



EOS | HD™

Wireless Drive-Thru Audio system

Installation Instructions

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Illustrations in this publication are approximate representations of the actual equipment, and may not be exactly as the equipment appears.

IMPORTANT NOTICES

FCC Regulation

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.

The antenna(s) used for the base transmitter must be installed to provide a separation distance of at least 7.87 inches (20 cm) from all persons, and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device has been designed to operate with the antennas or antenna kits listed below, and having a maximum gain of 2dBi. Antennas/Kits not included in this list or having a gain greater than 2dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

1. Antenna: NEARSON, S181TR-2450R, 2dBi
2. Antenna Kit: HME, EC20 (P/N G28493-1), 0dBi
3. Antenna Kit: HME, EC10 (P/N G27706-1)

Regulatory Model Numbers

The EOS|HD Base Station, BASE6200, has a Regulatory Model Number of 1401.
The EOS|HD Headset, HS6200, has a Regulatory Model Number of 1402.
The EOS|HD Beltpac, COM6200, has a Regulatory Model Number of 1403.

Industry Canada (IC)

This device complies with Industry Canada license exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

This device complies with Health Canada's Safety Code. The installer of this device should ensure that RF radiation is not emitted in excess of the Health Canada's requirement. Information can be obtained at http://www.hc-sc.gc.ca/ewh-sem/pubs/radiation/radio_guide-lignes_direct-eng.php

“Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.”



Hereby, HM Electronics, Inc. declares that the EOS|HD is in compliance with the essential requirements and other relevant provisions of R&TTE Directive 1999/5/EC.

Waste Electrical and Electronic Equipment (WEEE)

The European Union (EU) WEEE Directive (2002/96/EC) places an obligation on producers (manufacturers, distributors and/or retailers) to take-back electronic products at the end of their useful life. The WEEE Directive covers most HME products being sold into the EU as of August 13, 2005. Manufacturers, distributors and retailers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for Disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging which indicates that this product was put on the market after August 13, 2005 and must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of the user's waste equipment by handing it over to a designated collection point for the recycling of WEEE. The separate collection and recycling of waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local authority, your household waste disposal service or the seller from whom you purchased the product.



1. EQUIPMENT DESCRIPTION

The EOS|HD is an audio system primarily for use at quick-service restaurants. The equipment shown below is standard with each EOS|HD. Optional equipment can be ordered from your local dealer.

As you unpack the EOS|HD, check the packing list for each item to verify receipt of all equipment and quantities listed.



Figure 1. EOS | HD standard equipment

Optional Equipment

Equipment	Product Number	Equipment	Product Number
EOS HD Headset	HS6200	Low-Profile Speaker	SP2500LP
EOS HD Beltpac	BP6200	Ceiling Speaker	MM100
Battery for Headset or Beltpac	BAT51	Mode Switch (dual lane)	MS10
Belt for Beltpac	None	Remote Speed Team Switch	SW2
Headset Earmuff	None	Switcher Circuit Board	None
Headset Earpiece Cover (disposable)	None	Antenna Coverage Extension Kit	EC10
Microphone	DM5	Extended Coverage Antenna Kit	EC20
Telephone Interface	TI6000	Remote Antenna Kit	
Vehicle Detector Board	VDB102	(with 6 ft / 1.83 meter cable)	ANT20-6
Vehicle Detector Board (with relay)	VDB102R	Remote Antenna Kit	
Vehicle Detector Loop (underground)	VDL100	(with 30 ft / 9.14 meter cable)	ANT20-30

IMPORTANT! Before doing anything else, set up the battery charger and charge the batteries according to the instructions in [section 1.3](#).

1.1 Base Station Features

The base station is the electronic heart of the EOS|HD. It contains the circuitry through which all functions of the drive-thru audio system are channeled. External base station features are shown in Figures 2 and 3. Internal connectors and controls are shown in [Figure 24](#).

1.1.1 Front Panel

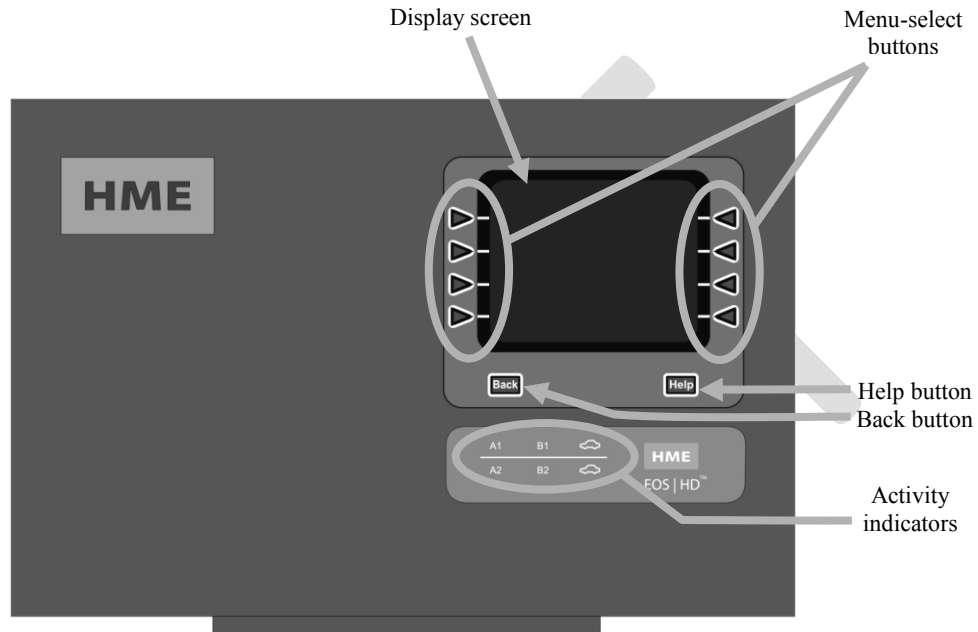


Figure 2. Base station front panel features

- The **display screen** is where all menu selections will be seen for installer setups and routine operation options. These instructions and the display screens shown are primarily for single-lane drive-thru operations. For multiple-lane operations, where additional settings are required, you will be directed to the Appendix.
- The **LANE STATUS** display will be shown on the base station until you press any of the buttons to select another display. The display screen will go dark after a period of inactivity; pressing any button will light it up.
- The **menu-select buttons** are used to make selections from the menu on the display screen.
- The **Help button** can be pushed to obtain information needed in case of problems with the EOS|HD.
- The **Back button** can be pushed to go back to the previous menu display.
- The **activity indicators** light up as follows:
 - Lane 1 activity (above the line)**
 - **A1** lights up when the A button is pushed on any Lane 1 headset.
 - **B1** lights up when the B button is pushed on any Lane 1 headset.
 - The **car above the line** lights up when a car is present at the Lane 1 menu board.
 - Lane 2 activity (below the line)**
 - **A2** lights up when the A button is pushed on any Lane 2 headset.
 - **B2** lights up when the B button is pushed on any Lane 2 headset.
 - The **car below the line** lights up when a car is present at the Lane 2 menu board.

1.1.2 Rear and Side Panels

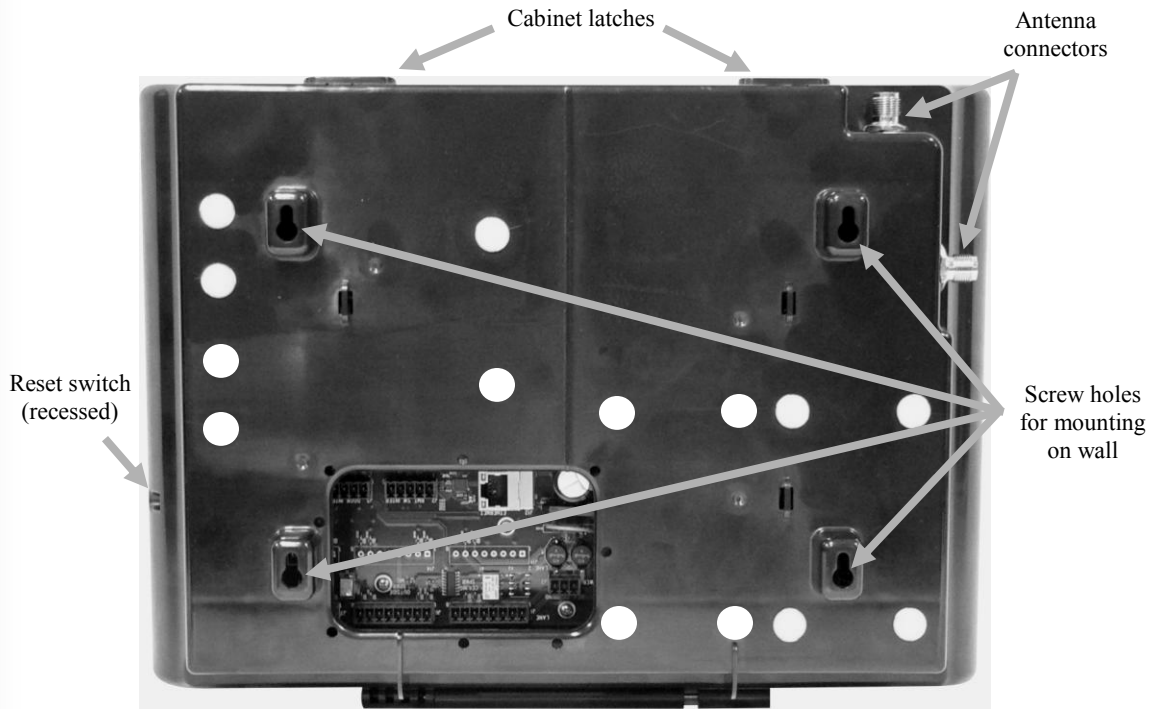


Figure 3. Base station rear panel features

- When both of the **cabinet latches**, on top of the cabinet are pressed down at the same time, the cabinet can be opened by pulling forward and down.
- The **antenna connectors** are for screw-mounting the enclosed antennas.
- The four **screw holes** are used to mount the base station on the wall.
- The **reset switch** is used to perform a soft restart of the base station. It is located in a small hole on the right side of the base station. To press the reset switch, carefully push a small pointed object, such as an unfolded paper clip, into the hole.

1.2 Headset Features

1.2.1 Controls and Indicators

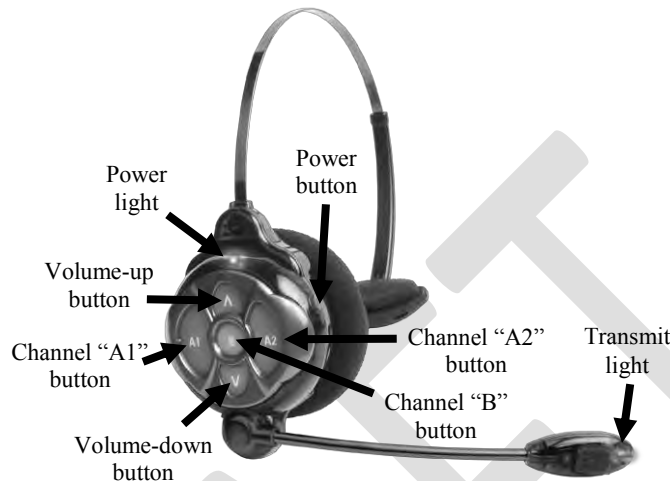


Figure 4. Headset control buttons and indicator lights

- **Power On** — Press and release the power button. A voice message in the headset will say “headset #, battery full/half/low” and both the power light and the transmit light will flash red. After a short time, the power light will change to steady green for Lane 1, and the transmit light will go off. A voice message will then say “Lane 1 (or 2).”
- **Power Off** — Press and hold the power button for about two seconds. A voice message in the earpiece will say “headset off,” and the power light will go off.
- **Volume-Up Adjustment** — Press and release the volume-up **▲** button. Each time you press the button you will hear a higher pitch beep in the earpiece as the volume increases. When you reach maximum volume, you will hear a high-pitched double beep. If you continue holding the volume-up **▲** button, the high-pitched beeps will keep repeating rapidly until you release the button.
- **Volume-Down Adjustment** — Press and release the volume-down **▼** button. Each time you press the button you will hear a lower pitch beep in the earpiece as the volume decreases. When you reach minimum volume, you will hear a low-pitched double beep. If you continue holding the volume-down **▼** button, the low-pitched beeps will keep repeating rapidly until you release the button.

1.2.2 Correct Wearing of Headsets

- Wear the headset with the microphone on your right or left side next to your mouth.
- Adjust the headband and microphone boom as needed.



Figure 5. Correct wearing of the headset

1.2.3 Battery Removal and Replacement

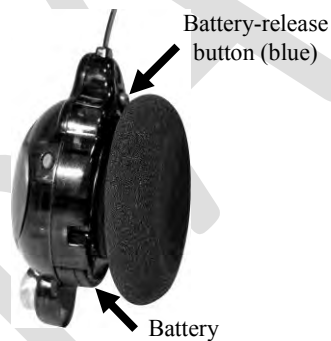


Figure 6. Headset battery-release button

To change batteries:

When a battery becomes weak, a voice in the headset will say “Change battery.”

When this happens, press the battery-release button and slide the battery out of the headset as shown in Figure 6.

To replace batteries:

When replacing a battery in the headset, place the end of the battery with the metal contacts into the headset, in the same position as the battery you removed. Press the battery carefully in until it snaps in place.

Recharge batteries according to the following instructions.

1.3 Battery Charger

1.3.1 Battery Charger Power Adapter for Use in the United States

Plug the cord from the +5VDC power adapter into the top of the battery charger as shown in Figure 7, and then plug the power adapter into an electrical outlet.

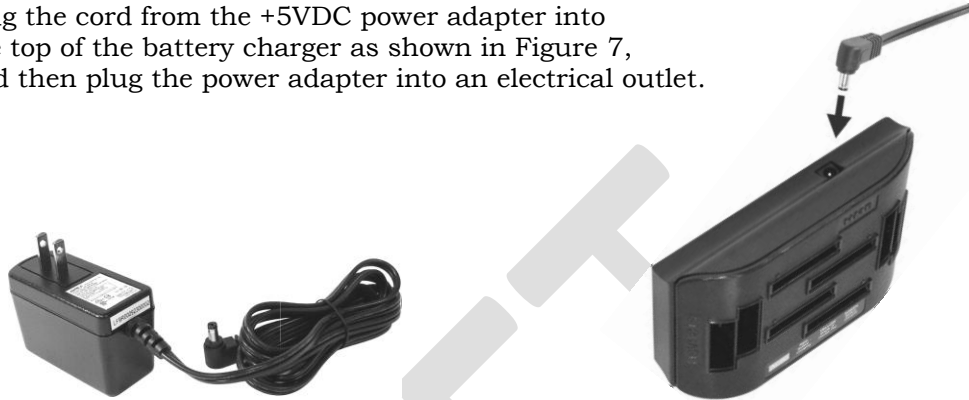


Figure 7. Battery charger power adapter connection

1.3.2 Battery Charger Power Adapter for Use Outside the United States

An international power adapter is provided with the battery charger for use in countries outside the United States. Install the necessary plug on the adapter as shown in Figure 8. Plug the cord into the battery charger and then plug the power adapter into an electrical outlet.

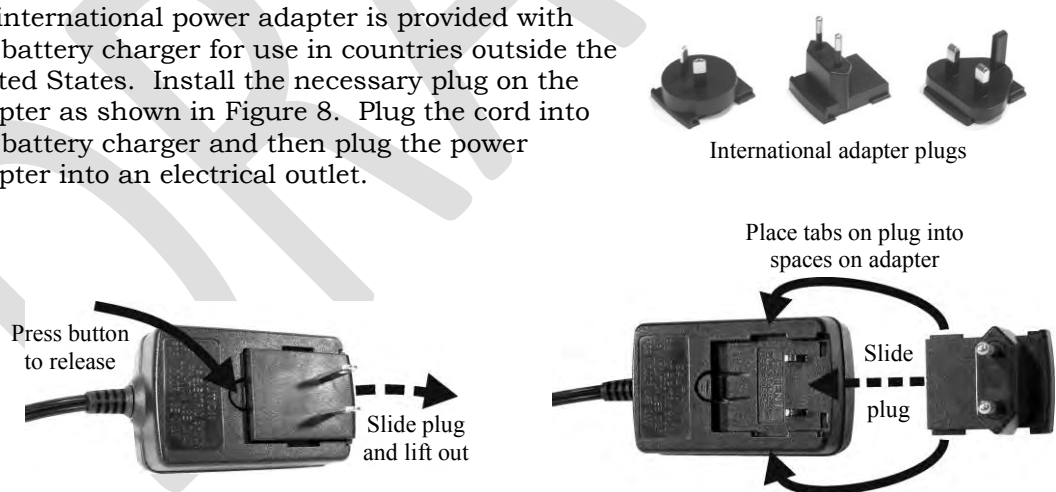


Figure 8. Changing plug in international power adapter

1.3.3 Battery Charging

Charge up to four batteries while you are installing the other equipment. Charging time is about 2.5 hours. When the batteries are fully charged, install them in the headset as shown in [section 1.2.3](#).

Procedure:

Insert batteries in the charging ports for charging. The batteries can only go into the charging ports one way. If they do not go in easily, turn them around. **DO NOT force them.** Push each battery down into a port until it snaps in place, to be sure it makes full contact.

Battery Status Lights:

The battery status lights indicate the charging status, as shown on the battery status guide at the bottom of the battery charger front panel.

- A **YELLOW LIGHT** stays on steady next to each charging port while the port is empty.
- Insert a battery in one of the four charging ports until it clicks in place.
- A **RED LIGHT** will stay on next to a battery while it is charging.
- A **GREEN LIGHT** will go on next to a battery when it is fully charged.
- If a **YELLOW LIGHT** is on next to a battery in a charging port, it means the charge failed. If this happens: (1) Be sure the battery is pushed all the way into the port until it snaps into place to make contact. (2) Try charging it in a different port. If it charges this time, the first charging port may be defective. If the battery does not charge in the second port, replace it with another battery.
- Store up to four fully charged batteries in the storage ports.

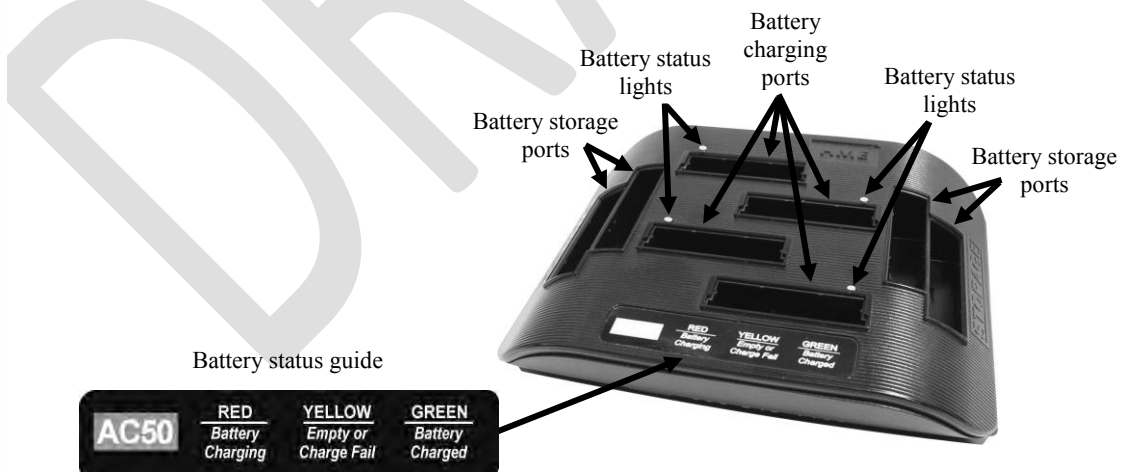


Figure 9. AC50 features and battery status guide

2. PREPARATION FOR INSTALLATION

- About 3 hours are required for the installation.
- Before you begin, coordinate the time of installation with the store owner/manager to minimize disruption of business.
- Be certain electrical power is available.
- Be certain some type of compatible vehicle detector loop or other vehicle detector system has already been installed in the drive-thru lane(s).

2.1 Tools Required

- Phillips (cross-point) screwdriver, size #2
- standard (slotted) screwdriver, 1/8 inch (3.2 mm)
- power drill and drill-bit set
- fish tape, 100 feet (30 meters)
- wire cutter/stripper
- soldering iron
- rosin-core solder
- electrical tape

2.2 Interference Prevention

CAUTION: *Interference may occur if the audio system is not properly installed.*

The following types of interference could occur if precautions are not taken during installation. Read this section carefully before proceeding.

2.2.1 Electrical Interference

Electrical faults in appliances and other electrical equipment can cause interference such as static, hum, crackling, buzzing and zip sounds in the headset when the system is active. Interference caused by electrical faults in lighting systems might not be noticed immediately, since most lighting systems are controlled by a timer or light-sensing device.

Faulty Wiring or Components:

Faulty components or electrical wiring in menu boards or speaker posts can cause symptoms identical to those caused by AM interference. Remove power to the menu board or speaker post at the circuit breaker until the electrical system can be repaired.

Improper Earth Grounds:

Improper earth grounds in the building can cause random buzzing and zip sounds in the headset when operating in either channel A or B. Placing a surge protector between the base station AC adapter and the electrical outlet can eliminate the problem.

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 equipment and wait 15 seconds, then plug it back in.

2.2.2 Radio Frequency (RF) Interference

Finding the cause of RF interference is difficult and time-consuming. The following precautions will help you avoid the most common RF interference problems.

- Find the best base station and antenna locations before mounting them.
- Solder all joints (including crimp joints) at the speaker location. This is very important in damp climates
- Be certain all connections are tight.
- Avoid leaving unshielded wire anywhere in the audio system.
- Ground the shield of the outgoing speaker cable. In severe cases of interference, grounding the shield at the speaker may help.

AM and FM interference may cause similar problems but require different corrective action. AM interference may increase or decrease at certain times of day, since AM transmitter power must be reduced in some areas between 5 and 7 PM.

Note the following symptoms carefully to determine the possible cause of interference. If you need help; in the USA call HME Technical Support at 1-800-848-4468, outside the USA, call your local HME representative.

AM Interference:

Static or hum may be heard in the headset when the system is active. The AM interference can enter the system through the cables connecting the outside speaker/microphone to the base station. To block the AM signal, first find out if there is an AM station in the area, and find out its operating frequency and transmitter output power. You can then modify the equipment with a network of inductors and capacitors that will trap the AM signal where it enters the system.

Static, hum and/or voice may be heard in the headset when the system is active or when transmitting in either channel A or B. The interference can enter the system at three different locations: the outside speaker cables, the headset/belt-pac receiver and the base station transmitter. The AM station frequency may completely suppress or overpower the audio system's transmitter signal, depending on the operating frequency, transmitter tower location and output power of the AM radio station. You may need to move the base station.

FM Interference:

FM interference may cause cracks, pops and other noises to be heard in the headset when the headset is transmitting on either channel A or B, or when the system is active.

3. EQUIPMENT INSTALLATION

These instructions are for installation of standard EOS|HD equipment and most commonly used optional equipment. Specific instructions may also be enclosed with optional equipment.

If you haven't already done so, before proceeding with the installation, plug the battery charger into an AC electrical outlet and charge all the batteries in it while the other equipment is being installed. Refer to [section 1.3](#).

3.1 Base Station Installation

Things to consider before and during base station installation

- The base station should be located where, if you stand with your back to the wall, you can see most of the work area where the headsets will be used.
- The number of walls between the base station and where the headsets will be used should be minimized.
- Sheets of stainless steel on the walls may shield or reflect radio signals.
- Outside coverage may be needed for Speed Team operation.
- Large windows will allow the signal to pass through and can improve outside coverage.
- The antenna coverage area can be extended with the Remote Antenna Kit.
- If a system is being replaced, it may not be desirable to use the same mounting location for the base station as used before, but it may be required in some cases.
- If using a power source other than that supplied by HME, the power source must provide 24 volts DC regulated to +/-5%, be capable of supplying a minimum of 50 watts of power and be "LPS" rated for safe operation of the unit. The power source must meet all applicable local regulatory requirements.

A typical drive thru QSR building is set up as shown in Figure 10. The numbers in the following instructions refer to the location numbers in Figure 10. This drawing is similar to most store layouts. The base station is typically mounted at location #1. This is also where old equipment is usually found. The order taker is usually at location #2 in a high volume store. The order taker headset signal from location #2 must penetrate two walls to reach the base at location #1. Signals from the kitchen must only penetrate one wall to reach the base at location #1. If there are large pieces of equipment in the kitchen or speed-team operation is needed outside at location #6, location #1 may be a poor choice for mounting the base. For speed team operations, the signal would have to penetrate three walls and get by the kitchen equipment to reach the base at location #1. Coverage in the store around location #7 and outside at location #6 may be poor. Don't forget to check for a basement. Signals from basements may not reach the base at location #1.

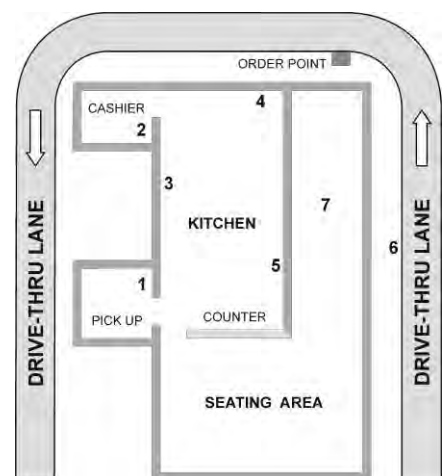


Figure 10. Typical drive-thru store layout

If outside coverage is not needed, mounting the base at locations #3, #4 or #5 is best. Headset signals from most work areas would thereby require no wall penetration. Other work and seating areas may require signals to penetrate one wall. In this case, the remote antenna kit can be used. The antenna may not need to be mounted far from the base station unless a large piece of equipment causes a dead spot.

The EOS|HD base uses two antennas to avoid multi-path dropouts. Both antennas transmit and receive signals. The antenna coverage area can be improved by mounting one antenna away from the base. The base will select the antenna that gives the best signal to a particular location.

If outside coverage is required for speed team coverage, mount the base as close as possible to the wall that faces the desired coverage area. In this case, mounting the base at location #5 to cover location #6 will minimize wall penetrations. Stores with a large window near the base will have better outside coverage if the base is facing the windows. If there are large windows along the wall next to location #6 outside coverage will be enhanced. Also consider in-store coverage. If the base is located in the best location for inside and outside coverage, but the coverage outside is still spotty then the antenna extension cable needs to be run outside the store. In this case, hanging the antenna under an eave next to the desired area will cover that side of the store very well. Another approach is to go up through the roof and have the antenna overlook the desired side area. This approach overcomes obstacles, like walls, that may shadow the signal when the antenna is at a lower height.

Discuss the location of the base station with the store owner or manager. It should be mounted less than 10 feet (3 meters) from an available electrical outlet, and away from grease and large metal objects. Also, it should be mounted near eye level, so the display screen will be easily visible and the control buttons will be accessible. The base transmitter antenna(s) must be installed where they will be at least 7.87 inches (20 cm) from all persons, and will not be near any other antenna or transmitter. The remote antenna kit should be used to extend the coverage area if needed. [See section 3.1.6.](#)

Tandem, Y-Lane or Dual Drive-Thru

For tandem, Y-lane or dual drive-thrus, a vehicle detector and an outside speaker and microphone will be installed for each order point, and cables pulled as described in [sections 3.2 and 3.3.](#)

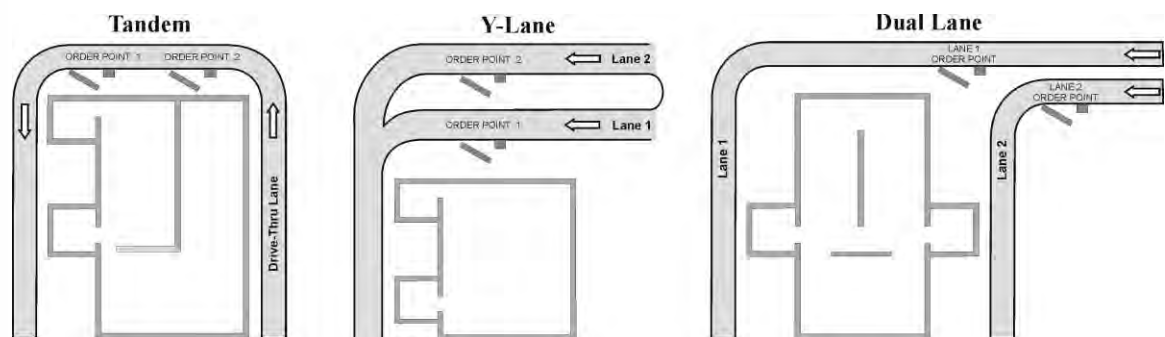


Figure 11. Typical tandem, Y-lane and dual drive-thru layouts

3.1.1 Install Antennas on Base Station

Locate the two enclosed antennas, and install them by screwing them onto the base station antenna connectors, as shown in Figure 12.

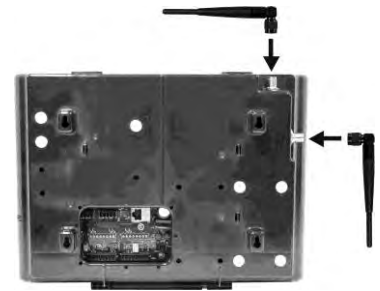


Figure 12. Antenna mounting

3.1.2 Connect Base Station Power Supply

You may have Type A or Type B power supply, as illustrated in Figure 13. Connect the power supply to the base station and an AC electrical outlet according to the numbered instructions for your type power supply, as shown in Figure 13. If necessary, refer also to the wiring diagrams in [Figures 26-36](#).

Note: If using a power source other than that supplied by HME, it must provide 24 volts DC regulated to +/-5%, be capable of supplying a minimum of 50 watts of power and be “LPS” rated for safe operation of the unit. The power source must meet all applicable local regulatory requirements.

