

CCPF-SK Assembly instructions

Rev 1.01

Document No.310898001

Date 15 September, 2021

Shimafuji Electric Inc.

Printed in Japan

Revision History

Edition Number	Date	Contents	Remarks

Table of Contents

1. Introduction.....	3
2. Contents confirmation.....	3
3. Disassembling R-Car Starter Kit	8
4. Assembling (board)	10
5. Assembling (bottom plate)	14
6. Assembling (FAN cable, micro-USB cable, upper plate)	16
7. Completed product.....	21

1. Introduction

This is the material for assembling CCPF-SK.

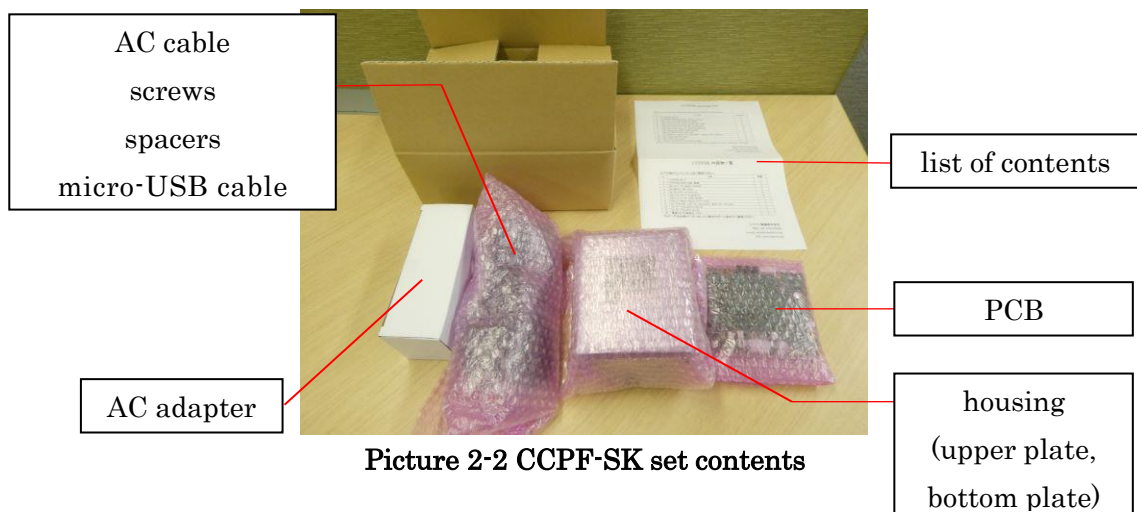
Please wear an antistatic wire when working.

CCPF-SK supports both R-Car Starter Kit Premier(H3) and R-Car Starter Kit Pro(M3), but this Assembly instructions uses R-Car Starter Kit Premier(H3).

2. Contents confirmation



Picture 2-1 R-Car Starter Kit Premier(H3) and CCPF-SK set

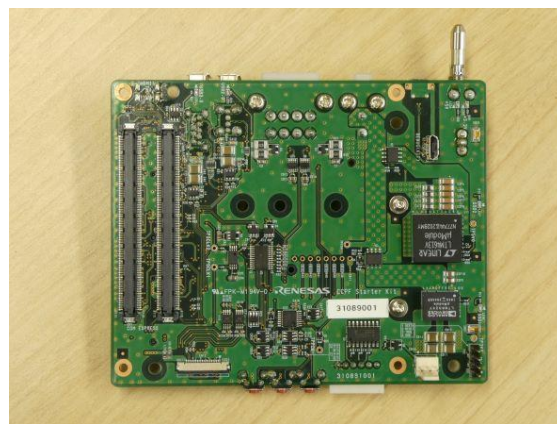


Picture 2-2 CCPF-SK set contents

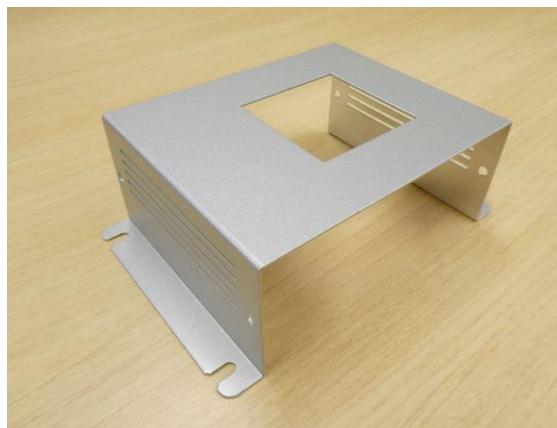
Make sure that you have all the necessary parts to manufacture one CCPF-SK.



