### Assembly Procedure

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### Caution:
- The user cannot perform the complete rear folding action and assistance is required. The device must be guided through the entire folding action and not permitted to drop suddenly on the forward or rearward stops. As the side tube passes down the side of the wheelchair during folding, care must be taken that the user keeps their arm or hand clear.
- In the forward position the mount is unrestrained; if the wheelchair is driven with the mount in this position in the event of a collision the mount can travel back towards the user.
- When large devices are attached or a longer side tube is used the device may protrude behind the wheelchair when folded.
- **Not suitable for Tilting Seat Systems.**
Identify the Parts
Use the parts list and diagram below to identify each part and ensure all parts are included.

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Part Name</th>
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<tr>
<td>STR16</td>
<td>Horizontal Tube (Straight 16&quot; Tube)</td>
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<tr>
<td>STR 22</td>
<td>Vertical Tube (Straight 22&quot; Tube)</td>
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<td>RFA+RTHTM</td>
<td>Rear Folding Adaptor w/ Tube Mount</td>
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<tr>
<td>ELRH+RTHTM</td>
<td>Elbow Rotate Head w/ Tube Mount</td>
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<tr>
<td>UFCxxxxIP</td>
<td>Frame Clamp (*may vary based on wheelchair, look for part with IP or IPA engraving)</td>
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<tr>
<td>O3L</td>
<td>Offset Link</td>
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<tr>
<td>TUSB</td>
<td>Total Quick Release Base</td>
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<td>DMSTools</td>
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The Frame Clamp Assembly
This step requires 2 components:
- Frame Clamp (UFCxxxxIP)
- O3L

The Frame Clamp varies depending on the type of wheelchair, it may not be exactly as shown, “Frame Clamp” most commonly refers to UFCxxxxIP, but there are others all of which will include IP or IPA in their part code. These instructions are specific to mounts with a UFCxxxxIP; other types of Frame Clamps will include separate assembly instructions. Identify the Frame Clamp and the O3L.

Remove the cap from the Frame Clamp (above left). Remove the Swivel Clamp from the O3L (above right).
Align the grooves on the side of the O3L with the letters “IP” engraved with the grooves on the Frame Clamp (photo below left). Put the non-threaded half of the swivel clamp (with the bolts pushed through) into the O3L. Put the threaded half into the Frame Clamp body and begin tightening the bolts, alternating between the two.
Do not fully tighten the bolts. The O3L and the UFCxxxxIP should be able to swivel freely. See photos top of next page.
Prepare the RFA+RTHTM
This step requires 1 component:
  • RFA+RTHTM
Remove the nut from the RFA+RTHTM Assembly using a 9/16” (not supplied) wrench. Unscrew the Cover using an Allen key in the hole on the side of the cap. Remove the Piece of paper and the Stop Pins from the assembly, set aside the Stop Pins, Cover and Nut for later.

Attach the RFA+RTHTM to the Frame Clamp Assembly
This step requires 2 components:
  • RFA+RTHTM
  • Frame Clamp Assembly
Align the grooves on the side of the O3L with the letters “OP” engraved with the grooves on the RFA+RTHTM. Put the non-threaded half of the swivel clamp (with the bolts pushed through) into the hole on the RFA+RTHTM. Put the threaded half into the Frame Clamp Assembly and begin tightening the bolts, alternating between the two. Do not fully tighten the bolts. The parts should be able to swivel freely. See photos below.
Attach the Frame Clamp Assembly to Wheelchair

This step requires 2 components:
- Wheelchair
- Frame Clamp Assembly

Find the location on the wheelchair to attach the Frame Clamp Assembly (this should have been identified prior to ordering); most often the location will be either near the front caster wheel or on the seat frame. Make sure the location is part of the wheelchair frame, not a movable attachment like the footrest.

At the selected location; fit the Frame Clamp Assembly around the tube. Replace the bolts and gently tighten them, do NOT fully tighten them at this time. The Frame Clamp “cap” should face towards the inside of the wheelchair.

Attach the Tubes to the ELRH

This step requires 3 components:
- Straight 16” Tube
- Straight 22” Tube
- ELRH+RTHTM

Attach the straight tubes into the ELRH (either tube into either hole). Align the Pinch clamp and insert the tube. Tighten the Pinch Clamp. Install BOTH tubes into the ELRH. This is the “Tube Assembly”. The tubes should make a right angle (90 degrees), if not manipulate the assembly until they are at a right angle.

Install the Tube Assembly onto the Frame Clamp Assembly

This step requires 2 components:
- Tube Assembly
- Frame Clamp Assembly (Attached to Chair)

The Frame Clamp Assembly should still be loose, bring the parts into the desired orientation and snug the swivel clamp bolts.

Install the Tube Assembly into the Frame Clamp Assembly; this is done by installing the 22” Long tube portion into the hole in the RFA+RTHTM portion of the Frame Clamp Assembly. Gently tighten the Pinch Clamp to hold the tube in place. The horizontal tube should be oriented in the “in-use” position.
**Align the Vertical Tube (Left/Right)**

Ensure the bolts holding the Frame Clamp Assembly are still loose enough to allow adjustment. Align the vertical tube by moving it left or right until it is straight as shown in the photo (right). Tighten the frame clamp alternating between the two bolts. When completely tight there should be a gap of 1/32” to 1/64” between the Cap & Body of the Frame Clamp on round tube. A larger gap indicates the Frame Clamp may be too small for the tube. If there is no gap and the inner piece does not clamp the wheelchair tube firmly; up to 4 layers of aluminum foil may be wrapped around the wheelchair tube, however if more layers are needed it indicates the Frame Clamp is too large. Contact Daedalus Technologies for information on adapter sleeves.

