Accessories for the Wheel-chair Bound

Deployed Configuration

Stowed Configuration

Joystick swing-away device

Communication board support linkage

Award Winner in the PVA student design competition RESNA ‘99, June 25-29, 1999
Communication Board Support Linkage

- The communication board is attached to the coupler link,
- Limit switches and physical stops set the range of motion,
- The wheelchair controller connects the DC drive motor to the switches and batteries.
Joystick Swing-away Device

Deployed

The mounting bar is horizontal in front.

Mid-position

The coupler rotates to the right and back.

Stowed

The bar is again horizontal behind the chair.

- Chin-controlled joystick is mounted to standard support rod attached to the coupler link,
- Limit switches and physical stops set the range of motion,
- The DC motor drive is controlled by the electric wheel-chair controller.