

INSTALLATION OF MODULAR HELMET KIT

1- NOTE THAT THERE ARE MANY HELMET STYLES, THIS INSTRUCTION USES THE SHOEI NEOTEC HELMET AS ITS BASE. WHILE MOST HELMETS MAY HAVE A SIMILAR DESIGN, THEIR SLIGHT DIFFERENCES MAY REQUIRE A DIFFERENT MOUNTING LAYOUT.

THE 14-5028 MOUNTING PLATE HAS BEEN DESIGNED WITH FOUR HOLES THAT ARE DRILLED AND TAPPED TO ACCEPT 6-32 SCREWS.

THE HELMET KIT CAN BE AFFIXED TO EITHER SIDE OF THE PLATE USING ANY OF THE HOLES TO PRODUCE A MOUNTING ARRANGEMENT THAT WORKS FOR YOU AND YOUR PARTICULAR HELMET.

2- THE MICROPHONE ELEMENT HAS A SIDE THAT IS LABELED "TALK". THIS SIDE MUST BE FACING YOUR MOUTH. THE ELEMENT MUST BE CENTERED AT A DISTANCE OF 1/4 INCH FROM THE MOUTH - A.K.A. "KISSING DISTANCE"

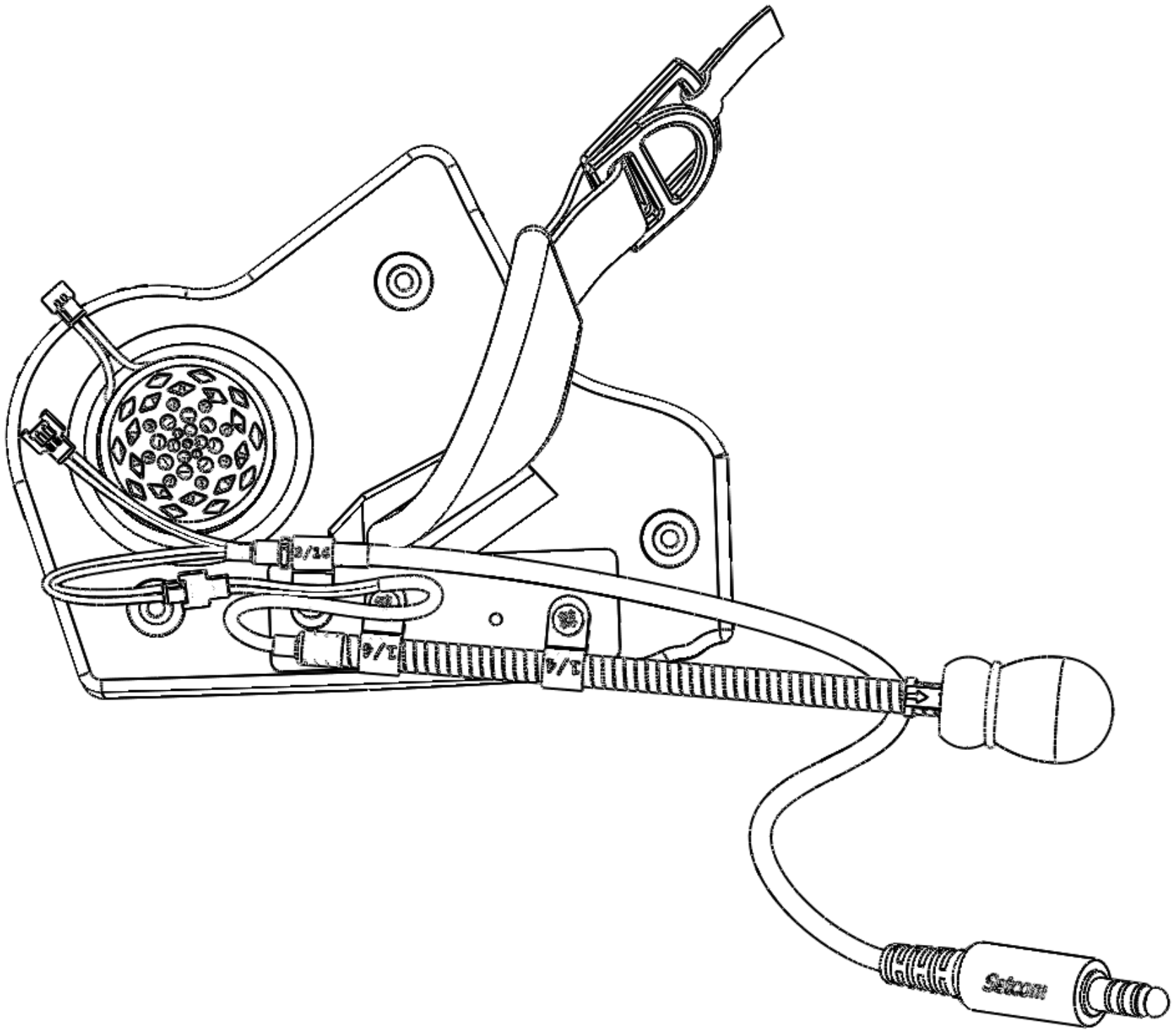
3- MOUNT THE HELMET KIT TO THE PLATE AND DRY FIT THE MOUNTING TO THE HELMET TO THOROUGHLY VERIFY FIT AND FUNCTION PRIOR TO APPLYING THE VHB MOUNTING TAPE AS EXCESSIVE REPOSITIONING OF THE ADHESIVE TAPE CAN ALLOW IT TO PICK UP RESIDUAL DUST, DIRT, GRIME, AND IMPAIR ITS BOND STRENGTH.