**Set the In-Use and Folded Positions**

The In-Use and Folded positions are adjusted by varying the location of the Rear Folding Adapter (RFA) and the location of two Stop Pins in the RFA. There are two Stop Pins; one pin stops the forward rotation at the In-Use position and the other pin stops the rearward rotation at the folded position.

**Increments of Adjustment**

**Coarse Adjustment**

The Stop Pins can be placed in any of 12 holes in the Rear Folding Adapter (RFA). Changing the Stop Pin location by one hole in the RFA will result in approximately 5 1/2” shift in the location of the Horizontal Tube when using the standard 22” vertical tube.

**Fine Adjustment**

The ends of the Stop Pins are a slightly oval shape where part of the round shaft of the pin has been machined back. Inside the Rotating a Stop Pin 180 degrees within its hole results in about a 2” shift in the location of the horizontal tube. Also, the final position of the Horizontal Tube can be adjusted by less than 2 inches by slightly rotating the entire Rear Folding Adapter.

**Installing the Forward – In-Use – Stop Pin**

Rotate the Vertical Tube forward until the Horizontal Tube is in the In-Use position. In the back of the Rear Folding Adapter identify the Stop Pin hole that is in-line with the forward bolt hole in the Tube Mount (RTHTM) holding the Vertical Tube on the Rear Folding Adapter.
Slightly rotate the Vertical Tube backwards and insert one Stop Pin in this hole. Rotate the tube forward until the pin stops it. If the Horizontal Tube requires fine adjustment, raise it slightly and rotate the Forward Stop Pin 180° in its hole.

Proceed with installing the Rearward Stop Pin, even if the Horizontal Tube is not exactly at the required location.

**Installing the Rearward - Folded - Stop Pin**

Rotate the Vertical Tube rearward until the Horizontal Tube is in the folded position. It will probably be necessary to manipulate the ELRH+RTHTM so that the horizontal tube points up in the air in order to fold the vertical tube backwards. In the back of the Rear Folding Adapter identify the Stop Pin hole that is in-line with the rear bolt hole in the Tube Mount (RTHTM) holding the Vertical Tube on the Rear Folding Adapter.

With the Vertical Tube held at the desired forward angle, the Front Stop Pin is inserted into the hole in line with the Forward bolt hole on the RTHTM.

The Front and Rear Stop Pins must be align to seat in the groove in the Screw-on Cover.

Rotate the Vertical Tube to the desired folded position and locate the Stop Pin hole in line with the rear bolt hole on the RTHTM. Insert the Rear Stop Pin in this hole.
Slightly rotate the Vertical Tube forwards and insert one Stop Pin in this hole. Rotate the tube back again until the pin stops it. If the Horizontal Tube requires fine adjustment, raise it slightly and rotate the Forward Stop Pin 180° in its hole. A small amount of Vaseline may be used to hold the Stop Pins in place during the Final Adjustment.

Caution:
The Stop Pins must be installed and the Screw-on Cover and Locking Nut must be replaced before any device is attached to the mount.

**Final Position Adjustment**

When the In-Use position of the Horizontal Tube needs further adjustment to obtain the best position for the mounted device this can be achieved by slightly rotating the Rear Folding Adapter around the Swivel Clamp that joins it to the Offset Link or Frame Clamp. This method of adjusting the position of the Horizontal Tube will change both the In-Use and Folded positions. Rotating the Rear Folding Adapter to raise the In-Use position of the Horizontal Tube will lower the folded position and vice versa.

It is usually possible to rotate the Rear Folding Adapter and re-adjust the Stop Pins to place the mounted device very close to the in use position, while also maintaining a desirable folded position. It may take a number of rounds of adjustment to achieve this result.

When the mount is in its final position replace the Screw Cover and Locking Nut (see photo left).

**Checklist**

Before attaching a device to the mount, ensure that the following steps in the installation procedure have been completed:

- Bolts on the Frame Clamp Inner Piece are fully tight.
- Bolts on the Swivel Clamps fully tight (Tighten these bolts alternately to get the most effective grip).
- Pinch Clamps bolts tight.
- Screw-on Cover for Stop Pins replaced and screwed down firm with the heads of the Stop Pins in the groove on the inside face of the cover (not pinched by the edge of the cover).
- Locking Nut for Screw-on Cover replaced and screwed into moderate contact with cover. For some installations it may be necessary to remove the Rear Folding Adapter to replace the Screw-on Cover and Locking Nut.
Install the Total Quick Release Base – TUSB

Remove the foam plug retaining the Pinch Clamp in its hole in the TUSB and slide it onto the Horizontal Tube. The Pinch Clamp must be aligned in its hole so that it is even with the inside of the tube hole to allow the tube to slide through.

Quick Release Orientation

The Total Quick Release Base can be clamped at any location along the Horizontal Tube and may be rotated around the tube to place the mounted device at any angle. The normal orientation for the TUSB is with the Locking Pin positioned away from the user. Adapters and Holders that attach devices and computers onto the TUSB are assembled for this orientation.

Final Adjustments

Ensure that all of the fasteners are tight including; Frame Clamp, swivel clamps, and pinch clamp.