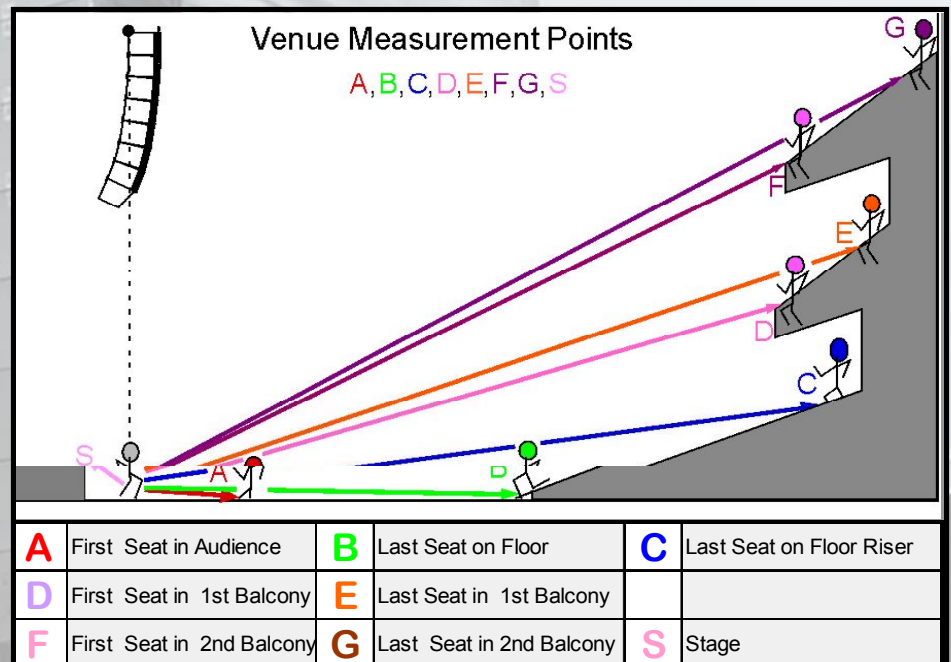# X-Line Compact

Easy Step-by-Step Set-Up

Preliminary

Model the seating plane in the program to determine the proper X^{LC} configuration, aiming angles, and mechanical information.

No Balcony		Imperial (Yards)
1 Balcony	Indoors	Imperial (Feet)
2 Balcony	Outdoors	Metric (Meters)

Distance/Angle		Room Data Entry		Site Plan

Distance	Incline Angle	Seating Location	Depth (X)	Height (Z)
0.0 Feet	--	A		
100.0 Feet	0.0 °	B		
175.0 Feet	0.0 °	C		
		D		
		E		
		F		
		G		

Venue Measurement Points
A, B, C, D, E, F, G, S

A	First Seat in Audience	B	Last Seat on Floor	C	Last Seat on Floor Riser
D	First Seat in 1st Balcony	E	Last Seat in 1st Balcony		
F	First Seat in 2nd Balcony	G	Last Seat in 2nd Balcony	S	Stage

Pay particular attention to rigging and motor loads, COG, and other mechanical information.

	8	NUMBER OF CABINETS	
▲ ▼	24.5 ft	TOP CABINET TRIM	RESET
	14.4 ft	BOTTOM CABINET TRIM	

Array Weight	Array Height	Array Depth
1040.0 Lbs.	10.1 ft	4.3 ft

Array CG

Warning Flags	Pull Up:	**NEEDED**

Array Construction:

Motor Loads	Rear Point	Front Point
Dist. To Rear Hinge	5.0 In.	25.0 In.
Motor Load		

Rigging Loads	Rear Point	Front Point
Top Rigging Load		
Safety Factor		

▲   ○   ▲

Now that we have modeled the array and the space, let's look at an easy step-by-step process of building our array.

Line up cabinets in preparation of attaching the flybar, setting pins, and splay angles.

Align X^{LC} cabinets in order to lock front connector bars.