4- PRIOR TO APPLYING THE VHB MOUNTING TAPE MAKE SURE YOUR HANDS ARE FREE OF DIRT AND OIL. DO NOT TOUCH THE ADHESIVE FACE OF VHB TAPE.

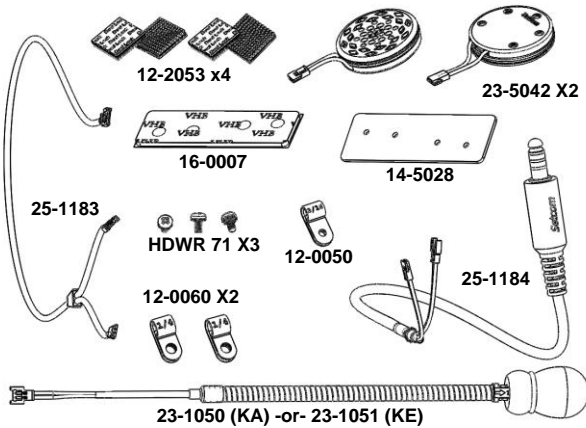
5- USING A CLEAN & LINT FREE WIPE, CLEAN THE TWO SURFACES TO BE BONDED WITH A 50:50 MIXTURE OF ISOPROPYL ALCOHOL (IPA) AND WATER. 70% IPA CAN ALSO BE USED. ALLOW THE CLEANED SURFACES TO AIR DRY.

6- ONCE THE ADHESIVE BACKED ASSEMBLY IS PLACED APPLY PRESSURE VIA A SPRING CLAMP OR USE A WEIGHT TO AID BOND STRENGTH.

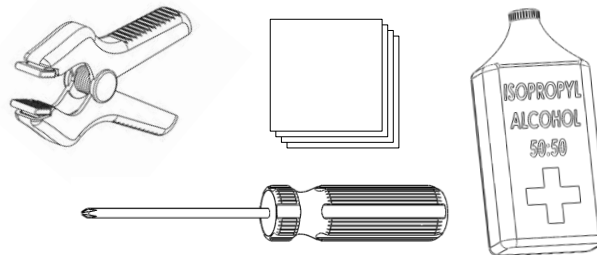
AT 78°F / 26°C – AN UNDISTURBED SET TIME OF 24 HOURS WILL YIELD 90% OF THE TOTAL BOND STRENGTH AND 72 HOURS FOR FULL BOND POTENTIAL.



The Kx-24IM is comprised of these parts:



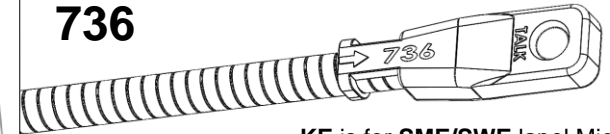
Installing your Setcom Helmet Kit you will need:



- Large spring loaded clamp or a means to weigh down the installation during the (minimum of 24hr) bonding process
- 50/50 Isopropyl Alcohol (Minimum)
- A #1 Phillips type screwdriver
- A couple of lint free wipes.

