

Manufacturing Process Instructions (Draft MPI)

Document Number : QI-B052-XXX-00

Document Name : ASrock 2U4FH-12L

Model information

專案資訊表

客戶機種 Customer Model	2U4FH-12L
專案代碼 Project Code	
技轉完成日 Technology transfer finishing date	2016/11/21
SOP version	A0
IE Engineer	陳思璋



組裝注意事項 Notice

- 1 詳細檢查內容及標準，請依SIP檢驗規範執行
- 2 操作人員需配戴靜電環
- 3 電動起子扭力值設定如下
1~1.5kgf-cm(手旋螺絲)、5~6kgf-cm(PCBA&鐵件&CPU Heat Sink)

ATTENTION : Observe Precautions For Handling ELECTROSTATIC SENSITIVE DEVICES

注意：請遵守使用防靜電措施



P3

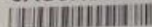
取出2U4FH-12L (5RAMACAUF080)，檢驗有無刮傷、變形不良現象後拆除中&後上蓋，共9顆沉頭螺絲



P4

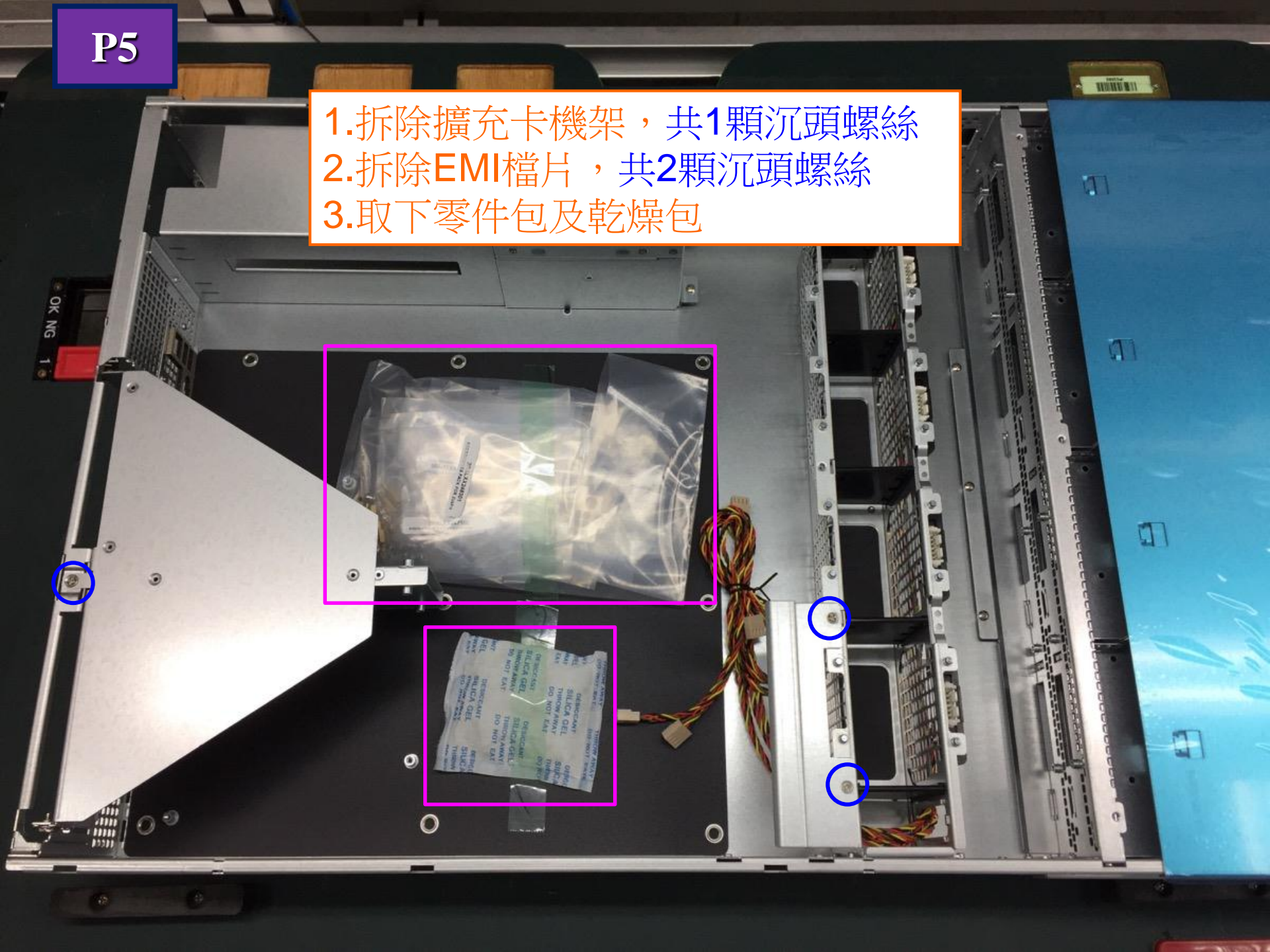
黏貼整機條碼於指定位置並掃瞄

90SSXG3P0-C0K00000B
S/N: 6AS0R8000085



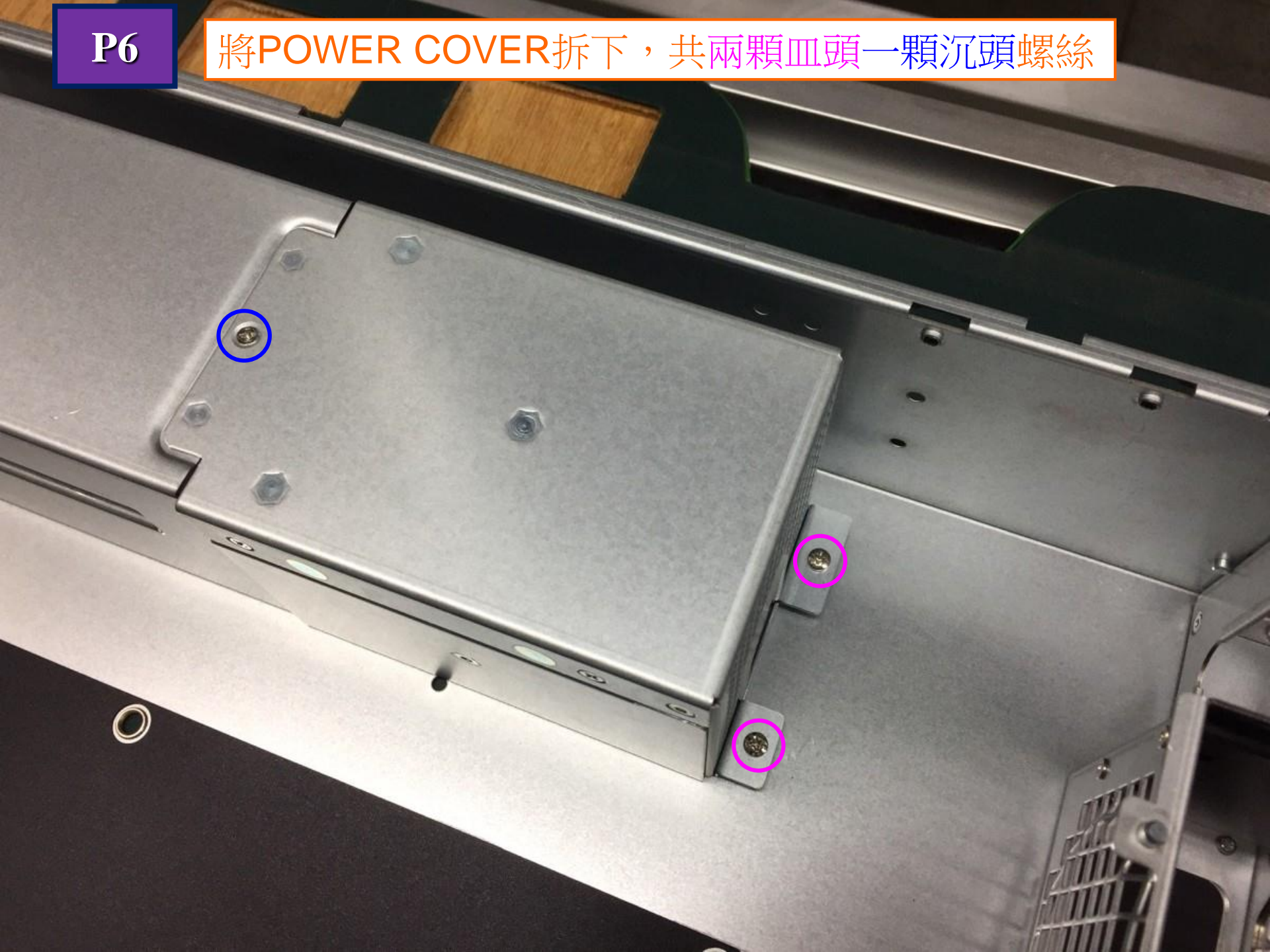
OK NG T

1. 拆除擴充卡機架，共1顆沉頭螺絲
2. 拆除EMI檔片，共2顆沉頭螺絲
3. 取下零件包及乾燥包



P6

將POWER COVER拆下，共兩顆皿頭一顆沉頭螺絲

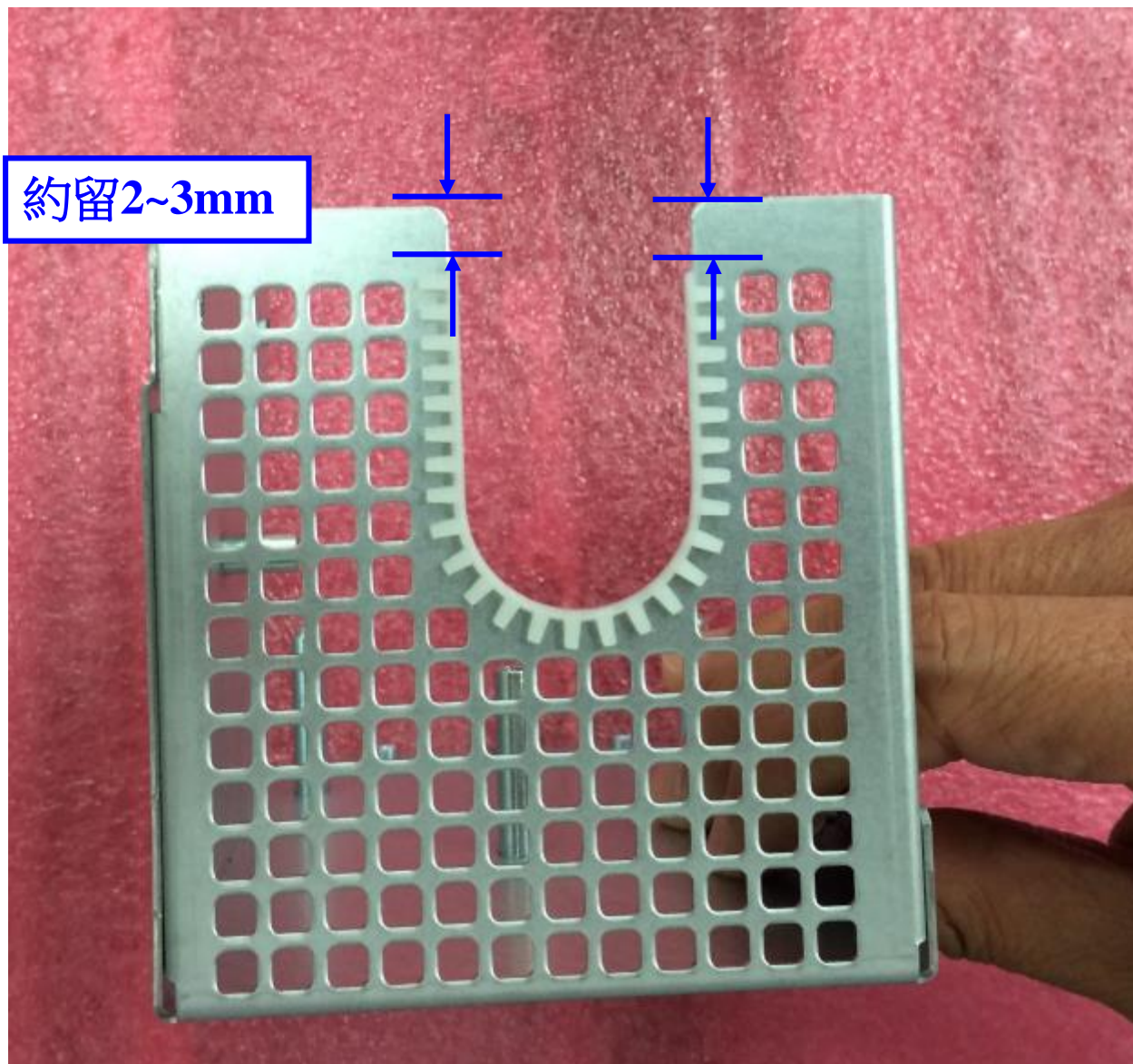


P7

將POWER COVER拆下，共四顆沉頭螺絲

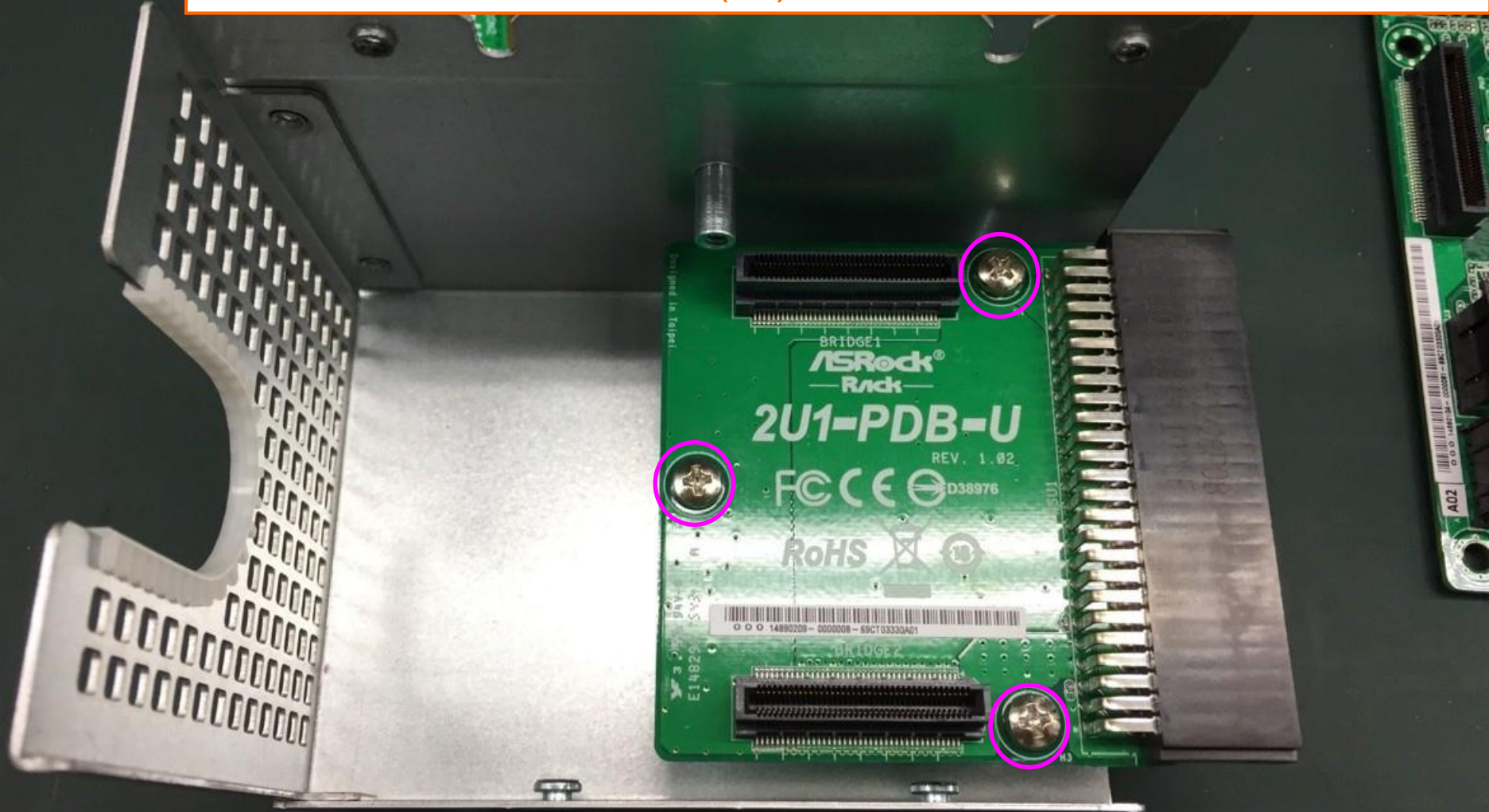


確認POWER COVER護線環是否有留空間，避免組裝擠壓



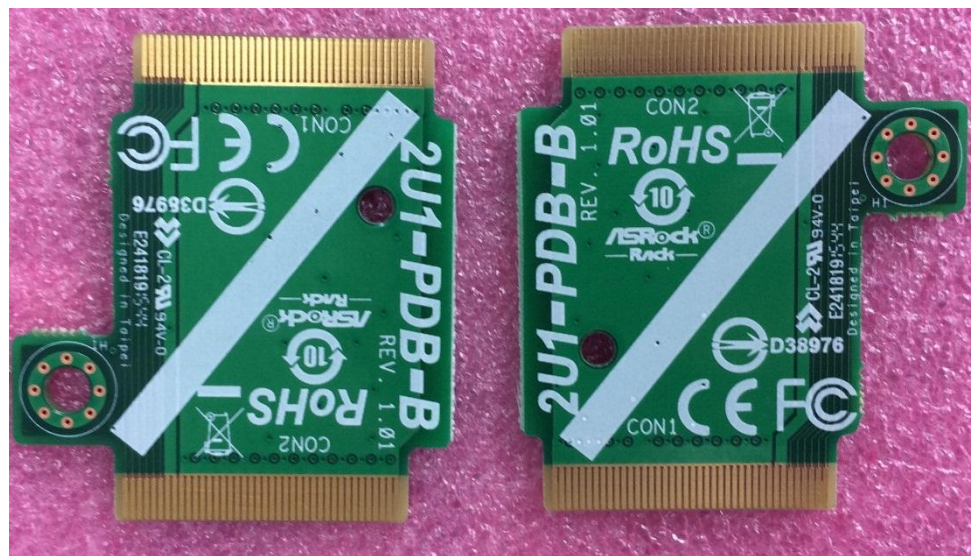
P9

STEP1:取PDB-U(5RAMPDAAF029)檢視有無不良後掃描條碼
STEP2:從螺絲包(2RALXX248201)取出皿頭螺絲*3PCS將
PDB-U鎖於PSU COVER(上)



P10

取2U1-PDB-B(5RAMPDAAF030)依圖面拆開

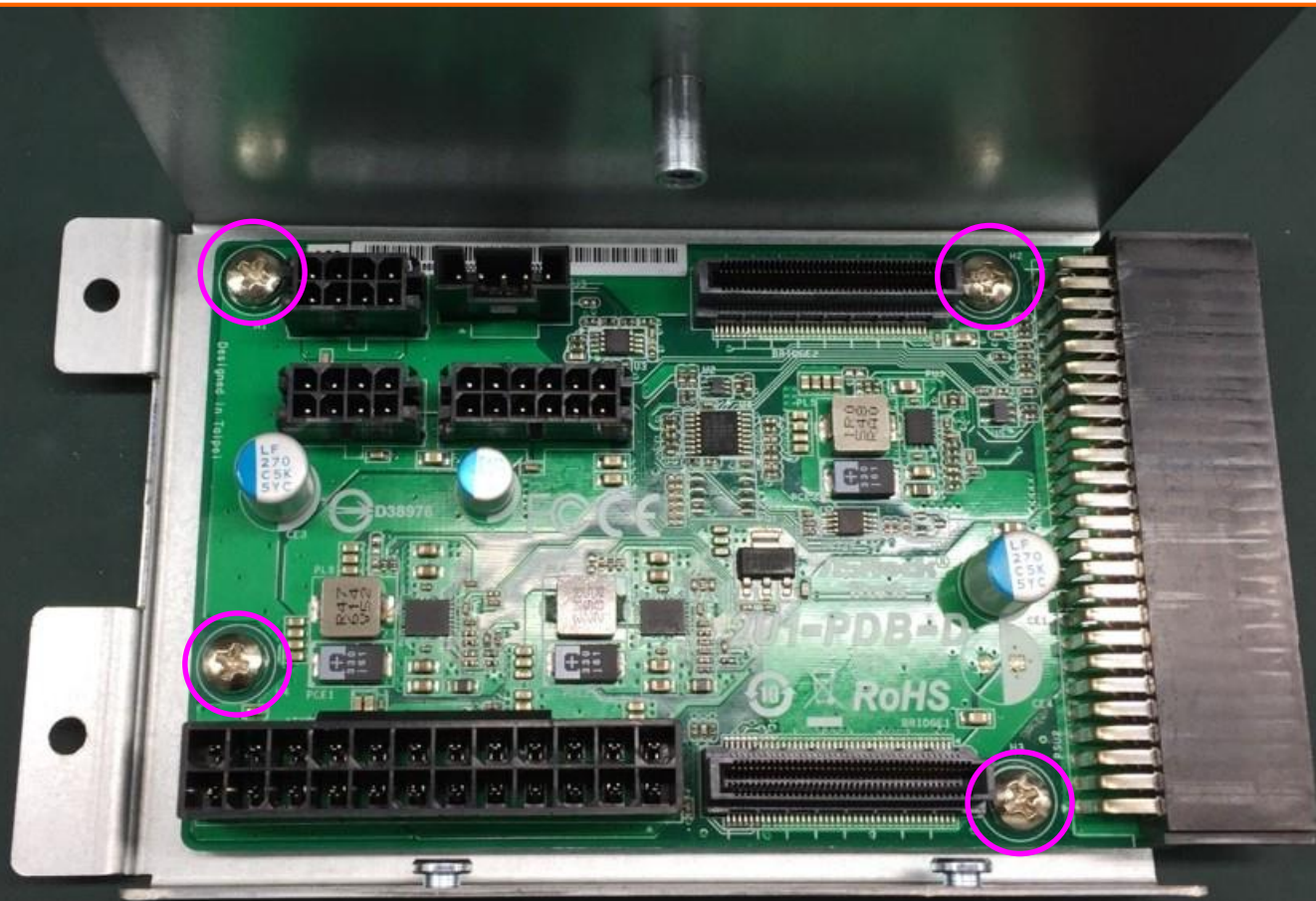


P11

STEP1: 取PDB-B(5RAMPDAAF030)檢視有無不良後掃描條碼
STEP2: 從螺絲包(2RALXX248201)取出皿頭螺絲*1PCS將
PDB-B組於PDB-U並鎖於POWER COVER(上)，注意PDB-B
是否確實卡入PDB-U



STEP1:取PDB-D(5RAMPDAUF096)檢視有無異常後掃瞄條碼
STEP2:從螺絲包(2RALXX248201)取出皿頭螺絲*4PCS將
PDB-D鎖於PSU COVER(下)



