

A woman with long brown hair, wearing dark sunglasses and a blue and white striped t-shirt, is smiling. She is wearing a black posture brace over her shoulders. The brace has a blue circular logo on the left side. The background is a blurred outdoor setting with greenery and a blue sky.

UPPER BODY POSITIONING

Appropriate trunk position is essential for good respiration, digestion, head positioning, and functional reach, with stability.

USER GUIDE FOR UPPER BODY POSITIONING

TRUNK KYPHOSIS

Uncorrected posture



ASSESSMENT

- Forward flexion of the upper trunk, usually thoracic area
- Lumbar flexion, commonly with posterior pelvic tilt
- Shoulders protracted
- Little contact with the back support
- Individual may have to hyperextend neck to see straight ahead

CAUSES

Wheelchair issues: seat to back angle too closed for available range of motion and inadequate support to prevent postural collapse.

Physical conditions: flexible or fixed kyphosis of the spine, posterior pelvic tilt, tight hamstrings, tight hip flexors, low tone in trunk, and muscle weakness.

ANTERIOR SUPPORT

The goal of the anterior trunk support is to extend the trunk and retract the scapulae, reducing the kyphosis. This aligns the trunk over the pelvis, improves respiratory capacity, increases safe swallowing, improves head control, maintains a good visual field, and improves overall pressure distribution. If the individual is capable of active trunk extension, dynamic Stayflex™ strapping may allow more anterior movement for functional reach, while still providing stability and improved posture.

Improved positioning with a Standard Shoulder Harness



ANTERIOR SUPPORT OPTIONS:

The objective of the shoulder harness is to extend the trunk and retract the scapulae.



Standard Shoulder Harness Trimline Shoulder Harness

TRUNK LORDOSIS

Uncorrected posture



ASSESSMENT

- Hyper-extension of the spine, usually the lumbar area
- Often seen in conjunction with anterior pelvic tilt
- Shoulders retracted
- Limited contact with the back support

CAUSES

Wheelchair issues: seat to back angle too closed so that the individual has to over-extend to remain upright, reversed biangular back, and inadequate support to prevent postural collapse.

Physical conditions: flexible or fixed lordosis of the spine, tight hip flexors, increased muscle tone, low tone in trunk, muscle weakness, and "fixing" pattern to extend trunk against gravity.

ANTERIOR SUPPORT

The goal of the anterior trunk support is to provide pressure to the sternum, reducing the lordosis and pelvic anterior tilt. This aligns the trunk over the pelvis and reduces shoulder retraction and fixing to facilitate function. If the individual is capable of active trunk flexion, dynamic support may allow more anterior movement for functional reach, while still providing stability and improved posture. For some users, reducing lordosis may require additional postural support at the lower ribs and abdomen.

Improved positioning with a Stayflex™ Anterior Trunk Support



ANTERIOR SUPPORT OPTIONS:

The objective of the shoulder harness is to provide pressure over the sternum to reduce thoracic and lumbar hyperextension and encourage more shoulder protraction.



Stayflex™ Trunk Support

USER GUIDE FOR UPPER BODY POSITIONING

TRUNK SCOLICISIS

Uncorrected posture



ASSESSMENT

- Lateral flexion of the spine, usually in the thoracic area
- Can be C curve or S curve
- Often seen in conjunction with pelvic obliquity
- Shoulders are not level
- Neck often flexed in the opposite direction to align visual field

CAUSES

Wheelchair Issues - inadequate postural support to prevent postural collapse to the side, and inadequate lateral support. Uneven seating surfaces or a chair that is too wide for the user may cause the user to lean to one side to gain lateral or arm rest support.

Physical conditions: flexible or fixed lateral scoliosis of the spine, pelvic obliquity, increased and asymmetrical muscle tone shortening one side of the trunk, low tone in trunk, and muscle weakness.

ANTERIOR SUPPORT

The goal of the anterior trunk support is to work in conjunction with appropriately placed lateral trunk and pelvic pads to align the trunk to midline. This allows the head to be level over the trunk for vision.

Improved positioning with Crossover Trimline Shoulder Harness



ANTERIOR SUPPORT OPTIONS:

The objective of the support is to bring the user into a more midline, symmetrical trunk posture.

