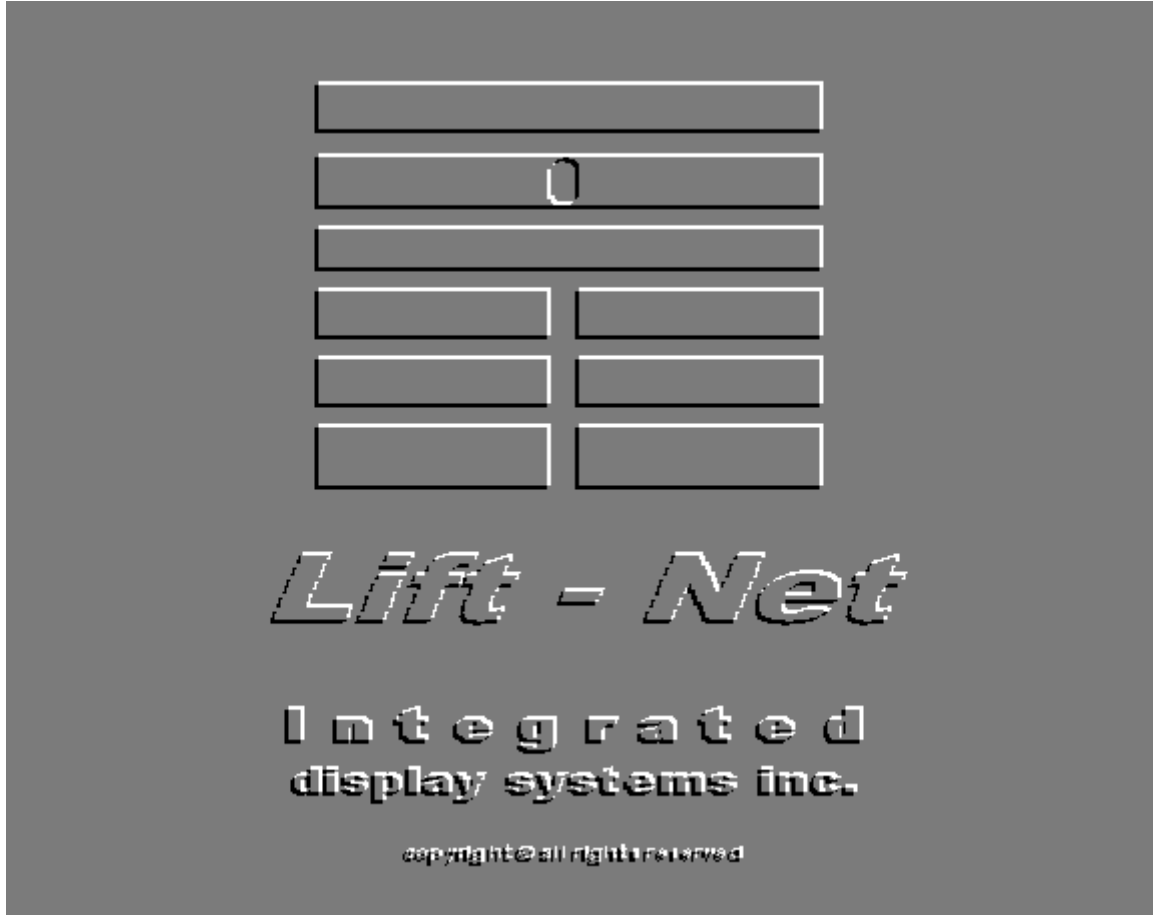


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WELCOME to Lift-Net

FRONT PAGE



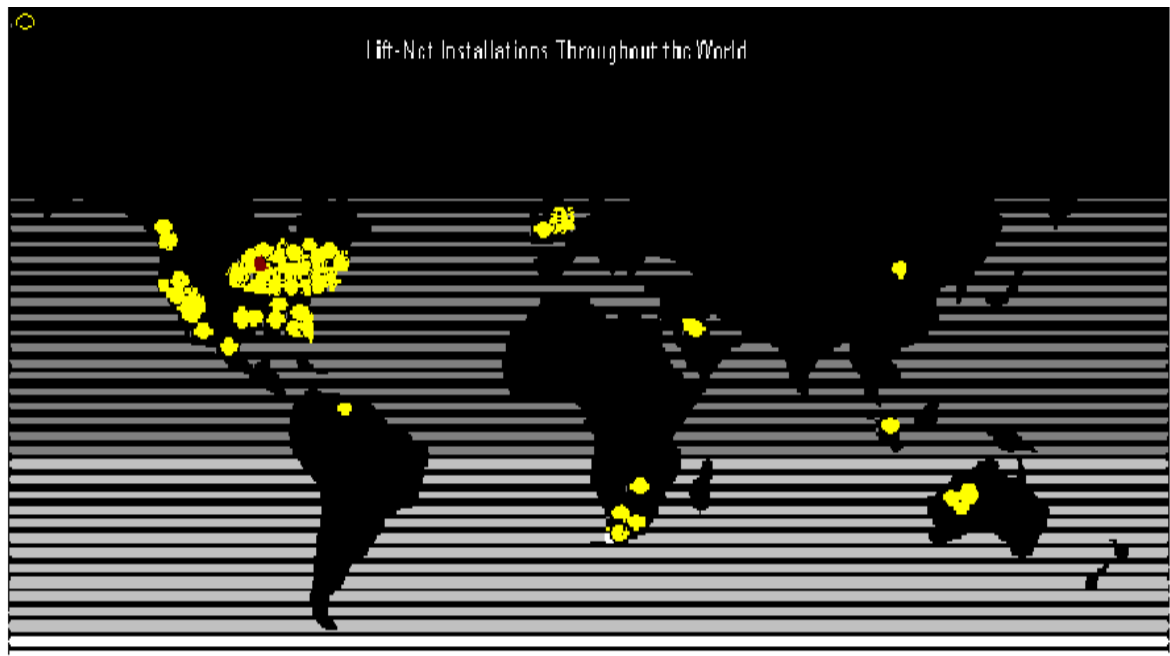
Lift-Net™

by integrated display systems inc.

On-Line User Manual

integrated display systems inc. © 1990-2002

Lift-Net WORLD WIDE



Let Us Put You in Touch With Your Elevators

www.lift-net.com

Integrated Display Systems Incorporated

1555 Sherman Avenue

Evanston, IL 60201

USA

847 475-2476

Lift-Net VOICE™

An extensive amount of R & D brought the Lift-Net Monitoring System into the leading position in the elevator market. With the experience accrued in this effort, Lift-Net Voice™ was introduced as a natural extension of the Lift-Net product line. There are currently two versions in production, the stand alone Lift-Net Voice, and Lift-Net Voice integrated with monitoring.

Conference Calls are easily established by any master station. A link to an outside telephone line is available for unattended locations. During a power failure the standard battery back-up system can power every station on the network from one location.

Lift-Net Voice (*with monitoring*) has the same networking capability and operates exactly as the stand alone system. With this advanced system any Lift-Net Monitoring Station is capable of being an indicating master station.

When there is an incoming call, an audible alert will be sounded through the computer speakers, and a Lift-Net Voice directory will pop-up on screen. The operator can mouse click to establish a connection with the caller. Out going calls are just as easily accomplished with a mouse click on the station of your choice.

Date, time, location, and duration of all calls are recorded to the monitoring station hard drive. The call information is processed and is available on screen or in printed form.

For the latest information on Lift-Net products visit our website at www.lift-net.com

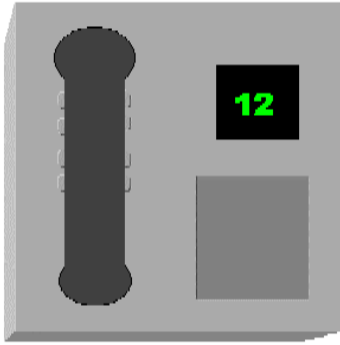
ground at the phone box

2. Plug a modular cord from the Port modular plug terminal block, to the jack marked "Line 1 and 2 "on the Non-Indicating Master.

Shielding must be continuous and grounded at the voice controller only

To insure clear static free audio quality we require that all wiring from the master station all the way to the voice controller be high quality shielded twisted pair. All splices or termination's in the line must have the shield spliced also, and grounded in one place only, the voice controller.

To prevent noise and AC hum Lift-Net Voice wires must not be run in the same raceway with high voltage wiring.



Indicating Master Station

When wiring from the Voice Controller to an Indicating Master Station the digital noise from the display can bleed into the Local Service wires.

Important: To prevent digital noise from bleeding into the voice wiring always run the Com Out (*data*) and the Local Service (*voice*) wires in separate cables

When in close proximity, direct connections between the Voice Controller and the Master Station can be made using the supplied 4 wire modular cords with RJ-11 connectors, eliminating the modular plug terminal blocks

Refer to Lift-Net Voice Wiring Layout sheets.

1. Remove the Phillips head screws from the faceplate of the phone box. Carefully lift the faceplate and phone assembly from the box .
2. Install the box in the recess provided or, mount to the wall with anchors suitable for the application. Route the shielded twisted "pair A" (*data*) into the box, taking care not to kink or pinch the insulation.
3. Attach the twisted "pair A" (*data*) to the Com Out terminal block of the phone assembly.

Connect the positive (+) wire from pair "A" to the green wire terminal.