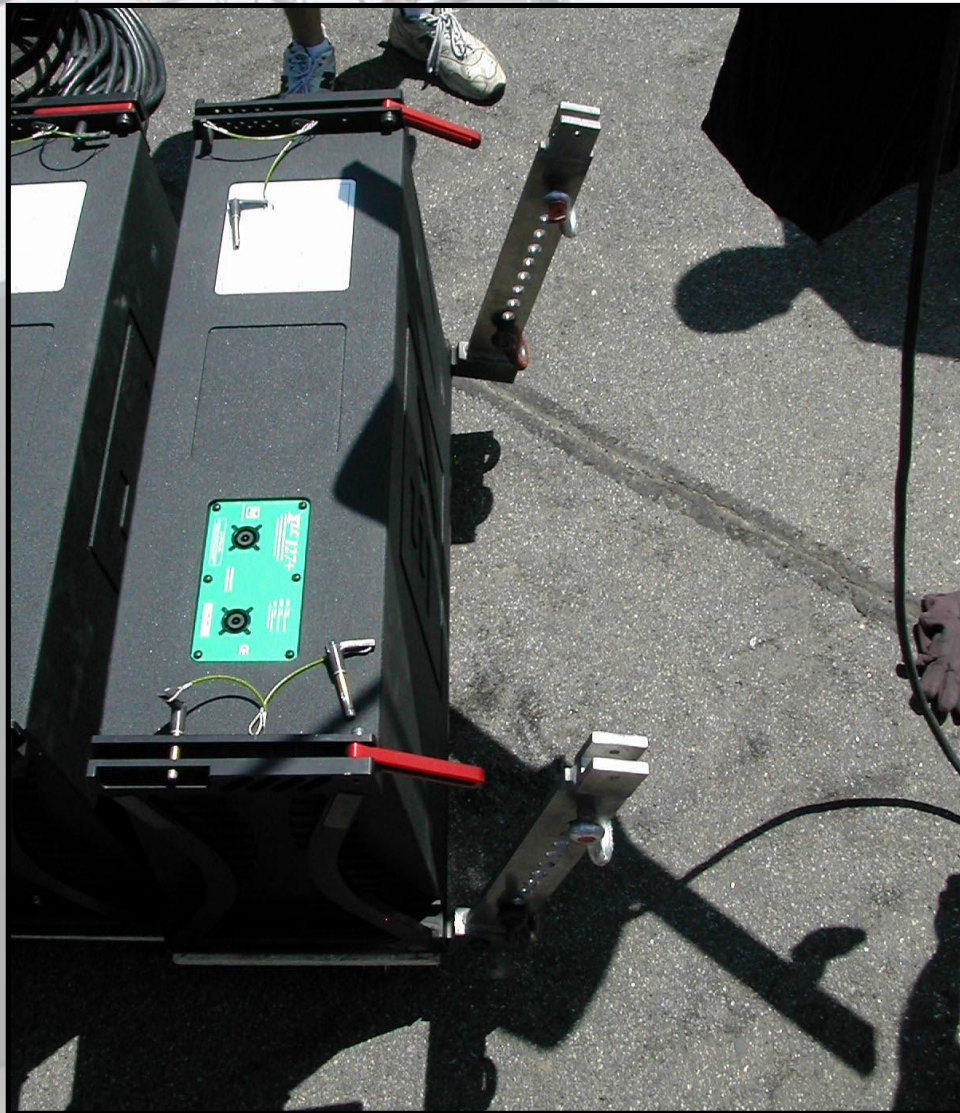Push in on the blue, spring-loaded button and extend into the adjacent cabinet.
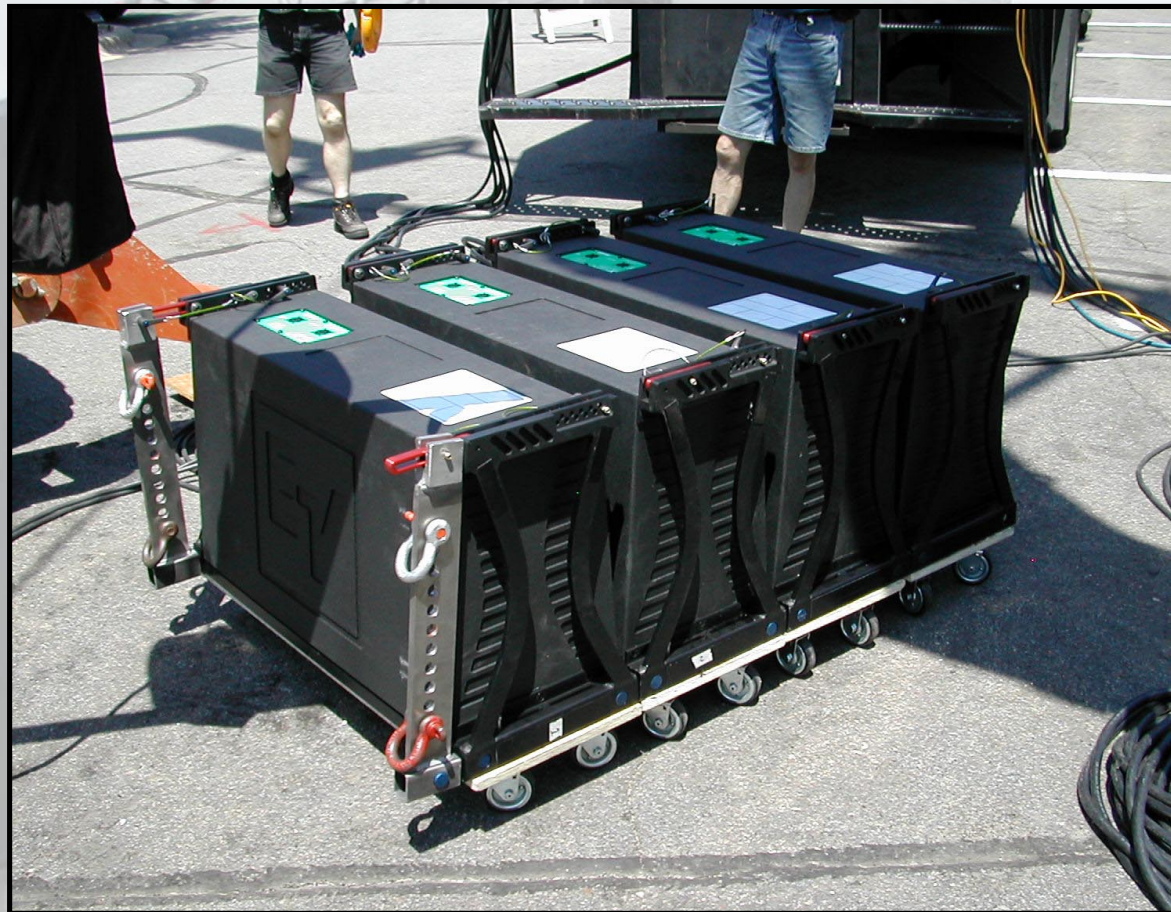
Buttons properly set and locked into position.