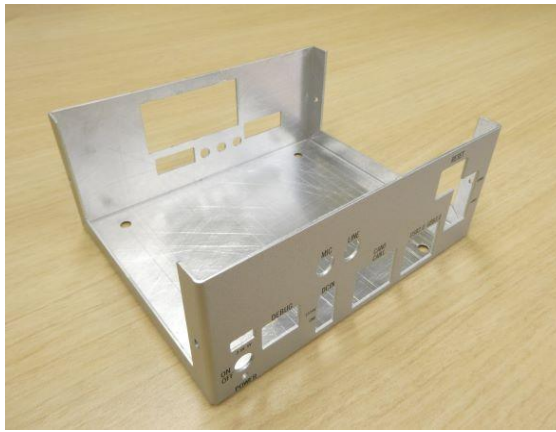
Picture 2-3 R-Car Starter Kit Premier(H3)



Picture 2-4 PCB



Picture 2-5 upper plate of the housing



Picture 2-6 bottom plate of the housing



Picture 2-7 M3 spacer: 5 KSB-318ANE (1 spare)



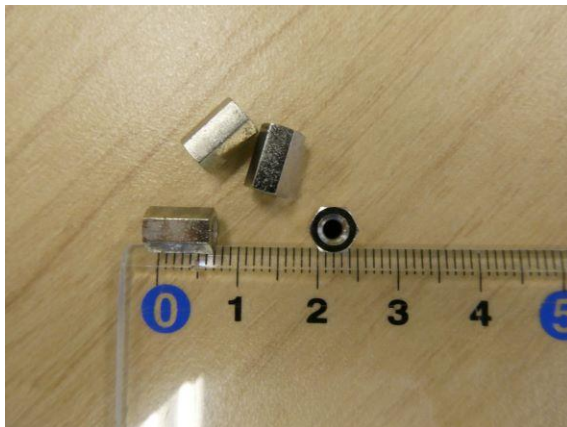
Picture 2-8 M3 countersunk head screw: 5 BF-0304 (1 spare)



Picture 2-9 M3 pan head screw: 9 B-0305-S1 (1 spare)



Picture 2-10 M2.6 pan head screw: 9 B-2606-S1 (1 spare)



Picture 2-11 M2.6 spacer: 5 ASB-2608E (1 spare)



Picture 2-12 micro-USB2.0 micro-B cable

Please prepare the following tools individually.



Picture 2-13 phillips screwdriver(L[M3], M[M2.6]), wrench(5mm、6mm), nut driver(5mm)

3. Disassembling R-Car Starter Kit



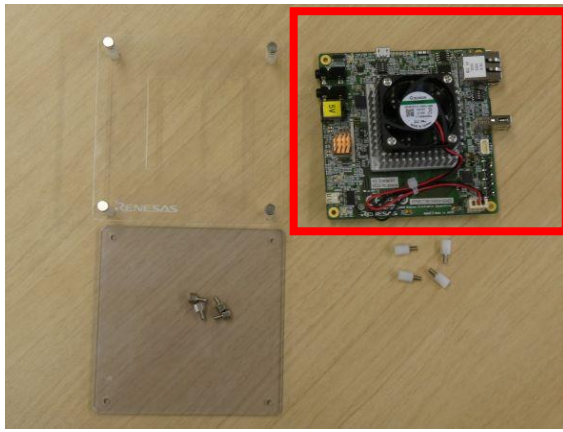
Picture 3-1 prepare R-Car Starter Kit



Picture 3-2 extract R-Car Starter Kit from its box



Picture 3-3 remove spacers, screws, and the acrylic plates from R-Car Starter Kit