Connect the negative (-) wire from pair "A" to the red wire terminal.

Tape the shield and other wires to prevent shorts. Do Not attach the shield to ground at the phone box.

4. Attach the twisted "pair B" (*voice*) to the Local Service terminal block of the phone assembly.

Connect the positive (+) wire from pair "B" to the green wire terminal.

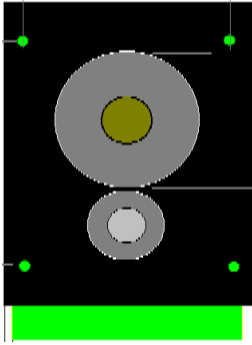
Connect the negative (-) wire from pair "B" to the red wire terminal.

Tape the shield and other wires to prevent shorts. Do Not attach the shield to ground at the phone box.

Shielding must be continuous and grounded at the voice controller only

To insure clear static free audio quality we require that all wiring from the master station all the way to the voice controller be high quality shielded twisted pair. All splices or termination's in the line must have the shield spliced also, and grounded in one place only, the voice controller.

To prevent noise and AC hum Lift-Net Voice wires must not be run in the same raceway with high voltage wiring.



Elevator Car Station Model

1. Mount the speakerphone to the backside of the elevator car station with the four studs provided by the cab manufacturer. (fig. B)
2. When studs have not been provided, apply heavy duty VELCRO (*available at Radio Shack*) to the speaker and microphone side of the elevator speakerphone. Apply the opposite side of the VELCRO to the inside of the elevator car station.
3. Center the speaker and microphone over the grill or hole pattern on the car station. Attach by pressing together firmly. (fig. B)
4. From the car side Insert the red bezel into the 1/4" hole provided by the cab manufacturer. Insert the LED into the bezel, when inserted properly it should grip the LED.
5. Plug the LED into the connector marked "P6". The plug can only be inserted one way. (fig. A)
6. Attach the twisted "pair C" (voice) to the terminal block labeled "TELCO". (fig. A)
Connect the positive (+) wire from pair "C" to the (+) positive terminal.
Connect the negative (-) wire from pair "C" to the (-) negative terminal.
7. Tape the shield and other wires to prevent shorts. Do Not attach the shield to ground at the car station.

Shielding must be continuous and grounded at the voice controller only

8. Connect the wires from the car station "Call Button" to the connector marked "EXT ON/OFF". (fig. A)

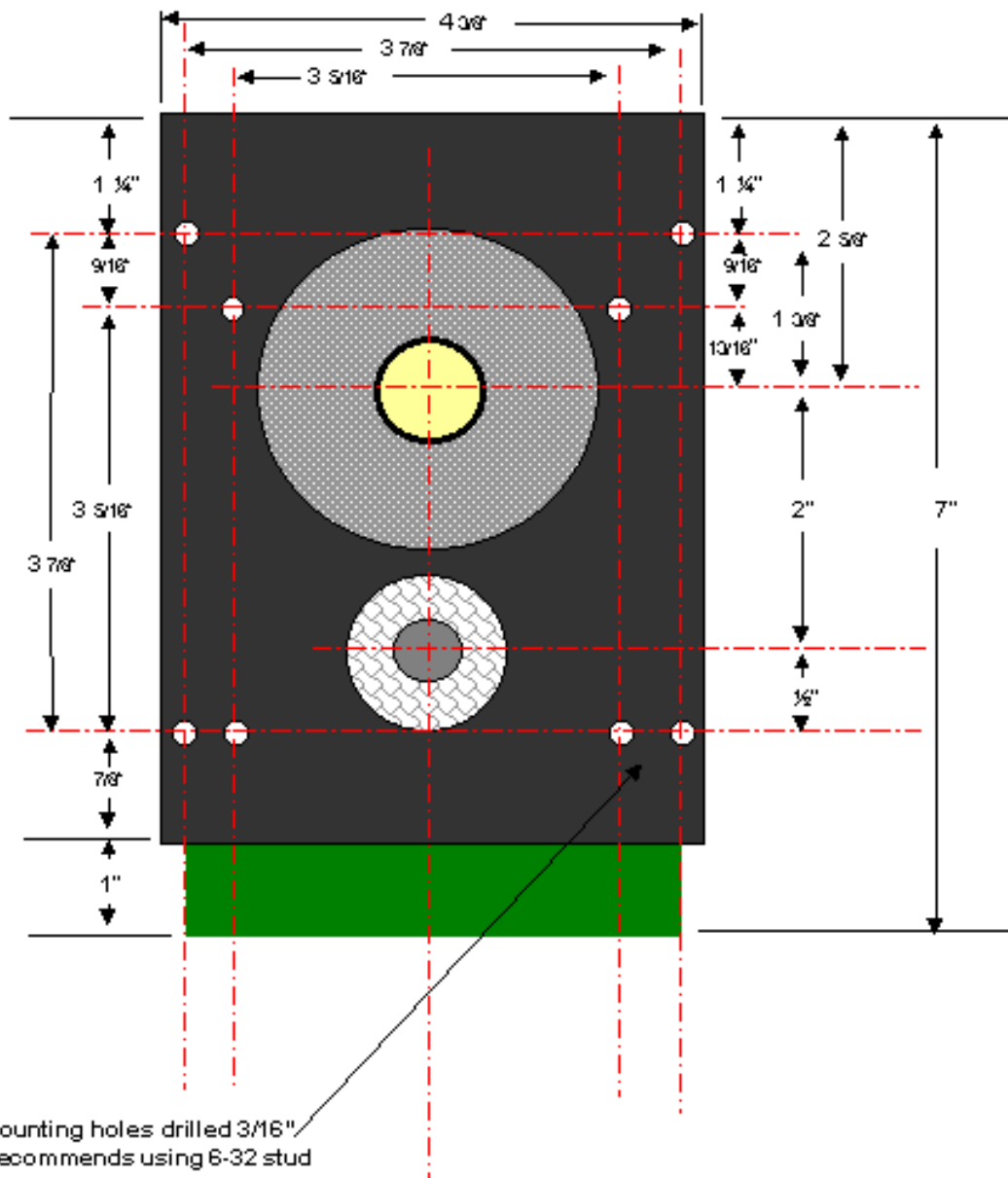
To insure clear static free audio quality we require that all wiring from the car station through the traveling cables and all the way to the voice controller be high quality shielded twisted pair. All splices or termination's in the line must have the shield spliced also, and grounded in one place only, the voice controller.

Car Station Speakerphone

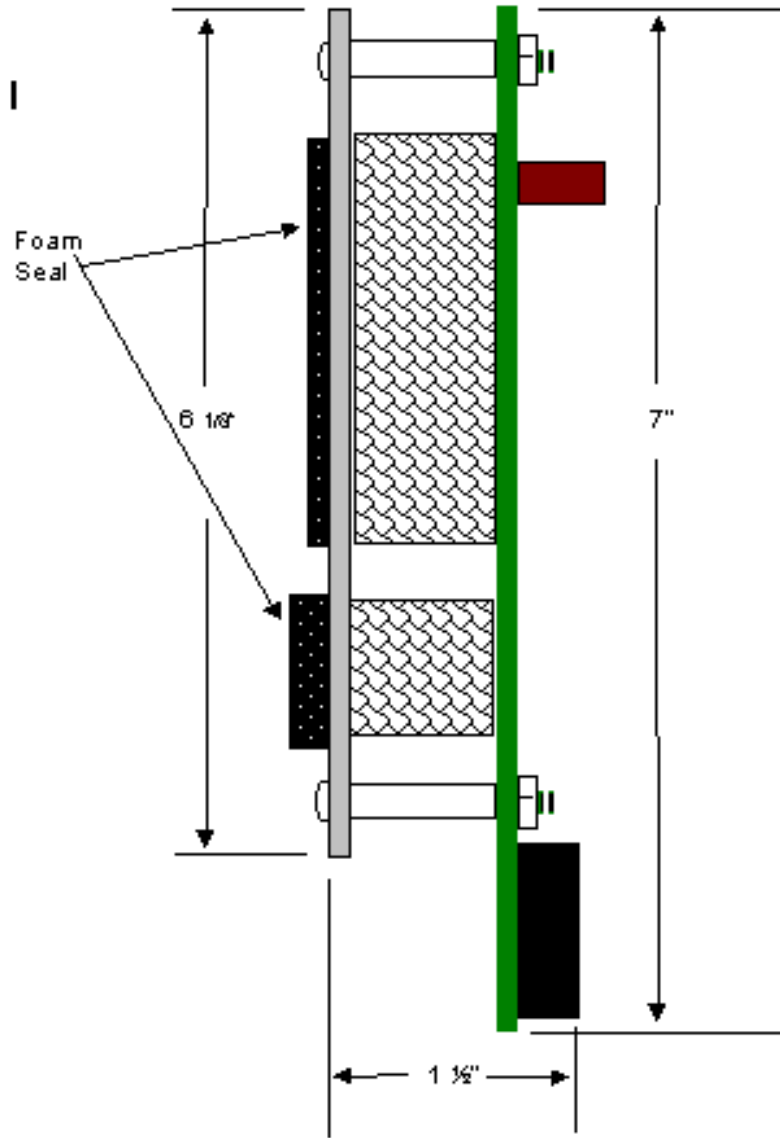
Dimensions Fig. B

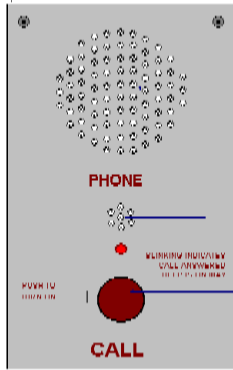
When mounting to inside of car panel use heavy duty Velcro, or 6 -32 x 3/4" mounting studs welded to car panel.