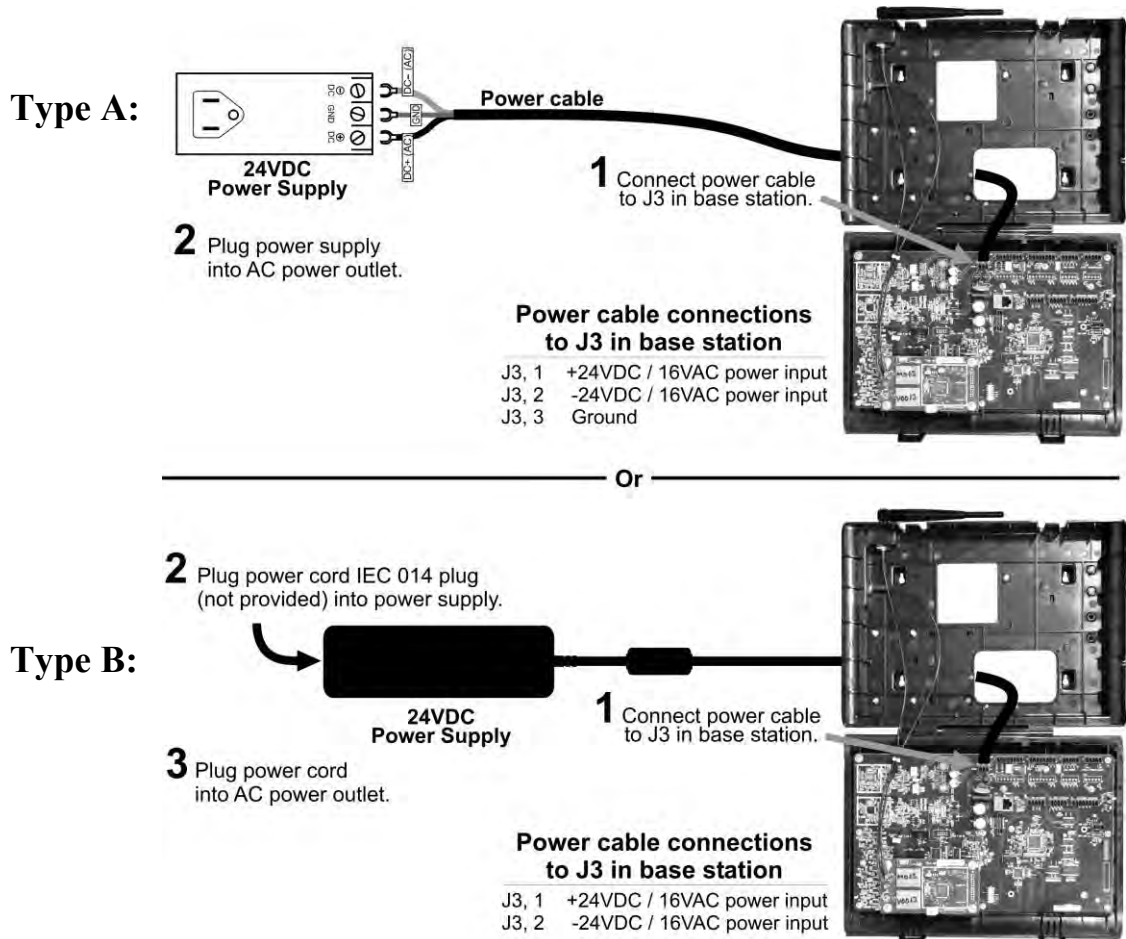


Figure 13. Power supply connection to base station

3.1.3 Register Headsets to Base Station

Before you permanently mount the base station on the wall, you must register the headsets to the base station, so they can be used in a walk test to determine where the base station should be mounted for the best reception and transmission to/from all the areas where they will be used.

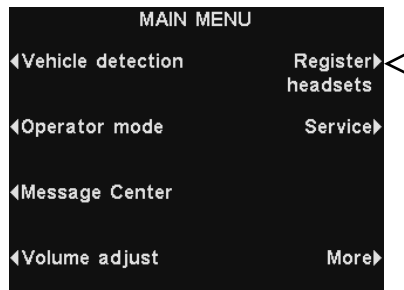
After each headset has been “registered” to a base station, the base station will recognize it when its power is on, and will be able to tell the difference between it and other electronic equipment operating on similar frequencies.

Up to 15 headsets can be registered to a base station. If any is replaced, you must register the new one before you use it. When a headset is replaced, the old one remains in memory. If the maximum number of 15 (in memory) is exceeded, you must clear some/all of the current registrations so that fewer than 15 headsets are registered before you can register a new one.

Register each headset as follows:

Note: Headsets must be within 6 feet (1.83 meters) of the base station while being registered.

- Be certain all headsets to be registered are turned off and the base station is plugged in and its power is on. Others can be on or off.
- On the **LANE STATUS** display, press the **Menu** button.



- On the **MAIN MENU** display, press the **Register headsets** button.
- On the **HEADSET REGISTRATION** display, press the **Register headsets** button.



If you press the **Clear inactive** button, you will unregister only those headsets that are turned off.

If you press the **Clear all** button, you will unregister all headsets that are registered to the base station, and the base station will automatically reset. You will be given a warning and allowed to quit or continue before registrations are cleared.

- On the **TO REGISTER HEADSETS** display, follow the instructions in the box.



- The first time any headset is being registered, only the **Register single** option is available. After a single registration has been completed, the **Register multi** (multiple) option will appear.

Note:

This occurs with the default, Audio Fidelity Automatic setting, which can be used with either narrow-band or wide-band headsets. If you are installing a new base where either all narrow-band or all wide-band headsets already exist, you can change the Audio Fidelity mode by selecting **Non-HD Audio** or **HD Audio** in [section 4.3.2 of the Advanced Installer Setups](#).



- If you are registering more than one headset, press the **Register multi** (multiple) button and continue registering each headset, one at a time. When you have finished, press the **Back** button to exit the multiple registration mode.

When each registration is successfully completed:

- The ID number assigned to this headset will be shown. ID numbers are assigned sequentially as 0 thru 9, A, B, C, D and E.
- The power light on the headset will remain on steady green.



- When you have finished registering headsets, press the **Back** button to exit the registration mode. You can continue pressing the **Back** button until you return to the **MAIN MENU** or **LANE STATUS** display.

If you have any problems registering the headsets:

In the USA, call HME Technical Support at 1-800-848-4468.
Outside the USA, call your local HME representative for assistance.

3.1.4 Walk Test for Best Transmission/Reception

Before permanently mounting the base station, do a walk test with the base station at various locations until the best possible transmission/reception is found. To check transmission/reception, have two people walk around the area where the headsets will be used, pressing the B button to communicate with each other, walking past the menu board to test reception when using speed-team operation.

Note: If you need to extend the antenna coverage area, install a Remote Antenna Kit as described in section 3.1.6, but do not permanently mount the antenna. Repeat the walk test, while moving the antenna around the area to determine where the antenna improves transmission/reception most.

3.1.5 Mount Base Station on Wall

When you have found the best location for transmission and reception, unplug the power adapter and mount the base station at the desired location as follows.

- Hold the base station against the wall, with its door open, and mark the wall through the four screw holes on the back of the cabinet, shown in Figure 14.
- Set the base station down and drill four $\frac{3}{16}$ inch (4.76mm) holes in the wall at the marked spots.
- Insert the enclosed #6 screw anchors into the holes.
- Screw the four enclosed screws into the anchors, leaving the screw heads $\frac{1}{8}$ inch (3.2 mm) away from the wall.
- Mount the base station on the wall by placing the four screw holes in the back of the base station over the four screws, sliding the base station downward and then tightening the screws to secure the base station in place.
- Install optional switcher boards and vehicle detector boards after mounting base station on wall.

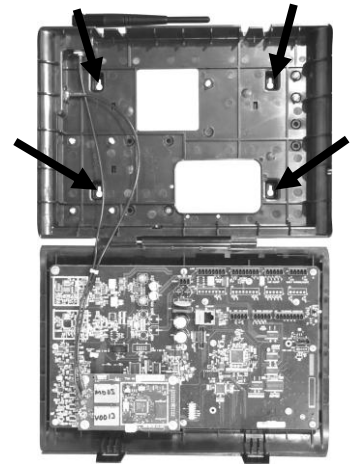


Figure 14. Open base station showing four screw holes

3.1.6 Install Remote Antenna Kit (if needed)

The remote antenna kit allows one of the antennas to be mounted up to 30 feet (9.14 meters) from the base station for improved coverage. With the extension cable and mounting bracket, an antenna can be mounted inside a window or outside to extend coverage for speed team operation. Install the remote antenna kit as follows.

- Lay out the enclosed 30 foot (9.14 meter) antenna cable, with its female connector near the base station and its male connector at the proposed area where the antenna will be mounted. Bend and align the cable to the desired position.
- Remove electrical power from the base station.
- Remove (unscrew) the antenna from the top of the base station.
- Screw the female antenna cable connector onto the base station antenna connector where the antenna was removed.

Note: To minimize stress on the connector, bend the cable to line it up with the base station antenna connector before connecting it.

- Screw the antenna onto the male connector at the other end of the antenna cable.
- Hold the enclosed antenna mounting bracket against the wall at the desired mounting location and mark the wall through the two screw holes in the bracket. It may be necessary to mount the antenna high enough to avoid a safety hazard or possible damage to the antenna.
- Remove the bracket from the wall and drill two $3/16$ inch (4.76mm) holes in the wall at the marked spots.
- Insert the enclosed screw anchors into the holes.
- Place the enclosed screws through the holes in the bracket and screw them into the two screw anchors to secure the bracket to the wall.
- Remove the antenna from the antenna cable. **DO NOT** remove the antenna cable from the base station.
- Unscrew the hexagonal nut from the antenna cable connector.
- Insert the antenna cable connector through the hole in the mounting bracket as shown in Figure 15, and screw the hexagonal nut onto the connector to secure it in place on the bracket.

Note: To minimize stress on the bracket, bend the cable to line it up with the bracket before connecting it.

- Replace the antenna on the cable connector mounted on the wall.

Note: The best transmission/reception may be achieved with the antenna perpendicular to the wall. However, if it is a safety hazard or is likely to be bumped and damaged in that position, it may be necessary for the antenna to be parallel to the wall.

- Return electrical power to the base station and resume normal operation.

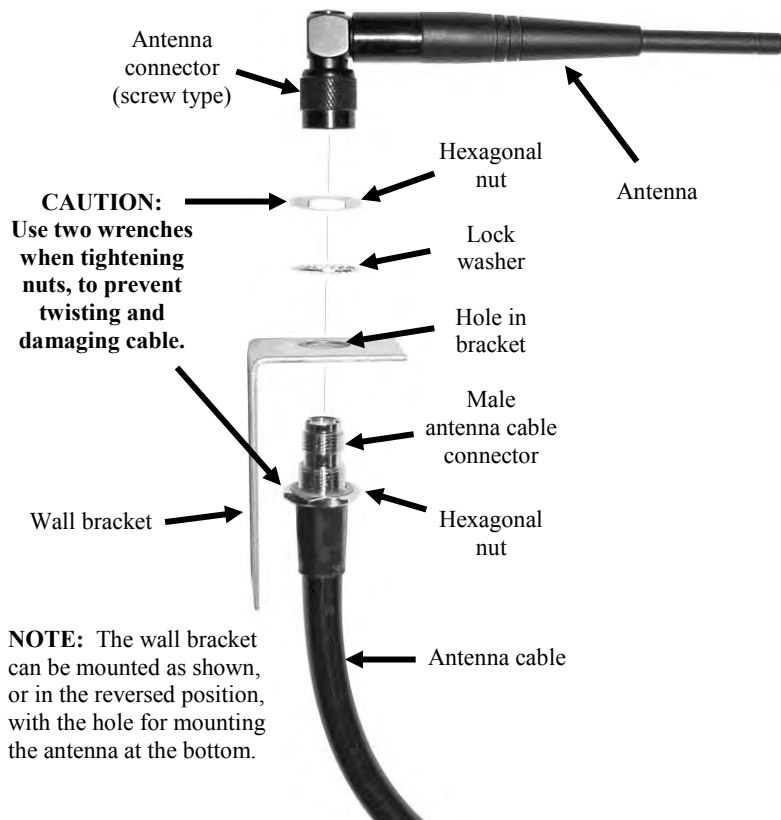


Figure 15. Remote antenna mounting on wall bracket

3.2 Cable Pulling

CAUTION: *If you do not use the HME audio cable, be sure the speaker/microphone wires you use are a twisted pair. For full-duplex installations, the speakers and microphones must use separate cables or audio feedback will occur. Never run high-voltage cables in the same conduit with audio or loop cables.*

The recommended HME audio cable has four color-coded, insulated wires and a bare shield (drain) wire. It can be used to connect any component to the base station. Pull the cables (two for full-duplex, one for half-duplex) through the conduit from the speaker post or menu board into the building as follows.

For dual drive-thru installations, repeat the following steps to route **shielded** cable from inside the building to the speaker post or menu board in each lane.

For tandem drive-thru installations, repeat the following steps to route **shielded** cable from inside the building to the speaker post or menu board at each order point.

- Run fish tape from inside the building, through the conduit to the speaker post or menu board.
- Go outside. If you are pulling more than one cable, **mark the cables and spools for identification**. Fasten each cable to the fish tape where it comes out of the conduit, and go back inside the building.
- Pull the fish tape and cable through the conduit into the building. Disconnect the cable from the fish tape and pull enough of it in to reach the base station.
- Go outside again and route the cable from the outside conduit to the speaker and microphone units in the speaker post or menu board.
- Cut the cable, leaving about 3 feet (915 mm) of slack. If more than one cable have been pulled, **mark the ends of the cables again for identification**.
- Remove about 2 inches (50 mm) of the outer insulation from the end of each cable. Strip about ½ inch (12 mm) of insulation from each of the four wires in the cable.
- Route all the cables together to the base station, through walls and over ceiling panels if possible. Cut off any slack cable so no coils of excess cable are left in the ceiling or elsewhere.

3.3 Outside Microphone and Speaker Installation and Cable Connections

This section describes standard, full-duplex installations, using a DM5 Microphone and SP10 Speaker. Installation requirements may vary. In dual-lane or tandem systems, speakers and microphones must be installed for each lane or order point. Refer to the wiring diagrams in [Figures 26 through 36](#).

Note: The DM5 requires a 3-wire connection.

Mount the microphone first, against the speaker grill in the speaker post or menu board. Position it where the customer will speak directly into it. The speaker can then be installed anywhere around the microphone, as long as they are at least 2 feet (610 mm) apart, center-to-center, to avoid audio feedback.

3.3.1 Install DM5 Microphone

Typical DM5 Microphone installation involves placement of the microphone in its molded foam enclosure and mounting it inside the upper compartment of the speaker post, connecting it to the microphone/speaker cable wires from the drive-thru audio system, and filling the empty space behind the unit with acoustic foam (not provided). If the DM5 is mounted in a small area, its molded foam enclosure may need to be compressed in order to close the compartment. Follow these instructions to install the DM5 in a typical speaker post. Installation in the microphone compartment of a menu board is similar to installation in a speaker post.



Figure 16. DM5 Microphone

- Open the speaker post and remove any existing equipment, foam or debris. If there is an existing microphone, remove it and disconnect the microphone cable from it.
- Remove the small portion of the provided foam microphone enclosure, resulting in the two pieces of foam shown in Figure 17.
- Insert the DM5 Microphone cable through the hole in the foam enclosure, and place the microphone into the hole as shown in Figure 17.
- Insert the removed piece of foam back into the hole in the foam enclosure, to fit snugly against the back of the microphone, as shown in Figure 17.

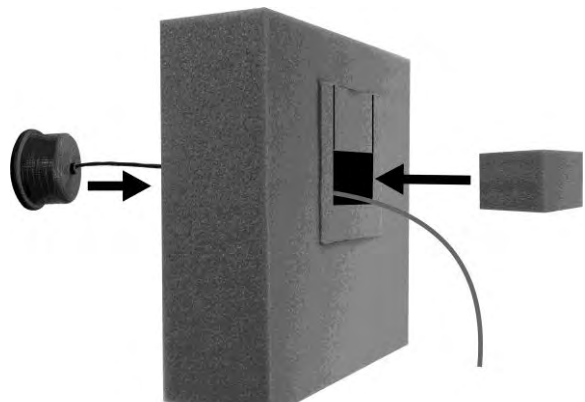


Figure 17. Placement of DM5 Microphone and foam in the foam enclosure

- Using a serrated knife, trim the foam enclosure so it is $\frac{1}{4}$ to $\frac{1}{2}$ inch larger than the upper speaker post compartment, vertically and horizontally, for a compressed fit. Keep the foam pieces to fill the compartment, if needed.
- Place the foam windscreen in front of the microphone, positioning it so it will cover the inside of the speaker grill as shown in Figure 18.
- Place the microphone, in its foam enclosure, into the compartment, so the front of the microphone windscreen is **flush against the metal**, centered on the grill, as shown in Figure 18.
- Splice the audio system's microphone cable wires (new or existing) to the wires of the cable extending from the back of the DM5, according to the audio system wiring diagram. Solder the connection, and then cover the splice with shrink tubing or crimp caps.
- Pack acoustic foam (not provided) in the empty space behind the DM5 Microphone and its foam enclosure, filling the space.

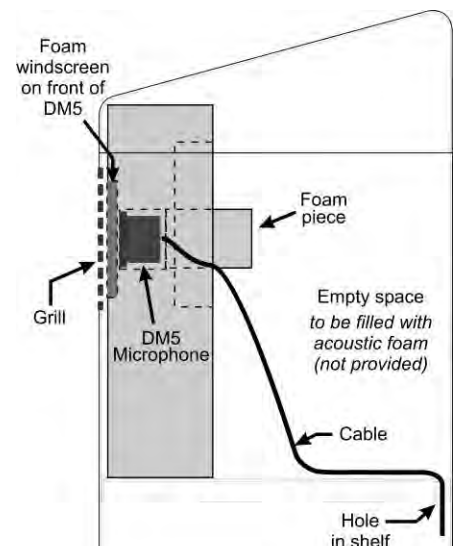


Figure 18. Microphone unit in typical speaker post installation

3.3.2 Install SP10 Speaker

- Strip approximately 1 inch (25.4 mm) of insulation from the end of the speaker cable, and ¼ inch (6.35 mm) of insulation from each of the two cable wires, but do not tin the wires. Connect the speaker cable wires to the connector plug as shown in Figure 19.
- Insert the connector plug into the connector on the speaker as shown in Figure 19.

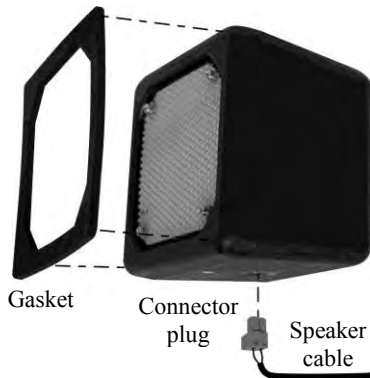


Figure 19. SP10 with gasket and cable connector plug

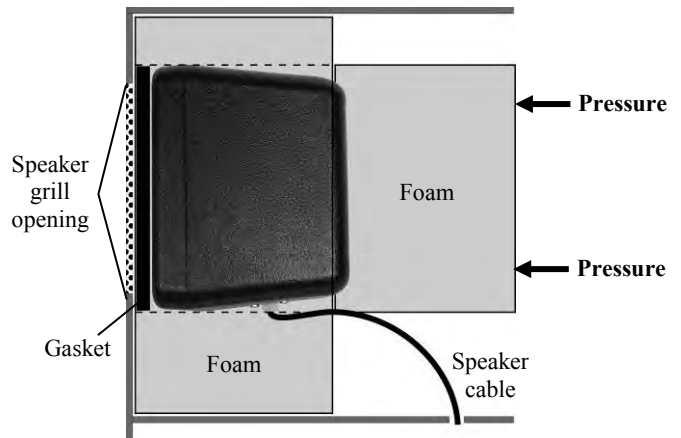


Figure 20. SP10 in speaker post, menu board or enclosure

If not using the optional mounting brackets:

- Peel the paper off the self-adhesive gasket, and press the adhesive side of the gasket against the front of the speaker in the position shown in Figure 19.
- Position the speaker inside the speaker post or menu board, with the gasket centered against the inside of the speaker grill as shown in Figure 20. The cable connector can be on the bottom or on either side. Align the opening in the gasket with the grill opening.
- Remove both inserts from the molded foam enclosure and place the foam enclosure around the speaker. Trim foam with serrated knife if necessary. Place removed foam inserts behind speaker to provide pressure to speaker, to ensure a good gasket seal against the speaker grill opening.

If using the optional mounting brackets:

- Attach the brackets to the screw inserts on the sides of the speaker unit with the two Phillips (crosspoint) screws provided as shown in Figure 21.



Figure 21. Attach brackets to speaker

- Hold the front of the speaker centered against the speaker grill of the menu board or speaker post. Mark the menu board or speaker post through the open holes in each of the two mounting brackets on the speaker, and set the speaker aside. Drill holes at the two marked spots, approximately the same size as the holes in the speaker mounting brackets.
- Peel the paper off the self-adhesive gasket, and press the adhesive side of the gasket against the front of the speaker in the position shown in Figure 19.
- Hold the speaker inside the speaker post or menu board, with the gasket against the speaker grill and the holes in the mounting brackets over the two drilled holes.
- From outside the speaker post or menu board, place the two washers on the enclosed security screws, and insert the screws through the two drilled holes. Inside the speaker post or menu board, place the locking nuts on the security screws. Tighten the nuts on the screws only enough to provide a good seal between the gasket and the enclosure.
- Place foam around the sides and back of the speaker as shown in Figure 20.

3.4 Optional External Vehicle Detector Installation

- If an external type vehicle detector will be used, install it according to its own installation instructions. Connect it to the base station according to the appropriate wiring diagram in [Figures 26 through 36](#). Note that the connections are different for internal and external vehicle detectors.
- For an external vehicle detector in Lane 1, route a cable from the detector's output to the J6 connector on the audio board in the EOS|HD base station. For an external vehicle detector in Lane 2, route a cable from the detector's output to the J14 connector on the audio board.
- Remove 4 inches (100 mm) of outer insulation from the end of the cable at the base station, and strip about ¼ inch (6 mm) of insulation from each of the color coded wires coming from the cables.
- Connect the color-coded wires to connector J6 and/or J14, pins 3 and 5 for negative vehicle detection according to the wiring diagrams in [Figures 26 through 36](#). Be sure the wires are fully inserted into each connector plug to prevent shorting the wires.

3.5 Optional HME Vehicle Detector Board (VDB) Installation

To install an HME VDB in the base station, follow the instructions below.

Note: In tandem systems, two VDBs will be installed in the base station, one at the “VDB LANE 1” position for Order Point #1, and one at the “VDB LANE 2” position for Order Point #2.

- Open the base station by pushing down on the latches on top of the cabinet and VERY CAREFULLY guiding the top of the cover toward you and downward.
- Position the three holes in the VDB over the three plastic standoffs at the upper right side, inside the base station, in the position shown on the respective wiring diagram in [Figures 26 through 36](#). Press on the VDB until the tips of the three standoffs snap through the holes in the board.

If there is a switcher board, connect the cable assembly enclosed with the VDB to the P1 connector on the vehicle detector board, and the other end to the J6 connector on the respective LANE 1 or LANE 2 switcher board as shown on the wiring diagrams in [Figures 26 through 36](#).

If there is no switcher board, connect the cable assembly to the P1 connector on the vehicle detector board, and the other end to the J10 connector (or J20 for Lane 2) on the audio circuit board as shown in the wiring diagrams in [Figures 26 through 36](#).

- Route a cable from the underground loop(s) to the TB1 terminal block on the Vehicle Detector Board(s).
- Close the cover on the base station, and lock it by pushing until it latches.

4. BASE STATION SETTINGS

4.1 Settings Status

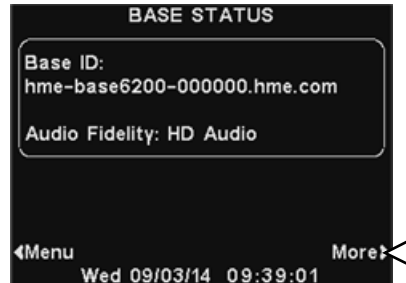
The **LANE STATUS** display shows current, lane-related status information. It also lists the HME Technical Support toll-free phone number to call for service. The date and time are shown at the bottom of the screen.



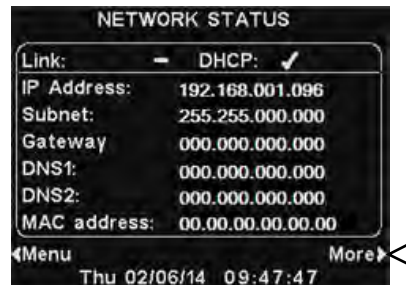
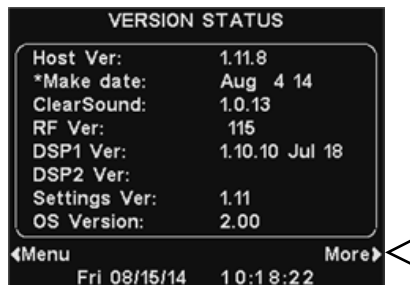
Note:

In multiple-lane operations, the **LANE STATUS** display shows **Vehicle detection** for **L1** (Lane 1) and **L2** (Lane 2), and **Lane Config** shows the lane configuration setting. The **Dedicated** mode ✓(on) or -(off) setting is also shown.

To view additional system status, press the **More** button at the bottom-right of the **LANE STATUS** display. The information on each of the **STATUS** displays show other base station information needed to operate the system on a network and to identify its version data.



To view the **MAIN MENU**, which provides access to all of the system's settings, press the **Menu** button at the bottom-left of any **STATUS** display.



4.2 Basic Installer Setups

To access the Installer Setup mode, you must have an installer password. If you have an installer password, proceed as follows:

Press the **Menu** button on the **LANE STATUS** display to access the **MAIN MENU**.

Press the **More** button on the **MAIN MENU** to access the **ADVANCED MENU**.



Press the **Installer setup** button on the **ADVANCED MENU** to access the **ENTER INSTALLER PASSWORD** display.



Enter the first character of the 4-digit password in the highlighted box in the **Enter Password** field by pressing the **+** button to enter alphabetic characters, or the **-** button to enter numbers. Press the **▶** button to move the highlighted box to the next position to the right. Repeat this procedure until all 4 digits of the password are entered, and then press the **Continue** button to access the **INSTALLER SETUP** display.

Note: If you make a mistake, you can use the **◀** and **▶** buttons to move the highlighted box to the necessary position and change the character entered there, or press the **Clear all** button to clear all entries and start over.

If you enter an incorrect password and press the **Continue** button, you will see the message “Invalid password, try again.” You can then re-enter the password. If you enter an incorrect password 3 times, you will be locked out for 5 minutes, after which you can try again.

You can now proceed to viewing and editing the following installer settings from the **INSTALLER SETUP** display.



Note:

In multiple-lane configurations, the **INSTALLER SETUP** display includes **Split B** settings, as well as other lane-configuration settings which are not shown here. These settings are explained in the [Appendix](#).

4.2.1 Lane Configuration

To set up the base station for the appropriate drive-thru lane configuration, press the **Configure Lane** button on the **INSTALLER SETUP** display to select **Single**, **Single/A2**, **Dual/Y** or **Tandem**. If you change this setting, you must press the **Back** button for the base to automatically reset itself and save the setting.



Note: If the base station is a single-lane-only base station, only **Single** and **Single/A2** options will be shown.

If the base is configured to **Dual/Y** or **Tandem** modes, there are a number of settings that become available for both Lanes 1 and 2, that are displayed as such.

For multiple-lane operations, see [Appendix](#).

- **Single** lane configurations support only one lane, speaker post and ceiling speaker.
- **Single/A2** configurations operate as a single lane base, but allow store operators to use A2 as an alternate channel for in-store communication.
- **Dual/Y** configurations support two lanes, two speaker posts and two ceiling speakers. (Only available with dual-lane bases)
- **Tandem** configurations support a single lane with two speaker posts located in line with each other. (Only available with dual-lane bases)

4.2.2 Auto-Hands-Free

In the Auto-Hands-Free (AHF) mode, transmission and reception are activated automatically when a customer arrives at the menu board or speaker post. Communication is transmitted and received at the same time, as in a normal telephone conversation.

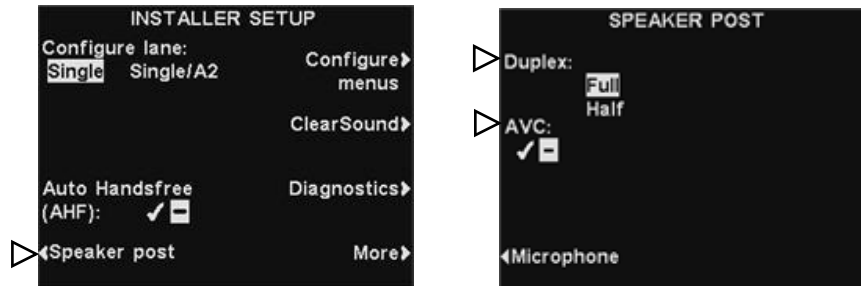
To set up the system to allow AHF operation, press the **Auto Handsfree** button on the **INSTALLER SETUP** display and select ✓(on). To turn AHF off, select –(off). If you change this setting, you must press the **Back** button for the base to automatically reset itself and save the setting.



Note: Auto Handsfree is also a headset function. After selecting ✓(on) for the AHF function on the base, you must also set the headset(s) to the AHF mode before AHF will work. Refer to sections [6.3 for single lane](#), [6.4 for dual/y lanes](#), and [6.5 for tandem lane headset AHF settings](#).

4.2.3 Speaker Post

Select **Speaker post** on the **INSTALLER SETUP** display to access the **SPEAKER POST** display, to make the necessary outside speaker/microphone settings.



Note:

In multiple-lane configurations, the **SPEAKER POST** display will be divided by Lanes. Settings will be similar to those shown for single lane.

Press the **Duplex** button to select **Full** or **Half** duplex operation.

Press the **AVC** button to select (on) or (off) for AVC (Automatic Volume Control). When there is excessive outside noise, the level of the order taker's voice in the speaker will be adjusted up. When it is quiet in the drive-thru area, the level will be adjusted down.

Press the **Microphone** button to make the following outside microphone settings.



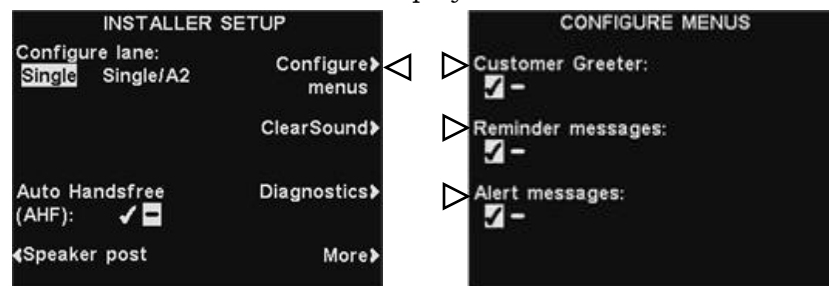
Select the type of microphone installed in the speaker post by pressing the **Microphone** button repeatedly until that microphone is highlighted.

Select the typical distance from the microphone to the vehicle in the drive-thru lane by pressing the **Distance to vehicle** button repeatedly until the correct distance is highlighted.

To save the setting, press the **Back** button.

4.2.4 Configure Menus

The **Configure menus** setting provides security for Message Center settings, so no one other than managers can make changes to them. To do this, select **Configure menus** on the **INSTALLER SETUP** display.



On the **CONFIGURE MENUS** display, press the respective button to highlight (on) or (off). If is selected, that category of messages will be deleted from the **MESSAGE CENTER MENU**, thereby not allowing anyone access to those Message Center settings unless a manager resets the respective **CONFIGURE MENUS** setting to highlight .

To save the setting, press the **Back** button.