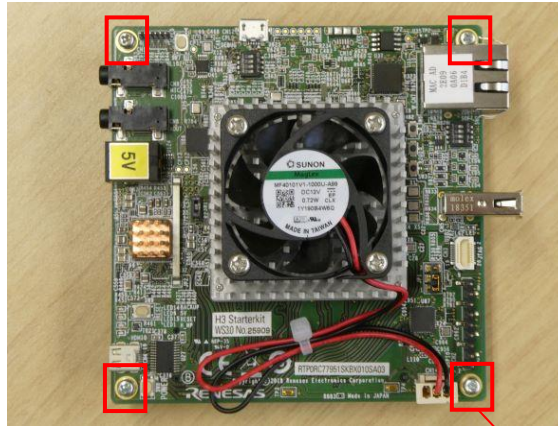


Picture 3-4 use the board in the red frame

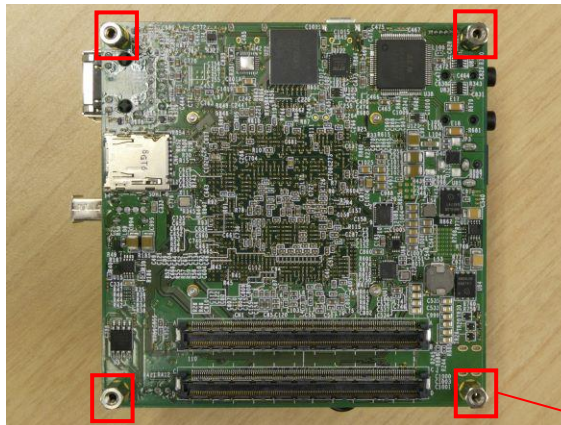


Picture 3-5 retain the removed the acrylic plates, spacers, and screws unused

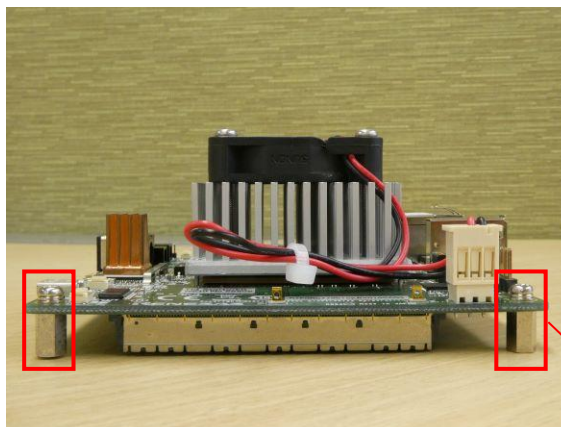
4. Assembling (board)



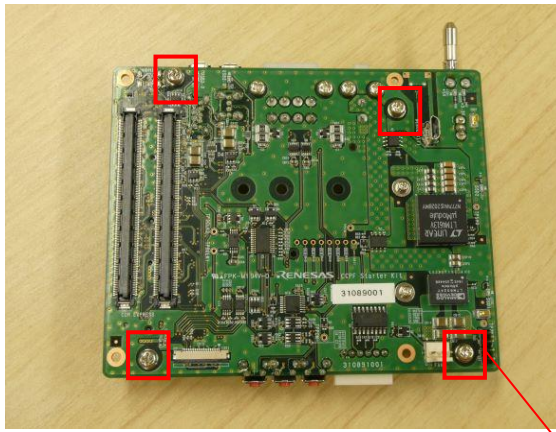
Picture 4-1 upper side of R-Car Starter Kit



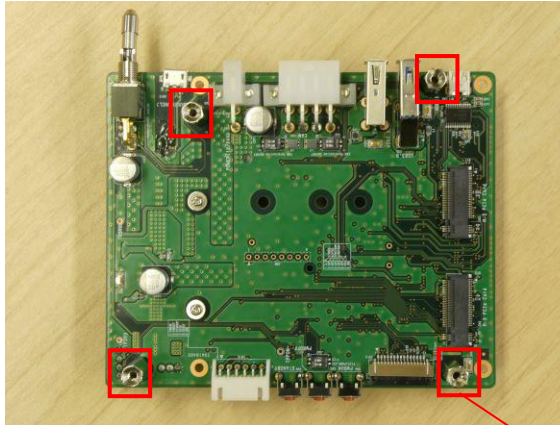
Picture 4-2 bottom side of R-Car Starter Kit



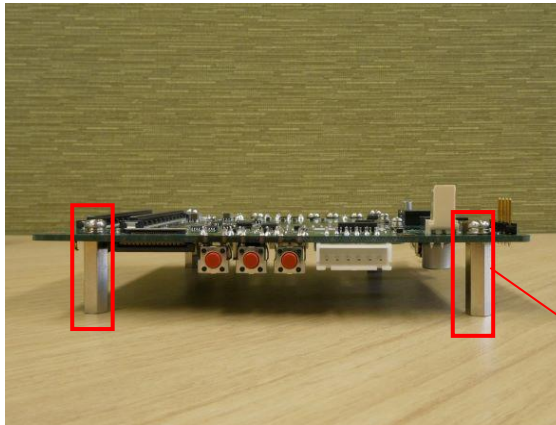
Picture 4-3 tighten in four places with the included M2.6 spacers and M2.6 pan head screws