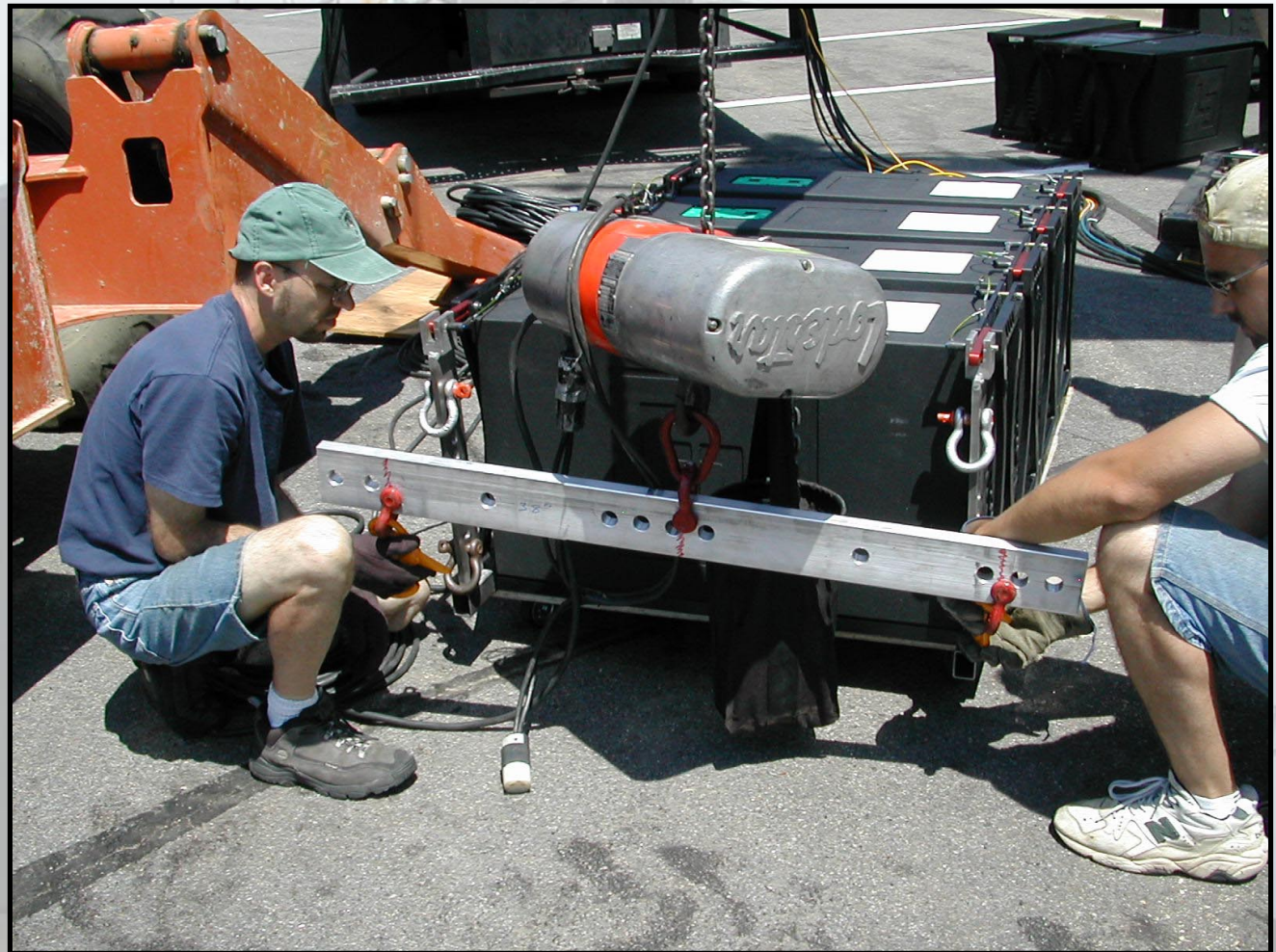Attach flybar to top X^{LC} cabinet by inserting blue pins and rear locking pins.