4.2.5 ClearSound

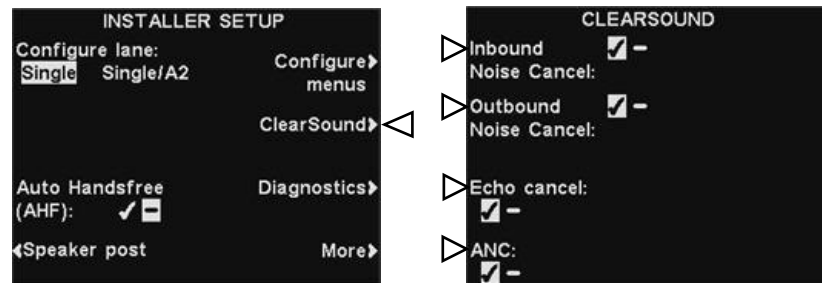
ClearSound reduces environmental noises to improve the intelligibility of incoming voice transmission from the customer at the outside speaker. Press the **ClearSound** button on the **INSTALLER SETUP** display to access the **CLEAR SOUND** display.

To turn ClearSound noise cancellation on or off, press the **Inbound** or **Outbound Noise cancel** button to highlight ✓(on) or –(off).

Echo cancellation reduces the operator's voice returning from the outside speaker to the headset as an echo. To turn echo cancellation on or off, press the **Echo cancel** button to highlight ✓(on) or –(off).

Note: **Echo cancel** will automatically be turned –(off) if half-duplex has been selected.

ANC (Automatic Noise Control) senses when a customer is speaking into the outside microphone, and reduces the incoming audio level when a customer is not speaking. To turn ANC on or off, press the **ANC** button to highlight ✓(on) or –(off).



Note: In multiple-lane configurations, the **CLEAR SOUND** display will be divided by Lanes. Settings will be similar to those shown for single lane.

To save the setting, press the **Back** button.

4.2.6 Diagnostics

To have the EOS|HD perform diagnostic tests of various functions, press the **Diagnostics** button on the **INSTALLER SETUP** display.



Note: Diagnostics are typically performed with guidance from HME Technical Support.

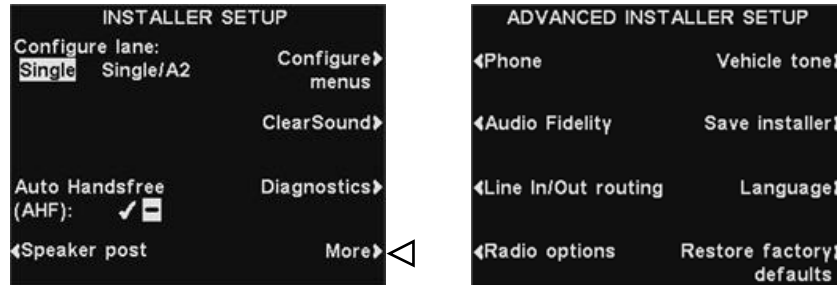
On the **DIAGNOSTICS** display, you can press the **More** button to see additional tests on the **ADVANCED DIAGNOSTICS** display.



On the left side of either display, press the button for the test to be performed.

4.3 Advanced Installer Setups

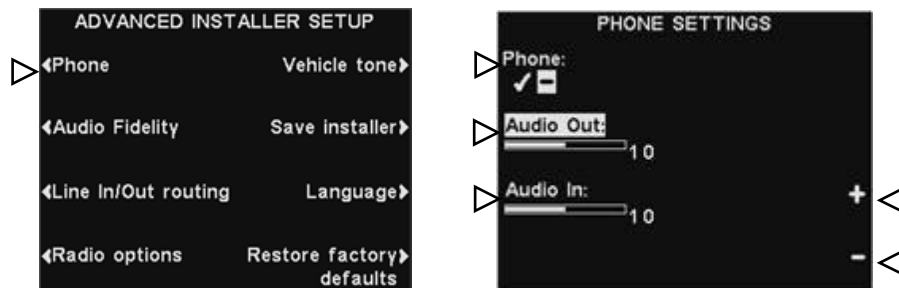
To perform the following advanced installer setups, press the **More** button on the **INSTALLER SETUP** display to access the **ADVANCED INSTALLER SETUP** display.



4.3.1 Phone

If a telephone is connected to the base station, to be used for telephone orders, the system must be set up for telephone operation. To do this, on the **ADVANCED INSTALLER SETUP** display press the **Phone** button. On the **PHONE SETTINGS** display, select (on). If a telephone will not be used, select (off).

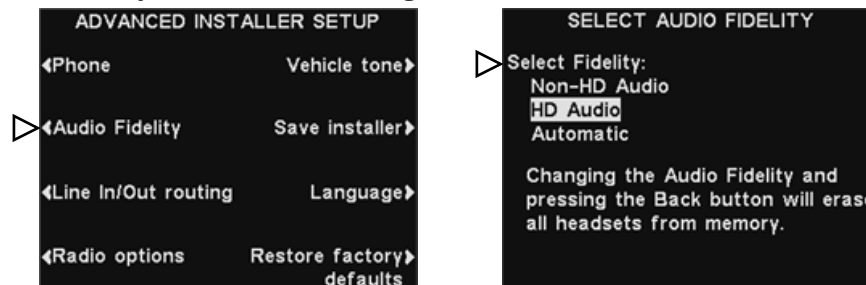
To adjust the telephone outbound or inbound audio level, press the **Audio Out** or **Audio In** button and then press the **+** or **-** button to set the desired level.



Note: When setting the **Phone** function to (on), you must also select a **Phone Headset** to receive the calls. See [Phone Headset](#) under Store Settings, [section 4.5.7](#). An optional Telephone Interface is also required. See Figure 36, Optional Equipment Wiring Diagram.

4.3.2 Audio Fidelity

If you are installing a new base station where all existing headsets are all either **Non-HD** or **HD Audio** (default), you must select the respective audio fidelity. To do this, select **Audio Fidelity** on the **ADVANCED INSTALLER SETUP** display and then, on the **SELECT AUDIO FIDELITY** display, press the **Select Fidelity** button to make the appropriate selection. If you select **Automatic** audio fidelity, the fidelity of the base will be set by the first headset registered.



To save the setting, press the **Back** button.

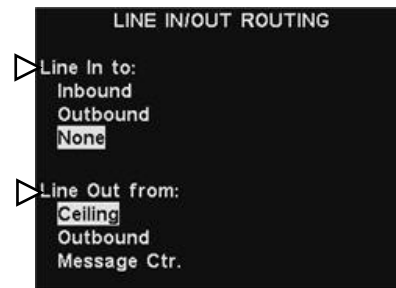
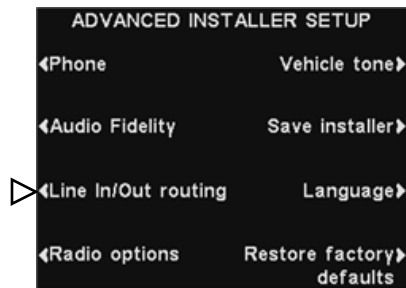
CAUTION: Making this change will require re-registering all headsets.

4.3.3 Line In/Out Routing

If an external audio source is connected to the base station line input, on the **ADVANCED INSTALLER SETUP** display press the **Line In/Out routing** button.

Press the **Line In to:** button to select **Inbound** for the audio from the external source to be heard in headsets and ceiling speakers, or wherever inbound audio would normally be heard. Select **Outbound** for the audio to be heard at the outside speaker.

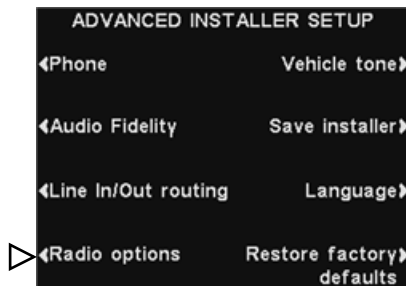
If any device (e.g. recorder) is connected to the base station line output, press the **Line Out from:** button to select whether the audio from the **Ceiling** speaker, **Outbound** audio to the outside speaker, or messages from the **Message Center** will be routed to the device connected to the Line Output.



Note:
In multiple-lane configurations, the **LINE IN/OUT ROUTING** display will be divided by Lines. Settings will be similar to those shown for single lane.

4.3.4 Radio Options

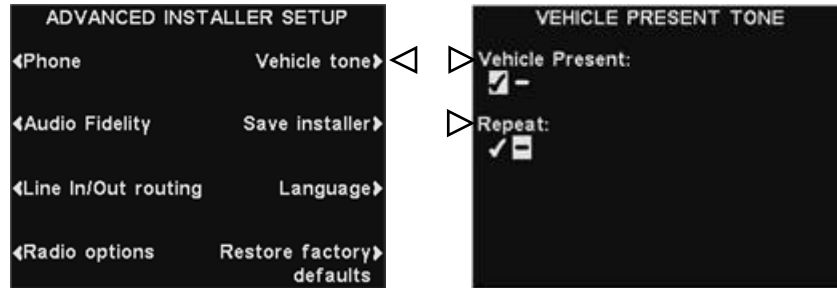
DO NOT CHANGE. Leave **RADIO OPTIONS** at factory default settings shown below.



4.3.5 Vehicle Tone

To set up an alert tone to be heard in all headsets when a vehicle arrives in the drive-thru lane, press the **Vehicle tone** button on the **ADVANCED INSTALLER SETUP** display, and then, on the **VEHICLE PRESENT TONE** display, press the **Vehicle Present** button to select ✓(on). Select –(off) to cancel the alert tone.

To have the alert tone repeated at 3-second intervals, until the Order Taker responds to the customer, press the **Repeat** button and select ✓(on). Select –(off) to cancel the repeating alert tone, to have the tone sounded only once when a vehicle arrives.

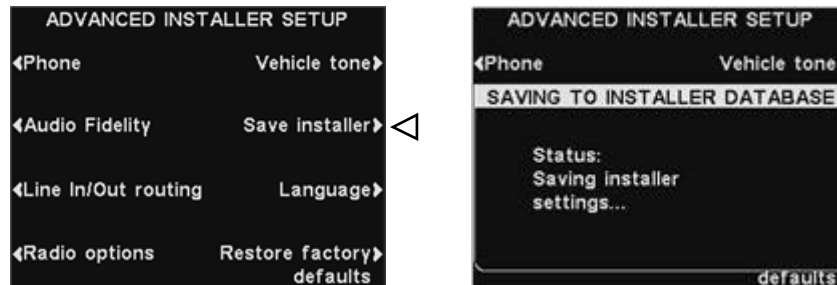


Note:

In multiple-lane configurations, the **VEHICLE PRESENT TONE** display will be divided by Lanes. Settings will be similar to those shown for single lane.

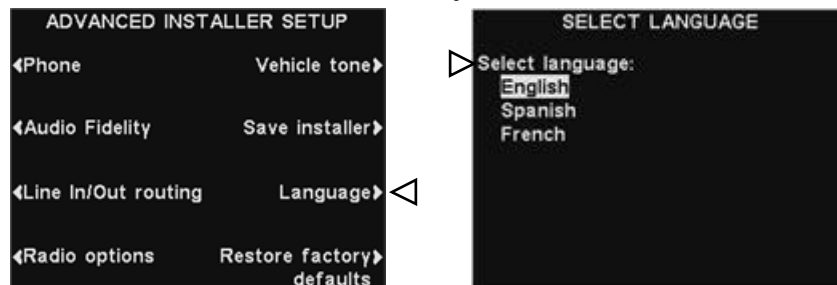
4.3.6 Save Installer Settings

To save all the settings you have made, press the **Save installer** button on the **ADVANCED INSTALLER SETUP** display. Your settings will be saved as Installer Settings. It is highly recommended that you perform this function at the end of the installation, so the user will have a backup of all installation specific settings.



4.3.7 Language Selection

To select the language to be used, press the **Language** button on the **ADVANCED INSTALLER SETUP** display. On the **SELECT LANGUAGE** display, press the **Select language** button to highlight **English**, **Spanish** or **French**, and then press the **Back** button. The base will automatically reset to cause the selected language to take effect.



4.3.8 Restore Defaults

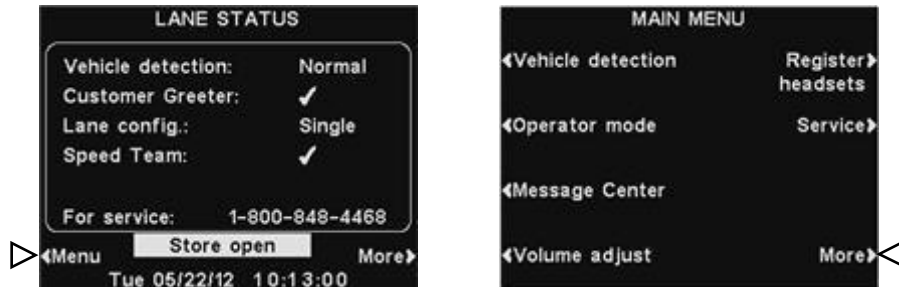
To erase all your installer settings and return the base station to its factory settings, press the **Restore factory defaults** button on the **ADVANCED INSTALLER SETUP** display, and then, if you are sure you want to change all settings back to factory defaults, press the **Default** button on the **RESTORE FACTORY DEFAULTS** display. The base will automatically reset to cause the factory settings to take effect.



CAUTION: If the base station is returned to its factory default settings, it will be set for English language operation. Refer to [Language Selection](#) to change the language back to Spanish or French.

4.4 Network Settings

If the base station is connected to a computer network for remote access, you must enter the network data based on information from your IT support. To do this, select the **Menu** button on the **LANE STATUS** display and then select **More** on the **MAIN MENU**.



Press the **Network** button on the **ADVANCED MENU** display, to open the **NETWORK SETTINGS** display.



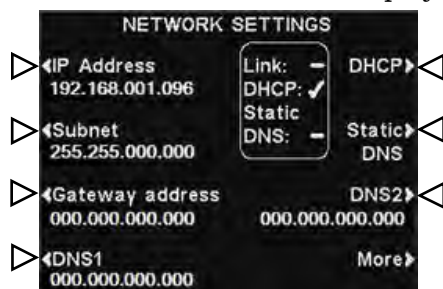
Note:

Some network settings changes will cause the base to automatically reset.

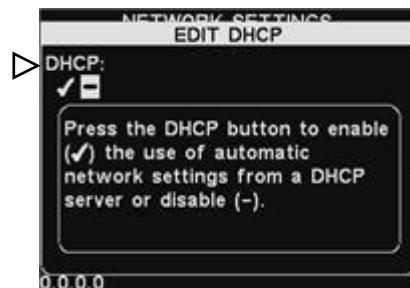
4.4.1 Basic Network Settings

On the **NETWORK SETTINGS** display, press the button for each setting you want to change. A display will open, where you can make the desired changes.

The network settings are explained below. Press the respective button on the **NETWORK SETTINGS** display for each setting you would like to view or change.



- **DHCP** – allows the base to automatically acquire its network settings from a DHCP server installed on the local network.



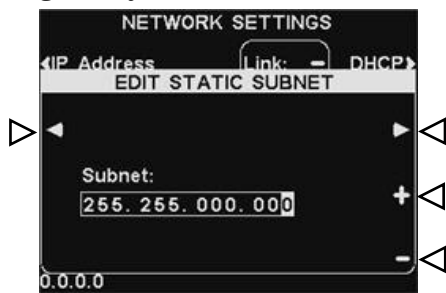
To edit this setting, press the **DHCP** button to highlight ✓(on) or -(off). If -(off) is highlighted, the base will use static network settings that you enter via the **NETWORK SETTINGS** and **ADVANCED NETWORK SETTINGS** displays.

- **IP Address** – the internet protocol address of the base, used to identify the base on the local network.



To edit this setting, press the **IP Address** button and then, on the **EDIT STATIC IP ADDRESS** display, use the ◀ and ▶ buttons to move the highlight to each number you would like to change, and press the + or - button to enter the desired number.

- **Subnet** – is a setting used by the base to identify if outgoing network packets are intended for the local network or intended to be routed to an external network via the gateway.



To edit this setting, press the **Subnet** button and then, on the **EDIT STATIC SUBNET** display, use the ◀ and ▶ buttons to move the highlight to each number you would like to change, and press the + or - button to enter the desired number.

- **Gateway address** – is a router address on the local network used to move network packets from an external network into the local network and vice-versa.



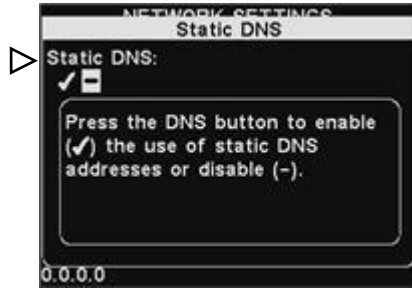
To edit the Gateway address, press the **Gateway address** button and then, on the **EDIT STATIC GATEWAY ADDRESS** display, use the ◀ and ▶ buttons to move the highlight to each number you would like to change, and press the + or - button to enter the desired number.

- **DNS1 & DNS2** – are addresses of domain name servers that resolve host/domain names into IP addresses. The DNS servers are used when sending email to a mail server identified by its name.



To edit the DNS address, press the **DNS1** or **DNS2** button and then, on the **EDIT DNS ADDRESS** display, use the ◀ and ▶ buttons to move the highlight to each number you would like to change, and press the + or - button to enter the desired number.

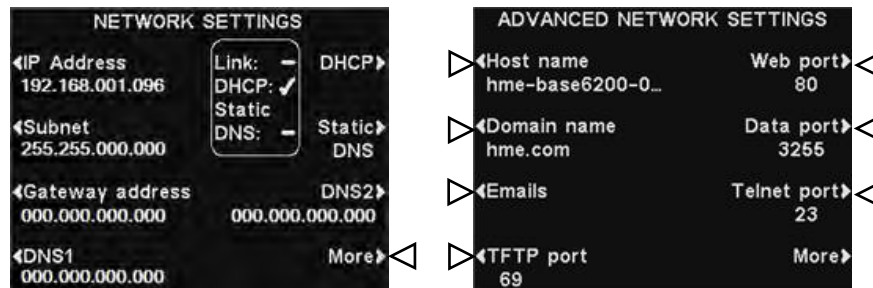
- **Static DNS** – Typically, DNS addresses are automatically provided by the DHCP server, if the **DHCP** is enabled and **Static DNS** is disabled –(off). If **Static DNS** is enabled, ✓(on), it overrides the DNS1 and DNS2 addresses supplied by the DHCP server, in favor of the static addresses edited on these menus.



To enable/disable **Static DNS**, press the **DHCP** button, and then press the **Static DNS** button to highlight ✓(on) or –(off).

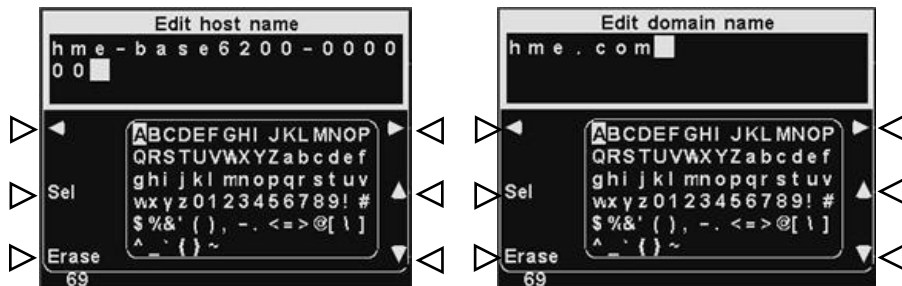
4.4.2 Advanced Network Settings

For additional advanced network settings, press the **More** button on the **NETWORK SETTINGS** display.



The advanced network settings are explained below. Press the respective button on the **ADVANCED NETWORK SETTINGS** display for each setting you would like to view or change.

- **Host name / Domain name** – These names combine to uniquely identify the base by name, on the network. This name can be used to access the base over the network instead of using the IP address. This feature only works if **DHCP** is enabled on the **NETWORK SETTINGS** display, and a DNS server is installed on the local network, and it is configured to receive updates from the DHCP server.



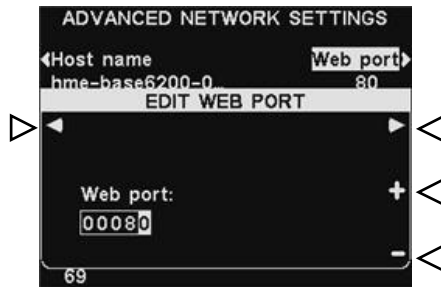
To enter or change host or domain name, press the **Edit host name** or the **Edit domain name** button on the **ADVANCED NETWORK SETTINGS** display. On the respective **Edit...** display, use the **Erase** button to clear any characters in a current name that you want to change. Use the ◀, ▶, ▲ and ▼ buttons to move the highlight to a character you would like to enter in the name, and then press the **Sel** (select) button to enter it. When you are finished, press the **Back** button to save the name.

- **Emails** – The base is capable of sending emails to store managers when alert conditions are triggered in the store. For email settings, refer to [section 4.4.3](#).
- **TFTP port** – This port is used for transferring files to the base (for updating settings and audio files) and from the base (for reading settings files only). The port value is 69, but can be changed if necessary, or set at 0 to disable the port.



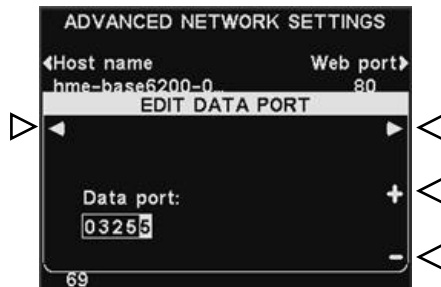
To edit the TFTP port number, on the **EDIT TFTP PORT** display, use the ◀ and ▶ button to move the highlighted box, and then use the + and - buttons to change the number in the highlighted box.

- **Web port** – This port is used for web access of the bases' web pages, to view control settings, etc. The port value is 80, but can be changed if necessary, or set at 0 to disable the port.



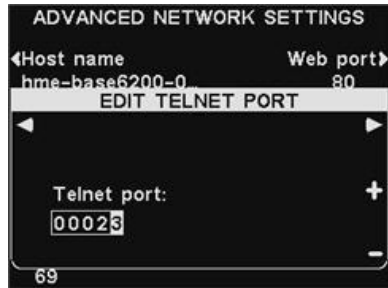
To edit the web port number, on the **EDIT WEB PORT** display, use the ◀ and ▶ button to move the highlighted box, and then use the + and - buttons to change the number in the highlighted box.

- **Data port** – This port is used for sending HME-supported commands to the base over a TCP/IC socket. The port value is 3255, but can be changed if necessary, or set at 0 to disable the port.



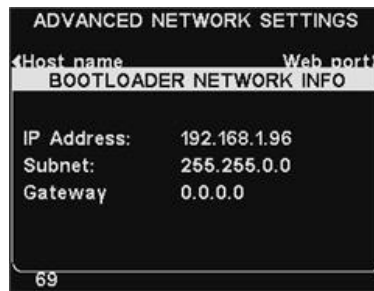
To edit the data port number, on the **EDIT DATA PORT** display, use the ◀ and ▶ button to move the highlighted box, and then use the + and - buttons to change the number in the highlighted box.

- **Telnet port** – This port is reserved for use by HME Technical Support.



- Press the **More** button on the **ADVANCED NETWORK SETTINGS** display to access the **BOOTLOADER NETWORK INFO** display.

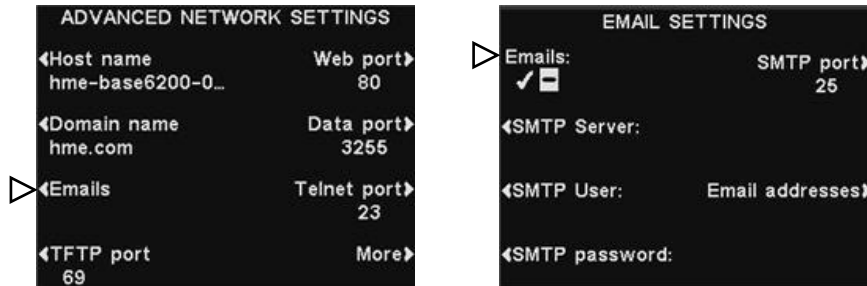
Note: Bootloader information is used by HME Technical Support.



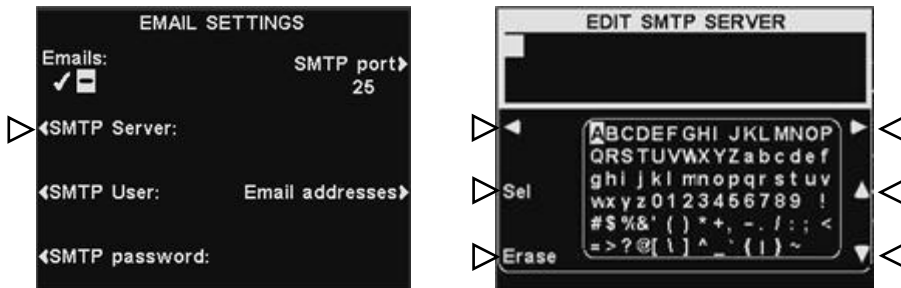
4.4.3 Email / Texting

The base is capable of sending emails to store managers when alert conditions are triggered in the store. For this feature to be used, email settings must be entered, based on network information provided by IT support.

To edit email settings, press the **Emails** button on the **ADVANCED NETWORK SETTINGS** display.

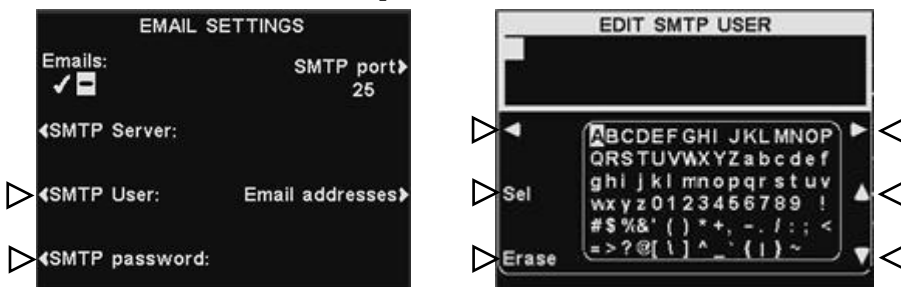


- To turn emails on or off, on the **EMAIL SETTINGS** display, press the **Emails** button to highlight ✓(on) or -(off).
- **SMTP Server** – This is the SMTP (mail) server which will convey your emails to the proper email addresses. You can either enter the IP address of the SMTP server or its domain name.



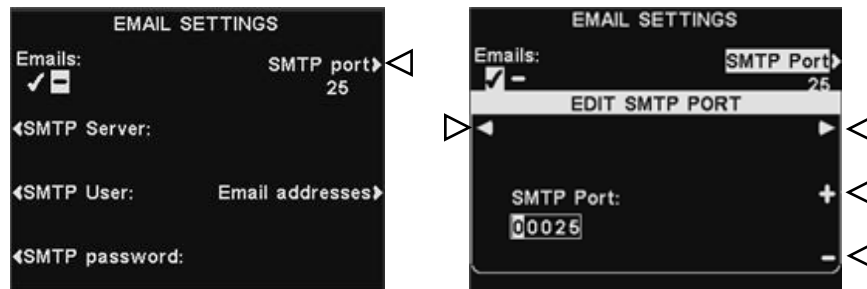
To enter or edit an SMTP server name, press the **SMTP Server** button on the **EMAIL SETTINGS** display. Use the **Erase** button to clear a current name. Use the ◀, ▶, ▲ and ▼ buttons to highlight a character you would like to enter in the name, and then press the **Sel** (select) button to enter it in the highlighted box above. When you are finished, press the **Back** button to save the name.

- **SMTP User/password** – To make email more secure, some SMTP servers will require the use of a user name or password.



To enter or edit an SMTP user name or password, press the **SMTP User** or **Password** button on the **EMAIL SETTINGS** display. Use the **Erase** button to clear a current name. Use the ◀, ▶, ▲ and ▼ buttons to highlight a character you would like to enter in the name, and then press the **Sel** (select) button to enter it in the highlighted box above. When you are finished, press the **Back** button to save the name.

- **SMTP port** – The SMTP port is usually set to 25. However, some mail servers use a different port. If it is necessary to change the SMTP port number, press the **SMTP port** button on the **EMAIL SETTINGS** display.



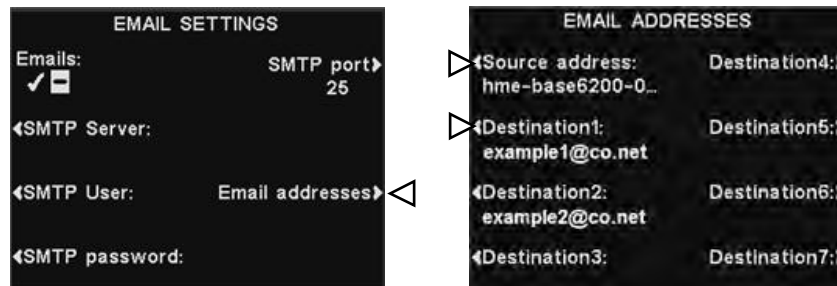
To edit the SMTP port number, on the **EDIT SMTP PORT** display, use the ◀ and ▶ button to move the highlighted box, and then use the + and - buttons to change the number in the highlighted box.

- **Email addresses** –

The **Source Address** is pre-set to **hme-base6200-XXXXXX@hme.com**.

This will be the address shown in the “From:” line on alert emails sent to selected destinations. **Destination** email addresses are those to which alert emails will be sent if **Emails** are set to ✓(on), on the **EMAIL SETTINGS** display.

To change the **Source Address** or **Destination** addresses, press the **Email addresses** button on the **EMAIL SETTINGS** display.



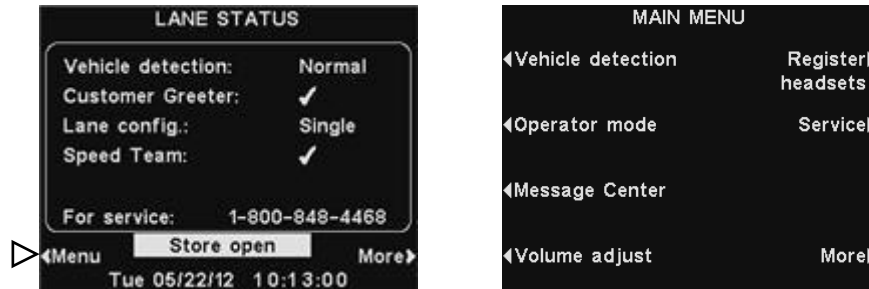
To enter or edit an email address, press the **Source Address** or any **Destination** address button on the **EMAIL ADDRESSES** display.

Use the **Erase** button to clear a current address.

Use the ◀, ▶, ▲ and ▼ buttons to highlight a character you would like to enter in the address, and then press the **Sel** (select) button to enter it in the highlighted box above. When you are finished, press the **Back** button to save the address.

4.5 User Settings

User settings are for routine drive-thru operation. After you make the initial settings, store personnel can change the settings as needed. To access the user settings, press the **Menu** button on the **LANE STATUS** display. Routine user settings are accessed from the **MAIN MENU**.

