Field Installation and Usage Instructions
Part No. TMS-1605-90
Side Rail Hinge Assembly

For All Model TMM Chairs
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IMPORTANT NOTES ABOUT THIS MANUAL

This Field Installation and Usage Instruction document is designed to assist you with installation of the TransMotion Medical Product. Carefully read this document thoroughly before using the equipment or doing service/maintenance on it. If you are unable to understand the WARNINGS and CAUTIONS and instructions, contact TransMotion Medical customer service before attempting to operate or service the equipment otherwise injury or damage may result.

To assure safe operation of this device, it is essential that methods and procedures be established for educating and training staff on the safe and effective operation of the product.

TransMotion Medical reserves the right to change specifications without notice.

The information contained in this document is subject to change without notice.

Specifications listed are nominal and may vary slightly from unit to unit due to tolerance variations or power supply variations.

Photographs and illustrations contained within this document may not depict exactly the model you have. This document can cover many closely related models.

SPECIAL NOTES - SIGNAL WORDS

Signal words are used in this manual and apply to hazards which could result in injury or property damage. The following is a definition of those signal words as used in this document:

⚠️ DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ WARNING
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠️ CAUTION
Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices or potential property damage hazards.

⚠️ NOTICE
Provides important information, makes special instructions clearer, or provides service personnel information to make maintenance easier.
TOOLS REQUIRED

Tools required to install rail hinge assembly:
- 7/16” Wrench (or socket with ratchet drive)
- 3/8” Wrench (or socket with ratchet drive)
- 1/4” Allen Wrench (or socket with ratchet drive)
- 5/32” Allen Wrench (or socket with ratchet drive)
- Phillips Head Screw Driver
- Power Drill
- 17/64” Diameter Drill Bit

Image to come.

PARTS INCLUDED IN TMS-1605-90 KIT

Verify that you have all the parts shown. If not, contact TMM Service at 1-800-237-3377.

- (4) Thin Jam Nut (TMM-1698-04)
- (2) Ball Joint (TMM-1697-04)
- (2) Shoulder Bolt (TMM-1696-04)
- (2) Adjustable Arm Rail Hinge (TMM-1695-18)

REMOVING CURRENT LATCH MECHANISM

Rotate side rail into lowered position until rail is firmly held by catch.
Remove seat cushion.

**NOTICE**
Do not discard pad upon removal. Pad will be reused after kit installation.

Using ¼" Allen wrench, detach current latch mechanism by removing two bolts.

**NOTICE**
Discard current latch mechanism unless otherwise directed by TMM Representative.

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**PREPARING FOR SIDE RAIL HINGE ASSEMBLY INSTALLATION**

**To Remove Side Rail:**

1) Remove two nuts with 7/16” wrench.
2) Remove two shoulder bolts with 5/32” Allen wrench.

**CAUTION**
Use caution when loosening shoulder bolts. Rail will fall once shoulder bolts are removed.

**NOTICE**
Do not discard rail, shoulder bolts, or nuts upon removal. Parts will be reused during installation.
Remove seat pan by removing four pan head screws.

⚠️ NOTICE
Do not discard seat pan, pan head screws, or additional hardware removed during this step. Parts will be reused during installation.

Drill hole to .265" (minimum).

⚠️ CAUTION
Refer to your facility’s procedures for power tool usage for safety. Do not use power tools unless trained to do so.
INSTALLING SIDE RAIL HINGE ASSEMBLY

**CAUTION**
ENSURE FINGERS ARE NOT PINCHED DURING INSTALLATION.

With side rail hinge assembly between legs in side rail casting, slide shoulder bolts through rail hinge casting assembly as shown.

Position side rail hinge assembly as shown.

With one hand, support rail under seat weldment. With free hand, screw shoulder bolts into seat weldment ears. Refer to corresponding picture.
Remove one jam nut from ball joint. Guide threaded end of ball joint into drilled hole.

**NOTICE**
One jam nut must be on ball joint thread below seat frame.

With ball joint thread protruding through seat frame, attach second jam nut to hold ball joint.

**NOTICE**
Do not tighten top jam nut at this step.

Attach two nuts.
ADJUSTING SIDE RAIL ANGLE

To move outward, rotate jam nut as show above.

To move inward, rotate jam nut as show above.
Once aligned, tighten top jam nut.

⚠️ **NOTICE**
1) You do not need to hold bottom nut to tighten top. Once aligned, top nut is tightening nut.
2) When adjusting, ensure bottom jam nut is contacting seat frame.
3) Ball joint head angle does not matter.
4) Prior to adjustment, pull outward on side rail in order for system to settle.
5) Ensure top jam nut engages at least two full threads.
6) Do not over tighten top jam nut (there is no need).