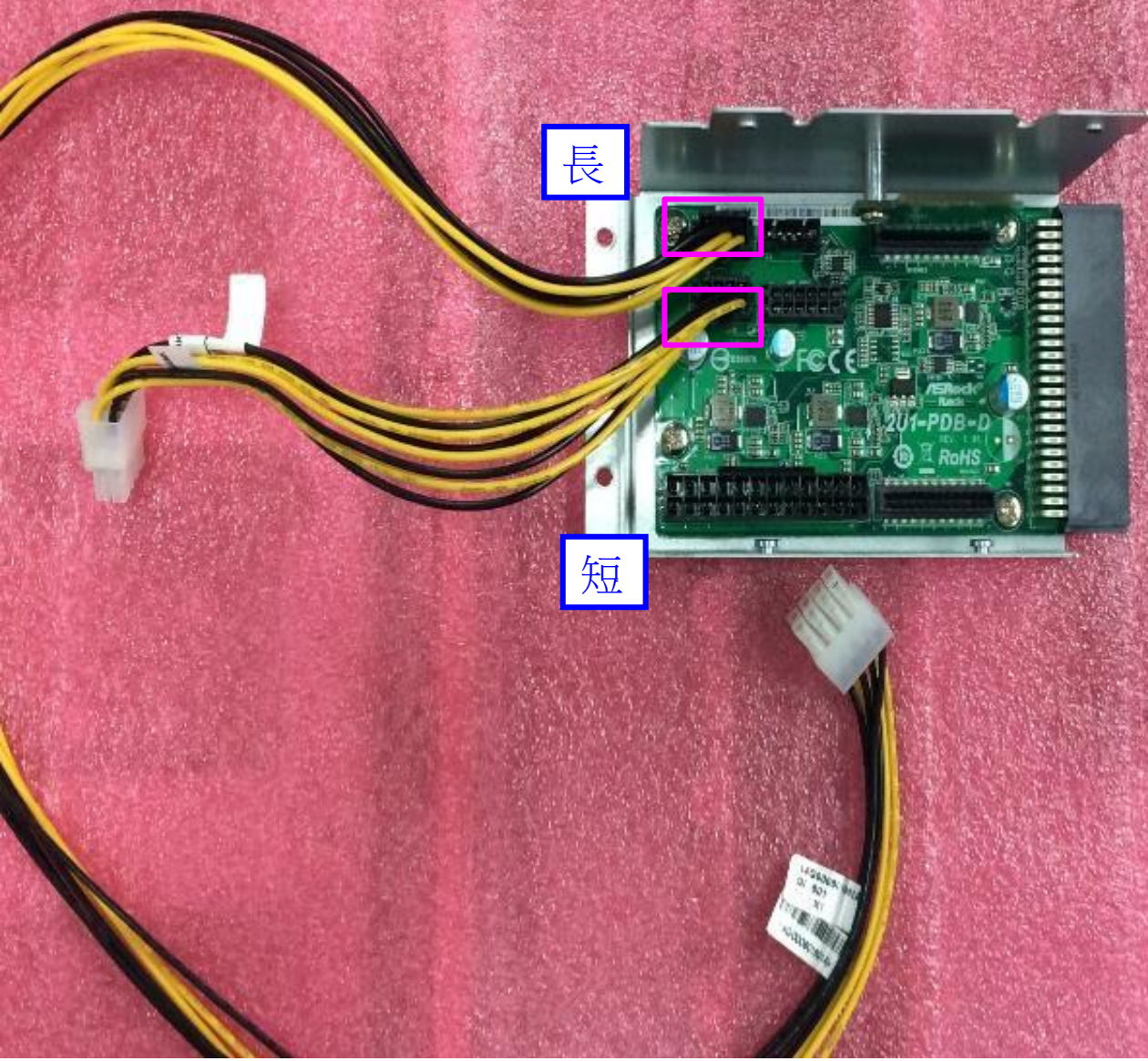
P13

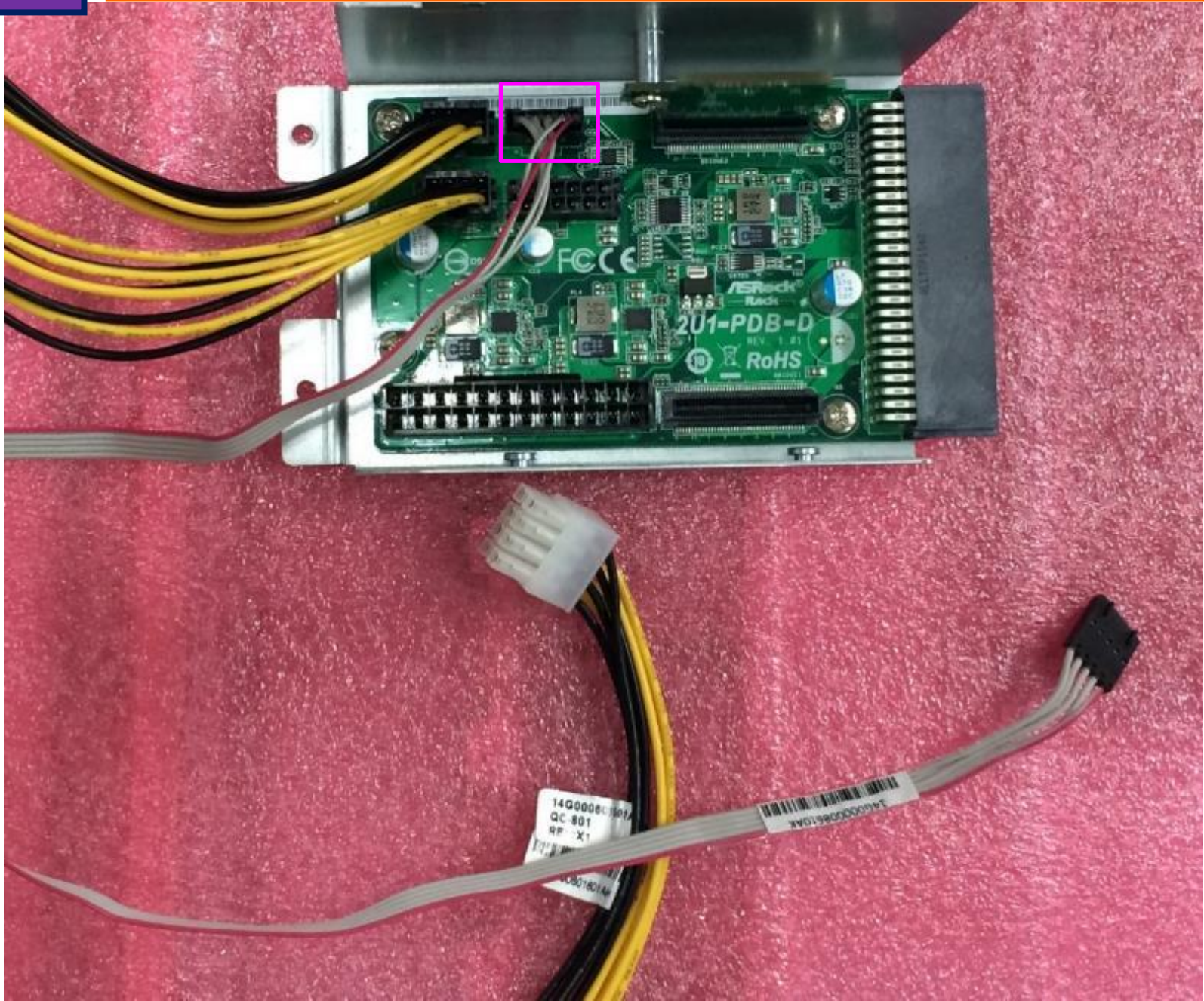
STEP1: 取PDB-B(5RAMPDAUF030)檢視有無不良後掃描條碼
STEP2: 從螺絲包(2RALXX248200)取出皿頭螺絲*1PCS將
PDB-B組於PDB-D並鎖於POWER COVER(上)，注意PDB-B
是否確實卡入PDB-D



P14

取POWER ATX 8PIN長(5RAMW7AUF018)、
短(5RAMW7AUF017) 接於PDB-D





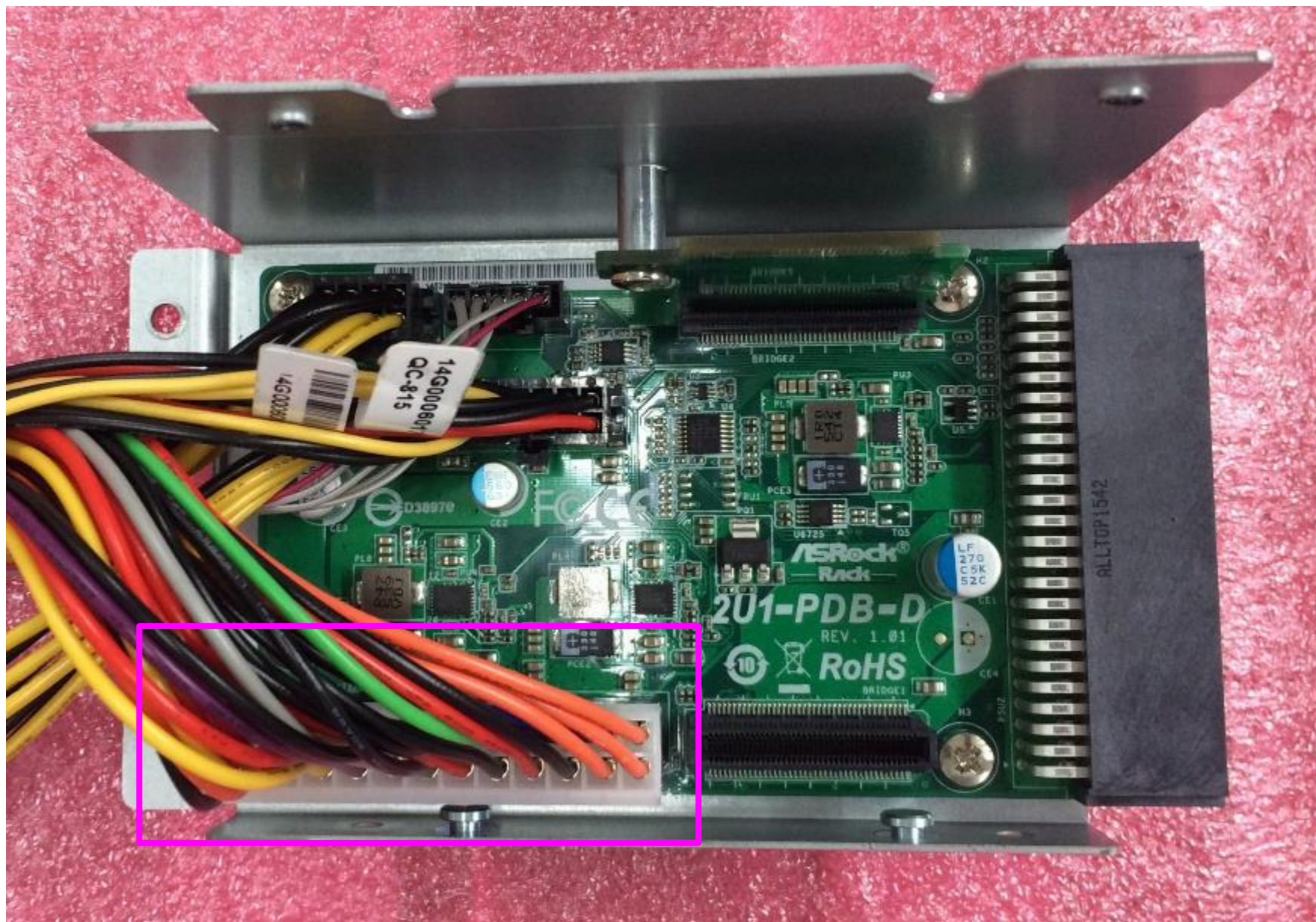
P16

取POWER ATX CABLE 12PIN TO 4*4PIN
(5RAMW7AUF024)接於PDB-D



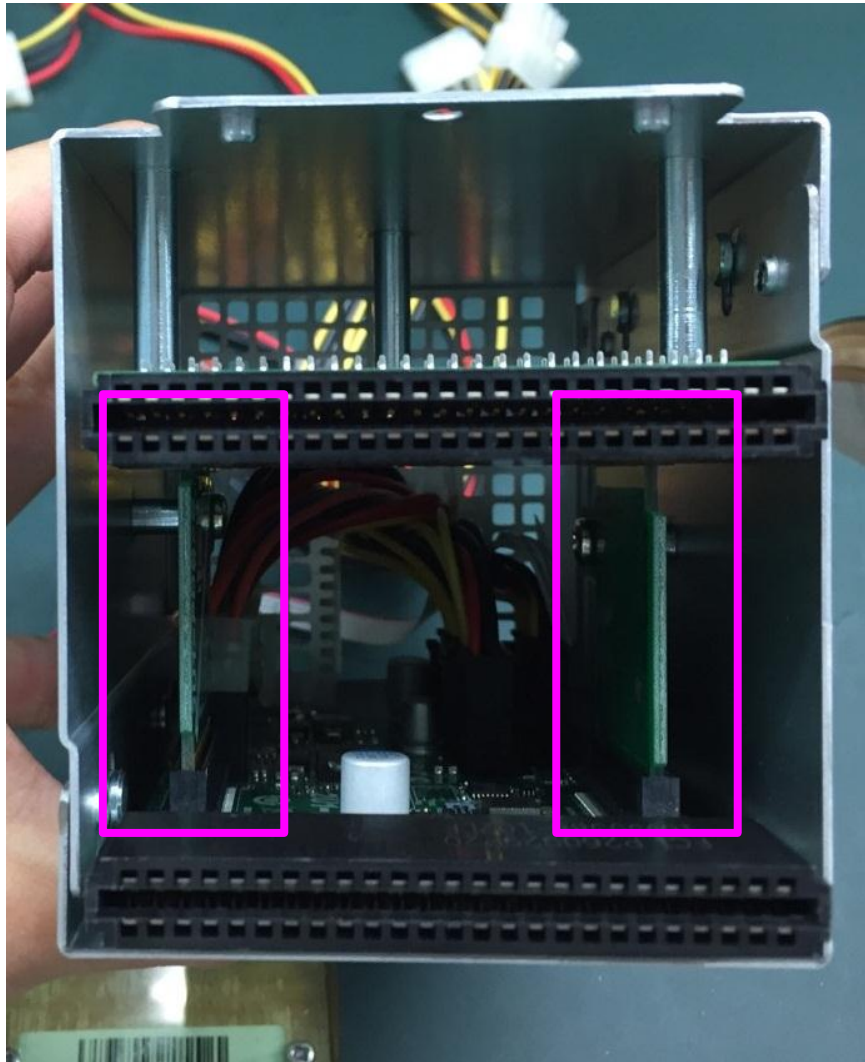
P17

取POWER ATX CABLE 24PIN(5RAMW7AUF022)接於
PDB-D



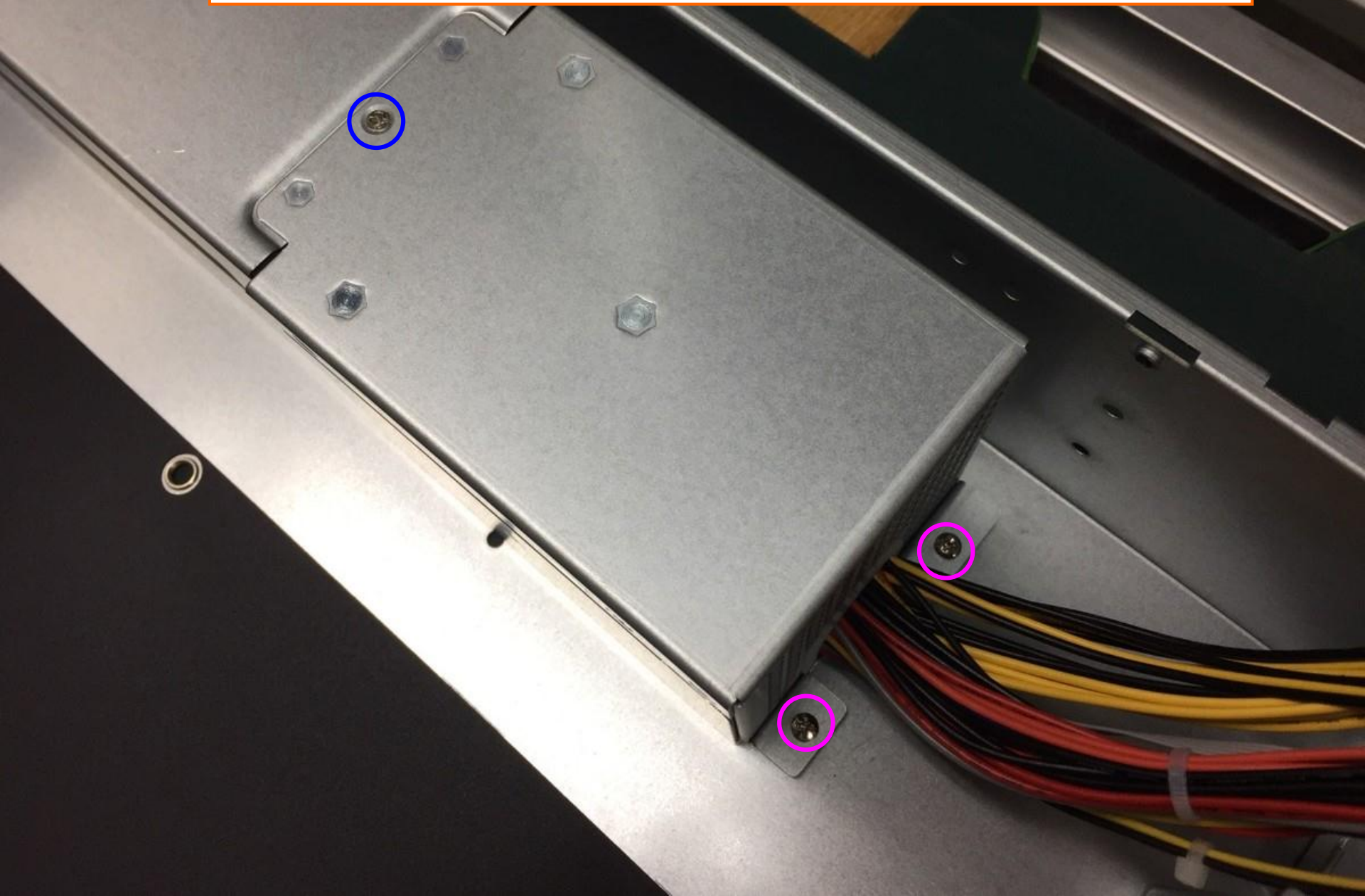
P18

將POWER COVER上、下組合後，以先前取下四顆沉頭*4PCS鎖上，注意組合時PCB需確實卡入



P19

將POWER COVER以先前拆下的兩顆皿頭一顆沉頭螺絲鎖於底座



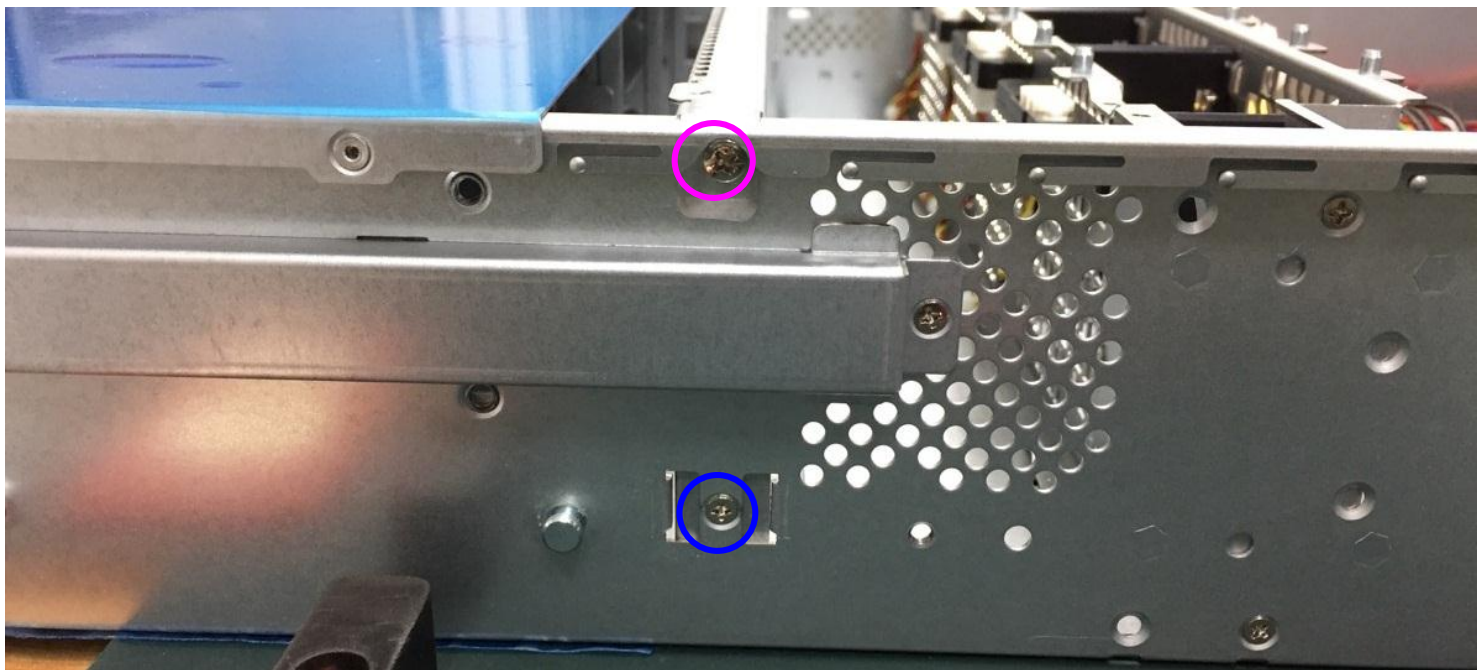
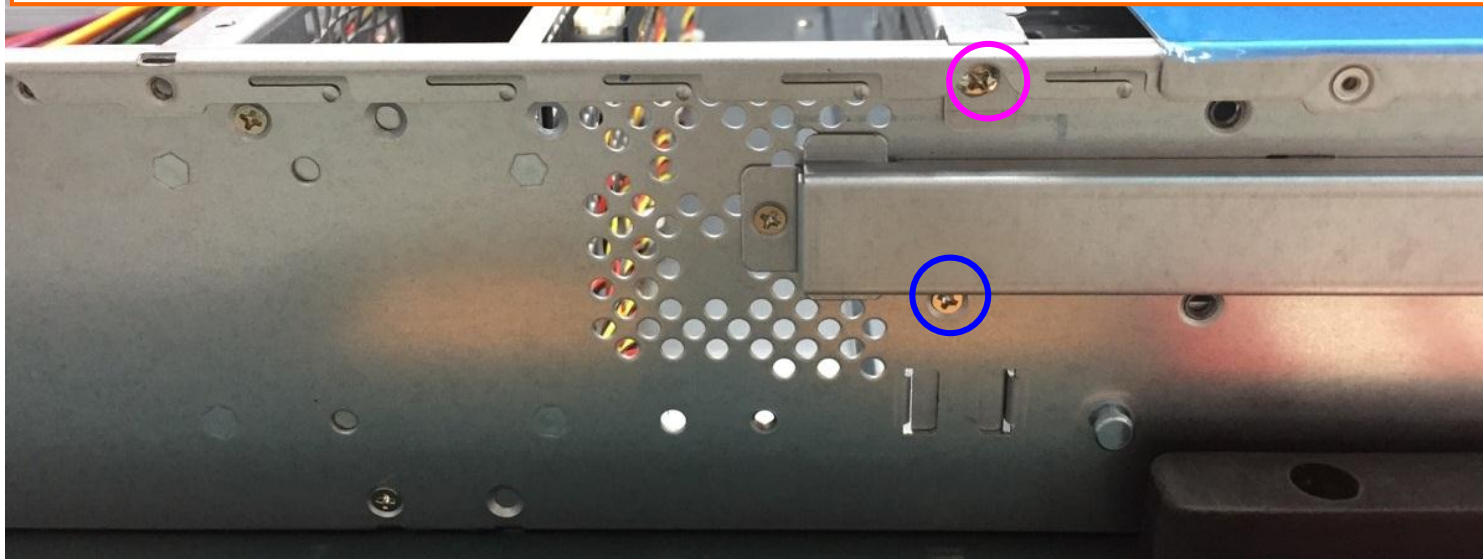
P20

將3.5HDD TRAY*12PCS 抽出一段距離



P21

將電子背板機架左右兩側的兩顆沉頭、兩顆皿頭螺絲拆除



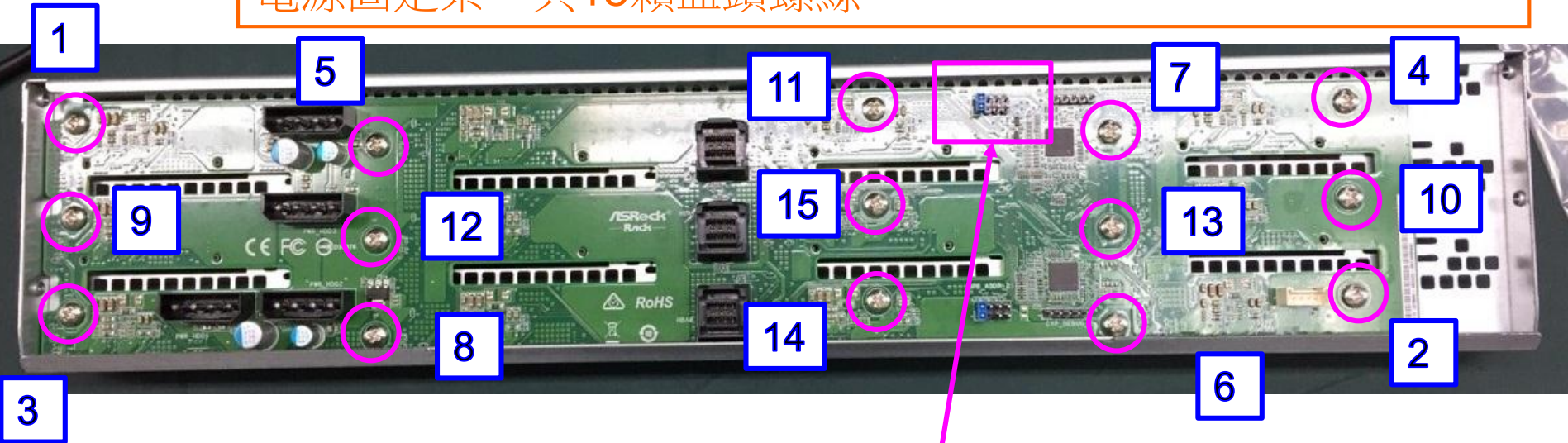
將電子背板機架拆除，共三顆皿頭螺絲



P23

STEP1:檢視2U1-BPB-12L (5RAMVIAUF027)，有無不良，並掃入條碼

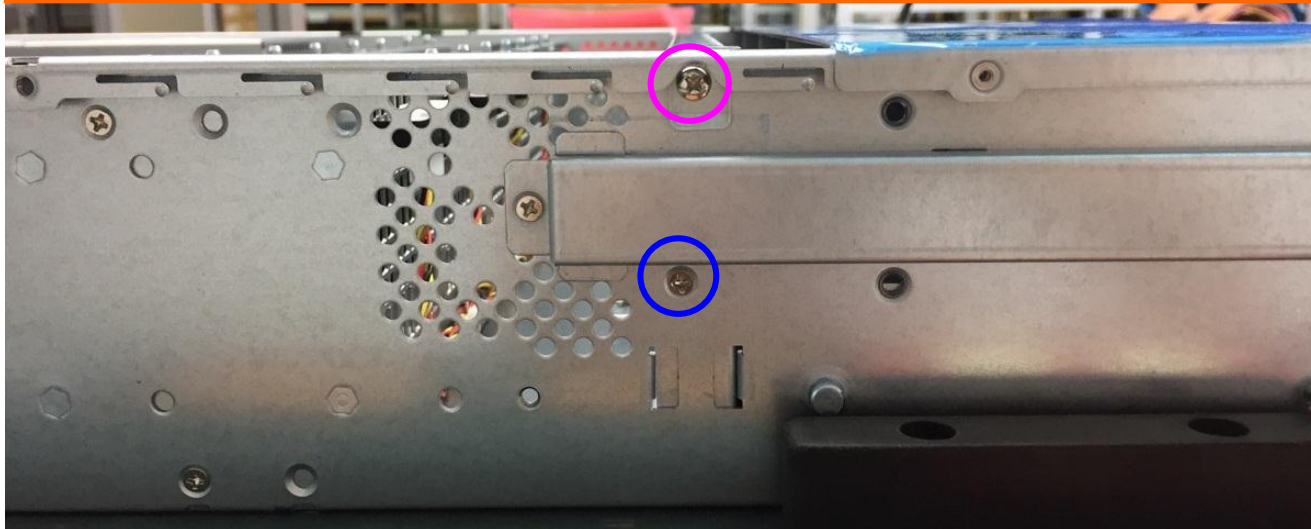
STEP2:使用2RALXX248201螺絲包，將2U1-BPB-8L依序鎖入電源固定架，共15顆皿頭螺絲



