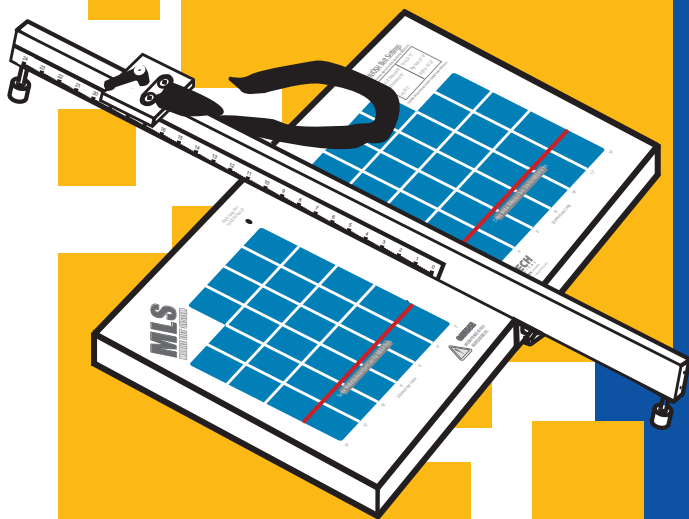


# Assembly and Operating Instructions

# MLS

## MOBILE LIFT SYSTEM

Patent 6572567 B1

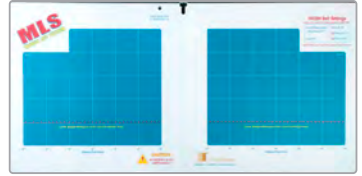


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# COMPONENTS

Please check package to ensure all parts are present:

MLS Platform



42" Long Rail

or

Split Rail - 29" rail and 13" rail



2 fasteners



5/32" hex wrench



Belt slider block with adjustable belt



T-pin



Eye bolt



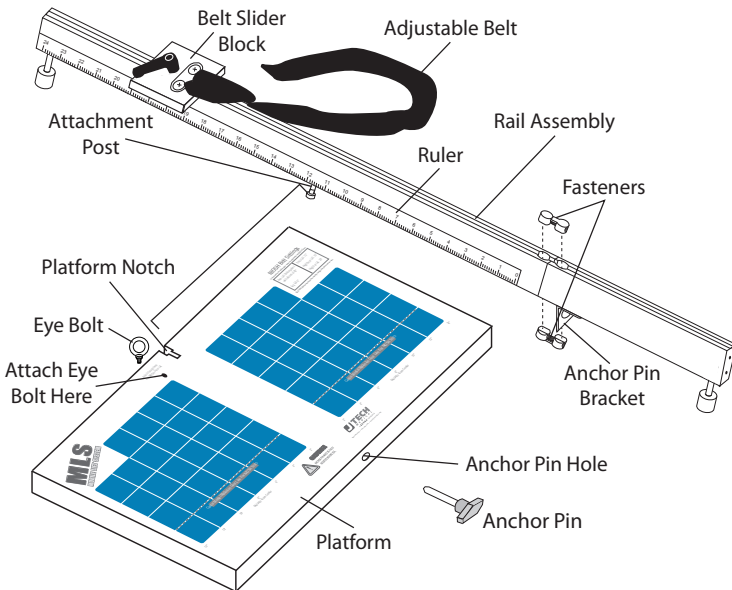
Accessory bag



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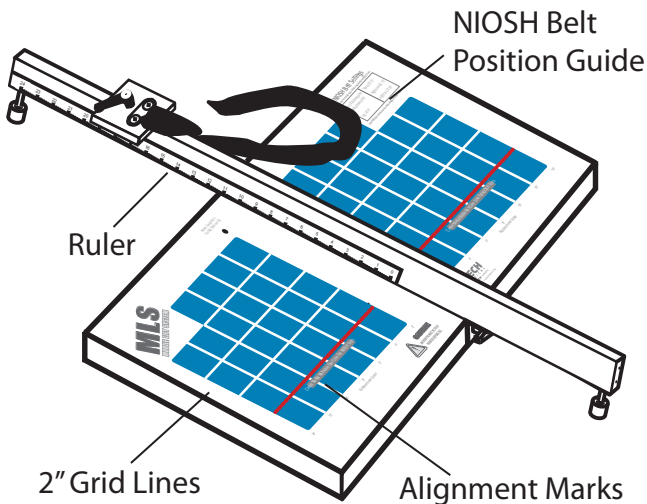


1. Slide the belt slider block onto the 29" rail.
2. If you have the long rail instead of the split rail shown below, skip step 3 and move on to step 4.
3. Join rails by inserting the 13" rail pin into center hole of 29" rail. Insert fasteners in top and bottom of joined rails. Tighten fasteners with hex wrench until hand tight.
4. On rail assembly, locate attachment post and anchor pin bracket. (Do not loosen bracket hex wrench bolt).
5. Set rail assembly on platform and slip attachment post into platform notch. Move rail assembly back to secure post in the narrow portion of notch.
6. With rail assembly sitting on platform, align anchor pin bracket and anchor pin holes. Fully insert anchor pin through anchor pin bracket and anchor pin hole.
7. Insert eye bolt into threaded hole on top of platform and secure until finger tight.
8. Adjust rail feet so they touch the ground without lifting platform or rail off ground and tighten nut against rail to secure using a 7/16" wrench (not included).



