



www.dekra-lite.com • 1.800.436.3627

3102 West Alton Avenue Santa Ana, Ca 92704

SEQUOIA TREES

INSTALLATION INSTRUCTIONS



SEQUOIA TREES: INSTALLATION PREPARATION

SITE PREPARATION

Install the tree on a dry, flat level surface. Conduct ground markings as necessary to make sure the location for the tree installation is correct. The diameter of the tree is equal to roughly half the height, please see the chart below.

PROPERLY SECURING THE TREE

It is up to the installers to determine how to properly secure the tree to withstand local weather conditions and/or environmental elements. Separate instructions are available for using guy wires, and water barrels to secure a tree.

CHECKING THE POWER SOURCE

Check with an electrician before connecting the tree to a power source. It is important to ensure there is ample power. Check the chart below to calculate power usage.

UNPACKING AND IDENTIFYING ALL PARTS

Unpack all tree frames with care. If pressure is applied, bending or warping may occur. If you are unwrapping the frames with a cutter or sharp object, be careful not to cut the electrical wires of the runline and the lead cable pre-attached on some frames. Refer to the PARTS LIST for parts identification.

TOOLS REQUIRED

- Cutter
- Pliers
- Ratchet Wrench (with 5/8" size sockets)

SEQUOIA TREES: ASSEMBLY CHART FOR SIZE & PARTS

Height (ft)	Row No	Section per row	Metal Top Ring OD inch	Metal Bottom Ring OD inch	OD of Tree (Incl.Branch) inch	# of Branch (per row)	# of Branch (accum)	M10 (50 x 110mm) TTL U-Clamp (per row)	M10 (50 x 110mm) TTL U-Clamp (accum)	M10 (80 x 140mm) TTL U-Clamp (per row)	M10 (80 x 140mm) TTL U-Clamp (accum)	M10 (80 x 170mm) TTL U-Clamp (per row)	M10 (80 x 170mm) TTL U-Clamp (accum)	Watt (accum)	Amp (accum)	# of 1 outlet runline (per row)	# of 1 outlet runline (accum)	# of 10ft lead cable (accum)	# of 15ft lead cable (accum)	# of 30ft lead cable (accum)	TTL G.W. Kg	TTL G.W. LBS	
5	Tree Top	0	0	0	52	0								52.8	0.5								
8	Special Pole	0	0	0	56	6								105.6	1	1	1						
10		0	0	0	60	6	6							158.4	1.4	1	2						
12	A	1	12	20	72	6	12							211.2	1.9	1	3					131.95	290.8996
14	B	1	20	30	80	8	20							281.6	2.6	1	4	1	0	0		193.98	427.6522
16	C	1	30	40	90	8	28							352	3.2	1	5	1	0	0		230.95	509.157
18	D	2	40	50	100	12	40							457.6	4.2	1	6	1	0	0		303.5	669.1022
20	E	2	50	60	110	14	54							580.8	5.3	1	7	1	0	0		407.7	898.8236
22	F	2	60	70	120	18	72							739.2	6.7	1	8	1	0	0		514.4	1134.057
24	G	2	70	80	130	20	92							915.2	8.3	1	9	1	0	0		623.6	1374.801
26	H	4	80	90	140	24	116							1,126.40	10.2	2	11	2	1	0		775.2	1709.021
28	I	4	90	100	150	28	144							1,372.80	12.5	2	13	2	1	0		956.95	2109.711
30	J	4	100	110	160	28	172							1,619.20	14.7	2	15	2	1	0		1,114.85	2457.821
32	K	4	110	120	170	32	204							1,900.80	17.3	2	17	4	0	0		1,327.95	2927.625
34	L	4	120	130	180	36	240							2,217.60	20.2	2	19	4	0	0		1,544.15	3404.264
36	M	4	130	140	190	40	280							2,569.60	23.4	2	21	4	0	0		1,770.95	3904.272
38	N	6	140	150	200	42	322							2,939.20	26.7	3	24	6	1	0		2,079.74	4585.036
40	O	6	150	160	210	42	364							3,308.80	30.1	3	27	4	3	0		2,429.93	5357.072
42	P	6	160	170	220	48	412							3,731.20	33.9	3	30	3	2	1		2,765.47	6092.401
44	Q	6	170	180	230	48	460							4,153.60	37.8	3	33	7	0	1		3,102.21	6839.194
46	R	6	180	190	240	54	514							4,628.80	42.1	3	36	7	0	1		3,471.10	7652.456
48	S	8	190	200	250	56	570							5,121.60	46.6	4	40	13	1	0		3,563.82	8738.717
50	T	8	200	210	260	64	634							5,684.80	51.7	4	44	8	6	0		4,519.84	9964.53
52	U	8	210	220	270	64	698							6,248.00	56.8	4	48	7	5	1		5,044.21	11120.57
54	V	8	220	230	280	64	762							6,811.20	61.9	4	52	11	0	3		5,573.88	12288.29
56	W	8	230	240	290	72	834							7,444.80	67.7	4	56	11	0	3		6,194.56	13656.65
58	X	8	240	250	300	72	906							8,078.40	73.4	4	60	10	1	3		6,820.63	15036.9
60	Y	8	250	260	310	72	978							8,712.00	79.2	4	64	11	6	1		7,456.61	16438.99
62	Z	12	260	270	320	84	1,062							9,451.20	85.9	6	70	19	5	1		8,255.87	18201.06
64	AA	12	270	280	330	84	1,146							10,190.40	92.6	6	76	10	4	6		8,919.80	19664.77
66	BB	12	280	290	340	84	1,230							10,929.60	99.4	6	82	10	4	6		9,698.86	21382.3
68	CC	12	290	300	350	96	1,326							11,774.40	107	6	88	17	1	6		10,649.71	23478.56
70	DD	m	300	310	360	96	1,422							12,619.20	114.7	6	94	21	6	3		11,502.52	25358.69
72	EE	12	310	320	370	96	1,518							13,464.00	122.4	6	100	16	7	4		12,359.80	27248.66
74	FF	12	320	330	380	96	1,614							14,308.80	130.1	6	106	17	4	7		13,224.85	29155.77
76	GG	12	330	340	390	108	1,722							15,259.20	138.7	6	112	17	4	7		14,154.73	31205.8
78	HH	12	340	350	400	108	1,830							16,209.60	147.4	6	118	15	1	10		15,127.58	33350.57
80	II	12	350	360	410	108	1,938							17,160.00	156	6	124	9	11	11		16,150.48	35605.67