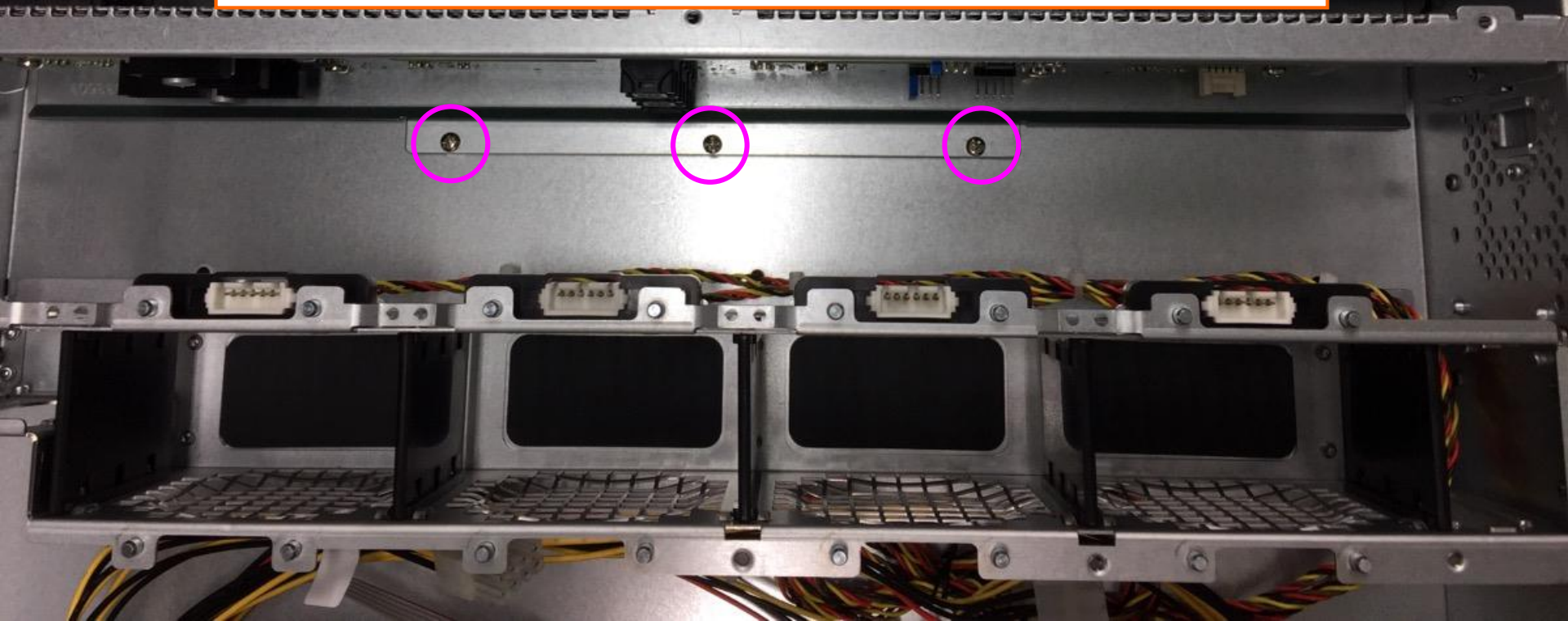
檢視JUMPER是否在指定位置

P24

將電子背板機架左右兩顆沉頭、兩顆皿頭螺絲鎖回底座



將電子背板機架與先前拆下三顆皿頭螺絲鎖回底座



P26

將左耳架及線材固定座拆除，共三顆傘頭、一顆沉頭



P27

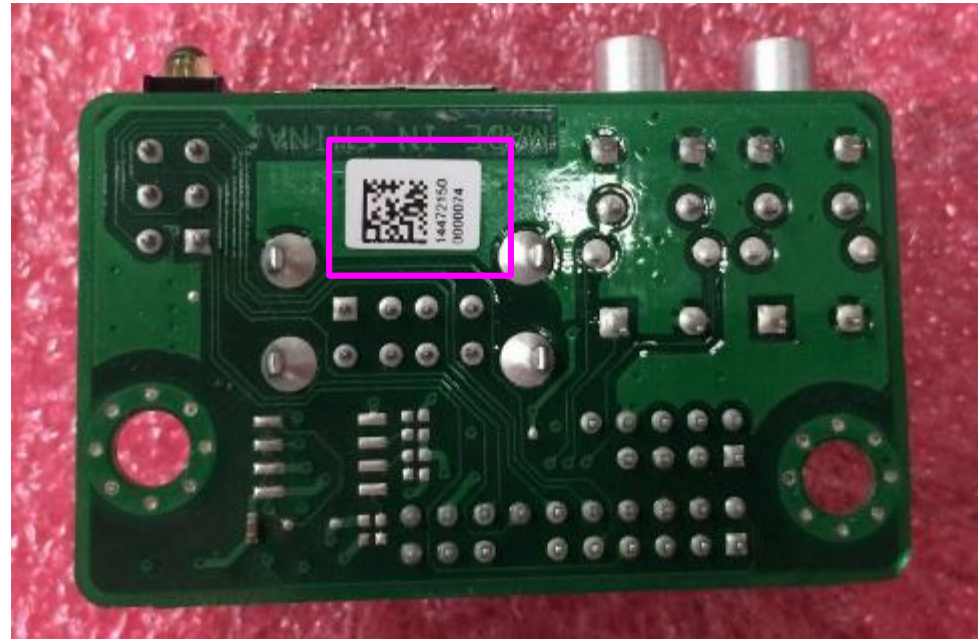
將左耳架拆開，共兩顆L6黑沉頭、三顆L4黑沉頭

L6黑沉頭*2pcs

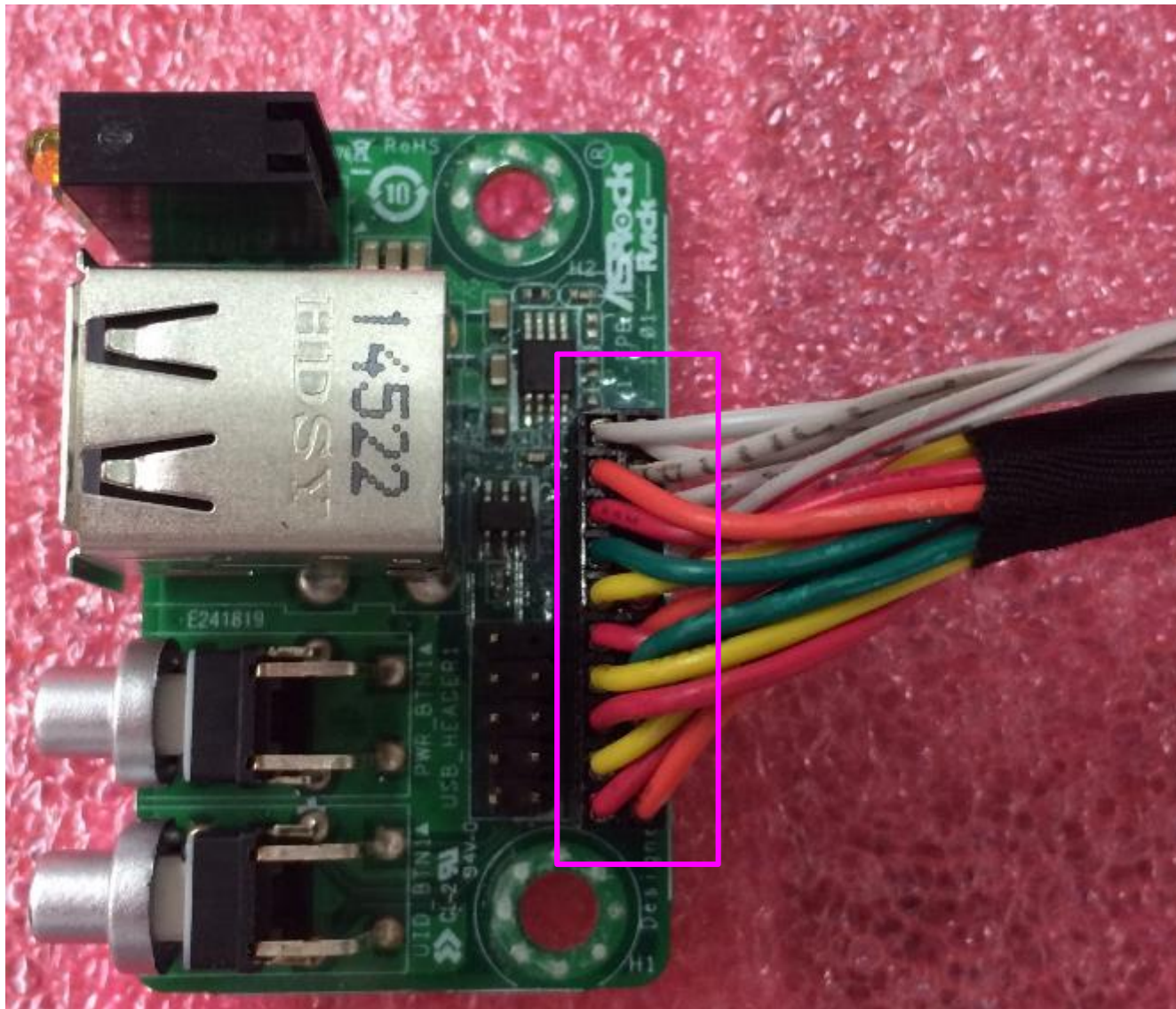


P28

取2U1-FPB(5RAMPDAUF032)檢查外觀有無異常後，掃瞄條碼



取2*10PTO 2*10P+2*5P(5RAMW4AUF037)接於FPB



P30

取2*5P CABLE(5RAMW4AUF036)接於FPB



P31

從螺絲包(2RALXX248201)取皿頭螺絲*2PCS將FPB鎖於
FBP支撐架



P32

取先前拆下之L4黑沉頭
*3PCS將FPB支撐架鎖於
左耳架，注意按鍵需對齊
孔位



P33

STEP1:將先前拆下之L6黑沉頭將左耳架鎖於左耳片
STEP2:將先前拆下之傘頭*3PCS將左耳架鎖於底座後將
2*10PTO 2*10P+2*5P、 2*5P 依圖穿過底座

L6黑沉頭*2pcs



注意線材需照圖式排列

P34

將2*5P 依圖穿過底座



P35

將先前拆下沉頭*1PCS與線材固定座鎖於底座

注意不可壓到線材



P36

將右耳架及線材固定座拆除，共三顆傘頭、一顆沉頭



P37

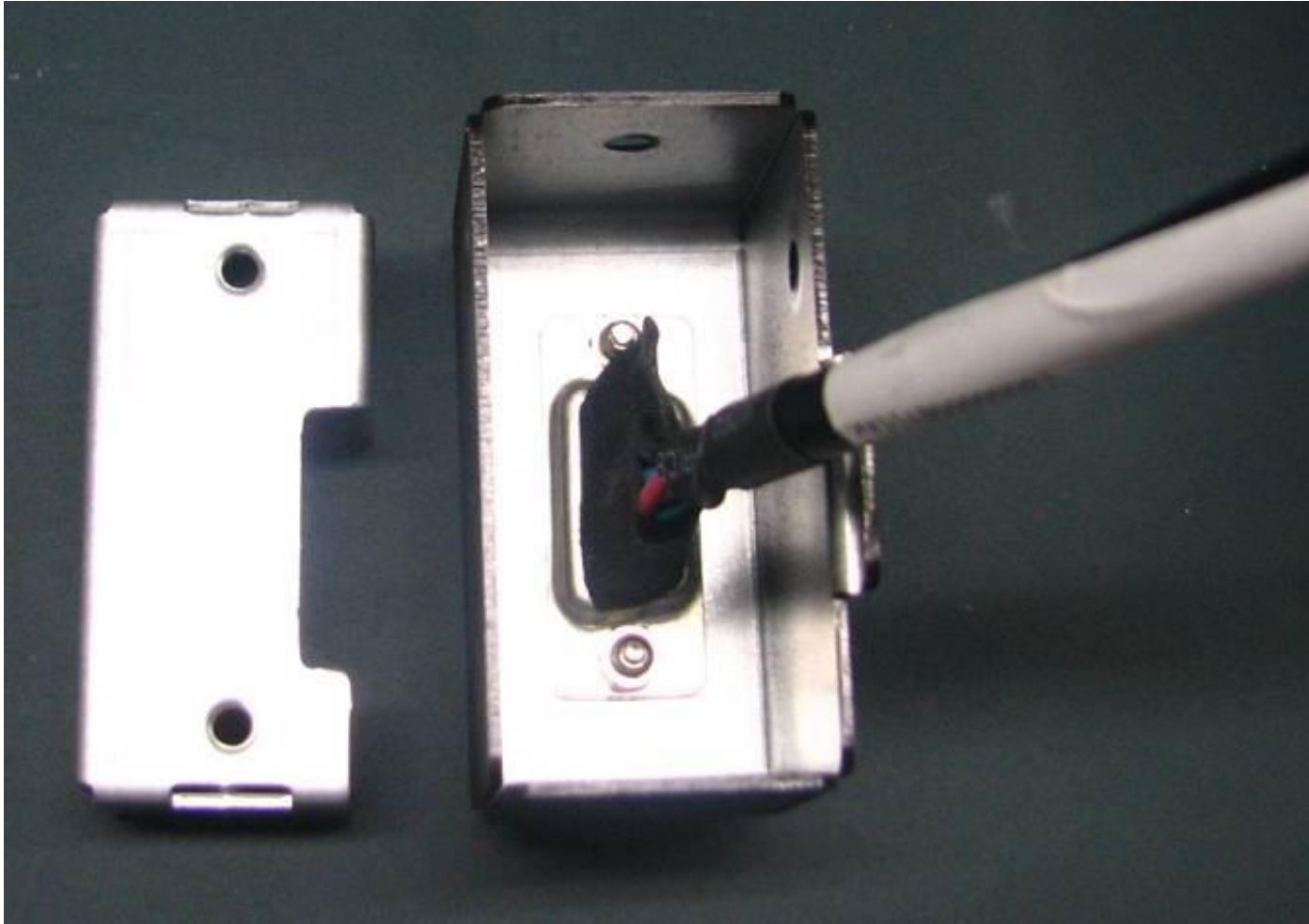
將右耳架拆開，共兩顆L6黑沉頭、四顆L4黑沉頭



P38

DB15 TO 2*8P (5RAMW4AUF038) L850線材以線材內附六角螺柱固定在VGA CAGE





P40

L4黑沉頭*4pcs



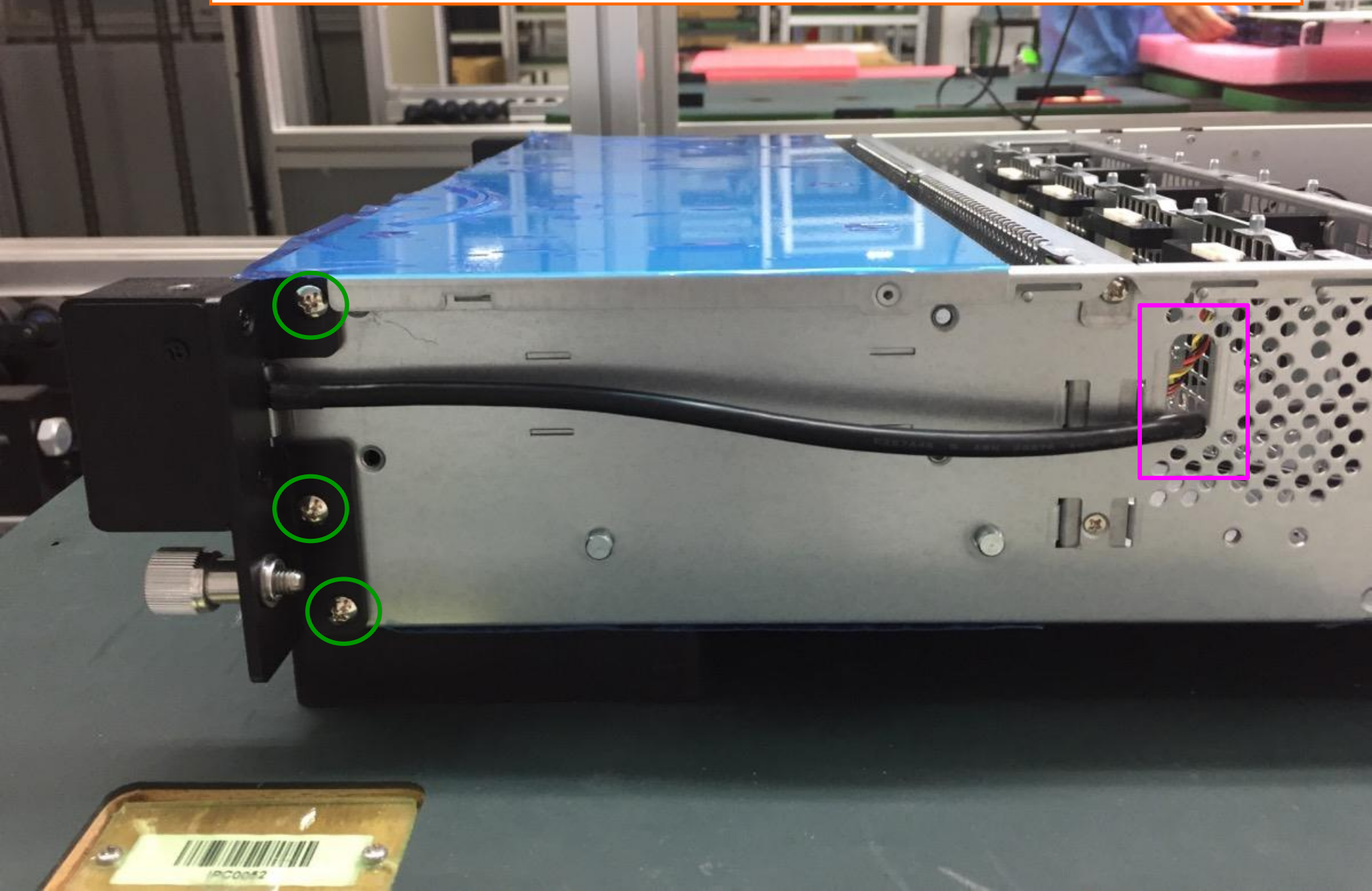
取先前拆下之L4黑沉頭*4PCS、L6黑沉頭*2PCS將VGA CAGE鎖於右耳架

