Wireless 6000

Wireless Drive-Thru Audio System

Operating Instructions

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Table of Contents

List of Figures

I.   GENERAL

The Wireless 6000 is a wireless audio system primarily for use at quick-service restaurants.

II.   EQUIPMENT FUNCTIONS AND USE

Wireless 6000 Base Station

COMMUNICATOR® and Headset

DM3
Microphone
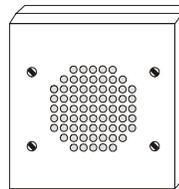
SP2500LP
Speaker

BAT40
Battery
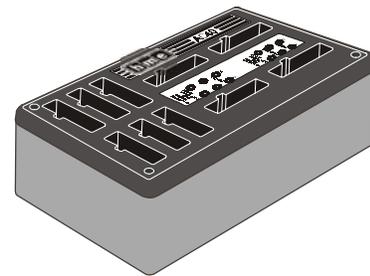
AC40
Battery Charger

Figure 1.   Wireless 6000 equipment

A. Base Station

The base station is the electronic heart of the Wireless 6000. It contains the circuitry through which all functions of the drive-thru audio system are channeled.

External base station features are shown in Figure 2, and described on page 3. Its internal controls and connectors are shown in Figure 8 on page 14.
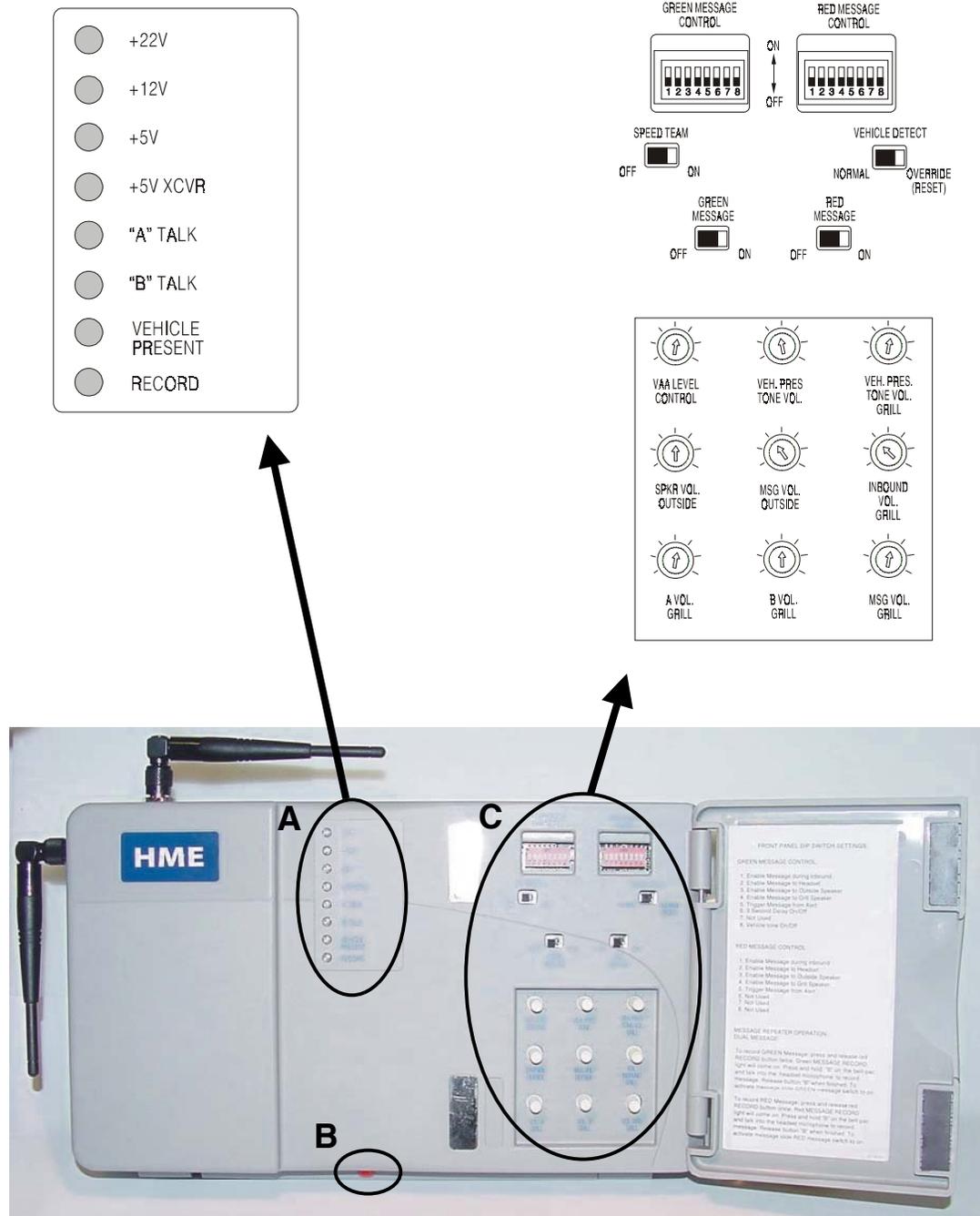
Figure 2.   Wireless 6000 Base Station with cabinet door open

Base Station External Features

Front – (See **A** on Figure 2.)
- Four **power supply lights** are on when the base station has AC power.
- **"A" TALK light** is on during channel-A transmission.
- **"B" TALK light** is on during channel-B transmission.
- **VEHICLE PRESENT light** is on when a vehicle is present in the drive-thru lane or when the system is in vehicle-detect override.
- **RECORD light** is ON RED when the base station is ready to record red message for the message repeater, and blinking red while red message is being recorded. It is on GREEN when the base station is ready to record green message for the message repeater, and blinking GREEN while green message is being recorded.