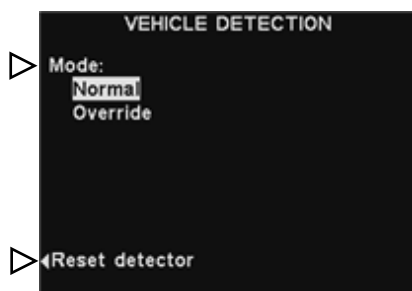


4.5.1 Vehicle Detection

To test the vehicle detector function by simulating a vehicle arrival at the speaker post or menu board, select **Menu** on the **LANE STATUS** display and then press the **Vehicle detection** button on the **MAIN MENU**.

Note: Be sure no car (or metal object) is present at the detection point.

Press the **Mode** button on the **VEHICLE DETECTION** display and select **Override**. This will cause the vehicle alert tone to be played in headsets, followed by inbound audio from the outside speaker. If enabled, a Customer Greeter message will also be played. To return to normal operation, press the **Mode** button again and select **Normal**. If you experience a problem with vehicle detection, such as the inbound audio not shutting off from the outside speaker or no alert tone when a vehicle arrives, press the **Reset detector** button on the **VEHICLE DETECTION** display, and then press the **Yes** button to reset Vehicle Detector(s).



Note: In multiple-lane configurations, the **VEHICLE DETECTION** display will be divided by Lanes. Settings will be similar to those shown for single lane.



After **Reset Completed** appears and disappears on the display, press the **Back** button to exit.

4.5.2 Operator Mode

The Operator Mode provides a **Speed Team** setting. In Speed Team operation, audio and vehicle detection are disabled at the order point.

Speed Team Operation

To set up Speed Team operation, select **Menu** on the **LANE STATUS** display and then select **Operator mode** on the **MAIN MENU**. On the **OPERATOR MODE** display, press the **Activate Speed Team** button to select ✓(on).

If you select **Activate Speed Team** ✓(on), you must later select –(off) when you want to return to normal operation.

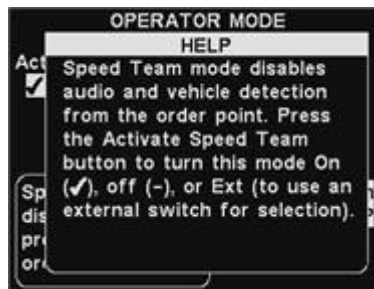
CAUTION: *With Speed Team ✓(on), many base station functions will be disabled. Vehicle arrival tones and the customer's voice from the outside speaker will not be heard during Speed Team operation. For normal order taking, the Speed Team setting should be –(off).*

For multiple-lane operations, see [Appendix, Dedicated Mode.](#)



Select **External** only if Speed Team will be activated from a remote switch.

Press the **Speed Team HELP** button for further explanation.



Note: See also [Section 6.7](#), for Speed-Team Operation.

4.5.3 Message Center

The Message Center is a central point at which messages can be set up to be triggered by various events during designated time periods, to be sent to customers at the speaker post or to crew members via headsets or ceiling speakers.

Some messages are pre-named and pre-recorded. All messages can be edited and re-recorded to meet your specific requirements. The three types of messages are described below. The table on the next page shows the names and contents of factory pre-set messages. Following the table are detailed instructions of how to set up your Message Center. At the back of this manual you will find a Message Center Worksheet, for recording your message settings.

Note: Before continuing, it is important to consider all the possible time periods during which any of the Message Center messages need to be played in the store. Up to 12 time periods can be set up. You can use the Message Center Settings Worksheet at the back of this manual. When you have determined all the time periods needed, go to the Schedule Times section of these instructions to set up the time periods for the store before continuing with the Message Center setups. The current time and date, and store open and close times should also be set before other Message Center setups.

Customer Greeter messages

Customer Greeter messages are heard by the customer when their car arrives at the speaker post. They are typically used to greet customers and inform them of promotional items. Customer Greeter messages are pre-named but not pre-recorded, with the following exceptions; the Store Closed message and Pull Forward message (only for tandem drive-thrus) are pre-recorded. All Customer Greeter messages can be renamed and recorded or re-recorded to meet store needs.

Reminder messages *

Reminder messages are heard by crew members in their headsets to remind them when routine tasks need to be done. They can also be set to play in the ceiling speaker. Reminder messages are triggered to be played at the beginning of selected scheduled time periods. There are 12 pre-named and pre-recorded Reminder messages that can be named and recorded to meet store needs. There are also 3 “Empty” messages that can be named and recorded as needed. Reminder messages can be sent to all headsets or targeted only to designated headsets.

Alert messages *

- Alert messages (audio) can be heard by crew members in their headsets to let them know about something that requires attention, such as a door being left open or a customer arriving in the store. Alert messages (audio) can be sent to all headsets or targeted only to designated headsets. Alert messages can also be set to play in the ceiling speaker. There are 6 Alert messages that can be triggered by switched inputs (relay contacts) and 14 Alert messages that can be triggered by Network commands.
- Alert messages (email/text) can also be sent to designated email recipients, smart phones and other email/texting devices with text information to let the manager know about Alert events in the store.

* Reminder and Alert Messages can be assigned either a Low or High Priority.

Low Priority – If currently playing, Low Priority messages will be terminated when any of these three events occur during play: **A** press, **B** press, car arrival. After a Low Priority message has been terminated, it will not play again until the next trigger event occurs.

High Priority – If currently playing, High Priority messages will be interrupted when either of these two events occur during play: **A** press, **B** press. After the interruption has ended, the message will attempt to play again to completion.

Customer Greeter messages are triggered by detection of vehicles in the drive-thru lane, plus time and day.

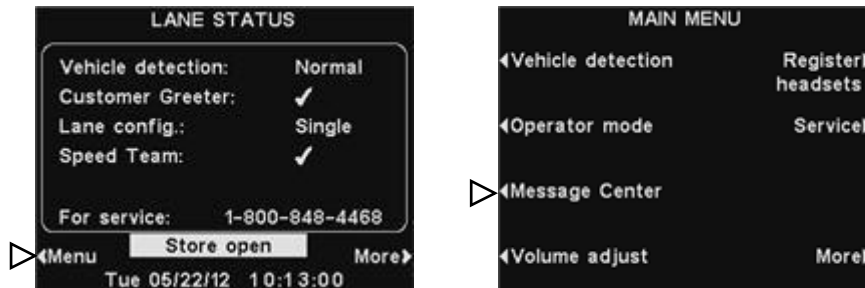
Reminder messages are triggered by time and day only.

Alert messages are triggered by input signals, plus time and day or Network events. Under **EVENT** – S# refers to a switch-triggered alert. N# refers to a Network-triggered alert.

MESSAGE CENTER MESSAGES			
	NAME	CONTENT	
CUSTOMER GREETER	All Day 1	Not pre-recorded.	
	All Day 2	Not pre-recorded.	
	Breakfast 1	Not pre-recorded.	
	Breakfast 2	Not pre-recorded.	
	Lunch 1	Not pre-recorded.	
	Lunch 2	Not pre-recorded.	
	Snack 1	Not pre-recorded.	
	Snack 2	Not pre-recorded.	
	Dinner 1	Not pre-recorded.	
	Dinner 2	Not pre-recorded.	
	Store Closed	Thank you for your visit, but we are currently closed. Please visit us again during our normal business hours.	
Pull Forward *	Hello, please pull forward to the next speaker. Thanks. * (Tandem drive-thru only)		
REMINDER	Hand Washing	Please wash your hands.	
	Sanitizer	Please change sanitizer solution.	
	DR Trash	Please check the dining room trash.	
	HACCP	Please complete the HACCP shift checklist.	
	Quality Check	Please complete the shift quality check.	
	Lot Check	Please complete a parking lot check.	
	Restroom Check	Please check the restrooms.	
	Pre-Rush	Please complete the pre-rush tasks for your workstation.	
	Post-Rush	Please complete the post-rush tasks for your workstation.	
	Headset Status	To check headset status, press and hold A2 and volume down while turning on the power.	
	Change Language	To change headset prompt language, press and hold A1 and volume down while turning on the power.	
	Hands Free ON	To turn headset hands free mode on, press and hold B and volume up while turning on the power.	
	Empty 1-3	Not pre-recorded.	
ALERT	NAME	EVENT	CONTENT
	Freezer Door	S1	The freezer door has been left open.
	Cooler Door	S2	The cooler door has been left open.
	Back Door	S3	The back door has been left open.
	Lobby Door	S4	A guest has entered the lobby.
	Empty	S5	Not pre-recorded.
	Empty	S6	Not pre-recorded.
	Empty	N1 – N14	Not pre-recorded.

1. Customer Greeter Message Settings

To set up the time periods and locations for Customer Greeter messages to be played, or to name and/or record Customer Greeter messages, press the **Menu** button on the base station **LANE STATUS** display and then, on the **MAIN MENU** press the **Message Center** button.



On the **MESSAGE CENTER MENU**, press the **Customer Greeter** button.

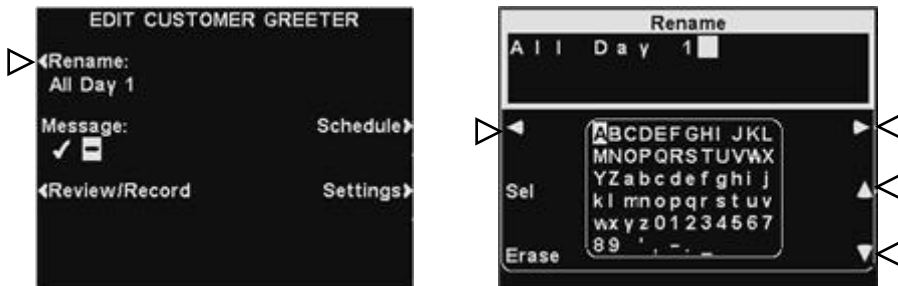


On the **CUSTOMER GREETER** display, to select a message for editing, press the **▲** (up) or **▼** (down) button to highlight the desired message.

To edit the selected message, press the **Edit** button.

Rename Message

To change the name of the selected message, press the **Rename** button on the **EDIT CUSTOMER GREETER** display.



On the **Rename** display, use the **Erase** button to clear characters in the current name to change them. Use the **◀**, **▶**, **▲** and **▼** buttons to move the highlight to a character you would like to use in the name. Use the **Sel** (select) button to enter the highlighted character in the name. When you are finished, press the **Back** button to save the new name.

For multiple-lane operations, see [Appendix, Customer Greeter Messages](#)

Turn Message On/Off



To turn the selected message on or off, press the **Message** button on the **EDIT CUSTOMER GREETER** display to highlight either ✓(on) or –(off).

Press the **Back** button to save this setting.

Review or Record Message

To review the existing selected message, or to record a new message, press the **Review/Record** button on the **EDIT CUSTOMER GREETER** display.



Note: Reviewed messages are played to a specific headset to avoid interfering with lane operations.

To listen to the existing message, press the **Review** button on the **REVIEW/RECORD MESSAGE** display. Follow instructions under **READY TO REVIEW** on the display. Press and hold the headset **B** button. The message will be played only to the headset pressing the **B** button.



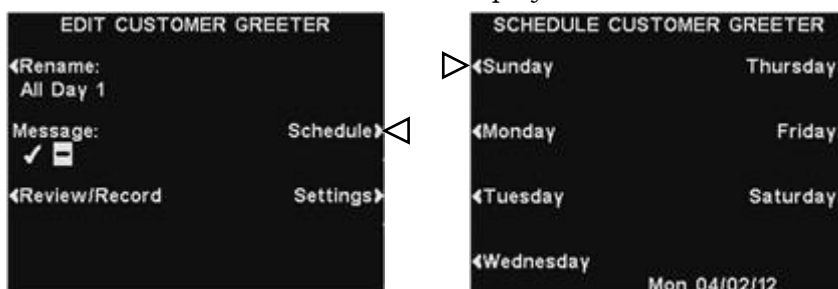
To record a new message, press the **Record** button on the **REVIEW/RECORD MESSAGE** display.



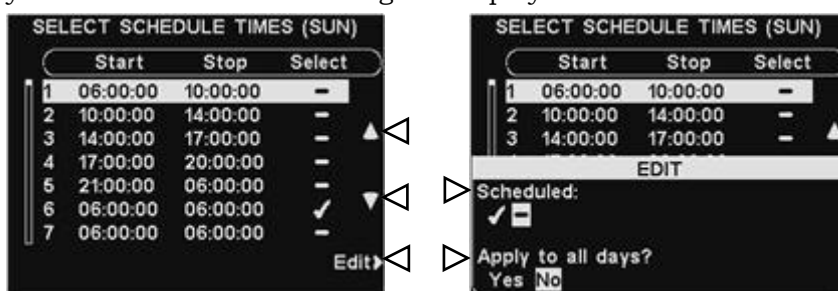
Follow the instructions under **READY TO RECORD** on the display. You can record a message up to 16 seconds long while you are pressing and holding the headset **B** button. The **Progress** indicator will show you how much time you have left. When you finish recording, release the headset **B** button and press the **Review** button on the display, and follow the instructions under **READY TO REVIEW** to confirm a successful recording.

Message Schedule

To choose the schedule for the selected message, press the **Schedule** button on the **EDIT CUSTOMER GREETER** display.



On the **SCHEDULE CUSTOMER GREETER** display, press the button for the day you want the selected message to be played.



On the **SELECT SCHEDULE TIMES** display, select the time period when you want the selected message to play by pressing the ▲(up) and ▼(down) buttons to scroll through the 12 available time periods. When the desired time period is highlighted, press the **Edit** button.

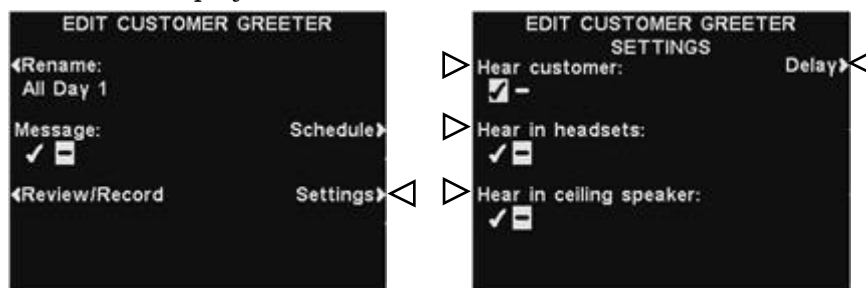
On the **EDIT** display, press the **Scheduled** button to turn the message ✓(on) or -(off) for the selected time period. If you want the message to be on or off during this time period every day, press the **Apply to all days?** button to select **Yes** or **No**. If **No** is selected, only the selected day will be affected by this change.

Press the **Back** button to save this setting.

Note: To edit the **Start** and **Stop** times for the time periods listed on the **SELECT SCHEDULE TIMES** display, go to the **MESSAGE CENTER MENU** and select **Edit schedule times**.

Message Playback Settings

To edit where the selected Customer Greeter message will be heard (in addition to the speaker post), press the **Settings** button on the **EDIT CUSTOMER GREETER** display.



Note: Customer Greeter messages are always directed to the drive-thru speaker in addition to these settings. To stop playback to the drive-thru speaker requires setting the Customer Greeter volume to **0**. See [section 4.5.4](#). For the message to be heard at the drive-thru speaker, the outbound Customer Greeter volume must be adjusted, and then checked at the speaker post.

On the **EDIT CUSTOMER GREETER SETTINGS** display, press the button corresponding to the location where you would like the selected Customer Greeter message to be heard or not heard, to highlight ✓(on) or -(off).

If you select **Hear customer:** ✓(on), you will hear the customer's voice and the Customer Greeter message in your headset. If you select **Hear customer:** -(off), you will not hear the customer's voice until the Customer Greeter message has finished playing.

The **Hear in headsets** and **Hear in ceiling speaker** settings allow you to choose whether or not to hear the selected Customer Greeter message in those locations.

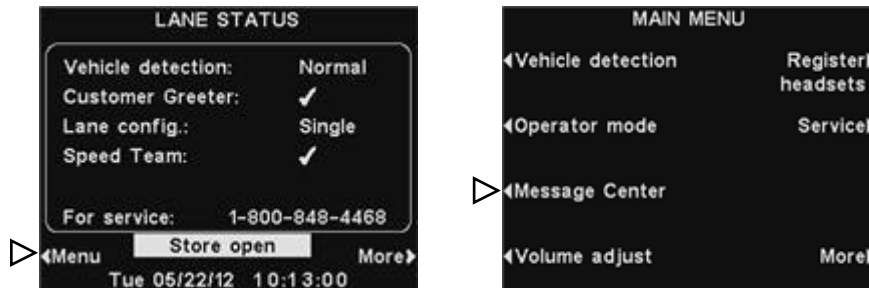
If you would like a delay after the Customer Greeter message is triggered until it begins playing, select **Delay** on the **EDIT CUSTOMER GREETER SETTINGS** display. On the **DELAY BEFORE PLAY** display, use the + and - buttons to change the number in the highlighted box, and use the ◀ or ▶ button to move the highlight to the opposite position.



When you are finished, press the **Back** button to save the setting.

2. Reminder Message Settings

To set up the time periods and locations for Reminder messages to be played, or to name and/or record Reminder messages, press the **Menu** button on the base station **LANE STATUS** display and then, on the **MAIN MENU** press the **Message Center** button.



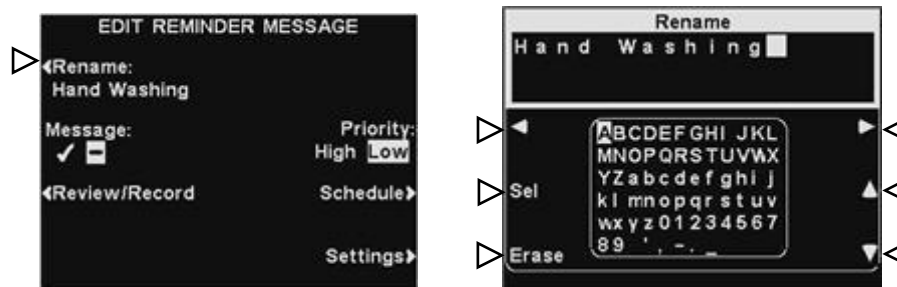
On the **MESSAGE CENTER MENU**, press the **Reminder messages** button.



To select a message on the **REMINDER MESSAGES** display, press the **▲** (up) or **▼** (down) button to highlight the desired message. To edit the highlighted message, press the **Edit** button.

Rename Message

To change the name of the selected message, press the **Rename** button on the **EDIT REMINDER MESSAGE** display.



On the **Rename** display, use the **Erase** button to clear characters in the current name to change them. Use the **◀**, **▶**, **▲** and **▼** buttons to move the highlight to a character you would like to use in the name. Use the **Sel** (select) button to enter the highlighted character in the name. When you are finished, press the **Back** button to save the new name.

Turn Message On/Off



To turn the selected message on or off, press the **Message** button on the **EDIT REMINDER MESSAGE** display to highlight either ✓(on) or –(off).

Press the **Back** button to save this setting.

Review or Record Message

To review the existing selected message, or to record a new message, press the **Review/Record** button on the **EDIT REMINDER MESSAGE** display.



Note: Reviewed messages are played to a specific headset to avoid interfering with lane operations.

To listen to the existing message, press the **Review** button on the **REVIEW/RECORD MESSAGE** display. Follow instructions under **READY TO REVIEW** on the display. Press and hold the headset **B** button. The message will be played only to the headset pressing the **B** button.



To record a new message, press the **Record** button on the **REVIEW/RECORD MESSAGE** display.



Follow the instructions under **READY TO RECORD** on the display. You can record a message up to 10 seconds long while you are pressing and holding the headset **B** button. The **Progress** indicator will show you how much time you have left. When you finish recording, release the headset **B** button and press the **Review** button on the display, and follow the instructions under **READY TO REVIEW** to confirm a successful recording.

Message Priority

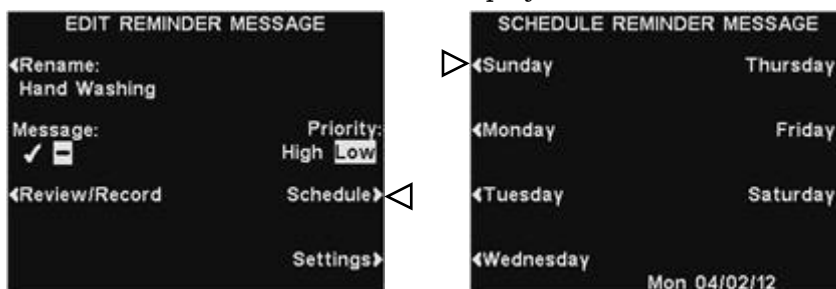
Reminder messages can be assigned a high or low priority. To set message priority, press the **Priority** button on the **EDIT REMINDER MESSAGE** display to highlight either **High** or **Low**. Press the **Back** button to save this setting.



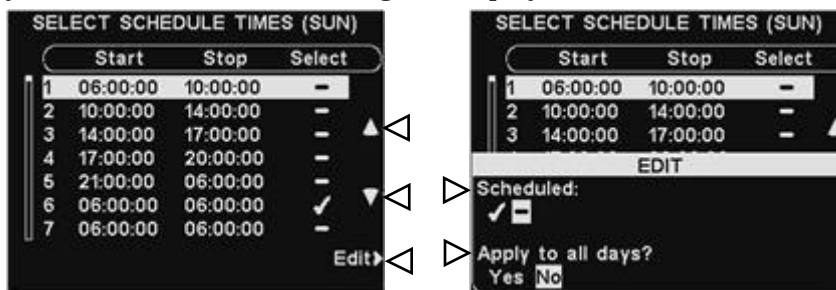
Note: If the priority is set **Low**, the message may play to completion or be terminated by either an **A** or **B** button being pressed on any headset, or by a car arrival on a given lane. If the priority is set **High**, the message will play to completion. If a high priority message is interrupted by an **A** or **B** button being pressed on any headset for a given lane, it will retry until it is able to play to completion.

Message Schedule

To choose the schedule for the selected message, press the **Schedule** button on the **EDIT REMINDER MESSAGE** display.



On the **SCHEDULE REMINDER MESSAGE** display, press the button for the day you want the selected message to be played.



On the **SELECT SCHEDULE TIMES** display, select the time period(s) when you want the selected message to play by pressing the **▲**(up) and **▼**(down) buttons to scroll through the 12 available time periods. When the desired time period is highlighted, press the **Edit** button.

Note: Reminder messages are triggered to play at the beginning of their selected schedule time period(s).

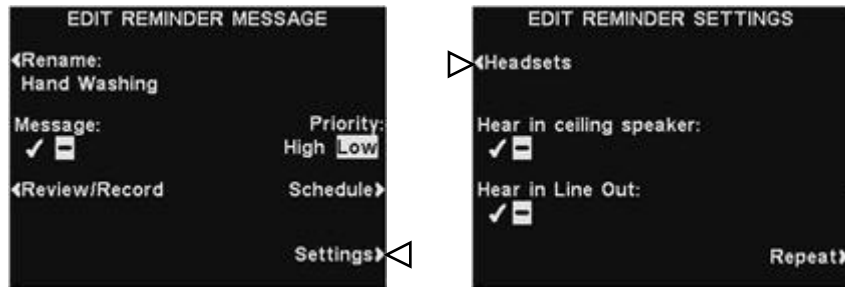
On the **EDIT** display, press the **Scheduled** button to turn the message **✓**(on) or **-**(off) for the selected time period. If you want the message to be on or off during this time period every day, press the **Apply to all days?** button to select **Yes** or **No**. If **No** is selected, only the selected day will be affected by this change.

Press the **Back** button to save this setting.

Note: To edit the **Start** and **Stop** times for the time periods listed on the **SELECT SCHEDULE TIMES** display, go to the **MESSAGE CENTER MENU** and select **Edit schedule times**.

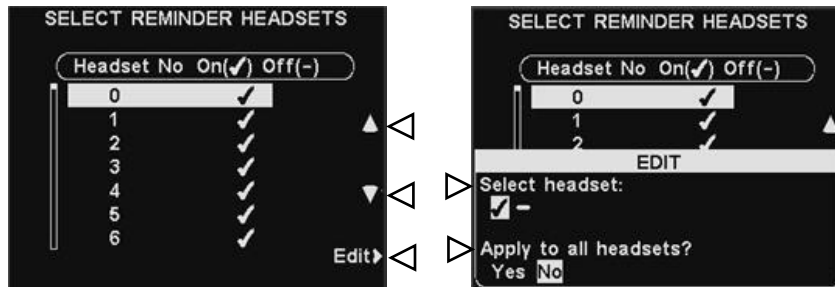
Message Playback Settings

- **Routing** – To choose where the selected Reminder message will be heard, press the **Settings** button on the **EDIT REMINDER MESSAGE** display, and then press the **Headsets** button on the **EDIT REMINDER SETTINGS** display.



For multiple-lane operations, see [Appendix, Reminder Messages.](#)

On the **SELECT REMINDER HEADSETS** display, use the ▲(up) or ▼(down) buttons to select a headset number for which you would like to turn the selected Reminder message on or off, and then press the **Edit** button.



To select/deselect the headset where the message will be heard, press the **Select headset** button on the **EDIT** display to highlight ✓(on) or –(off). To select/deselect all headsets, press the **Apply to all headsets?** button to highlight **Yes** or **No**. Press the **Back** button to save this setting.



To have the selected Reminder message heard or not heard in the ceiling speaker(s), press the **Hear in ceiling speaker** button to highlight ✓(on) or –(off).

To have the selected Reminder message heard or not heard in the line out(s), press the **Hear in Line Out** button to highlight ✓(on) or –(off).

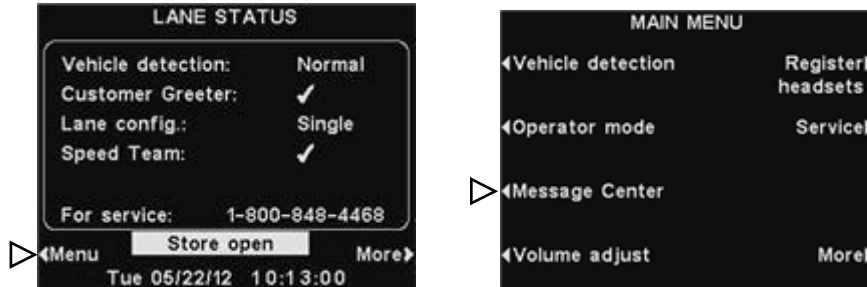
Note: After selecting ✓(on), to hear the message in the ceiling speaker or Line Out, be sure their volume is set high enough for the message to be heard. To do this, return to the **MAIN MENU** and select **Volume adjust** to make the necessary adjustments.

- **Repeats** – To have the Reminder message play repeatedly at selected intervals, press the **Repeat** button on the **EDIT REMINDER SETTINGS** display. On the **REPEAT INTERVAL** display, use the ◀ or ▶ button to move the highlight left or right for hours, minutes or seconds (HH:MM:SS) in the **Time** field, and use the + and – buttons to change the number in the highlighted box. Setting the repeat interval to all 0's disables repeats. To save this setting, press the **Back** button.

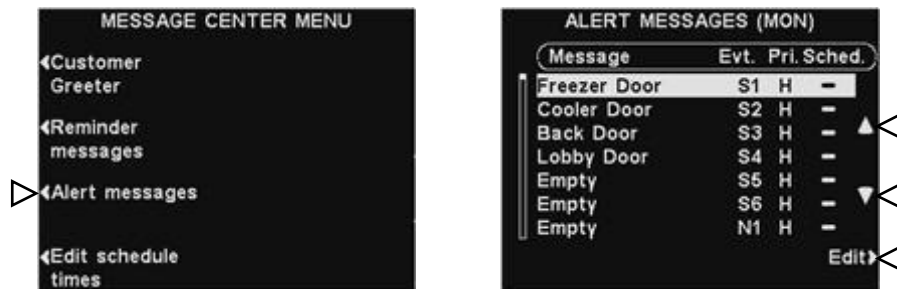


3. Alert Message Settings

To set up the time periods and locations for Alert messages to be played, or to name and/or record Alert messages, press the **Menu** button on the base station **LANE STATUS** display and then, on the **MAIN MENU** press the **Message Center** button.



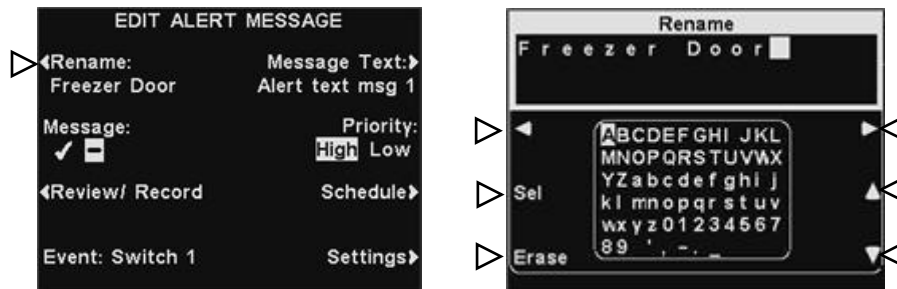
Press the **Alert messages** button on the **MESSAGE CENTER MENU**.



To select a message on the **ALERT MESSAGES** display, press the **▲**(up) or **▼**(down) button to highlight the desired message. To edit a message, select the message and press the **Edit** button.

Rename Message

To change the name of the selected message, press the **Rename** button on the **EDIT ALERT MESSAGE** display.



On the **Rename** display, use the **Erase** button to clear characters in the current name to change them. Use the **◀**, **▶**, **▲** and **▼** buttons to move the highlight to a character you would like to use in the name. Use the **Sel** (select) button to enter the highlighted character in the name. When you are finished, press the **Back** button to save the new name.

Turn Message On/Off



To turn the selected message on or off, press the **Message** button on the **EDIT ALERT MESSAGE** display to highlight either ✓(on) or –(off).

Press the **Back** button to save this setting.

Review or Record Message

To review the existing selected message, or to record a new message, press the **Review/Record** button on the **EDIT ALERT MESSAGE** display.



Note: Reviewed messages are played to a specific headset to avoid interfering with lane operations.

To listen to the existing message, press the **Review** button on the **REVIEW/RECORD MESSAGE** display. Follow instructions under **READY TO REVIEW** on the display. Press and hold the headset **B** button. The message will be played only to the headset pressing the **B** button.



To record a new message, press the **Record** button on the **REVIEW/RECORD MESSAGE** display.



Follow the instructions under **READY TO RECORD** on the display. You will have up to 10 seconds to record a message while you are pressing and holding the headset **B** button. The **Progress** indicator will show you how much time you have left. When you finish recording, release the headset **B** button and press the **Review** button on the display, and follow the instructions under **READY TO REVIEW** to confirm a successful recording

Message Priority

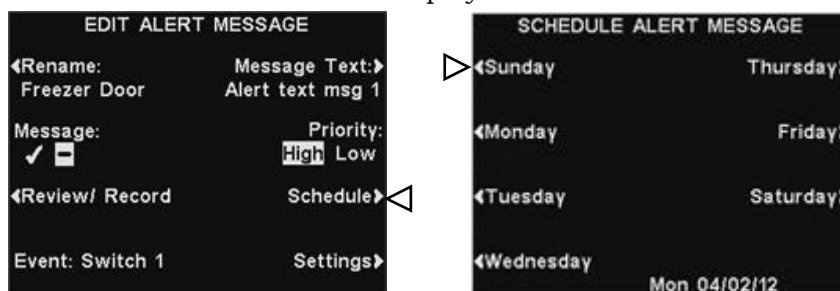
Alert messages can be assigned a high or low priority. To set message priority, press the **Priority** button on the **EDIT ALERT MESSAGE** display to highlight either **High** or **Low**. Press the **Back** button to save this setting.