Car panel must have a series of holes or slots for the speaker (2 inches) and microphone (1/8 inch).



Side View





Surface Mount Model

1. Remove the 2 tamperproof Allen head screws at the top of the surface mount speakerphone. Carefully swing the front panel down and detach from the box. (fig. C).
2. Attach the box to the wall with anchors suitable for the application. Route the shielded twisted "pair C" into the box, taking care not to kink or pinch the insulation.
3. Attach the twisted "pair C" (voice) to the terminal block labeled "TelCo". (fig. A)
Connect the positive (+) wire from pair "C" to the (+) positive terminal.
Connect the negative (-) wire from pair "C" to the (-) negative terminal.
4. Tape the shield and other wires to prevent shorts. Do Not attach the shield to ground at the speakerphone box.

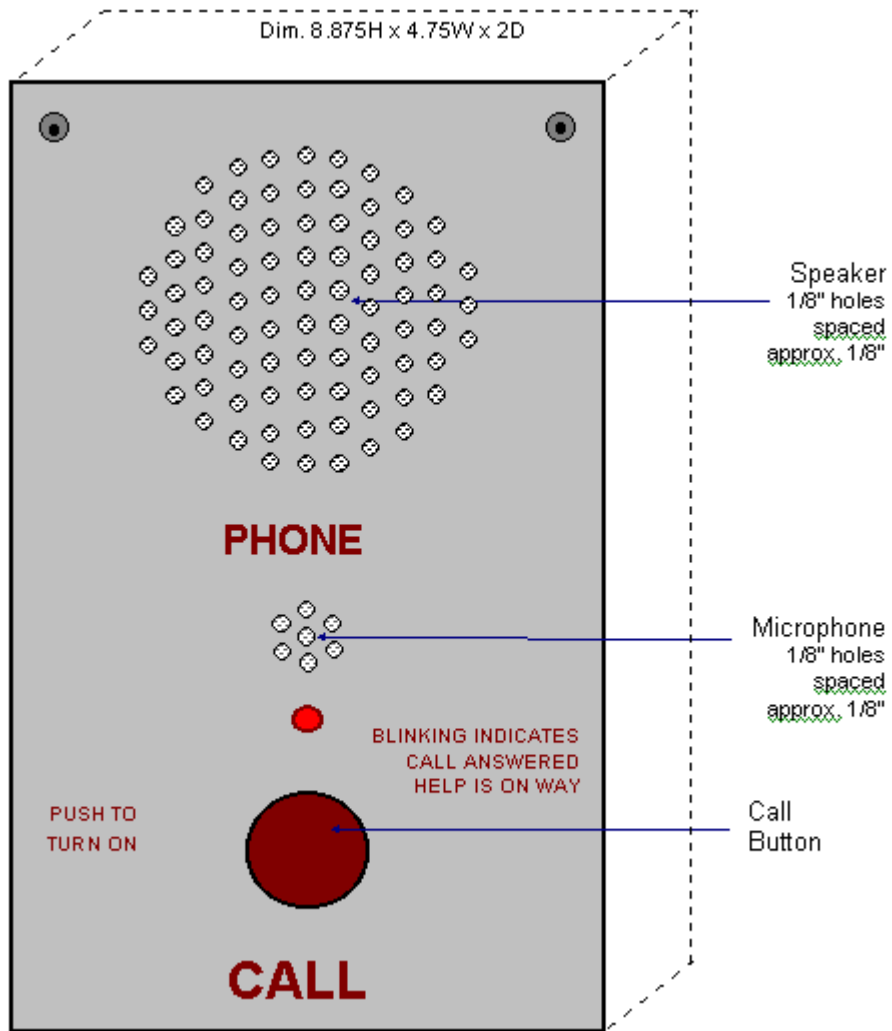
Shielding must be continuous and grounded at the voice controller only

5. Attach the faceplate and fasten with the screws removed in step 1.

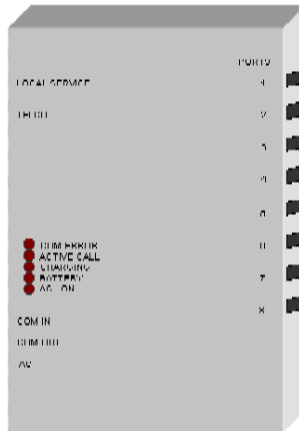
To insure clear static free audio quality we require that all wiring from the remote station all the way to the voice controller be high quality shielded twisted pair. All splices or termination's in the line must have the shield spliced also, and grounded in one place only, the voice controller.

To prevent noise and AC hum Lift-Net Voice wires must not be run in the same raceway with high voltage wiring.

Surface Mount Vandal Resistant -ADA Compliant Figure C



Voice Controller



The voice controller(s) is the heart of the Lift-Net Voice. A twisted-pair from each station on the network must come here. Consider this when choosing a location. (see fig. E)

Multiple Voice Controllers Only: It is important to mount all Voice Controllers in the same place.

1. Mount the Voice Controller box to the wall with anchors suitable for the application. Mount modular plug junction boxes in a convenient location to connect with the appropriate ports on the voice controller.
2. Connect the twisted "pair C" (voice) to the terminal block for the appropriate station. **For example the twisted pair from car #1 goes to port #1 on the first (primary) voice controller.** (fig. E)

Connect the positive (+) wire from pair "C" to the terminal with the red wire.

Connect the negative (-) wire from pair "C" to the terminal with the green wire.

Connect the shield to chassis ground at the voice controller only.

3. Repeat step 2 until all speakerphones and master stations are connected.

Shielding must be continuous and grounded at the voice controller only

WHEN CONNECTING ONE VOICE CONTROLLER TO ANOTHER THE COM OUT WIRE GOES TO THE COM IN PLUG OF THE NEXT VOICE CONTROLLER. SEE FIGURE "E"

4. Connect the twisted "pair A" to the "com out" (data) terminal block located near the voice controller. (fig. E)

Connect the positive (+) wire from pair "A" to the terminal with the red wire (+).

Connect the negative (-) wire from pair "A" to the terminal with the green (-).

Connect the shield to chassis ground. at the voice controller only.

WHEN CONNECTING ONE VOICE CONTROLLER TO ANOTHER THE LOCAL SERVICE WIRE GOES TO THE TELCO PLUG OF THE NEXT VOICE CONTROLLER. SEE FIGURE "E"

5. Attach the twisted "pair B" to the "local service" terminal block located near the voice controller. (fig. E)

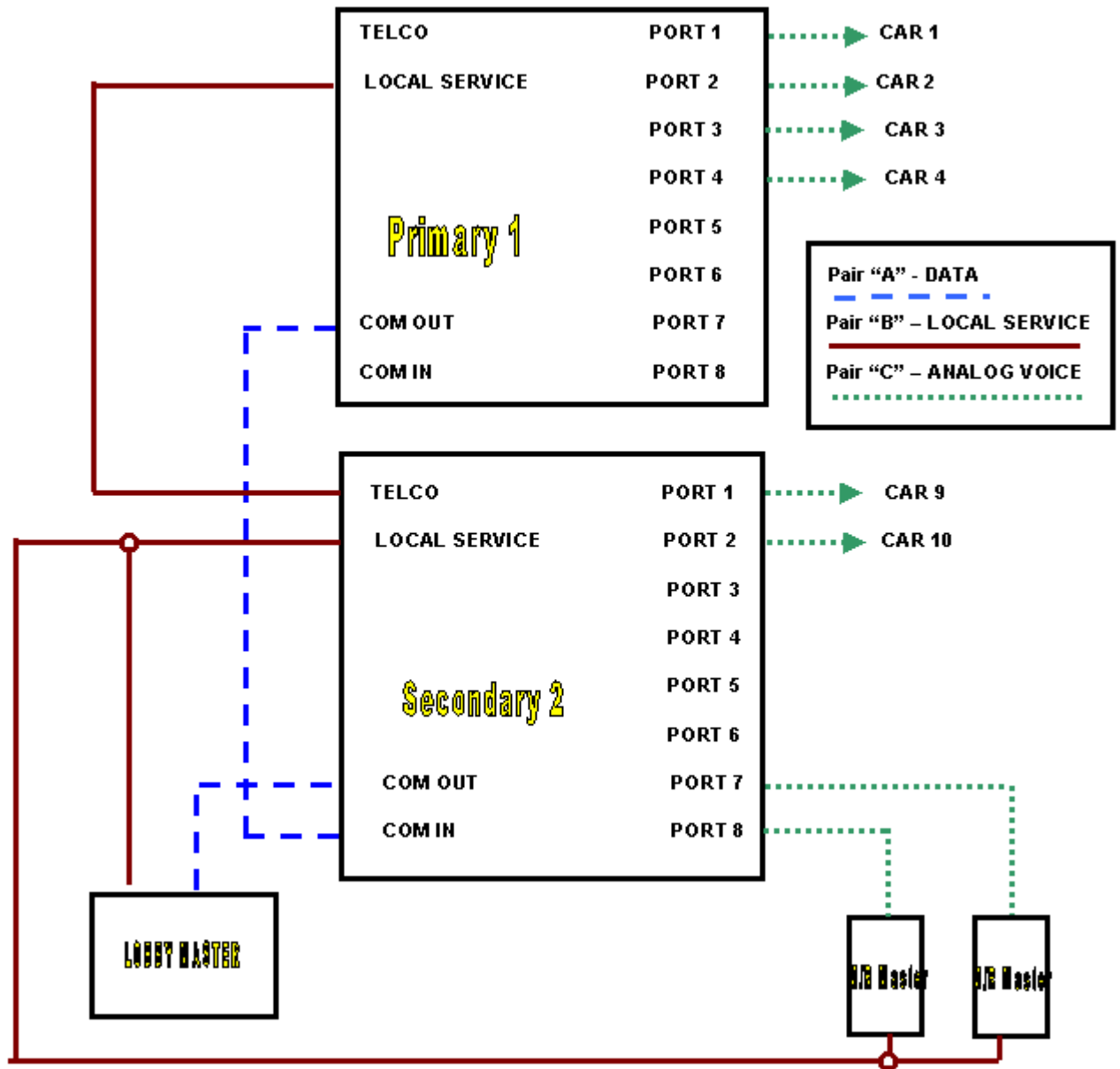
Connect the positive (+) wire from pair "B" to the terminal with the red wire (+).

