

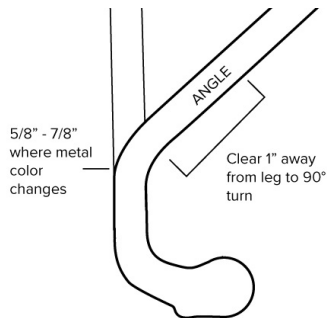
Instructions For Use

Bending Levers on **1017**, **1017-A38** and **1018** knee joint levers into a bail release system.



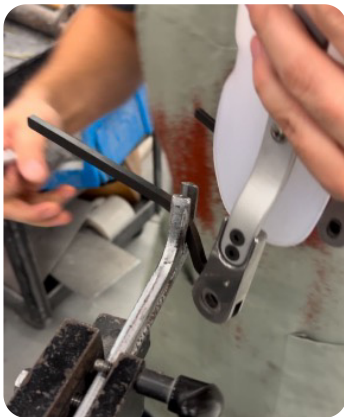
When beginning to bend levers assure the knee joint has been squared and levers are installed. Use a #8 bending iron to bend the levers.

Bending Levers to a Bail Release



On the levers you have to begin the bending about 5/8" – 7/8" (1.51.8cm) away from the curve that is already in the metal. If you look closely that the lever there is a spot where the color changes just a bit, you begin the bending just beyond that color change. (These tips on the levers are anodized to give them strength and durability but it makes the bending modules different from that point forward.) The initial bend should be a gradual arch and put the lever at roughly horizontal to the ground position.

In the drawing is a starting point and an approximate position of angulation that the initial bend will come to as you bend in the sagittal plane.



Begin Arch bending until the two levers meet one another.

Assure when the bail is pulled all the way up there is minimal clearance from the shell but allowance for any covering.



Important that as the trigger is bent toward midline of the leg maintain square position of lever inside of the joint clevis.



If they are long enough to overlap (at least 1") then the technicians will place ~45 degree off setting metal grinds to the two levers or angle grinds and then silver solder them together.

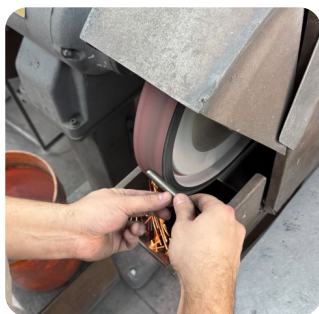
If not, then they use a metal tube that they clamp on to the ends of the levers and solder on. Once this is cleaned up and made smooth cover the bail with rubber tubing or leather.



In cases where the ML is too large for the levers to overlap a tube can be soldered on to connect the two levers. Pre-Cut metal tubing is sold in 1' increments, and can be ordered using Becker Part # **S-RD7/16**.



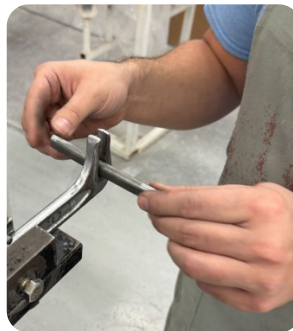
Cut to length.



Once cut to length the end of the tube is beveled in shape.



Then hammer the tube flat on both sides with flat hammer.



The tube should then be able to slide through your #8 bending iron easily.



Using the pointed end of your flaring hammer hit each end of your tube to begin the curve shape on the side that would face towards the patient's leg.



Assess alignment and bending to match position of levers.



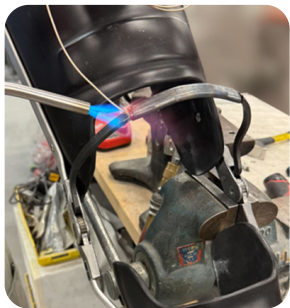
Using your bending irons match the shape of your tube to the levers. The aim is to fit ~1" (2.5cm) of the bail inside of the tube.



Remove the black oxide from the portion of the lever that will fit inside the tube +1/4" (.6cm) beyond the tube. A slight angle can help to insert the lever into the tube more easily.



Reattach the levers on KAFO prior to soldiering. This will avoid having to re-square the bail hinges as significantly post soldiering.



Rub the inside of tube and bars with flux in areas where the silver solder will be applied.

Heat bars and soldier tube to triggers with silver soldier. Make sure that soldier covers the entirety of the connection points between the tube and the levers.



Use a fiber wheel to clean off any additional soldier. Inspect to make sure the area is void of airholes or spacings.



Cover the finished bail with Rubber tubing or leather as desired, then connect back into the joint with the springs oriented with the long arm on the proximal side.

Rubber tubing is sold in 1' increments, and can be ordered using Becker Part # **R-TB-1/2**.

For questions on fabrication or further technical assistance please e-mail mail@beckerorthopedic.net or call **(800) 521-2192 / (248) 588-7480**



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