

## *20' x 20' Titan Series pole tent single piece top instruction and owner's manual*



**Important: Read this manual before installation or use of this product. Failure to do so can result in serious personal injury or damage to the product. RETAIN THIS MANUAL!!**

### **Notice to all installers and users**

The following instruction manual is provided as a guide to installers and users. The situations and conditions described in this manual cannot represent all situations that may be encountered during the installation or dismantling process. The use of common sense, good judgment, and safe practices must be followed to prevent injury and damage to the product.

### **Equipment/manpower for installation**

- \*Ground cloth, sledge hammer or breaker hammer fitted with stake driver bit and stake puller.
- \*A minimum of (2) adults are required for installation

### **Tent occupancy guidelines**

- \*Sit down (round tables) = 40
- \*Cathedral (row) seating = 64
- \*Stand up = 80

## Contents of this manual

Personal safety

Product specification sheet

Hardware (what's included)

Weather conditions

Installation site

20' wide (1 pc top) pole tent anchoring and staking

Installation procedure

Tent dismantling

Maintenance and Care

Warranty Information

## Personal safety

Personal safety must be practiced during the installation process to avoid injury to yourself and others. The following practices must be adhered to during installation and dismantling.

**\*Stay alert:** Be aware of surroundings at all times; never use drugs, alcohol or other foreign substances during installation or dismantling.

**\*Wear the proper safety attire:** hard hat, gloves, steel toed shoes, safety glasses, and hearing protection are required.

**\*Dress appropriately:** remove jewelry; do not wear loose clothing; keep long hair away from power equipment and other dangerous areas.

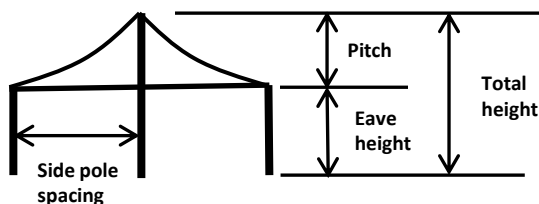
**\*Use proper lifting procedures:** use legs for lifting, do not lift heavy items alone

**\*Maintain balance:** do not over reach, maintain footing at all times

## 20' x 20' pole tent specification sheet

Feature	Specification	Note
Style / Series	Traditional / Titan Series	Pole supported tension tent
Width	20 ft / 6.1 m	
Length	20 ft / 6.1 m	
Total height	14 ft / 4.27 m	If using standard 7 ft side poles
Eave height	7 ft / 2.13 m	See diagram below
Pitch	7 ft / 2.13m	See diagram below
Area	400 sq ft / 37.2 sq meters	
Expandable	No	<b>Tent top is 1 piece</b>
Side pole spacing	10 ft / 3 m	
Number of side poles / legs	8	Single piece side poles
Side pole diameter / (thickness)	Aluminum = 2 3/8" / (5/32" = 0.156")	Galvanized steel = 2 3/8" / (1/16" = 0.062")
Side pole material	Round anodized aluminum	Galvanized steel available
Number of center poles	1	center poles are galvanized steel
Fabric weight	16 ounces/ yd <sup>2</sup> = 540 gsm	gsm = grams per square meter
Fabric type	PVC coated polyester	Blockout (non translucent)
Sidewall rope installed	yes	Can be replaced
Flame & UV resistant	yes	Meets NFPA 701 flame retardant requirements
Mold & mildew resistant	yes	
Water repellent / resistant	yes	Seams are heat sealed
Longest component	7'10" (2.4m) or 8'10" (2.7m)	Depends on side pole length
Total tent weight with <u>aluminum side poles</u>	304 lbs / 138 kgs	With 7' side poles (slightly more with 8' side poles)
Total tent weight with <u>galvanized side poles</u>	320 lbs / 145 kgs	With 7' side poles (slightly more with 8' side poles)

Diagram is a representation only and is not scale



- 8' long side poles available
- Galvanized steel side poles available
- All center poles are galvanized steel

