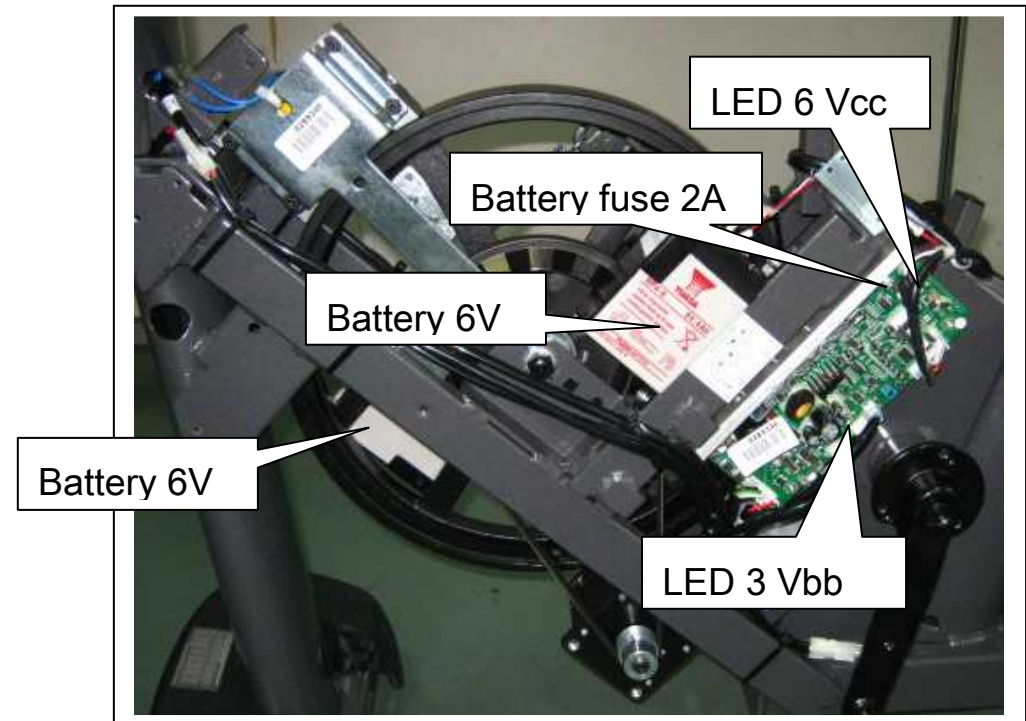
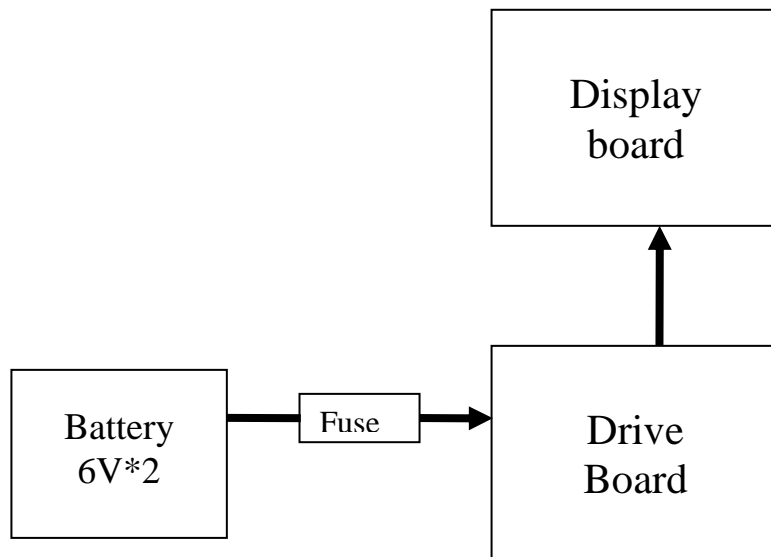
3. The battery charge function on drive board has failed.

Troubleshooting: 1. Inspect wire and data cable connections.