Bottom – (See **B** on Figure 2.)
- **PUSH FOR RECORD MODE button** must be pushed IN and released once to prepare the base station to record red message for the message repeater, or pushed IN and released twice to record green message.

Behind Front Door – (See **C** on Figure 2.)
- **MESSAGE REPEATER switches** must be switched ON to use the message repeater, OFF when the message repeater is not being used. Instructions are given on the inside of the front door.
- **SPEED TEAM switch** must be switched ON for speed-team operation, OFF for normal drive-thru operation
- **VEHICLE DETECTOR switch** must be switched to OVERRIDE to disable vehicle detector; to reset vehicle detector, switch to OVERRIDE for 5 seconds, then switch back to NORMAL and leave for normal vehicle detection operation.
- **DIP switches** at the top are used to control message audio routing to the speakers and Communicators. DIP switch settings are shown on the inside of the front door.
- **Nine level controls** are used to set VAA level, Vehicle tone level, audio source levels at the grill speaker, outbound audio source levels at the outside speaker and the inbound level from the speaker post microphone.

B. COMMUNICATOR®

1. Features and Controls

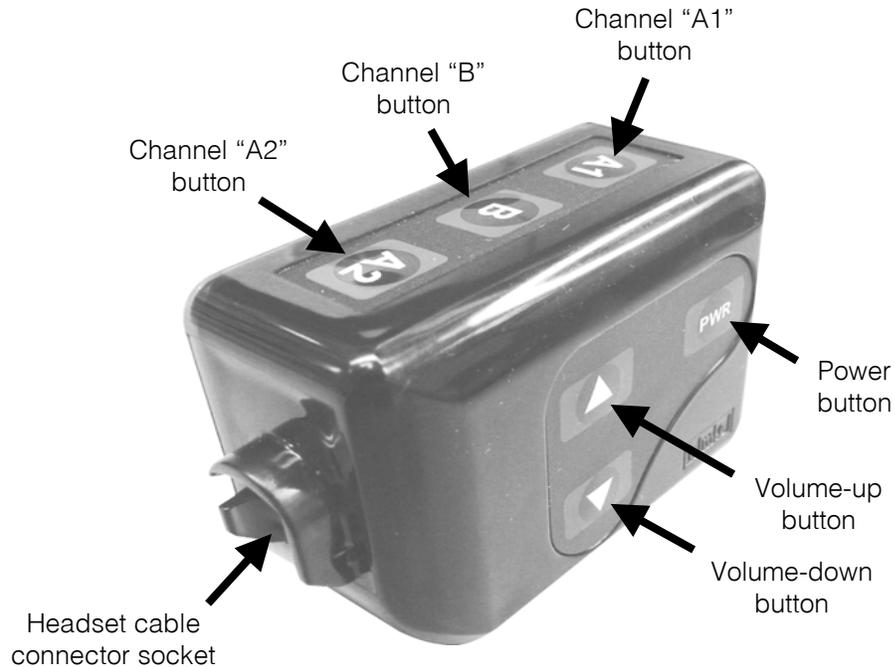**Figure 3.   Wireless 6000 Communicator**

2. How to Wear the Headset

- Wear the headset with the microphone on your right or left side next to your mouth.
- Adjust the headband for a comfortable fit.
- Clip the beltpac to your belt or waistband on either your right or left side.
- Run headset cable up your back and clip to clothing with clips.

Figure 4.   Communicator and headset

3. How to Use the COMMUNICATOR® Controls

The Communicator control buttons have a snap action. They will activate when pressed firmly. Use your fingertips, not your fingernails, to press the buttons.

a. Power On/Off

- **Power On —** Press and release the **PWR** (power) button. A voice message in the earpiece will say "power on," and the red power lights next to the **A1** and **A2** buttons at each end of the Communicator will go on. After a short time, one light will go off and the other will change to green. The voice message will then say "Lane 1 (or 2) ready." The green light indicates the Communicator is ready to use. In dual-lane operations, a green light next to **A1** indicates ready on Lane 1 and a green light next to **A2** indicates ready on Lane 2.
- **Power Off —** Press and hold the **PWR** button for approximately two seconds. A voice message in the earpiece will say "power off," and the power lights will go off.

b. Volume Up/Down

- **Volume Up Adjustment —** Press and release the volume-up ▲ button. Each time it is pressed, a beep will be heard in the earpiece as the volume increases one step. When maximum volume is reached, "maximum" will be heard in the earpiece. If you press and hold the volume-up button, repeating beeps will be heard as the volume steps up to maximum. "Maximum" will be heard in the earpiece, and will be repeated until you release the volume-up button.
- **Volume Down Adjustment —** Press and release the volume-down ▼ button. Each time it is pressed, a beep will be heard in the earpiece as the volume decreases one step. When minimum volume is reached, a double beep will be heard. If you press and hold the volume-down button, repeating beeps will be heard as the volume steps down to minimum.

