

# ACH Accessory Rail Connector (ACH-ARC)

The ACH Accessory Rail Connector (ACH-ARC) is an accessory mounting system for ACH, TC 2000, and MICH Series helmets from MSA. The ACH-ARC is designed for use on MSA ACH medium, large, and extra large size helmets.

## ⚠ CAUTION

**Mounting excessive weight to the ACH-ARC can result in neck or other personal injury.**



### Attaching a Helmet Rail to an ACH Helmet

**Note:** The ACH-ARC can be mounted with or without a helmet cover. If the ACH-ARC is mounted to a helmet without a cover, begin instructions with Step 4.

1. Properly attach the helmet cover.
2. Mark the location of the left and right front chinstrap retention bolts.



3. Use scissors or a sharp knife to cut 1/2" access slits on the marks.



**Note:** To avoid tangling or twisting of the chinstrap, install the ACH-ARC to one side of the helmet at a time.

4. Remove the pad suspension system pads to expose the chinstrap retention screws.



5. Use a large screwdriver and pliers to unscrew the two (1/2 inch long) front chinstrap retention screws.



6. Remove the front chinstrap retention screws.

**Note:** Chinstrap retention screws are not long enough for the accessory rail attachment. Use the four ACH-ARC screws included with this kit (7/8 inch long). Retain the four ACH screws (1/2 inch long) for use if and when the chinstrap without ACH-ARC is reinstalled.

7. Use a large screwdriver and pliers to unscrew and remove the two rear chinstrap retention screws through the eyewear retention strap slits.



For More Information, call 1-800-MSA-2222 or Visit Our Website at [www.MSAnet.com](http://www.MSAnet.com)



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**Note:** Discard the eyewear retention straps or retain them for reinstallation without the ACH-ARC.

- Place the accessory rail over the cover and pass the ACH-ARC screws through the accessory rail, cover, and helmet.

**Note:** Do not hammer or pound the screws through the helmet shell. If resistance is encountered use a screwdriver to turn the screws until the threads are exposed inside the helmet shell.

- Place a chinstrap retention nut on the p-clamp tab and reinstall the p-clamps with the boss toward the shell.



**Note:** Ensure the chinstrap is not twisted or tangled before reinstalling the p-clamps.

- Use a screwdriver and pliers to tighten the ACH-ARC screws. Do not overtighten.

**Note:** Repeat steps 5 through 10 to install the ACH-ARC on the other side of the helmet.

- Replace the suspension pads according to the instructions in the Operator's Manual for the Advanced Combat Helmet (P/N 10063328).

## Installing Eyewear (Goggles)

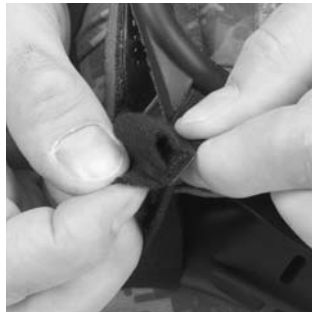
- Unweave the elastic goggle strap from the left and right slide adjusters. Do not remove the adjusters.



- Pass the strap ends through the slots on the goggles.



- Reweave the straps through the adjusters.



- Don the helmet and adjust the goggle straps for a snug, comfortable fit.

## Mounting the Picatinny Adapter to the Helmet Rail

- Slide the Picatinny Adapter into the helmet rail dovetail slot.
- Ensure the base of the Picatinny Adapter is fully inserted and does not extend past the end of the dovetail slot.
- Ensure the locking tab engages one of the helmet rail slots.
- For additional stability tighten the set screw (do not overtighten).
- Mount the accessory to the Picatinny Adapter.

## Painting the Rails and Adapters

- Remove the rails from the helmet and the adapters from the rails.
- Clean the rails of all soil and debris using a medium bristle brush, do not use a steel or metal bristle brush as this may damage the rail surface.
- Prepare the surface to be painted by cleaning with water, damp sponge or washcloth. A mild detergent may be used.

**Note:** Do not use solvents to clean the rails or adapters.

- Mask off the rail channels and all points of contact for the adapters. Do not paint rail and adapter contact surfaces.

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5. Spray paint with commercially available products (rustoleum, valspar, or other multi-purpose commercially available paint) no primer necessary, but any commercial primer can be used.

**Note:** MSA recommends avoiding glossy or semi-gloss finishes.

6. Spray several thin coats as paint manufacturer suggests.
7. Allow the paint to dry and ensure the adapters slide through rails. If any paint entered the dovetail slot, use an appropriate scraping tool to remove the paint from the channel making sure it is free of paint. Do not gouge or damage the dovetail slot.

## Inspection

1. Inspect the helmet rail and all components for damage before and after each use. Replace if damaged.
2. Inspect the Picatinny Adapter and all accessories for full engagement with the helmet rail to prevent loss of accessories.

In order to ensure full thread engagement, some helmet models require the mounting nuts, p-clamp, and buckle assembly to be retrofitted on the helmet. These items are included in the following kits:

P/N 10071445 Includes foliage green hardware  
P/N 10071444 Includes black hardware

Models requiring retrofit include:

- Commercial/Forcefield ACH
- TC 2000 Series

## MSA Warranty

**1. Express Warranty** - MSA warrants that the product furnished under this order is free from mechanical defects or faulty workmanship for a period of one (1) year from first use or eighteen (18) months from date of shipment, whichever occurs first, provided it is maintained and used in accordance with MSA's instructions and/or recommendations. Replacement parts are warranted for ninety (90) days from the date of sale of the replacement part. MSA shall be released from all obligations under this warranty in the event repairs or modifications are made by persons other than its own or authorized service personnel or if the warranty claim results from misuse of the product. No agent, employee or representative of MSA may bind MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract. MSA makes no warranty concerning components or accessories not manufactured by MSA, but will pass on to the Purchaser all warranties of manufacturers of such components. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AND IS STRICTLY LIMITED TO THE TERMS HEREOF: MSA SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

**2. Exclusive Remedy** - It is expressly agreed that the Purchaser's sole and exclusive remedy for breach of the above warranty, for any tortious conduct of MSA, or for any other cause of action, shall be the repair and/or replacement, at MSA's option, of any equipment or parts thereof, that after examination by MSA are proven to be defective. Replacement equipment and/or parts will be provided at no cost to the purchaser, F.O.B. MSA's plant. Failure of MSA to successfully repair any non-conforming product shall not cause the remedy established hereby to fail of its essential purpose.

**3. Exclusion of Consequential Damages** - Purchaser specifically understands and agrees that under no circumstances will MSA be liable to Purchaser for economic, special, incidental or consequential damages or losses of any kind whatsoever, including but not limited to, loss of anticipated profits and any other loss caused by reason of the nonoperation of the goods. This exclusion is applicable to claims for breach of warranty, tortious conduct or any other cause of action against MSA.