## 20' x 20' pole tent hardware (what's included)


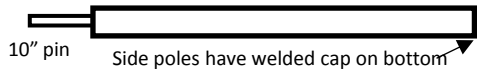

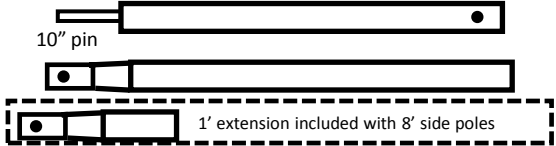

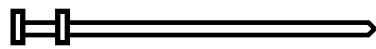

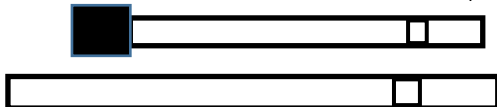
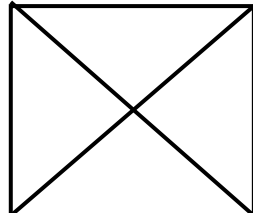

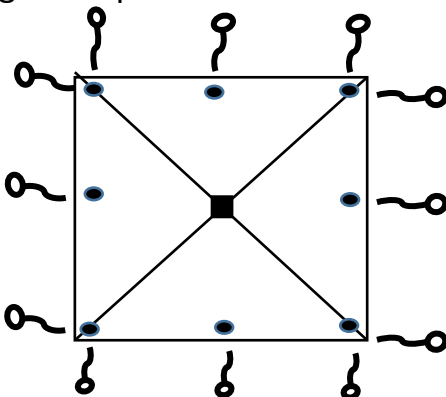
Symbol	Item	Size/length	Quantity	Diagram/description
	Side and corner poles (bottom is capped)	7' or 8' long (not including 10" pin length)	8	Poles may be aluminum or galvanized depending on customer order 
	2 piece center pole (top pole has open bottom)	14' or 15' (not including 10" pin height or 6" swage)	1	All center poles are galvanized structural steel tubing. Additional 1' insert for 8' legs. 
	Stakes	40" double headed stake	12	All stakes are double head 
	2" ratchet & strap assembly	5' loop with ratchet & 8' strap with loop	12	Ratchet buckle Loop 
NA	Tent top	20' x 20'	1	
NA	Tent top storage bag	NA	1	
NA	Wire lock pin	NA	1 (2 with 8' side poles)	 For securing the sectional center pole (s)

Diagram represents view from top of tent



Sidewalls not included and must be purchased separately

Weather conditions cannot be predicted and can change rapidly. The installer must use good judgment, common sense and have knowledge of the current and future weather conditions. Be aware of the following weather conditions:

**\*Rain** – Rain can cause water to collect in areas on the tent top. This added weight can cause damage to the fabric. Ground moisture can also cause the frame to sink in addition to the stakes losing holding force.

**\*Wind** – Do not install the tent in heavy wind conditions as it may cause damage to the top and frame. Wind can also cause an existing installed tent to lose tension in all areas.

**\*Lighting** – Do not install a tent in conditions where lightning can occur; All tent installers and occupants must evacuate until lightning has ceased.

**\*Snow/hail/ice** – Tents and shelters are not designed as permanent structures and cannot withstand the weight of snow/hail/ice loading. These products must NOT be installed in these conditions.

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## Installation site

The installation site is of the utmost importance. The installer must be aware of local building codes and fire regulations. The installer must also examine the installation site for the proper anchoring methods. The following must be verified to assure proper installation and prevent damage to the product.

**\*Underground utilities** – Always contact local utility companies prior to installation. Gas, electrical, cable, sewer, water, oil, and septic line presence must be verified.

**\*Overhead utilities/obstructions** – Always confirm if overhead utilities or obstructions can cause personal injury or damage to the product during installation.

**\*Soil conditions** – The soil conditions must be adequate to allow for secure anchoring

**\*General site condition** – the site must be relatively flat, elevated and free of clutter and debris.

**\*Area / space** – the site must have sufficient space to allow for anchoring

**\*Accessibility** – the site must be accessible for event deliveries such as trucks, vehicles as applicable

**\*Evacuation / exit** – the site must have adequate evacuation routes in the event of emergency

### Installer responsibilities prior to staking and anchoring:

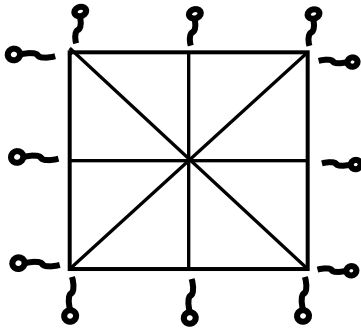
\*Assure that the canopy, tent, shelter, or structure is properly secured.