2. Measure the battery voltage. Normal: 5.2V or more.

3. Inspect F1 fuse on the drive board. Or replace the drive board as a test.

4. Pedal at 50 RPM or higher to recharge the battery.



## Troubleshooting

Model: C570R

Malfunction: No RPM value appears.

Circumstance: I pedal on the bike but no RPM value appears.

Possible causes: 1. Wires are not connected.

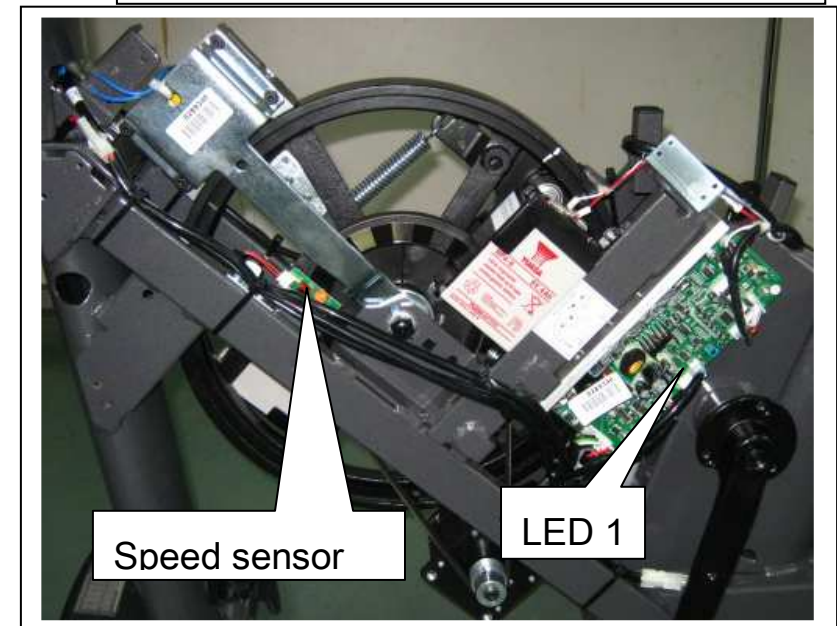
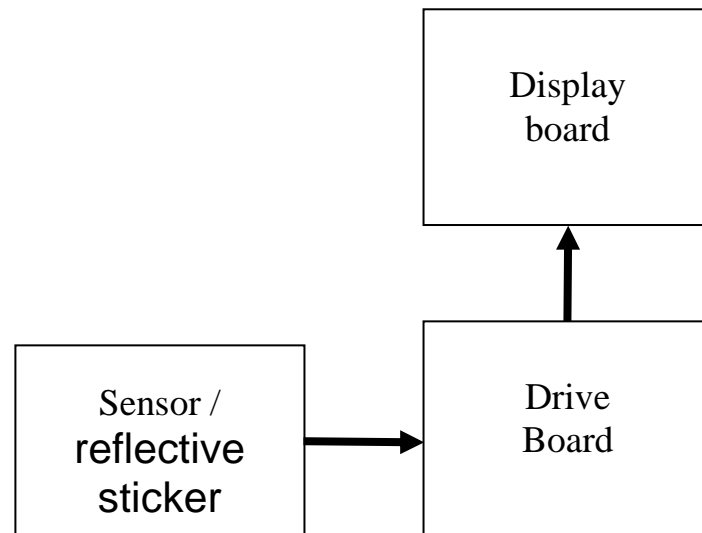
2. Speed sensor is malfunctioning.

Troubleshooting: 1. Make sure the distance between the optic sensor and the reflective sticker is 3-8mm.

