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Aircraft — Interchangeability dimensions of battery connectors for automatic coupling

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FOREWORD

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Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 1963 was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and circulated to the Member Bodies in May 1970.

It has been approved by the Member Bodies of the following countries :

Belgium	Greece	Romania
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The Member Body of the following country expressed disapproval of the document on technical grounds :

U.S.A.

Aircraft — Interchangeability dimensions of battery connectors for automatic coupling

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the interchangeability dimensions of battery connectors with automatic coupling which may be used in locations on an aircraft when the battery is lifted vertically or inserted horizontally into a restricted space.

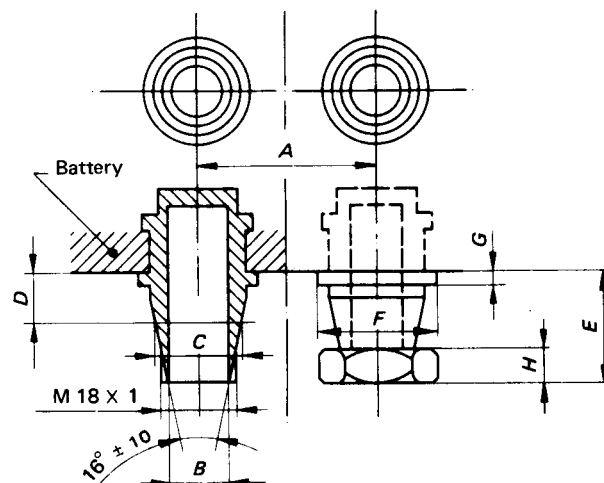
2 DESCRIPTION

The connector system consists of three elements, as follows :

a) Two sockets forming an integral part of the battery and connected internally to the positive and negative terminals. These sockets shall conform to Figure 1. Each socket is fitted with a nut.

b) A detachable part which permits a multiplicity of coupling arrangements, and is fixed to the sockets of the battery (element a) above). It comprises a part made of insulating material supporting two metal inserts. This assembly shall conform to Figure 2.

c) Two pins capable of 3 mm (0,118 in) displacement about their theoretical rest position, mounted on a support permanently fixed to the aircraft structure (male portion). These pins, when inserted into the female inserts (element b) above) fixed to the battery, shall ensure adequate electrical continuity. This assembly shall conform to Figure 3.



Dimension	mm	in
A	46 ± 0,1	1.811 ± 0.004
B	13,75 ^{+ 0,027} ₀	0.541 3 ^{+ 0.001 1} ₀
C	20,28	0.798 4
D	12 ± 1	0.473 ± 0.04
E	28 ± 1	1.102 ± 0.04
F	30 max.	1.181 max.
G	5 max.	0.097 max.
H	6 max.	0.237 max.

FIGURE 1 — Battery sockets