APOLLO COMMUNICATION SYSTEMS
WiComm-50 and WiComm-Pro
O. M. 24997

⚠ WARNING

Do not proceed with these instructions* until you have READ the orange cover of this MANUAL and YOU UNDERSTAND its contents.

These WARNINGS are included for the health and safety of the operator and those in the immediate vicinity.

*If you are using a Clemco Distributor Maintenance and Part Guide, refer to the orange warnings insert preceding the Index before continuing with the enclosed instructions.

Electronic files include a Preface containing the same important information as the orange cover.

1.0   INTRODUCTION

1.1   Scope of manual

1.1.1   This manual covers setup, operation and replacement parts for Clemco's Apollo wireless helmet communication systems.

1.1.2   Read this manual, plus the radio and radio accessory manuals before setting-up and using the communication set. This manual does not contain important, safety information regarding the use and application with which the communication system is used. Manuals which contain operation and important information for Clemco Apollo respirators, related operator safety accessories, and abrasive blasting equipment are available on our web site, www.clemcoindustries.com,

1.2   Safety Alerts

1.2.1   Clemco uses safety alert signal words, based on ANSI Z535.4-1998, to alert the user of a potentially hazardous situation that may be encountered while operating this equipment. ANSI's definitions of the signal words are as follows:

This is the safety alert symbol. It is used to alert the user of this equipment of potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death.

CAUTION
Caution used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

⚠ CAUTION
Caution indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

⚠ WARNING
Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ DANGER
Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

1.3   Description

1.3.1   The components of the communication systems are listed below, and the headset and push-to-talk switch are shown in Figure 1. The complete systems include:
- (1) Headset: Fits over the ear with adjustable boom microphone.
- (1) Push-to-talk (PTT) switch assembly: The arm actuated switch puts the radio in transmit (talk) mode when pressed. When released the radio remains in receive (listen) mode.
- (-)* Radio(s) with rechargeable battery and jack to accommodate the PTT connector.
- (1) Battery charger.
- Radio-chest holster (optional accessory with WiComm-50.)

*   WiComm-50 radio sets include two radios with rechargeable batteries and one battery charger.

    WiComm-Pro radio sets include one radio with rechargeable battery and one battery charger.

Additional, compatible radios and/or communicator systems to accommodate additional operators may be ordered with the set or added at a later date.

Components in model 50 and Pro systems are the same except for the radios and the radio connectors on the PTT switch assembly. Because the radios and radio connections are different, the PTT switch and radios are not interchangeable between one system and the other.

2.0   INITIAL SET-UP and TEST

2.1   Charge the radios and set up per the user's instructions supplied with the radios.

2.2   Temporarily clip the PTT base onto a belt, waistband, or other convenient location that allows hands-free pressing of the switch.

2.3   Don the optional chest holster and adjust straps.

2.4   Insert plug on the PTT cable connector into the radio jack; the jack is identified by the image of a headset.

2.5   Align dots on headset and PTT cable connectors and push together to connect. Connectors will "snap'" into place when correctly seated.

2.6   Turn on radio, set volume to low, select channel, and place radio in holster or pocket.

2.7   Place the headset around the back of the head with the speaker over the left ear and the temple pad in front of the right ear.

2.8   Test functions of PTT, headset and radios. Adjust volume as required. Press the PTT switch to transmit, release the switch to receive.

3.0   SET-UP for OPERATION

3.1   Set-up and test radios to make sure batteries are charged and radios are functional.

3.2   Put on protective clothing except for hooded respirator and gloves.

3.3   Don the optional chest holster or determine a suitable pocket or other protected place to clip the radio.

⚠ WARNING

Refer to the radio instruction manual to make sure the user complies with the radio manufacturer's information regarding use of body-worn radios. The clip is an integral part of the radio's body-worn accessories. Do not remove the clip.

3.4   Attach the PTT base at a convenient, protected location that allows operation by an operator wearing heavy gloves and protective clothing. One suggestion is to clip the switch on the side of the waist, allowing the operator to activate the switch using an elbow or arm.

CAUTION

All parts of the communication system must be protected from dust and abrasive present in an abrasive blasting environment. Make sure that when all components are in place they are under the respirator cape or other protective clothing.

3.5   Connect the PTT cable to the radio, and place the radio in the holster, pocket, or other place that will be protected by the respirator cape.