L6黑沉頭*2pcs



P41

將先前拆下之傘頭*3PCS將右耳架鎖於底座後將VGA CABLE依圖穿過底座



IPC0052

P42

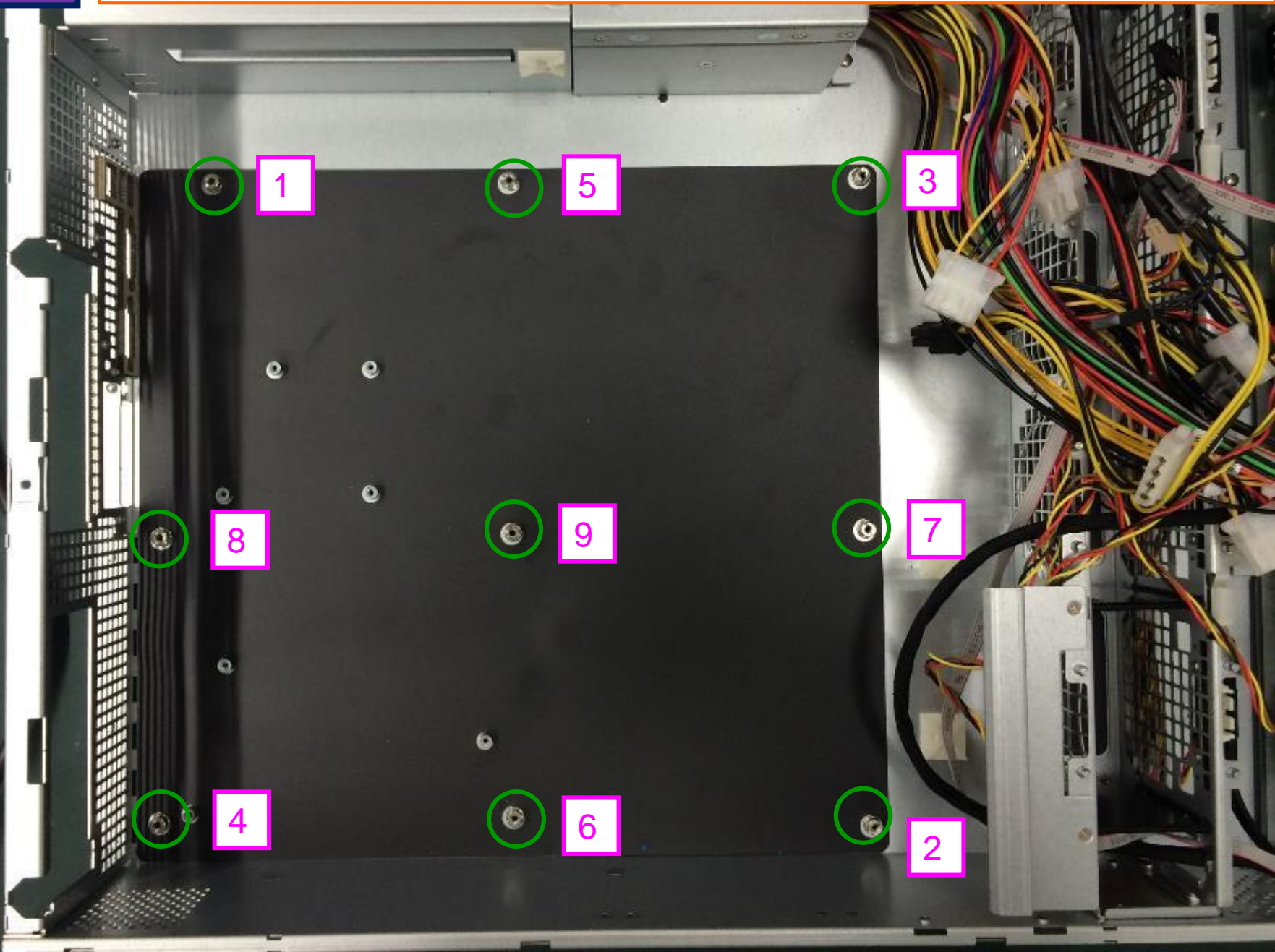
將先前拆下沉頭*1PCS與線材固定座鎖於底座

注意不可壓到線材



P43

從螺絲包(2RALXX281000)取出半截螺柱*9PCS依序鎖於底座





FH-C612NM
P1.10

FH-C612NM
P1.10

確認JUMP SITTING跳至正確位置

CHASSIS_ID1
CHASSIS_ID2
BIOS_SEL1
CHASSIS_ID3

BMC F/W
P0.10.00

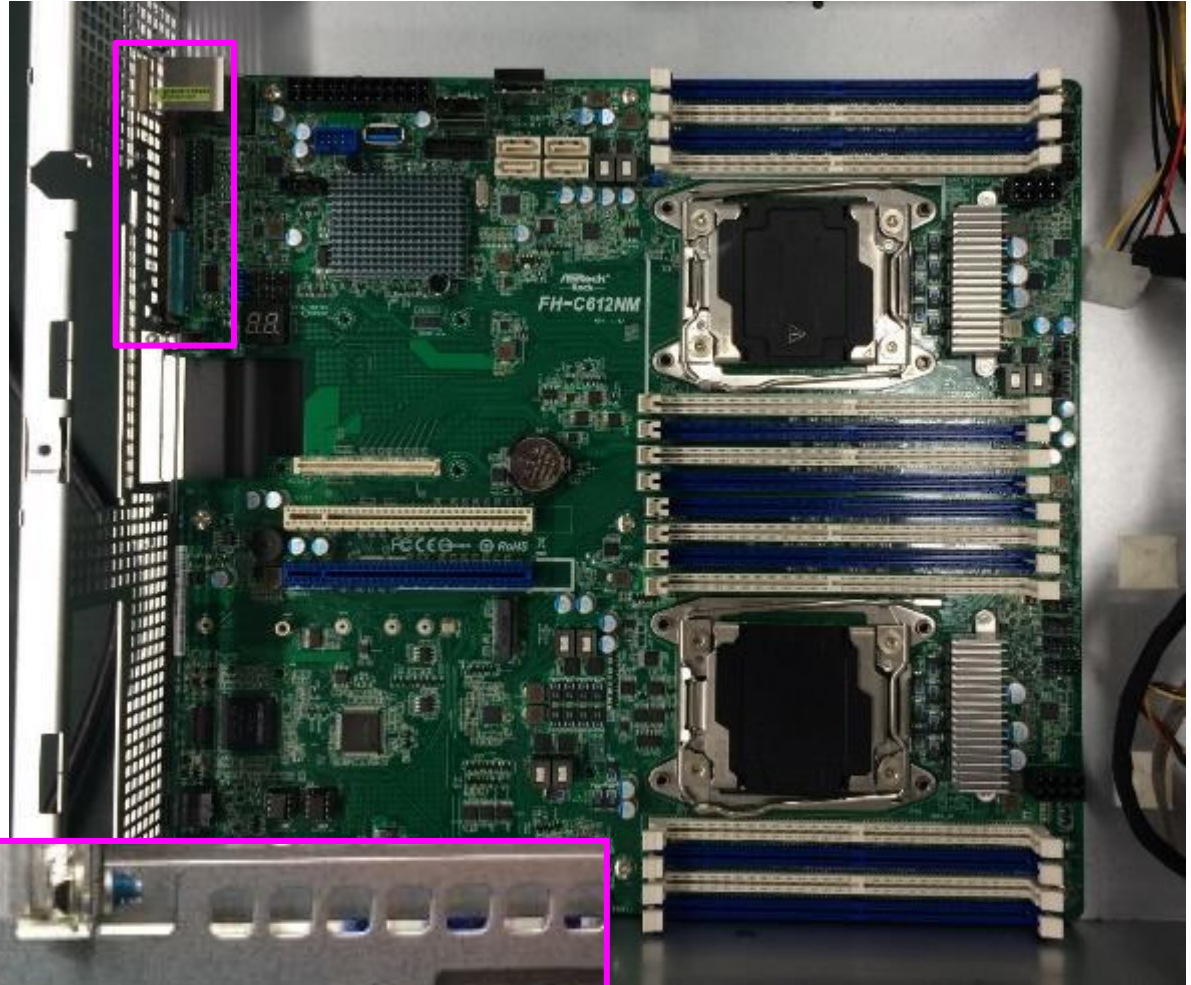
H5
H22

BMC_SMB1
BMC_SMB2
IPMB1

CHASSIS_ID2
NMI_BTN1
J100
TR1
DEBUG1
ME_RECOVERY1

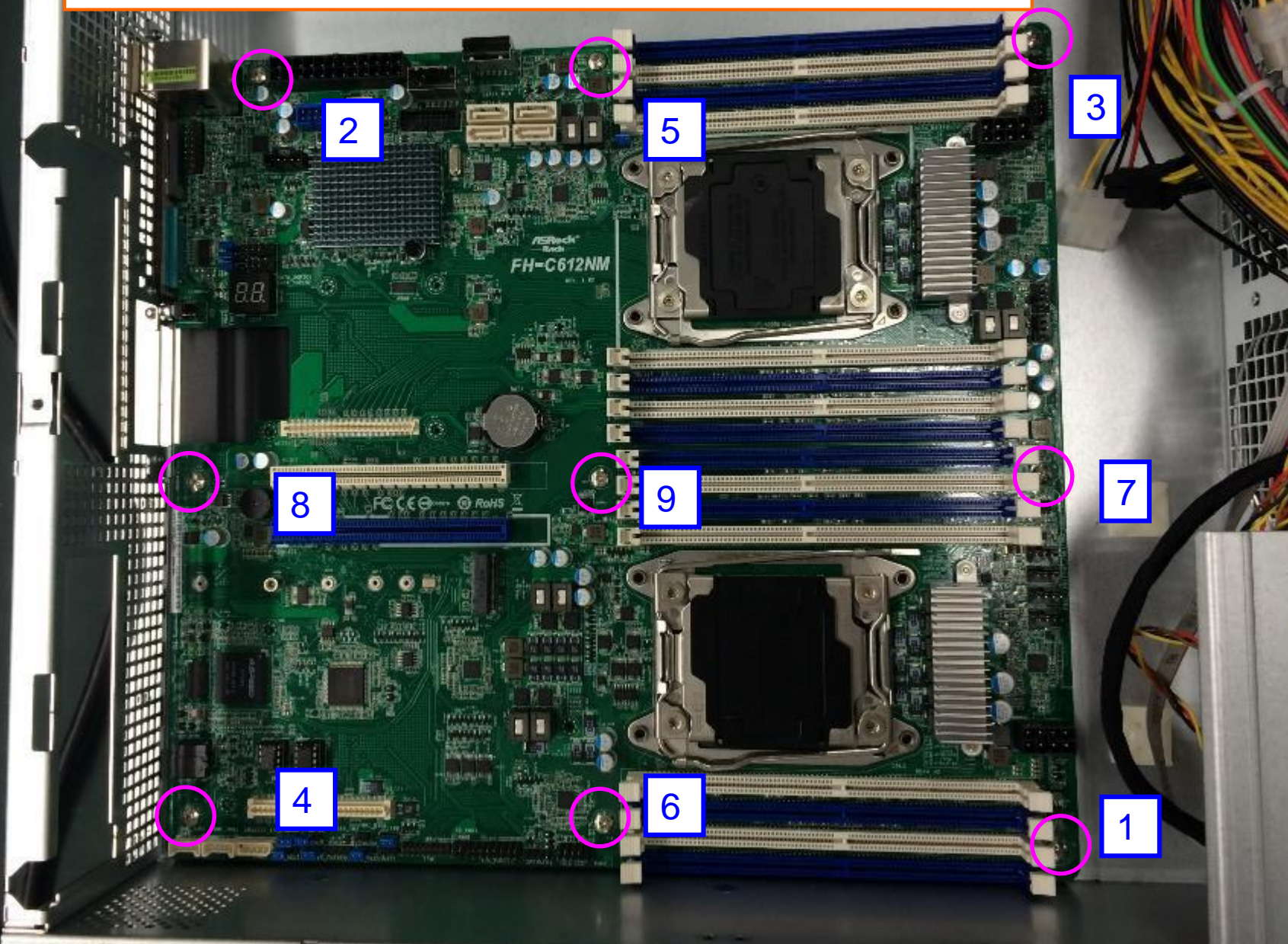
P46

將M/B放入底座，注意是否與I/O孔位對齊

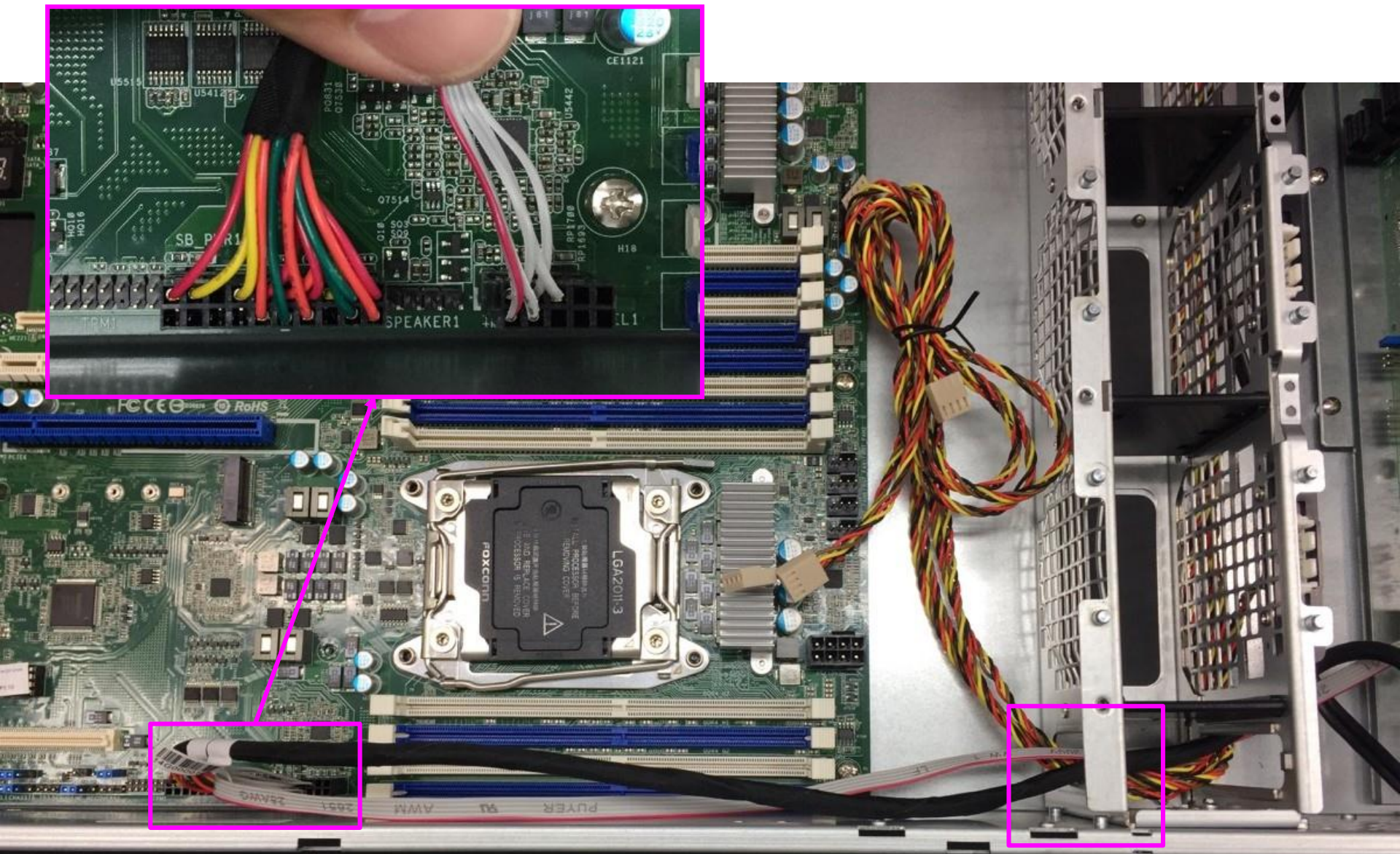


P47

從螺絲包(2RALXX247000)取出皿頭螺絲*9PCS
將M/B鎖於底座



將2*10PTO 2*10P+2*5P穿過風扇機架後接於M/B

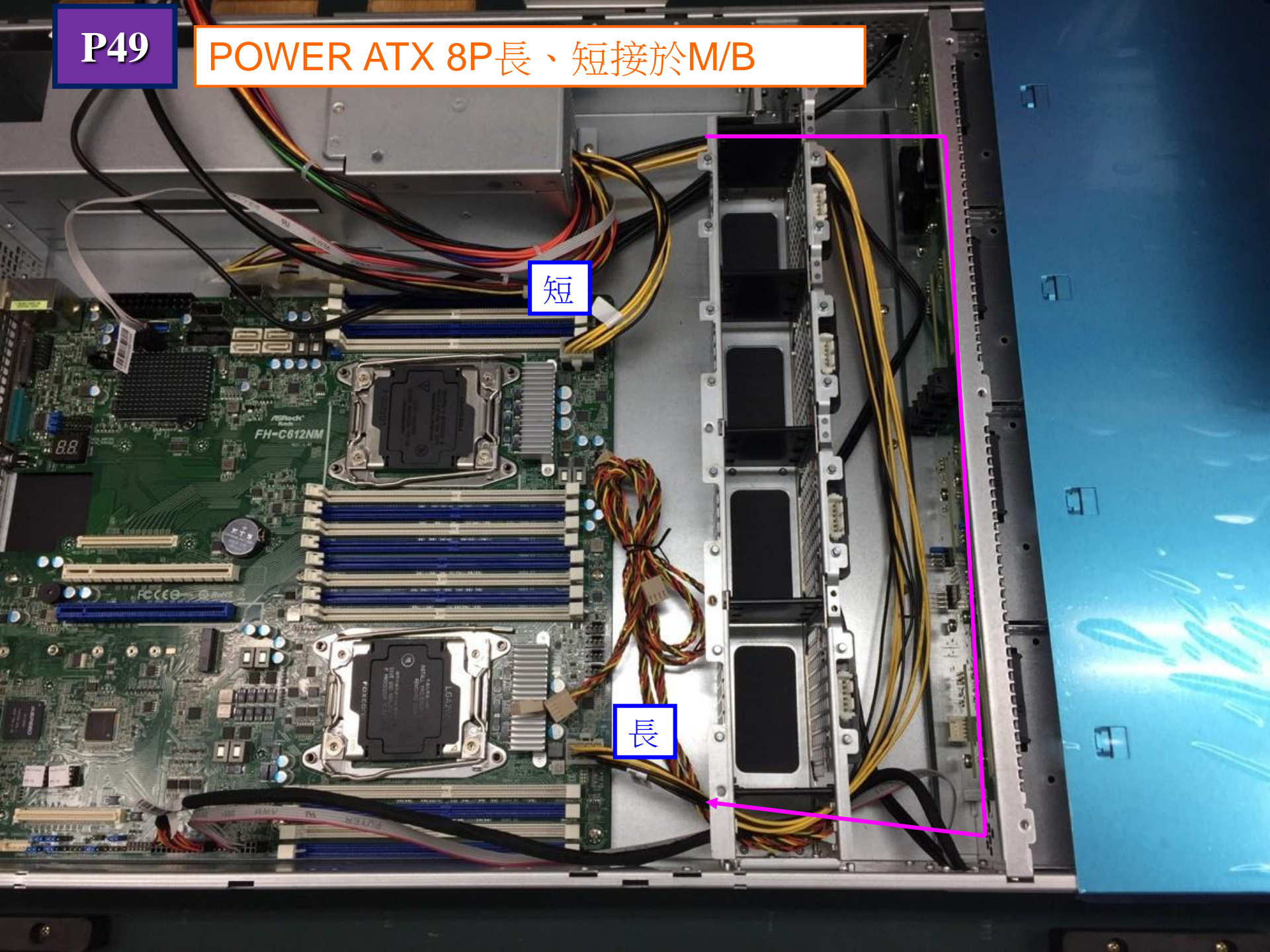


P49

POWER ATX 8P長、短接於M/B

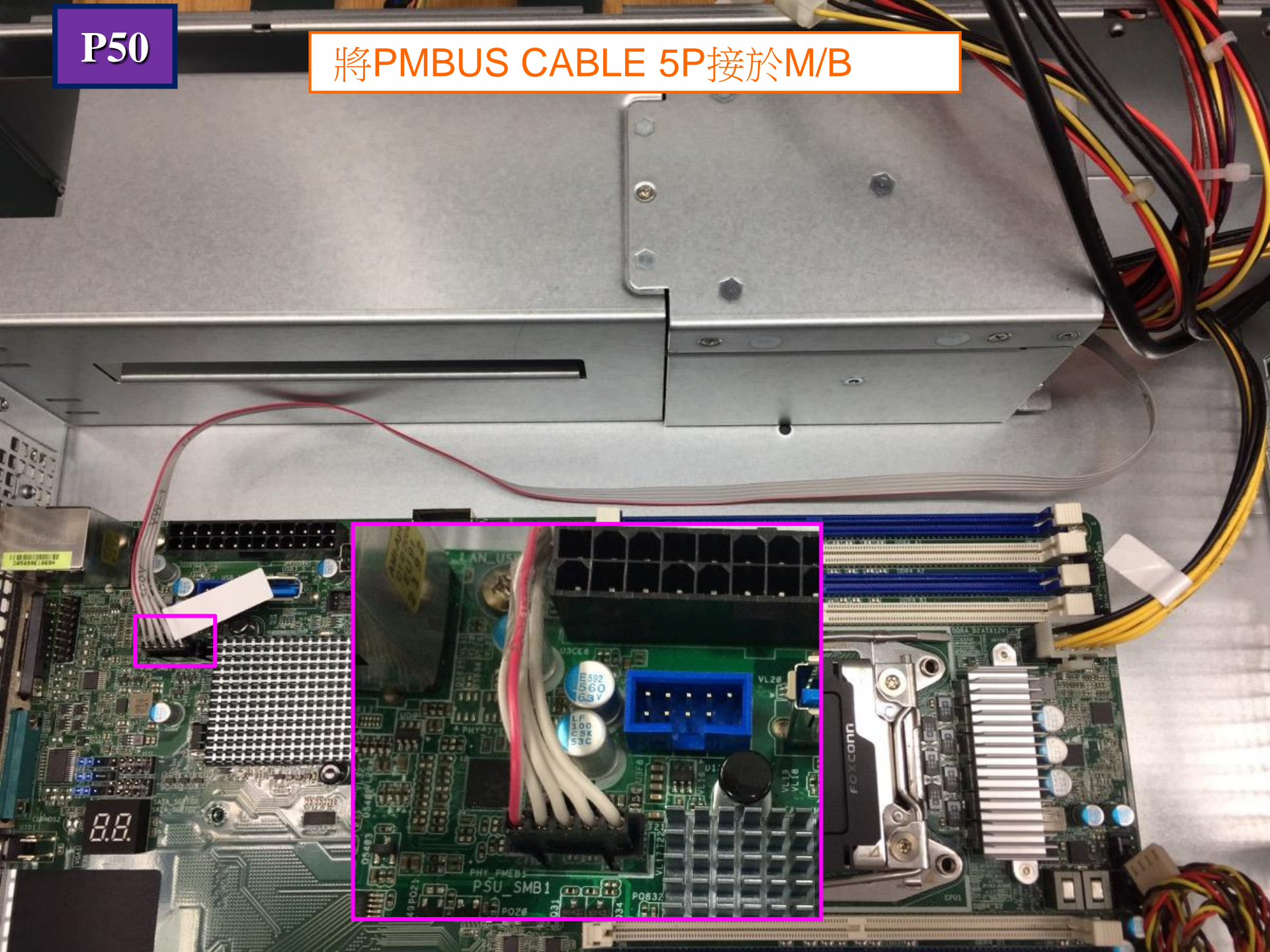
短

長