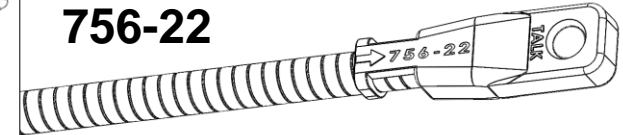
Verify that you have the correct model of boom mic for your application. View The "TALK" side of the element:

736



KE is for SME/SWE label Mic

756-22

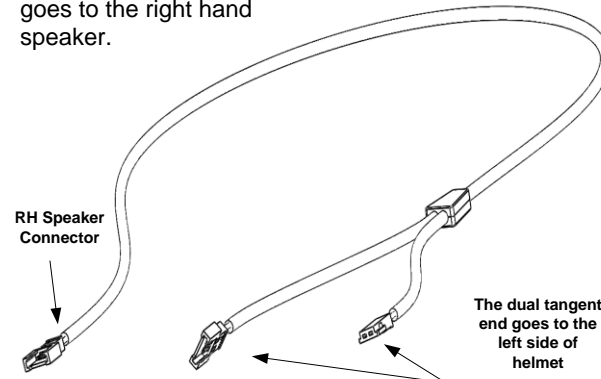


KA is for SMA/SWA label Mic and 63/73 Series Cable Kits

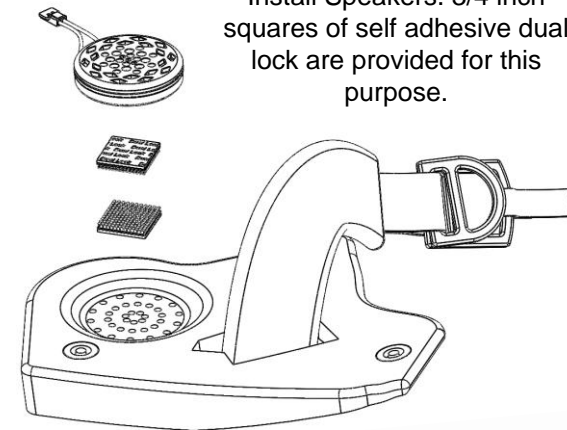


Refer to the User Manual for your Helmet. Remove both cheek pads and any ear pads

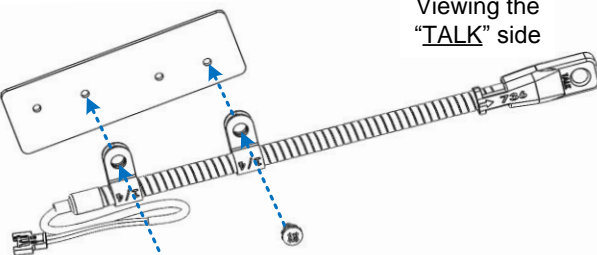
Route the modular speaker cable behind the center pad or bonnet. The long tangent goes to the right hand speaker.



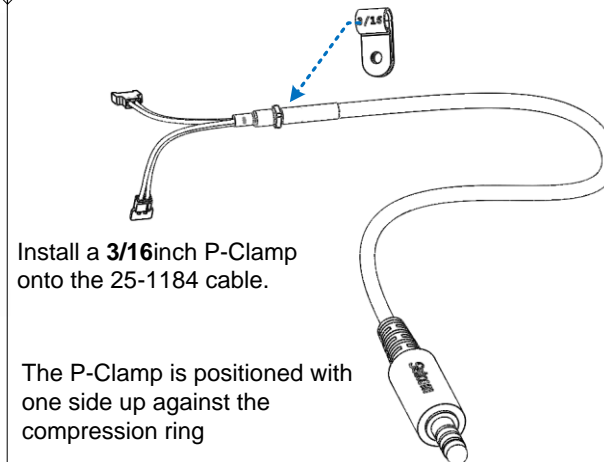
Install Speakers. 3/4 inch squares of self adhesive dual lock are provided for this purpose.



