TCI Liberator Series Support Straps are Available in Coyote Tan, Black and Ranger Green Colors
Overview: The popularity of the Ops-Core FAST helmet, and other high cut helmets, such as the TC2002, is increasing and so is the interest in mounting Liberator II or Liberator III BTH Suspension Headsets to the helmet. We believe there are critical operational points that should be considered. In doing so, we believe you will agree TCI's methodology for accomplishing helmet mounting is superior.

Use of Helmet Rails: The helmet rails are quite versatile and very useful for mounting different types of illumination devices, cameras and other mission gear; however, permanently mounting a communication headset to the rails, in our opinion, creates problems and consumes valuable rail space.

Rail Mounting Fasteners: It seems simple to just attach molded mounting hardware to the rails to attach a headset to the helmet. The problem is that the molded mounts increase the width of helmet and are subject to breakage by virtue of the fact they protrude outside the organic width of the helmet. What happens if one of the mounts is broke? Are they field-repairable? Can the headset be used without a functional mount or is the ear cup simply going to dangle loosely? Will you lose hearing protection capability? Our solution solves these problems.

Use of Headset without Helmet: There are certainly situations where you might use a headset without having to wear a helmet or vice versa. We believe giving the customer the choices and flexibility is paramount. Our solution allows secure integration of the headset with the helmet and the capability to use the headset without the helmet. You can decide and quickly attach or detach the headset as you choose. To attach, simply follow the instructions below. To use without a helmet simply attach the TCI Headset Suspension systems webbing together using the attached Velcro and use in a similar fashion as the original crown webbing supplied with the headset.

Conversion Solutions: Since TCI’s solution is a conversion kit, it is beneficial to customers who might already have a Liberator II or III headset as well as customers ordering them. It utilizes existing Velcro® loop fastening material customarily supplied with FAST helmets so no modification to the headset or helmet is required.

Protection Ratings: Since TCI’s solution does not require modification of the helmet or headset, ballistic and hearing protection remains unchanged no matter the user’s physical characteristics or the equipment size. This is simply not guaranteed with attachment methods that use the helmet for support since the fitting of a proper helmet shell size for each user is limited by the small number of helmet sizes available.

Integrating your Liberator II or III BTH series headset with your Ops-Core or other high cut helmet can be accomplished is just a couple minutes. Please keep in mind that the following instructions are for high cut helmets which have Velcro® already attached to the outer shell. Velcro® loop material will need to be sourced locally if your helmet does not already have it.

We hope the following instructions are helpful to you.
TCI LIBERATOR SERIES HELMET ATTACHMENT SYSTEM
SET-UP INSTRUCTIONS

GETTING STARTED

Remove the mesh support strap that attaches to the D-rings of the BTH suspension band and set it aside. Simply release the Velcro® at each end and slide the ends through each D-ring. Do not throw it away because you may want to reattach it to your headset in the future. Once the support strap has been removed, slide the D-rings from on top of the arches above each earcup rearward to the position shown below to get them out of the way.

An optional step is to also remove the cover for the backband of the headset. This reduces the size of the backband when later integrating the helmet and headset.
Attach support strap to right Earcup: Orient the right earcup and one of the support straps upward (as shown below). Then slide the lower portion of the earcup through the elastic cord so the label on the support strap is visible from the outside. Once the elastic cord is positioned below the support mounts on the front and back of the earcup you are ready to proceed to the next step.

Then reach over the top of the right earcup and locate the elastic cord on the inside of the earcup and pull it over the top of the earcup as shown below using your fingers so a loop is created around support mounts.
Now align the elastic cord as shown below. It is important that the lower portion of the elastic cord remains below the support mounts as highlighted by the arrow below.
TCI LIBERATOR SERIES HELMET ATTACHMENT SYSTEM
SET-UP INSTRUCTIONS

Now separate the flap of the support strap and slide it under the upper portion of the elastic cord. Then secure with the support strap with the Velcro®.

Next, adjust the position of the support strap so it is centered on the earcup.
Attach support strap to left Earcup: In this case, the headset has the boom microphone attached to the left earcup.

Position the support strap with the back side facing you and then put the boom microphone and headset cable inside of the elastic loop, as shown below.

Then position the support strap so it is centered on the earcup and the elastic cord is aligned with the bottom of the support mounts as shown below.
TCI LIBERATOR SERIES HELMET ATTACHMENT SYSTEM
SET-UP INSTRUCTIONS

Once again, reach over the top of the left earcup and grip the elastic loop with your fingers. Then pull the elastic loop over the top of the earcup.

Now align the elastic cord as shown below. It is important that the lower portion of the elastic cord remains below the support mounts as highlighted by the arrow below.

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Now separate the flap of the support strap and slide it under the upper portion of the elastic cord. Then secure with the support strap with the Velcro®.

Now fasten the tab to the back of the support strap using Velcro® and center the strap on the earcup.
Once both support straps have been attached, your set-up should look like this and we can proceed to helmet integration steps and recommendations.

Orient the helmet so it is positioned as shown below. Then place your headset inside the helmet so the earcups align approximately with the way the headset is normally worn. Then position the backband so it inserted between the back rim of the helmet and the helmet suspension. We have found it best to use the Occ-Dial of the helmet to retain the position of the backband. This also provides a pivot point for the backband should you wish to release the straps from the helmet during periods of rest.
Now it’s time to attach the left support strap to the helmet using the Velcro® loop material on the helmet to approximate the fit of the headset with the helmet. You can fine tune the fit a little later.

Now attach the right support strap to the helmet using the Velcro® loop material on the helmet to approximate the fit of the headset with the helmet. You can also fine tune the fit a little later.
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The following photo depicts the way your helmet harness and chinstrap should be aligned. Take note that the boom microphone is positioned on the outside of the left harness webbing as opposed to the inside of it.

The design of the support strap system accommodates equipment you might have attached to the helmet rails so no loss of rail functionality is lost when using our support straps.
Customers also like the ability to easily separate the headset and helmet so either can be used independently. TCI’s support strap system enables the user to quickly and easily use the support straps as a conventional headset support strap when not using a helmet. The nice thing is the removal of the headset from the helmet only take a few seconds, giving you alternative options, unlike systems that requires hardware to attach the headset to helmet rails.

Resting Position: The support straps can be released from the helmet to allow the headset to be repositioned into what we refer to as resting position. Resting position allows the user to monitor radio traffic in the headset without having to have the earcups over the ears. This position does not provide hearing protection so we suggest it be used when hearing protection is not needed.
Please feel free to contact TCI for assistance and guidance in fine tuning and adjusting your setup. We have found the above configuration works well for many users but you may find subtle changes may work best for you.

Tactical Command Industries, Inc.
Tel. (925) 219-1097

It is critical that pay careful attention to maintaining a proper seal of the earcups or you will lose the protective benefits intended for headsets of this type and hearing loss can result.

<table>
<thead>
<tr>
<th>PART NUMBER:</th>
<th>DESCRIPTION: (Sold Individually – TWO Required Per Headset)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCI-LIB-SS-BK</td>
<td>Liberator II Support Strap (Black) - each</td>
</tr>
<tr>
<td>TCI-LIB-SS-CO</td>
<td>Liberator II Support Strap (Coyote Tan) - each</td>
</tr>
<tr>
<td>TCI-LIB-SS-RG</td>
<td>Liberator II Support Strap (Ranger Green) - each</td>
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