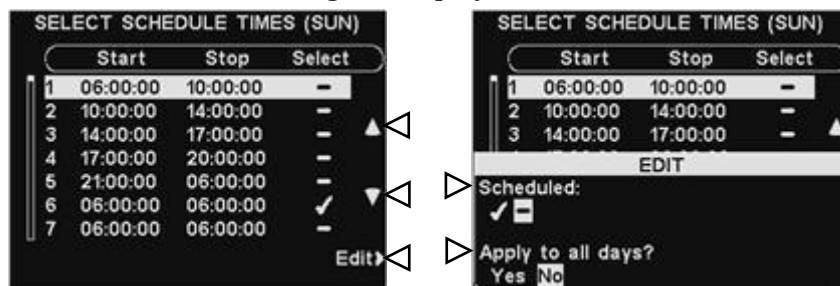
Note: If the priority is set **Low**, the message may play to completion or be terminated by either an **A** or **B** button being pressed on any headset, or by a car arrival on a given lane. If the priority is set **High**, the message will play to completion. If a high priority message is interrupted by an **A** or **B** button being pressed on any headset for a given lane, it will retry until it is able to play to completion.

Message Schedule

To choose the schedule for the selected message, press the **Schedule** button on the **EDIT ALERT MESSAGE** display.



On the **SCHEDULE ALERT MESSAGE** display, press the button for the day you want the selected message to be played.



On the **SELECT SCHEDULE TIMES** display, select the time period when you want the selected message to play by pressing the **▲**(up) and **▼**(down) buttons to scroll through the 12 available time periods. When the desired time period is highlighted, press the **Edit** button.

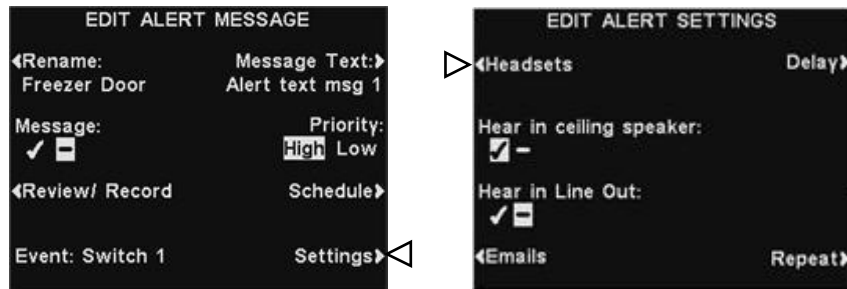
On the **EDIT** display, press the **Scheduled** button to turn the message **✓**(on) or **-**(off) for the selected time period. If you want the message to be on or off during this time period every day, press the **Apply to all days?** button to select **Yes**. If **No** is selected, only the selected day will be affected by this change.

Press the **Back** button to save this setting.

Note: To edit the **Start** and **Stop** times for the time periods listed on the **SELECT SCHEDULE TIMES** display, go to the **MESSAGE CENTER MENU** and select **Edit schedule times**.

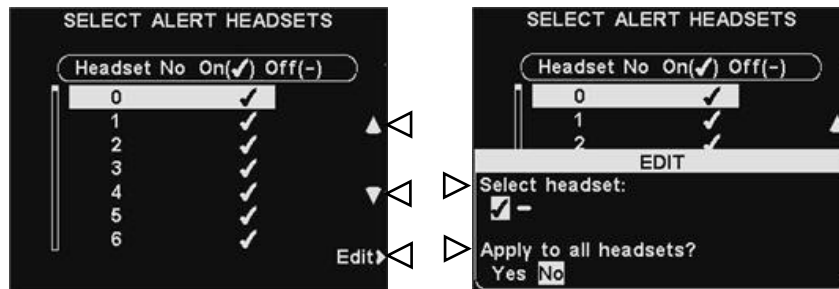
Message Playback Settings

- **Routing** – To choose where the selected Alert message will be heard, press the **Settings** button on the **EDIT ALERT MESSAGE** display, and then press the **Headsets** button on the **EDIT ALERT SETTINGS** display.



For multiple-lane operations, see [Appendix, Alert Messages](#).

On the **SELECT ALERT HEADSETS** display, use the ▲(up) or ▼(down) buttons to select a headset number for which you would like to turn the selected Alert message on or off, and then press the **Edit** button.



To select/deselect the headset where the message will be heard, press the **Select headset** button on the **EDIT** display to highlight ✓(on) or –(off). To select/ deselect all headsets, press the **Apply to all headsets?** button to highlight **Yes** or **No**. Press the **Back** button to save this setting.

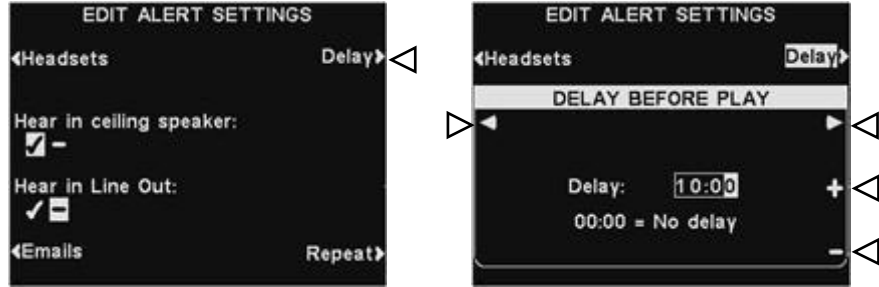


To have the selected Alert message heard or not heard in the ceiling speaker(s), press the **Hear in ceiling speaker** button to highlight ✓(on) or –(off).

To have the selected Alert message heard or not heard in the line out(s), press the **Hear in Line Out** button to highlight ✓(on) or –(off).

Note: After selecting ✓(on), to hear the message in the ceiling speaker or Line Out, be sure their volume is set high enough for the message to be heard. To do this, return to the **MAIN MENU** and select **Volume adjust** to make the necessary adjustments.

- **Delay** – To set a delay after the Alert message is triggered until it begins playing, press the **Delay** button. On the **DELAY BEFORE PLAY** display, use the ◀ or ▶ button to move the highlight left or right in the **Delay** field for minutes and seconds (MM:SS) , and use the + and - buttons to change the number in the highlighted box. To save these settings, press the **Back** button.



Note: The **DELAY BEFORE PLAY** setting applies to both audio and email-based Alert messages.

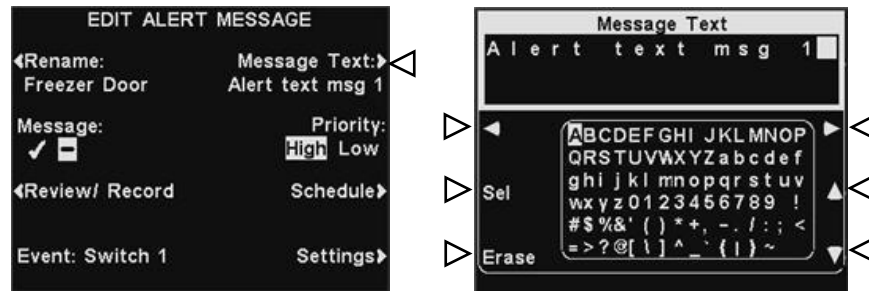
- **Repeats** – To have the Alert message play repeatedly at selected intervals, press the **Repeat** button on the **EDIT ALERT SETTINGS** display. On the **REPEAT INTERVAL** display, use the ◀ or ▶ button to move the highlight left or right for hours, minutes or seconds (HH:MM:SS) in the **Time** field, and use the + and - buttons to change the number in the highlighted box. Setting the repeat interval to all 0's disables repeats. To save this setting, press the **Back** button.



Note: The repeat interval does not apply to emails, since they are not repeated for a given message.

Alert Message Email

To compose an email message to be sent to designated recipients when the selected Alert is triggered, select **Message Text** on the **EDIT ALERT MESSAGE** display.



To edit the email text, on the **Message Text** display, use the **Erase** button to clear characters if there is a current email you want to change. Use the **◀**, **▶**, **▲** and **▼** buttons to move the highlight to a character you would like to use in the new email text. Use the **Sel** (select) button to enter the highlighted character in the message. Press the **Back** button to save the email text.

To have the selected Alert message sent to desired email addresses, press the **Emails** button on the **EDIT ALERT SETTINGS** display.



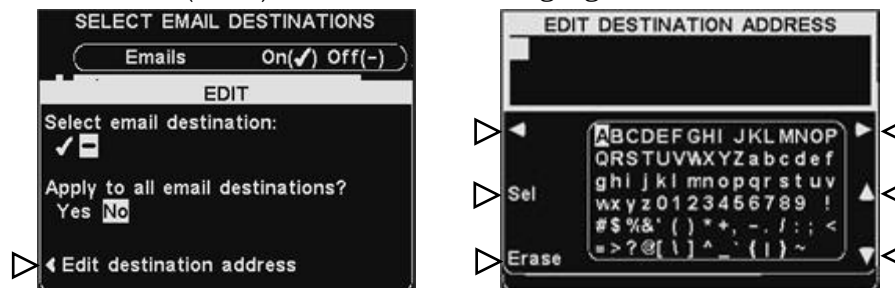
On the **SELECT EMAIL DESTINATIONS** display, use the **▲** (up) and **▼** (down) buttons to select an email address for which you would like to turn the selected Alert message on/off, and then press the **Edit** button.



To select/deselect the email destination that will receive the email message, press the **Select email destination** button on the **EDIT** display to highlight **✓** (on) or **-** (off).

To select/deselect all email destinations, press the **Apply to all email destinations?** button to highlight **Yes** or **No** and then press the **Back** button.

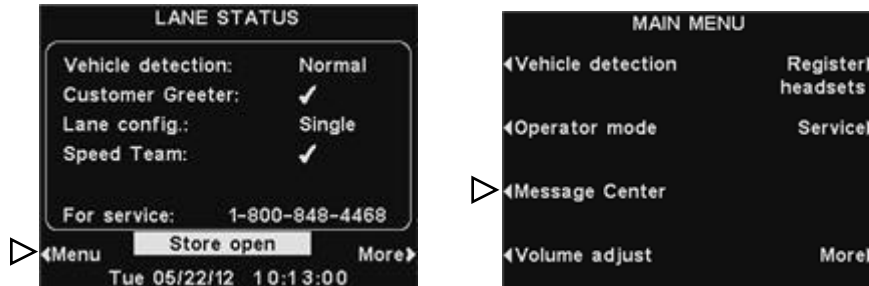
To edit the selected email address, press the **Edit destination address** button. On the **EDIT DESTINATION ADDRESS** display, use the **Erase** button to clear characters in the current email address to change them. Use the **◀**, **▶**, **▲** and **▼** buttons to move the highlight to a character you would like to use in the address. Use the **Sel** (select) button to enter the highlighted character in the address.



When you are finished, press the **Back** button to save the new email address.

4. Message Schedule Times

To set up all the time periods during each day, in which all Message Center messages can be scheduled, press the **Menu** button on the base station **LANE STATUS** display and then, on the **MAIN MENU** press the **Message Center** button.



Press the **Edit schedule times** button on the **MESSAGE CENTER MENU**.



There are 12 possible time periods.

Note: Changing these time periods will affect all Message Center message schedules. Time periods for Scheduled Outbound Volume Settings will not be affected.

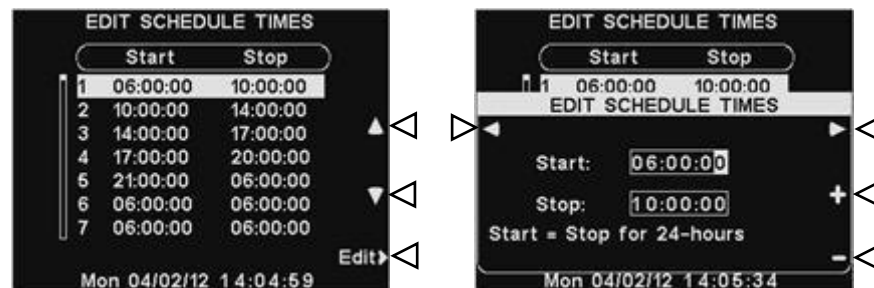
To select a time period to be edited, use the ▲(up) and ▼(down) buttons to scroll through the 12 available time periods. When the desired time period is highlighted, press the **Edit** button.

On the drop-down **EDIT SCHEDULE TIMES** display, to edit the Start or Stop time, use the ◀ and ▶ buttons to move the highlight in the **Start** or **Stop** field, and use the + and - buttons to change the highlighted numbers.

Note: Times are in 24 hour format.

example - 0500 = 5 A.M.
 1700 = 5 P.M.
 0000 = Midnight

To move from one field to the other, repeat pressing the ◀ or ▶ button until the highlight moves from one field to the other.

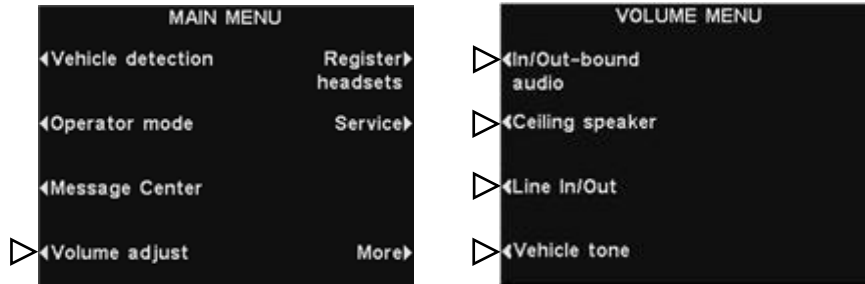


To save these settings, press the **Back** button.

4.5.4 Volume Adjustments

To adjust the volume of inbound and outbound audio, customer greeter messages, ceiling speaker and vehicle tones, or to schedule raising and lowering outbound audio levels, on the base station **LANE STATUS** display, select **Menu** and then, on the **MAIN MENU** select **Volume adjust**.

Press the button on the left side of the **VOLUME MENU** to select which volume you want to adjust.



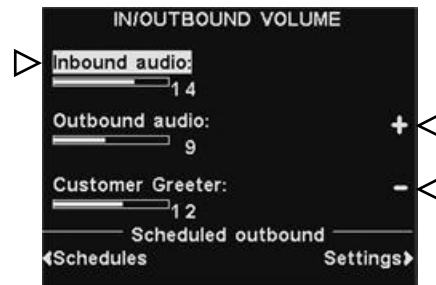
Note:

In multiple-lane configurations, the **VOLUME MENU** display will be divided by Lanes. Settings will be similar to those shown for single lane.

1. In/Out-bound Audio Volume

On the **IN/OUTBOUND VOLUME** display, select which volume you would like to adjust, and then use the + and - buttons to raise and lower the volume level. The first two settings adjust the audio level to and from the outside speaker/microphone and the third setting adjusts the level of the outbound Customer Greeter message from the Message Center. If a volume is set to **0**, that function is turned off and no audio is heard at all.

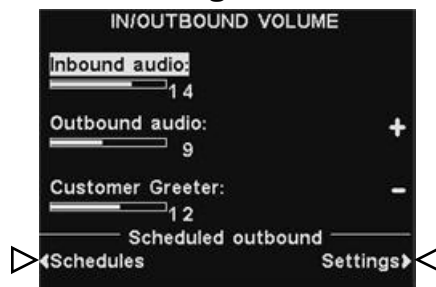
For dual-lane operations, these settings will be available for Lane 1 and Lane 2.



Note:

This **Outbound audio** level will be active whenever any scheduled outbound audio level is not enabled.

To automatically change the volume level of the outside speaker (for example, to lower the volume at night), under **Scheduled outbound**, select **Schedules** and then **Settings** as follows.



Schedules

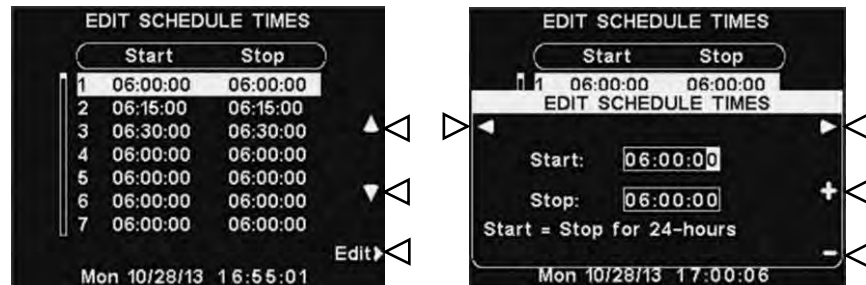
There are 7 possible time periods. These time periods will only apply to scheduled outbound volume level settings. They will not affect other message schedules.

To select a time period to be edited, use the ▲(up) and ▼(down) buttons to scroll through the available time periods. When the desired time period is highlighted, press the **Edit** button.

On the drop-down **EDIT SCHEDULE TIMES** display, to edit the Start or Stop time, use the ◀ and ▶ buttons to move the highlight in the **Start** or **Stop** field, and use the + and - buttons to change the highlighted numbers.

Note: Times are in 24 hour format. **example** - 05:00:00 = 5 A.M.
 17:00:00 = 5 P.M.
 00:00:00 = Midnight

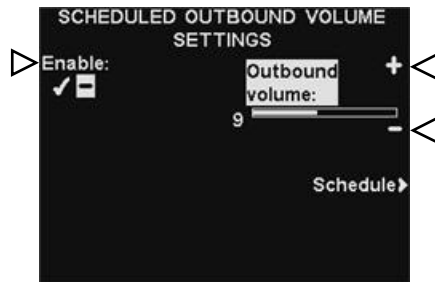
To move from one field to the other, repeat pressing the ◀ or ▶ button until the highlight moves from one field to the other.



To save these settings, press the **Back** button.

Settings

To raise or lower an outbound volume level that is active during selected days and times, use the + and - buttons for **Outbound volume**.

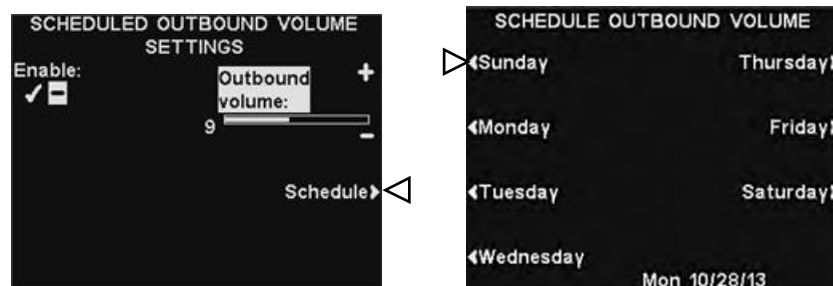


Note: This **Outbound volume** level will only be active during scheduled days and times, and only if it is enabled.

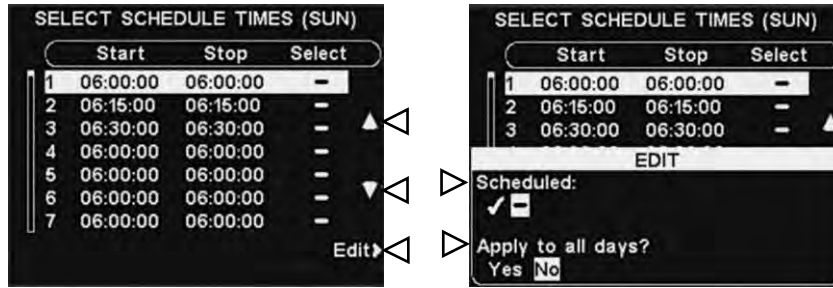
To enable this **Outbound volume** level during scheduled times, select **Enable** to highlight the ✓.

Schedule

To select days when these outbound volume settings can be enabled, on the **SCHEDULED OUTBOUND VOLUME SETTINGS** display, select **Schedule**.



On the **SCHEDULE OUTBOUND VOLUME** display, select the day you want to schedule the outbound volume setting.



On the **SELECT SCHEDULE TIMES** display, select the time period you want to apply to this day by pressing the ▲(up) and ▼(down) buttons to scroll through the 7 available time periods. When the desired time period is highlighted, press the **Edit** button.

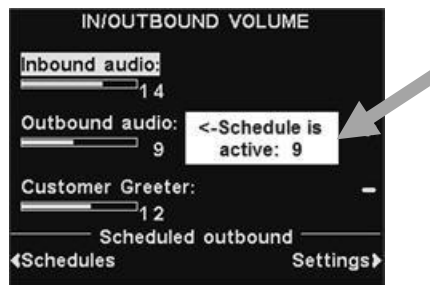
On the **EDIT** display, press the **Scheduled** button to highlight ✓(on) or - (off) for the selected time period. If you want the outbound volume setting to be on or off during this time period every day, press the **Apply to all days?** button to highlight **Yes**. If **No** is highlighted, only the selected day will be affected by this change.

If you need help, press the **Help** button.

To save these settings, press the **Back** button.

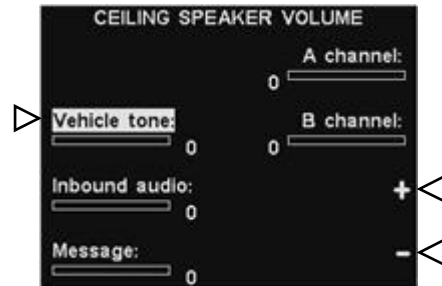
CONFIRMATION

During the day and time any outbound volume setting is scheduled, you can confirm its current activation and level by viewing it in the white box on the **IN/OUTBOUND VOLUME** display.



2. Ceiling Speaker Volume

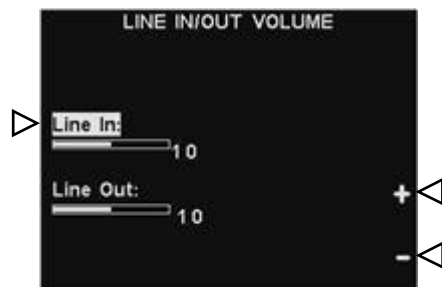
To raise and lower the volume levels heard from the ceiling speaker, select **Ceiling speaker** from the **VOLUME MENU** and then on the **IN/OUTBOUND VOLUME** display, select which volume you would like to adjust and use the + and - buttons. If a volume is set to **0**, that function is effectively turned off and no audio will be heard at all.



To save these settings, press the **Back** button.

3. Line In/Out

To raise or lower the volume level to or from any device connected to the base station line output, select **Line In** or **Line Out** on the **LINE IN/OUT VOLUME** display and then use the + and - buttons.

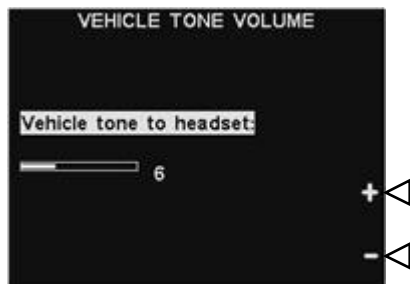


To save these settings, press the **Back** button.

4. Vehicle Tone in Headset

The **VEHICLE TONE VOLUME** setting only adjusts the level of alert tones heard in the headsets.

To raise and lower the volume level of alert tones, use the + and - buttons.



To save these settings, press the **Back** button.

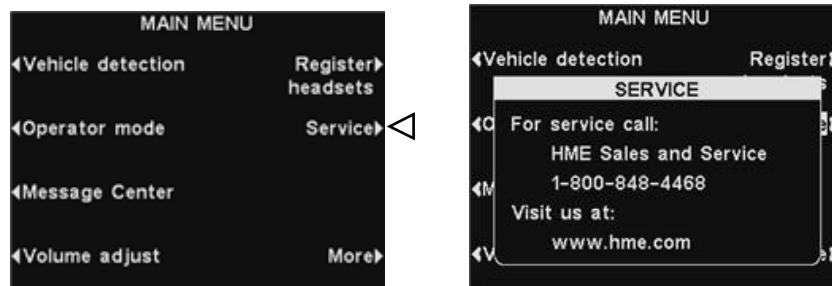
4.5.5 Register Headsets

Each headset must be “registered” to the base station, so the base station will recognize it when its power is on, and will be able to tell the difference between it and other electronic equipment operating on similar frequencies. If a headset is replaced, you must register the new one before you use it.

To register headsets to the base station, see [Section 3.1.3](#).

4.5.6 Service

For HME Technical Support contact information, select **Menu** on the **LANE STATUS** display and then select **Service** on the **MAIN MENU**.



4.5.7 Store Settings

Store settings are crucial to drive-thru operation. After you make the initial settings, they can be changed by store managers or other authorized personnel.

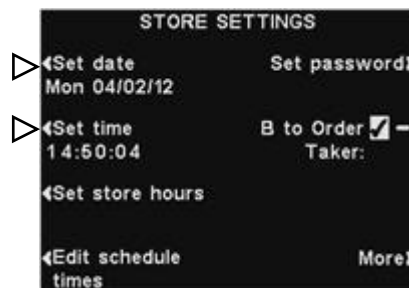
After you have made all store settings, set up a password to control access to store settings, and give the password to the store manager.

To access the **STORE SETTINGS** display, press the **More** button on the **MAIN MENU** and then press the **Store settings** button on the **ADVANCED MENU**.



Set Date or Time

To set the date or time, press the **Set date** or **Set time** button on the **STORE SETTINGS** display.



Note: All times are in 24-hour format.

On the **SET DATE** or **SET TIME** display, use the ◀ and ▶ buttons to move the highlighted box to the left and right in the **Date** or **Time** field, and use the + and - buttons to enter the desired number in the highlighted box.

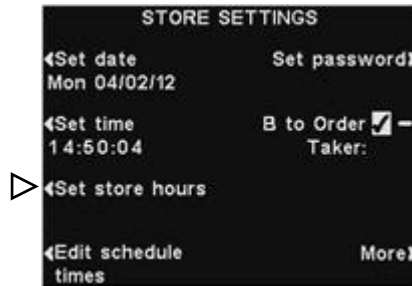
HINT! When setting the time, set it a little in advance of the known correct time and then, when the correct time matches the setting, press the **Back** button.



To save the setting and return to the **STORE SETTINGS** display, press the **Back** button.

Set Store Hours

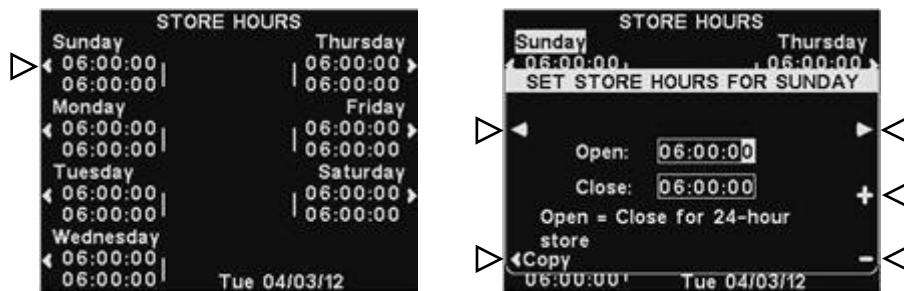
To set the store hours for any or every day, press the **Set store hours** button on the **STORE SETTINGS** display.



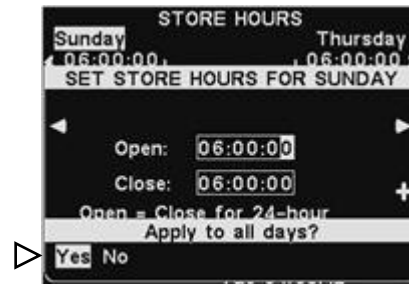
On the **STORE HOURS** display, press the button next to the day you would like to change.

On the **SET STORE HOURS** display, use the ◀ and ▶ buttons to move the highlight in the **Open** or **Close** field, and use the + and - buttons to change the highlighted numbers. To move from one field to the other, repeat pressing the ◀ or ▶ button until the highlight moves to the other field.

Note: If your store is open 24 hours, set the **Open** time the same as the **Close** time.



If you want these store hours to apply to every day, press the **Copy** button and then press the **Apply to all days?** button to highlight **Yes**. If **No** is highlighted, these store hours will apply only to the selected day.

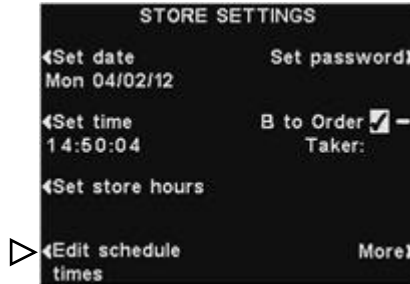


To save these settings, press the **Back** button.

Edit Schedule Times

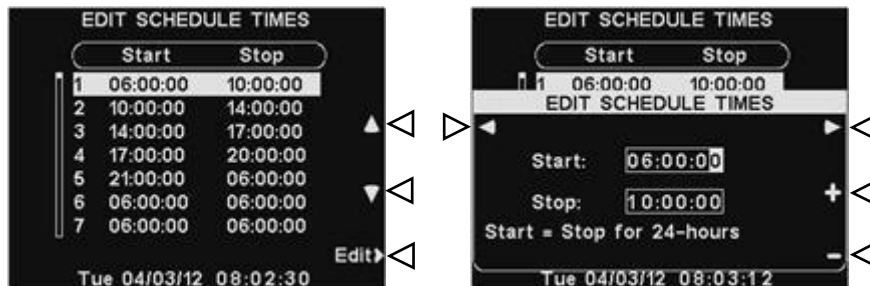
Up to 12 Schedule Times can be set to establish periods in which messages can be played from the Message Center. Schedule Times can be edited as needed. To make changes to the Schedule Times, press the **Edit schedule times** button on the **STORE SETTINGS** display.

Note: The **EDIT SCHEDULE TIMES** display can also be accessed through the **MESSAGE CENTER**.



On the **EDIT SCHEDULE TIMES** display, press the ▲ (up) and ▼ (down) buttons to move up and down the list of time periods. You can continue pressing the ▼ button past 7 until you reach 12. When the time period you would like to change is highlighted, press the **Edit** button.

Note: Changing these time periods will affect all Message Center message schedules. Time periods for Scheduled Outbound Volume Settings will not be affected.



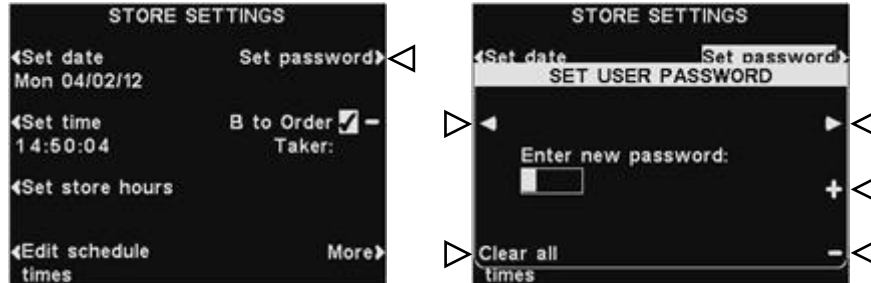
Use the ◀ and ▶ buttons to move the highlight in the **Start** or **Stop** field, and then use the + and - buttons to change the highlighted numbers. To move from one field to the other, repeat pressing the ◀ or ▶ button until the highlight moves beyond the end of one field and into the other.