4. How to Operate the Communicator

a. To Talk to Customers

- **Non-Hands-Free Communication —** To set the Communicator for non-hands-free communication, with the power off, press and hold the volume-down ▼ and **B** buttons while pressing and releasing the **PWR** button to turn the power on. To operate in the non-hands-free mode, press and hold the **A1** or **A2** button while speaking into the microphone. When you have finished talking to the customer, release the button.
- **Hands-Free Communication —** To set the Communicator for hands-free (HF) communication, with the power off, press and hold the volume-up ▲ and **B** buttons while pressing and releasing the **PWR** button to turn the power on. To operate in the HF mode, press and release the **A1** or **A2** button and speak into the microphone. When you have finished talking to the customer, press and release the **B** button or wait for the car to leave.
- **Auto-Hands-Free Communication —** To set the Communicator for auto-hands-free (AHF) communication, with the power off, press and hold the volume-up ▲ and **A1** buttons for single-lane operation or Lane 1 of dual-lane operations, volume-up ▲ and **A2** buttons for Lane 2 of dual-lane operations. Only one Communicator at a time can operate in the AHF mode. If an operator attempts to set a second Communicator for AHF operation, "System busy" will be heard in its headset. If a Communicator is turned off while in the AHF mode, it will automatically be reset for non-AHF operation. In dual-lane operation, a Communicator operator using the AHF mode cannot change lanes.

b. To Talk to Other Crew Members

Press and hold the **B** button and speak into the microphone. Holding the **B** button allows normal, telephone-type (full-duplex) conversation. Release the button when you finish speaking. Up to four crew members can talk at the same time without interference.

5. COMMUNICATOR® Registration

During installation of the Wireless 6000 system, each Communicator was registered for use with a specific base station. The base station thereby recognizes all registered Communicators when their power is on, differentiating between them and interfering transmissions from other electronic equipment operating on similar frequencies. A maximum of 15 Communicators can be registered.

If a Communicator is replaced, the new one must be registered, but the old one remains in memory. If the maximum number of 15 is exceeded, all current registrations must be cleared, and all active Communicators must be re-registered. To clear all current registrations, press the "Clear All Registration" button and the "Reset" button simultaneously. Refer to Figure 8 on page 14. Continue holding the "Clear All Registration" button after releasing the "Reset" button, until the clear code "c" (lower case) appears on the Communicator ID display. All active Communicators can then be registered, one at a time.

Register each Communicator as follows:

- Be certain all Communicators to be registered are powered off and the base station power is on.
- Open the base station and press the registration button near the lower-left corner of the base station circuit board shown in Figure 8.
  — If no Communicators are powered on, the status light shown in Figure 8 will be blinking red. If any Communicators are powered on, the status light will be blinking green.
  — After you press the registration button, the Communicator ID display will show a small "o" for open.
- Press and hold the **B** button while pressing and releasing the **PWR** (power) button to turn the Communicator on, then release the **B** button. This will cause the Communicator to enter the registration mode.
  — The status light in the base station will be blinking green, and the Communicator ID display will continue to show a small "o" for open.
  *— The power lights next to the **A1** and **A2** buttons on the Communicator will be blinking red then will change to green.*

When the registration is successfully completed:

— The green status light in the base station will be on steady and the Communicator ID display, to the left of the status light, will show the ID number assigned to this Communicator. ID numbers are assigned sequentially as 0 thru 9, A, b, C, d and E.

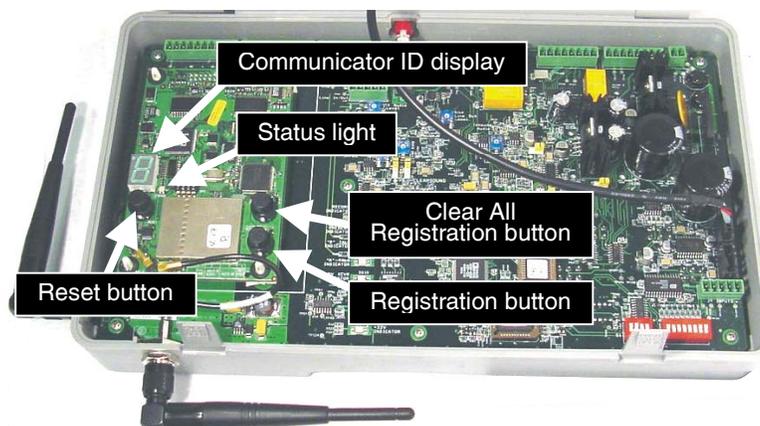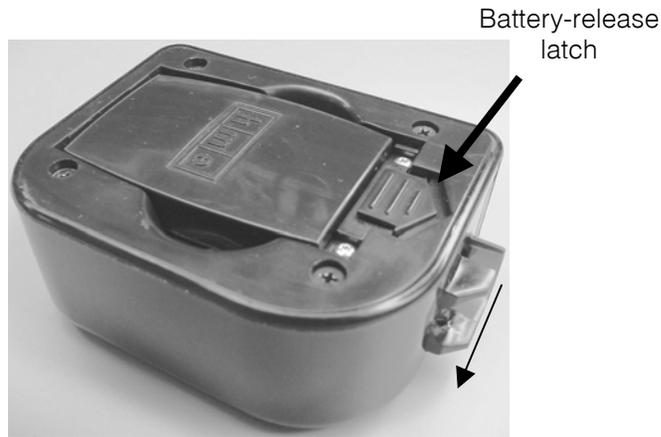— One of the power lights on the Communicator will remain on steady green.