Monoflex™ Dynamic Chest Belt

Sometimes, only a chest belt is needed to maintain the user between the lateral supports. Chest belts are available padded, or unpadded as needed.

A Monoflex™ Dynamic Chest Belt can be used to allow additional range of motion.



TRUNK ROTATION

Uncorrected posture



ASSESSMENT

- Rotation of the spine, usually in the thoracic area
- Can be double rotation, where a user with a rotated lower spine may rotate the upper spine in a compensatory posture in order to face forward.
- Often seen in conjunction with pelvic rotation
- Can be seen in combination with scoliosis (rotational scoliosis)
- One shoulder is forward

CAUSES

Wheelchair Issues: inadequate postural support to prevent pelvic rotation and poorly fitted, contoured back support.

Physical conditions: pelvic rotation and increased and asymmetrical muscle tone shortening one side of the trunk.

ANTERIOR SUPPORT

The goal of the anterior trunk support is to pull the forward shoulder back so that the trunk is aligned in the sagittal plane and the user can face forward without neck rotation for vision, swallowing, and breathing.

Improved posture with a backpack position Trimline shoulder harness



ANTERIOR SUPPORT OPTIONS:

The objective of the support is to de-rotate the trunk.

Sometimes, only a single shoulder harness strap is required on the forward side.



STAYFLEX™ TRUNK SUPPORT

Unparalleled Strength and Performance - Safer than a butterfly harness

Bodypoint Stayflex™ is unlike any other dynamic posture support. At Bodypoint we always design our products for comfort and support. With the Stayflex we took it further. The patented design includes a stabilizing lower panel to limit stretching and riding up, while the proprietary elastic pad material allows comfortable, controlled movement. Plus, the lower quick release swivel buckles self adjust to make sure you get that proper fit and placement.



Proprietary elastic pad material offers controlled stretch for dynamic movement



New Stayflex rear-pull options provide two solutions in one. The rear-pull option can be used in two configurations, with or without the buckle. It has an adjustable length to accommodate different back support thicknesses



Stabilizing lower panel limits stretching and riding up

STAYFLEX™

STANDARD STAYFLEX™	FRONT-PULL		REAR-PULL		
	Size	With Zip	Without Zip	With Zip	Without Zip
 <i>Shown with zip</i>	XS		16204		15924
	S	16082	16167	16891	15788
	M	16068	16143	16877	15740
	L	16044	16129	17379	15702
	XL	16105	16181	15665	15887



CHEST BELT



NARROW STAYFLEX™	FRONT-PULL		REAR-PULL		
	Size	With Zip	Without Zip	With Zip	Without Zip
 <i>Shown with zip</i>	M	16242	16303	12237	17225
	L	16228	16280	15962	15405
	XL	16266	16327	12251	10011



Features a premium hook-and-loop closure with a leather-stiffened ring for easy adjustment by users with limited hand function.

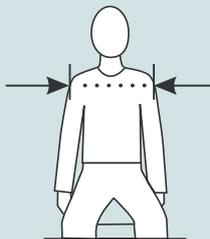
Usable length: 46" (117cm) Webbing Width: 2" (50mm)

15450 Cinch-mount™

15474 Cinch-mount™ (with **14873** Slip-on Pad)

You can also use a Monoflex™ as an alternative to a Chest Belt.

MEASURING FOR STAYFLEX™ AND SHOULDER HARNESS

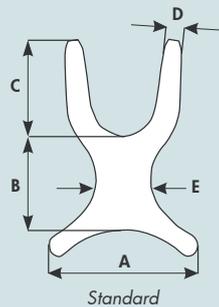


Measure shoulder width. If the shoulder width falls between two sizes, consider other factors such as growth, weight changes, and clothing.