Note: If your store is open 24 hours, and you want a schedule to run for 24 hours, set the **Stop** time the same as the **Start** time.

To save these settings, press the **Back** button.

Set Password

When you have completed all the other **Store Settings**, set up a user password. When the installation is finished, be sure to give the password to the store manager. To set a password for the first time, press the **Set password** button on the **STORE SETTINGS** display.



Use the ◀ and ▶ buttons to move the highlighted box in the **Enter new password** field. Use the + button to put alphabetic characters in the highlighted box, or the - button to put numeric characters in the highlighted box. Continuing down from A will take you to numeric characters. Continuing up from 9 will take you to alphabetic characters. Press the ▶ button to move the highlighted box to the next position and enter the next character. If you want to start over with a new password, press the **Clear All** button. After entering the entire new password, press the **Back** button twice to save the new password and return to the **ADVANCED MENU**.

B-to-Order Taker

The **B-to-Order Taker** feature allows the Order Taker to hear (or not hear) **B** button communication during **A** button communication with a customer.

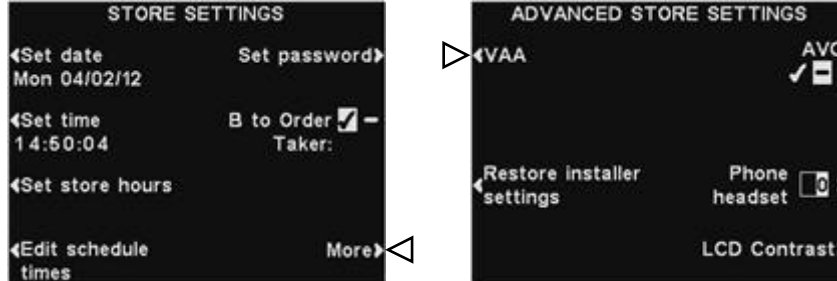
Press the **B-to-Order Taker** button on the **STORE SETTINGS** display to select ✓(on) to allow the Order Taker to hear **B** button communication while pressing an **A** button. If you select -(off), the Order Taker will not hear **B** button communication while pressing an **A** button.



To save this setting, press the **Back** button.

VAA Settings

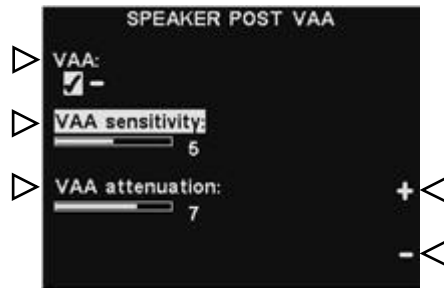
VAA settings can be adjusted to eliminate echo, feedback or fluctuating inbound audio levels. To turn the VAA feature on/off, or to adjust VAA levels, press the **More** button on the **STORE SETTINGS** display. On the **ADVANCED STORE SETTINGS** display, press the **VAA** button.



Note:

In multiple-lane configurations, **VAA** settings will appear for Lanes 1 and 2. Settings will be similar for both lanes.

Note: If you have a dual lane drive-thru operation, you may need to make this adjustment for each lane.



VAA ✓(on) or -(off):

To turn the VAA feature on or off, press the **VAA** button to select ✓(on) or -(off).

VAA Sensitivity Level:

This is the volume level of the order taker's voice required to activate the VAA circuit. During normal operation, the inbound audio level should be reduced when the Order Taker speaks to the customer, and should recover when the Order Taker stops speaking. If speaking to the customer does not automatically reduce the inbound level, press the **VAA sensitivity** button and then press the + and - buttons to adjust sensitivity to the Order Taker's voice.

VAA Attenuation Level:

This is the amount that the inbound volume level is reduced when the Order Taker speaks to the customer. The attenuation level is factory set at 15dB, and should not require adjustment.

If the Order Taker cannot hear the inbound audio at all while speaking, the **VAA attenuation** can be adjusted to a lower level. To make this adjustment, press the **VAA attenuation** button and then press the + and - buttons until the desired level is reached. If you do not want any attenuation, please just turn off VAA without adjusting this setting.

Restore Installer Settings

After the initial installer settings have been made, store personnel can customize adjustments to settings. After doing so, they can always return the base station to its original installer settings by pressing the **Restore installer settings** button on the **ADVANCED STORE SETTINGS** display, and then pressing the **Restore** button on the **RESTORE INSTALLER SETTINGS** display.



AVC Setting

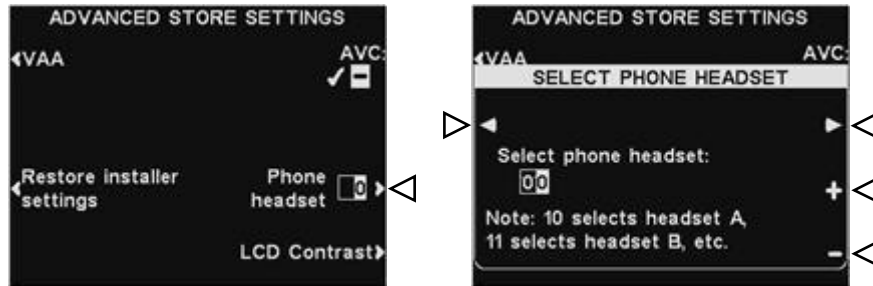
Press the **AVC** button to select ✓(on) or –(off) for AVC (Automatic Volume Control). When there is excessive outside noise, the level of the order taker's voice in the speaker will be adjusted up. When it is quiet in the drive-thru area, the level will be adjusted down.



Note: In multiple-lane configurations, **AVC** settings will appear for Lanes 1 and 2. Settings will be similar for both lanes.

Phone Headset

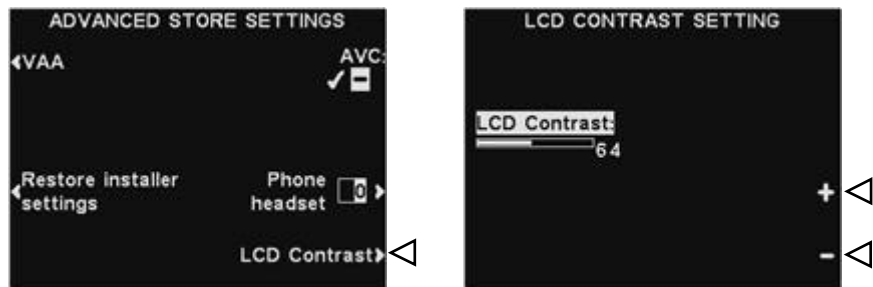
If there is an HME Telephone Interface connected to your base station, you can assign one headset to receive incoming telephone calls. To do this, press the **Phone headset** button on the **ADVANCED STORE SETTINGS** display. On the **SELECT PHONE HEADSET** display, use the ◀ and ▶ buttons to move the highlight in the **Select phone headset** field, and then use the + and - buttons to enter number of the headset.



To save these settings, press the **Back** button.

LCD Contrast

To adjust the light/dark contrast of the base station display, press the **LCD Contrast** button on the **ADVANCED STORE SETTINGS** display, and then press the + (lighter) and - (darker) buttons to adjust the contrast. When you are finished, press the **Back** button to save the setting and return to the desired display.



Note: This is a factory setting, and does not normally require adjustment during installation.

4.5.8 Installer Setup

See [Section 4.2](#) for Basic Installer Setups and [Section 4.3](#) for Advanced Installer Setups.

4.5.9 Network

See [Section 4.4](#) for Network settings.

4.5.10 Diagnostics

Only press the **Diagnostics** button if you experience a problem with EOS|HD operation and have to call HME Technical Support. The Technical Support representative will guide you through the automated diagnostics. If this is necessary, select **Menu** on the base station **STATUS** display and then press the **More** button on the **MAIN MENU**. On the **ADVANCED MENU**, press the **Diagnostics** button, and then select the test requested by the Technical Support representative.



If requested, press the **More** button on the **DIAGNOSTICS** display for additional diagnostics.



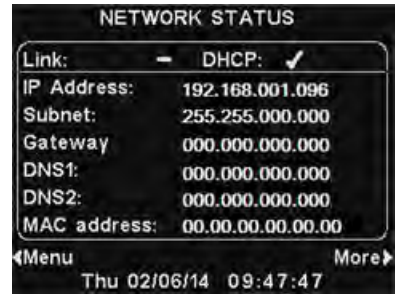
4.5.11 Early Warning Setting

An external vehicle detector can be used with the EOS|HD to give a pre-warning signal when a vehicle enters the drive-thru area. To set up a pre-warning signal, first install the external vehicle detector at the desired detection point then connect its cable to the base station audio circuit board according to the appropriate wiring diagram in [Figures 26 through 36](#).

4.6 PC Navigation

If your EOS|HD was set up to operate on a network, all of the same settings that can be made on the base station can also be made from your PC, using a web browser. Refer to [Section 4.4, Network Settings](#), to configure the base with the proper Network settings according to information from your IT department.

The EOS|HD provides web pages to view and edit base station configuration settings. To open the EOS|HD on your PC, enter its IP Address in the address bar on your internet browser as shown below, and then press the **Enter** key on your keyboard.



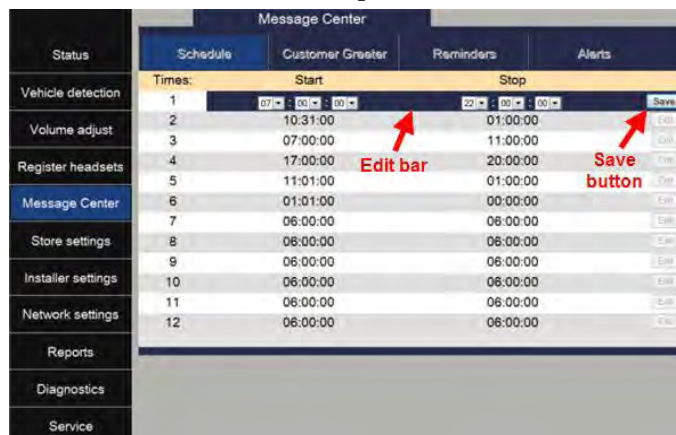
Note: You can find the IP Address on the base station Network Status display by using the following button sequence:

LANE STATUS > More > More > More > More.

Select any category from the **Main Menu** that you would like to view or edit. Some topics will cause a **Secondary Menu** bar to appear, from which you can select a sub-topic.



If you click your cursor on an **Edit** button, an edit bar will appear with setup choices. If you make any setup changes, you must click on the **Save** button to save your changes. If you do not want to save your changes, or do not make any changes, you can click on any other menu topic, or click on the back arrow at the top-left corner of the browser screen.



The EOS|HD interface provides the following web pages:

- **Status** – provides Lane, Message, Base, Version, Network and Copyright information.
- **Vehicle detection** – allows you to control and reset the vehicle detectors on the base.
- **Volume adjust** – allows you to adjust audio volumes.
- **Register headset** – allows you to register one or multiple headsets, or to clear headset registrations.
- **Message Center** – allows you to set up messages to be played to audio destinations as well as in the case of Alert messages, set up text messages to be sent to email and text recipients.
- **Store settings** – allows you to set up store parameters such as date, time, store hours, schedule times, passwords, B to Order Taker, VAA, AVC, Phone headset and LCD contrast, as well as Restore installer settings.
- **Installer settings** – allows you to set up basic operational settings such as Lane configuration, Auto-Hands-Free, Language selection, Speaker post configuration, ClearSound, Phone, Line In/Out routing, Radio options and Vehicle tone, as well as Save installer settings and Restore factory settings.
- **Reports** – allows you to view Message Center settings and headset statistics reports.
- **Diagnostics** – provides information that may be used by HME Technical Support to diagnose problems.
- **Service** – displays all version information and contact information, in case you need assistance from HME Technical Support.

5. SYSTEM FUNCTIONAL CHECK

<i>ACTION</i>	<i>RESULT</i>
Plug base station power adapter into electrical outlet.	System power is on. Base station lights are on.
Go outside (or have someone else go) to the speaker/microphone and do the following.	
Push button A1 or A2 and speak into headset microphone.	Audio should be heard at outside speaker.
Release button A1/A2. On the base station MAIN MENU display, press the Vehicle Detection button, and then press the Mode button to select OVERRIDE. Tap on outside microphone.	Vehicle present tone should be heard in headset earpiece, followed by inbound audio. If this does not happen, there is a wiring problem.

6. ROUTINE OPERATION

The EOS|HD can be operated in Hands-Free (HF), Auto-Hands-Free (AHF), B-channel Hands-Free (BHF) or Push-To-Talk (PTT) modes.

A full-duplex system supports HF, AHF, BHF and PTT operation. In HF, AHF and BHF operation, communication can be transmitted and received at the same time, as in a normal telephone conversation. In the AHF mode, transmission and reception are activated automatically when a customer drives into the drive-thru lane. In the HF mode, transmission and reception are activated by touching and releasing the A1 or A2 button on the headset. In the PTT mode, the A1 or A2 button must be pressed and held while the operator is talking to the customer. A half-duplex system only supports the PTT mode, and the customer's voice will not be heard while the operator is pressing the A1 or A2 button.

In single lane operations, when a customer arrives in the drive-thru lane, you will hear a single beep in the headset.

In dual-lane operations, when a customer arrives in a drive-thru lane, you will hear one beep in the headset for Lane 1 and two beeps for Lane 2.

In dual-lane operation, if you are communicating with a customer in one lane when another customer arrives in the other lane, you will hear a beep in the headset. When the customer leaves the speaker post in the lane you are connected to, the same beep will repeat in the headset every four seconds until you touch the A1 or A2 button to communicate with the customer in the other lane.

Note: In dual-lane operations, if you have a Mode Switch and it is set to "DEDICATED," you will only hear beeps in the headset when a customer arrives in the lane you are operating.

6.1 Changing Headset Languages

To change the language of the cues heard in the headset, from English to Spanish/French and back to English, with the headset power off, press and hold the volume-down **V** button and the A1 button while you press the power button. The language of the cues heard in the headset will change when the power goes on. The headset will remember this setting.

6.2 Obtaining Headset Status

To obtain headset status, with its power off, press and hold the volume-down **V** button and the A2 button while you press the power button. You will hear the status message in the headset earpiece when the power goes on.

6.3 Single-Lane Operation (one speaker post in one lane)

Hands-Free (HF) Mode:

- With the power off, press and hold the volume-up **Λ** and B buttons while you press and release the power button to turn the headset on in the HF mode. The headset will remember this setting.
- As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in the headset, and you will be able to hear the customer at the speaker post or menu board.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Touch and release the A1 or A2 button to speak and listen to the customer.
- Touch and release the A1, A2 or B button to end communication with the customer.
- Touch and release the A1 or A2 button if you want to speak to the customer again.
- If a customer drives away from the speaker post or menu board, the headset will stop transmitting.

Auto-Hands-Free (AHF) Mode:

Only one headset operator at a time can use the auto-hands-free feature. The headset will use this setting until it is turned off.

- With the power off, press and hold the volume-up **Λ** and A1 buttons while you press and release the power button to turn the headset on in the AHF mode.
- As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in the headset, and you will be able to hear the customer at the speaker post or menu board.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Speak and listen to the customer without pressing any buttons.
- Touch and release the A1, A2 or B button to end communication with the customer.
- Touch and release the A1 or A2 button if you want to speak to the customer again.
- If a customer drives away from the speaker post or menu board, the headset will stop transmitting.

B-Channel Hands-Free (BHF) Mode:

- With the headset power off, press and hold the B and A2 buttons while you press and release the power button to turn it on in the BHF mode.
- The BHF mode is for hands-free communication among crew members. If a customer arrives, B-channel communication will automatically be interrupted to allow communication with the customer.

Push-To-Talk (PTT) Mode:

- With the power off, press and hold the volume-down **V** and B buttons while you press and release the power button to turn the headset on in the PTT mode. The headset will remember this setting.
- As a customer enters the drive-thru lane, you will hear an alert tone (single beep) in the headset, and you will be able to hear the customer at the speaker post or menu board.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Touch and hold the A1 or A2 button to speak to the customer. Release to stop speaking to the customer (full duplex) or to listen to the customer (half duplex).

6.4 Dual-Lane Operation (two lanes with one speaker post in each lane)

Hands-Free (HF) Mode:

- With the headset power off, press and hold the volume-up **Λ** and B buttons while you press and release the power button to turn it on in the HF mode. The headset will remember this setting.
- As a customer enters a drive-thru lane, you will hear an alert tone in the headset (single beep for Lane 1, double beep for Lane 2), and you will be able to hear the customer at the speaker post or menu board if that lane is selected.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Touch and release the A1 button for Lane 1 or A2 for Lane 2, to speak and listen to the customer.
- Touch and release the A1, A2 (depending on lane) or B button to end communication with the customer.
- Touch and release the 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 a customer drives away from the speaker post or menu board, the headset will stop transmitting.

Auto Hands-Free (AHF) Mode:

Only one headset operator at a time, in each lane, can use the AHF feature. If an operator attempts to configure another one, "System busy" will be heard in his/her headset. Changing lanes is not possible in the AHF mode.

The headset will use this setting until it is turned off. If you turn a headset off in the AHF mode, it will reset to its previous operating mode.

- For Lane 1 operation, with the headset power off, press and hold the volume-up **Λ** and A1 buttons while you press and release the power button to turn it on in the AHF mode.
- For Lane 2 operation, with the headset power off, press and hold the volume-up **Λ** and A2 buttons while you press and release the power button to turn it on in the AHF mode.
- As a customer enters a drive-thru lane, you will hear an alert tone in the headset (single beep for Lane 1, double beep for Lane 2), and you will be able to hear the customer at the speaker post or menu board if that lane is selected.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Speak and listen to the customer without pressing any buttons.
- Touch and release the A1, A2 (depending on lane) or B button to end communication with the customer.
- Touch and release the A1 button for Lane 1 or A2 for Lane 2, to speak to the customer again.
- If a customer drives away from the speaker post or menu board, the headset will stop transmitting.

B-Channel Hands-Free (BHF) Mode:

- With the headset power off, press and hold the B and A2 buttons while you press and release the power button to turn it on in the BHF mode.
- The BHF mode is for hands-free communication among crew members. If a customer arrives, B-channel communication will automatically be interrupted to allow communication with the customer.

Push-To-Talk (PTT) Mode:

- With the headset power off, press and hold the volume-down **V** and B buttons while you press and release the power button to turn it on in the PTT mode. The headset will remember this setting.
- As a customer enters a drive-thru lane, you will hear an alert tone in the headset (single beep for Lane 1, double beep for Lane 2), and you will be able to hear the

customer at the speaker post or menu board if that lane is selected.

- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Touch and hold the A1 button to speak to a customer in Lane 1, or A2 to speak to a customer in Lane 2. Release to stop speaking to the customer (full duplex) or to listen to the customer (half duplex).

6.5 Tandem Operation (two speaker posts in one lane)

In Tandem operation, customers at Order Point #1 are served by Order Taker #1, and customers at Order Point #2 are served by Order Taker #2. If a customer arrives at Order Point #2 when there is no customer at Order Point #1, a message will be played automatically from Speaker Post or Menu Board #2 saying "Please pull forward." When a customer arrives at Order Point #1, Order Taker #1 will be alerted. If a customer arrives at Order Point #2 when there is already a customer at Order Point #1, Order Taker #2 will be alerted.

Note: If you want to change the pre-recorded "Please pull forward" message, see [Message Center](#) settings.

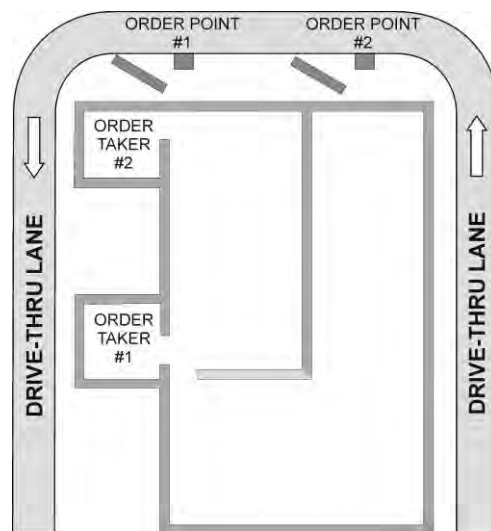


Figure 22. Typical tandem drive-thru layout

CAUTION: In tandem operation, if Order Taker #2's headset is set in the Auto Hands-Free mode, the "Please pull forward" message will not be played at Order Point #2. If necessary, Order Taker #2 will have to ask the customer at Order Point #2 to pull forward.

Hands-Free (HF) Mode (Either Order Taker):

- With the headset power off, press and hold the volume-up **Λ** and B buttons while you press and release the power button to turn it on in the HF mode. The headset will remember this setting.
- As a customer approaches Order Point #1, Order Taker #1 will hear an alert tone in the headset, and will be able to hear the customer at speaker post or menu board #1.
- If a customer approaches Order Point #2 when there is already another customer at Order Point #1, Order Taker #2 will hear an alert tone in the headset, and will be able to hear the customer at speaker post or menu board #2.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Order Taker #1, touch and release the A1 button to speak and listen to the customer at Order Point #1.
- Order Taker #2, touch and release the A2 button to speak and listen to the customer at Order Point #2.
- Touch and release the A1/A2 (depending on which Order Taker) or B button to end communication with the customer.
- Touch and release the A1/A2 (depending on which Order Taker) to speak to the customer again.
- If a customer drives away from the speaker post or menu board, the headset will stop transmitting.

Auto Hands-Free (AHF) Mode (Only Order Taker #1):

- Order Taker #1 only, with the headset power off, press and hold the volume-up **Λ** and A1 button while you press and release the power button to turn it on in the AHF mode. The headset will use this setting until it is turned off.
- As a customer approaches Order Point #1, you will hear an alert tone in the headset, and you will be able to hear the customer at speaker post or menu board #1.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Speak and listen to the customer without pressing any buttons.
- Touch and release the A1 or B button to end communication with the customer.
- Touch and release the A1 button to speak to the customer again.
- If a customer drives away from the speaker post or menu board, the headset will stop transmitting.

B-Channel Hands-Free (BHF) Mode:

- With the headset power off, press and hold the B and A2 buttons while you press and release the power button to turn it on in the BHF mode.
- The BHF mode is for hands-free communication among crew members. If a customer arrives, B-channel communication will automatically be interrupted to allow communication with the customer.

Push-To-Talk (PTT) Mode (Either Order Taker):

- With the headset power off, press and hold the volume-down **V** and B buttons while you press and release the power button to turn it on in the PTT mode. The headset will remember this setting.
- As a customer approaches Order Point #1, Order Taker #1 will hear an alert tone in the headset, and will be able to hear the customer at speaker post or menu board #1.
- If a customer approaches Order Point #2 when there is already another customer at Order Point #1, Order Taker #2 will hear an alert tone in his/her headset, and will be able to hear the customer at speaker post or menu board #2.
- Use the volume-up **Λ** and down **V** buttons to adjust the customer's voice level in the headset if necessary.
- Touch and hold the A1 button to speak to a customer at Order Point #1, or A2 to speak to a customer at Order Point #2. Release to stop speaking to the customer (full duplex) or to listen to the customer (half duplex).

6.6 Internal Communication

If using the BHF mode, the B channel remains open for hands-free communication among crew members. If a customer arrives, B-channel communication will automatically be interrupted to allow communication with the customer.

If not using the BHF mode, to communicate internally with other headset operators, press and hold the B button while talking. Release when finished. In single-lane operations, up to four operators can have conference-call type communication by all pressing and holding their B button. They will hear each other without interference.

In dual-lane operation, if the system was set up for "Split-B," internal communication will be heard only by headset operators in their lane. If the system was not set up for Split-B operation, all internal communication will be heard by operators in both lanes. In dual-lane operation, up to three operators can have conference-call type communication by all pressing and holding their B buttons. They will hear each other without interference. If a car arrives in a lane while internal communication is taking place, priority will be given to the respective A channel for customer communication, which will reduce the number of internal communication channels available.

6.7 Speed-Team Operation

Speed team operation is used during high-volume times. An order taker wearing a headset relays orders from outside into the store, using button A1, A2 or B.

Note: Speed teams are only used in single or dual-lanes, not in tandem drive-thrus.

CAUTION: *With Speed Team ✓(on), many base station functions will be disabled. Vehicle arrival tones and the customer's voice will not be heard during Speed Team operation. For normal order taking, the Speed Team setting should be -(off).*

To start speed-team operation, you must press the **Menu** button on the base station **LANE STATUS** display, and then press the **Operator mode** button on the **MAIN MENU** display. On the **OPERATOR MODE** display, press the **Activate Speed Team** button to select ✓(on). To change back to normal operation, return to the **OPERATOR MODE** display and press the **Activate Speed Team** button to select -(off).

Select **Ext** only if speed team will be activated from a remote switch connected to the base station. See Figure 24.



Note: In multiple-lane operations, **Activate dedicated mode** will also appear on the **OPERATOR MODE** display. See [Appendix](#) for explanation.

6.8 Wired Backup System

In order to use a wired backup system, there must be a Switcher Board (optional) in the base station. Open the base station, and look for the board shown in Figure 23. If there is no Switcher Board, a wired backup system cannot be used. If there is a Switcher Board, place the S2 switch in the IN position to use the wired backup system. When using the EOS|HD, leave the S2 switch in the OUT position.

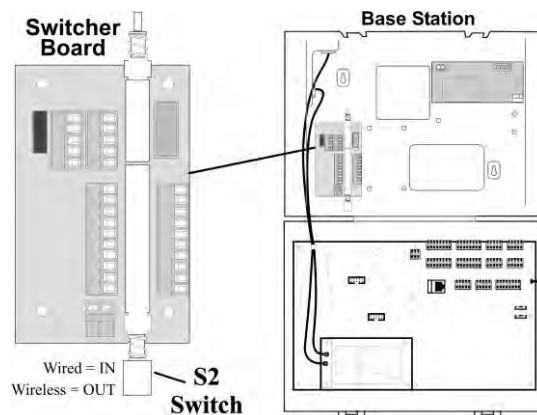


Figure 23. S2 switch on Switcher Board

6.9 Message Center Operation

To record messages and set up times and locations for them to be played, refer to [section 4.5.3](#).

7. IN CASE OF PROBLEMS

PROBLEM	PROBABLE CAUSE	SOLUTION
“Battery failed” is heard in headset when power button is pressed.	Battery may be defective.	Replace battery. Call HME.*
	Battery contacts may be dirty.	Clean battery contacts with alcohol.
“Headset failed” is heard in headset when power button is pressed.	Headset may be defective.	Use another headset. Call HME.*
	Battery contacts may be dirty.	Clean headset battery contacts with alcohol.
You hear your echo in headset earpiece when you speak into microphone.	Outside speaker and microphone may not be properly installed.	Be sure speaker and microphone are isolated from each other, and are tightly mounted with enough foam packed around each of them to absorb vibrations.
	Outbound and/or inbound audio level may be set too high.	Set outbound audio level just high enough to be heard by customers. Lower inbound audio to comfortable level.
	VAA controls may need to be adjusted.	Adjust VAA Level control to reduce inbound audio level when you are speaking into the headset microphone. Adjust VAA attenuation level to reduce inbound audio level when you are speaking into the headset microphone. NOTE: If the inbound level is too low, you will not hear the customer.
No sound is heard in headset when you press button A and speak into microphone.	Power may be off at base station.	Be sure HME logo and other lights on base station are lit. Check circuit breaker for building.
	Power supply in base station may not be working.	Be certain power adapter is plugged into AC electrical outlet, and is connected to J3 on base station audio circuit board.
	Headset power may not be on.	Press power button on headset. Be certain power light goes on and switches from red to green.
	Volume may not be set correctly.	Adjust volume with Volume-up and down buttons.
	Battery may be low or defective.	Check headset power light. If not lit, replace battery.
	Headset may be defective.	Use another headset. Call HME.*
	Headset may not be registered.	Register headset.
Channel A or B is not working.	Headset power may not be on.	Press power button on headset. Be certain power light goes on and switches from red to green.
	Battery may be low or defective.	Check power light. If not lit, replace battery.
	A1/A2 or B1/B2 light on base station does not light when button A or B is pressed.	Use another headset. Call HME.*
	Headset may not be registered.	Register headset.
Outbound sound is too low.	Outbound volume may be set too low for environment.	Adjust outside speaker volume level.
No outbound sound; Customer cannot hear anything.	System may be set for speed team.	Check speed-team setting.
	There may be loose wires on outside speaker or base station circuit board.	Check vehicle present light (car) on base station. Check outside speaker wire connections on J6 or J14 in base station and at outside speaker.
	Defective speaker or base station.	Call HME.*
Customer cannot be heard in push-to-talk (PTT) operation.	System may be set for speed team.	Check speed-team setting.
	Base station may be set for wrong drive-thru mode (full or half-duplex).	Check drive-thru mode setting.

