



CODAN

DGAC HF Voice/RTTY system—9114 Power Supply fails to initialise after a power failure

Introduction

The DGAC HF Voice system in Antarctica, documented in system drawing 03–00987 Issue B, includes an AC mains contactor in the AC power supply lead of the PS1000 power supply. The AC mains contactor is connected to the Input/Output (I/O) port of the 8571 Remote Control Interface via cable 08–05473–001. This enables the AC mains contactor to be switched remotely via a relay from the Codan 8570/8571 Remote Control System. This facility permits the linear amplifier to be disabled remotely.

A problem occurs after an AC mains power failure. The Codan 9114 Power Supply fails to initialise due to the low impedance of the AC mains contactor on the 12 V DC power supply line. The problem is overcome by providing switched 12 V DC power from the General Purpose (GP) port of the transceiver instead of the I/O port of the 8571 Remote Control Interface.


Symptom

The Codan 9114 Power Supply fails to initialise after an AC mains power failure.

Action

To ensure that the 9114 Power Supply initialises after an AC mains power failure:

- Re-route the power supply line by connecting the cable provided (part number 08–05637–001) to the GP port of the transceiver (see Figure 1).

 Once the power supply has been re-routed, the AC mains contactor can only be remotely switched when the transceiver is switched on.

Implementation

To re-route the power supply line from the GP port of the transceiver, a special purpose cable (part number 08-05637-001) must be connected (see Figure 1). The implementation is also shown in system drawing 03-00987 Issue C.

Six cables have been sent with this Service Bulletin. Three cables, (part number 08-05637-001) are provided for the new connection, and three cables, (part number 08-05473-001) are provided to replace the cables previously modified by the customer.

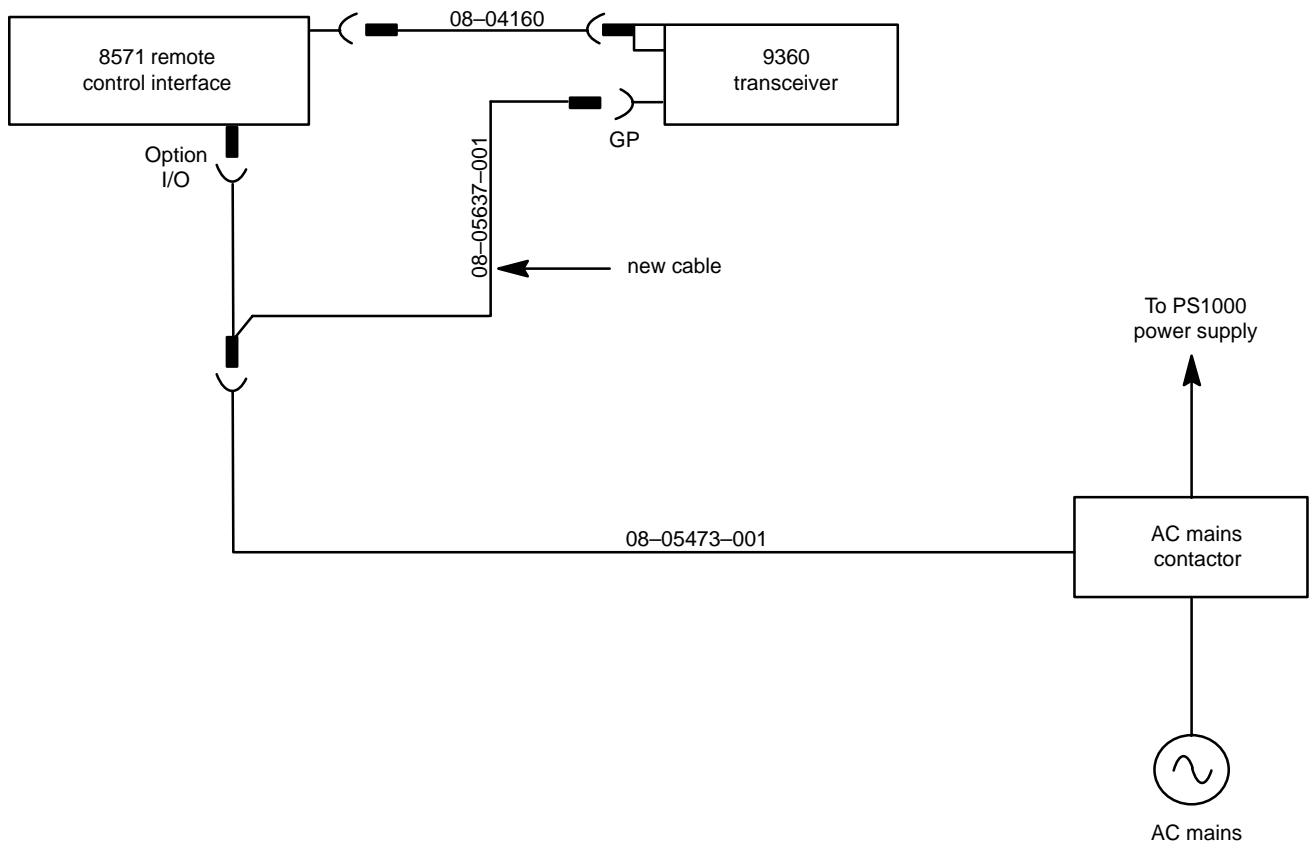


Figure 1: Wiring diagram for the AC contactor