Connect the negative (-) wire from pair "B" to the terminal with the green wire (-).

Connect the shield to chassis ground at the voice controller only.

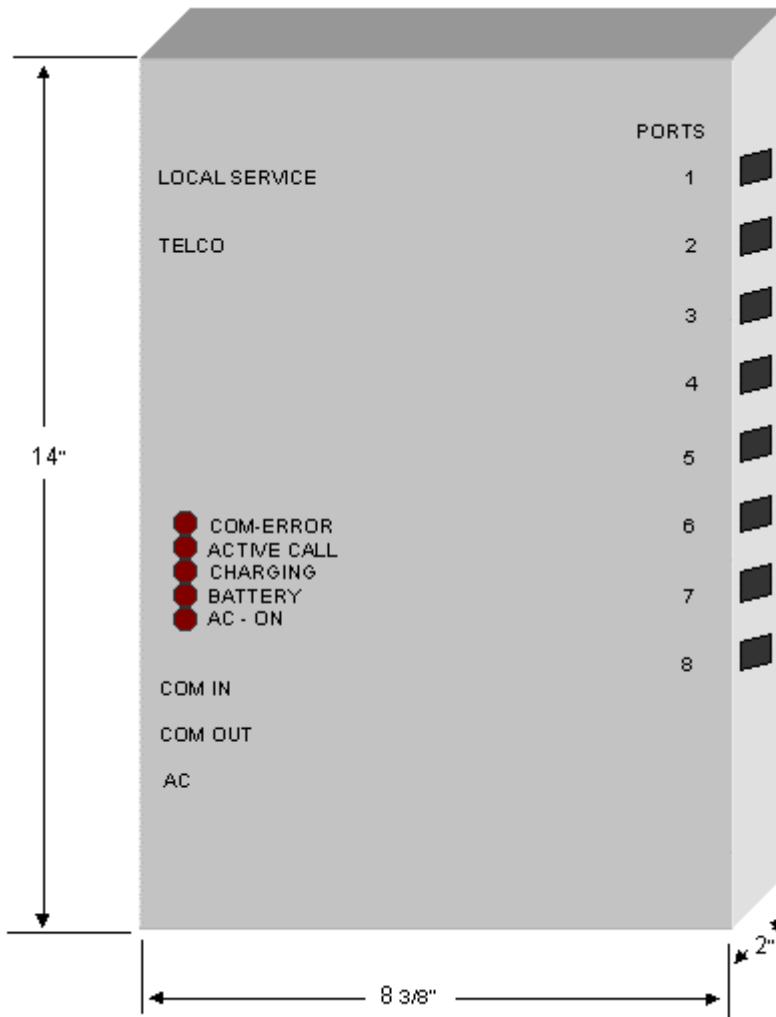
6. Connect the modular plug terminal boxes to the Voice Controller with the provided modular cords.

Voice Controller Wiring Layout Figure E



Voice Controller Dimensions

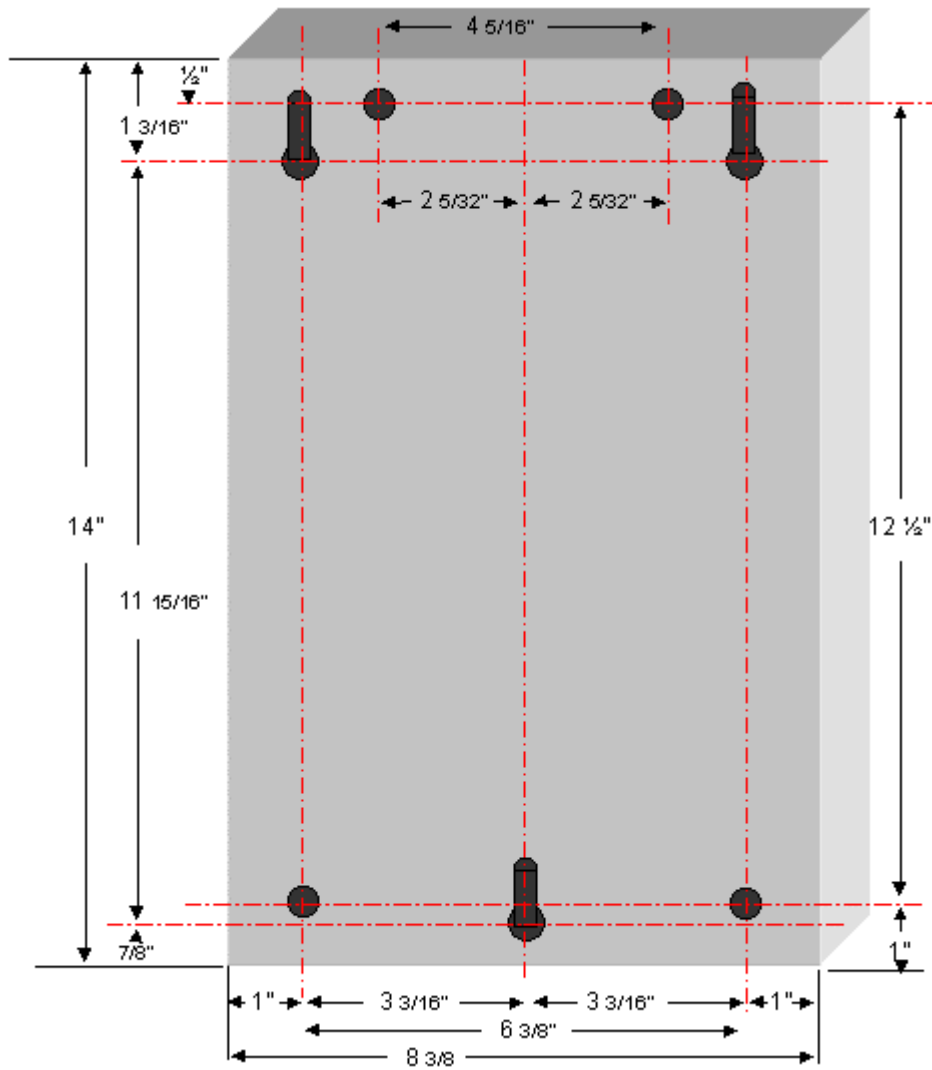
Front View



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Voice Controller Dimensions

Rear View



PROGRAMMING SPEAKERPHONES

Refer to figure "A"

Lift-Net speakerphones are shipped pre-programmed. **Programming is not necessary - Skip to Programming the Voice Controllers.** Speakerphones **will not** lose programming if disconnected from the power source.

TO ALTER THE DEFAULT PROGRAM SETTINGS

1. Connect a 9 volt battery to the battery connector.
2. Plug a touch tone phone into the modular jack. (RJ11)
3. Unplug the speaker.
4. Short the two pins located at jumper block "M3".
5. Press the "CALL" button or short the two pins at the "EXT ON/OFF" connector pins.
6. Check that the red alert light turns on. If the red light does not turn on go back to step 4.
7. With the touch tone phone used for programming listen for the speakerphone to dial.
8. Two seconds after the speakerphone dials listen for a tone, a two second pause, then a pre-recorded voice message with a tone at the end.
9. Immediately after the tone at the end of the voice message press "1" on the touch tone phone.
10. Use the touch tone phone to listen. If the voice message is continuously cycling return to step 4, if it is not go to step 11.

Press the programming phone's touch tone keys slow and deliberate, too slow is ignored, too fast cannot be read.

11. Press **# 9 4 8 5 1** listen for 3 beeps.
12. Press **# 0 * #** listen for 3 beeps.

13. Press **# 1 * #** listen for 3 beeps.
14. Press **# 7** listen for 1 beep. Record the location message using the touch tone phone's handset. *Example: "This is elevator number 9".* **Immediately after recording the message press 0 (zero).** The voice message will playback and you will hear 3 beeps.
15. Press **# 8** to listen to the message. Press **# 7** to re-record.
16. To disable the voice message press **# * 1180180 * #** listen for 3 beeps
17. Press **# #** listen for a beep then the speakerphone will turn off.
Programming is complete.
18. Reconnect the speaker. The plug can only be inserted one way.
19. Unplug the touch tone phone used for programming.