SEQUOIA TREES: PARTS LIST



FRAME(S)

A letter is marked on the frame for identification of different rows. Refer to the "Sequoia Tree: Assembly Chart for Size and Parts" for the exact frame and pole counts for your tree size.

HARNESS ATTACHED ON FRAMES

For power connection of light strings.



U-CLAMPS & BOLTS

For assembling the frame together. Refer to the "Sequoia Tree: Assembly Chart for Size and Parts" for the exact sizes and quantities of u-clamps needed for your size tree.



1 TREE TOP

5 feet in height for installing on top of the Topper Pole.

6 RED TIP BRANCHES

Red color marked for inserting into the sleeves of the Topper Pole.

1 POLE
CONSISTING
OF AN UPPER
AND LOWER
SECTION



TOPPER POLE UPPER SECTION

3 feet in height with red-color marking the branch sleeves for installation of the Red Tip Branches.

TOPPER POLE LOWER SECTION

2 feet in height for installation of Standard Branches.

**THESE
ITEMS
SHIP
ALL IN
1 BOX**



STANDARD BRANCH

For inserting into the sleeves of the Topper Pole Lower Section and different rows. Refer to the "Sequoia Tree: Assembly Chart for Size and Parts" for the exact number of branches for your size tree.

ELECTRICAL HARNESS

For connecting the runline to the ground.