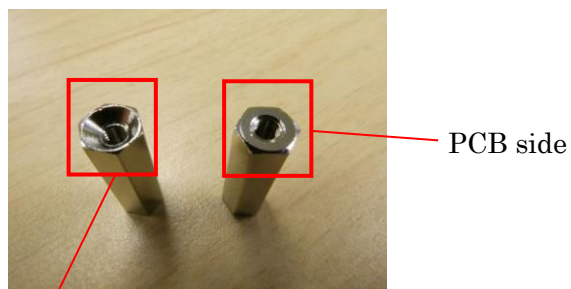
Picture 4-4 upper side of PCB



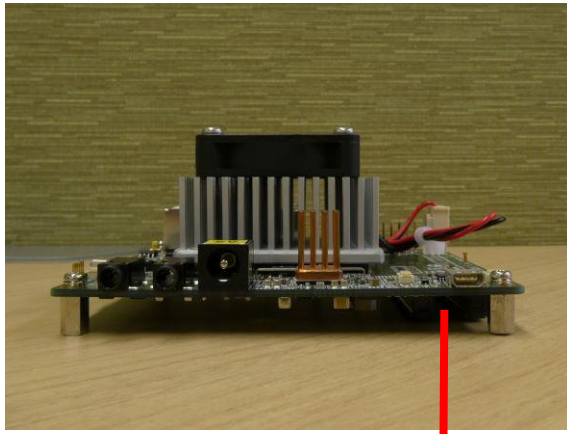
Picture 4-5 bottom side of PCB



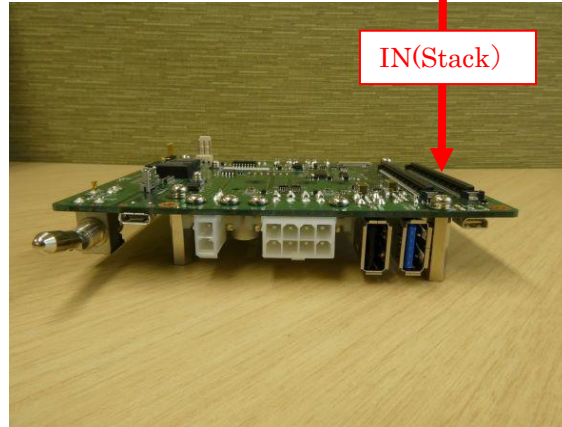
Picture 4-6 tighten in four places with the included M3 spacers and M3 pan head screws



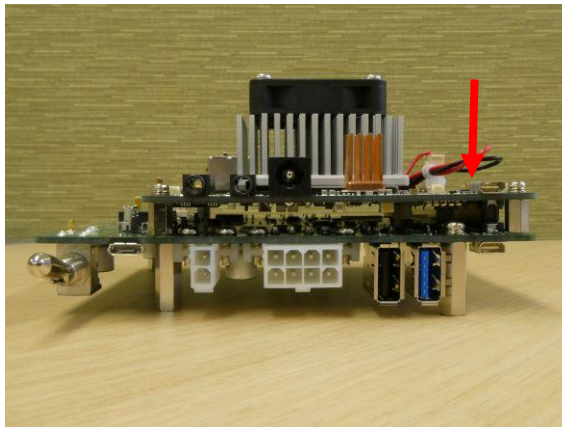
Picture 4-7 make sure that the counter sinking are on the bottom plate side



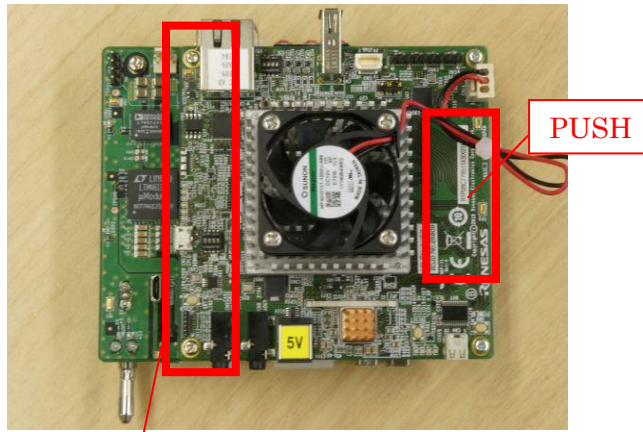
Picture 4-8 upper side of R-Car Starter Kit