X^{LC} cabinets with front pins locked and grid installed, ready for motor attachment.

Attach motors to X^{LC} grid/flybar per the software's mechanical information.

Prepare to set splay angles by slowly raising motor and compressing the rigging hardware at the back of the cabinets.

Remove quick-release pins on lanyards.

Quick-release pins and swing bars properly released in preparation to be assigned.

Set splay angles as modeled in the aiming program by placing quick-release pins through swing arms in appropriate holes in rigging track. Remove dollies.
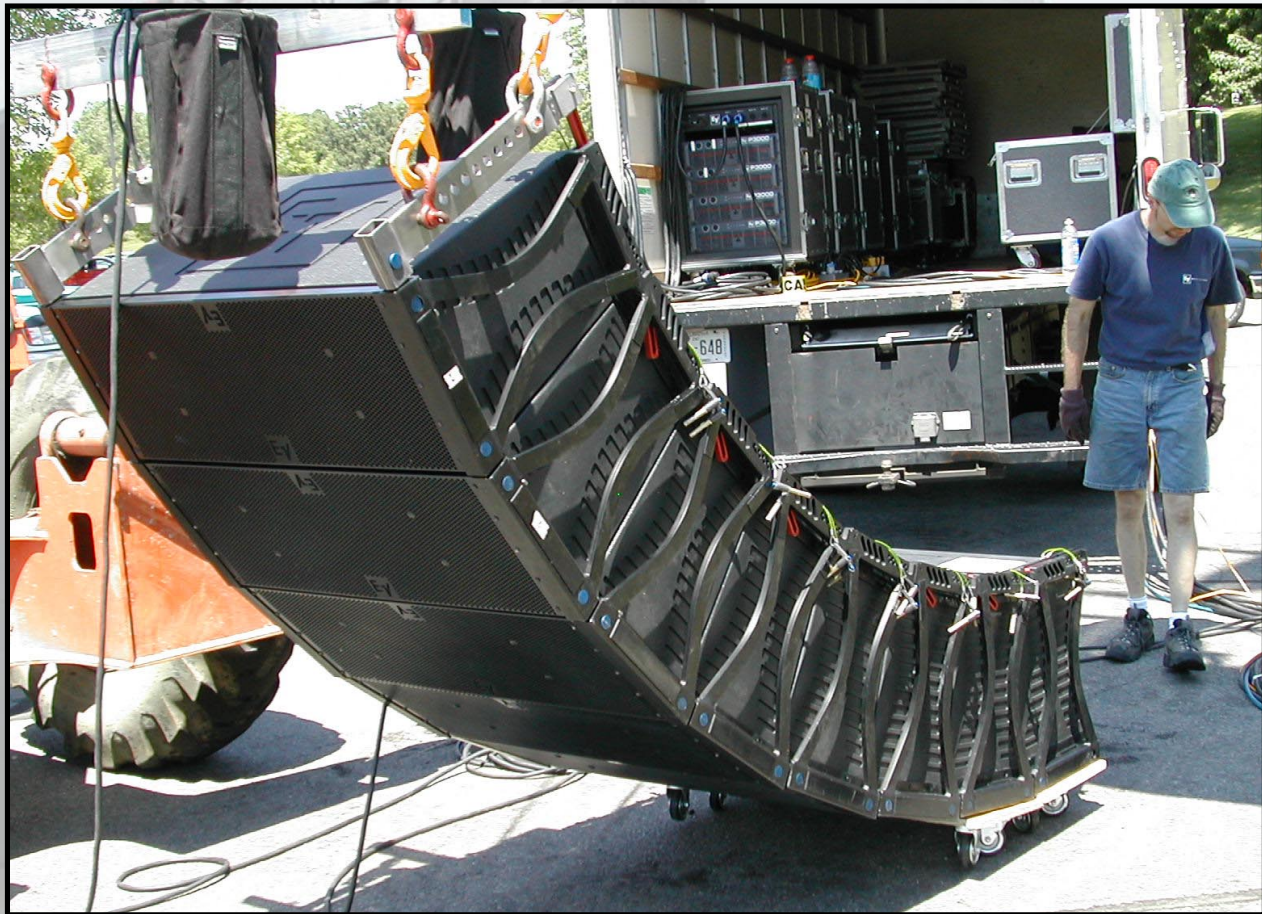
Closeup of locking pins set in place through the red swing bar. Note, each hole in the rear rigging track corresponds to splay angles in one-degree increments.

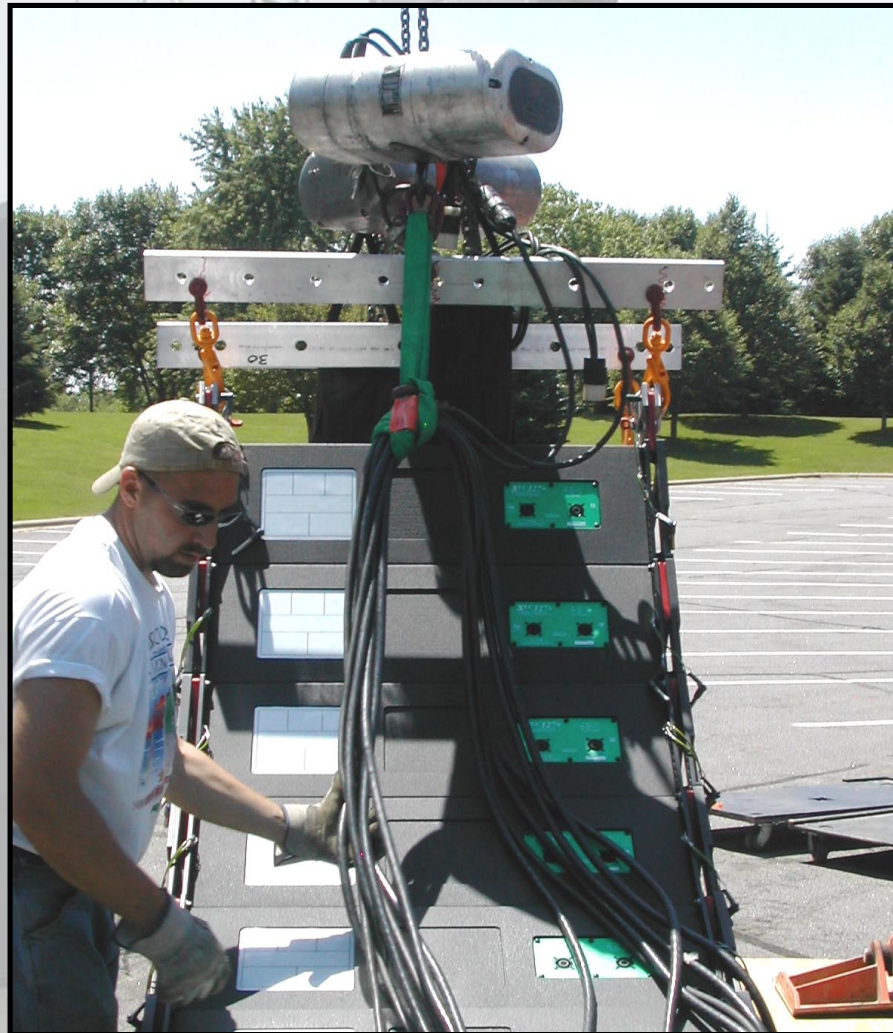# Raise the array to compress lower cabinets and set splay angles.

