

Nomad

SERVICE BULLETIN

REVISED ELECTRICAL LOOM CONNECTORS FITTED TO OPTIONS G48 AND G48-24 (AUTOPILOT) (MODIFICATION N291)

1. PLANNING INFORMATION

A. Effectivity

(1) Aircraft Affected

(a) Nomad N22 Series Aircraft

All N22 Series aircraft fitted with Customer Option G48 (autopilot).

(b) Nomad N24 Series Aircraft

All N24 Series aircraft fitted with Customer Option G48-24 (autopilot).

Pre certification implementation of the intent of this service bulletin is recorded in the airframe log book as Mod N291.

(2) Spares Affected

None.

B. Reason

Modified electrical connectors are required:

(1) to accommodate autopilot computer Type 913K-1A (as well as the earlier Type 913K-1 variant); and

(2) as a prerequisite to embodiment of Service Bulletin NMD-22-3 (Mod N309).

C. Description

The two identical keying shells fitted to autopilot loom connectors CMPTR-1 and CMPTR-2 are replaced by two dissimilar keying shells.

D. Compliance

(1) If Options G48 or G48-24 (autopilot) and G69 (Sunair HF/AM/SSB Transceiver) are both fitted, the requirements of this service bulletin must be carried out before, or in conjunction with, the embodiment of Service Bulletin NMD-22-3 (Mod N309).

(2) If Option G48 or G48-24 is fitted but Option G69 is not fitted, the embodiment of this service bulletin is optional and need only be carried out at the convenience of the Operator, if it is required to fit an autopilot computer Type 913K-1A.

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NOTE

Following incorporation of this service bulletin or embodiment of Mod N291, autopilot computers Type 913K-1 and 913K-1A are interchangeable.

E. **Approval**

The modification detailed herein has been approved pursuant to Air Navigation Regulation 40 and conforms with the type certification requirements.

F. **Manpower**

One man two hours.

G. **Material Price and Availability**

Parts are to be supplied from operator's stocks or procured from local general aviation suppliers.

H. **Tooling Price and Availability**

None required.

I. **Weight and Balance**

No change.

J. **References**

Nil.

K. **Publications Affected**

The Option G48 or G48-24 Supplements of the following publications:

- (1) Maintenance Manual
- (2) Illustrated Parts Catalogue
- (3) Wiring Diagram Manual

2. **ACCOMPLISHMENT INSTRUCTIONS**



ENSURE ALL ELECTRICAL POWER IS DISCONNECTED.

- A. Release the four Dzus fasteners securing the autopilot computer panel assembly to the lower centre console panel.
- B. Disconnect loom connectors CMPTR-P1 and CMPTR-P2 from electrical receptacles P1 and P2 on the autopilot computer.
- C. Fit the new keying shells to loom connectors CMPTR-P1 and CMPTR-P2.

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NOTE

The connectors are available as complete assemblies only, but it is sufficient to substitute the internal D shaped keying shells from these connectors for the internal keying shells originally fitted to loom connectors CMPTR-P1 and CMPTR-P2. The new internal keying shells are dissimilar, however, and care must be taken to ensure that the correct keying shell is fitted to each loom connector.

- (1) Remove the 2 screws from the external shell of loom connector CMPTR-P1. Pull out and discard the internal D shaped keying shell. Similarly, remove and discard the internal keying shell from loom connector CMPTR P2.
 - (2) Remove the internal D shaped keying shell from electrical connector PN 57-30361 (Amphenol) or PN 372-2280-010 (Collins). Fit this keying shell to loom connector CMPTR-P1 and secure by means of the two original screws.
 - (3) Remove the internal D shaped keying shell from electrical connector PN 57-30362 (Amphenol) or PN 372-2280-020 (Collins). Fit this keying shell to loom connector CMPTR-P2 and secure by means of the two original screws.
- D. Connect the modified loom connectors to the P1 and P2 electrical receptacles on the autopilot computer.
- E. Secure the autopilot computer panel assembly to the lower centre console panel by means of the four Dzus fasteners.
- F. Test the autopilot system.

3. MATERIALS INFORMATION

A. Parts Required per Aircraft

- (1) One set of the following parts is required per aircraft and is to be supplied from the operator's stock or procured from local general aviation suppliers.

ITEM PN	QTY	TITLE
57-30361	1	Connector (Amphenol) or
372-2280-010	Alt	Connector (Collins)
57-30362	1	Connector (Amphenol) or
372-2280-020	Alt	Connector (Collins)

- (2) Parts modified and re identified by the operator.
None.

B. Parts Required to Modify Spares

None.

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C. **Removed Parts**

Internal keying shell from each of two autopilot loom connectors PN 57-30360.

4. **SPECIAL TOOLS AND EQUIPMENT REQUIRED**

None.

5. **RECORDING ACTION**

Record compliance with Service Bulletin NMD-22-2 in the airframe log book.