

Service Bulletin No: 25-035

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ATA Chapter: 25

**EQUIPMENT/FURNISHINGS - GENERAL****INSTALLATION OF A SUPPLEMENTARY AIRCRAFT HEATING SYSTEM (230 V AC) FOR EXTREME COLD TEMPERATURES (NO LONGER REQUIRED, SUPERSEDED BY SB 25-042)****1. Planning Information****A. Effectivity**

Not applicable.

**B. Concurrent Requirements**

Service Bulletin 45-004 - Load Honeywell Primus APEX Option File for various Factory Options (to enable the underfloor temperature indication).

A similar Service Bulletin is available (SB 25-034) with a supply power rating of 110 V AC.

**C. Reason**

To improve engine starting and ensure adequate operating environments for the electrical and avionics equipment when the aircraft is operated after cold soak in subzero temperatures.

**D. Description**

The systems that follow are installed to improve operation of the aircraft in cold soak in subzero temperatures:

- A battery heating system that has heating elements installed around the batteries. This heater element is powered from an external source (230 V AC), through a power receptacle installed on the rear LH fuselage. A pilot light, located along side the power socket, gives an indication when the system is active. The activation of the heater element is controlled by a temperature sensor attached to the fuselage.
- A power outlet that is connected to the battery heating system is also installed. This enables the use of an auxiliary electrical fan-type cabin heater. This auxiliary heater is a commercially-available domestic 'safety' type with a ceramic-core element. It is a free-standing unit (e.g. WINDMERE 230 V AC (1.5 kW) internal cabin heater), with a variable output up to 1.5 kW, using normal European domestic 230 Volt, 15 Amp power.
- A engine heating system that has four heating elements installed around the engine. The heater elements are attached, with sealant (IS 808), to the engine oil sump, the FCU and the LH and RH nose case. These elements are powered from an external source (230 V AC), through a power receptacle which is installed on the front underside of the LH fuselage. A pilot light, located along side the power socket, gives an indication when the system is active.

An Insulated Engine Blanket (P/N: 968.20.13.901) which retains the engine latent heat, is stored on the aircraft. The blanket is installed around the engine cowling; when the aircraft is on the ground and the temperature is expected to drop beneath -15 °C (5 °F). This blanket weighs 4 kg (9 lb.).

Revision 1 to this Service Bulletin corrects the kit list. No rework is needed if you accomplished this Service Bulletin at Initial Issue.

Revision 2 to this Service Bulletin corrects the Aircraft Flight Manual Supplement number and a material number. No rework is required if you accomplished this Service Bulletin at a previous issue.

Revision 2A of this Service Bulletin is issued to advise Operators/Service Centers that the accomplishment of this Service Bulletin is no longer required. This Service Bulletin is superseded by SB 25-042.

For Operators/Service Centers that have not yet accomplished this Service Bulletin, please refer to SB 25-042.