Figure 5.   Registration buttons and indicators

6. Battery Removal and Replacement

Battery-release latch

**Figure 6.** Communicator battery-release latch

TO CHANGE BATTERIES: When a battery becomes weak, a voice in the earpiece will say "Change battery." When this happens, take the Communicator out of its pouch and remove its battery. Slide the battery-release latch in the direction of the arrow shown in Figure 6. Pull up on the end of the battery near the battery-release latch and lift the battery out of the Communicator, or turn the Communicator over and catch the battery in your hand.

TO REPLACE BATTERIES: When replacing a battery in the Communicator, place the end of the battery with the metal contacts into the battery holder on the Communicator, in the same position as the battery you removed. Press the top of the battery carefully into the battery holder until it snaps in place under the battery-release latch.

C. Battery Charger

- Insert battery in one of four charging ports until it clicks in place.
- Yellow light next to each battery port stays on while port is empty. When battery is in port, yellow light flashing next to battery port indicates CHARGE PENDING, which means the temperature where the charger is located is out of the battery's operating range (32°-104°F, 0°-40°C). Adjust the room temperature or move the charger to a cooler area. When battery is in port, yellow light on steady next to battery port means CHARGE FAILED. Follow diagnostic instructions on side of battery charger.
- Red CHARGING light next to battery port stays on while battery is charging.
- Green READY light next to battery port goes on when battery is fully charged.
- Store fully charged batteries in storage ports.

CAUTION: Do not remove batteries from the charger until the green READY light is lit, or the charger will reset and the charge cycle will begin again.

Battery in storage port

Battery in charging port
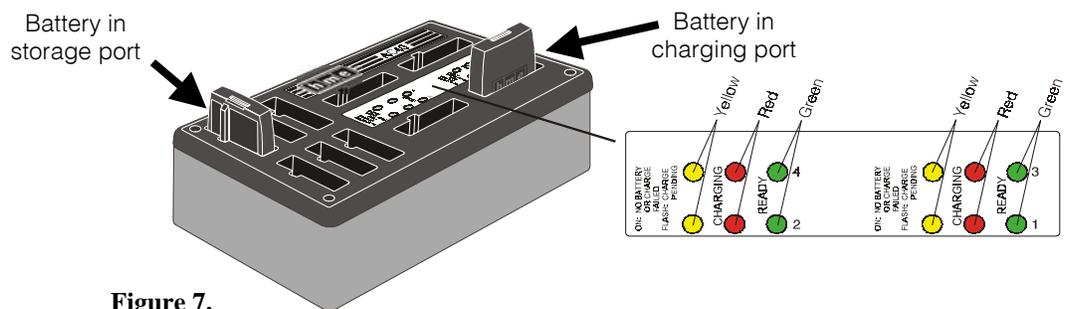
Figure 7.

Batteries in charger

III.   WIRELESS 6000 OPERATION

The Communicator can be operated in Hands-Free, Auto-Hands-Free or Hands-Free-Off modes. If this store does not use Hands-Free capability, the Wireless 6000 should be operated according to section 3.3.1 number 3 below in single-lane stores, or section 3.3.2 number 3 in dual-lane stores.

A full-duplex system supports the Hands-Free, Auto-Hands-Free and Hands-Free-Off modes. Communication can be transmitted and received at the same time, as in a normal telephone conversation. In the Auto-Hands-Free mode, transmission and reception are activated automatically when a customer drives into the drive-thru lane. In the Hands-Free mode, transmission and reception are activated by touching and releasing one of the **A** buttons on the Communicator. In the Hands-Free-Off mode, one of the **A** buttons on the Communicator must be held while the operator is talking to the customer. A half-duplex system only supports the Hands-Free-Off mode. One of the **A** buttons on the Communicator must be held while the operator speaks to the customer. The customer's voice will not be heard while the operator is transmitting.

When a customer arrives in the drive-thru lane, you will hear a single beep in the headset for single lane operations and for Lane 1 in dual-lane operations, or a double beep for Lane 2 in dual-lane operations. Also in dual-lane operation, if you are communicating with a customer when another customer arrives in the opposite lane, a higher pitch double beep will sound in the headset to alert you of the second customer's presence. When the first customer leaves the speaker post, the same higher pitch double beep will repeat in your headset every four seconds until you touch the **A1** or **A2** button to communicate with the second customer.