Next, prepare cable loom and place a cable pick on the NL8 bundle to reduce weight and stress on connectors.
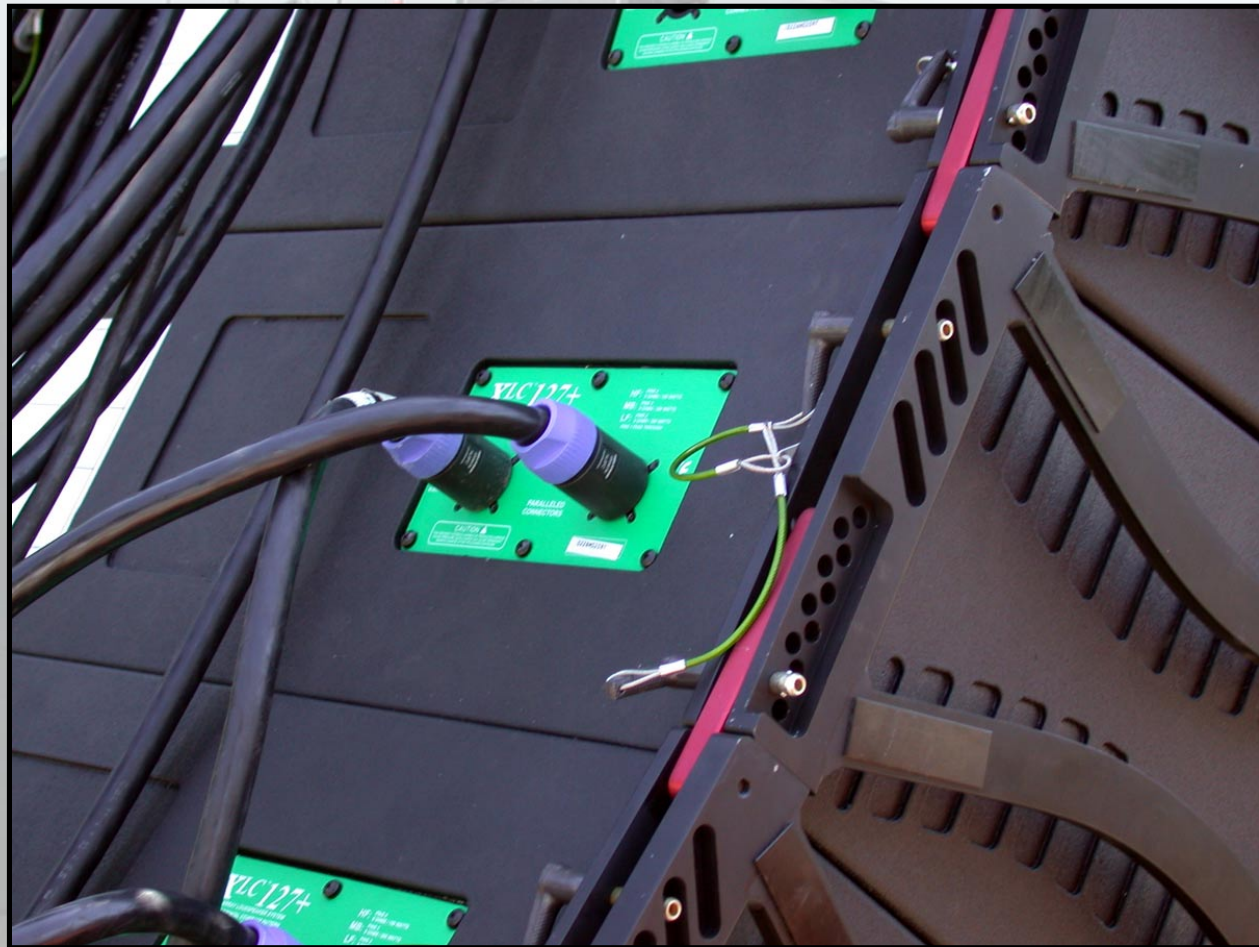
Dress cable loom and prepare to insert NL8 home runs and jumpers into individual cabinets.
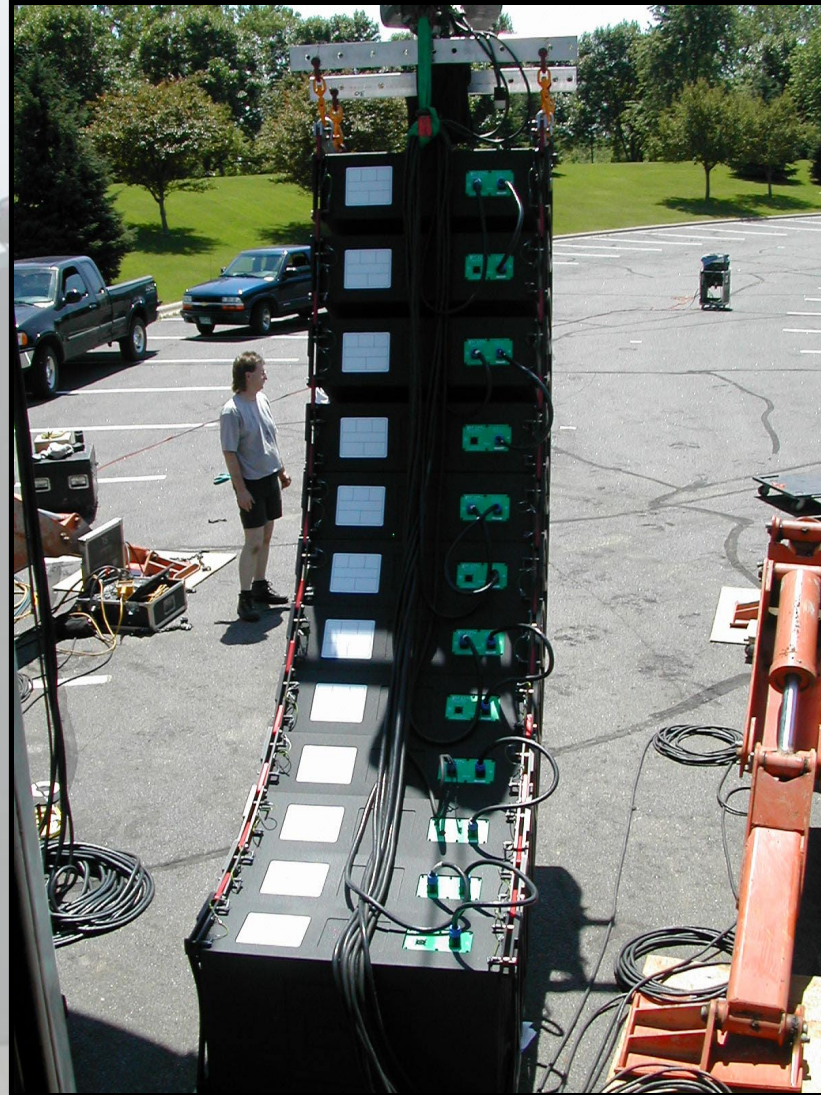
NL8 cable feeds are typically configured in blocks of 3 X^{LC} systems, one home run and two jumpers to successive cabinets.

In our example, here is a 12-box array ready to be raised and flown.

This initial set-up and test shows an X^{LC} array and an X-Line array for comparison.

Quick and easy set-up in less than an hour.

X-Line Compact

Thank you for your interest in Electro-Voice products!