XS	9.5–11" (24–28cm)
S	11–13" (28–33cm)
M	13–16" (33–41cm)
L	16–19" (41–48cm)
XL	19–22" (48–56cm)

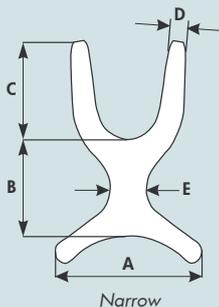
STAYFLEX™ MEASUREMENTS

STANDARD STAYFLEX™



SIZE	A	B	C	D	E
XS	1.25" (22cm)	5" (13cm)	5.25" (13cm)	1.50" (4mm)	3.75" (9mm)
S	9" (23cm)	5.50" (14cm)	6.50" (16cm)	1.50" (4cm)	4.75" (12cm)
M	12" (30cm)	7" (18cm)	8" (20cm)	1.50" (4cm)	5" (13cm)
L	15" (38cm)	8.50" (21cm)	9" (23cm)	2.50" (6cm)	5.25" (13cm)
XL	18" (46cm)	10" (25cm)	10.50" (27cm)	2.25" (6cm)	6.50" (16cm)

NARROW STAYFLEX™



SIZE	A	B	C	D	E
M	12" (30.5cm)	7" (18cm)	8" (20.5cm)	1.75" (4cm)	3.50" (9cm)
L	15" (38cm)	8.50" (21.5cm)	9" (23cm)	2.25" (6cm)	3.50" (10cm)
XL	18" (46cm)	10" (25.5cm)	10.50" (27cm)	2.25" (6cm)	3.75" (10cm)

SHOULDER HARNESSSES

STANDARD H-STYLE SHOULDER HARNESS

Has an adjustable sternum strap to ensure a perfect fit; ideal for controlling strong, spastic movement.



SIZE	PAD LENGTH	FRONT-PULL	REAR-PULL
S	12" (30cm)	15634	15559
M	13.5" (34cm)	15672	15573
L	16" (40cm)	15719	15597
XL	18.5" (47cm)	15757	15610

STAYFLEX™ AND SHOULDER HARNESS ATTACHMENT OPTIONS



REAR-PULL

Rear-pull harnesses are ideal for use with thicker back supports or when you want the buckle or adjustment away from the user.



OPTIONAL CONFIGURATION

For use with Cam Lock buckles or other mounting hardware, the side-release buckles may be removed from the rear-pull strap to provide a longer length of straight webbing.

Cam Lock not included.



FRONT-PULL

Front-pull attachment provides for maximum stability while allowing adjustment standing either behind or in front of the user.

TRIMLINE STYLE SHOULDER HARNESS

These are made with two independent padded straps which allow the greatest degree of freedom in fitting the chest.



BACKPACK POSITION

Promotes respiration by encouraging shoulder retraction, while stabilizing the trunk.



CROSSOVER POSITION

Comfortable fit which does not restrict arm movement.

SIZE	TRIMLINE PAD LENGTH	FRONT PULL	REAR PULL
S	9.25" (24cm)	15856	15795
M	11.5" (29cm)	15894	15818
L	13.5" (34cm)	15931	15832

MONOFLEX™ ANTERIOR TRUNK SUPPORT

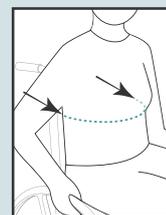


The perfect dynamic abdominal or chest belt. The comfortable, high-strength elastic pad provides just the right amount of stretch while maintaining substantial control. Side-release buckles allow adjustment and release on both sides for convenience. Versatile mounting hardware fits any type of solid or sling back support. Ideal to provide increased stability in transport.

SIZE	PAD LENGTH	PAD WIDTH	PART NO.
XS	12.25" (31cm)	3" (76mm)	15528
S	15.50" (39cm)	3.5" (89mm)	15504
M	18.25" (46cm)	4" (10cm)	15498
L	21.50" (55cm)	4.5" (12cm)	15481
XL	24.50" (62cm)	5" (13cm)	15511

MEASURING FOR THE MONOFLEX™

Measure the user's trunk around the front and sides at the height at which the Monoflex will be worn. Consult the pad sizes (above) and select the size that will cover the front and wrap at least halfway around each side of the trunk, leaving a gap in the front of the wheelchair's backsupport to allow space for tightening the buckles.