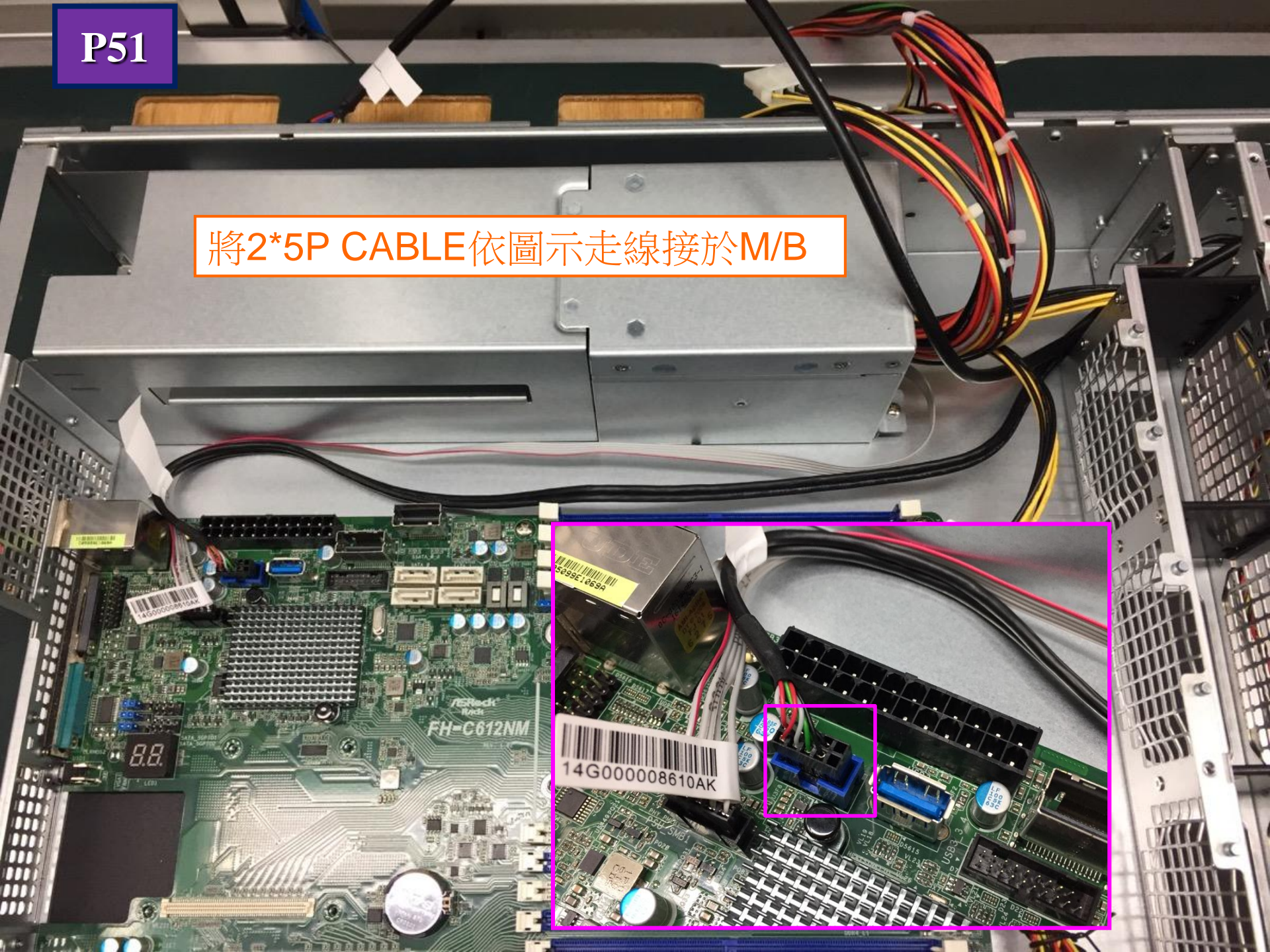


P50

將PMBUS CABLE 5P接於M/B

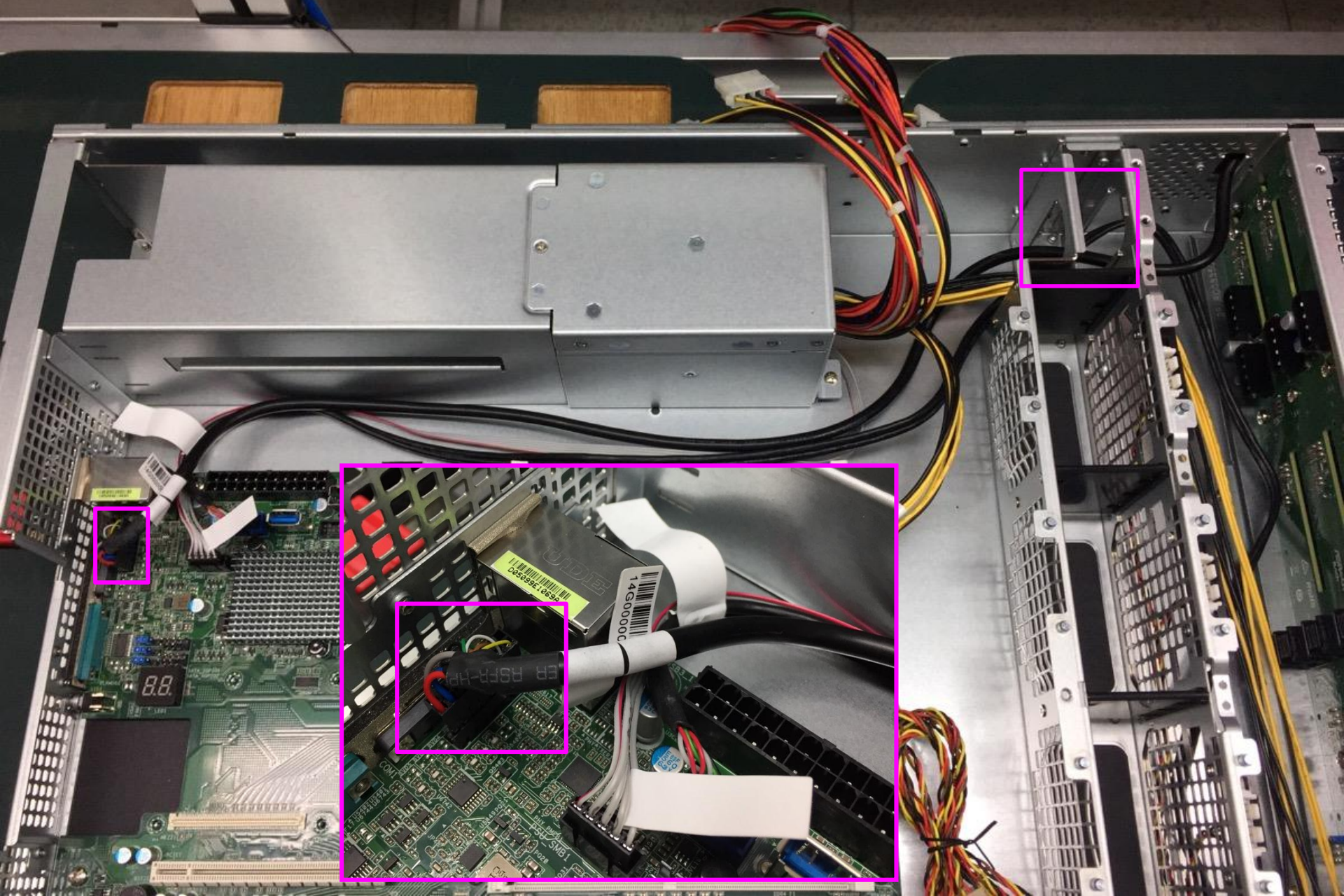


將2*5P CABLE依圖示走線接於M/B



P52

將DB15 TO 2*8P依圖穿過風扇機架後接於M/B



取POWER 24P接於M/B



P54

取POWER ATX 3.0 12PIN TO 4*4PIN穿過風扇架，並接於BPB上

短

中

1

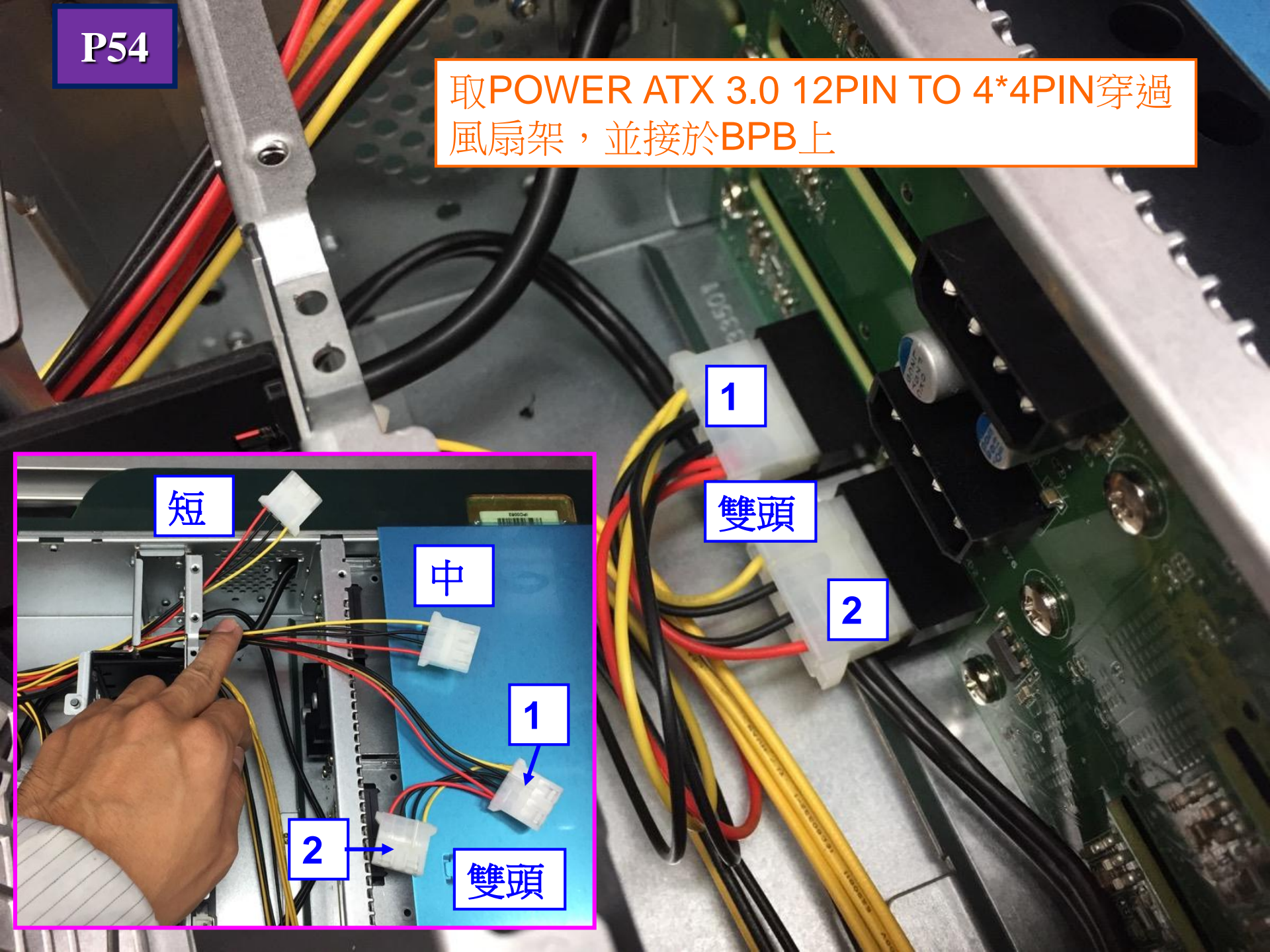
2

雙頭

1

雙頭

2



P55

取POWER ATX 3.0 12PIN TO 4*4PIN
將短的大4PIN接於BPB上

短

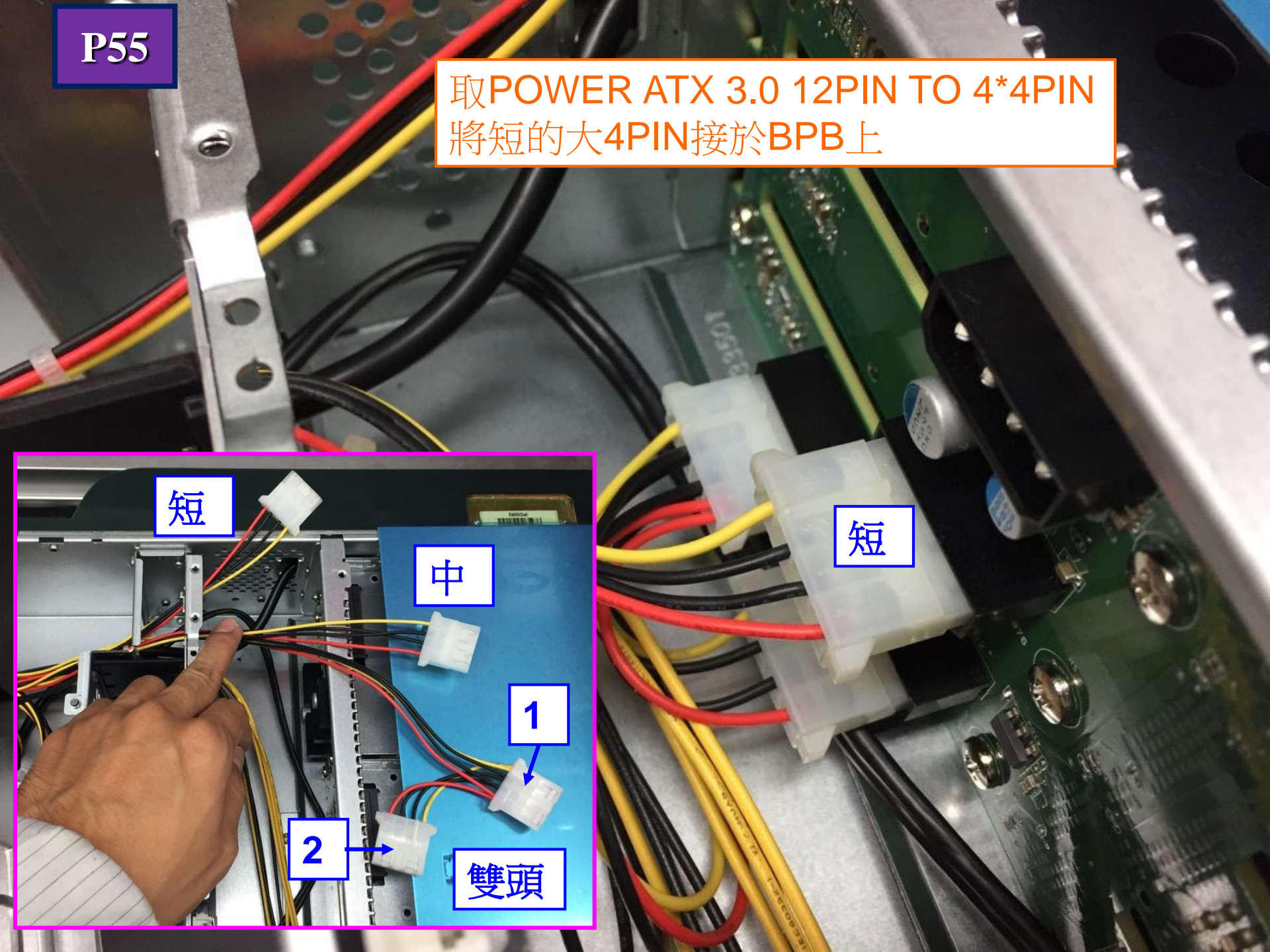
中

1

2

雙頭

短



P56

取POWER ATX 3.0 12PIN TO 4*4PIN
將中的大4PIN接於BPB上

中

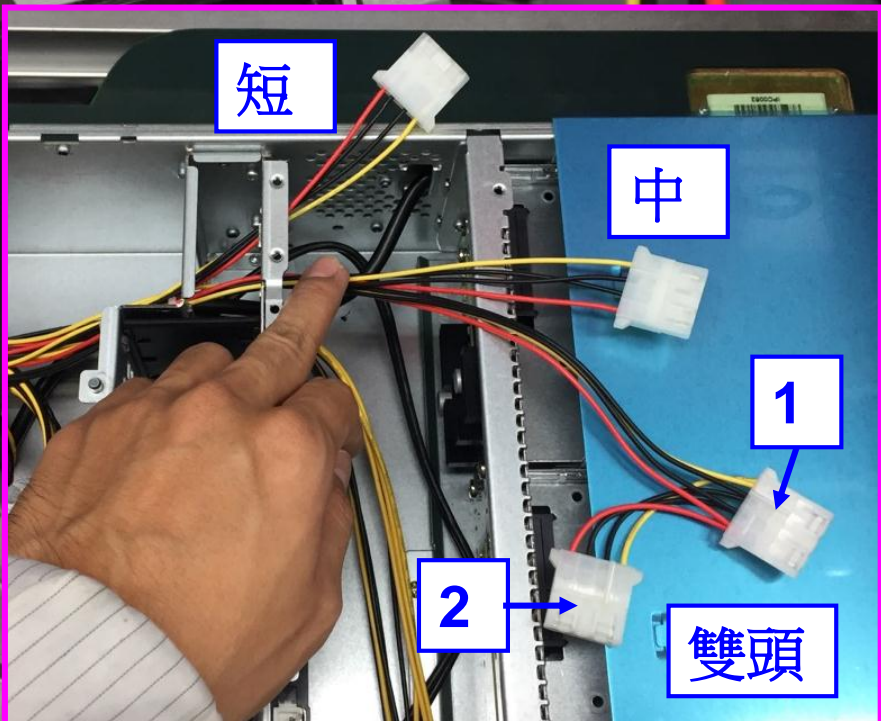
短

中

1

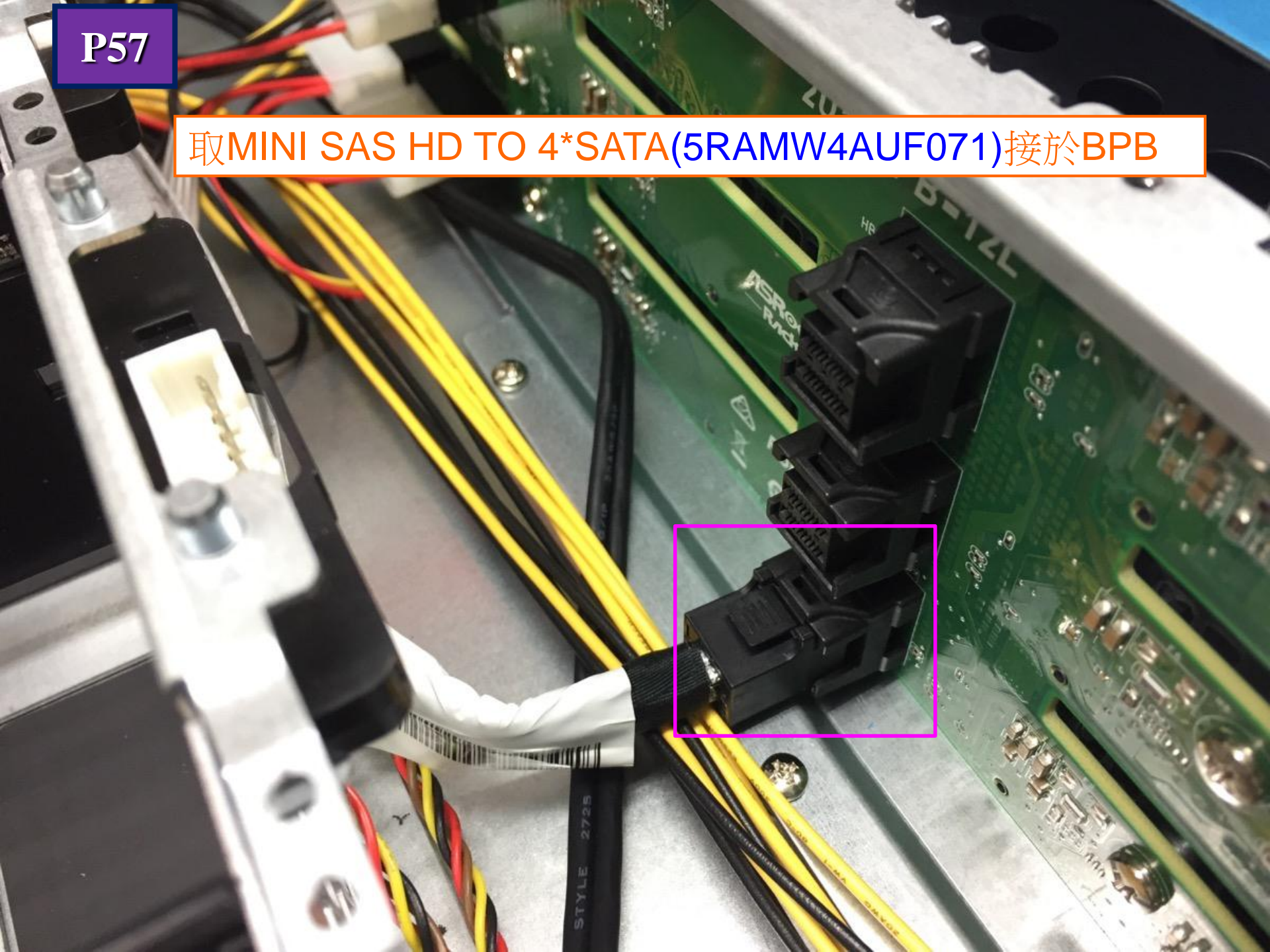
2

雙頭



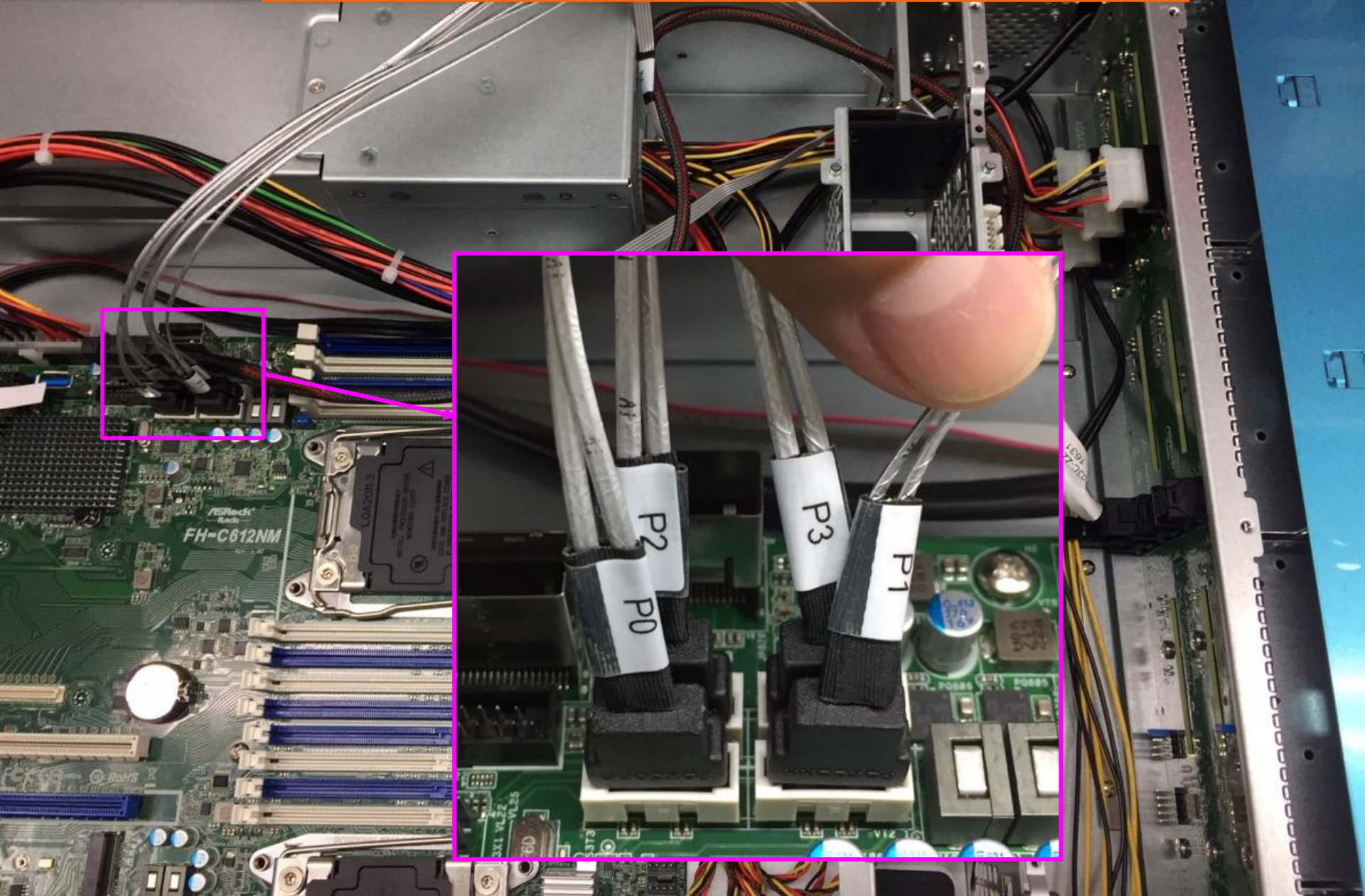
P57

取MINI SAS HD TO 4*SATA(5RAMW4AUF071)接於BPB



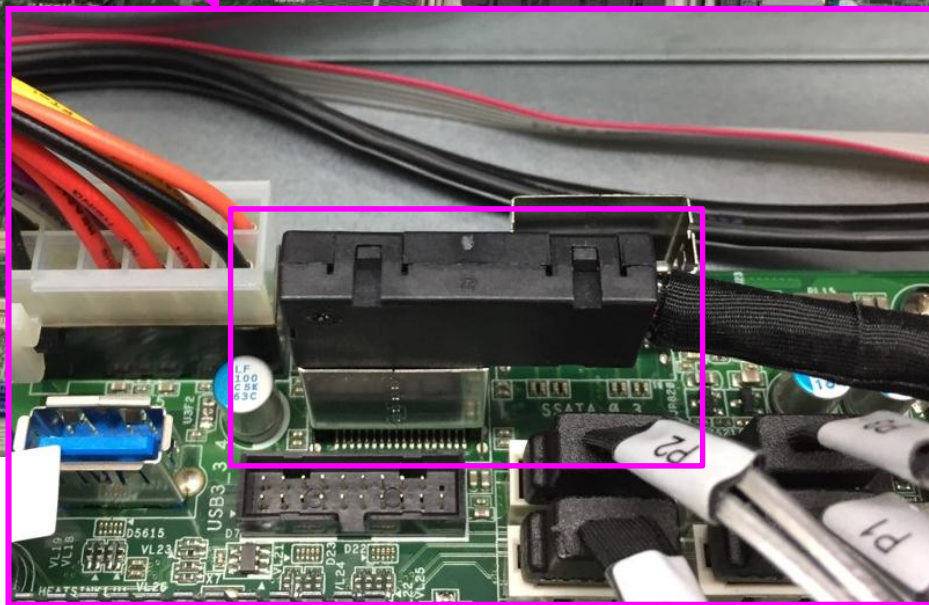
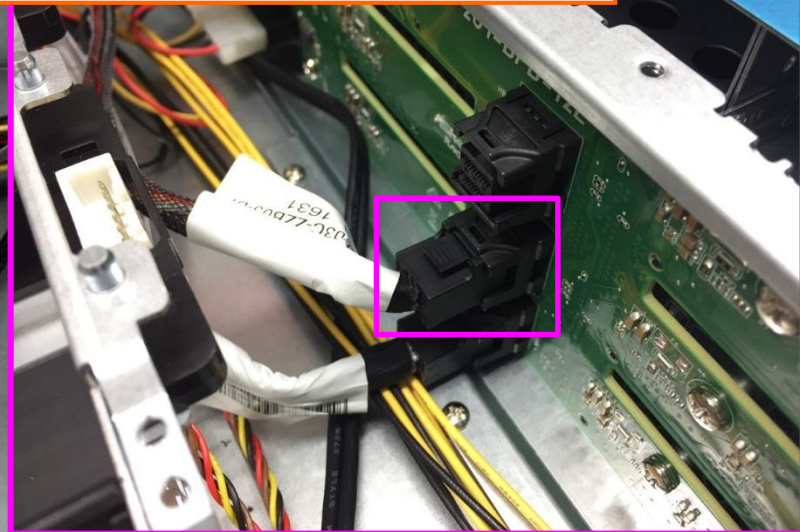
P58