A. Single-Lane Operation (one base station for one speaker post)

1. Hands-Free (HF) Mode:
❗ As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in your headset, and you will be able to hear the customer at the speaker post or menu board.   ❗ Use volume-up ▲ or down ▼ buttons to adjust customer's voice level in headset if necessary.   ❗ Touch and release **A1** or **A2** button to speak and listen to customer.   ❗ Touch and release **A1**, **A2** or **B** button to end communication with customer.   ❗ Touch and release **A1** or **A2** button if you want to speak to the customer again.   ❗ If customer drives away from speaker post or menu board, headset automatically stops transmitting.
2. Auto Hands-Free (AHF) Mode:
❗ As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in your headset, and you will be able to hear the customer at the speaker post or menu board.   ❗ Use volume-up ▲ or down ▼ buttons to adjust customer's voice level in headset if necessary.   ❗ Speak and listen to customer without pressing any buttons.   ❗ Touch and release **A1**, **A2** or **B** button to end communication with customer.   ❗ Touch and release **A1** or **A2** button if you want to speak to the customer again.   ❗ If customer drives away from speaker post or menu board, headset automatically stops transmitting.
3. Hands-Free-Off Mode:
❗ As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in your headset, and you will be able to hear the customer at the speaker post or menu board.   ❗ Use volume-up ▲ or down ▼ buttons to adjust customer's voice level in headset if necessary.   ❗ Touch and hold **A1** or **A2** button to speak to customer. Release when finished.

NOTE: To communicate internally with another COM6000BP user, press and hold the **B** button while talking. Release when finished. Up to four Communicator operators can have conference-call type communication by all pressing the **A1**, **A2** or **B** button. Everyone pressing the same button will be heard by everyone else on that channel without interference. If a car arrives in the drive-thru lane while internal communication is taking place, priority will be given to one **A** channel for customer communication, which will reduce the number of internal communication channels available.

B. Dual-Lane Operation (two base stations for two speaker posts)

1. Hands-Free (HF) Mode:

❗ As a customer enters a drive-thru lane, you will hear an alert tone (single beep for Lane 1, double beep for Lane 2) in your headset, and you will be able to hear the customer at the speaker post or menu board if that lane is selected.

❗ Adjust customer's voice level in headset if necessary.

❗ Touch and release **A1** button for Lane 1 or **A2** for Lane 2, to speak and listen to customer.

❗ Touch and release **A1**, **A2** (depending on lane) or **B** button to end communication with customer.

❗ Touch and release **A1** button for Lane 1 or **A2** for Lane 2, to speak to the customer again.

❗ To change lanes, touch and release the opposite **A** button.

❗ If customer drives away from speaker post or menu board, headset automatically stops transmitting.

2. Auto Hands-Free (AHF) Mode:

NOTE: Only one Communicator operator can use this feature at a time. When operating in the AHF mode, changing lanes is not possible.

❗ As a customer enters a drive-thru lane, you will hear an alert tone (single beep for Lane 1, double beep for Lane 2) in your headset, and you will be able to hear the customer at the speaker post or menu board if that lane is selected.

❗ Adjust customer's voice level in headset if necessary.

❗ Speak and listen to customer without pressing any buttons.

❗ Touch and release **A1**, **A2** (depending on lane) or **B** button to end communication with customer.

❗ Touch and release **A1** button for Lane 1 or **A2** for Lane 2, to speak to the customer again.

❗ If customer drives away from speaker post or menu board, headset automatically stops transmitting.

3. Hands-Free-Off Mode:

❗ As a customer enters a drive-thru lane, you will hear an alert tone (single beep for Lane 1, double beep for Lane 2) in your headset, and you will be able to hear the customer at the speaker post or menu board if that lane is selected.

❗ Adjust customer's voice level in headset if necessary.

❗ Touch and hold **A1** button to speak to customer in Lane 1; **A2** to speak to customer in Lane 2.

C. Internal Communication

To communicate internally with other Communicator operators, press and hold the **B** button while talking. Release when finished.

In dual-lane operations, depending on how your Wireless 6000 system was set up, internal communication may be heard only by Communicator operators in your lane ("Split-B" operation). If your system was not set up for Split-B operation, internal communication will be heard by all Communicator operators in both lanes.

In dual-lane operations, up to three Communicator operators can have conference-call type communication by all pressing the **A1**, **A2** or **B** button. Everyone pressing the same button will be heard by everyone else on that channel without interference. If a car arrives in either drive-thru lane while internal communication is taking place, priority will be given to one **A** channel for customer communication, which will reduce the number of internal communication channels available.

D. Speed-Team Operation

Speed team operation is used during high-volume times. An order taker wearing a Communicator relays orders from outside into the store, using button **B**. Placing the speed-team switch, on the base station, in the ON position (shown in Figure 1) will disable the outside speaker/microphone and the vehicle-alert tone.