PROBLEM	PROBABLE CAUSE	SOLUTION
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 connections at ANT1 and ANT2 on left side of transceiver circuit board. Call HME.*
	Circuit board may be defective.	Call HME.*
	VAA level is too sensitive.	Reduce VAA level.
Personnel hear customers in ceiling speaker or headsets, but cannot hear each other.	Circuit board may be defective.	Check to see if A1/A2 and B1/B2 lights on base station are lit when buttons are pressed. Call HME.*
	Defective headset.	Use another headset. 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, reset vehicle detector.
	System may be set for speed team.	Be certain speed-team setting is not set to ON.
	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.	Be certain speed-team setting is not set to ON.
	Outside speaker, audio circuit board or vehicle detector board failed.	Call HME.*
	VAA attenuation set too high	Reduce attenuation.
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.	Base station may be set to override position.	On the VEHICLE DETECTION menu, be certain the Mode setting is in the Normal position.
	Vehicle detector may be locked up.	On the VEHICLE DETECTION menu, select Reset Veh Detect.
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.*
“Registration failed” message heard in headset. Lights stay red.	Base station power not on.	Be sure HME logo and other lights on base station are lit. If no light is lit, be certain power adapter is plugged into electrical outlet, and is connected to J3 on base station audio circuit board.
	Registration button not pushed.	Repeat registration procedure. Call HME.*

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

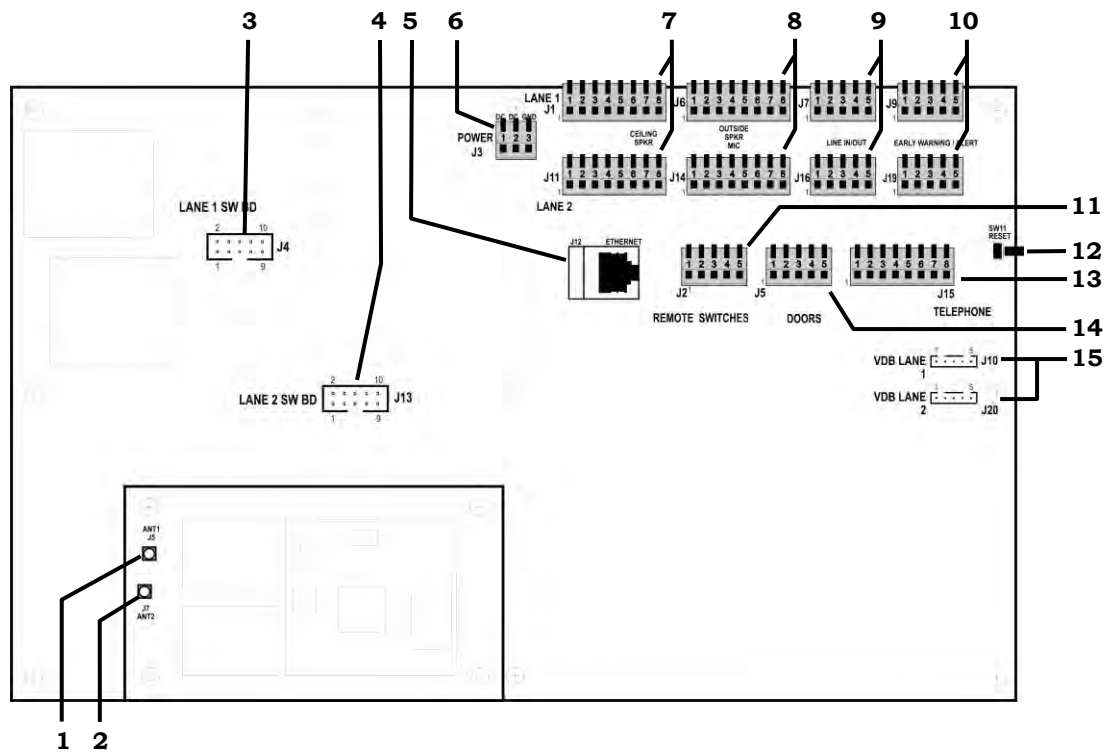


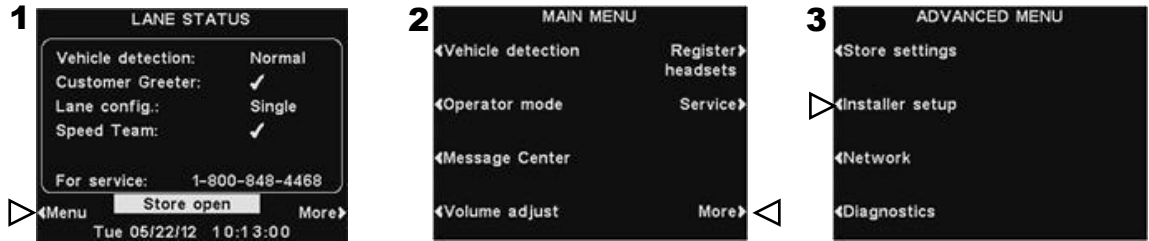
Figure 24. Base station internal connectors and controls

1. ANT1 antenna connector
2. ANT2 antenna connector
3. Switcher board connectors, J4-Lane 1
4. Switcher board connectors, J13-Lane 2
5. Ethernet connector, J12
6. Power connector, J3
7. Ceiling speaker connector, J1-Lane 1, J11-Lane 2
8. Outside speaker/microphone connector, J6-Lane 1, J14-Lane 2
9. Line in/out connector, J7-Lane 1, J16-Lane 2
10. Early warning/alert connector, J9-Lane 1, J19-Lane 2
11. Remote switch connector, J2
12. Reset switch
13. Telephone connector, J15
14. Doors connector for Alert message activation, J5
15. Vehicle detector board (VDB) connector, J10-Lane 1, J20-Lane 2

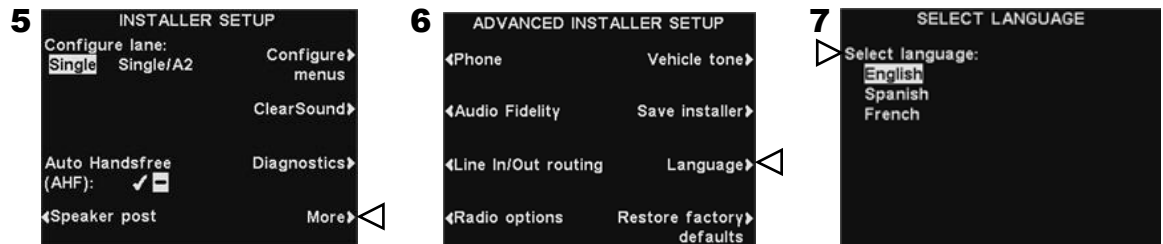
8. TO SET BASE STATION FOR SPANISH OR FRENCH LANGUAGE OPERATION

If the base station is returned to its factory default settings, it will be set for English language operation. To change the language to Spanish or French, make the following selections on the base station display.

Press the buttons indicated by arrows in the order of the numbered displays.



On the **ENTER INSTALLER PASSWORD** display – enter the first character of the 4-digit password in the highlighted box in the **Enter Password** field by pressing the + (up) button to enter alphabetic characters, or the - (down) button to enter numbers. Press the ► button to move the highlighted box to the next position to the right. Repeat this procedure until all 4 digits of the password are entered, and then press the **Continue** button to access the **INSTALLER SETUP** display.



Press the **More** button on the **INSTALLER SETUP** display, and then select **Language** on the **ADVANCED INSTALLER SETUP** display. On the **SELECT LANGUAGE** display, press the **Select language** button to highlight the desired language.

After selecting the language, press the **Back** button to save the setting. The base station will automatically be reset to its previous operating mode.

9. EQUIPMENT SPECIFICATIONS

Base Station

Voltage input	24VDC \pm 2.5V
DC 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
TX/RX frequency	2400MHz – 2483.5MHz
Dimensions	9.75”H x 13”W x 3.5”D (248 mm x 330 mm x 89 mm)
Weight	3.25 lbs (1.47 kg) maximum

Headset

Battery type	3.6V Lithium ion
Battery life	11 - 13 hours (typical)
RF frequency	2400MHz – 2483.5MHz
Weight	3.53 oz (100 gm) with battery

Battery Charger

Voltage input	16.5VAC
Charging time	2.5 hrs maximum
Dimensions	5.56” x 4.25” x 1.69” (141mm x 108mm x 43mm)
Weight	12.03 oz (341 gm) with bracket

10. BLOCK DIAGRAM

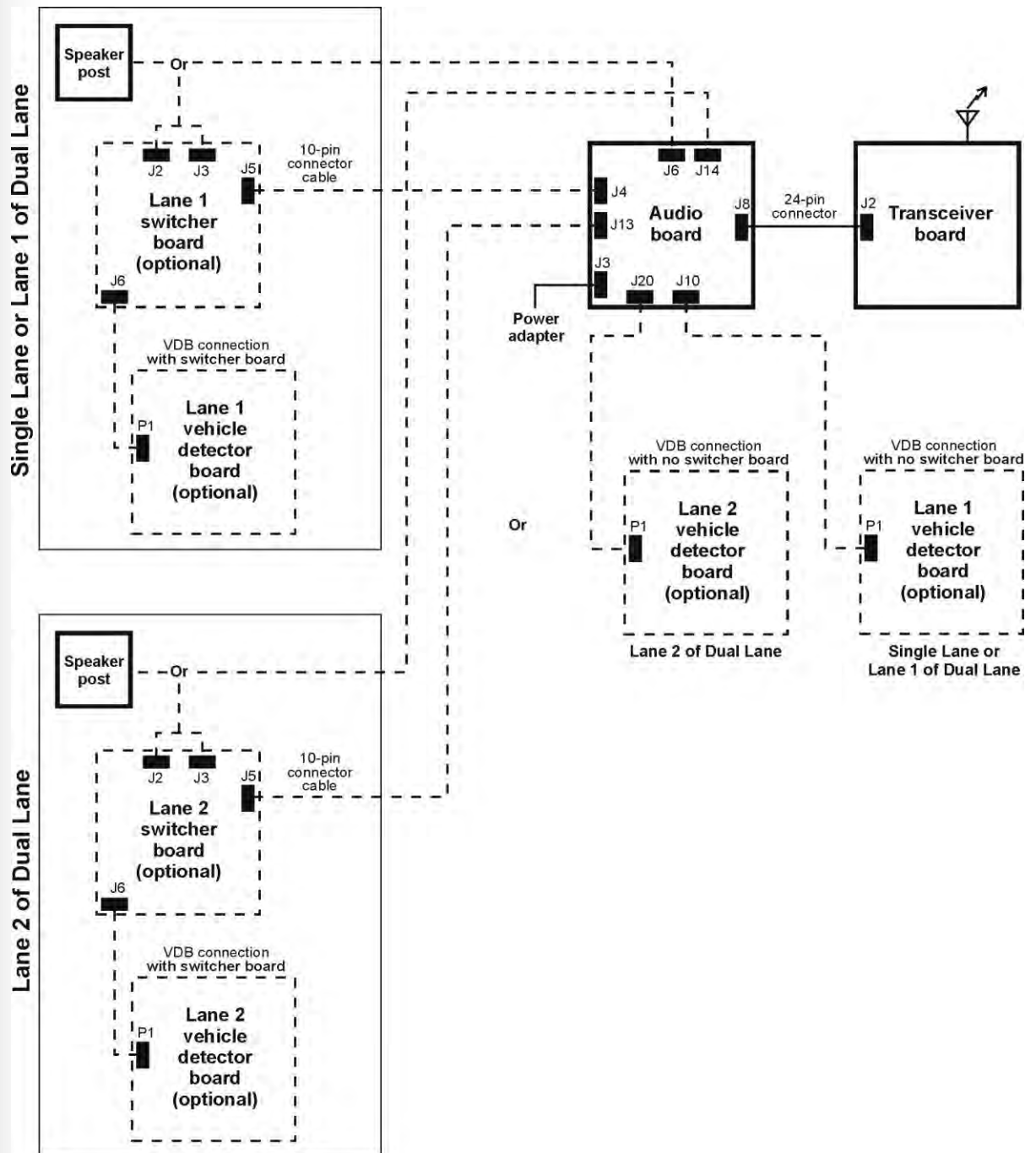


Figure 25. Typical EOS | HD Base Station block diagram

11. BASE INTERFACE DESCRIPTION

11.1 Audio Circuit Board

J1 – Ceiling Speaker In/Out, Lane 1

J1,1	Ground
J1,2	/A1 Talk
J1,3	Relay 1 Common
J1,4	Relay 1 Normally Open
J1,5	Relay 1 Normally Closed
J1,6	Ceiling speaker +
J1,7	Ceiling speaker –
J1,8	Ground

J2 – Remote

J2,1	Ground
J2,2	/Remote speed team
J2,3	Ground
J2,4	/Operator
J2,5	Not used

J3 – Power

J3,1	+24VDC / 16VAC power input
J3,2	-24VDC / 16VAC power input
J3,3	Ground (For DC only)

J4 – Interface w/ Switcher Board, Lane 1

J4,1	Microphone 1
J4,2	Microphone 2
J4,3	Ground
J4,4	+12VDC
J4,5	Not used
J4,6	Negative vehicle detect input
J4,7	Vehicle detector power (12V)
J4,8	Not used
J4,9	Outside speaker –
J4,10	Outside speaker +

J5 – Door Inputs

J5,1	Door 1
J5,2	Door 2
J5,3	Door 3
J5,4	Door 4
J5,5	Ground

J6 – Interface w/o Switcher Board, Lane 1

J6,1	Microphone 1
J6,2	Microphone 2
J6,3	Ground
J6,4	+12VDC
J6,5	Negative vehicle detect input
J6,6	Not used
J6,7	Outside speaker –
J6,8	Outside speaker +

J7 – Line In/Out, Lane 1

J7,1	Line out
J7,2	Ground
J7,3	Line in
J7,4	Ground
J7,5	Not used

J9 – Early Warning / Alert, Lane 1

J9,1	Early warning
J9,2	Ground
J9,3	Not used
J9,4	Ground
J9,5	Alert in

J10 – Vehicle Detector Board Interface, Lane 1 (Primary)

J10,1	Negative vehicle detect signal
J10,2	+12V Vehicle detector power
J10,3	Ground
J10,4	Not used
J10,5	Not used

J11 – Ceiling Speaker In/Out, Lane 2

J11,1	Ground
J11,2	/A1 Talk
J11,3	Relay 2 Common
J11,4	Relay 2 Normally Open
J11,5	Relay 2 Normally Closed
J11,6	Ceiling speaker +
J11,7	Ceiling speaker –
J11,8	Ground

J13 – Interface w/ Switcher Board, Lane 2

J13,1	Microphone 1
J13,2	Microphone 2
J13,3	Ground
J13,4	+12VDC
J13,5	Not used
J13,6	Negative vehicle detect input
J13,7	Vehicle detector power (12V)
J13,8	Not used
J13,9	Outside speaker –
J13,10	Outside speaker +

J14 – Interface w/o Switcher Board, Lane 2

J14,1	Microphone 1
J14,2	Microphone 2
J14,3	Ground
J14,4	+12VDC
J14,5	Negative vehicle detect input
J14,6	Not used
J14,7	Outside speaker –
J14,8	Outside speaker +

J15 – Telephone Interface

J15,1 Telephone audio into base
 J15,2 12V
 J15,3 /A2 talk
 J15,4 /B2 talk
 J15,5 Car 2
 J15,6 Vehicle detect in
 J15,7 Ground
 J15,8 Telephone audio out to phone line

J16 – Line In/Out, Lane 2

J16,1 Line out
 J16,2 Ground
 J16,3 Line in
 J16,4 Ground
 J16,5 Not used

J19 – Early Warning / Alert, Lane 2

J19,1 Early warning
 J19,2 Ground
 J19,3 Not used
 J19,4 Ground
 J19,5 Alert in

J20 – Vehicle Detector Board Interface, Lane 2 (Secondary)

J20,1 Negative vehicle detect signal
 J20,2 +12V Vehicle detector power
 J20,3 Ground
 J20,4 Not used
 J20,5 Not used

11.2 Switcher Circuit Board

J1 – DM5 Interconnect

J1,1 Microphone in
 J1,2 Microphone in
 J1,3 Ground
 J1,4 +12VDC
 J1,5 Not used

J2 – Menu Board Interconnect

J2,1 Speaker/microphone in/out
 J2,2 Speaker/microphone in/out
 J2,3 Shield
 J2,4 Speaker out
 J2,5 Speaker out

J3 – Detector/Timer Interconnect

J3,1 Loop
 J3,2 Loop
 J3,3 Positive vehicle detection signal (in)
 J3,4 Ground
 J3,5 Negative vehicle detection signal (in)
 J3,6 Greet
 J3,7 Greet
 J3,8 Negative vehicle detection signal (out)
 J3,9 Ground
 J3,10 Positive vehicle detection signal (out)

J4 – Backup System Interconnect

J4,1 Loop
 J4,2 Loop
 J4,3 Negative vehicle detection signal (out)
 J4,4 Ground

J4,5 Positive vehicle detection signal (out)

J4,6 Not used
 J4,7 Speaker/microphone in/out
 J4,8 Speaker/microphone in/out
 J4,9 +12V to +48V in
 J4,10 +12V to +48V in

J5 – Audio Board Interconnect

J5,1 Microphone 1
 J5,2 Microphone 2
 J5,3 Ground
 J5,4 +12VDC
 J5,5 Positive vehicle detector input (not used)
 J5,6 Negative vehicle detector input
 J5,7 Vehicle detector power
 J5,8 Not used
 J5,9 Outside speaker –
 J5,10 Outside speaker +

J6 – Vehicle Detector Board Interconnect

J6,1 Vehicle detector signal
 J6,2 Vehicle detector power (12V)
 J6,3 Ground
 J6,4 Not used
 J6,5 Not used

TB1 – Connector for Internal Detector

1 Loop in
 2 Loop in

11.3 Vehicle Detector Circuit Board (Optional)

P1 – Audio Board Interface Cable Connector

P1,1 Signal
 P1,2 Power
 P1,3 Ground

TB1 – Vehicle Detector Loop Connector

12. WIRING DIAGRAMS

Full-Duplex Drive-Thru System with VDB but no Switcher Board

[Page 88, Figure 26](#) — (Connections for Lane 1 or Single Lane)

[Page 89, Figure 27](#) — (Connections for Lane 2 of Dual/Y-Lane or Tandem)

Full-Duplex Drive-Thru System with VDB, Switcher Board and IC300 Intercom

[Page 90, Figure 28](#) — (Connections for Lane 1 or Single Lane)

[Page 91, Figure 29](#) — (Connections for Lane 2 of Dual/Y-Lane or Tandem)

Full-Duplex Drive-Thru System with VDB, Switcher Board and Microphone

[Page 92, Figure 30](#) — (Connections for Lane 1 or Single Lane)

[Page 93, Figure 31](#) — (Connections for Lane 2 of Dual/Y-Lane or Tandem)

Half-Duplex Drive-Thru System with VDB but no Switcher Board

[Page 94, Figure 32](#) — (Connections for Lane 1 or Single Lane)

[Page 95, Figure 33](#) — (Connections for Lane 2 of Dual/Y-Lane or Tandem)

Half-Duplex Drive-Thru System with VDB and Switcher Board

[Page 96, Figure 34](#) — (Connections for Lane 1 or Single Lane)

[Page 97, Figure 35](#) — (Connections for Lane 2 of Dual/Y-Lane or Tandem)

[Page 98, Figure 36](#) — **Optional Equipment Connections**

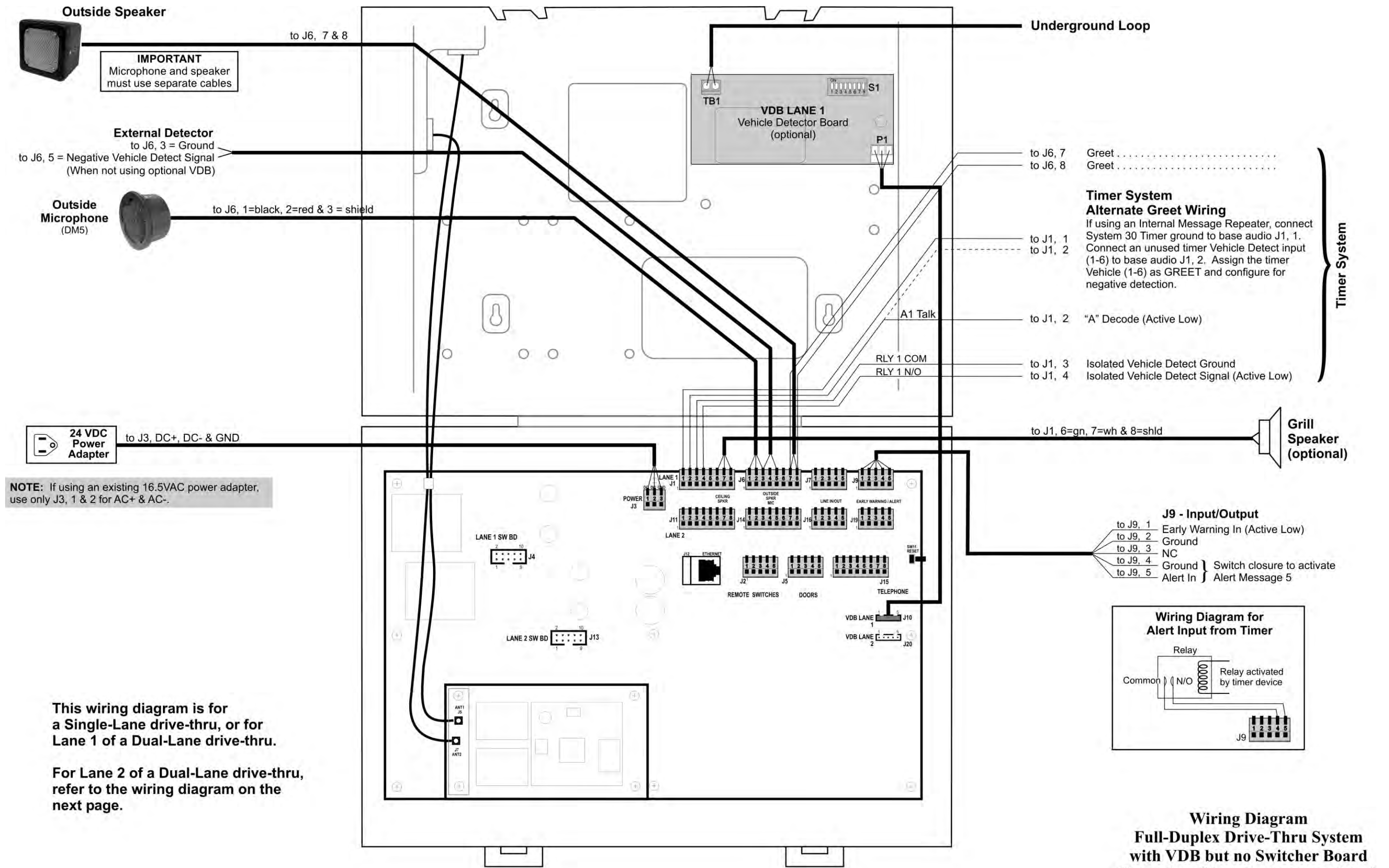
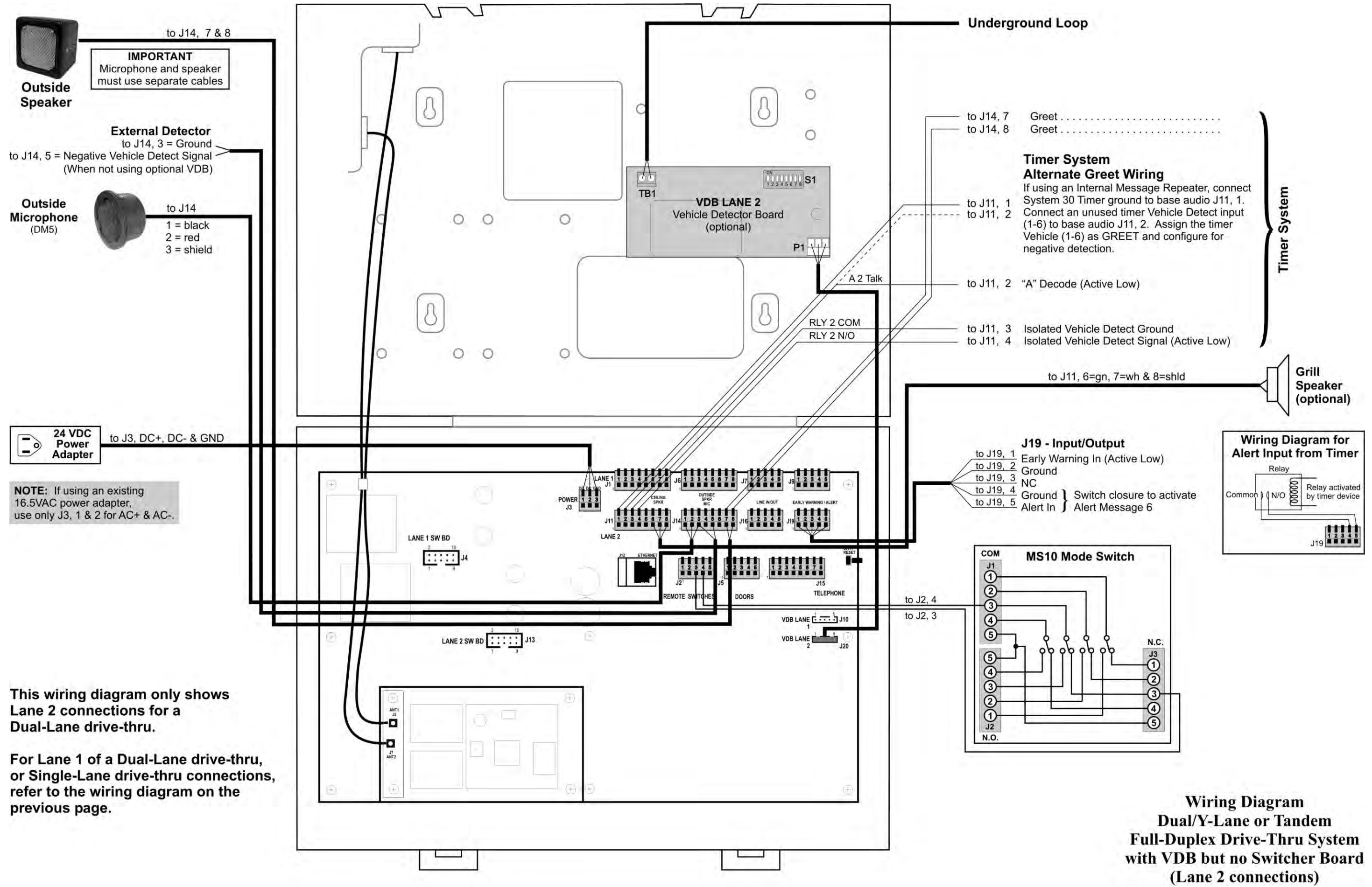


Figure 26.



This wiring diagram only shows Lane 2 connections for a Dual-Lane drive-thru.

For Lane 1 of a Dual-Lane drive-thru, or Single-Lane drive-thru connections, refer to the wiring diagram on the previous page.

Figure 27.

**Wiring Diagram
Dual/Y-Lane or Tandem
Full-Duplex Drive-Thru System
with VDB but no Switcher Board
(Lane 2 connections)**

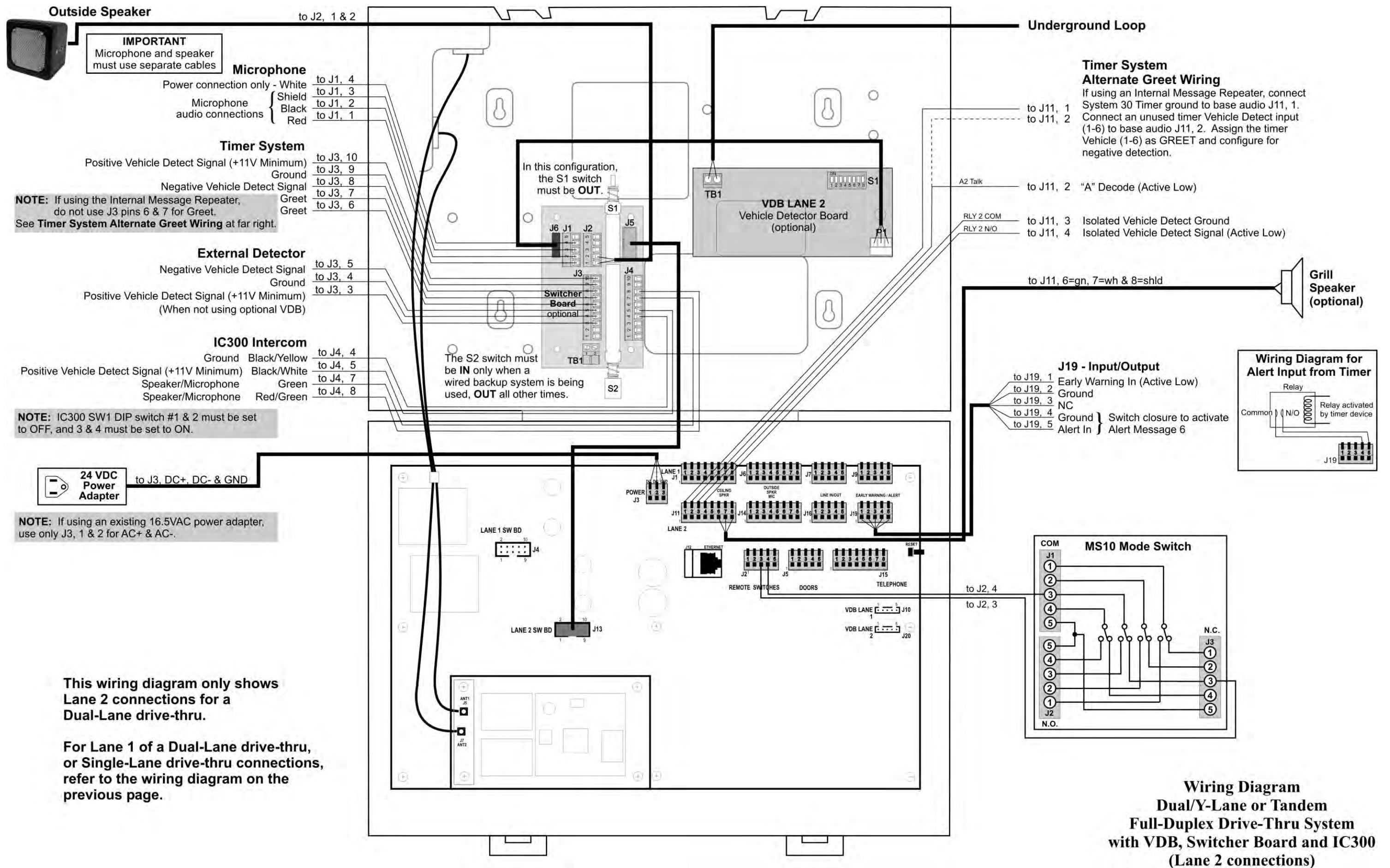


Figure 29.