2. Make sure the sensor on the optic sensor board is clean.

3. Inspect the drive board.

4. Inspect all cable connections.



## 故障排除

機 種

C575U

故障項目

無阻力

故障情形

踩踏機台，無任何阻力

可能原因

1. 電子表無 RPM 信號

2. 驅動板不良

故障排除

1. 檢查驅動板 CLK 信號燈

2. 檢查所有排線是否接好

3. 檢查發電機電壓是否正常

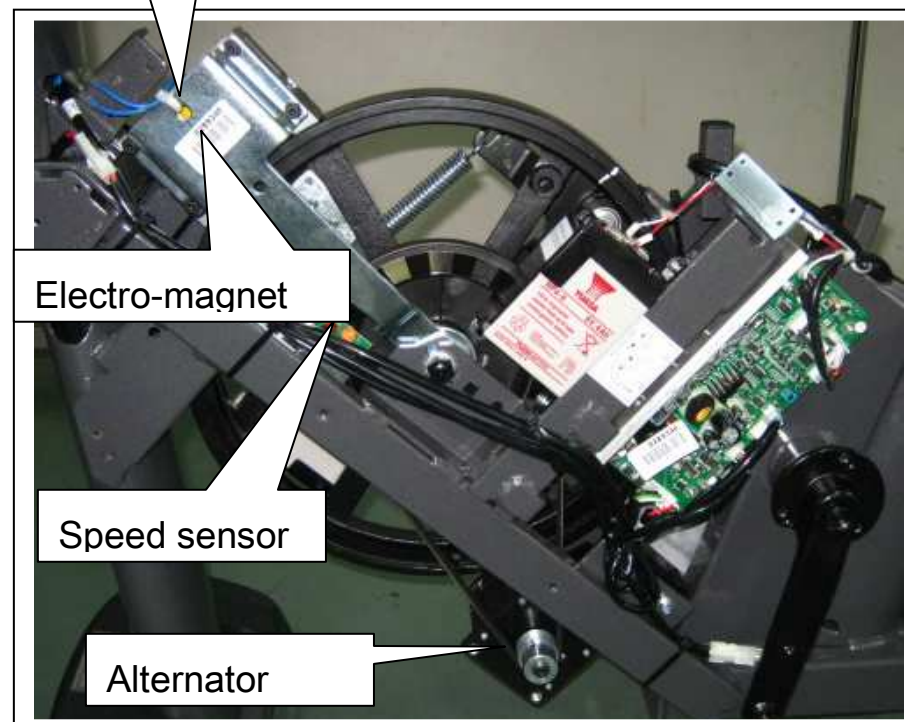
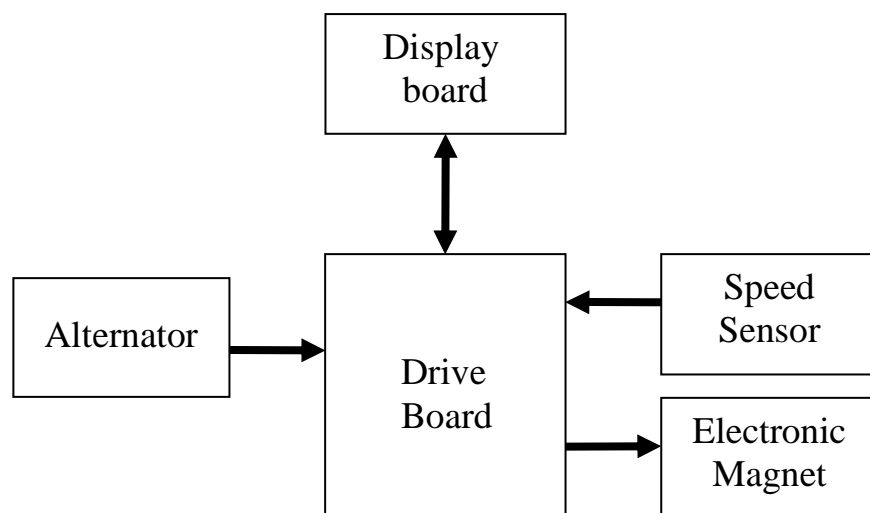
4. 量測阻力電壓輸出?或更換驅動板

5. 檢查驅動板 LED3, LED4 電磁鐵接線是否正常

6. 鑄鋼輪組單向軸承損壞

### Blue-blue

Level	voltage ( V )
LEVEL 1	1.9 V
LEVEL 10	11 V
LEVEL 40	17 V





## Troubleshooting

Model: C575R

Malfunction: No resistance.

Circumstance: I pedal on the bike, but there is no resistance.

Possible causes: 1. Display has no RPM value.