Viewing the "TALK" side



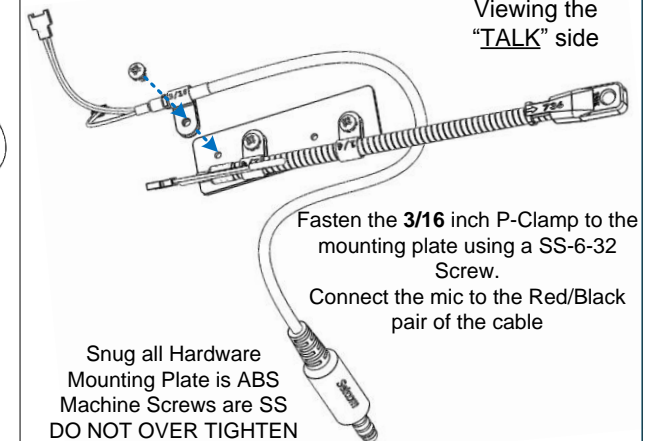
Using two 1/4 inch P-Clamps and two SS-6-32 Screws. Position the clamps onto the Boom Mic so that once installed the side of the element that says "TALK" is positioned within 1/4 inch of the Lips.



Install a 3/16inch P-Clamp onto the 25-1184 cable.

The P-Clamp is positioned with one side up against the compression ring

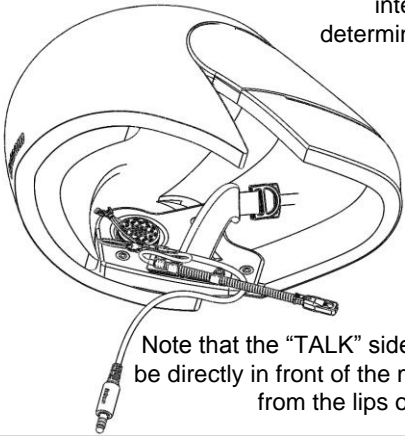
Viewing the "TALK" side



Fasten the 3/16 inch P-Clamp to the mounting plate using a SS-6-32 Screw. Connect the mic to the Red/Black pair of the cable

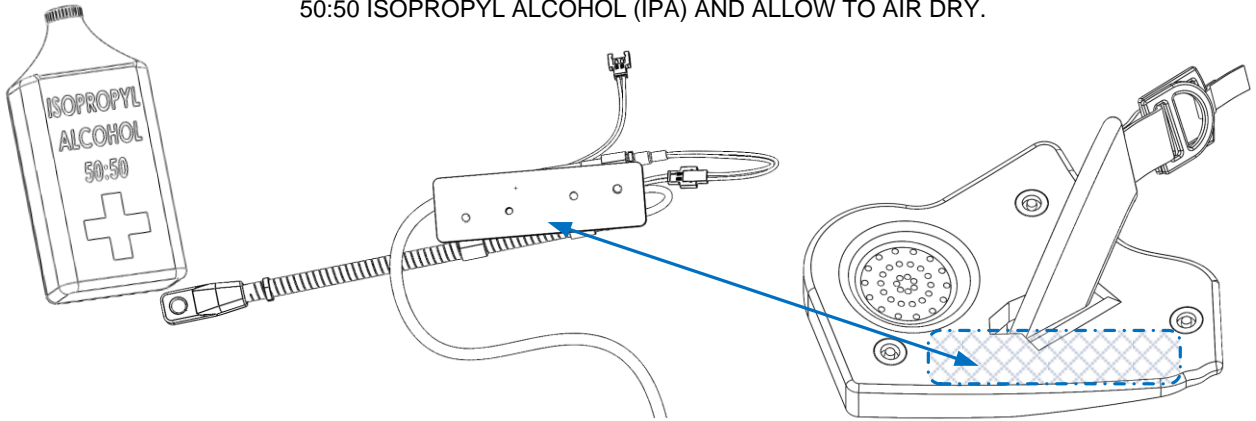
Snug all Hardware
 Mounting Plate is ABS
 Machine Screws are SS
 DO NOT OVER TIGHTEN

Dry fit the assembly to the interior of the helmet to determine proper placement for mic element

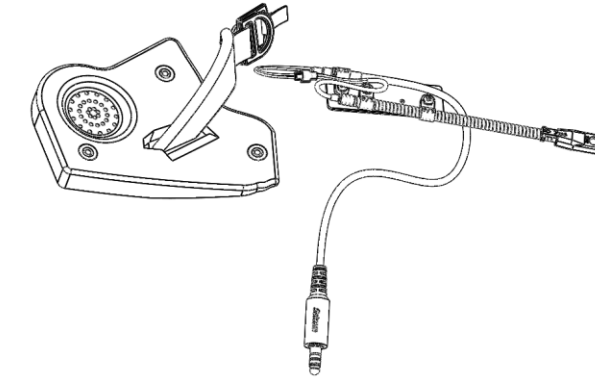
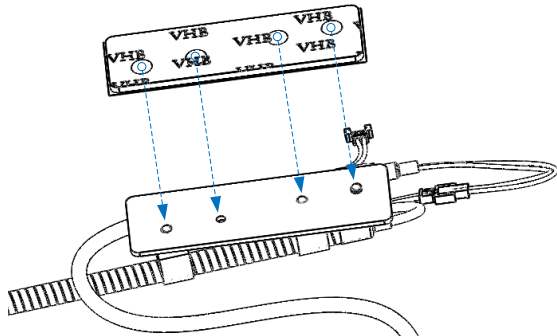