SIZE	MIN/MAX FIT RANGE
XS	114- 17-1/2" (36-45cm)
S	18- 21-1/2" (46- 55cm)
M	22- 25-1/2" (56-65cm)
L	26- 29-1/2" (66-75cm)
XL	30- 33-1/2" (76-85cm)

FEEL SAFE AND SECURE with the Bodypoint® Showerchair Belt



SHOWERCHAIR BELT

The Bodypoint showerchair belt with our proprietary Aeromesh® padding provides safety without compromising the comfort and health of the user. Water and air pass easily through the Aeromesh® fabric, allowing the client to be bathed completely, and the belt to dry quickly after use. Its flexible construction and universal shape allow it to be used in various ways to secure the user: across the chest or abdomen to prevent forward/lateral falls, or fitted snugly across the knees to keep clients from slipping forward and out of the chair.



15979 Medium (without clamps)

16501 Medium (22mm clamps)

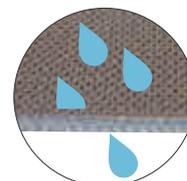
16518 Medium (25mm clamps)

16532 Large (without clamps)

16488 Large (22mm clamps)

16495 Large (25mm clamps)

Water and air easily pass through the Aeromesh® fabric.



UNIVERSAL ELASTIC STRAP



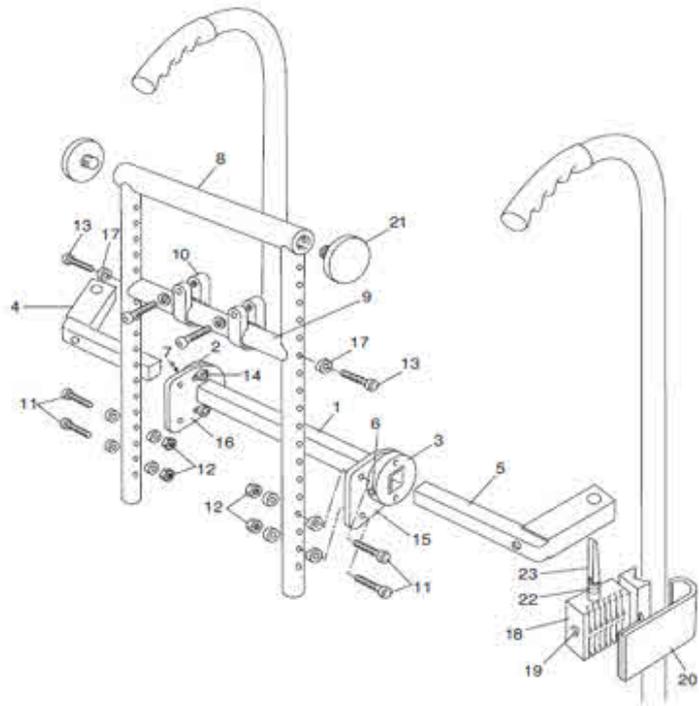
A versatile, easily removable anterior trunk support, abdominal support or positioning tool for therapists, users and caregivers. The simple thumb loop hook-and-loop closure provides easy one-handed opening and adjustment. Usable length: 56" (152cm)

16471 Small Width: 3" (75mm)

16464 Large Width: 4.5" (110cm)



BES BACK SHOULDER HARNESS MOUNTING KIT



For a shoulder harness to be mounted correctly, the top of the harness should be fixed so that the top straps are placed horizontally and level with the top of the shoulders. Many wheelchairs, particularly those designed to be folded, do not have a fixation point at this height which is solid enough on which to mount a shoulder harness appropriately. Obviously, if a shoulder harness is fixed too low, then the wheelchair occupant is pulled downwards. If the harness top straps are positioned too

far apart, the harness does not position properly, with the risk of it falling off the shoulders.

BES Rehab Ltd has introduced a mounting kit, the BES Back, which overcomes these problems. The basis of this is a mounting system that can be attached to the back uprights, including over canvas. Into this is placed the harness mounting system which offers the following benefits:

- Ease of mounting
- Removable single-handed

- Unobtrusive
- Has variable adjustability for height, width and angle

This system allows wheelchair occupants whose wheelchairs have even the most basic of foldable systems with canvas back supports and attendant push handles to have a firm, appropriately positioned fixation point for an upper body positioning harness.

BES BACK

Part Number	Description
ST2000	Mounting Kit (Complete)

Part Number	Description
ST2010	Central Strut (1-7, 14-16)
ST2020	Mounting Blocks (18-20, 22, 23)
ST2030	Harness Frame (B38-13, 17, 21)