2. There is no output voltage from the alternator.

3. Drive board is defective.

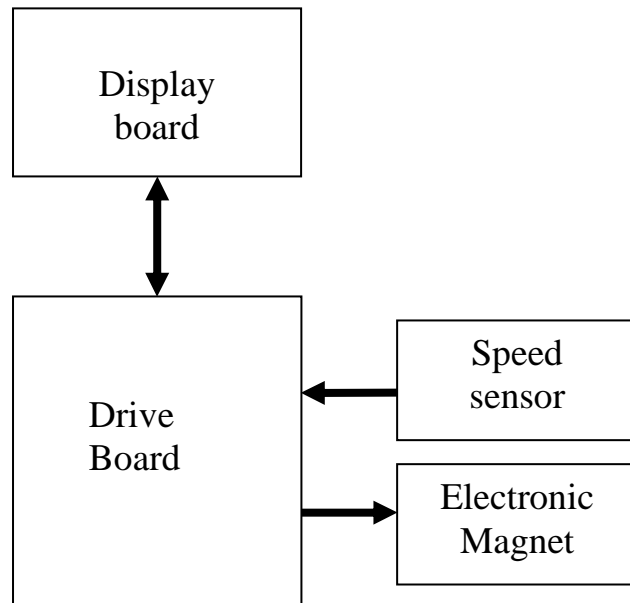
Troubleshooting: 1. Inspect whether the display receives the RPM signal.

2. Inspect whether the alternator can start the unit.

3. Inspect all cable connections.

4. Inspect the F2 fuse on the drive board. Measure alternator output voltage. Or replace the drive board as a test.

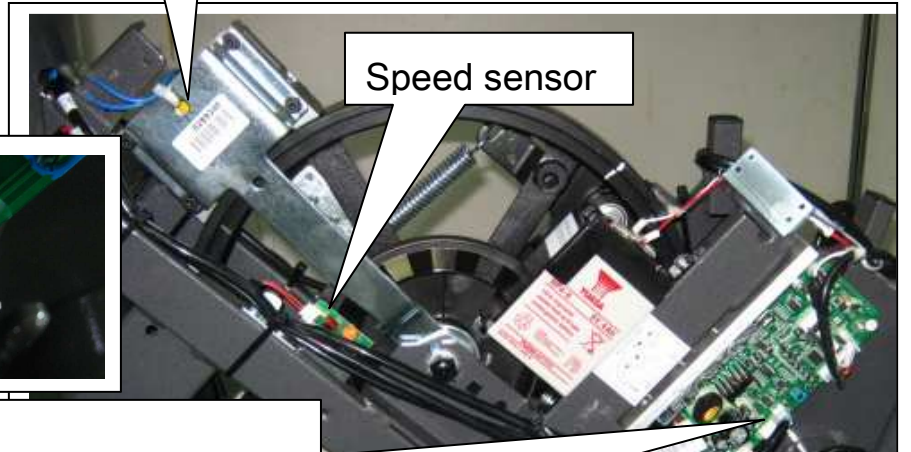
5. Inspect electro-magnet wire connections.



Electronic-magnet



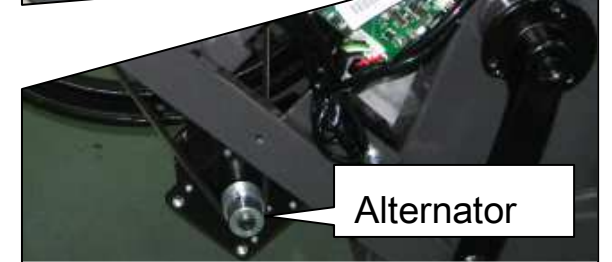
Speed sensor



Blue-blue

Level	voltage ( V )
LEVEL 1	3 v
LEVEL 10	11 v
LEVEL 20	18 v

Alternator



## Troubleshooting

Model: C575R

Malfunction: No telemetry heart rate reception.

Circumstance: I am wearing the heart rate telemetry strap properly.

But there is no heart rate reading.