## USING THE MOBILE LIFT SYSTEM

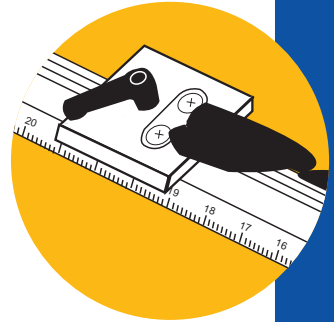
1. The ruler on the side of the rail assembly is used when adjusting belt position for tests. Center belt over appropriate ruler number for the test being conducted.
2. The line indicated by the red dots marks position of the medial malleoli for NIOSH static lift tests. The label includes lines in 2" increments to assist in retest repeatability.
3. The platform eye bolt is used to attach a gauge for NIOSH Floor Lifts.



## BELT SLIDER ADJUSTMENTS

To release belt slider block, turn handle counterclockwise until belt slider block slides easily. Move belt slider block to desired position.

Turn handle clockwise to lock belt slider block in place. *If handle interferes with or touches belt, lift up on handle and turn it out of the way.* Make sure belt slider block is still locked in place before testing.



### Precautions

Caution: Make sure fasteners in split rail are hand tight before testing.

Caution: Make sure anchor pin is inserted completely before testing.

Caution: Belt should always be perpendicular to rail when user is exerting force.



**ANCHOR PIN MUST BE FULLY INSERTED BEFORE USE.**



**CAUTION**  
ADJUSTMENT OF SLIDING BELT ANCHOR TO BE MADE ONLY BY QUALIFIED MEDICAL PERSONNEL



**BELT ANCHOR MUST BE FIRMLY CLAMPED IN PLACE BEFORE USE**



## Arm Lift

T-bar height: variable. Slider distance: variable. Stand patient on platform with medial malleoli over red dotted line with feet shoulder width apart. Have patient flex elbows and adjust belt slider block so belt attachment is directly below patient's hand. Set T-bar height so that the T-bar rests in patient's palms. Make sure belt slider block is securely locked in place before testing.

## Leg Lift

T-bar height: 15". Slider distance: 0". Place medial malleoli over red dotted line with feet far enough apart to fit T-bar between medial borders of the knees. Set T-bar height to 15" and center the belt over 0" on the ruler. Make sure belt slider block is securely locked in place before testing.

## Torso Lift

T-bar height: 15". Slider distance: 15". Place medial malleoli over red dotted line with feet shoulder width apart. Adjust T-bar height to 15" and belt slider block to 15". Make sure belt slider block is securely locked in place before testing.

## Floor Lift

Slider distance: 10". Attach gauge to eye bolt with hook attachment so T-bar height is approximately 6". Place medial malleoli over line, with feet shoulder width apart, adjust belt slider block to 10". Make sure belt slider block is securely locked in place before testing.

## High Near

T-bar height: 6". Slider distance: 10". Attach gauge to eye bolt with hook attachment so T-bar height is approximately 6". Place medial malleoli over line, with feet shoulder width apart, adjust belt slider block to 10". Make sure belt slider block is securely locked in place before testing.

## High Far

T-bar height: 60". Slider distance: 20". Place medial malleoli over red dotted line and feet shoulder width apart. Adjust T-bar height to 60" and belt slider block to 20". Make sure belt slider block is securely locked in place before testing.

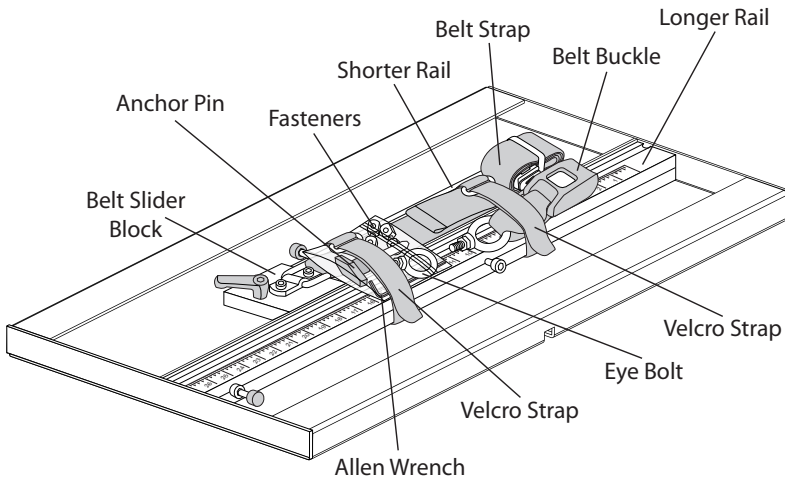


## PACKING INSTRUCTIONS

1. Remove anchor pin and eye bolt. Place in accessory bag.

### The remaining instructions apply if you have the split rail:

2. Remove fasteners from the two rail pieces using a 5/32" hex wrench. Place fasteners and wrench in accessory bag.
3. Remove belt slider block from split rail.
4. Unjoin the split rail.
5. Place larger rail in bottom of platform, atop the Velcro straps.
6. Place smaller rail on other side of cross-member.
7. Place belt slider block up against one end of the shorter rail and lay belt strap along the shorter rail.
8. Place accessory bag on top of larger rail and in line with one Velcro strap, and the belt buckle in line with the other Velcro strap. Tighten Velcro straps.



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