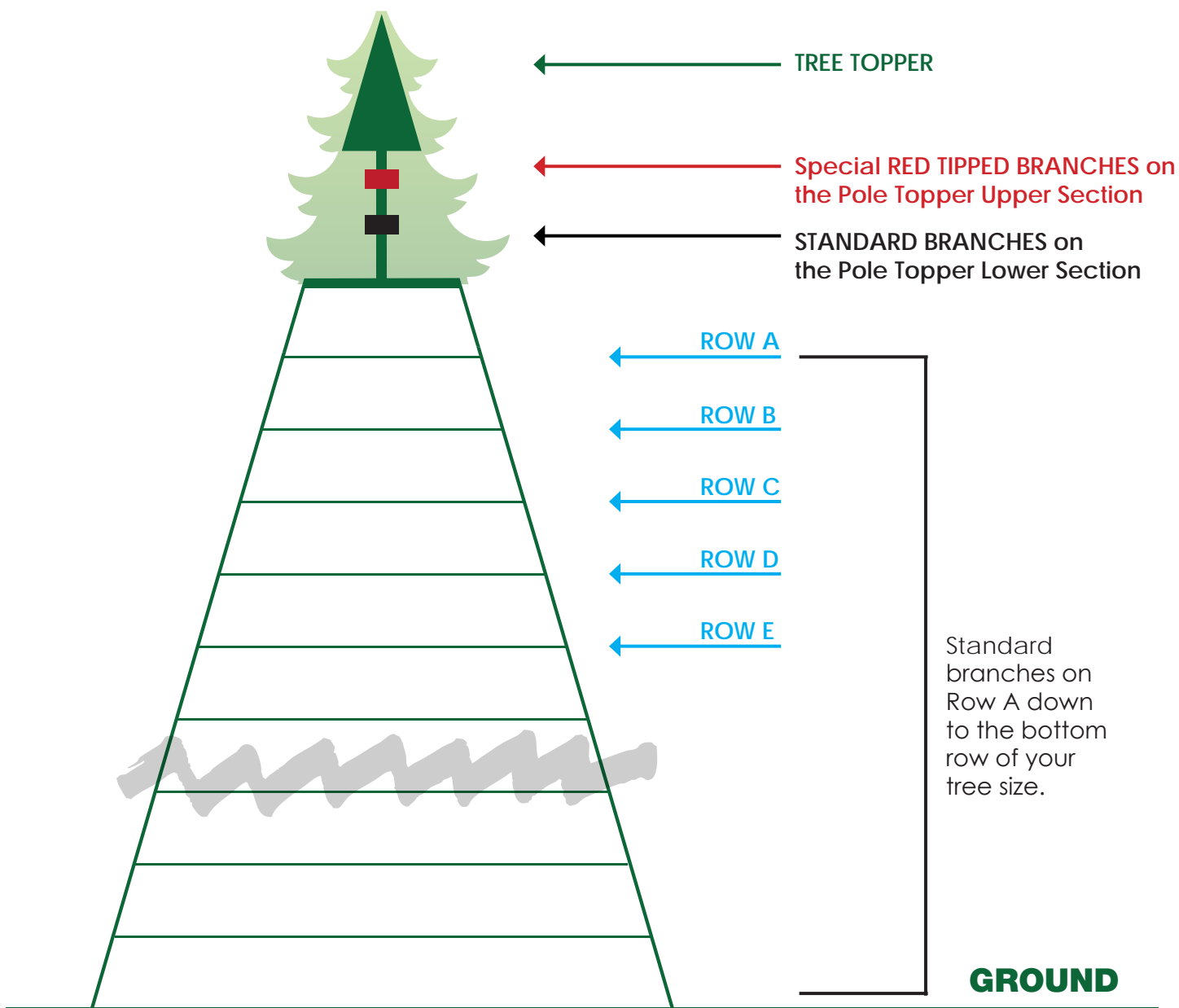
SEQUOIA TREES: ASSEMBLY DIAGRAM

BEFORE YOU BEGIN, SORT THE TREE FRAME SECTIONS BY LETTER AND MAKE SURE ALL TOOLS AND PARTS ARE ACCOUNTED FOR AND ACCESSIBLE.



FRAME(S)

A letter is marked on the frame for identification of different rows. Refer to the "Sequoia Tree: Assembly Chart for Size and Parts" on page 2 for the exact frame and pole counts for your tree size.