E. Message Repeater Operation

	ACTION	RESULT
To record Message #1	Press and release the RECORD MODE button on the base station **once**.	The **red** MESSAGE RECORD light on the base station will come on.
	Press and hold button **B** on the headset and talk into the headset microphone to record a message (up to 8 seconds).	The MESSAGE RECORD light on the base station will begin blinking.
	Release button **B**.	The record function will stop and the MESSAGE RECORD light will go off.
To record Message #2	Press and release the RECORD MODE button on the base station **twice**.	The **green** MESSAGE RECORD light on the base station will come on.
	Press and hold button **B** on the headset and talk into the headset microphone to record a message (up to 8 seconds).	The MESSAGE RECORD light on the base station will begin blinking.
	Release button **B**.	The record function will stop and the MESSAGE RECORD light will go off.

Locate the "RED MESSAGE CONTROL" and "GREEN MESSAGE CONTROL" DIP switches inside the front door of the base station for the following settings.

Red Message

- "RED MESSAGE" switch in the **ON** position enables the "RED MESSAGE" to be played.
- will be triggered by a vehicle present signal if "RED MESSAGE CONTROL" switch #5 is in the **OFF** position. The playing message can be cancelled by pressing Communicator button **A**.
- will be triggered by alert signals if "RED MESSAGE CONTROL" switch #5 is in the **ON** position.
- will be played to the locations selected if "RED MESSAGE CONTROL" switches 2, 3 and/or 4 are in the **ON** position.

  Switch 1 enables message to be played back with inbound on.
  Switch 2 enables message to be played back in all COM6000BP Communicators.
  Switch 3 enables message to be played back on the outside speaker.
  Switch 4 enables message to be played back on the ceiling speaker.
  Switch 5 causes message to be triggered by an alert signal.

Green Message

- "GREEN MESSAGE" switch in the **ON** position enables the "GREEN MESSAGE" to be played.
- will be triggered by a vehicle present signal if "GREEN MESSAGE CONTROL" switch #5 is in the **OFF** position. The playing message can be cancelled by pressing Communicator button **A**.
- will be triggered by alert signals if "GREEN MESSAGE CONTROL" switch #5 is in the **ON** position.
- will be played to the locations selected if "GREEN MESSAGE CONTROL" switches 2, 3 and/or 4 are in the **ON** position.

  Switch 1 enables message to be played back with inbound on.
  Switch 2 enables message to be played back in all COM6000BP Communicators.
  Switch 3 enables message to be played back on the outside speaker.
  Switch 4 enables message to be played back on the ceiling speaker.
  Switch 5 causes message to be triggered by an alert signal.
  Switch 6 causes a 3 second delay before message is played back.
  Switch 8 allows selection of a single-beep alert tone or two short beeps.

If both RED and GREEN MESSAGE switches are in the ON position, Red Message and Green Message will be played alternately.

After a new message has been recorded or after the base station has lost and regained power, any message to the outside speaker will always be heard in the headset the first three times it plays.

IV.   EQUIPMENT CARE AND CLEANING

A. Proper Handling

- When adjusting microphone position, hold boom at base, not at microphone end.
- Carry headset by headband, not by earpiece, and never by microphone boom.
- Use both hands to put headset on or take it off.

B. Cleaning

1. COMMUNICATOR®

- Remove batteries from Communicators.
- Clean batteries and Communicators with damp sponge sprayed with household cleaner. Squeeze excess liquid out of sponge before using it.
- Clean metal battery contacts on batteries and Communicators as follows. Wet tip of swab with alcohol and squeeze excess alcohol from it. Wipe each contact with swab and be certain all contacts are dry before reinstalling batteries.
- Foam muffs on headset earpieces can easily be replaced for sanitary purposes. To order extra foam muffs, call your local HME sales representative.

2. Battery Charger

Avoid splashing water or grease on the battery charger. Clean the battery charger monthly as follows.

CAUTION: Always unplug the battery charger before cleaning it.

- Remove all batteries from the battery charger.
- Clean the battery charger case with a damp sponge. Wet the sponge and wring it out so it is damp, not dripping wet. Spray household cleaner on the sponge (NOT DIRECTLY ON THE EQUIPMENT). Clean the battery charger with the sponge and dry it thoroughly.
- Wet the tip of a cotton swab with rubbing alcohol and squeeze the excess alcohol from the swab. Wipe the metal contacts inside each battery port with the damp swab. Allow the contacts to dry before placing batteries in the ports.