To Disable the Voice Prompt Message - The voice prompt message says "At the tone press one to talk, press two for location."

1. Press **# 9 4 8 5 1** listen for 3 beeps
2. Press **# * 1 1 8 0 1 8 0 * #** listen for 3 beeps
3. Press **# #**

To Disable the Voice Prompt Message and Delay the Voice Location Message - The voice prompt message says "At the tone press one to talk, press two for location." The location message is what was programmed in step 14 programming Speakerphones.

1. Press **# 9 4 8 5 1** listen for 3 beeps
2. Press **# * 1 1 8 0 1 8 5 * #** listen for 3 beeps
3. Press **# #**

To Enable the Voice Prompt Message - The voice prompt message says "At the tone press one to talk, press two for location."

1. Press **# 9 4 8 5 1** listen for 3 beeps
2. Press **# * 1 1 8 0 1 8 1 * #** listen for 3 beeps
3. Program location message (*see step 14*)
4. Press **# #**

To Increase the Time Before Hang-Up - Increase the time from 3 minutes to 4.5 minutes.

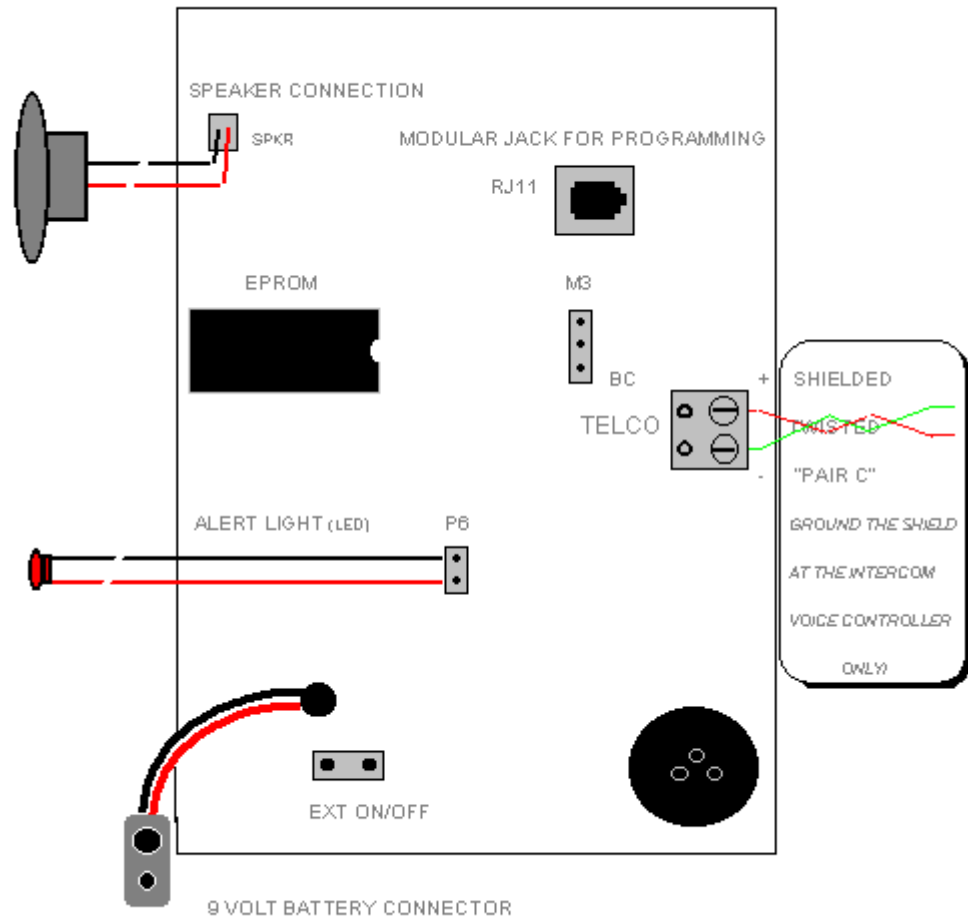
1. Press # 9 4 8 5 1 listen for 3 beeps
2. Press # * 1 2 5 5 1 8 0 * # listen for 3 beeps
3. Press # #

To Disable Autodialing

1. Press # 9 4 8 5 1 listen for 3 beeps
2. Press # 0 * # listen for 3 beeps.
3. Press # 1 * # listen for 3 beeps.
4. Press # 2 * # listen for 3 beeps.
5. Press # 3 * # listen for 3 beeps.
6. Press # #

speakerphone details

figure a



Programming the Voice Controllers

Only the first or "Primary" Voice Controller needs to be programmed.

A "Primary" Voice Controller can be identified by locating the pin jumpers at locations E1, E2 and E3.

Jumpers E1 and E2 are located 2" to the right of the Com Out port.

Jumper E3 is located 1" from the top left corner.

A PRIMARY UNIT WILL NOT HAVE JUMPERS AT LOCATIONS E1, E2 OR E3.

SECONDARY UNITS WILL HAVE JUMPERS AT LOCATIONS E1 AND E3.

1. Plug a touch tone phone into the port on the voice controller marked "Local Service".
2. Pick up the handset and enter the pass code ** 0 8 6 0 1 Listen for three beeps.
3. Press * 1 1 8 5 # Listen for three beeps.
4. Press # # to End Programming. Listen for six beeps.

Reprogramming the Voice Controller

Any Primary Voice Controller can be made into a Secondary Voice Controller

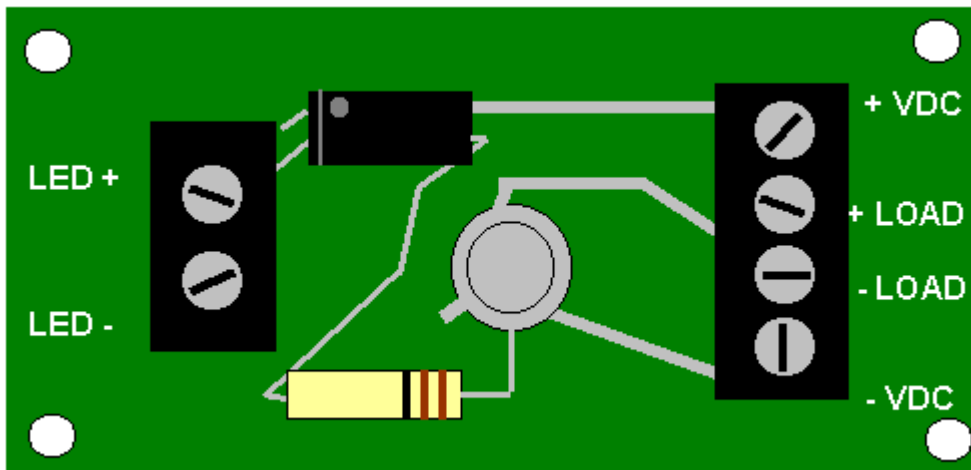
To make a Secondary unit Into a Primary unit.

1. Remove the jumpers at locations E1 and E3
2. Press the reset button located above the column of LED's.

To make a Primary unit into a Secondary unit

1. Remove all jumpers at E1, E2 and E3.
2. Access programming mode by plugging a touch tone phone into the port marked "Local Service" on the Voice Controller.
3. Pick up the handset and enter the pass code ** 0 8 6 0 1 Listen for three beeps.
4. Enter * 6 S # where "S" represents the order (number) of the Secondary unit. For example if it were the second unit "S" would represent 1, if it were the third unit "S" would represent 2, etc. Listen for three beeps. (fig. E)
5. Press # # to End Programming. Listen for six beeps.
6. Hang up the handset and place a jumper at location E1 and E3.
7. Press the reset button located above the column of LED's.

CALL ACKNOWLEDGED INDICATOR



The Lift-Net Voice Opto Board is used when the Call Acknowledged LED supplied with the speakerphone is not bright enough. When ambient light is high, or the LED must illuminate a jewel an ultra-bright LED or a miniature lamp may be needed.

