



TOOLS NEEDED FOR MAINTENANCE/INSTALLATION FOR LED/LCD ORDER CONFIRMATION SYSTEMS

(note: tools on this list are **not** provided by Everbrite)

<u>PRE-INSTALL SITE SURVEYS</u>	
Fish Tape (100ft min)	Torx T15 (for freestanding units as of 3/23, 2012) and T20 drivers
WD-40 or similar penetrating oil to remove old nuts from speaker posts etc	1/2" & 3/8" electric drill
Basic Hand Tools *	10' DB9 Serial Cable (can be purchased from Everbrite. Reference Part #WI0334ORS)
<u>SERVICE CALLS:</u>	
Fish Tape (100ft min)	Small jewelers screwdriver
Digital Volt-Ohm Meter	Vacuum Cleaner (optional)
Basic Hand Tools *	1/2" & 3/8" electric drill
Soldering Pencil(s) with a spool of solder	3/8" screw gun
Torx T15 (for freestanding units as of March 23, 2012)& T20 drivers	Blu-mol Drill bits (Home Depot)
Tie-raps wire ties	RS232 Data Breakout Box
Mild All-purpose cleaner i.e. 409 or Fantastic for cleaning the sign faces	10' DB9 Serial Cable (can be purchased from Everbrite. Reference Part #WI0334ORS)
Caulk Gun (use for Silicone Sealant)	Lubricant (ie:"snot") must be used when pulling Everbrite data/Ethernet CAT5 cables. (note: dish soap should NOT be used-could remove the printing.)
<u>INSTALLATIONS or Repairs to Damaged Units:</u>	
Hammer Drill	Torx T15 (for freestanding units as of 3/23, 2012) and T20 drivers
1/2" & 3/8" electric drill	Tie-raps wire ties
Blu-mol Drill bits (Home Depot)	Mild All purpose cleaner i.e. 409 or Fantastic for cleaning the sign faces
3/8" screw gun	Small jewelers screwdriver
Side Grinder or Sawzall	Vacuum Cleaner
Fish Tape (100ft min)	1/2" Red Head anchor bolts
Digital Volt-Ohm meter	WD-40 or similar penetrating oil to remove old nuts from speaker posts etc
Basic Hand Tools *	RS232 Data Breakout Box
Soldering Pencil(s) with a spool of solder	Lubricant (ie:"snot") must be used when pulling Everbrite data/Ethernet CAT5 cables. (note: dish soap should NOT be used-could remove the printing.)
<u>LED Retrofit Installs or LCD Retrofit into FP43 not COD ready In addition to normal INSTALLATION tools:</u>	
100' extension cord	Side Grinder or Sawzall
1/8" to 1/2" Metal tapping bits	Basic Hand Tools *
Jig Saw w/metal cutting blades	
1/2" & 3/8" electric drill	
Metal File	

*I. E. Various screwdrivers, 1/4 & 3/8" drive socket wrench set, Pliers, Diagonal wire cutters, Lineman' s pliers, Black Tape, Flashlight, Adjustable wrench, Utility knife, Wire stripper/crimper, Assortment of wire nuts & miscellaneous crimp terminals, Panduit adhesive cable track (optional to contain data cables etc)