

Let's Get It Clear No.36 First published in THIIS January 2023 By Dr Barend ter Haar

Travelling by air with a wheelchair

2. Air Travel Configuration Card

When we board a plane, we are not asked to have our legs removed and placed in the hold of the plane. However, most wheelchair users will be expected to leave their 'legs', i.e. their chair, in the hands of others while the chair is placed in the hold, and live in hope that it will be returned to them intact at their destination. Sadly, frequently the chair is not returned intact. To reduce the risk of loss or damage, a series of standards have and are being developed in the USA, the first volume of which concentrates on mobility devices (Figure 1).

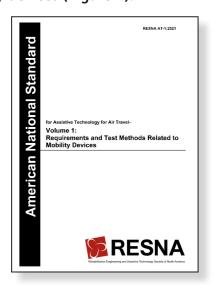


Figure 1. American National Standard for Assistive Technology for Air Travel

This Volume is divided into four sections:

- 1. Vocabulary and Definitions for Assistive Technology and Air Travel
- 2. Information and Instructions for preparing Wheelchairs to be Stored and Transported in Commercial Aircraft
- 3. Handling Procedures for Powered Mobility
 Devices (PMDs) to be Stored and Transported in
 Commercial Aircraft
- Labelling and Design Requirements for Mobility Devices Designed for Stowage and Transport in Commercial Aircraft

The core of Section 4 is the content of an Air Travel Configuration Card (ATCC) (Figures 3 and 5) which is designed to be with the wheelchair, but also accessible online via a OR code on the chair.



Figure 2. QR code link to ATCC

There are four key aspects to this card. The first is to provide full name and contact details of the user. The second is that the wheelchair user is expected to remove as many items as possible from the chair (such as seat cushion, head support, joystick, etc) and take those items into the cabin as 'hand baggage'. The principle is that if something is 'removable' you do not want to risk it coming away in the hands of a baggage handler and being 'mislaid'. Note that if an item like a joystick is not removable, then try fitting a hard box, or similar, to place around the joystick to protect it from being damaged.

The third aspect describes activities that the wheelchair user may be able to do when handing over the chair, but also ideally the baggage handlers will have been trained to do, which includes folding up foot supports, isolating battery power, disengaging the drive system etc. The fourth aspect is to fold the chair into its smallest footprint and configuration, so that it falls within the maximum size (e.g. under a height of 840mm) that can be loaded into an aircraft hold.

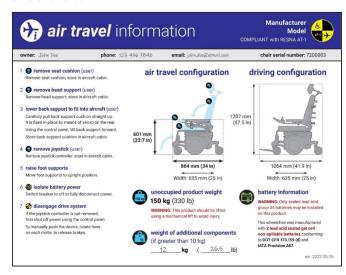


Figure 3. Air Travel Configuration Card example for a powered wheelchair - Front

Weight and battery information

The front of the ATCC has weight and battery information for baggage handlers' information and protection (Figure 4). Batteries must be non-spillable, and the following information is required: Number of batteries; Battery chemistry; Access location; Nominal voltage; Watthour rating if Lithium.

The rear of the ATCC (Figure 5) provides information as to the situation of the battery isolation switch (and if there isn't one, where the batteries can be unplugged) (Figure 6).



Figure 4. Weight and battery information example

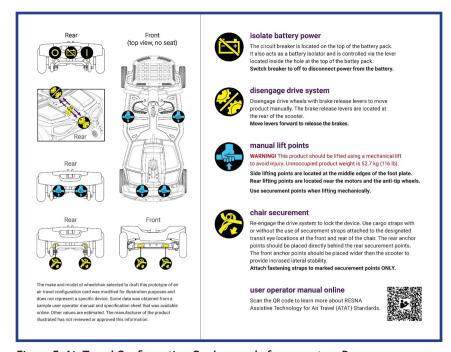


Figure 5. Air Travel Configuration Card example for a scooter - Rear



isolate battery power SWITCH

The circuit breaker is located in the rear beneath the tail lights. It also acts as a battery isolator and is controlled using the lever located inside the hole at the bottom of the rear battery cover. Switch breaker to off to disconnect power from the battery.

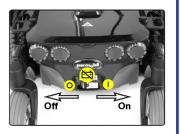


Figure 6. Battery isolation switch information example

Disengaging the drive system

This is information is provided on the rear of the ATCC (Figure 7):



disengage drive system

Disengage drive wheels with brake release leavers to move product manually. the brake release levers are located at the rear of the mobility device.

Move levers outwards to release the brakes.



Figure 7. Drive disengagement information example

Where to lift the chair

The chair should have manual lift point labels placed where it is safe and appropriate for the handlers to lift the chair (Figure 8):



manual lift points

WARNING! This product should be lifted using a mechanical lift to avoid injury. Unnoccupied product weight is 150 kg (330lb).

Use securement points when lifting mechanically.

Manual lift points are located on all four caster arms.



Figure 8. Manual lifting points information example

Chair securement

The chair should have yellow labels depicting where tie-down strapping can be attached (Figure 9). After attachment, the drive system should be re-engaged.



chair securement

Attach fastening straps to RESNA WC19 securement point.

After securing the device, re-engage the drive system to lock the drive wheels.

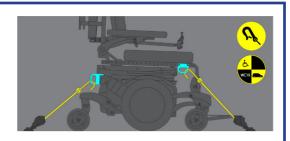


Figure 9. Securement information example

Conclusion

When travelling by air no-one can be certain that their baggage will arrive with them and undamaged. Given the significant disruption and inconvenience that lost or damaged luggage can cause, and how catastrophic this can be for the user if related to their wheelchair, it is vital that actions are taken to reduce this risk. Hopefully, now, wheelchair users can improve the odds by the following the guidance in the US standard and by making use of the ATCC. The downside is that this is a US standard and being taken up by US airlines in the US. However, other airports and other airlines are slowly coming aboard as well.

Now that the US standard volume 1 has been published, various wheelchair and scooter manufacturers have been working on creating ATCCs for their chairs, and adding appropriate labelling to the items. If you are a purchaser or supplier of a chair that is to be used during air travel, then seek out a mobility device that meets the requirements.











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