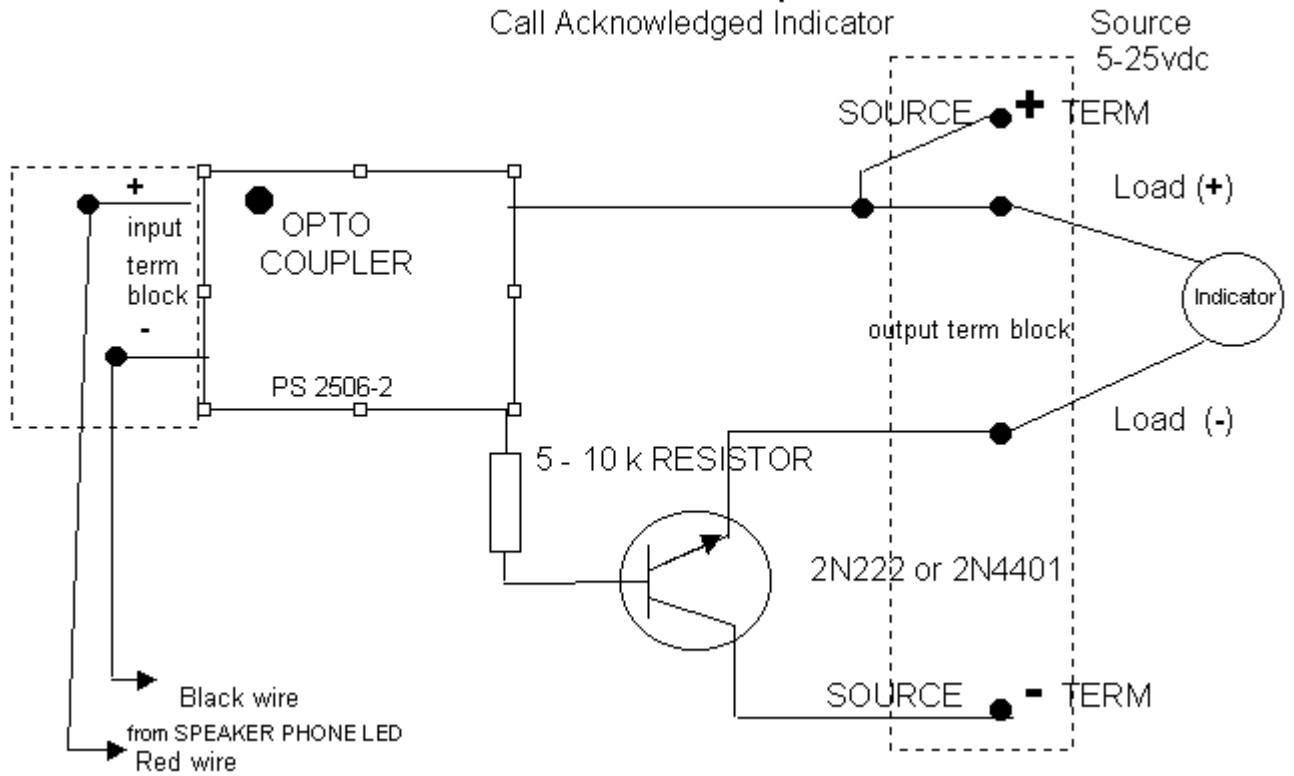
Since the output from the speakerphone LED is of such low current we cannot drive a high current (bright) indicator. It becomes necessary to use an opto coupler to sense the low current which turns on a transistor that switches the high current to our indicator. The Voice Opto Board allows a variety of indicators to be used.

1. Cut off the existing speakerphone Call Acknowledged LED. Cut the wires off at the LED side not the plug side.
2. Connect wires cut in step 1 to the 2 wire input terminal block on the Opto Board, observe polarity see drawing above.
3. Connect a 5-24 power source (the emergency light battery is a good source) to the (+) pos. source terminal of the 4 wire output terminal block on the Opto Board.
4. Connect the common side of the power supply to the (-) neg. source side of the 4 wire output terminal block on the Opto Board.
5. Connect the new Call Acknowledged LED or lamp to the Load terminals on the 4 wire output terminal block, observe polarity see drawing above.

Note: Use a lamp or LED appropriate for the voltage connected to the Source terminals.

Lift-Net Voice Opto Board

Call Acknowledged Indicator



BATTERY BACK-UP

Lift-Net Speakerphones are equipped with a 9 volt battery jack (*fig. A*).

Any 9 volt battery will work however, Lift-Net recommends using a Ni-Cad or Ni-MH rechargeable battery and placing a jumper on terminals "BC" to enable trickle charging.

Lift-Net Speakerphones are powered by the 12 volt power supply located in the Voice Controller. A 9 volt rechargeable battery at each speakerphone is recommended to provide reliable connections under all operating conditions.

Speakerphone Auxiliary Battery

Lift-net Voice installations with many remote units, may require a 9 volt aux. battery in some speakerphones. The additional power from the aux. battery insures a reliable connection where several phones are ganged to the same line (*contact tech support 847 475-2476*).

Configure Speakerphone for Trickle Charging

Place a pin jumper over the pins marked "BC", enable trickle charging (*fig. A*). When using a jumper on pins "BC" it is important to replace only with NI-CAD or NI-MH rechargeable batteries.

Voice Controller Battery Backup

Lift-Net Voice Controllers are fitted with a 12 volt battery that is activated on loss of AC power. This configuration will provide battery backup for all speakerphones and master stations on the Voice network for up to 4 hours.

*Check Batteries every 6 months, **replace every eight years***

Important when using a pin jumper on BC *replace speakerphone battery with Nickel Cadmium (NI-CAD) or Nickel Metal Hydride (NI-MH) rechargeable batteries only.*

WIRING CONSIDERATIONS VOICE

Indicating Master Stations

When wiring from the Voice Controller to an Indicating Master Station the digital noise from the display can bleed into the Local Service wires.

Important: To prevent digital noise from bleeding into the voice wiring always run the Com Out and the Local Service wires in separate cables

Multiple Voice Controllers Only:

When more than one Voice Controller is required the master stations Local Service and Com Out wires must go to the last Voice Controller. **see Voice Wiring Layout**

Grounding and Shields

Shielding must be continuous and grounded at the voice controller only. All splices or termination's in the line must have the shield spliced also, and grounded in one place only, the voice controller.

To prevent noise and AC hum Lift-Net Voice wires must not be run in the same raceway with high voltage wiring.

NOTE:

To insure the best possible data and voice quality we require that all wiring be high quality shielded twisted pair. Such as the following available from Newark Electronics.

Manufacturer - CDT (Cable Design Technologies)

Manufacturer's type # - M54783-1000-GRY (Grey non plenum rated 1000' spool)

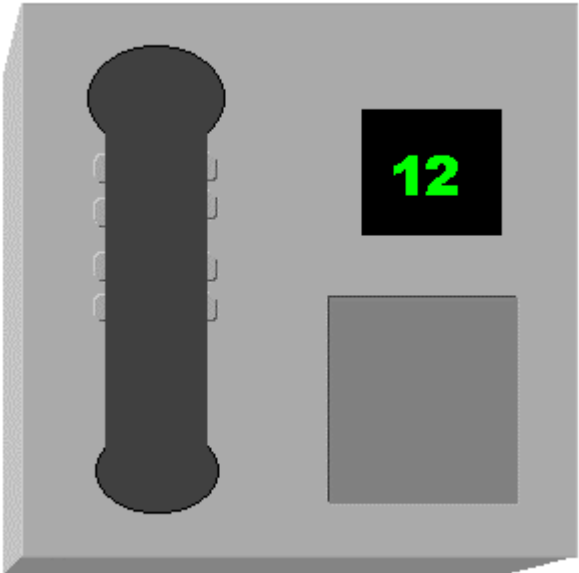
Newark Stock # - 91F9290

Manufacturer's type # - M55082-1000-GRY (Grey plenum rated 1000' spool)