Possible causes:

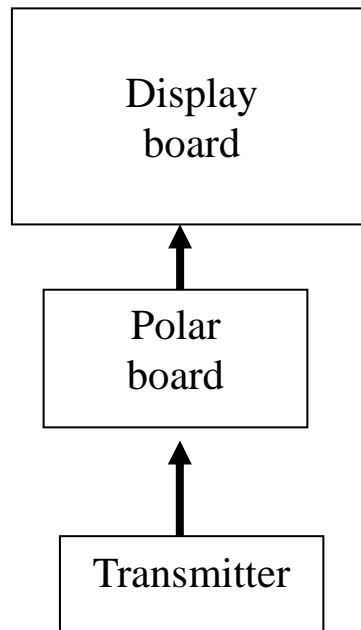
1. Telemetry strap transmitter battery voltage is too low.
2. Heart rate telemetry receiver board is malfunctioning.
3. Environmental interference, for instance, from lights or speakers, impedes signal reception.

Troubleshooting:

1. Replace the telemetry strap or its batteries.

2. Inspect the telemetry heart rate receiver board wire connections.

3. Replace the heart rate receiver board.



Polar board



Polar T34



## Troubleshooting

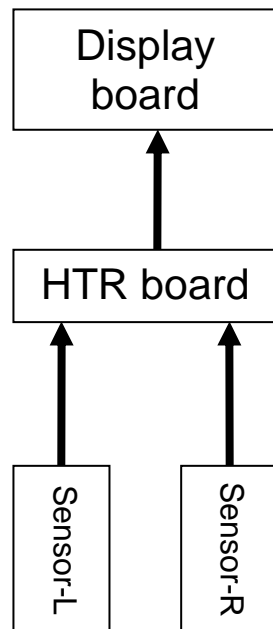
Model: C575R

Malfunction: Contact heart rate (HTR) malfunction.

Circumstance: Hold HTR contact plates; heart rate value is incorrect.

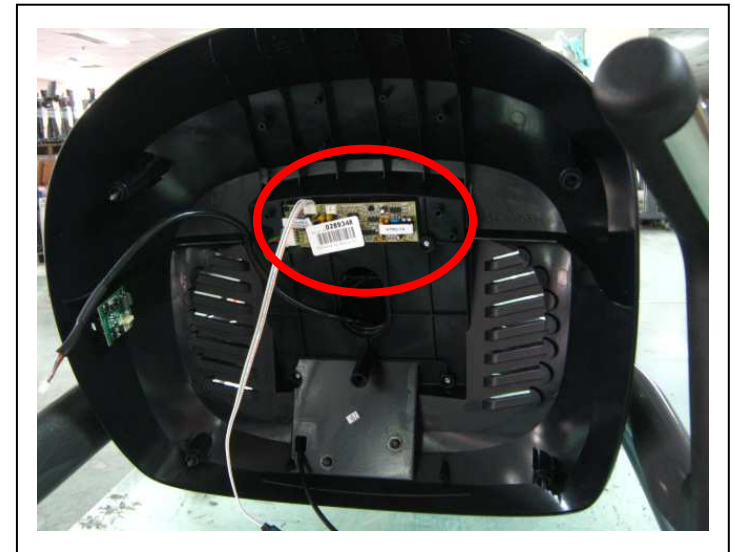
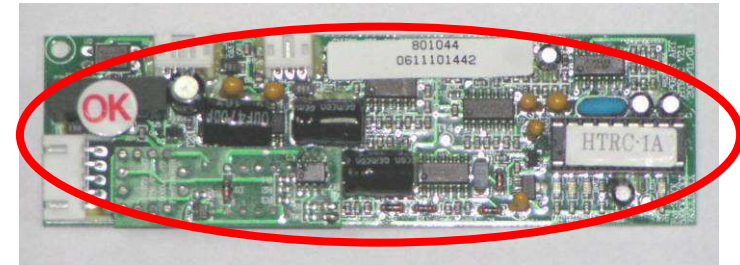
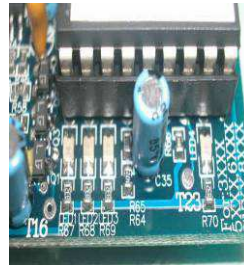
Possible causes: 1. HTR wires are disconnected.  
2. HTR board is defective.

