

Service Bulletin No: 23-004

Ref No: 168

Modification No: ECN-02-0284, EC-10-0637

ATA Chapter: 23

**COMMUNICATION - AUDIO INTEGRATING
INTRODUCTION OF A MICROPHONE SELECTOR SWITCH AND CONNECTION FOR THE OXYGEN
MASK MICROPHONE****1. Planning Information****A. Effectivity**

All PC-12 and PC-12/45 aircraft from MSN 401 thru MSN 500 and MSN 321 with KMA24H-71 audio system installed.

B. Concurrent Requirements

None.

C. Reason**(1) Problem**

In normal operation, the hand microphone and the boom microphone are connected to the integrated audio jacks. When it is necessary to wear an oxygen mask, one of these microphones must be disconnected. The oxygen mask microphone must then be connected in that jack. This causes an increase in the flight crew work at a time of possible emergency.

(2) Solution

Install one more microphone jack for each flight crew to let the oxygen mask microphone be permanently connected. A switch is also installed to let the flight crew select boom microphone or oxygen mask microphone. With the installation of a new relay, the hand microphone can be operated when the Push-to-Talk/Press-to-Transmit (PTT) switch is pressed.

D. Description

This Service Bulletin gives the data and instructions necessary to modify the communication system.

Revision 1 to this Service Bulletin changes the wiring to prevent a short circuit to ground making the key line permanently engaged. The wiring change caps and stows two wires at terminal blocks in the flight compartment. Customers who have already accomplished this Service Bulletin at original issue are recommended to accomplish the wiring changes detailed at Para 3.E.

E. Compliance

Optional.

F. Approval

The technical content of this document is approved under the authority of DOA No. EASA. 21J. 357.

PILATUS advises Operators/Owners to check with their local Airworthiness Authorities for any changes, local regulations or sanctions that can affect the embodiment of this Service Bulletin.

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H. Manpower

	Total
Preparation	1.5
Mechanical and electrical installation	45
Test	2.0
Close up	1.5
TOTAL MAN-HOURS	50.0

NOTE: Man-hours figures do not include the time required to cure sealants and adhesives.

I. Weight and Balance**(1) Weight Change**

Not affected.

(2) Moment Change

Not affected.

J. Electrical Load Data

Not changed.

K. Software

Not changed.

L. References

Aircraft Maintenance Manual (AMM), 12-A-06-20-00-00A-040A-A, 12-A-25-10-01-00A-920A-A, 12-A-25-10-03-00A-920A-A, 12-A-25-21-01-00A-920A-A, 12-A-25-21-04-00A-920A-A, 12-A-25-21-05-00A-920A-A, 12-A-25-21-07-00A-920A-A, 12-A-25-22-04-00A-920A-A and 12-A-35-00-00-00A-901A-A.

M. Publications Affected

Illustrated Parts Catalog (IPC).

AMM.

Pilots Operating Handbook.

Wiring Diagram Manual.

N. Interchangeability of Parts

Pre and Post SB 23-004 CB/O2 panels are not interchangeable.

2. Material Information

Operators should send orders for Service Bulletin Modification Kits, to their Authorized Pilatus Service Center, or to:

PILATUS AIRCRAFT LTD.,
CUSTOMER SUPPORT MANAGER,
CH-6371 STANS,
SWITZERLAND

General Aviation:
Tel: + 41 41 619 3333
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PRODUCT SUPPORT DEPARTMENT
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17 JAMES SCHOFIELD DRIVE,
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Tel: (08) 8234 4433
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Operators are requested to advise Pilatus Aircraft Ltd, of the Manufacturer's Serial Number (MSN) and the flying hours of aircraft which are affected by this Service Bulletin.

A. Material - Price and Availability

NOTE: Part Numbers given in this Service Bulletin are correct at the time of approval. Pilatus Aircraft Ltd. reserves the right to change the part numbers as necessary. Part numbers of items delivered with the Modification Kit are correct when the kit is dispatched. This could lead to differences between those part numbers quoted in this Service Bulletin and the Modification Kit if parts are superseded. Operators are requested to check the IPC for delivered parts which differ from those listed in the Service Bulletin Materials Kit List.