Newark Stock # - 91F9294

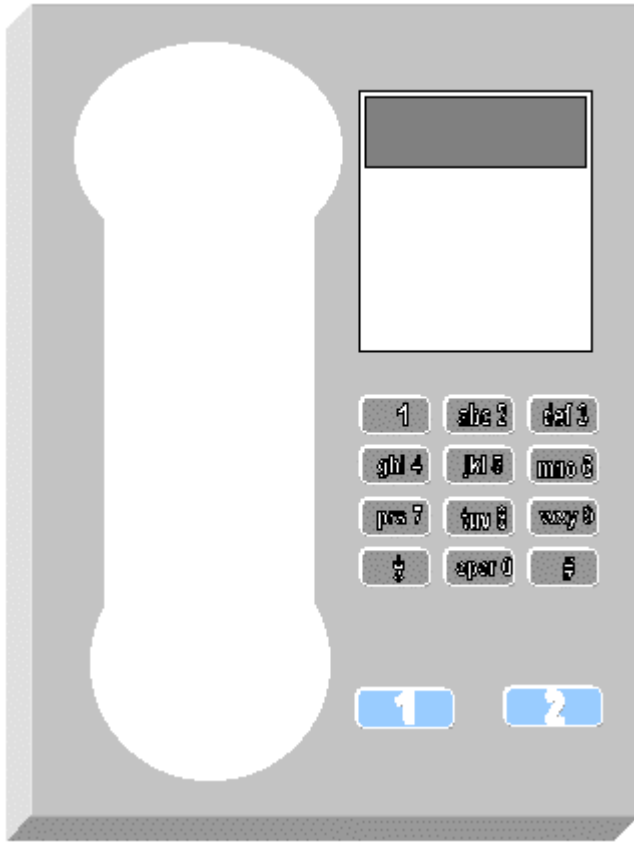
USER GUIDE

INDICATING MASTER STATION



incoming call ID

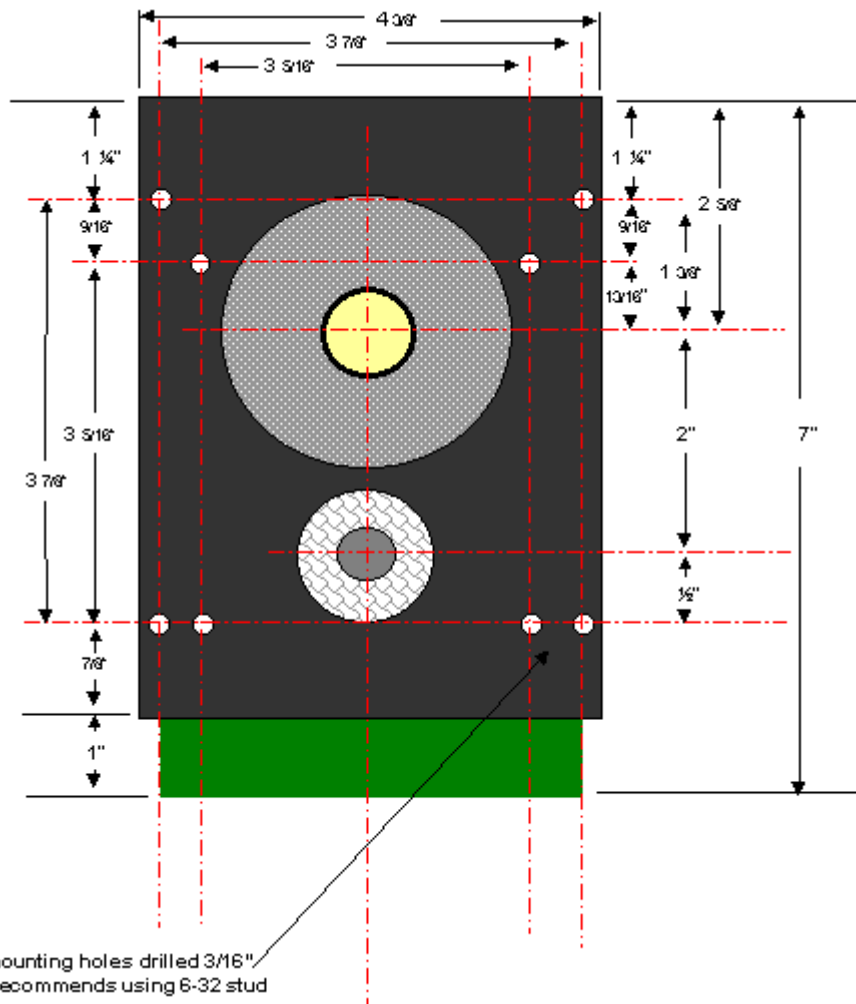
NON - INDICATING MASTER STATION



All Lift-Net Voice Master Stations use a standard telephone keypad



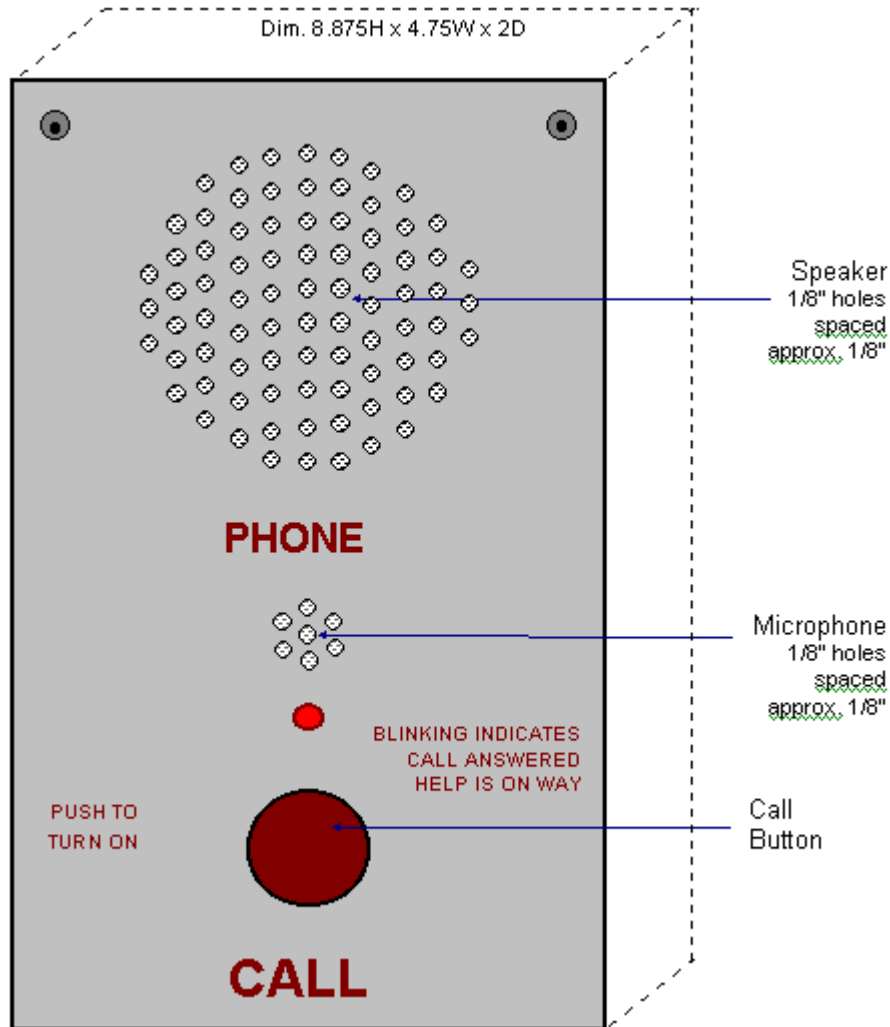
CAR SPEAKERPHONE



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SURFACE MOUNT

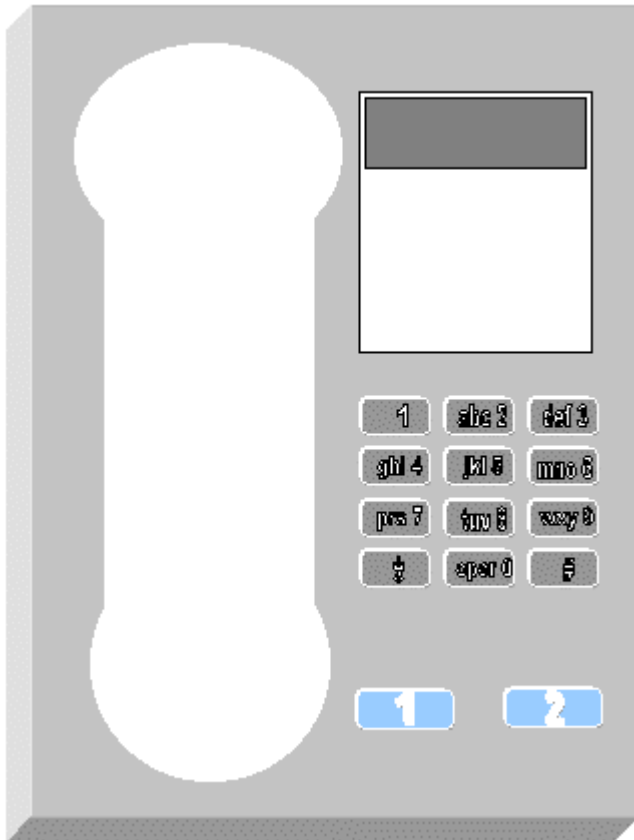
ADA COMPLIANT



USING LIFT-NET VOICE

Receiving Calls at a Master Station

Non-Indicating Master Station



A Non-Indicating Master Station commonly used in machine rooms will alarm with double rings when a call comes in (any station goes offhook).

All incoming calls can be answered on Line 2.

1. Pick up the handset to connect with the calling station.
2. Press "0" to alert the caller with a blinking light.
3. Press *0 or hang up the handset to end the call.

Placing Calls from a Non-Indicating Master Station

1. Press Line 2
2. Pick up the Master Station handset.
3. Press " * " and the two digit number of the station you wish to call.

4. You will hear double rings you can talk when the speakerphone answers (goes off hook).
5. Press "0" to alert the station with a blinking light.
6. Press *0 or hang up the handset to end the call.

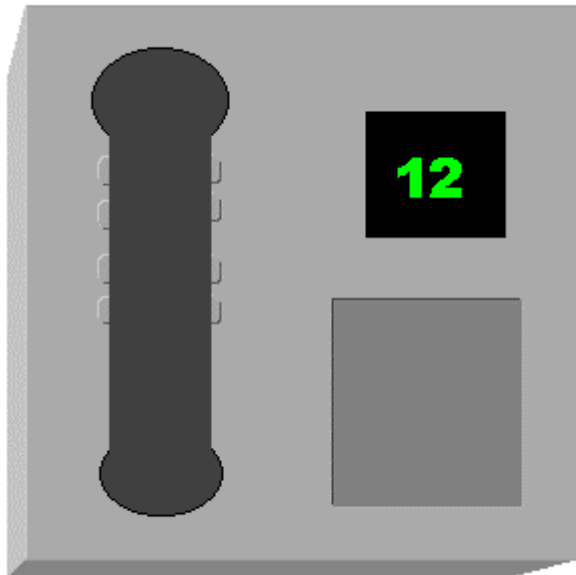
To connect with all Master Stations on the Lift-Net Voice network

1. Press Line 1 and pick up the handset no key press is needed.

Press "#" to mute the speakerphone mike. Pressing any other key will turn the microphone back on

Receiving Calls at a Master Station

Indicating Master Station



An Indicating Master Station used in lobbies and machine rooms will alarm with double rings when a call comes in (any station goes off hook).

1. Check the LED indicator to identify the calling station.
2. Pick up the handset to connect with the calling station.
3. Press "0" to alert the caller with a blinking light.
4. Press *0 or hang up the handset to end the call.

