



## **LTC-SM/FL Lobby Intercom User's Manual**



**LTC-1SM**



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## **Pre-Testing**

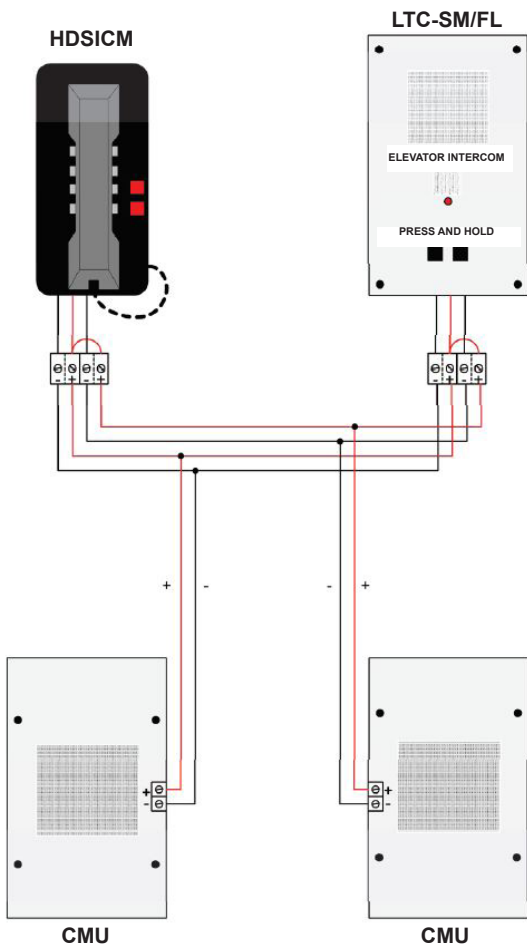
1. Remove intercom system from shipping box. The intercom will have wiring between the elevator unit and the lobby unit.
2. Plug the AC power supply into an AC outlet and connect the 9-volt battery to its battery snap.
3. Take the elevator unit into an adjoining room and close the door.
4. The person at the lobby panel should press and hold the push-button.
5. There should be two way conversation between the two units and the LED on the front of the lobby panel should turn on.
6. Check each elevator unit in the same manner.

## **Installation**

1. The intercom requires one pair of wires for each elevator from the lobby panel to the elevator unit. The intercom system requires 110 volts to trickle charge the battery. The wiring from the AC wall plug can be extended as needed to get to the nearest outlet or to go to the Machine Room. Connectors are provided.
2. Install the elevator unit on the ceiling using the mounting holes provided in the galvanized box. The elevator unit can be mounted behind a speaker grill in the car return (3.5 inch minimum speaker pattern required). The galvanized box will need to be removed from the elevator intercom.
3. Install the lobby unit using the bracket if needed.
4. Connect the AC power to the lobby unit.
5. On Simplex installations, connect one pair of wires between the TELCO connector of the lobby unit and the TELCO connector of the elevator unit. This connection is polarity sensitive so be sure to connect No. 1 connections together and No. 2 connections together.

**NOTE:** On Duplex, Triplex, Quadruplex, there will be a European connector at the lobby panel with a pair of connections for each elevator. When you connect the wiring at the TELCO connector on the elevator unit, be sure that the positive voltage is connected to the No. 2 side of the connector. Positive and negative are marked on the board.

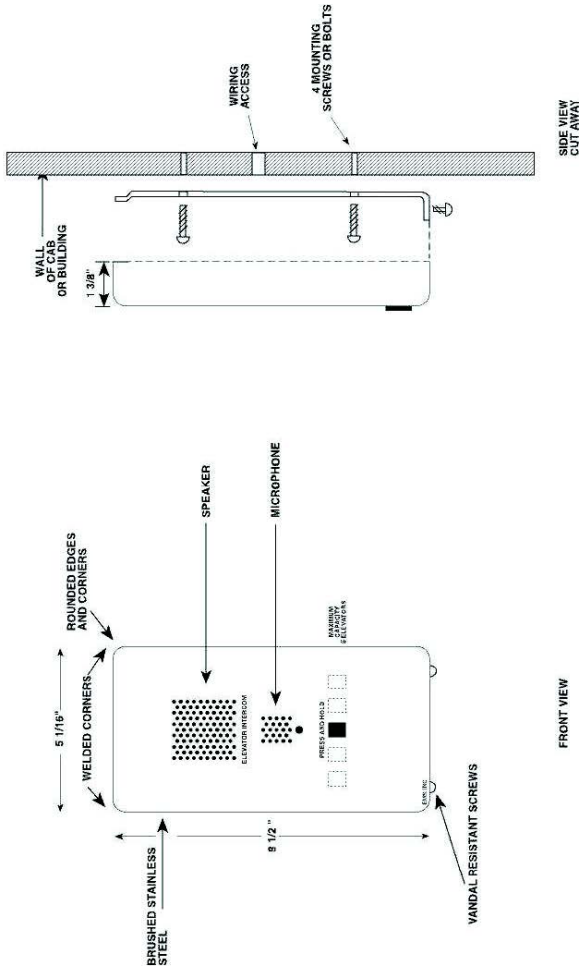
## Duplex System Sample Diagram



## **Troubleshooting**

1. Ensure that lobby unit is getting power from the wall transformer by checking the voltage on the battery snap that is plugged into the battery snap that is soldered on to the board. This snap is labelled "Connect to battery snap on HF phone". WITH THE PUSH BUTTON PRESSED there should be positive voltage on the male side of the connector and negative voltage on the female side. If the polarity is not correct, reverse the wires coming from the wall transformer.
2. Check to see if power is getting to the 9-volt battery by unplugging the battery and measure voltage on the battery snap labelled "Connect to battery". WITH THE PUSH BUTTON PRESSED there should be approximately 9-13 volts DC with positive voltage on the female connector and negative voltage on the male connector. If the polarity is not correct, reverse the wires coming from the wall transformer.
3. If the red LED is not turning on check to ensure that when the button is pressed you get approximately 9-13 volts DC voltage at the battery snap that is soldered to the PC board.
4. WITH THE PUSH BUTTON PRESSED there should be approximately 9-13 volts DC on the TELCO connector on both the lobby and the elevator units. Ensure the polarity is correct-positive voltage on the no. 2 and negative on no. 1 connector. The CMU intercom in the elevator cab does not require a 9-volt battery.
5. You can test each PC board individually and without any field wiring connected by attaching a 9-volt battery to the battery connector that is soldered directly onto the PC board and plugging a modular tone phone into the black jack on the back of the board. You should be able to communicate through the handset to the PC board.
6. On all multi-elevator installations, check the voltage at the European connector for each elevator. When the push button is pressed for that particular elevator there should be approximately 9-13 volts going from the battery to the lobby PC board and then fed out through the TELCO connector through the switch being pressed and then out through the European connector pair going to that particular elevator unit.
7. If you are experiencing broken communication, try adjusting the R14A potentiometer (microphone sensitivity potentiometer) between 1 to 3 o'clock positions while speaking to the other unit. Do not adjust this pot all the way in either direction.
8. If the sound output of the speaker is low on the unit, try adjusting the R13 (VOL.) potentiometer counter-clockwise to the max.

# Surface Mount Lobby Intercom



## Flush Mount Lobby Intercom