SEQUOIA TREES: FRAME INSTALLATION

STEP 1 FRAME INSTALLATION

Starting with the bottom row (highest letter) match the letter marked pieces (e.g. "F" to "F", "E" to "E", "D" to "D") and connect the frame pieces together using the U-Clamps provided. **Do not tighten the U-Clamps until you have placed all the U-Clamps for that row.**



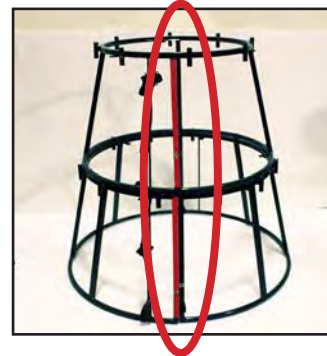
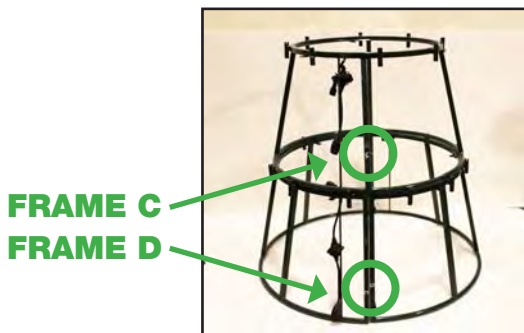
STEP 2 ELECTRICAL ASSEMBLY

Stack the frames up row by row up to Row A. Stack the rows vertically level by level. For each stacked row, verify that the main column is aligned vertically, so that the power runlines between the rows can be connected.

stacked frames

electrical runline

actual runline



**** SPECIAL INSTRUCTIONS ****

FOR TREES TALLER THAN 26 FEET (ROW H AND ABOVE)

In addition to the letter coding system, trees with a height of 26' and above also have a numbering system labeled on frame sections 'H' and above. Align the numbers vertically as you stack the frame sections to ensure that the power runlines are correctly positioned. There is an example below showing Row H.



SEQUOIA TREES: FRAME INSTALLATION

STEP 3 SECURING THE FRAME

Secure the stacked rows together vertically with the provided U-clamps. Do not tighten the U-Clamps until you have placed all the U-Clamps for that row.



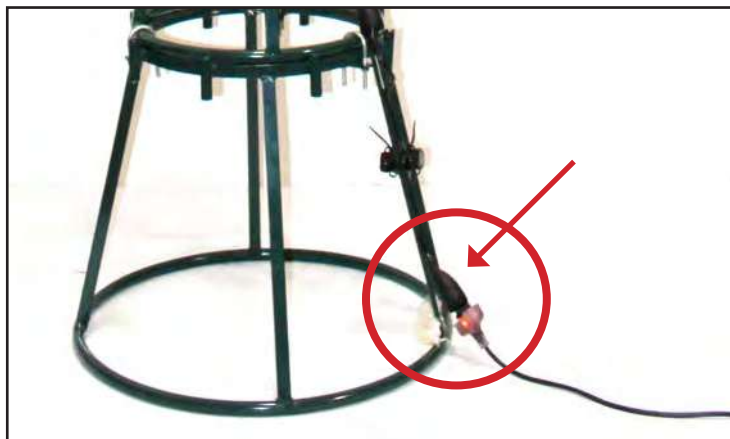
STEP 4 TOPPER INSTALLATION

After the top row (Row A) has been securely installed and the runline connected, slot in the Topper Pole on top of Row A. Align and connect the runline of the Topper Pole with the runline of Row A. Secure the Topper Pole on top of Row A by tightening the 6 units of M10 push bolts one by one.