\*Contact all related underground utility “call before you dig” authorities prior to staking.

\*Note: Dremcor LLC assumes no responsibility for the method of installation that the installer chooses or the failure to contact the proper authorities as noted above. Each state, county, township or city may have unique temporary structure installation codes and requirements so it is important that the proper codes & requirements are followed. This manual may not recommend the correct quantity of stakes based on soil conditions at the installation site. It is the installer’s responsibility to install additional staking or tiebacks as needed.

## 20' wide pole tent anchoring & staking guide

Diagram represents overhead view



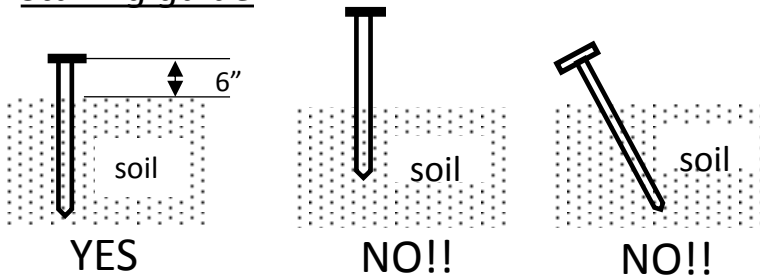
O = stake

~ = ratchet / strap assembly

Tent size (W x L)	Minimum stake length (inches)	Number of stakes	Number of ratchet/ strap assemblies
20' x 20'	36"	12	12
20' x 30'	36"	14	14
20' x 40'	36"	16	16
20' x 50'	36"	18	18
20' x 60'	36"	20	20

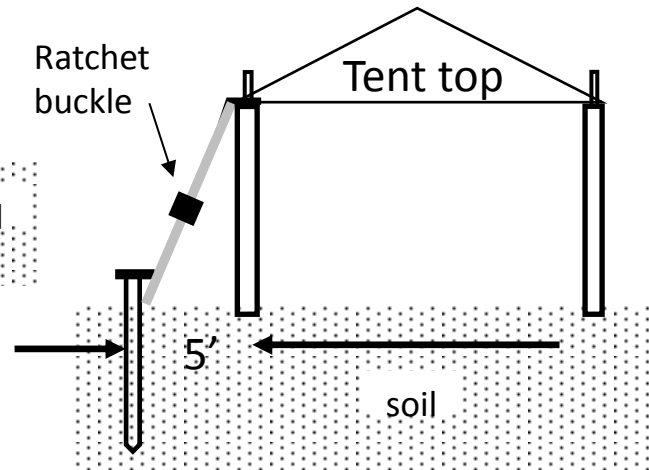
Above left diagram represents a 20' x 20' pole tent. Same condition applies to pole tents longer than 20'.

### Staking guide



\*Stakes must be vertical with no more than 6" above soil

\*Stakes cannot be more than 10 degrees "off center angle"



\*Stakes should be spaced approximately 5' from legs

### Ratchet/strap attachment guide

Securing strap to tent top  
(see below)

Securing strap with ratchet to the stake  
(see below)



#1



#2



#1



#2

Option #1: Noose loop pulled tight thru plate  
Option #2: S hook attached to plate; up to (3) S hooks can be installed to the white plate  
Dremcor has both strap options available for purchase