V.   IN CASE OF PROBLEMS

PROBLEM	PROBABLE CAUSE	SOLUTION
No sound is heard in headset when you press button **A** and speak into microphone.	Power may be off at base station.	Check circuit breaker for building.
	Power supply in base station may not be working.	Check power supply indicator lights on base station. If no light is lit, be certain AC power adapter is plugged into AC electrical outlet, and is connected to J29 on base station audio circuit board.
	Beltpac power may not be on.	Press Power ON/OFF button on headset. Be certain power light goes on.
	Volume may not be set correctly.	Adjust headset volume with Volume-up and down buttons.
	Battery may be low or defective.	Check Power light. If not lit, replace battery.
	Headset may be defective.	Use another headset. Call HME. *
Headset channel **A** or **B** is not working.	Beltpac power may not be on.	Press Power ON/OFF button on headset. Be certain power light goes on.
	Battery may be low or defective.	Check Power light. If not lit, replace battery.
	"A" Talk or "**B**" **Talk** light on base station does not light when button **A** or **B** on Communicator is pressed.	Use another beltpac. Call HME. *
Outbound sound is too low.	Outbound volume may be set too low for environment.	Turn outside speaker volume control, on front panel of base station, clockwise until volume is satisfactory.
No outbound sound; Customer cannot hear anything.	System may be set for speed-team operation.	Be certain SPEED TEAM button on base station is in OFF position.
	There may be loose wires on outside speaker or base station circuit board.	Check VEHICLE PRESENT light on base station. Check outside speaker wire connections in base station and at outside speaker.
	Speaker or base station may be defective.	Call HME. *
Customer cannot be heard in push-to-talk (PTT) operation.	System may be set for speed-team operation.	Be certain SPEED TEAM button on base station is in OFF position.
	Base station may be set for wrong drive-thru mode (full or half-duplex).	Check S6 DIP switch #1 at bottom of base station audio circuit board. It should be ON for full-duplex, OFF for half-duplex operation.
Only intermittent voice can be heard in headsets.	Transmitter antenna connectors on base station transceiver circuit board may be loose or damaged.	Be certain antennas are screwed securely onto base station. Check transmitter antenna cable connection at J201 and J202 near lower-left corner of transceiver circuit board. Pull and remove each connector plug, and check to be certain pin inside it is not bent. If not, call HME. *
	Circuit board may be defective.	Call HME. *

PROBLEM	PROBABLE CAUSE	SOLUTION
Personnel hear customers in ceiling speaker or headsets, but cannot hear each other.	Circuit board may be defective.	Check to see if status lights on base station are lit. Call HME. *
	Beltpac may be defective.	Use another beltpac. Call HME. *
No tone or sound is heard in ceiling speaker or headsets when vehicle enters drive-thru lane.	Power interruption may have caused vehicle detection circuit to be out of balance.	When no vehicle is in the drive-thru lane, move the vehicle detector override switch on the base station to the RESET position, then back to the NORMAL position.
	System may be set for speed-team operation.	Be certain SPEED TEAM switch on base station is in OFF position.
	Connector may be loose.	Check all connectors in base station. Call HME. *
Personnel cannot hear customers in ceiling speaker or headsets.	There may be loose wires on base station circuit board.	Check all connections on base station circuit boards.
	System may be set for speed-team operation.	Be certain SPEED TEAM switch on base station is in OFF position.
	Outside speaker or audio circuit board may have failed.	Call HME. *
Headset has intermittent sound.	Battery may be low.	Replace battery.
	Headset may be defective.	Use another headset. Call HME. *
There is still sound in headset after all customers have been served.	VEHICLE DETECT switch on base station may be in the OVERRIDE position.	Be certain switch is in the NORMAL position.
	Vehicle detector may be locked up.	Slide VEHICLE DETECT switch back and forth slowly twice.
Battery charger is not working.	Charger may not be plugged in.	Be certain charger is plugged in. If it still is not working, call HME. *
Red or Green message will not play.	Switch not on.	Be certain respective Red or Green message repeater switch on base station is in the ON position.

* For assistance, call HME at 1-800-848-4468, or Fax 858-552-0172.

2400MHz cordless telephone interference —
If there is a 2400MHz cordless telephone nearby, interference may occur. However, because the Wireless 6000 is a frequency-hopping system, this problem is unlikely.
If it does occur, changing frequencies on the telephone may alleviate the problem.
If not, move the phone as far as practical from the base station, or ask the customer to use another type phone. Call HME Customer Support at 1-800-848-4468 if assistance is required.