Picture 4-9 attach the CN1 of R-Car Starter Kit to the CN1 of PCB

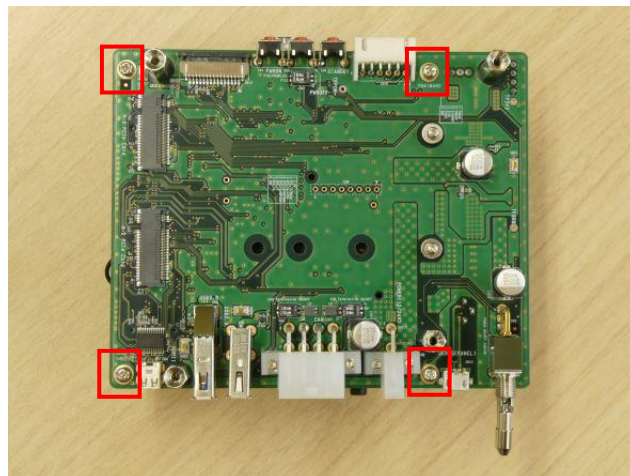


Picture 4-10 board connection



Picture 4-11 press with fingers from above

Make sure there are no gaps.



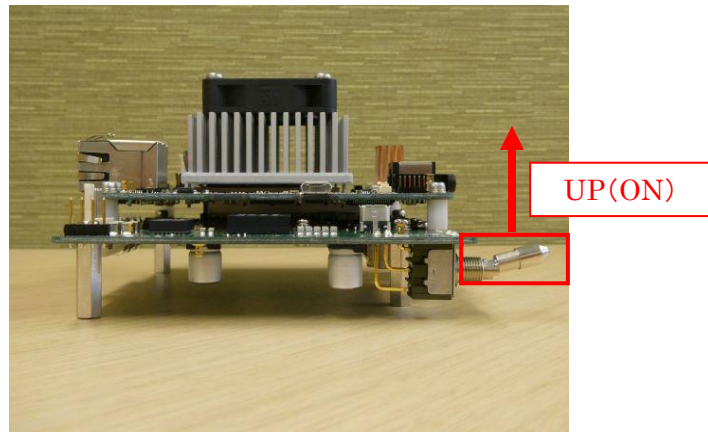
Picture 4-12 tighten four M2.6 spacers to PCB with M2.6 pan head screws from the back side

If you need the M.2 and camera, you should attach them at this stage.

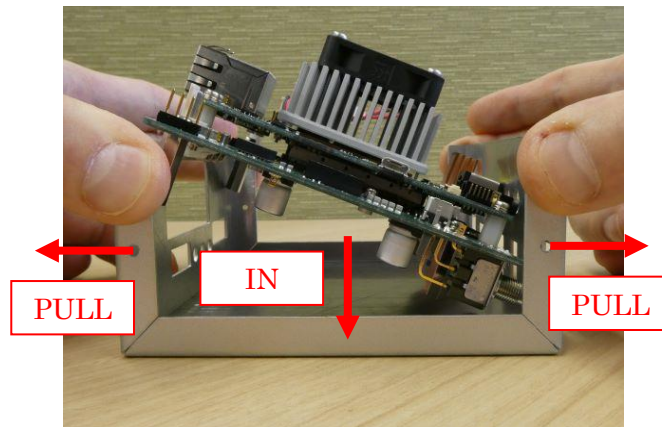


Picture 4-13 side of connection

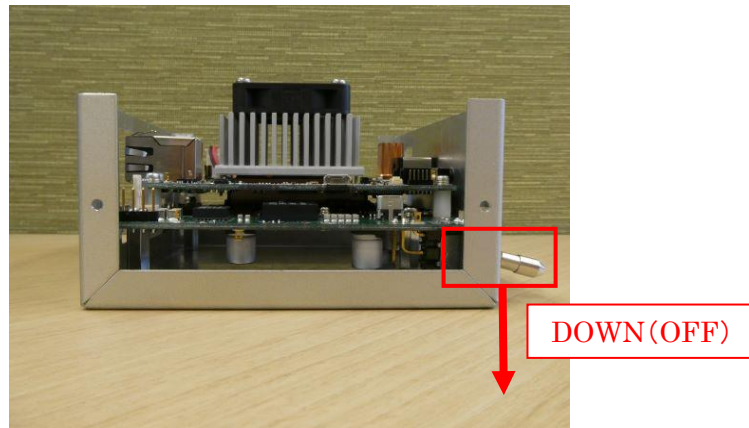
5. Assembling (bottom plate)



