

PCN – Process Change Notification

Change:	Add air pressure testing station 增加氣密測試工段
Date:	2016/05/19
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Affected Products

Model#	Part Number	Changes
Titan GPS Magnetic Mount Antenna AA-105 5M GT5(F)Grey with special label for ISUZU & double layer silver sticker on magnet	AA.105.501F21.du	Add air pressure testing station 增加氣密測試工段

Type of Change

- Hardware Modification
 Production Process Advance
 Others – Packaging Rules Changing

Description of Change

- a. 增加氣密測試檢驗工段，於製程中用氣密測試機檢查產品確認防水圈於點膠後，無漏氣現象，以符合 IP-X7(IEC-60529) 防水規範要求。

Add air pressure testing station, by through air pressure test, production process can verify the outputs which comply with IP-X7 (IEC-60529) waterproof function of production

- b. 氣密機設備基本參數對照流程圖與資料如下列附件。

Air pressure test equipment basic setting parameters and setting process as the attachment below.



氣密機設備基本參數對照流程圖與資料

Note: 模擬水深 1 米(IEC-60529)測試時=100cmH2O(正氣壓)
=-100cmH2O(負氣壓)

產線測試時機器設定吸氣，故用負氣壓作為判定標準。

Note: Simulation setting based on 1 meter depth of water (IEC-60529) which equal to 100cmH2O (positive air pressure) and also equal to -100cmH2O (negative air pressure)
In production setting, the air pressure test is through negative air pressure to verify waterproof function.

- c. 變更 SOP:

(Amend SOP)

1. 增加線外底蓋鑽孔工段,以確保鑽孔不會破壞殼內任何元件。(SOP 工段 11-12)

Add antenna base drilling process in an off-line processing, to ensure the drilling process won't destroy any component inside the enclosure. (SOP section 11-12)

2. 增加氣密測試檢驗工段(SOP 工段 16-16~2)

Add air pressure test process (SOP section 16-16~2)

3. 增加下蓋圓孔上膠工段(SOP 工段 17)

Add manual dispensation process on the air pressure hole process (SOP section 17)



SOP section 13 to
17 dispensing plus

- d. 氣密檢驗規範、手法與驗證標準;160pcs 驗證氣密特性防水測試結果

Air pressure inspection standard with process and control limits; 160 pcs air pressure / waterproof verification results.



Air Pressure



PCN_Air pressure,

Process Verify.ppt; Electircal, and Wat

Schedule

於 2016/05/12 變更 SOP 增加氣密測試工段及注意事項 SOP Ver.E→ Ver.F

At May 12th 2016, amend SOP with adding air pressure test station and notification.

變更版序 Versions	變更日期 Date of changing	變更內容 Changing content
E	2016.04.15	變更點膠方式及增加注意事項 Modified automatic dispensation process and added notifications
F	2016.05.12	增加氣密測試工段 Add air pressure testing station

Estimated Transition Date

June/2016, After Approval