

CY490/15 - GPS – Fitting / Installation Instructions

This document outlines the procedure to perform a field upgrade on a CY490 SPG by the addition or replacement of the CY409 GPS option module assembly.

1. Remove power and cables from the CY490 unit, extract from the bay, and remove the top cover. Retain screws. *If replacing the option in the field, remove the existing option and skip to step 3.*
2. Remove the existing Comms cable from P840; retain the UNC screws from the D9 connector.
3. Fit the middle connector on the 20W/10W cable assembly to the CY409 option module : (D9 = Strain Relief (SR), middle 20W = SR [over 20W cable], end 20W = no SR).
4. +12V needs to be present at P840 (10) in order for the GPS option to function. Ensure that the +12V power link has been made on the CY400 Iss 9E module (C1 end of L1 (+12V) to P840(10)) - only required up to & incl. issue E; tracked from issue F and onwards).
5. Fit the chassis mount BNC bulkhead adapter in the relevant chassis hole – securing nut on the outside.
6. Fit the internal aerial cable – STT end to BNC bulkhead adapter.
7. Fit the GPS option module assembly to the inside of the rear panel (CY409 down/Jupiter RXR module up) – may need CZ washers under the heads of the rear panel CSK screws.
8. Secure D9 to RP. Ensure that the cable does not interfere with the Jupiter RXR module aerial connector.
9. Fit the 20W cable into P840 on the CY400 module. Ensure that the cable does not interfere with the Jupiter RXR module aerial connector.
10. Fit the aerial cable (R/A end) to the Jupiter RXR module aerial connector – route cable so as to avoid “kinking”.
11. Confirm GPS system operation using Courtyard’s PC based MiniMessage program.
12. Refit the top cover, using ALL of the screws previously retained - failure to replace all of the screws invalidates current European CE regulations.

Note: One or more top cover screws are 4mm length – these are to be installed “above” the BNCs of any installed option modules to prevent BNC interference.