Troubleshooting: 1. Inspect display wire connections.  
2. Inspect the HTR wire on the drive board.  
3. Inspect the HTR bridge board and HTR board indicator LEDs.  
4. Inspect the HTR contacts and their wire connections.



### HTR board indicator LEDs

LED	Name	Explanation
LED1	Telemetry	Flashes to indicate incoming telemetry signal.
LED2	HTR contact	Lights to indicate hands on contact plates.
LED3	HTR output	Flashes to indicate incoming HTR (contact) signal.
LED4	Heart rate signal output	Flashes to indicate heart rate signal output to the display





## Troubleshooting

Model: C575R/U

Malfunction: Soft keys do not function.

Circumstance: Press the soft keys. There is no response. Or the keys operate continuously.

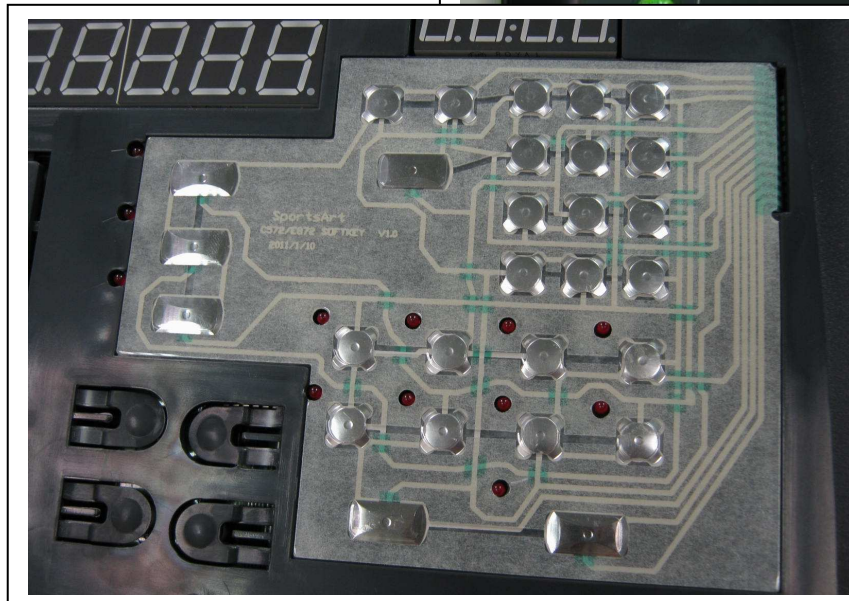
Possible causes: 1. Soft keys are not functioning.

Troubleshooting: 1. Replace soft keys.

Display board

Soft key

Soft key



## Troubleshooting

Model: C575R/U

Malfunction: Display key switch malfunction.

Circumstance: Press display keys, for instance, <STOP> , LEVEL <▲> / <▼>.

There is no reaction, or keys operate continuously.

Possible causes: 1. Display key malfunction.

2. Key cushions are out of place.

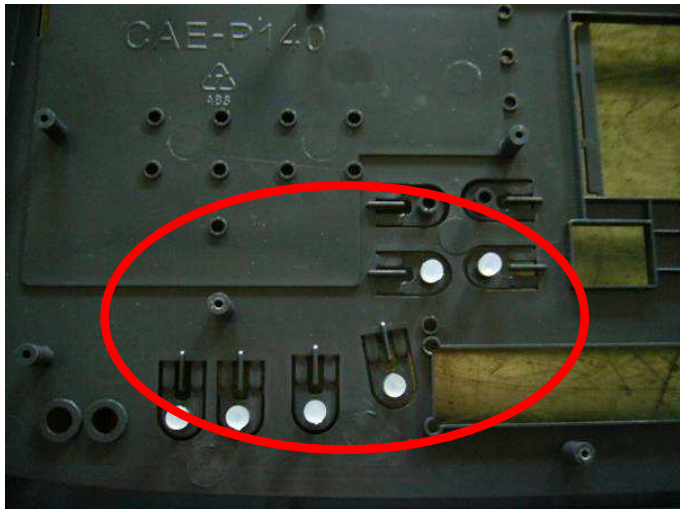
Troubleshooting: 1. Inspect key switch cushions.

