

TECHNICAL ADVICE NOTE

Nearside Signal PCB Spare

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1. INTRODUCTION



TAN22 provides guidance for returning and replacing AGD detection and nearside demand units. Where nearside signal and demand unit's parts are accessible, the return of the PCB is acceptable.

Unauthorized opening or attempted repair of detection products AGD3xx, 6xx will be considered a non-warranty return. Modified cables will be replaced unless discussed prior to return. If cables are replaced, they will be subject to a repair charge at the going rate.

All returns are subject to be recorded against our return management system and will undergo product evaluation and inspection of fault. An admin fee will be applied for non-warranty returns regardless of repair action.

Where a repair is undertaken the product will be fully tested and calibrated to ensure performance integrity. This may remove any customer settings and return the unit back to factory defaults with the latest firmware.

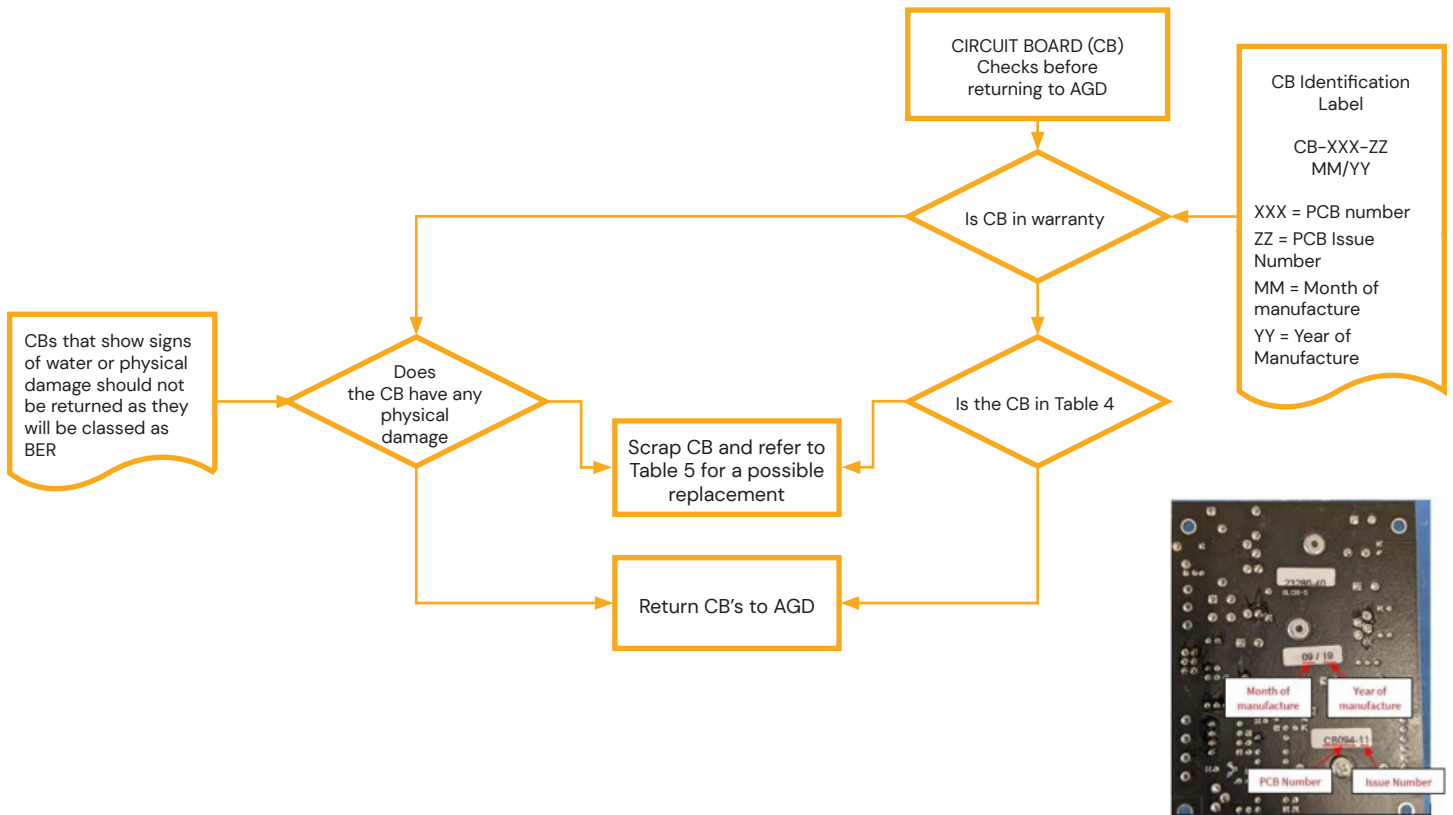
Through continuous development and user specific changes over the years, AGD have had several different issue levels for specific PCB's. These are now tabulated for the most common products in this document.