STEP 5 LEAD CABLE CONNECTION

Plug the lead cable(s) to power supply (maximum 110V / 15A single phase per lead cable)





www.dekra-lite.com • 1.800.436.3627
3102 West Alton Avenue Santa Ana, Ca 92704

LED LIGHTS ON YOUR SEQUOIA TREE

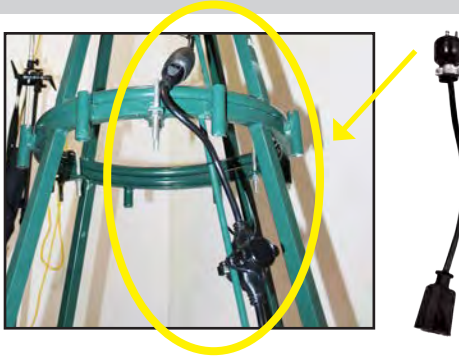
INSTALLATION INSTRUCTIONS



SEQUOIA TREES: LED BRANCH INSTALLATION

STEP 6 CONNECTING POWER

Connect the power runline vertically for power connection as you stack the rows. Do not wait until all rows are stacked to begin connecting power.



**LED
LIGHTING
ONLY**

***** BEFORE INSTALLING BRANCHES FLUFF THEM TO ACHIEVE THE MOST NATURAL AND FULL APPEARANCE *****



Unpack the branch and start to spread out the sub-branches to the left and the right.



Continue to spread out branches expanding the width of the branch, giving the sub-branches a slightly upward bend.



Finished branch will have full life-like appearance.

STEP 7 THE TREE TOP

Double check that all the rows from the ground up to the Topper Pole are securely tightened, and all runlines and lead cables are connected.

- (A) Lift the tree top (after fluffing)
- (B) Slide into the Topper Pole
- (C) Tighten the 3 bolts of the tree top with a ratchet wrench to secure the installation
- (D) Connect the male plug on the Tree Top to the runline of the Topper Pole
- (E) Light up the tree



**TIGHTEN
THESE 3
BOLTS WITH
A WRENCH
TO SECURE
INSTALLATION**

=



SEQUOIA TREES: LED BRANCH INSTALLATION

LED
LIGHTING
ONLY

STEP 8 THE UPPER SECTION POLE BRANCHES

*****Topper Branches can be identified by the red tips on the hook ends*****

All 6 special branches are marked with red paint and are a longer branch.

Install the Pole Branches on the Upper Section of the Topper Pole

- Hook the 1st Pole Branch (after fluffing) into the sleeve closest to the socket of the runline
- Plug in the socket of the runline to light up the 1st Pole Branch
- Hook the 2nd Pole Branch (after fluffing) to the sleeve,
- Make the power connection with the 1st Pole Branch by plugging the female connector with the male plug
- Continue hooking the neighboring branches and power connection to light up one by one until all 6 Pole Branches are installed and lit.



STEP 9 THE LOWER SECTION STANDARD BRANCHES

Install the Standard Branches on the Lower Section of the Pole. Hook the 1st Standard Branch (after fluffing see below) into the sleeve closest to the socket of the runline. Plug in the socket of the runline to light up the 1st Standard Branch. Continue hooking the neighboring Standard Branches (after fluffing) and the corresponding power connection of the light strings similar to the installation of the Pole Branches.



STEP 10 INSTALLING THE STANDARD BRANCHES

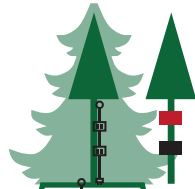
Install the Standard Branches (after fluffing) on Row A down to the bottom row. Starting at the top row of the tree and working your way down hooking the branches and connecting the power for the light strings until all the branches are installed. *** **Do not connect the lights (end to end) of more than 21 branches******