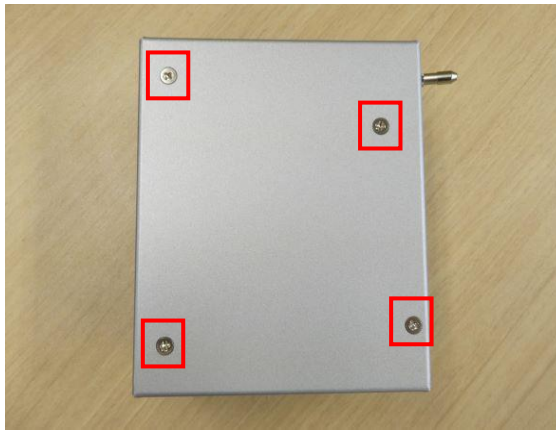
Picture 5-1 turn on the POWER switch



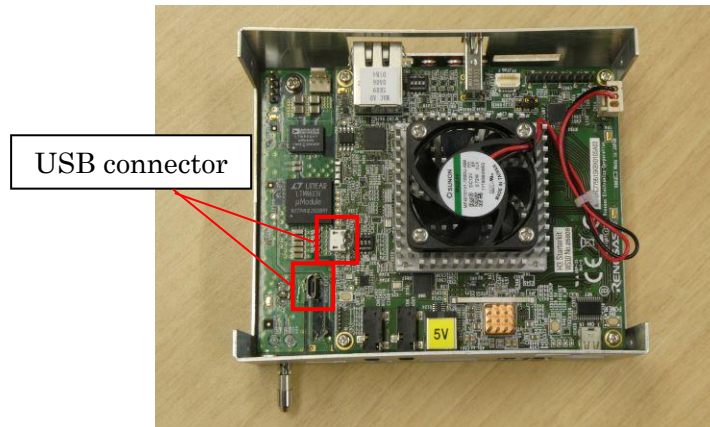
Picture 5-2 insert the POWER switch side into the housing and put with opening the bottom plate of the button side while aligning the MIC and LINE holes.



Picture 5-3 turn the POWER switch back to OFF

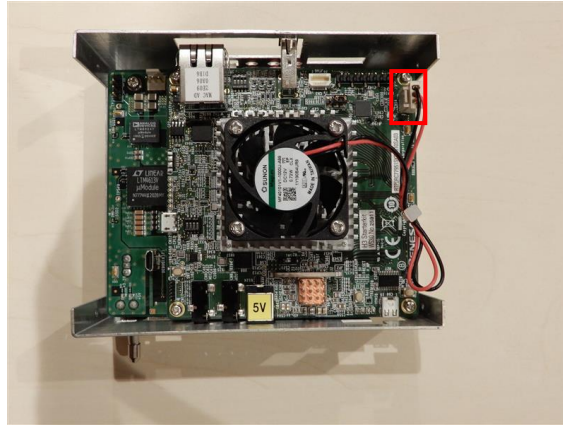


Picture 5-4 tighten the bottom plate of the housing with four M3 countersunk screws

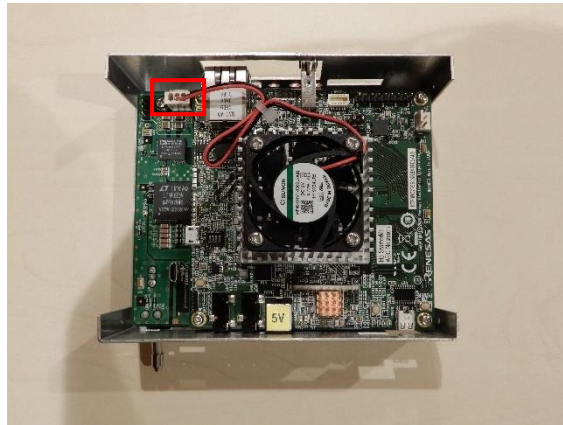


Picture 5-5 top of assembly

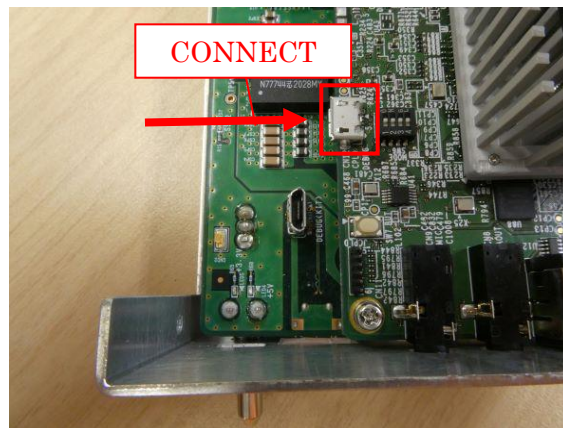
6. Assembling (FAN cable, micro-USB cable, upper plate)