Press "#" to mute the speakerphone mike. Pressing any other key will turn the microphone back on

When more than one station is attempting to connect the station numbers will alternate on the LED display. Calls will be answered in the order they are received.

Placing Calls from an Indicating Master Station

1. Pick up the Master Station handset.
2. Press "*" and the two digit number of the station you wish to call.
3. You will hear double rings you can talk when the speakerphone answers (goes off hook).
4. Press "0" to alert the station with a blinking light.
5. Press *0 or hang up the handset to end the call.

All Master Stations (indicating and non-indicating)

To connect with "All Stations" on the Lift-Net Voice network.

1. Pick up the handset
2. Press "*91" to connect with stations connected to the first voice controller.
3. Press "*92" to connect with stations connected to the second voice controller.
4. Press "*93" to connect with stations connected to the third voice controller.
5. Press "*94" for the fourth... etc.
6. There can be a maximum of eight voice controllers on the network.

TROUBLESHOOTING GUIDE

Most complaints of poor audio quality are attributed to inadequate grounding. We require that high quality shielded twisted pair cables be used and grounded at the voice **controller** only.

Problem	Corrective Action	Ref.
No audio (voice)	<p>Check the connection of pair "C" at the voice controller and at the phone itself.</p> <p>Plug any station phone into a standard telephone jack. (RJ11). It should operate as a conventional phone.</p>	A, E
Poor audio quality	<p>Be certain the shield of pair "C" is continuous and grounded at the voice controller only.</p> <p>Check the proximity of pair "C" to other high voltage devices or wiring. It may be necessary to run pair "C" in a different raceway.</p> <p>Connect a wire from the negative side of the Voice Controller battery to Chassis Ground.</p>	
No power at indicating master (green LED)	Check the 120 VAC power source.	E
Garbled LED indication at indicating master	<p>Check the connection of pair "A" at the voice controller and at the master station.</p> <p>Make certain the polarity of pair "A" the data cables is correct.</p> <p>For long runs of 500 hundred feet or more to the indicating master, multiple twisted pairs in the same cable re not recommended. It may be necessary to run pair "B" (voice) and pair "A" (data) in separate cables.</p> <p>Remove the cover from the indicating master. At the top of the LED printed circuit board are two RJ-11 sockets remove the plug and insert it into the other socket.</p>	E
LED indicator will not turn off	Make sure all master and remote units have been hung-up Press * 0 (<i>star-zero</i>) to hang up	

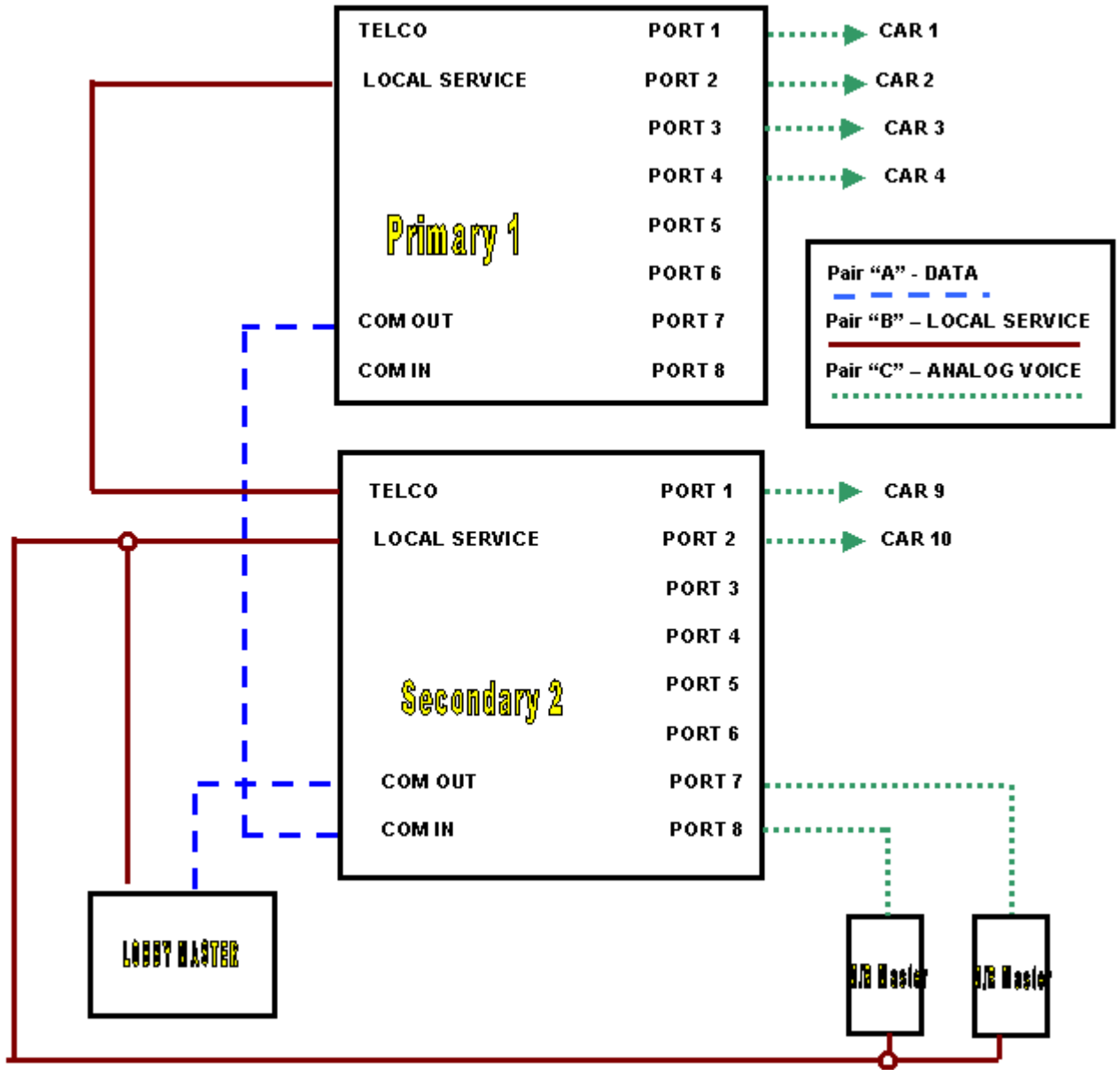
	speakerphones.	
Speakerphone will not connect	<p>Check the phone and pushbutton connections.</p> <p>Plug a touch-tone phone into the modular jack on the back of the speakerphone. (fig. A) If the call goes through replace the speakerphone.</p> <p>Plug a touch-tone phone into the corresponding port on the Lift-Net Voice controller. If the call goes through check the wiring between the speakerphone and the Voice controller.</p> <p>Replace Voice controller</p>	
Speakerphone connects then immediately goes offline	9 volt speakerphone battery dead or not installed. (see battery back-up)	

Lift-Net Technical Support: 847 475-2476

takecontrol@lift-net.com

HOOK-UP SHEETS

LIFT-NET VOICE WIRING



Lift-Net VOICE ON-SCREEN INTERCOM DISPLAY


The screenshot shows the 'Intercomm' software window with a 'Simulate Call' button. The interface is organized into several sections, each with a set of buttons representing different stations:

- Management:** LOBBY (21), SECURITY (22), ENGINEER (23), OFFICE (24)
- High Rise:** Car 1 (01), Car 2 (02), Car 3 (03), Car 4 (04), Car 5 (05), Car 6 (06)
- Low Rise:** Car 7 (07), Car 8 (08), Car 9 (09), Car 10 (10), Car 11 (11), Car 12 (12)
- Shuttle:** Car 13 (13), Car 14 (14), Car 15 (15)
- Garage Cars:** Car 16 (16), Car 17 (17)
- Elev M/R:** High Rise (18), Low Rise (19), Shuttle (20), Garage (21)

Below the buttons is a table with the following columns: Location, Phone, Day, On-Line, Off-Line, and Operator.

Location	Phone	Day	On-Line	Off-Line	Operator
High Rise	Car 1	12/13	9:23:35 pm		Integrated Display
High Rise	Car 1	12/13	9:23:18 pm	9:23:22 pm	Integrated Display
High Rise	Car 1	12/13	9:22:52 pm	9:22:58 pm	Integrated Display
High Rise	Car 1	12/13	9:22:21 pm	9:23:01 pm	Integrated Display

Double click on a station to connect or disconnect.

The  in the upper right of the screen will close the active window and return to the previous screen.

Glossary

Bank

Two or more elevators operating from a common set of hall buttons. The term group (or bank) refers to an elevator system with two or more cars operating in concert to service a building, or a specific portion of a building.

Controller

The controller manages the elevator functions i.e. direction, motor control, safety circuit, etc. It can be relay logic, solid state, or a combination of the two.

Group

Two or more elevators operating from a common set of hall buttons. The term group (or bank) refers to an elevator system with two or more cars operating in concert to service a building, or a specific portion of a building.

Lift-Net

An RS-485 network used to carry Lift-Net data between remote sites. Using high quality shielded twisted pair cables transmission distance can exceed 18 miles.

RS-485 adapter

A black box interface connecting the RS-485 (Lift-Net) to the RS-232 (Monitoring Computer).

Selective-collective

The term selective-collective refers to a type of elevator control system. It determines which direction to run and stores car and hall calls until answered. Virtually all modern elevators are selective-collective. See Group

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