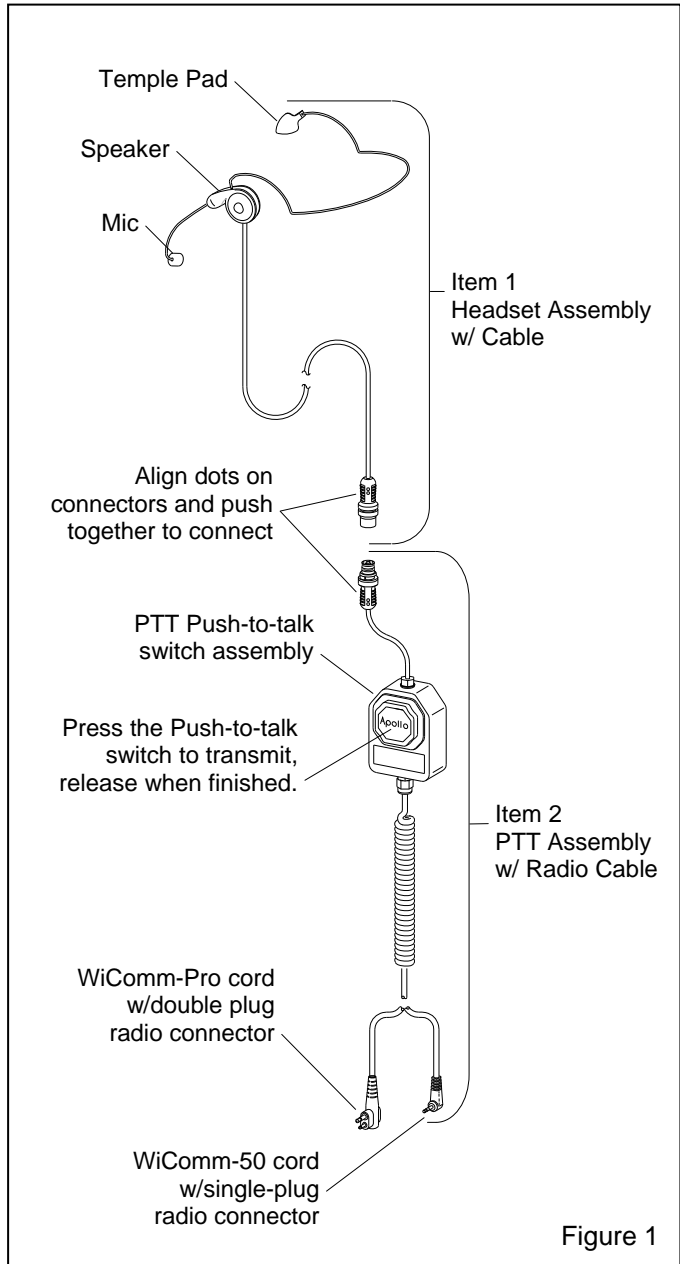**3.6**   Turn on radio, set volume to low.

Temple Pad
Speaker
Mic
Item 1
Headset Assembly w/ Cable
Align dots on connectors and push together to connect
PTT Push-to-talk switch assembly
Press the Push-to-talk switch to transmit, release when finished.
Item 2
PTT Assembly w/ Radio Cable
WiComm-Pro cord w/double plug radio connector
WiComm-50 cord w/single-plug radio connector

Figure 1

3.7   Place the headset around the back of the head with the speaker over the left ear and the temple pad in front of the right ear.

3.8   Test function; press the PTT to transmit, release the switch to receive.

3.9   Don respirator and adjust headset as required.

3.10 The headset cord goes through the respirator's inner collar (neckband). Adjust the collar so that it fits snugly around the neck in turtleneck fashion and without any interference from the cable.

3.11 Make sure the respirator cape and/or other protective clothing covers and protects all communication system components from abrasive and dust.

4.0   OPERATION

4.1   To Receive (listen)

4.1.1 The radio is always in the receive mode if the PTT switch is not pressed.

4.1.2 In high-noise-level applications such as abrasive blasting, the operator may have to stop the process when the transmission is heard in order to clearly hear the transmission.

4.2   To Transmit (talk)

4.2.1 Press the PTT switch and speak clearly and directly into the mic. As with receiving a transmission in high-noise-level applications, the operator may have to stop blasting in order to transmit clearly. Noises such as those from abrasive blasting, compressed air, motors etc. may sound like static on the receiving radio.

4.3   Shutdown

4.3.1 When finished work, remove protective clothing and communication components in a clean environment outside the use area.

4.3.2 Turn off radio and remove the PTT cable from the radio.

4.3.3 Replace the radio's connector cover.

4.3.4 Recharge batteries per instructions supplied with the radio.

5.0   MAINTENANCE

5.1 Refer to the radio operating instructions for care and maintenance of the radio. Pay special attention to the section(s) regarding battery charging and memory effect.

5.2 Clean non-porous parts of the headset and PTT assembly with a cloth dampened with water and mild detergent. Rinse with a cloth dampened with clean water and wipe dry. Although the components are water resistant, do not immerse in water.

CAUTION

Do not submerge the headset or PTT assembly in water. Doing so may damage the components.

5.3 Periodically clean the headset with a disinfectant wipe.

6.0   STORAGE

6.1 Place the components in a clean container and store in a clean, dry place.

6.2 Refer to the radio instruction manual for storage requirements for the radios.

7.0   REPLACEMENT PARTS

7.1   WiComm-50 Series Communication System

Item	Description	Stock No.
(-)	Communication set with radio set includes items marked with asterisk (*)	24990
*(-)	Radio set (two radios w/charger)	24995
(-)	Chest holster, radio, optional accessory	24996
* 1.	Headset assembly	25000
* 2.	PTT switch w/model 50 radio connector	25001

7.2   WiComm-Pro Series Communication System

Item	Description	Stock No.
(-)	Communication set with one radio includes items marked with asterisk (*)	24999
(-)	Communicator set without radio includes items 1 & 2 only	24991
*(-)	Radio set (one radio w/ charger)	21690
*(-)	Chest holster, radio	24996
(-)	Battery, rechargeable replacement	25472
* 1.	Headset assembly	25000
* 2.	PTT switch w/ Pro radio connector	25002