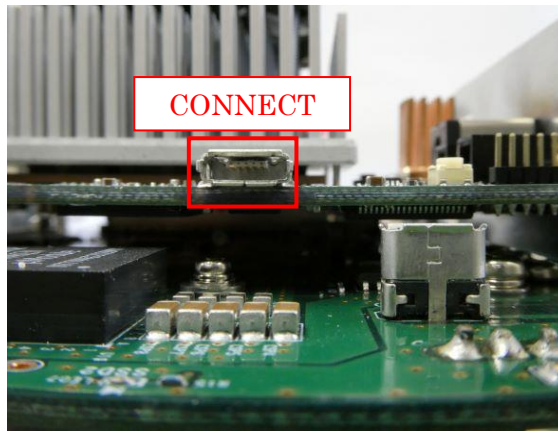
Picture 6-1 FAN cable on R-Car Starter Kit



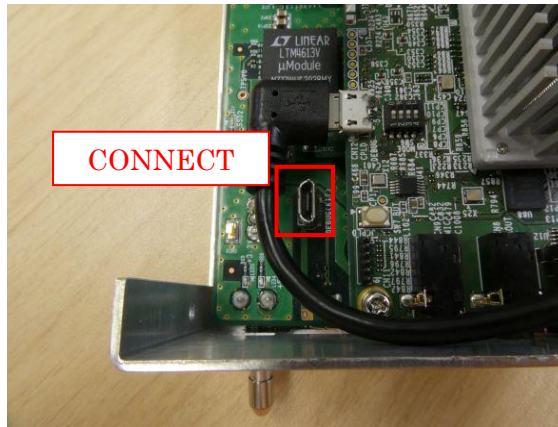
Picture 6-2 connect FAN cable from R-Car Starter Kit to PCB



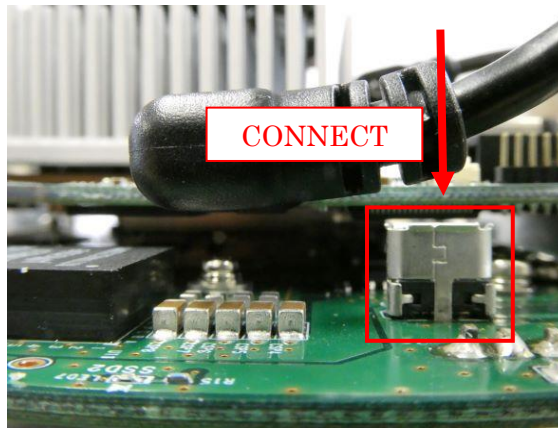
Picture 6-3 R-Car Stater Kit (CN12)



Picture 6-4 connect one side with the included micro-USB cable



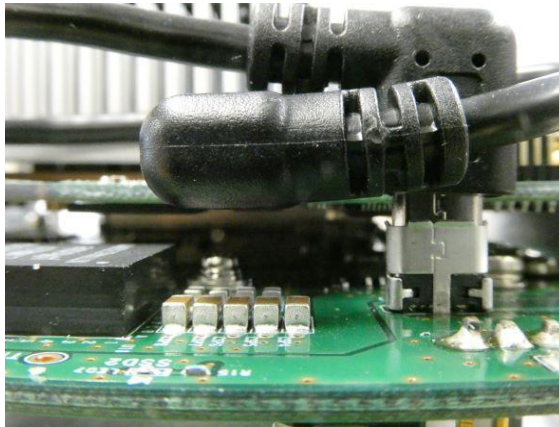
Picture 6-5 PCB (CN11)



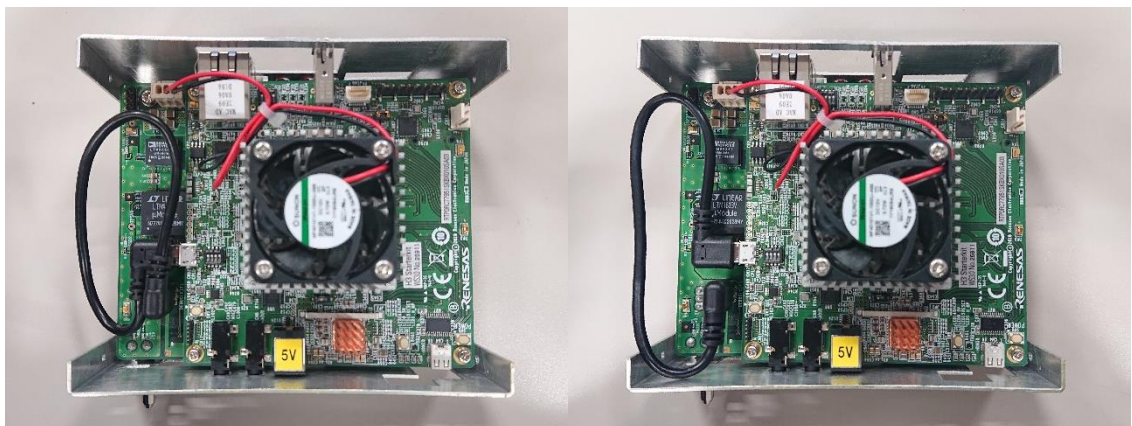
Picture 6-6 connect the other side with the included micro-USB cable