取MINI SAS HD TO 4*SATA(5RAMW4AUF071)
穿過風扇架，並依圖示接在MB上



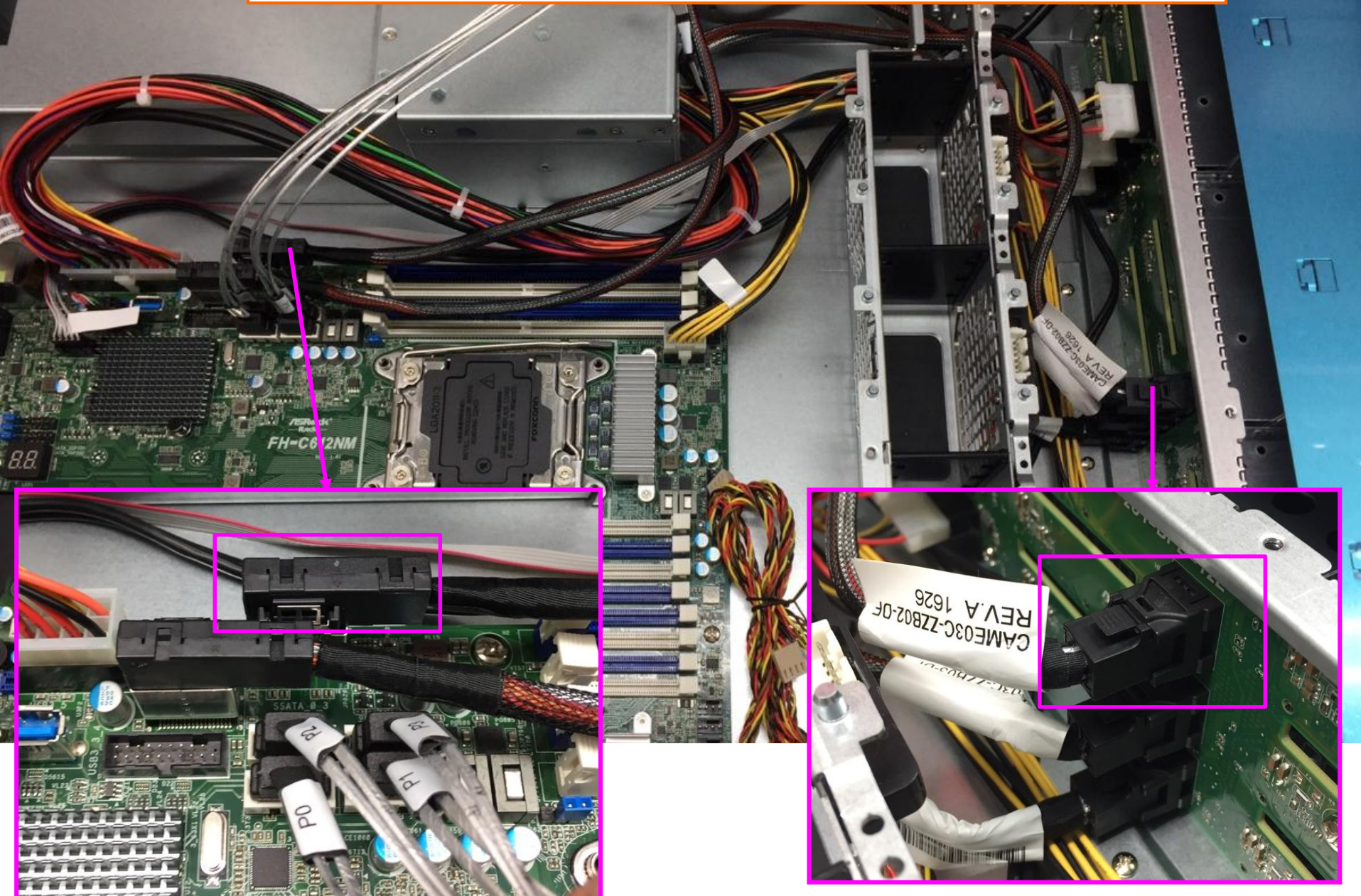
P59

取MINISAS HD TO 8087(L/A) (5RAMW6AUF030)
穿過風扇架，並依圖示接在MB及BPB上



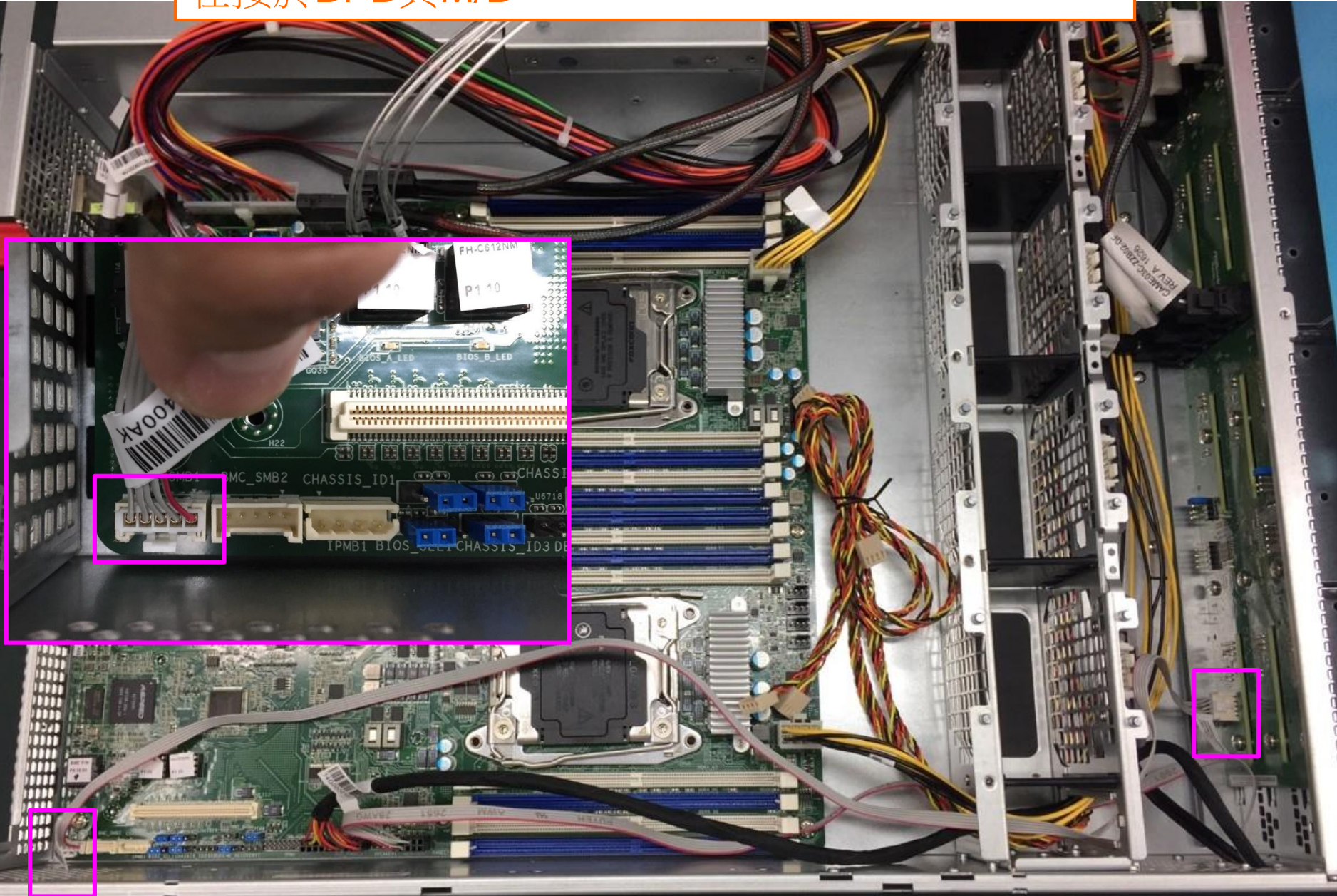
P60

取MINISAS HD TO 8087(L/A) (5RAMW6AUF026)
穿過風扇架，並依圖示接在MB及BPB上

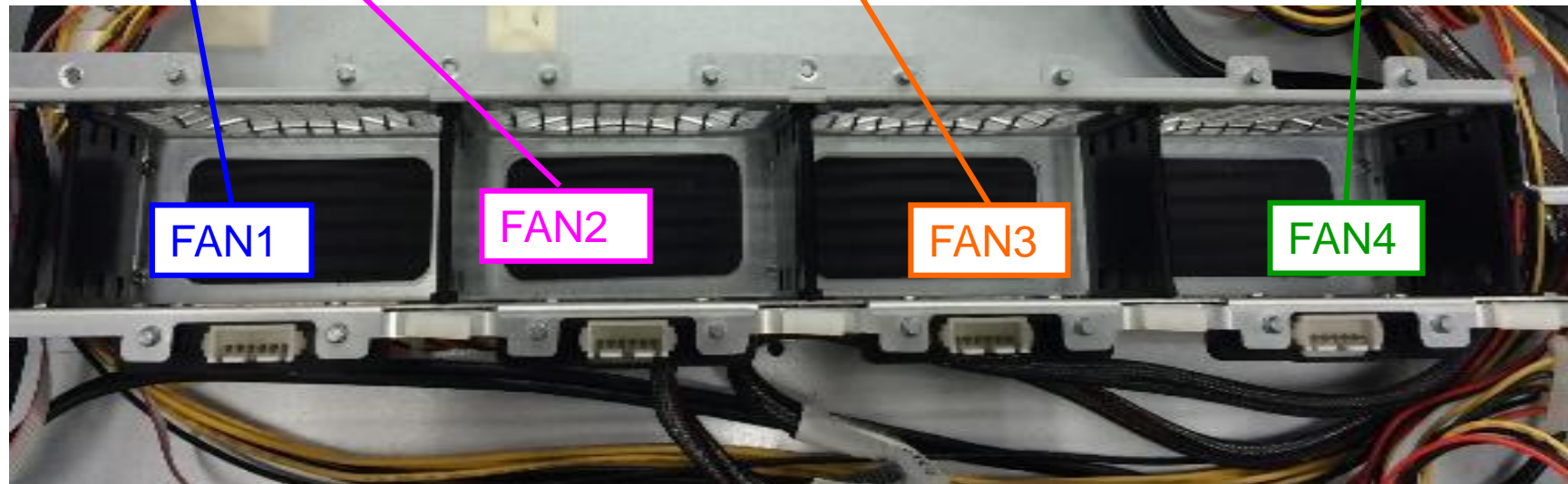
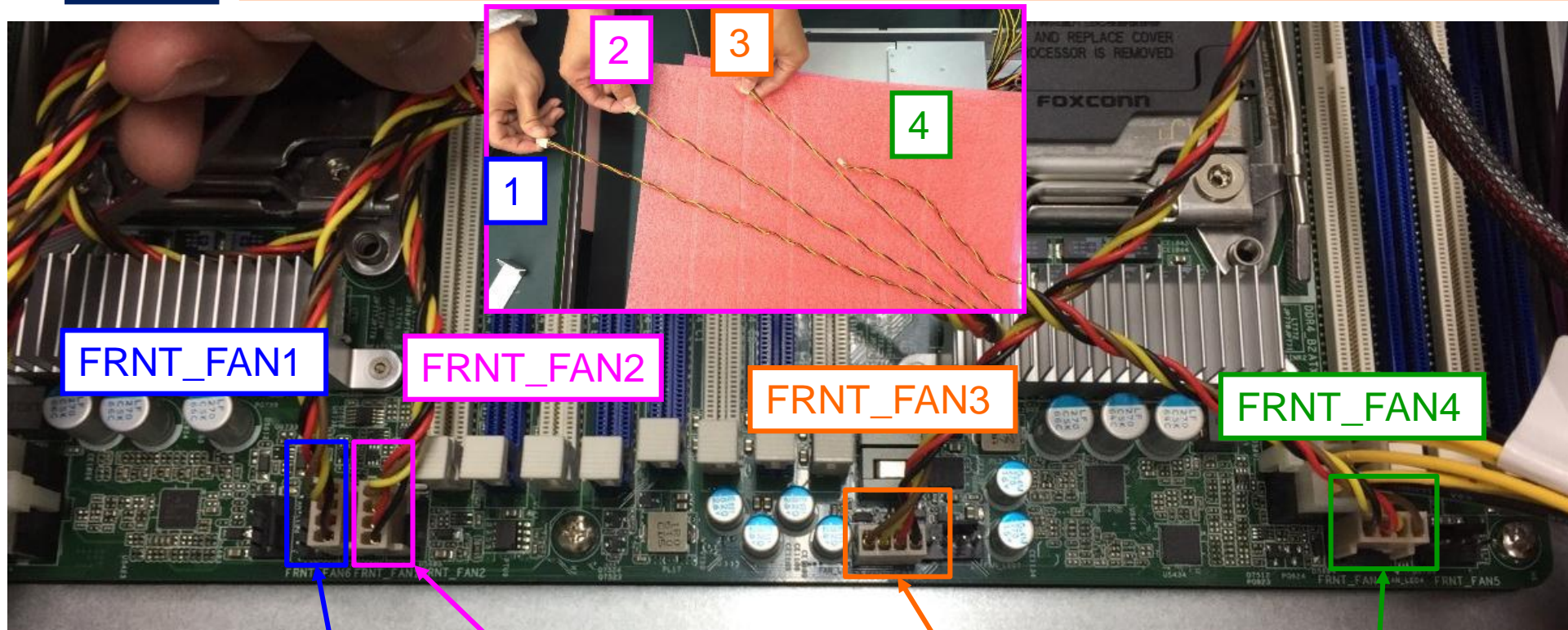


P61

取SMBUS CABLE(5RAMW6AUF009)穿過風扇架，
在接於BPB與M/B

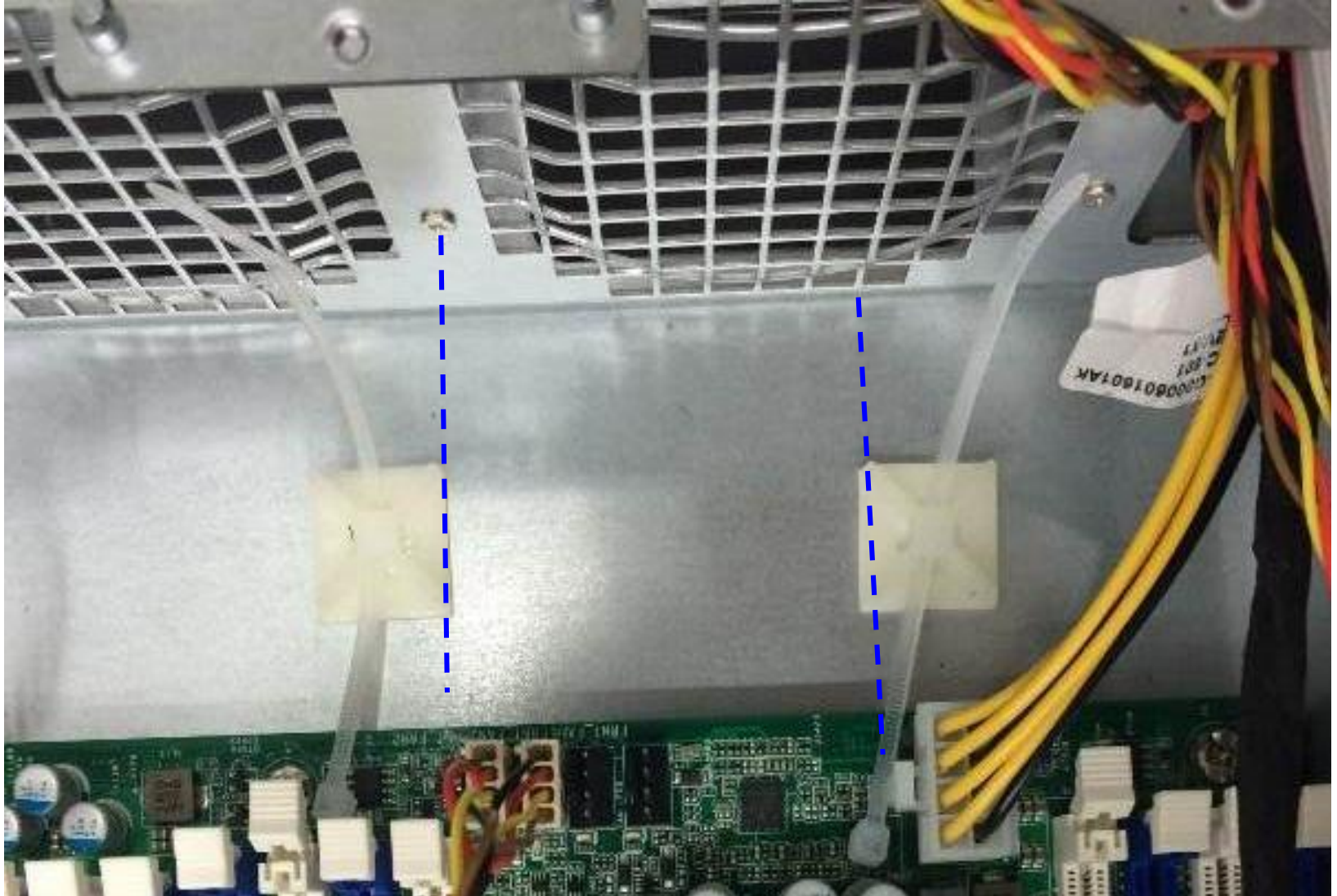


將風扇轉接線接於M/B，注意需確認插槽及印刷位置是否正確



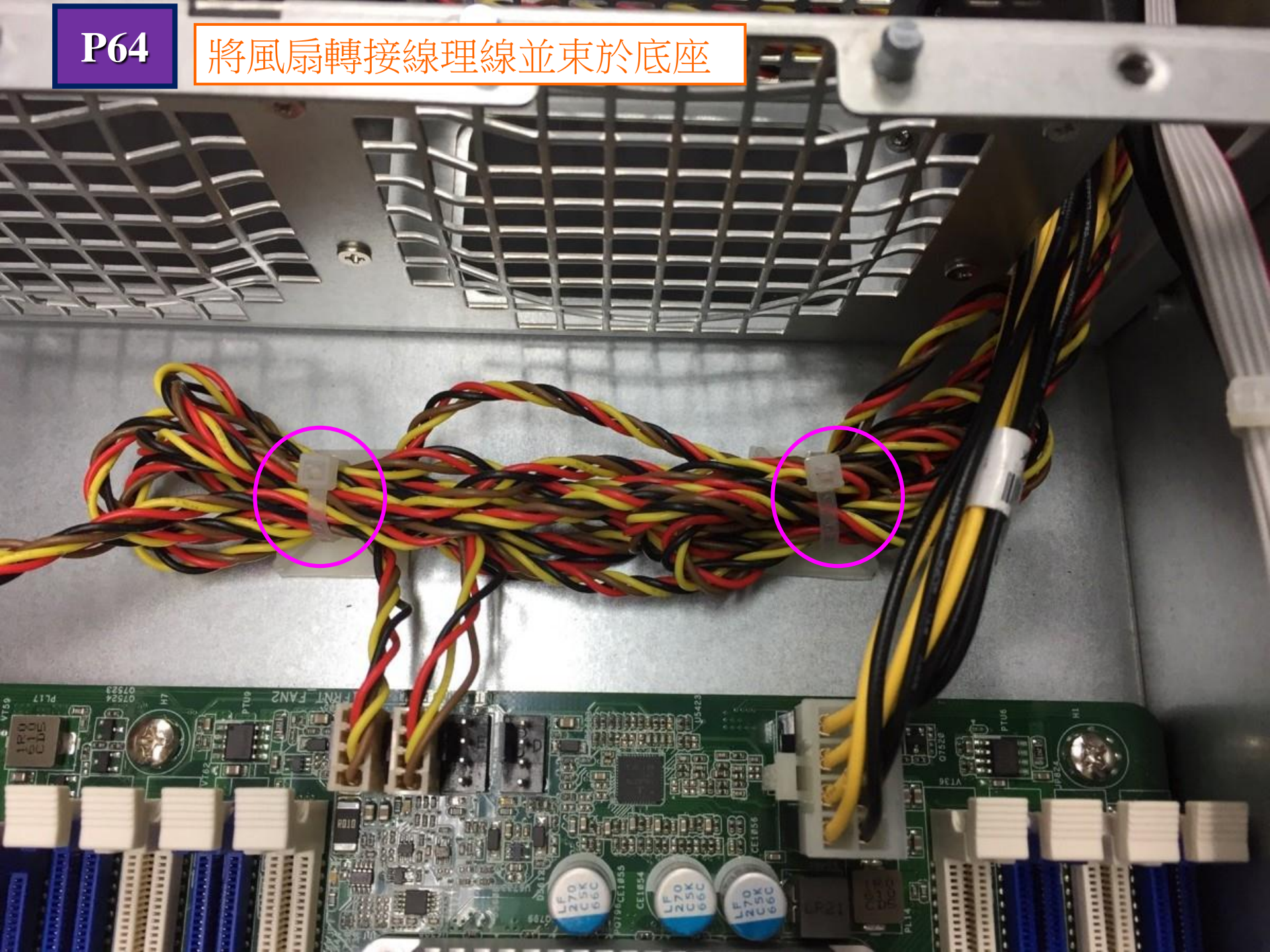
P63

取線材固定座包*2PCS(2RALXX319500)黏於底座並取束線帶包*2PCS(2RALXX319400)穿過束線座



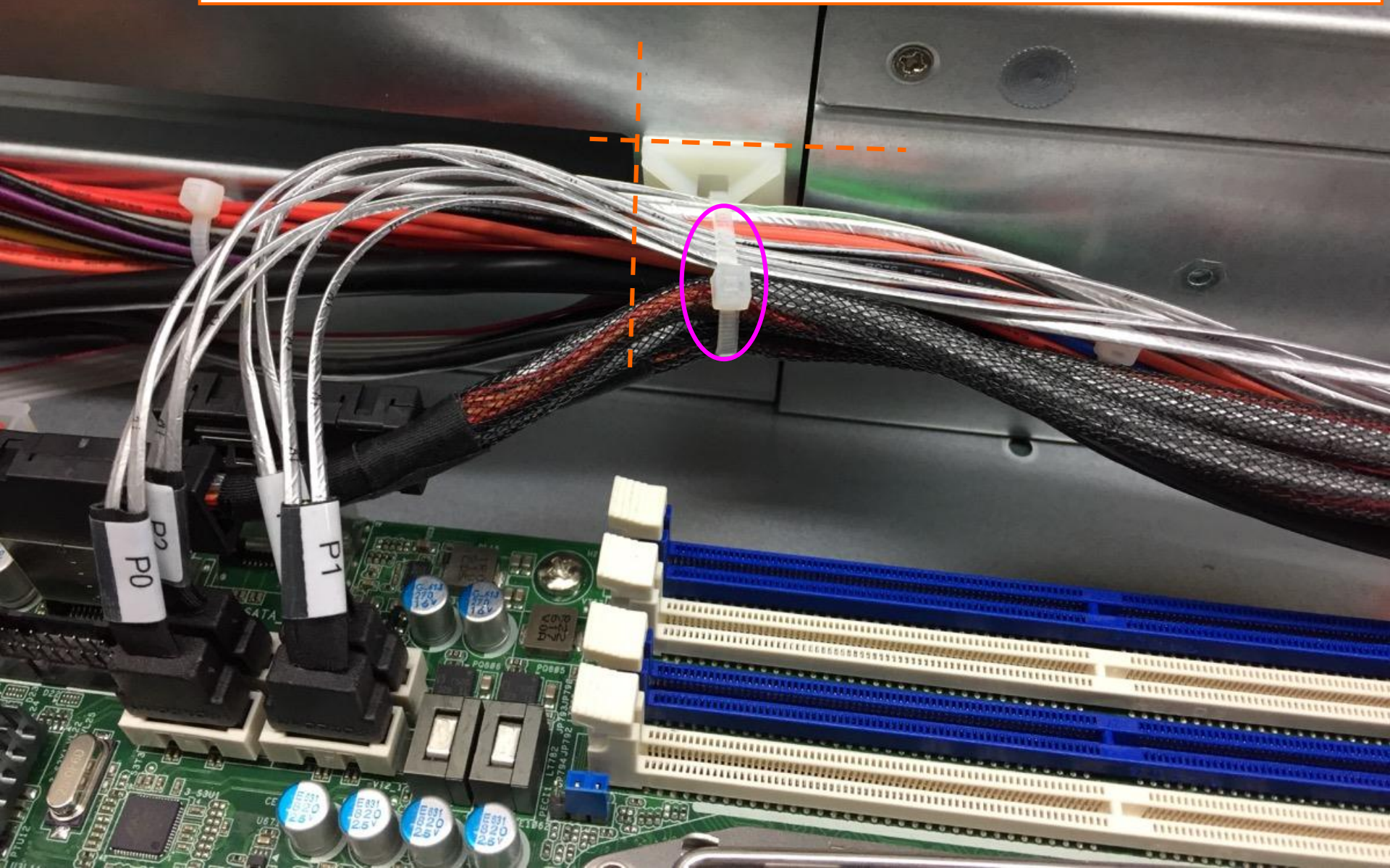
P64

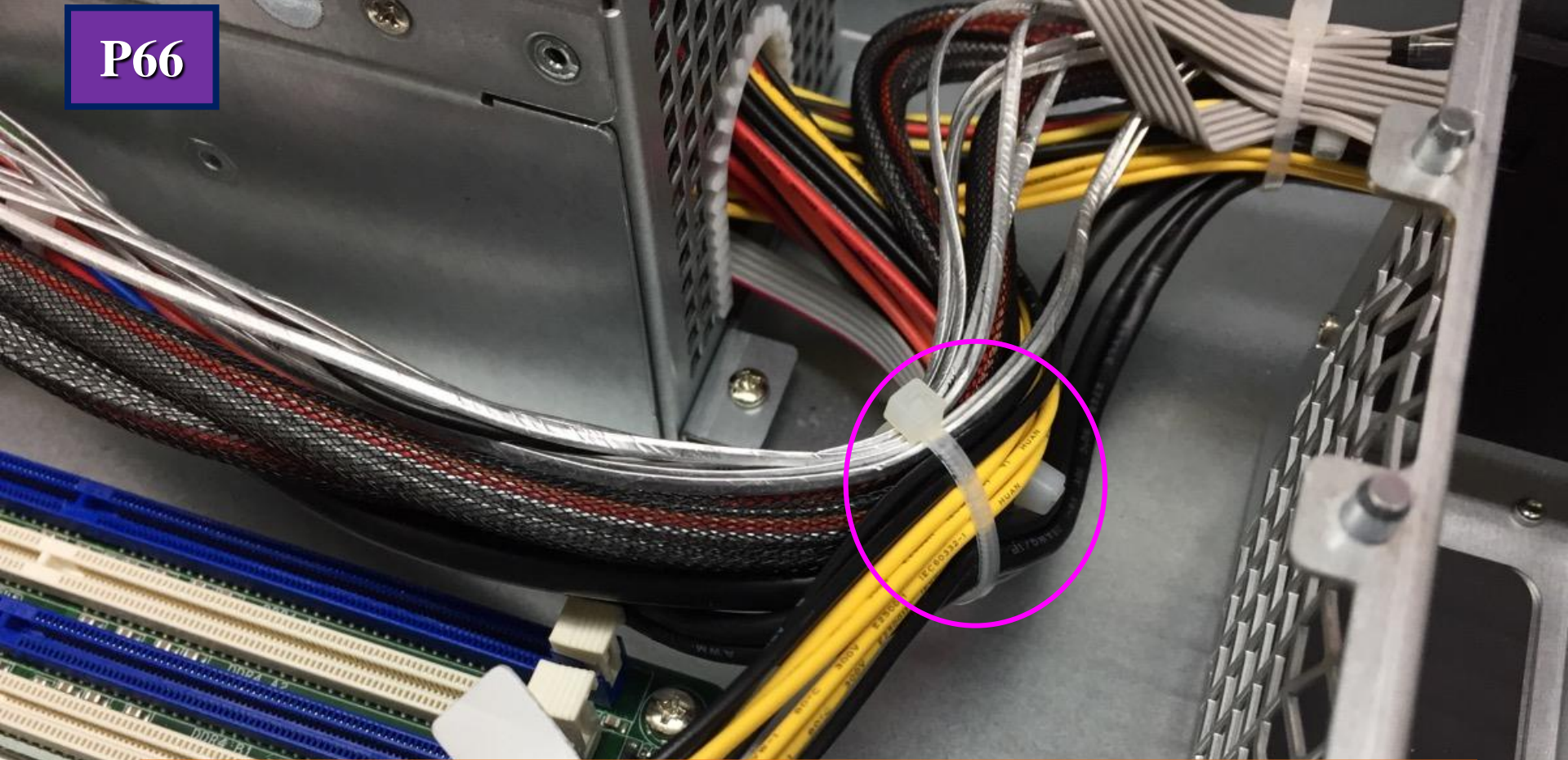
將風扇轉接線理線並束於底座



P65

取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)帶將24P、MINISAS*3、PMBUS、DB15 TO 2*8P、2*5P CABLE理線

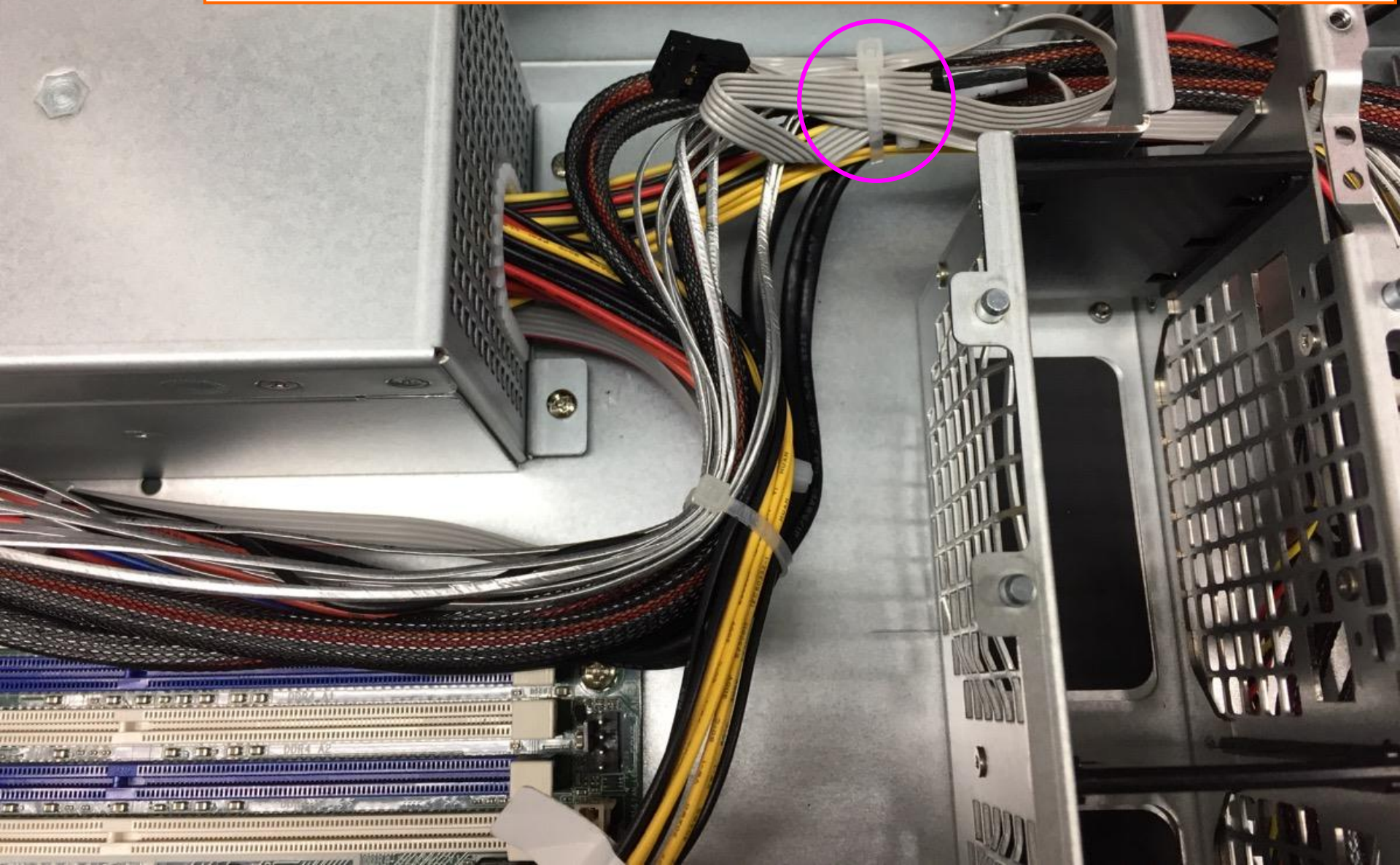




取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)將24P、MINISAS*3、PMBUS、DB15 TO 2*8P、POWER ATX、2*5P CABLE理線