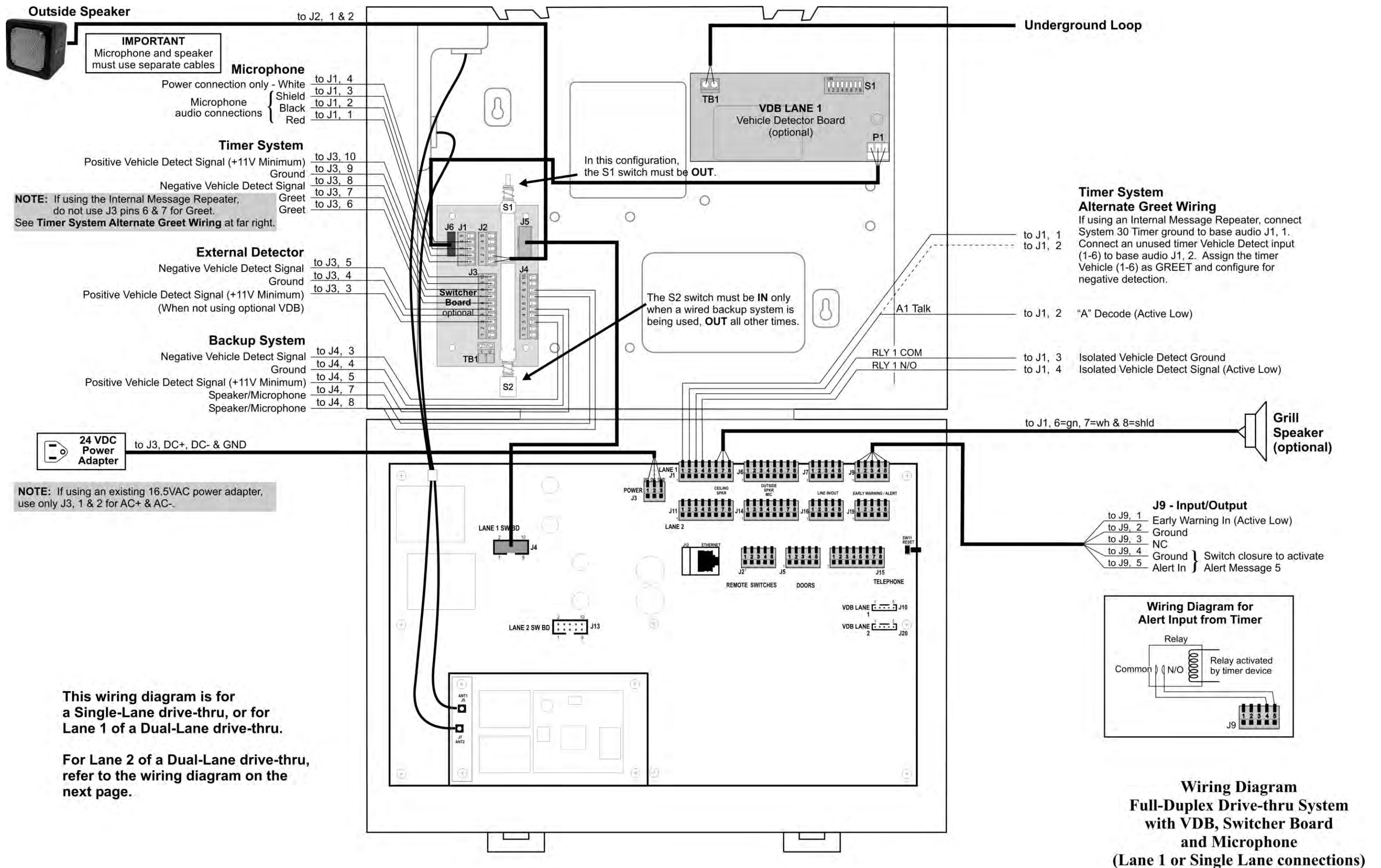


Figure 30.

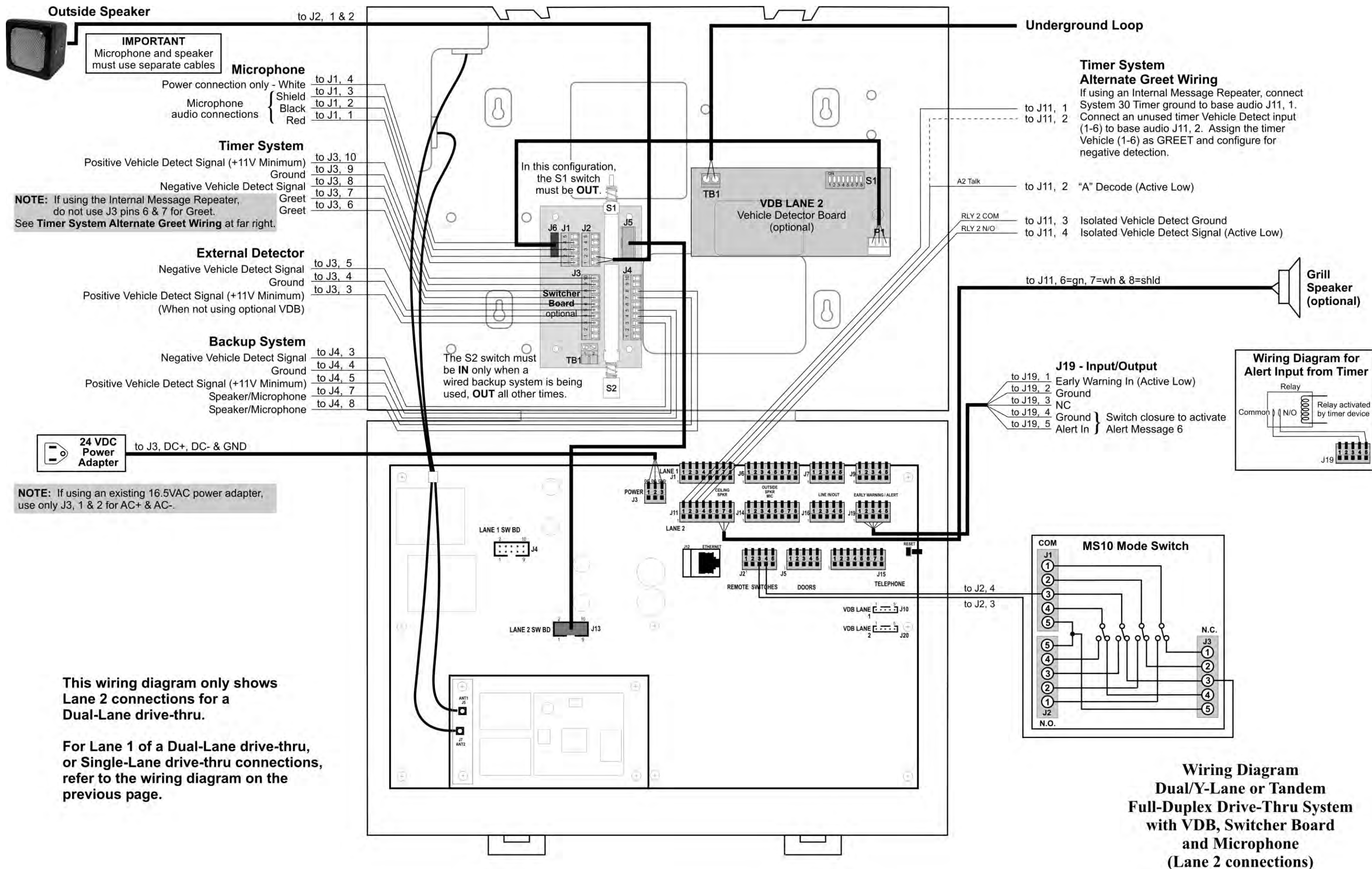


Figure 31.

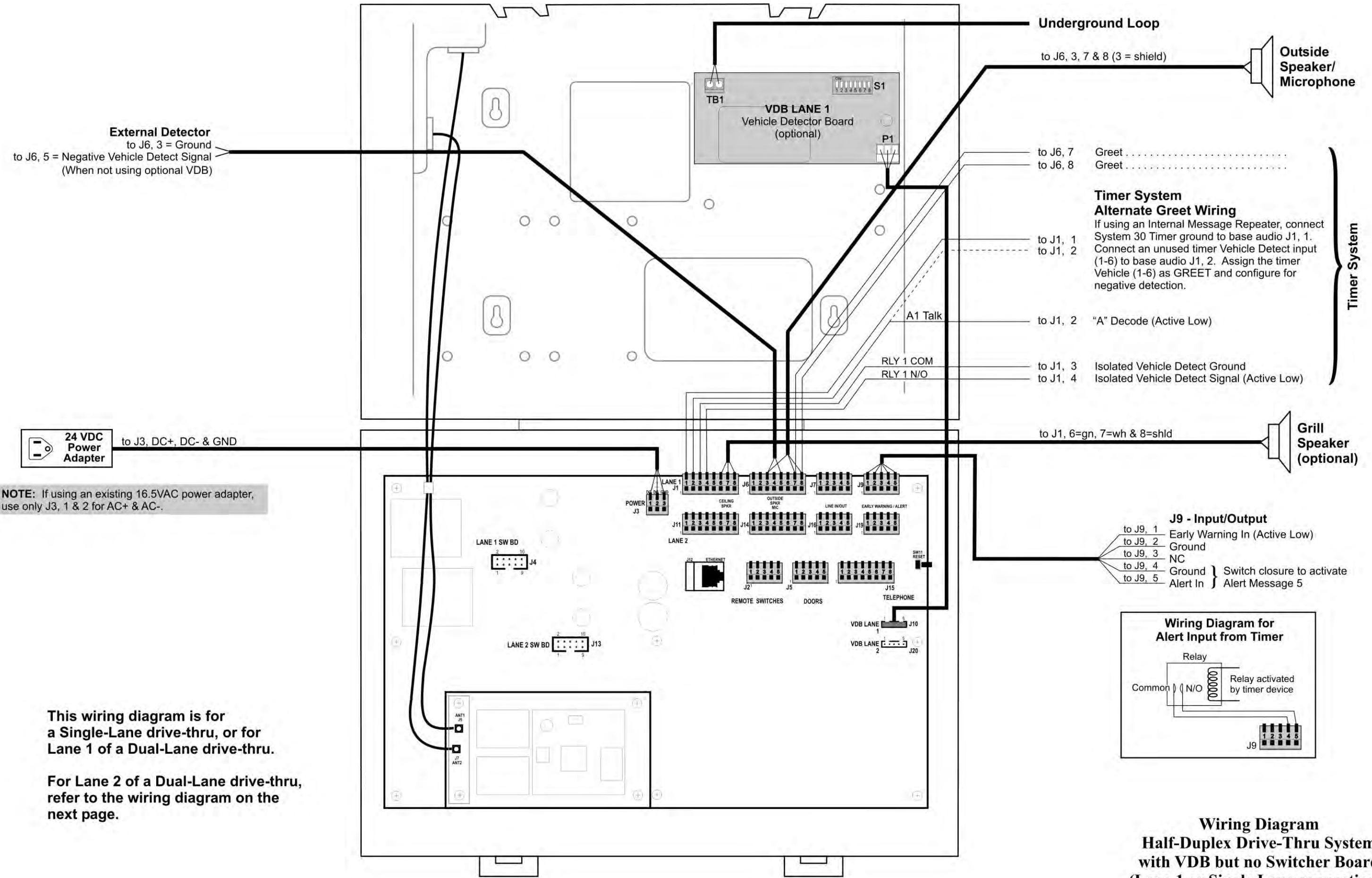
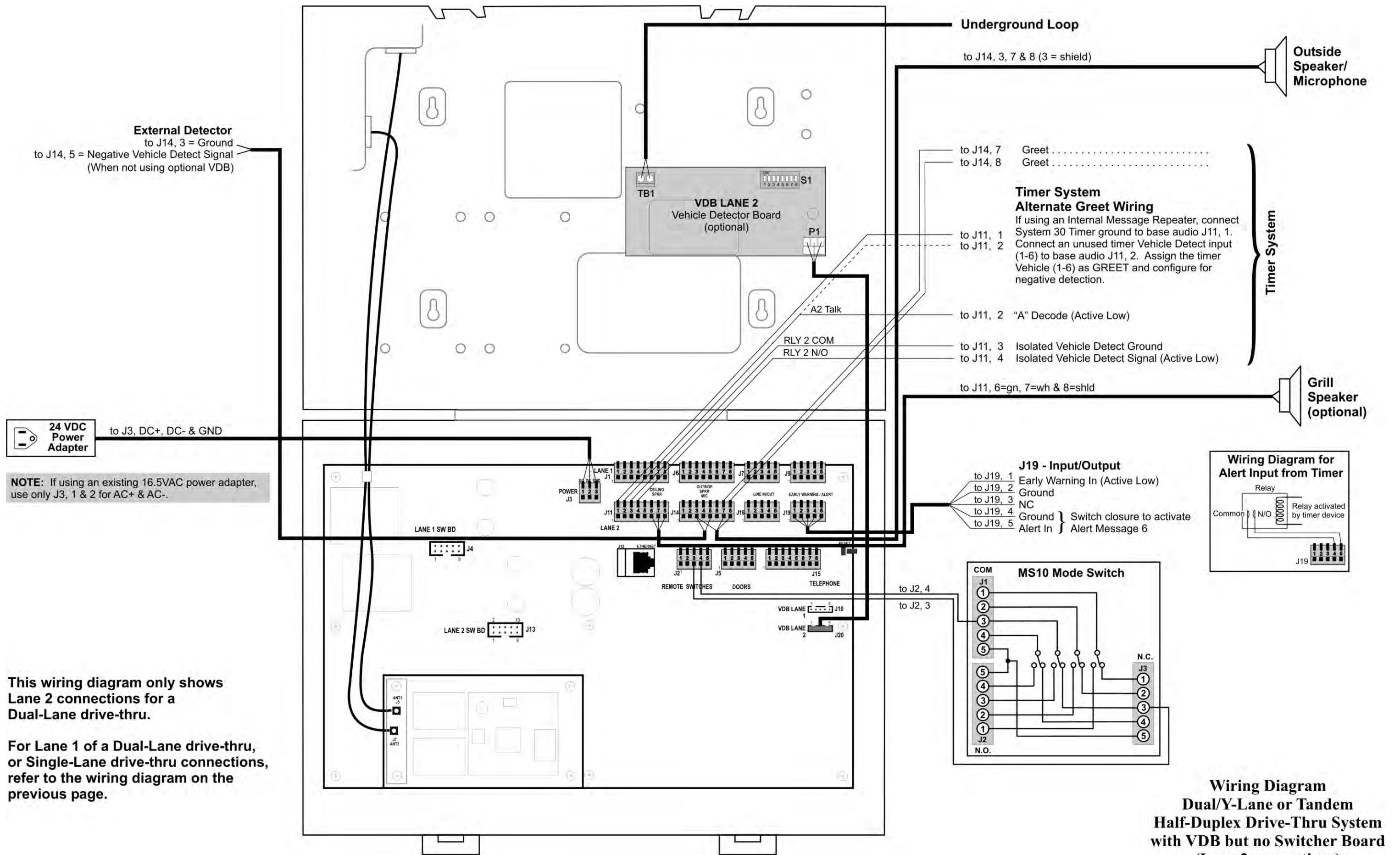


Figure 32.



This wiring diagram only shows Lane 2 connections for a Dual-Lane drive-thru.

For Lane 1 of a Dual-Lane drive-thru, or Single-Lane drive-thru connections, refer to the wiring diagram on the previous page.

Figure 33.

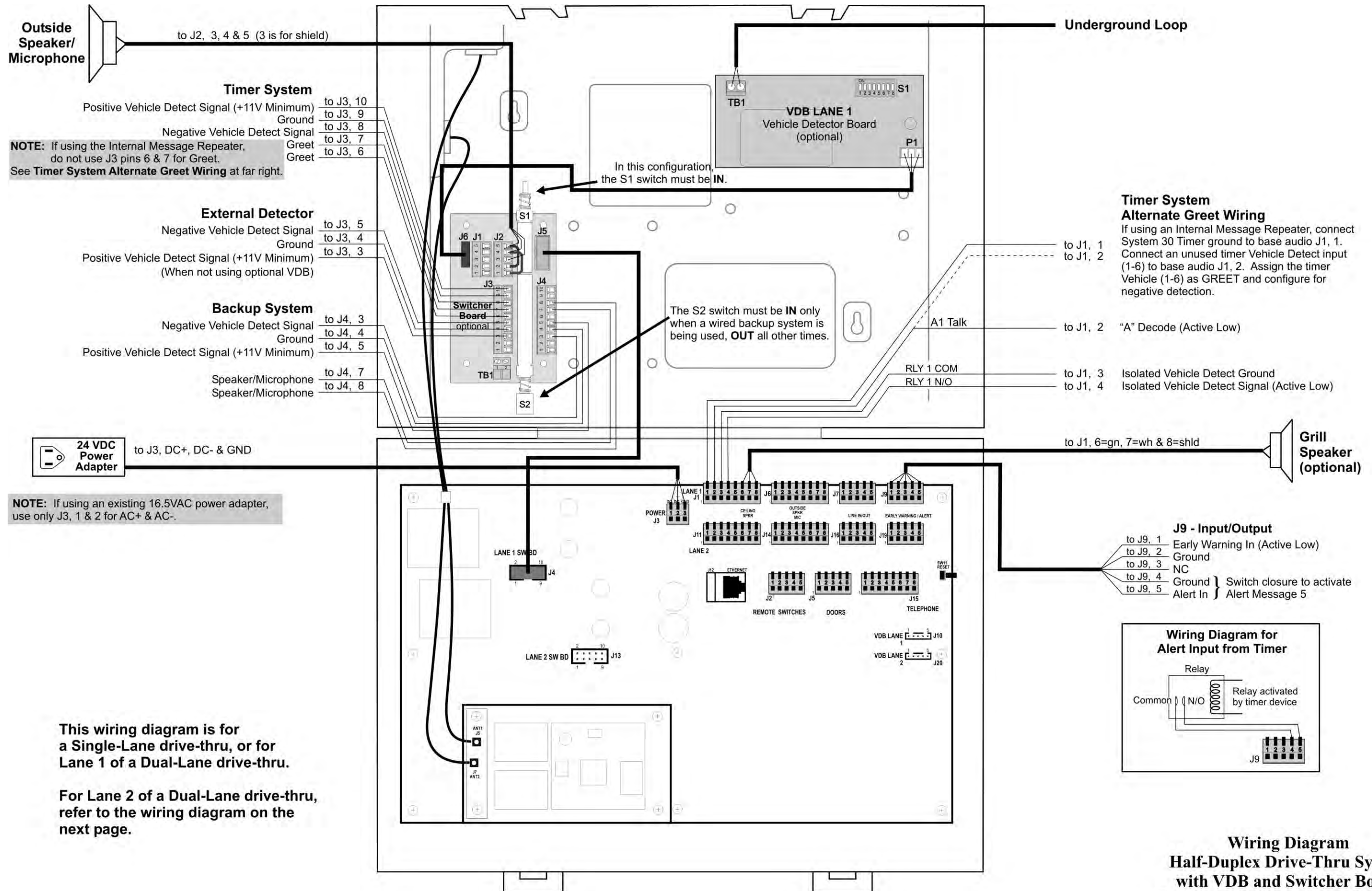
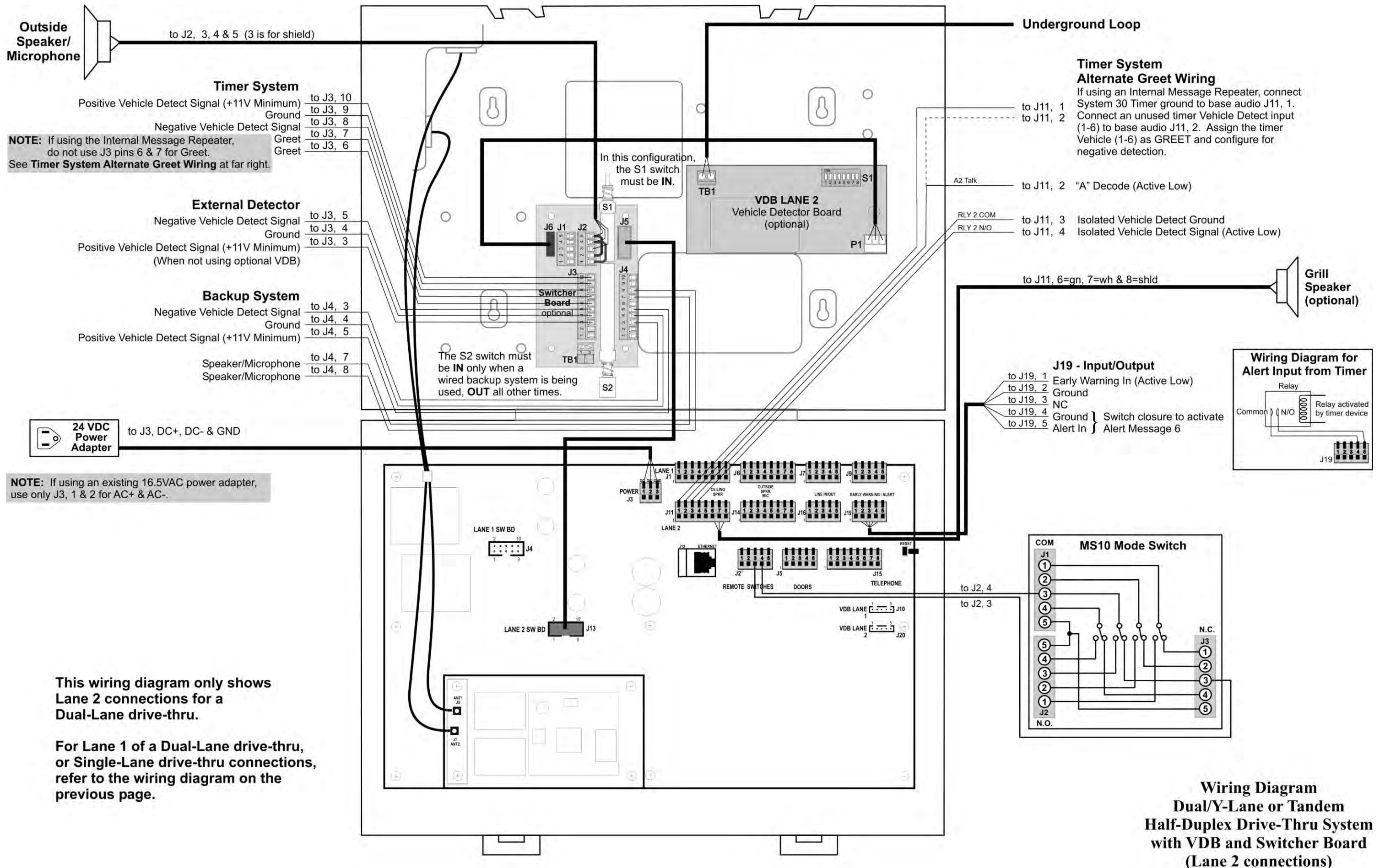


Figure 34.



This wiring diagram only shows Lane 2 connections for a Dual-Lane drive-thru.

For Lane 1 of a Dual-Lane drive-thru, or Single-Lane drive-thru connections, refer to the wiring diagram on the previous page.

Wiring Diagram Dual/Y-Lane or Tandem Half-Duplex Drive-Thru System with VDB and Switcher Board (Lane 2 connections)

Figure 35.

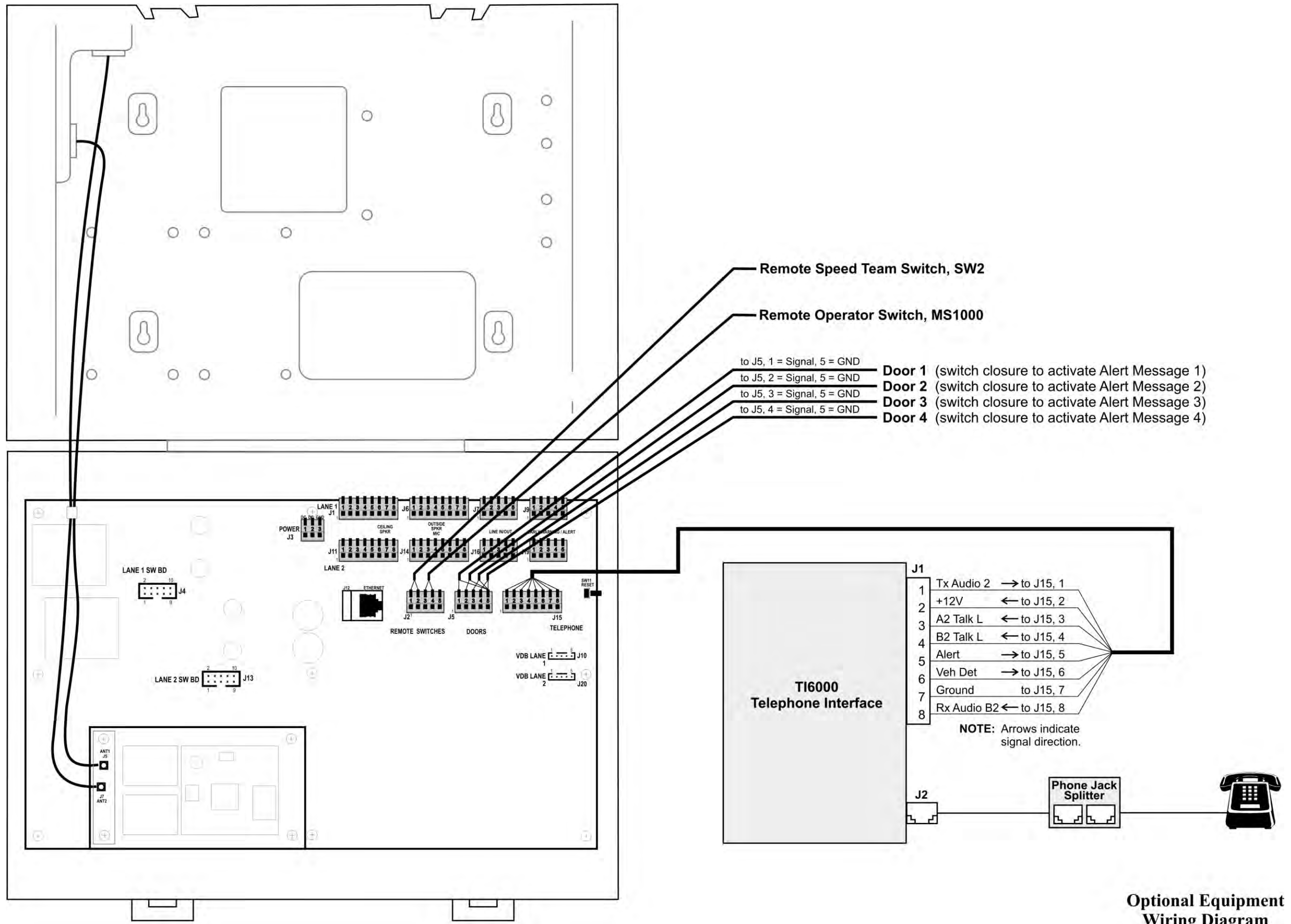


Figure 36.

Optional Equipment
Wiring Diagram

13. APPENDIX

13.1 Dual-Lane Installer Setup

13.1.1 Split B

For Dual/Y and Tandem operations only, the **Split B** feature is available.

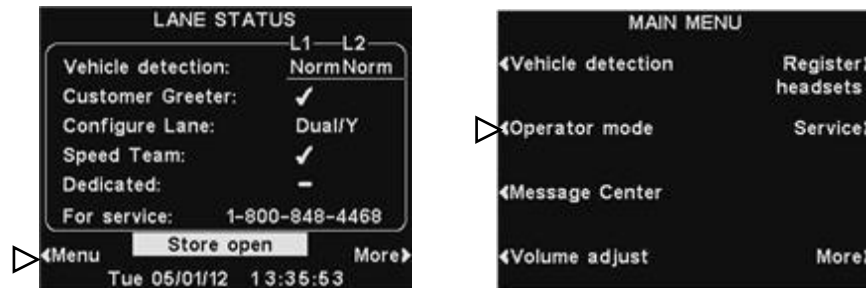
- If set to **Combined**, Lane 1 and Lane 2 operators can communicate over B channel.
- If set to **Split**, Lane 1 operators can only communicate over the Lane 1 - B channel, and Lane 2 operators can only communicate over the Lane 2 - B channel.

To select either **Combined** or **Split** communication, on the **INSTALLER SETUP** display, press the **Split B** button to highlight the desired mode.

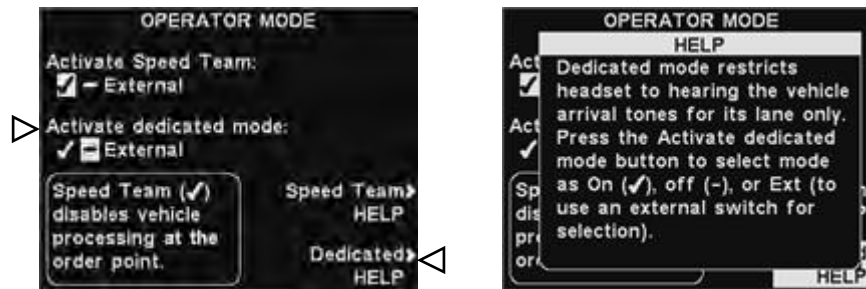


13.1.2 Dedicated Mode

In dual-lane operations only, an **Activate dedicated mode** setting appears on the **OPERATOR MODE** display. In the dedicated mode, headset users only hear vehicle arrival tones and audio for their own lane.



To set up dedicated mode operation, select **Menu** on the **LANE STATUS** display and then select **Operator mode** on the **MAIN MENU**.

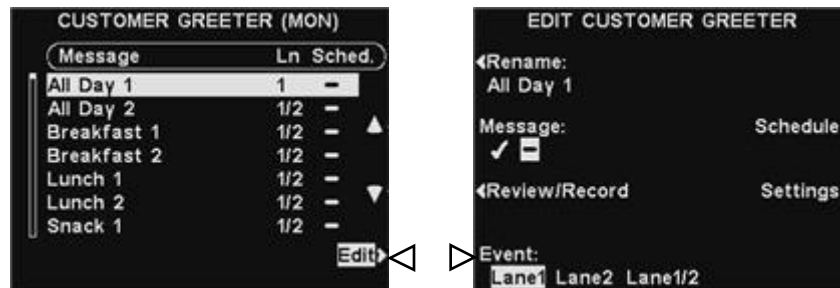


On the **OPERATOR MODE** display, press the **Activate dedicated mode** button to select **✓** (on). When you want to return to normal operation, you must select **-** (off). Press the **Dedicated HELP** button for additional explanation.

13.2 Dual-Lane Message Center Settings

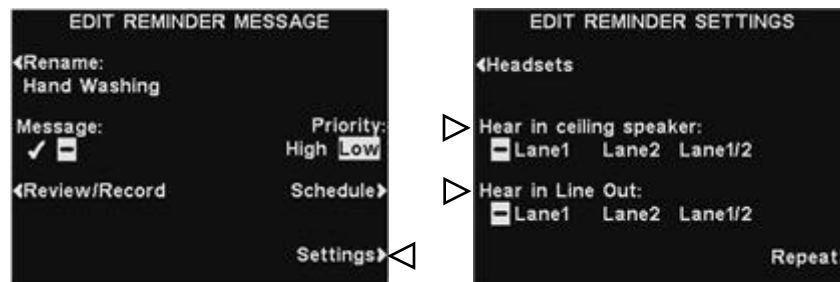
13.2.1 Customer Greeter Messages

In dual-lane operations, Customer Greeter messages can be set to play in Lane 1, Lane 2, or both Lanes 1 & 2. To do this, press the **Edit** button on the **CUSTOMER GREETER** display, and then press the **Event** button to highlight **Lane 1**, **Lane 2** or **Lane 1/2**.



13.2.2 Reminder Messages

In dual-lane operations, Reminder messages can be set to play in the ceiling speaker and Line Out for Lane 1, Lane 2, or both Lanes 1 & 2. To do this, press the **Settings** button on the **EDIT REMINDER MESSAGE** display and then, on the **EDIT REMINDER SETTINGS** display, press the **Hear in ceiling speaker** and **Hear in Line Out** buttons to highlight **Lane 1**, **Lane 2** or **Lane 1/2**.



13.2.3 Alert Messages

In dual-lane operations, Alert messages can be set to play in the ceiling speaker and Line Out for Lane 1, Lane 2, or both Lanes 1 & 2. To do this, press the **Settings** button on the **EDIT ALERT MESSAGE** display and then, on the **EDIT ALERT SETTINGS** display, press the **Hear in ceiling speaker** and **Hear in Line Out** buttons to highlight **Lane 1**, **Lane 2** or **Lane 1/2**.