In the event of an electrical power outage —
such as from a lightning storm or power generator failure, if you experience problems with your HME equipment after the electricity comes on again, unplug the AC power adapters from their electrical outlets and wait 15 seconds, then plug them back in.
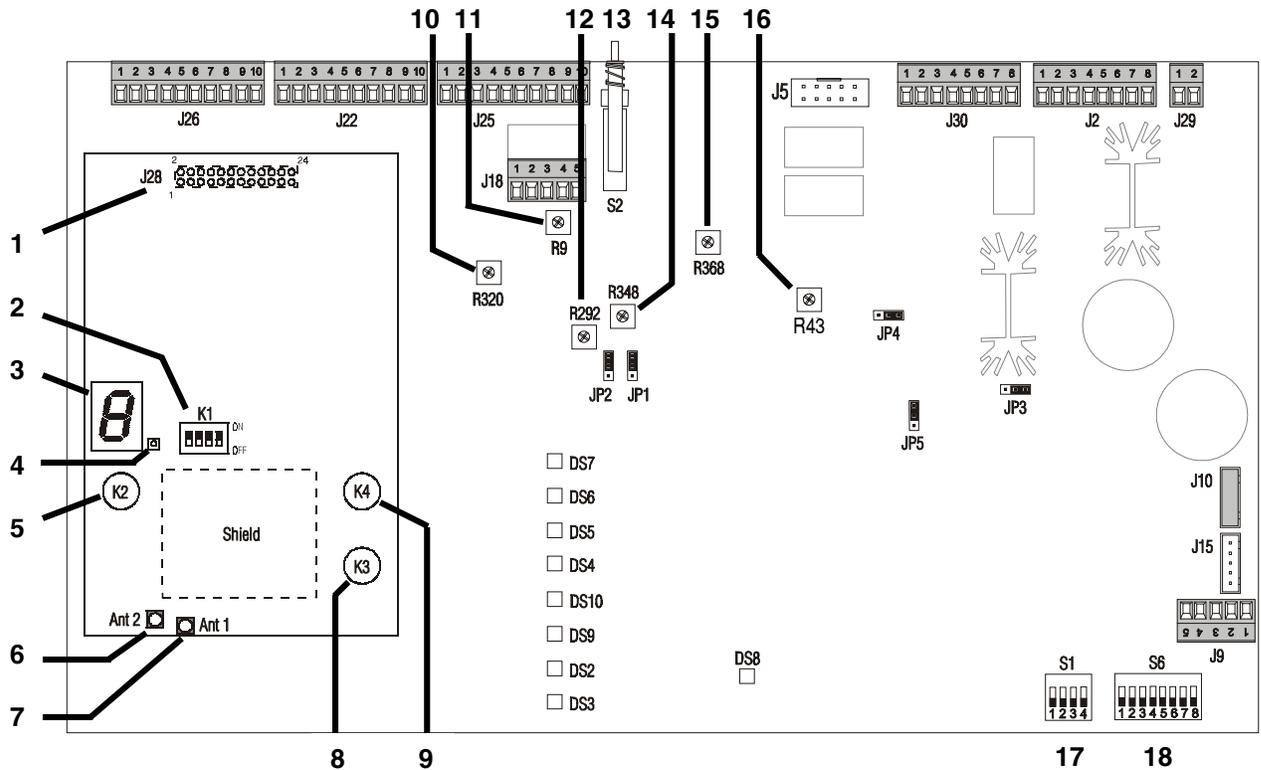
Figure 8.

Base Station Internal Controls and Connectors

1. 24-pin connector (on opposite side of board)
2. K1 DIP switch   #1= Dual lane
                                    #2= Split-B audio
                                    #3= Auto HF
                                    #4= Not used
3. Communicator ID display
4. Status light
5. Reset button
6. Ant2 antenna connector
7. Ant1 antenna connector
8. Start registration button
9. Clear all registration button
10. Line in level adjustment
11. Transmit audio level adjustment
12. Transmit message level adjustment
13. Record mode button
14. VAA attenuation level adjustment
15. Line out level adjustment
16. Inbound audio level adjustment
17. S1 DIP switch
18. S6 DIP switch

VI. SPECIFICATIONS

Base Station

Voltage input	16VAC ±2.5V
AC current input	2.5A maximum
Audio distortion	5% maximum level
Outside speaker output	3 watts RMS into 8 ohms
Ceiling speaker power	3 watts RMS into 8 ohms
Switches/Controls	2-position vehicle detector switch (Normal – Override/Reset)
(front panel only)	2-position "Speed Team" ON/OFF switch
	2-position "Red Message" ON/OFF switch
	2-position "Green Message" ON/OFF switch
	1-position "Record" switch (0n bottom of cabinet)
	VAA level control
	Vehicle present tone volume control in Communicators
	Vehicle present tone volume control at ceiling speaker
	Outside speaker volume control
	Outside recorded message volume control
	Inbound volume control from outside mic to ceiling speaker
	Channel "A" volume control at ceiling speaker
	Channel "B" volume control at ceiling speaker
	Recorded message volume control at ceiling speaker
TX/RX frequency	2400MHz – 2483.5MHz
Dimensions	8.2"H x 14.2"W x 3.5"D (208 mm x 361 mm x 89 mm)
Weight	4 lbs (1.81 kg) maximum

COM6000BP COMMUNICATOR®

Battery type	3.6V Lithium ion
Battery life	10 hours (typical)
RF frequency	2400MHz – 2483.5MHz
Weight	5.1 oz (.133 kg) with battery
Controls	Power ON/OFF button
	Volume-up button
	Volume-down button
	"A1" button
	"A2" button
	"B" button
Indicators	Dual-color LED (red/green)

AC40 Battery Charger

Voltage input	16.5VAC
Number of charging ports	4
Number of storage ports	6
Charging time	2 hrs maximum
Dimensions	7.6" x 4.6" x 2.6" (193mm x 117mm x 66mm)
Weight	1.5 lb (.68 kg)
Indicators	4 red, 4 green, 4 yellow LEDs

VII. OPTIONAL EQUIPMENT

Equipment	Model Number
Headset COMMUNICATOR®	HS500
Battery for HS500	BAT40
Headset Earmuff	No model number
Ceiling Speaker	MM100
Ultrasonic Vehicle Detector	DU3
Vehicle Detector Board	VDB101A
Vehicle Detector Loop (underground)	VDL100
Message Repeater	MR300
Low-Profile Speaker	SP2500LP
Microphone	DM3
Mode Switch (dual lane)	MS1000
Switcher Circuit Board	No model number
Remote Record Switch	No model number
Remote antenna Kit	No model number

VIII. FCC NOTICE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by HM Electronics, Inc. could void the users authority to operate this equipment.

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