Picture 6-7 example of cable connection (top)



Picture 6-8 example of cable connection (side)



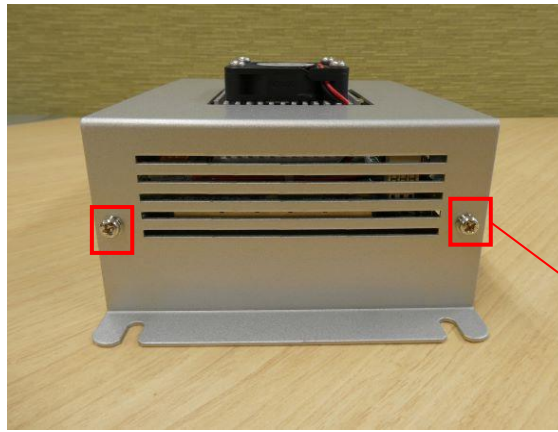
Picture 6-9 2 pattern cable connection



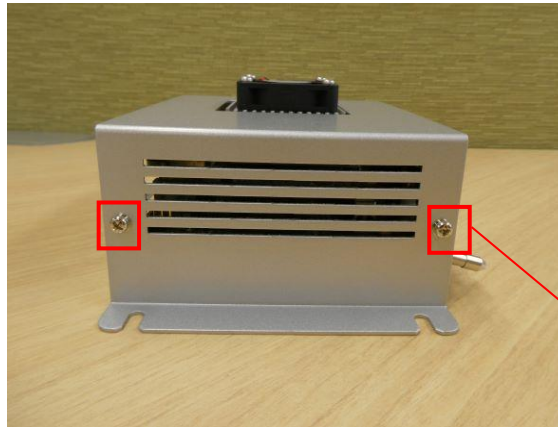
Picture 6-10 cover the bottom plate with the upper plate



Picture 6-11



Picture 6-12



Picture 6-13 tighten the sides of the housing with four M3 pan head screws

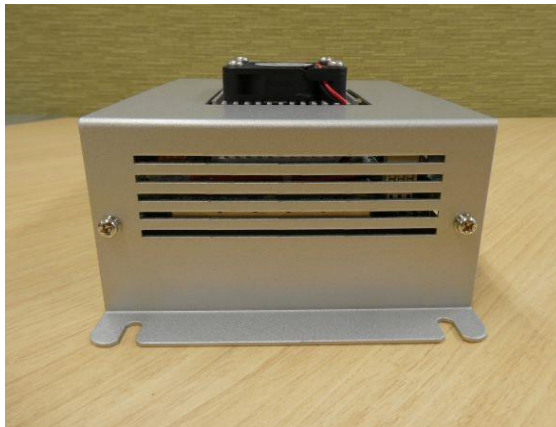
7. Completed product



Picture 7-1 side (right)



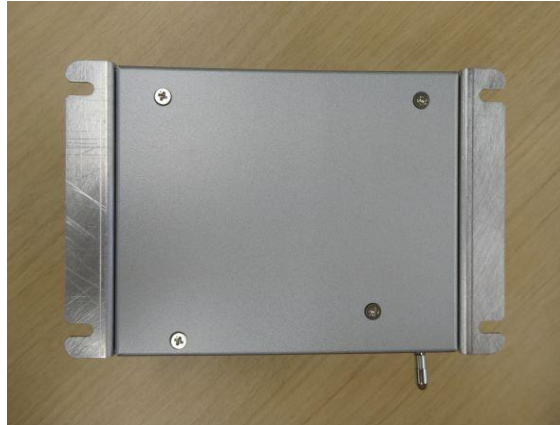
Picture 7-2 back side



Picture 7-3 side (left)



Picture 7-4 front



Picture 7-5 bottom

It is recommended to apply thread lock to each screw.

End of document