Reattach seat pan and cushion.
ADJUSTING LATCH ENGAGEMENT

Begin with side rail lowered. Then rotate side rail into upright position until latch is fully engaged, paying particular attention to how rail engages.

If rail requires too much, or too little, force to engage, continue with adjustment instructions below. Otherwise, skip to next section.

Rotate side rail into lowered position until rail is firmly held by catch.

Loosen rubber bumper tightening nut with 7/16” wrench.
If resistance is too low, rotate bumper as shown above.

If resistance is too great, rotate bumper as shown above.

Once adjusted, rotate side rail into upright position until latch is fully engaged. Repeat steps above if resistance is still in need of adjustment.

When resistance is acceptable, tighten rubber bumper nut to lock rubber bumper into place.
CAUTIONARY USAGE INSTRUCTIONS

IF THIS UNIT IS EXPOSED TO BODILY SUBSTANCES, CLEAN THOROUGHLY TO PREVENT THE SPREAD OF DISEASES.

ENSURE FINGERS ARE NOT PINCHED DURING SIDE RAIL OPERATION.

PREVENTIVE MAINTENANCE

To ensure proper operation, this unit should be maintained as described below.

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>FREQUENCY</th>
<th>PROCEDURE</th>
<th>TOOL</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adjustable arm rail hinge</td>
<td>Every three months</td>
<td>• Check for signs of fatigue or wear.</td>
<td>-</td>
<td>If rail cannot be adjusted as much as necessary, contact TMM Service for assistance.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check arm rail angle, adjust if necessary.</td>
<td>Refer to this manual</td>
<td></td>
</tr>
<tr>
<td>Ball joint tightening nuts</td>
<td>Every three months</td>
<td>• Check nuts for looseness, tighten if necessary.</td>
<td>Refer to this manual</td>
<td></td>
</tr>
<tr>
<td>Rubber bumper</td>
<td>Every three months</td>
<td>• Check for side rail engagement resistance. If loose, tighten.</td>
<td>Refer to this manual</td>
<td>If resistance cannot be regained through adjustment, contact TMM Service for assistance.</td>
</tr>
</tbody>
</table>
CLEANING INSTRUCTIONS

*CAUTION*  STEAM AND/OR PRESSURE CLEANING CHAIR WILL VOID WARRANTY

| COMPONENT                     | FREQUENCY                                           | PROCEDURE                                           | CLEANING AGENT *                                                                 | COMMENT                                    |
|-------------------------------|-----------------------------------------------------|-----------------------------------------------------|***********************************************************************************|***********************************************|
| All Rails and Painted Metal   | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Check for chipped paint/chrome              |
| Base Cover                    | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Check for peeling or missing labels        |
| Actuators and Battery Pack    | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Clean exterior surfaces only with minimal water |
| Pendants                      | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Clean exterior surfaces only with minimal water |
| All Other Surfaces            | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Check for damage                           |
| TransMotion Medical Accessories | As required/in accordance with facility policies    | Wipe with damp cloth and allow to air dry           | Facility approved detergents, disinfectants & water                              | Check for damage                           |
| 3rd Party Accessories         | As required/in accordance with facility policies    | Consult manual provided by accessory manufacturer.  |                                                                                 |***********************************************|

* Use of Facility approved detergents and disinfectants must comply with the instructions provided by the manufacturer(s) of those products.
Upholstery Care & Cleaning Instructions

Proper care is essential in ensuring the durability and reliability of TransMotion Medical upholstery. In general, all products should be:

1. Cleaned
2. Disinfected (in accordance with facility policy)
3. Rinsed
4. Allowed to air dry

It is important to note that the terms “disinfecting” and “cleaning” should not be used interchangeably. Disinfectants alone will not provide adequate cleaning since they do not have the appropriate properties to cut grease or oil and remove grime, hair or skin oils. The appearance, feel and performance of your upholstery may diminish if not cleaned properly.

Cleaning:

Remove hair, grime and body oils. Your upholstery should be cleaned on a regular basis with a damp cloth soaked in a mild soap and water solution. Avoid harsh detergents or chemicals that could damage the finish of your product. If disinfecting with manufacturer approved chemicals or bleach, the upholstery MUST be wiped off using clean water on a damp cloth and allowed to air-dry as a final step. Failure to rinse upholstery with clean water can result in a build-up of residues that, over time, may lead to drying, cracking or other undesirable changes to appearance, feel and performance.

Retain all instructional tags for future use.

Contact the manufacturer of the fabric used in your upholstery for a current list of approved disinfectants. TransMotion Medical Customer Care can assist with identifying which upholstery was used with your Stretcher-Chair.

For customer supplied and non-standard materials, please refer to the individual manufacturer's cleaning instructions.