Miller's Adaptive Technologies

INSTALLATION INSTRUCTIONS

DYNAMIC BACK CANE ADJ-ANG INTERFACE
PRODUCT: 49460, 49480, 49412

TOOLS NEEDED: 3/16" HEX KEY, 1/2" WRENCH, 7/16" WRENCH

Purpose:
This innovative product was designed for users who display strong extensor spasticity leading to ongoing breakage of wheelchair frames, back canes and brackets. The device allows resistive movement during extension and articulation rearward of the back, while maintaining pelvic positioning in the chair, and then returns the client to the preferred seating position. This device also provides the additional benefits of increased sitting tolerance and duration by reducing discomfort & pressure while simultaneously reducing those ongoing and expensive wheelchair repairs. This device replaces the OEM back cane bracket.

Precautions:
The installation of this device will prevent folding back canes from functioning as originally designed for the chair. Care should be taken at the time of installation to ensure that there is sufficient space within the ID of the Dynamic Back Cane support tubes to fit the OEM back canes. If there is not sufficient space to fit the OEM back cane into the Miller's Dynamic Back Cane support tubes, the device will not function as designed. Care should also be taken to ensure that the OEM fasteners that have been removed from the existing back cane support bracket are of sufficient length to fit and reinstall in the Miller's Dynamic Back Cane bracket. Otherwise, you should use the provided Miller's fastener kit provided with the product. **Miller's assumes no responsibility for injuries which may result from improper installation or use of this device.**

Directions:

Step 1:
Remove the OEM back cane brackets from the wheelchair frame. Save the fasteners for future use if you will be using them in lieu of the provided Miller's fastener kit. If there are any devices (e.g. locking latches, folding release pins,.etc.) that are installed in the back canes, they will need to be removed before proceeding. Loosen or remove the back cane from any other attachment points at the back of the chair.

Step 2:
Align the Dynamic Back Cane Adj-Ang Interface onto the wheelchair frame in the preferred mounting position to ensure that there is clearance for the existing/required seat depth. Make any necessary adjustments to the seat position to avoid interference with the device before proceeding. Bolt the Dynamic Back Cane Adj Ang Interface bracket onto the wheelchair frame in the preferred seat-back angle opening position (90, 100, or 110 degrees – see **DIAGRAM 1**) using the OEM fasteners removed from Step 1, or using the fasteners in the provided Miller's fastener kit.

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Step 3:
Make certain that the guide pin of the gray knob is in the “locked” position (in the semi-circular cut out on the front of the bracket.) Slide the OEM back canes into the Dynamic Back Cane support tubes. Adjust the height of one of the back canes so that the cane is at the desired position. Adjust the height of the cane slightly +/- until the ¼” holes of the OEM cane is aligned with the closest corresponding hole of the Dynamic Back Cane support tube and pass a ¼”-20 x 1 ¾” HHCS bolt through the aligned hole. Secure with ¼”-20 flat washers and ¼”-20 nylon lock-nut provided in the Miller’s fastener kit. Repeat for a second hole in the same back cane, if allowable, as necessary. Repeat for the second bracket/device/cane.

Step 4:
Do not tighten the fastener that passes through the gray knob. This fastener/knob is spring loaded and is set at the factory in the correct position. Confirm that all other fasteners are tightened and secured.

Step 5:
With the client in the chair, adjust the gray knob by pulling it away from the bracket and rotating it 90 degrees so that the guide pin can be inserted into one of the radiused slots (top or bottom). This will allow the back canes to articulate through the allowable range of motion. If the guide pin is placed in the center radiused slot, in front of the gray knob (toward the client,) this will limit the ROM to approximately 0-15 degrees of travel. If the guide pin is placed in the center of the radiused slot, to the rear of the gray knob (away from the client,) this will limit the ROM to approximately 15-30 degrees of travel.

Step 6:
To return the back to the preferred upright and locked (transport) position, allow the client to sit upright, pull the gray knob away from the bracket and rotate the knob so that the guide pin can be extracted from the radiused slot and moved to the semi-circular cut out on the front of the bracket. Perform this action for both devices to ensure proper locking/safety procedures for transport.

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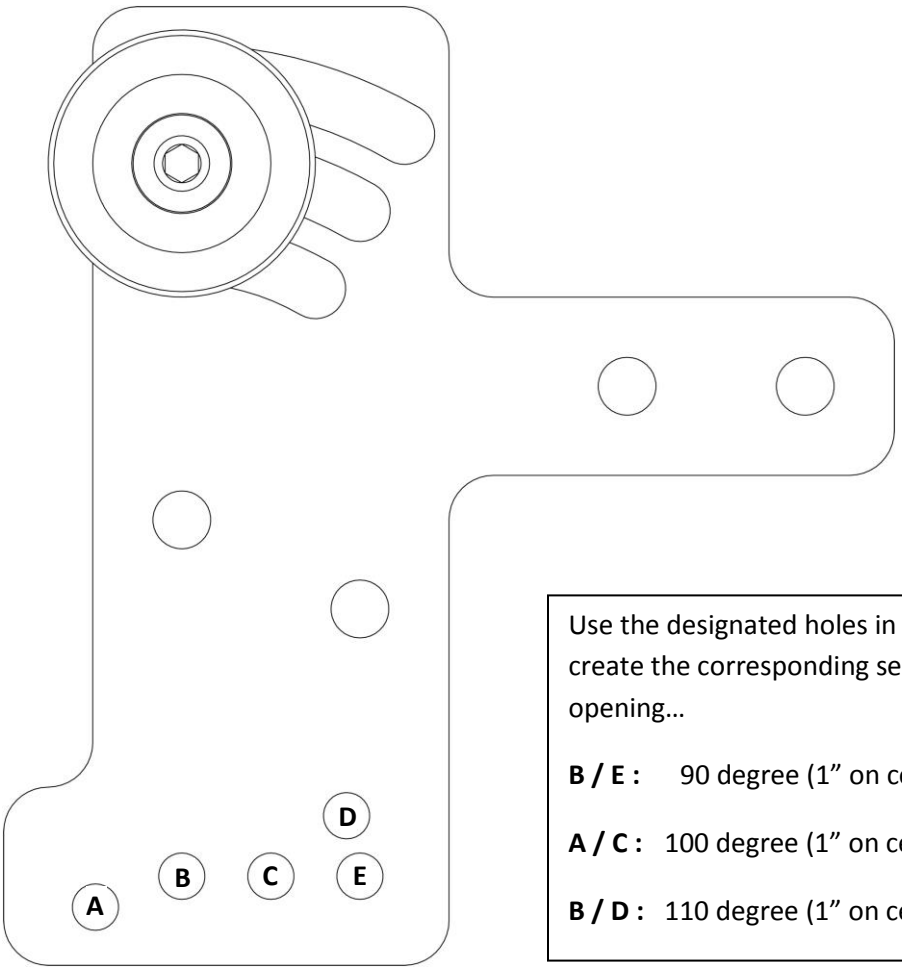
DYNAMIC BACK CANE ADJ-ANG INTERFACE:
SEAT-BACK ANGLE BRACKET INSTALLATION
PRODUCT: 49460, 49480, 49412



Use the designated holes in the bracket to create the corresponding seat-back angle opening…

B / E : 90 degree (1" on center holes)

A / C : 100 degree (1" on center holes)

B / D : 110 degree (1" on center holes)

DIAGRAM 1

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