Note that the "TALK" side of the mic needs to be directly in front of the mouth with a distance from the lips of 1/4 inch

USING A CLEAN & LINT FREE WIPE, CLEAN THE TWO SURFACES TO BE BONDED USING 50:50 ISOPROPYL ALCOHOL (IPA) AND ALLOW TO AIR DRY.

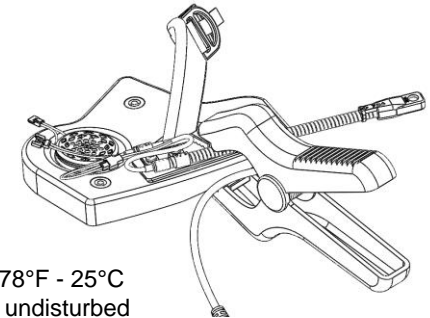


Peel the liner from the appropriate side of the VHB tape to align the Die Cut Holes with the Threaded Holes of the mounting plate. Firmly and evenly press the adhesive onto the plate.



Carefully Peel the secondary liner from the VHB tape and place the assembly in the predetermined position

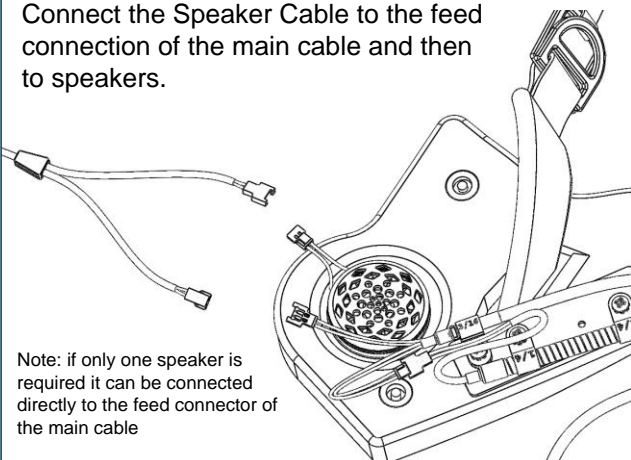
ONCE THE ADHESIVE IS PLACED APPLY PRESSURE VIA A SPRING CLAMP OR WEIGHT TO AID BOND STRENGTH.



Ambient 78°F - 25°C and mate undisturbed

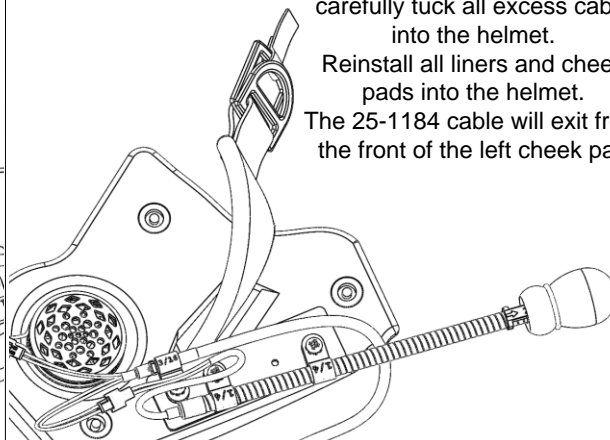
24 HOURS WILL YIELD 90% OF THE TOTAL BOND STRENGTH AND 72 HOURS FOR FULL BOND POTENTIAL.

Connect the Speaker Cable to the feed connection of the main cable and then to speakers.



Note: if only one speaker is required it can be connected directly to the feed connector of the main cable

Reinstall the Windscreen and carefully tuck all excess cable into the helmet. Reinstall all liners and cheek pads into the helmet. The 25-1184 cable will exit from the front of the left cheek pad



More information on Helmet Kits can be found at:

<http://setcomcorp.com/cr/helmetkits.php>

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