2. DOCUMENT CHANGE INFORMATION

| ISSUE | AMENDMENT DETAILS | DATE OF ISSUE | BY |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|
| A | First Issue of this document. | | GB |
| B | Update of document. | | MP |
| C | Incorrect part number on Page 4 – changed from CB- 095 to CB-094. Included PCB numbers for AGD925 Mini Puffin Repeater in main chart page 5. | 28/01/2010 | MP |
| D | Remove comment ref mini puffin repeater CB243 & CB244 being DCM compatible and add comment when replacing individual older CB164 & CB165 PCB's the new ones need to be in pairs as not individually backward compatible. | 28/03/2010 | MP |
| 2 | Update to latest format and issue – no changes to technical content. | 18/10/2010 | MP |
| 3 | DCR4701: Update to cover latest PCB additions and add detection platform compatibility | 04/02/2015 | GB |
| 4 | DCR4975: Update to list of boards (page 5) as some boards are no longer serviceable. | 27/11/2015 | CS |
| 5 | DCR6001. PCB Compatibility Charts updated on page 5 & 6. Page 7 added. | 24/05/2019 | CB |
| 6 | DCR6319. PCB Compatibility Chart updated. PCB repair chart added. | 14/07/2020 | CB |
| 7 | CB-094 and CB-095 are now not available | 29/01/2021 | MS |
| 8 | Updated PCB return advice and availability. Updated Repairable PCBs (Table 4), page 5. Inclusion of CB identification label example, page 5. Updated current generation to the AGD200 livewire as the 332. Added 330 and 335 to previous generation column on table, page 7. | 22/02/2022 | RM |
| 9 | SMT Aspect pcb's CB-390, CB-398, CB-400, CB-402 Introduced in Table 5 Page 6 | 19/09/2023 | MS |
| 10 | Add AGD650 | 25/01/2024 | RM |
| 11 | Add alternative to AGD316 as AGD650 and Pegasus CB-229, CB-230 to CB-429, CB-430. | 7/05/2025 | MS |

3. RETURNING A SIGNAL/DEMAND PCB

Please use the following flow diagram before returning non warranty PCB to AGD. Units returned that are not able to be repaired due to economic viability or component obsolescence will be subject to a return process charge.



4. NON-WARRANTY REPAIRABLE PCBS (TABLE 4)

| ISSUE | AMENDMENT DETAILS | DATE OF ISSUE |
|---------|-------------------|---------------------------|
| Current | Serviceable | Description |
| CB-094 | Yes | AGD92x series 48V PSU PCB |
| CB-277 | Yes | 5LED Wait Indicator 48V |
| CB-318 | Yes | 5LED WAIT Indicator 48V |

Please note that if a PCB is not listed above then it should be considered as discontinued and therefore not repairable