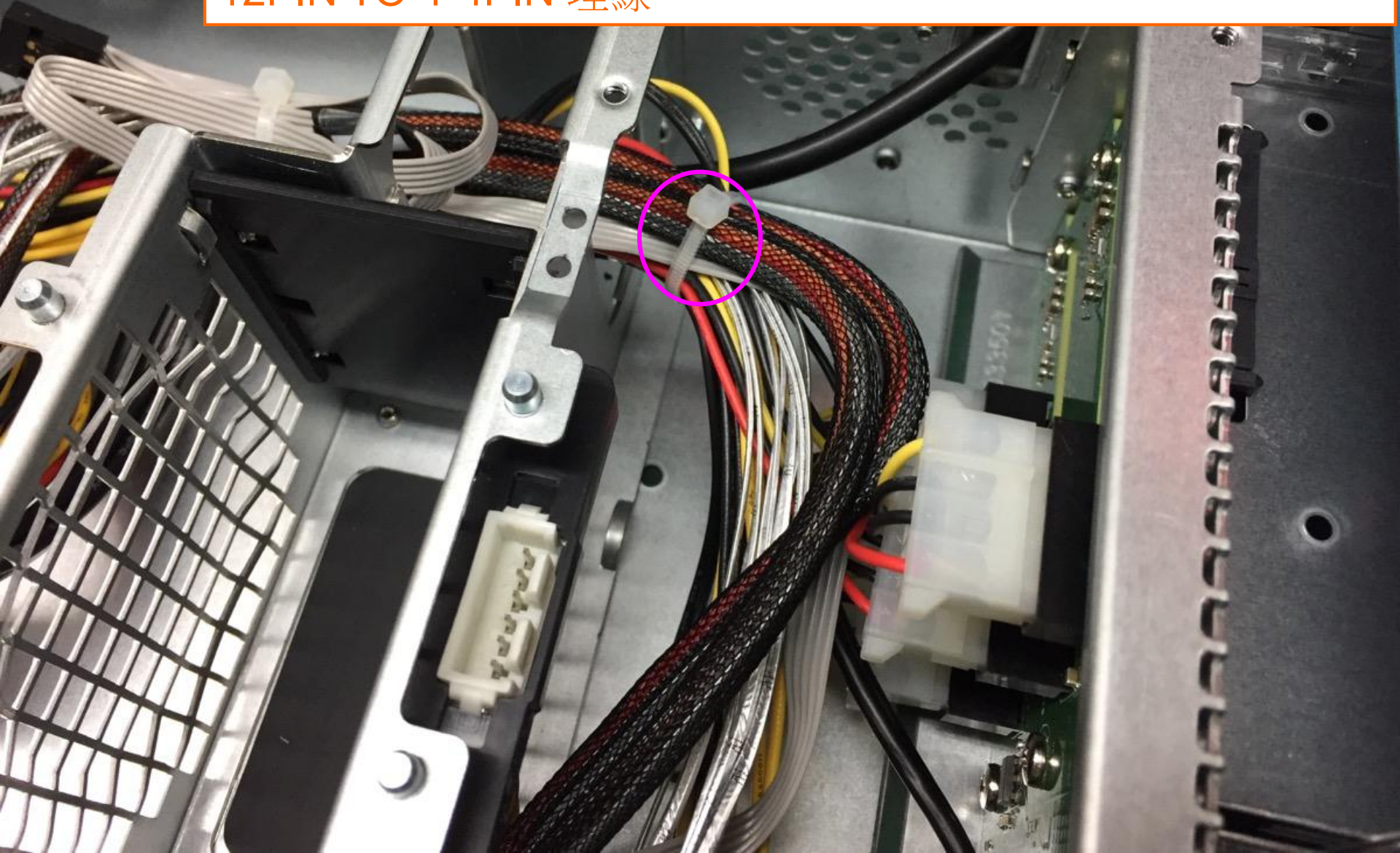
P67

取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)將MINISAS*3、DB15 TO 2*8P、POWER ATX、2*5P CABLE、SGPIO理線



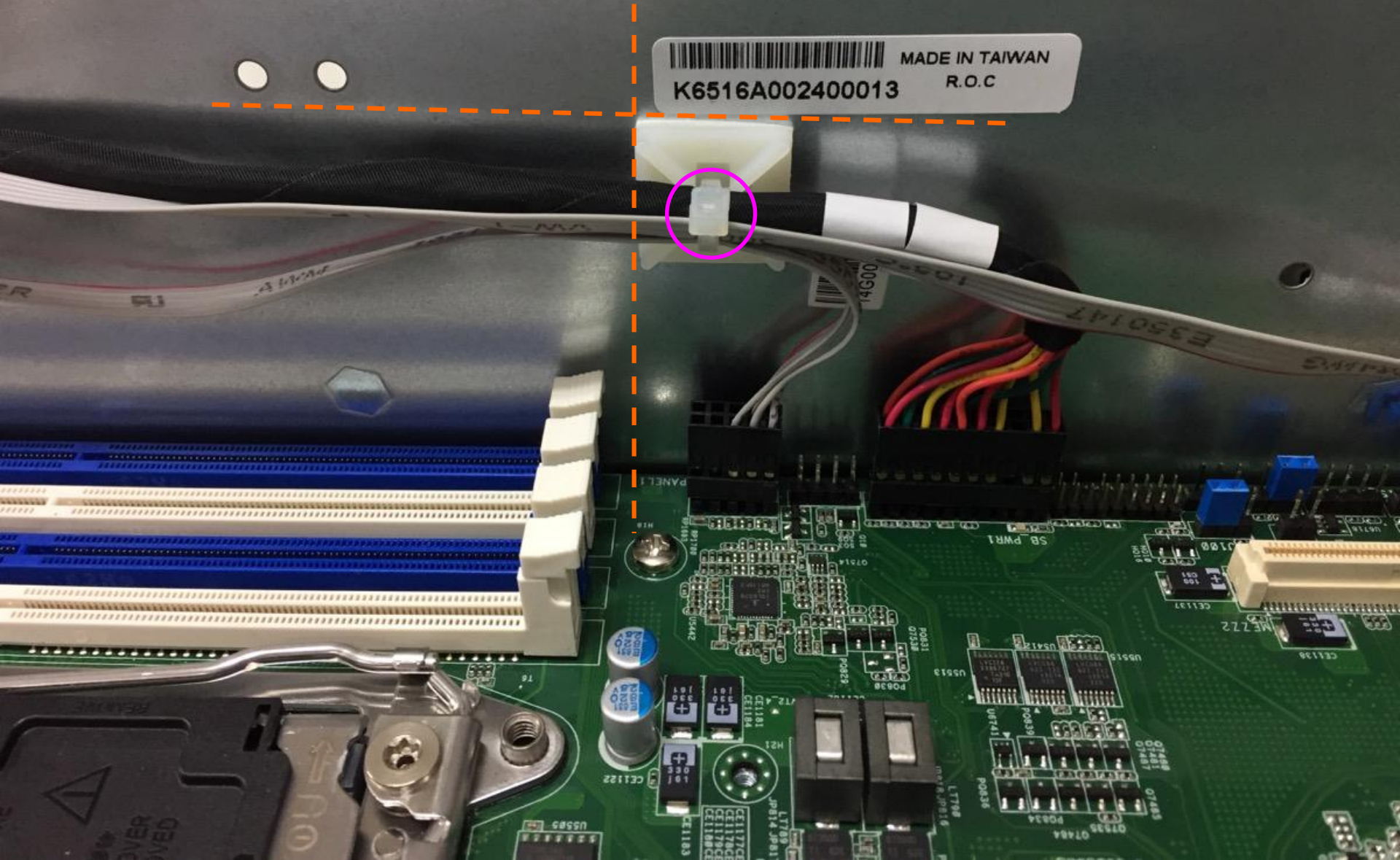
P68

取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)將MINISAS*3、DB15 TO 2*8P、POWER ATX、2*5P CABLE、POWER ATX 3.0 12PIN TO 4*4PIN 理線

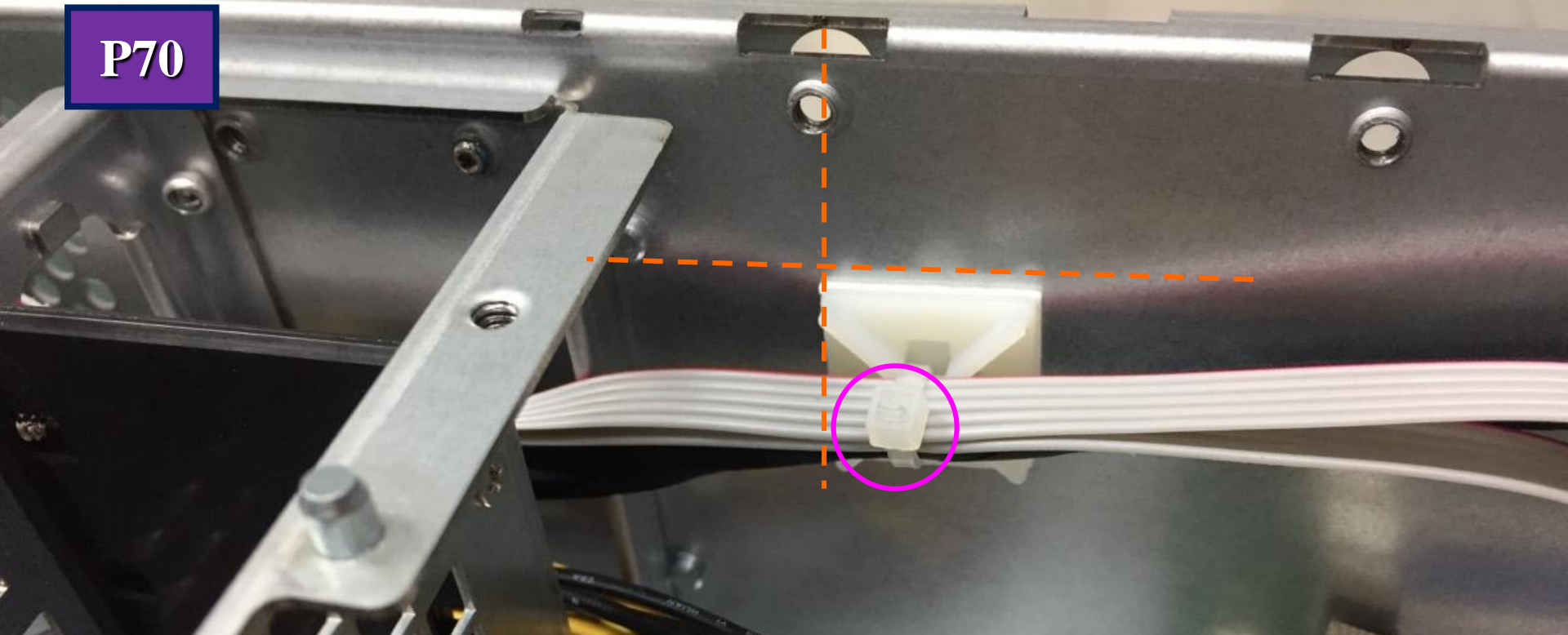


P69


取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)將SMBUS、2*10PTO 2*10P+2*5P CABLE理線



P70

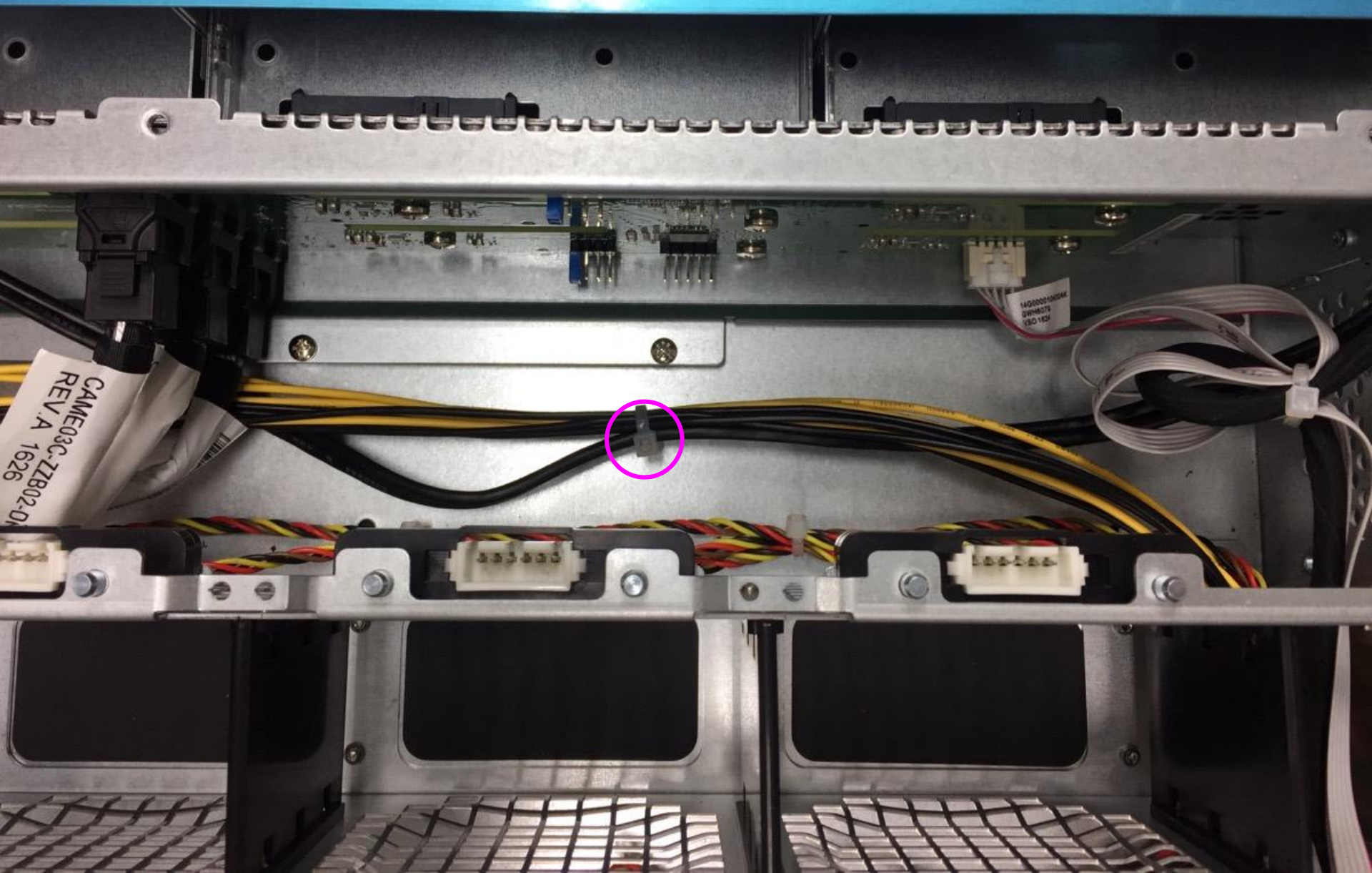


取線材固定座包*1PCS(2RALXX319500)黏於指定位置，並取束線帶包*1PCS(2RALXX319400)將SMBUS、2*10PTO 2*10P+2*5P CABLE理線



