

**Figure 1: NMN6050B Safety Helmet Headset Kit**

## Introduction

The NMN6050B Safety Helmet Headset is an accessory item compatible with many Motorola two-way radio products. The headset fits up into and attaches to the inside of the safety helmet.

## Description


The microphone and earphone electrical components of the headset are located within a capsule assembly (see Figure 1). A flexible acoustical tube leads from the earphone to the soft plastic earpiece. Another acoustical tube provides the lip microphone facility. The headset cable is terminated in an industrial connector for use in many Motorola two-way radio applications.

## Assembly

Refer to Figure 1 and become familiar with the parts and terminology. The headset is provided with a plastic box that contains a set of six soft plastic earpiece tips of various sizes to fit the individual users ear. Assemble the headset per the following steps.

1. Open the plastic box of earpiece tips. Fit several earpieces to your ear and select

the one that feels best.

 CAUTION	Be careful <b>not</b> to insert the earpiece too far into the ear canal, the bulb end just up to the flange.
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2. Attach the earpiece tube (tube end) to the capsule assembly by sliding the tube over the metal connector that protrudes from the capsule corner.
3. Attach the black microphone acoustical tube to the remaining threaded connector which points straight away from the bottom of the capsule.

### Installation of Headset To Helmet



*Figure 2: Headset/Helmet Installation*

Refer to Figure 2 and install the headset to the helmet as outlined in the following steps.

1. To determine the mounting location for the headset at the helmet side, the capsule assembly should be clipped onto the hanging bracket and positioned along the approximate center line of the helmet so that the microphone tube is directly in front of the user's mouth.

NOTE:

Be sure the headset capsule, when attached, is low enough to clear the bottom

edge of the helmet.

2. Mark this bracket position for cementing a piece of precut Velcro tape (Motorola Part Number 1184865H01) to the helmet. Repeat the procedure for attaching another piece of tape to the other side of the helmet if desired.
3. Roughen the inner surface of the helmet with emery cloth (supplied) along the approximate center line as marked previously.
4. Spread an even coat of the contact cement (supplied) on the helmet surface and on the tape (supplied) to be bonded. (Cover all edges of the tape with cement.)
5. Allow approximately 3 to 5 minutes for the cement to become 'tacky' and then attach the tape to the helmet.
6. Apply pressure to the tape by clamping or pressing (15 minutes minimum) and allow to cure for 24 hrs at room temperature before using.
7. The headset hanging bracket is factory equipped with similar tape. Attach the headset to the helmet. With tape on both sides, the headset can be switched from one side to the other.

### **Cable Routing**

Refer to Figure 2 and route the cable along the inside of the helmet and down the back side. Secure the cable to the back side of the helmet sweatband using the cable retainer clamp and hardware supplied.

### **Operation**

- **For HT 1000, JT 1000, MT 2000, MTS 2000, and MTX Series radios:**
  1. Connect the multiple-pin connector of the headset cable to the headset cable adapter connector.
  2. Connect the 3.5MM plug of the cable adapter to the accessory adapter BDN6676, by inserting the plug and screwing the plug base into the adapter clockwise until seated properly and finger tight.
  3. Connect the accessory adapter, BDN6676, to the radio.
  4. To transmit, press the push-to-talk (PTT) switch located on the accessory adapter, BDN6676.
  5. To receive, release the PTT switch and set the radio volume control to the desired level. Some radios have either an unsquelch button or volume set button that when pressed will provide either incoming noise or a tone useful for setting the volume control.
- **For SABER radios:**
  1. Connect the multiple-pin connector of the headset cable to the NTN5913 cable adapter.
  2. Connect the NTN5913 adapter cable to the Saber radio.
  3. To transmit, press the PTT switch on the NTN5913 adapter cable.
  4. To receive, release the PTT switch and set the radio volume control to the desired level.

**Maintenance**

If needed, the components of the headset are replaceable. Refer to the list of parts illustrated in Figure 1. To order replacement parts, or for warranty information, contact Motorola Americas Parts Division (APD) at 1-800-422-4210 or 1-847-538-8023.



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