SEQUOIA TREES: LED WIRING DIAGRAM

LED
LIGHTING
ONLY

TOPPER

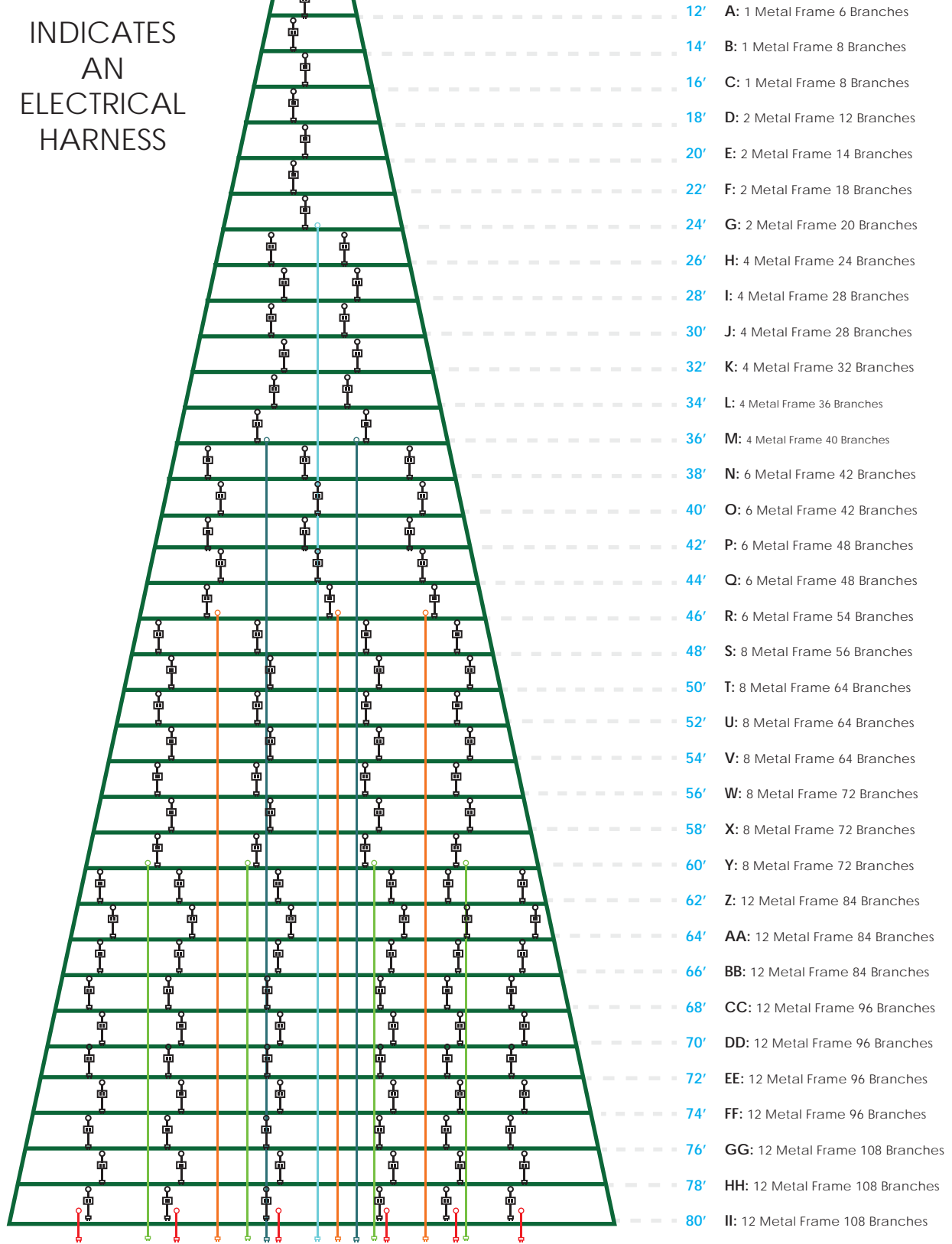
Red Branches
Pole Branches



6 Branches - Special Red Tip
6 Branches - Standard



INDICATES
AN
ELECTRICAL
HARNESS



SEQUOIA TREES: SPECIAL INSTRUCTIONS

**** SPECIAL INSTRUCTIONS **** FOR TREES TALLER THAN 26 FEET (ROW H AND ABOVE)

LED
LIGHTING
ONLY

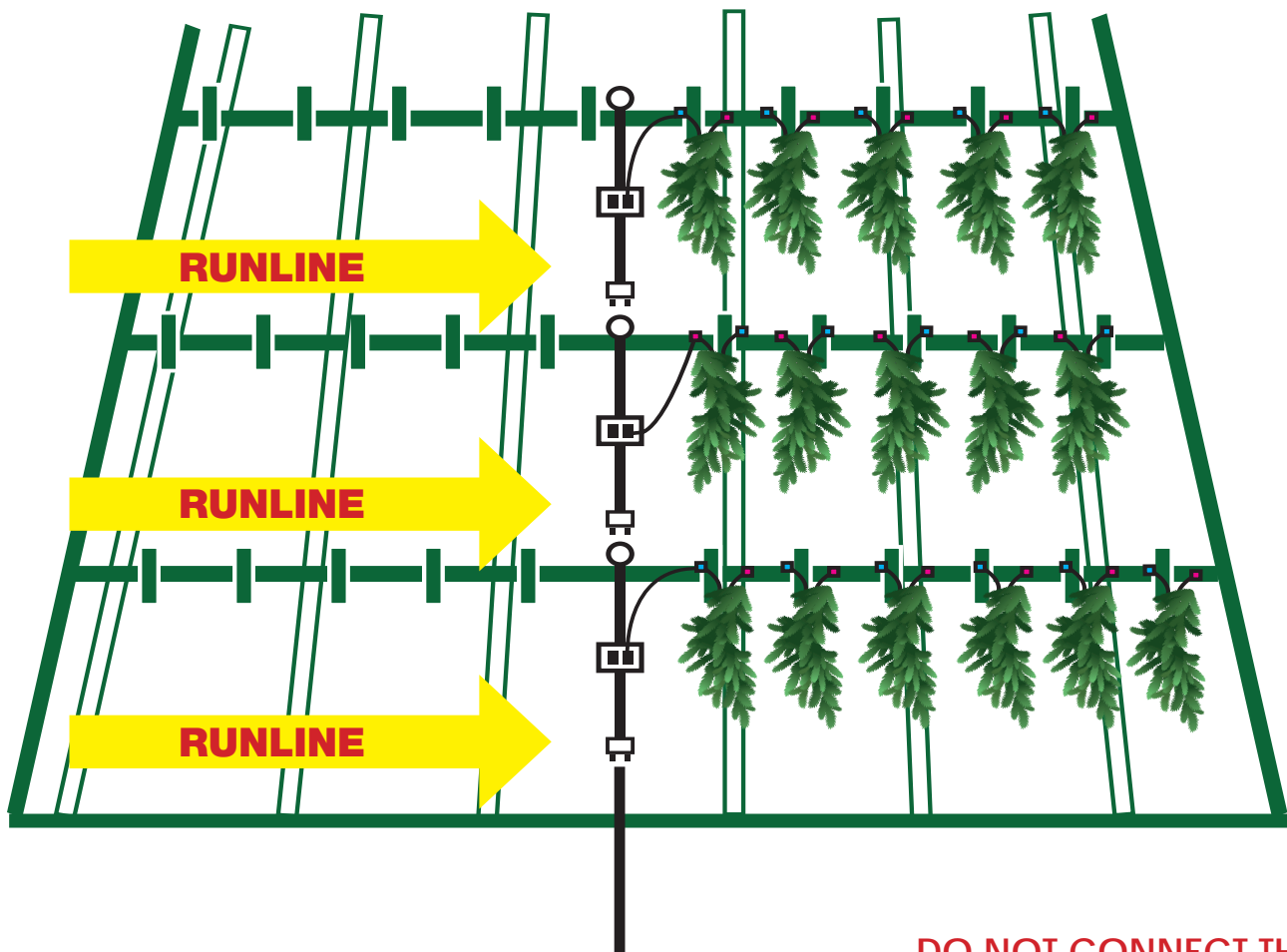
Start hooking the Standard Branches for the respective row to either side of the runline.



1) Start hooking the 1st branch from the left or the right of the runline and plug in the socket of the runline.

2) Hook the 2nd branch and connect with the first branch by plugging in the female receptacle with the male plug.

3) Continue hooking the branches and make power connections between the branches by plugging the female receptacle with the male plug.



LEAD CABLE

Connect to ground power supply. Maximum 15A single phase per lead cable.

**DO NOT CONNECT THE
LIGHTS (END TO END) OF
MORE THAN 21 BRANCHES
ON A SINGLE RUNLINE**