5. PCB COMPATIBILITY (TABLE 5)

| NEARSHORE SIGNAL PCBs | | |
|-----------------------|--------------------------------|---------------------|
| PREVIOUS GENERATIONS | DESCRIPTION | CURRENT GENERATIONS |
| CB-094 | AGD92x series 48V PSU | None |
| CB-095 | AGD92x series Wait Indicator | None |
| CB-164 | Red puffin mini repeater 48V | None |
| CB-165 | Green puffin mini repeater 48V | None |
| CB-176 | WAIT indicator | CB-277 |
| CB-181 | Halo Wait indicator 48V | CB-281 |
| CB-190 | Red Puffin Aspect 48V | CB-390 |
| CB-191 | Green Puffin Aspect 48V | CB-398 |
| CB-193 | Red Toucan Aspect 48V | CB-400 |
| CB-194 | Green Toucan Aspect 48V | CB-402 |
| CB-207 | RED Puffin Aspect 48V | CB-390 |
| CB-208 | Green Puffin Aspect 48V | CB-398 |
| CB-209 | Red Toucan Aspect 48V | CB-400 |
| CB-210 | Green Toucan Aspect 48V | CB-402 |
| CB-229 | Red Pegasus Aspect 48V | CB-429 |
| CB-230 | Green Pegasus Aspect 48V | CB-430 |
| CB-235 | Red Puffin Aspect 48V | CB-390 |
| CB-236 | Green Puffin Aspect 48V | CB-398 |
| CB-237 | Red Toucan Aspect 48V | CB-400 |
| CB-238 | Green Toucan Aspect 48V | CB-402 |
| CB-243 | Red puffin mini repeater 48V | None |
| CB-244 | Green puffin mini repeater 48V | None |
| CB-245 | Halo Wait indicator 48V | CB-281 |
| N/A | WAIT indicator 12V | CB-247 |
| N/A | 5LED WAIT Indicator 48V | SA-146 |
| N/A | Red Puffin Aspect 12V | CB-278 |
| N/A | Green Puffin Aspect 48V | CB-279 |
| N/A | Temp Red Far Side Aspect | CB-297 |
| N/A | Temp Green Far Side Aspect | CB-298 |

6. 94X INTEGRATED PSU AND LED ARRAY

Only PCB's that are fed directly from the termination block to the PCB aspect are supported.

If both aspects are connected by a white jumper cable, you will need to replace both PCB's and Cable Looms. Alternatively, please return to AGD for evaluation and repair.

7. LEGACY DETECTION PRODUCTS & CURRENT ALTERNATIVES

Where an item is marked as 'serviceable' this indicates an assessment protocol exists to ascertain its repairability. During this process the item may still fail a test and become Beyond Economic Repair (BER).

If assessed as repairable the item will be repaired and tested before return. The repaired item is subject to a one-year return to base warranty period.

| DETECTION SERVICEABILITY AND ALTERNATIVES | | | |
|-------------------------------------------|------------------------------------------|---------------|--------------------|
| PREVIOUS GENERATIONS | DESCRIPTION | SERVICEABLE | CURRENT GENERATION |
| AGD200 | X-band MVD | No | 306 |
| AGD200 livewire | MVD for VMS applications | No | 332* see note |
| AGD201 | Temp Radar | No | 302 |
| AGD206 | X-band MVD | Yes (limited) | 306 |
| AGD220 | On crossing | No | 326 |
| AGD226 | X-band on-crossing | Yes (limited) | 326 |
| AGD300 | K-Band MVD | No | 318 |
| AGD305 | K-Band MVD narrow beam | No | 318 |
| AGD316 | Stop line detection | Yes | 650 |
| AGD318-501-002 | Dual output radar with mating lead | Yes | 318-511-022 |
| AGD318-502-002 | Dual output radar with flying lead | Yes | 318-512-022 |
| AGD318-503-001 | Single output radar with mating lead | Yes | 318-513-021 |
| AGD318-504-001 | Single output radar with flying lead | Yes | 318-514-021 |
| AGD330 | In sign radar | Yes | 331 |
| AGD335 | On sign radar | Yes (limited) | 332* see note |
| AGD400 | Stop Line detector | No | 650 |
| AGD402 | Dual Zone detector | No | N/A |
| AGD410 | K-Band Scoot detector | No | N/A |
| AGD420 | Kerbside detector | No | 641 |
| AGD910 | ILD diagnostics unit | No | N/A |
| AGD605 | Stop Line detector | No | 650 |
| AGD620 | Kerbside detector | No | 641 |
| AGD625 | Kerbside detector | No | 641 |
| AGD640 | Stereo vision kerbside | Yes (limited) | 641 |
| AGD920 | Red/Green nearside signal (Puffin) | See 92X PCBs | 940 |
| AGD921 | Demand unit | See 92X PCBs | 941 |
| AGD922 | Red/Green nearside signal (Toucan) | See 92X PCBs | 942 |
| AGD923 | Red/Green nearside signal (Pegasus) | See 92X PCBs | 949 |
| | Pelican WAIT demand unit | See 92X PCBs | AGD924 |
| AGD925 | Red/Green nearside signal small repeater | See 92X PCBs | N/A |
| AGD926 | Combined Red/Green & Demand Puffin unit | See 92X PCBs | 946 |
| AGD927 | Combined Red/Green & Demand Toucan unit | See 92X PCBs | 947 |

* Possible alternatives depending on application. Please inquire for more information.

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