P71

取束線帶包*1PCS(2RALXX319400)將POWER ATX
8P(長)、2*5P CABLE理線



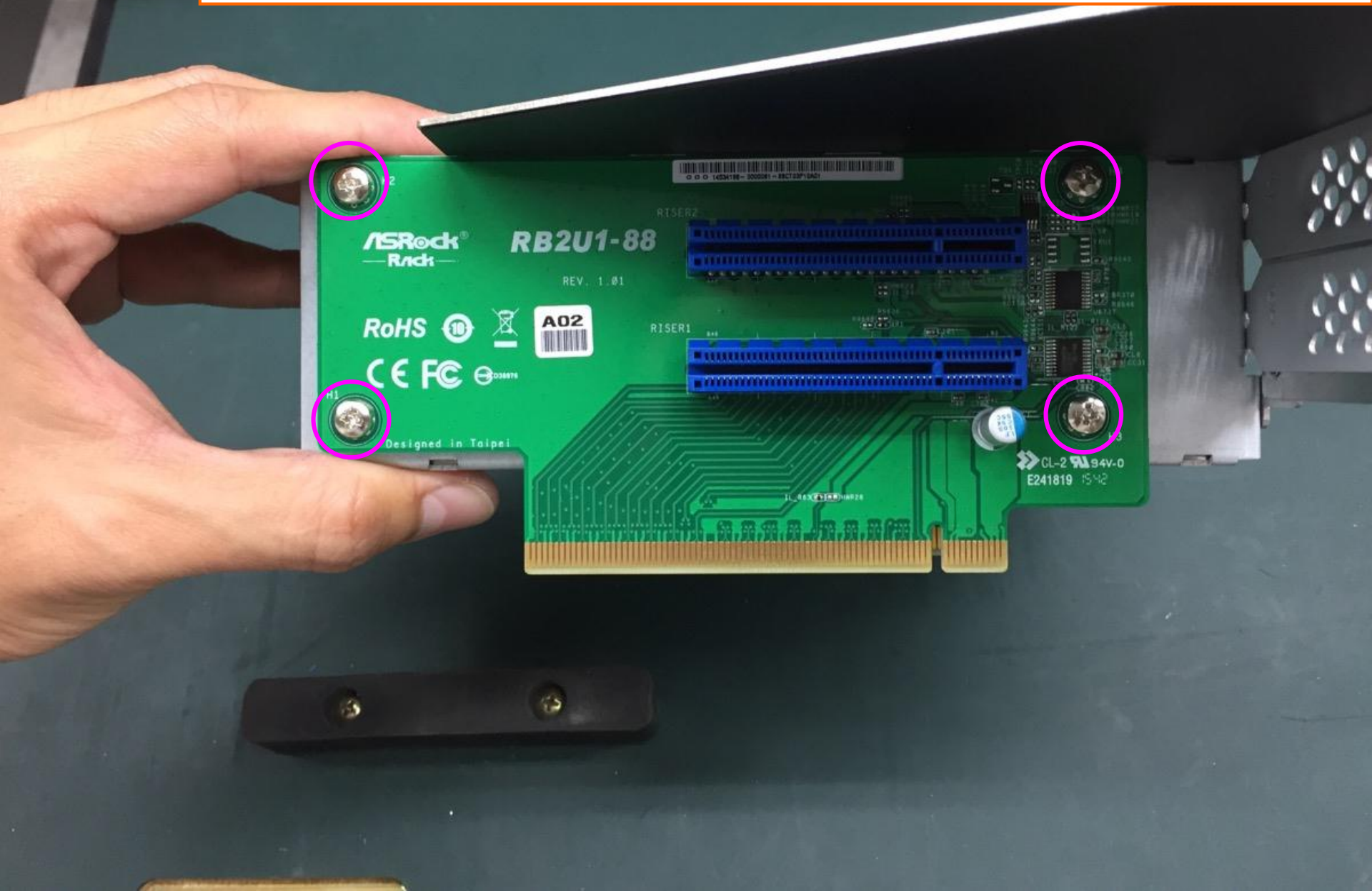
P72

1. 檢視RB2U1-88L/PB(5RAMPDAUF084)有無不良
2. 用螺絲包(2RALXX248201) 皿頭螺絲*4PCS鎖於擴充卡機架



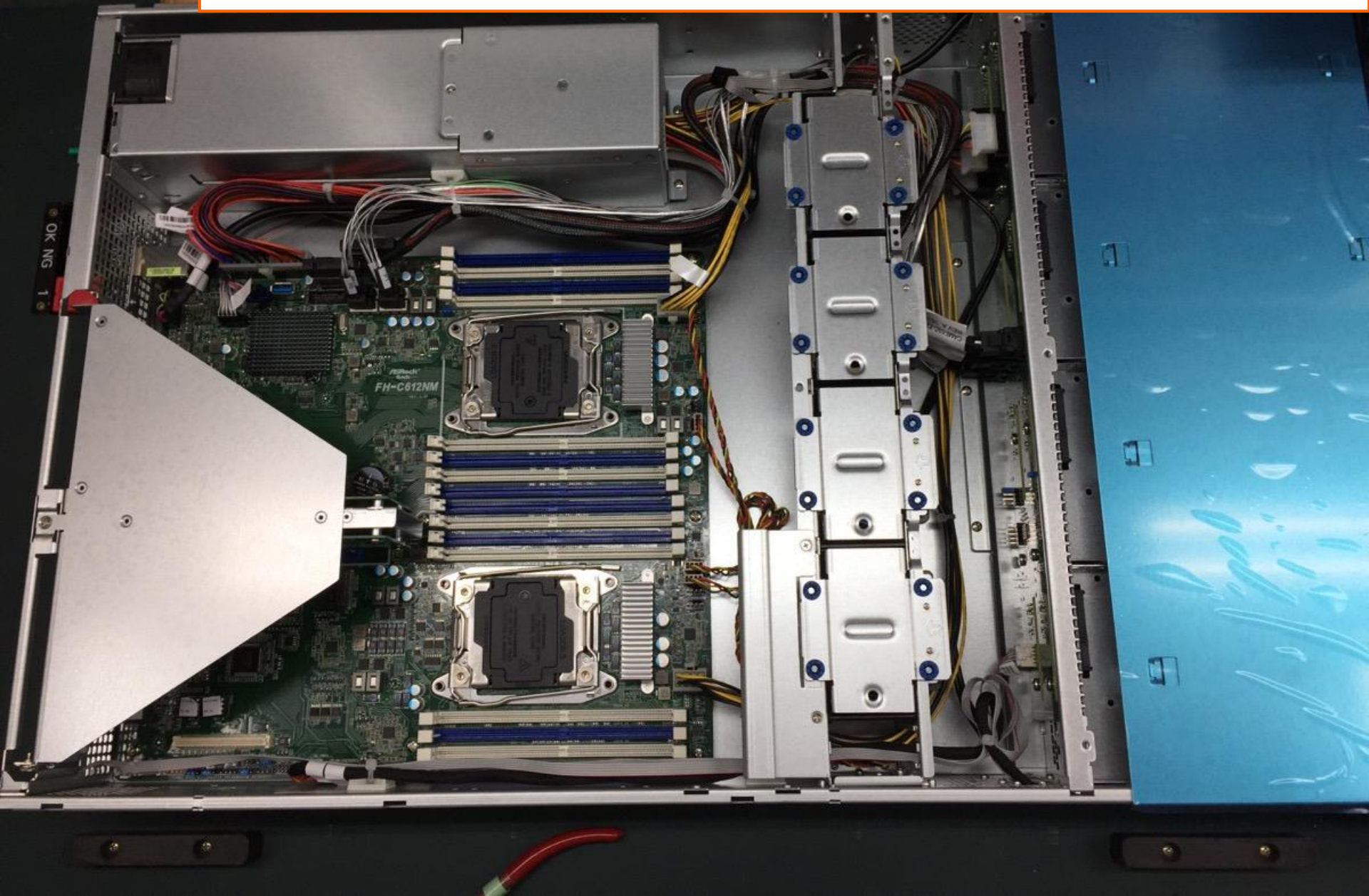
P73

1. 檢視RB2U1-88 (5RAMPDAUF085)有無不良
2. 用螺絲包(2RALXX248201) 皿頭螺絲*4PCS鎖於擴充卡機架

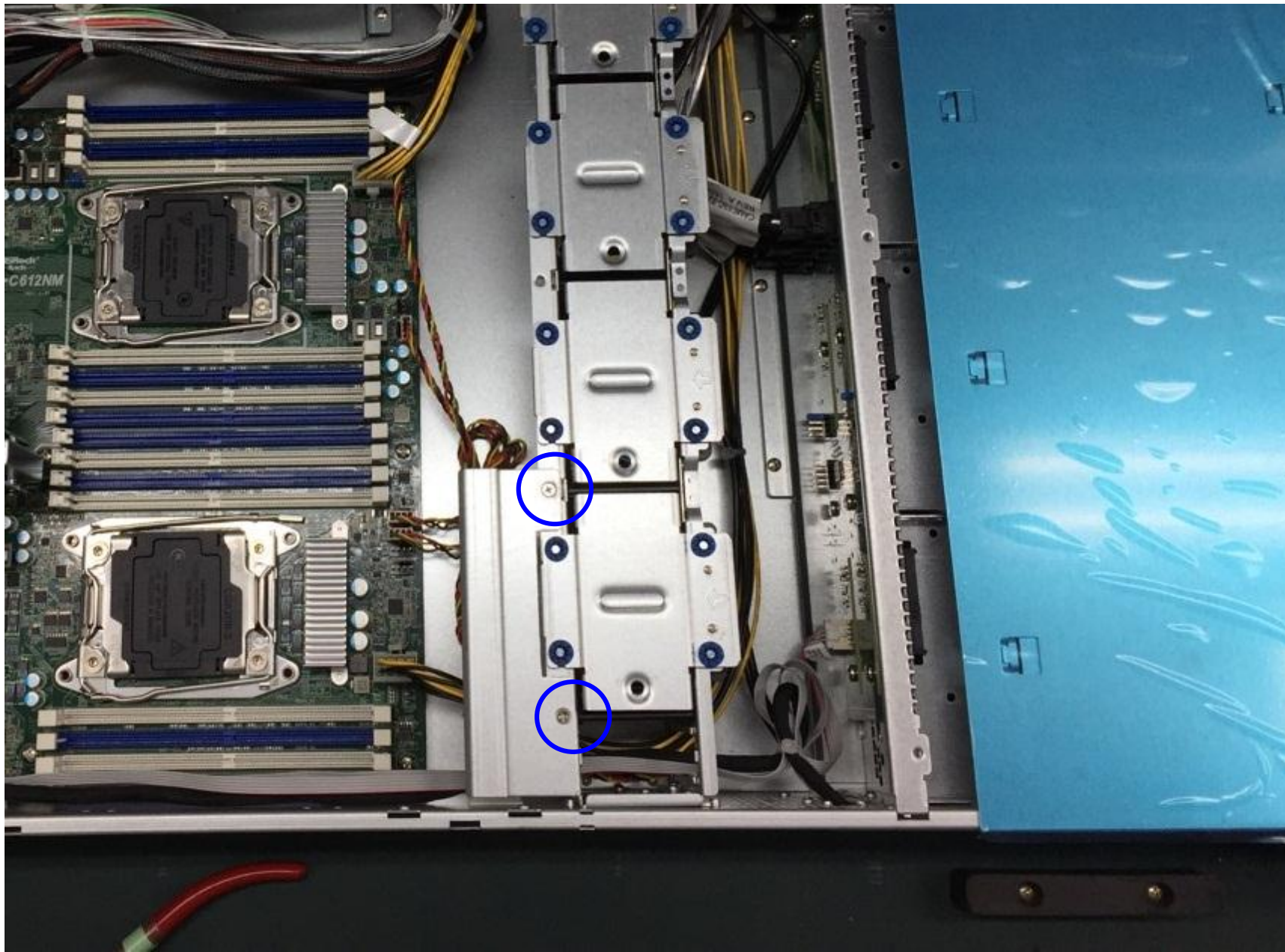


P74

檢查零件是否有漏裝、線材漏插或插錯方向、零件組裝不確實狀況

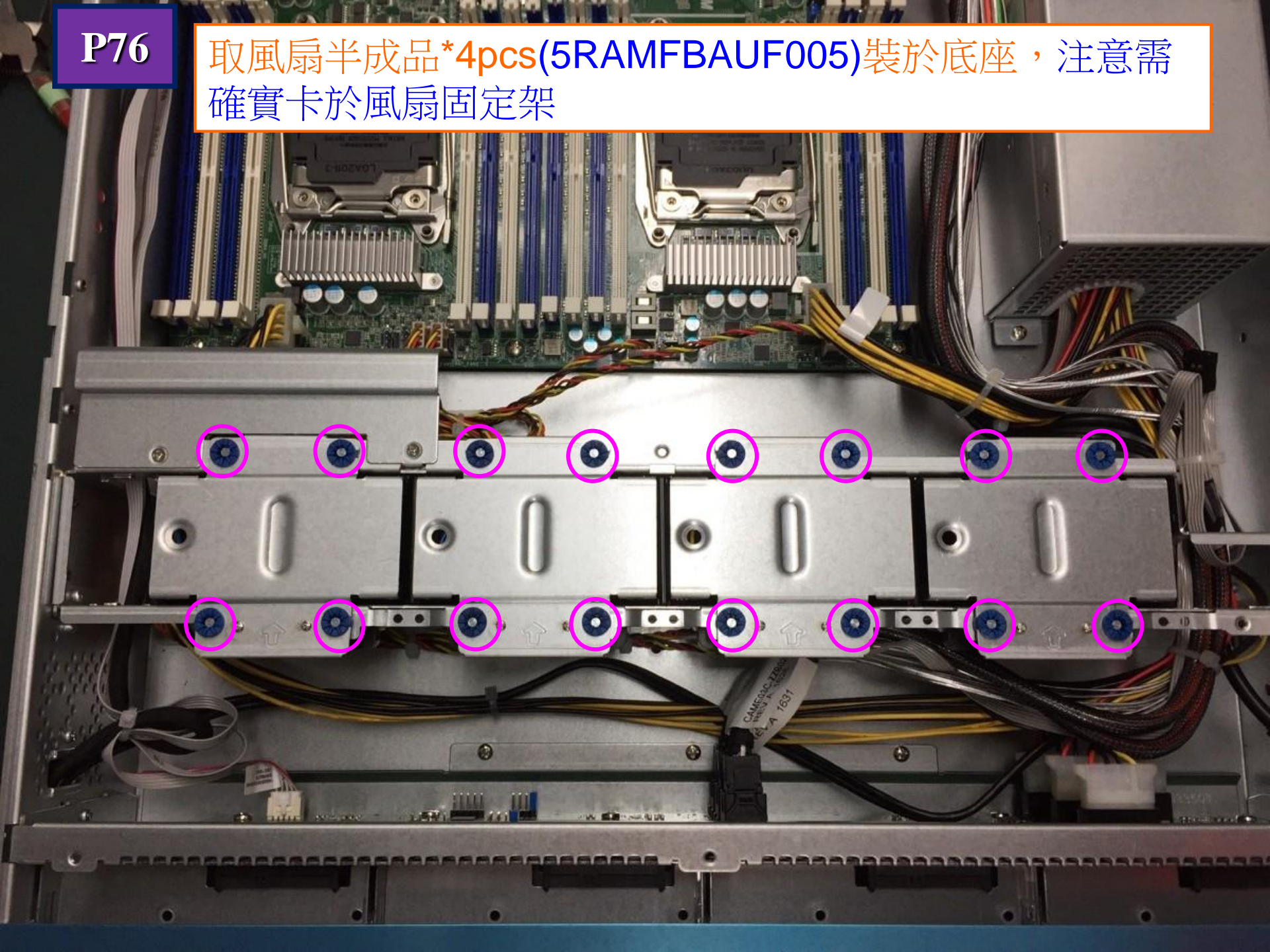


取先前拆下沉頭螺絲*2PCS將EMI檔片鎖於底座



P76

取風扇半成品*4pcs(5RAMFBAUF005)裝於底座，注意需確實卡於風扇固定架

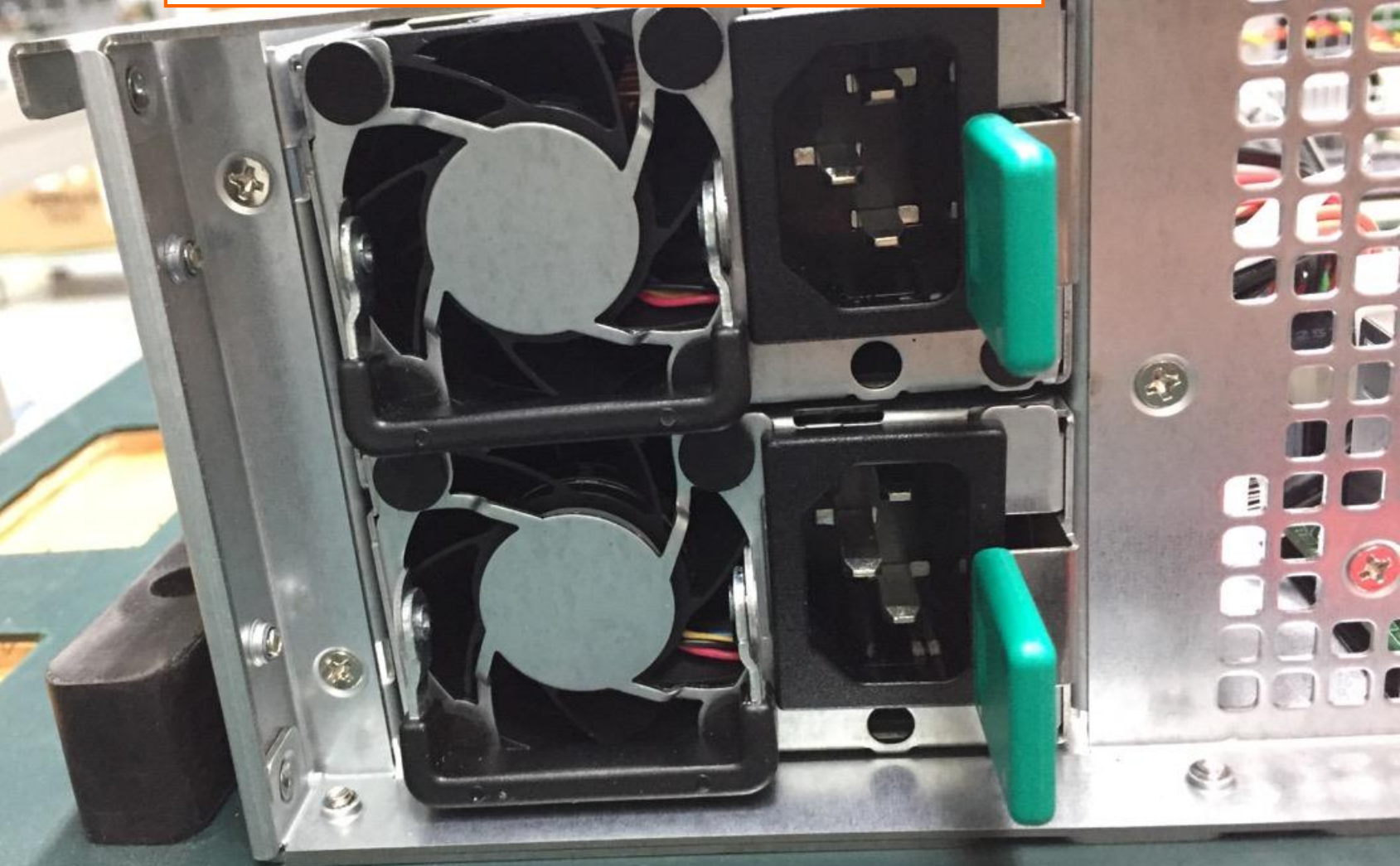


將擴充卡機架裝於底座，鎖入沉頭螺絲
*1PCS，注意金手指需對準插入



P78

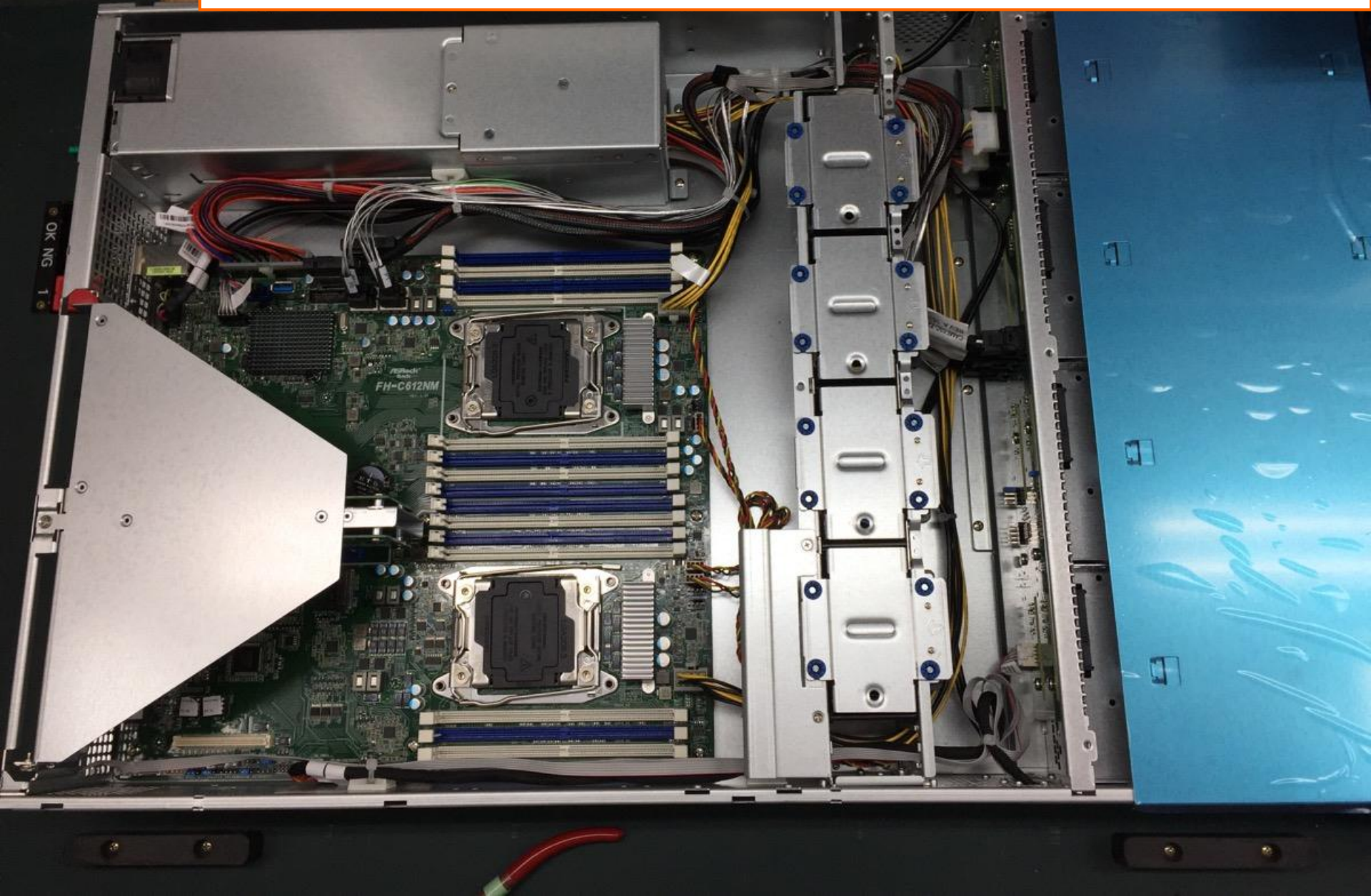
取DPS750AB-18C(COLD RDU) 750W
(5RAMAPAU009)*2PCS裝於底座



OK

P79

檢查零件是否有漏裝、線材漏插或插錯方向、零件組裝不確實狀況



P80

將中&後上蓋鎖入底座，共9顆沉頭螺絲



P81

黏貼2U4FH-12L RATING LABEL BLACK
(5RAMPMAUF070)於指定位置



P82

黏貼PSU WARNING MARKING STICKER
(5RAMPMAUF006)於指定位置



8038風扇半成品組裝

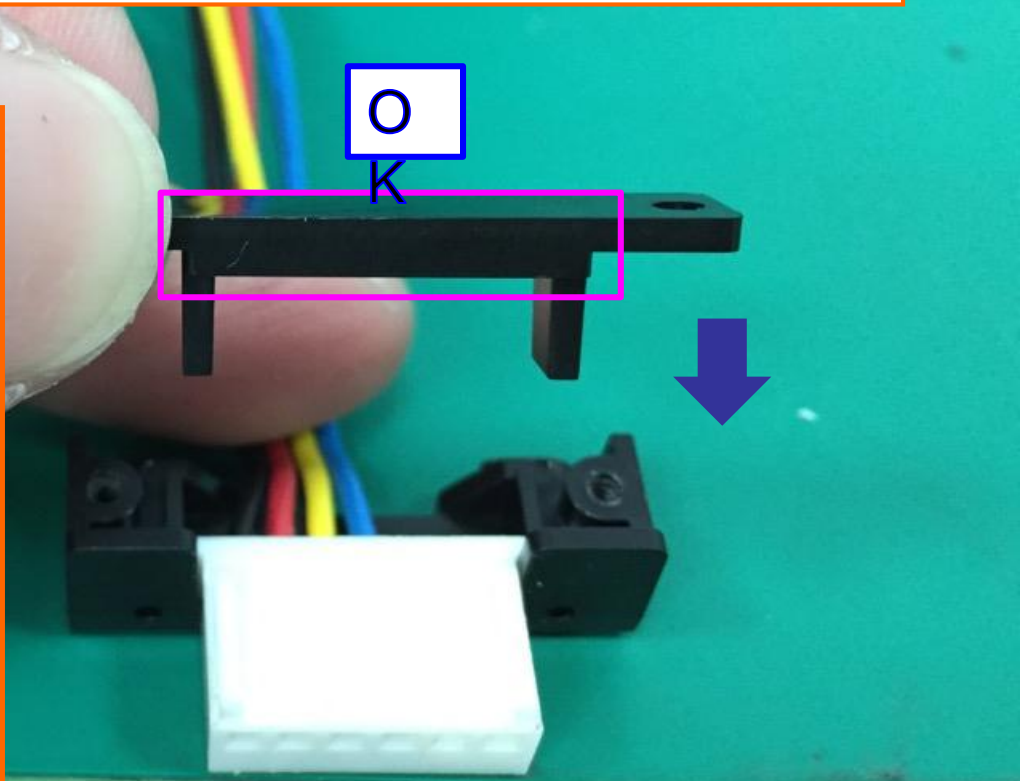
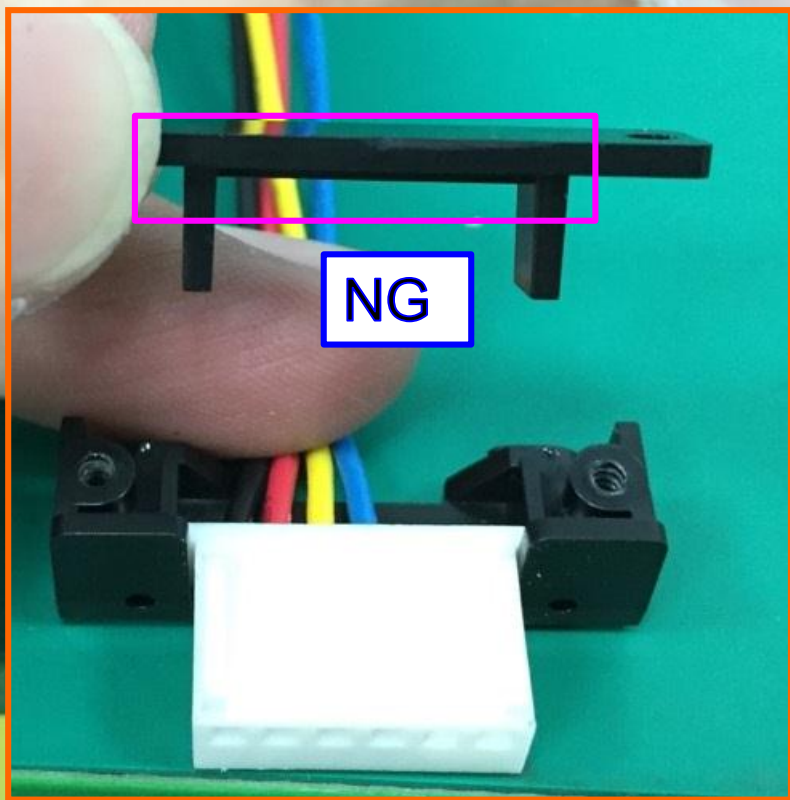
P84

取風扇，將風扇接頭裝入2U 8CM 風扇固定(1)(3RAMPH010800)



P85

將2U 8CM 風扇固定(2) (3RAMPH010900)裝入2U 8CM 風扇固定(1)，(注意方向性)



RDDED
AREA



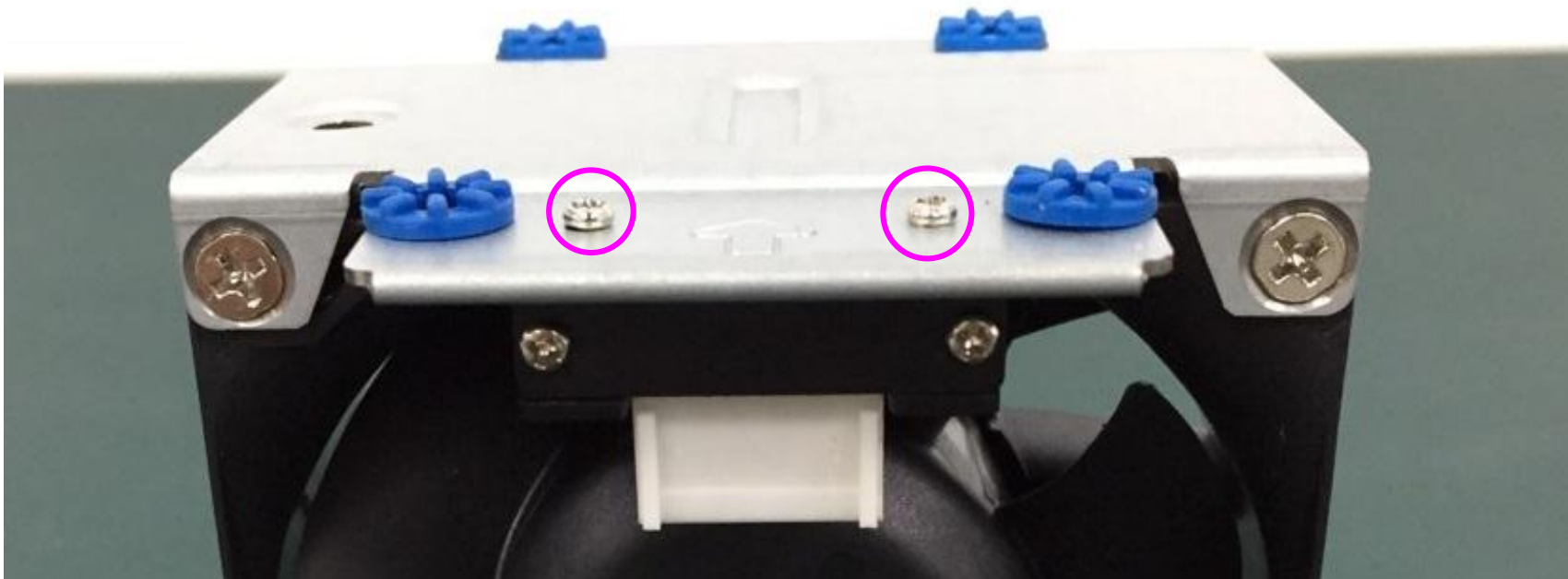
P86

將2U 8CM 風扇固定(2)鎖入2U 8CM 風扇固定(1)，共2顆
SCREW 圓頭 D2 平尾自攻*L6(3RAMRS041000)



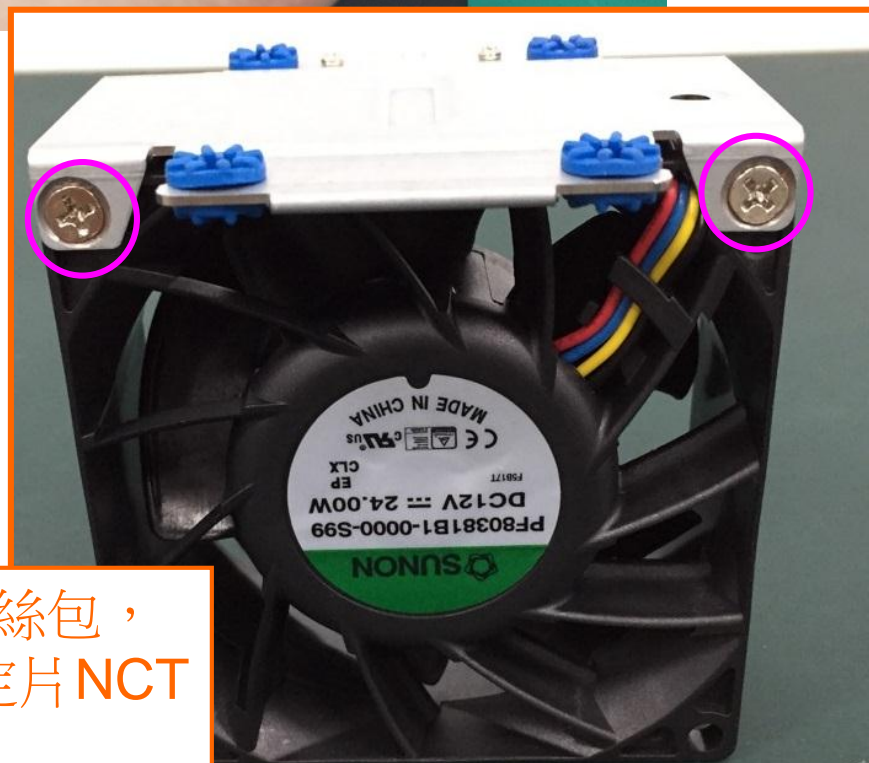
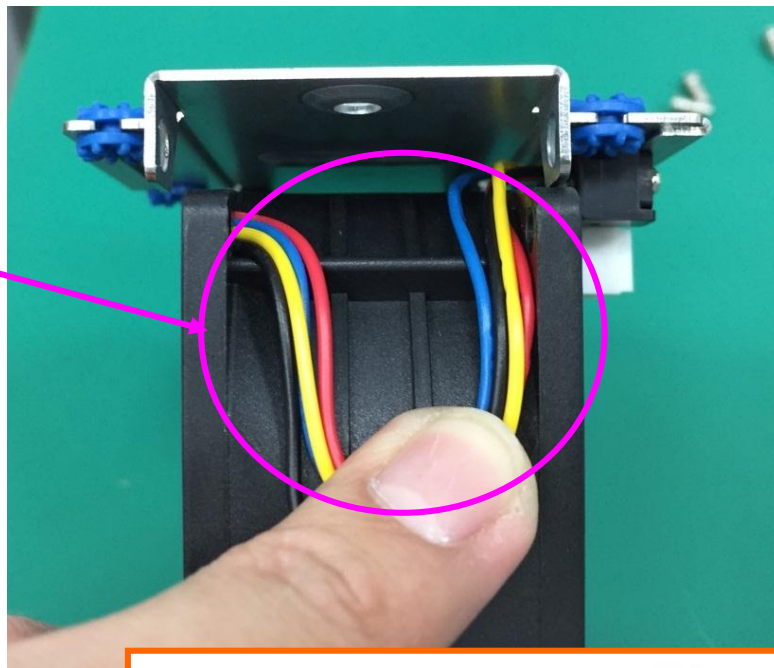
SAFEGUARDED WORK AREA

將2U 8CM 風扇固定(1)鎖入RS218-AFU 風扇固定片
NCT(2RAVIS059900) ， 共2顆SCREW 圓頭 D2 平尾自攻
*L6(3RAMRS041000)(注意方向性)



P88

將風扇裝入RS218-AFU 風扇固定片NCT，(注意線材走線方式)



使用2RALXX149200螺絲包，
將RS218-AFU 風扇固定片NCT
鎖入風扇，共4顆螺絲

P89

將風扇線材整入風扇固定片內

