

Issued 1995-08  
Cancelled 2009-12

Superseding AIR4771 and  
Superseded by ARP4771

Recommended Brace Positions

RATIONALE

AIR4771 is being cancelled and replaced by ARP4771.

CANCELLATION NOTICE

This document has been declared "CANCELLED" as of December 2009 and has been superseded by ARP4771. By this action, this document will remain listed in the Numerical Section of the Aerospace Standards Index noting that it is superseded by ARP4771.

SAENORM.COM : Click to view the full PDF of AIR4771a

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2009 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

**TO PLACE A DOCUMENT ORDER:** Tel: 877-606-7323 (inside USA and Canada)  
Tel: +1 724-776-4970 (outside USA)  
Fax: 724-776-0790  
Email: CustomerService@sae.org  
http://www.sae.org

SAE WEB ADDRESS:

**SAE values your input. To provide feedback  
on this Technical Report, please visit  
<http://www.sae.org/technical/standards/AIR4771A>**

## 1. SCOPE:

This SAE Aerospace Information Report (AIR) contains information that can be used by the air transportation industry to provide passengers in forward facing seats, using lap belt restraints only, with consistent "brace for impact" positions. This information is intended to reduce the potential confusion passengers may experience upon being presented with different "brace for impact" positions as they travel on different aircraft or on different carriers. This document does not address child restraint, situations where adult passengers are seated behind fixed tables, or who are using upper-torso restraint, or where passengers are not seated in forward facing seats.

## 2. REFERENCES:

### 2.1 Applicable Documents:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this specification and references cited herein, the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

#### 2.1.1 SAE Publications: Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

ARP1384	Passenger Safety Information Cards
ARP4192	Passenger Safety Video Briefings

SAENORM.COM : Click to view the full text of AIR4771a

## 2.2 Related Publication:

Richard Chandler, Brace for Impact Positions, Proceedings of the Fifth Annual International Aircraft Cabin Safety Symposium, Cosponsored by the University of Southern California, the FAA (Western Pacific Region), and the Southern California Safety Institute, February, 1988

## 3. CONSIDERATIONS AND RECOMMENDATIONS:

### 3.1 Seat Configuration:

Most passenger seats are situated behind another passenger seat, a vertical bulkhead, or a passageway. Depending upon interior configuration of the aircraft and the size of the passenger, the passenger may or may not be able to reach the surface in front. Information should be conveyed on at least two brace positions for passengers in forward facing seats; one for conditions where there is a seat or other cabin furnishing within reach in front of the passenger, and one where there is no seat or other cabin furnishings within reach in front of the passenger.

### 3.2 Brace Positions:

Figure 1 provides the important features of the two brace positions for use by adult passengers in forward facing seats. Figure 1 may be used as a guide in preparing safety information media. It need not be copied exactly, but the intent of the illustration (as indicated by the numbered features) should be maintained. These features need not be specifically given in passenger information if they are clearly shown on passenger safety information cards (reference ARP1384) or in passenger safety video briefings (reference ARP4192).