2. Replace key switches.

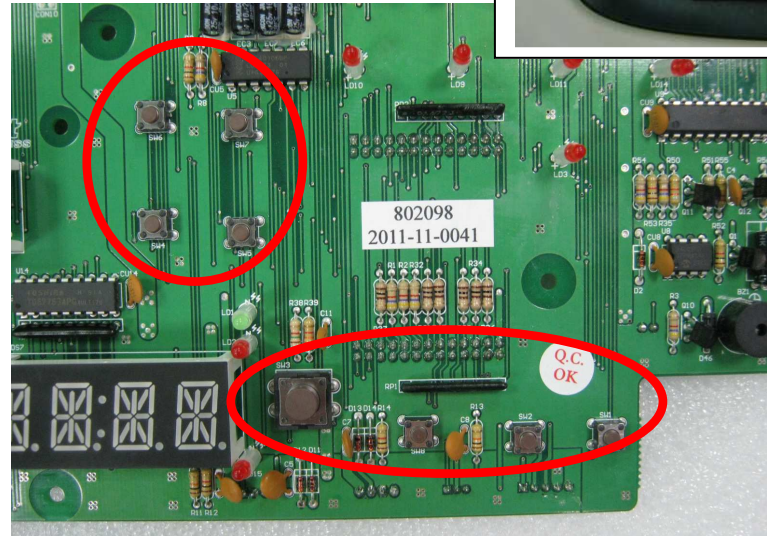
Tack switch



Tack switch cushions



Tack switch



## Troubleshooting

Model: C570R

Malfunction: Fan does not operate.

Malfunction: Press the fan key; the fan does not operate.

Possible causes: 1. Pedal rotation speed is below 50 RPM.

2. Fan motor is defective.

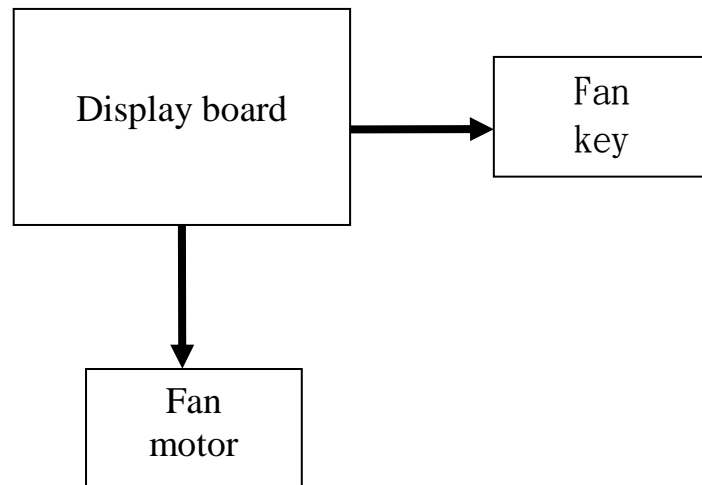
Troubleshooting: 1. Inspect whether speed exceeds 50 RPM.

2. Inspect wire connections from the display to the fan board.

3. Test whether the display sends voltage to the fan board.

If the display board does not send voltage to the fan board, replace the display.

If the display board sends voltage to the fan board, but the fan board doesn't operate, replace the fan board.



Fan	Voltage( V )
Fan low	3 v
Fan mid	6v
Fan high	9v



## 其他說明

機  
項  
功  
能  
  
說  
明

種 目 能 明  
C575  
機型小板說明  
1. 設定機種別，以利程式判斷機種  
2. C575, E875 的控制板及程式小板共用, 機型小板作為判斷機種用

機種	JP1,JP2,JP3,JP4, ... JP16
C575R/U	JP2 跳線，其他 JP1, JP3-JP16 斷路