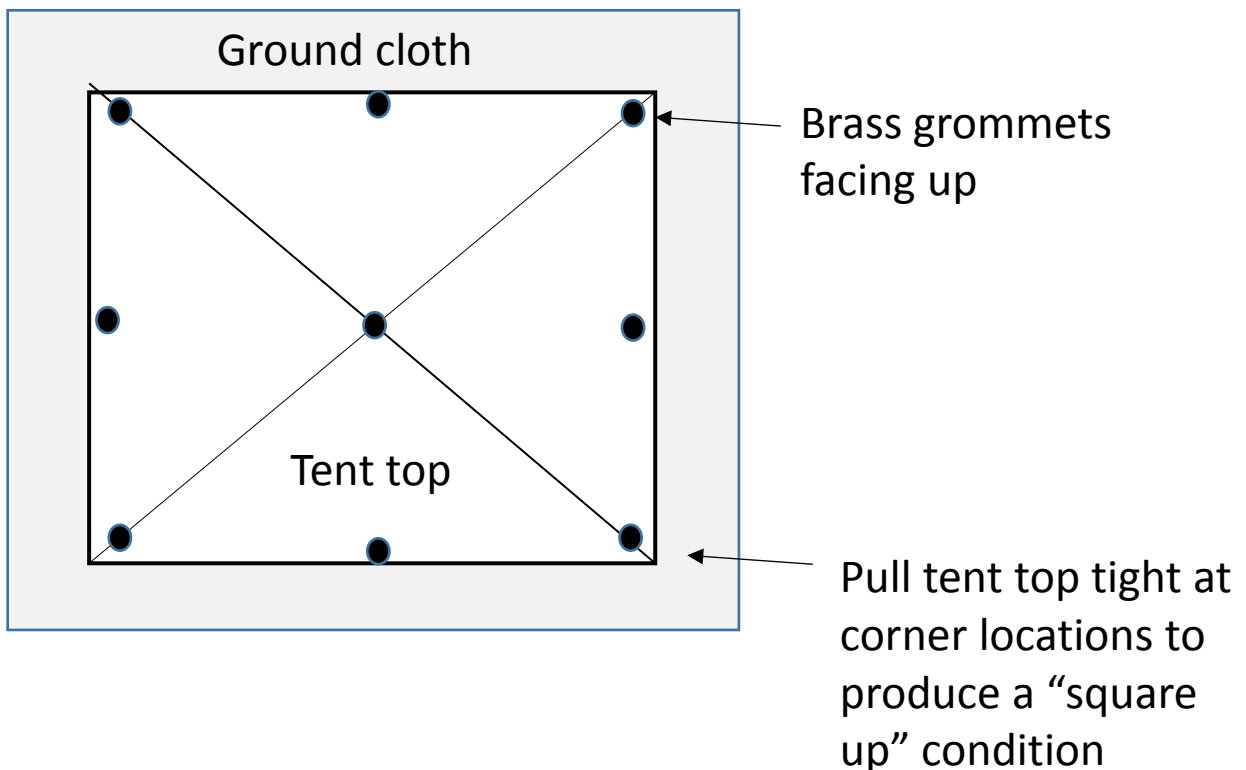
Option #1: Noose loop around stake  
Option #2: Stake inserted to double D ring  
Dremcor has both strap options available for purchase. Double D ring option eliminates noose forming and chance of strap pulling over top of stake

## Installation procedure

### Ground cloth and tent top preparation

- \*Layout a ground cloth or protective tarp in the location where the tent will be installed. The ground cloth should be larger in area than the tent top to offer complete protection for the tent top (see diagram below)
- \*Remove the tent top from the storage bag and unroll onto the ground cloth. The brass grommets must be facing upward when unrolling the tent top (see diagram below)
- \*Pull the tent top tight around the perimeter while keeping a “square” condition. The tent top will not be flat due to the slope & design of the tent. **DO NOT WALK ON THE TENT TOP AS IT CAN CAUSE DAMAGE.**

View from top of installation site



Note: The above diagram represents a 20 x 20 pole tent. The same concept applies to pole tents regardless of size.

## Installation procedure (continued)

### Stake and ratchet preparation

\*Attach the S hook strap or 8' loop strap (strap without the ratchet buckle) to the white aluminum plates at each corner and side location. Note that (2) loop straps will be installed on each corner. Turn the loop strap inside out and pull the strap thru the loop to create a noose and pull tight (see anchoring and staking page for additional options and photos).

\*Layout the stakes and ratchet hardware around the perimeter of the tent top. Place (2) stakes and ratchet/strap assemblies at each corner 90 degrees apart.

\*Drive the stakes into the ground vertically approximately 5' from the grommet locations. The top of the stakes should have no more than 6" exposed above the ground (refer to anchoring and staking section for additional details).

\*Attach the ratchet with loop strap to the stake by turning the loop inside out and pulling the ratchet thru the loop over the stake head to create a noose and pull tight. The noose must not come off the head of the stake when pulling tight (see anchoring and staking page for additional options and photos). Double D rings are available for stake attachment (see photo below)

Option #1 (loop strap)



Option #2 (Double D ring attachment – optional purchase)



\*For each of the ratchet assemblies, insert the loop strap into the reel bar slot of the ratchet with loop assembly and tighten the ratchet slightly. Note the ratchet handle should be facing upward.



## Installation procedure (continued)

### Pole installation

\*Layout the corner and side poles around the perimeter of the tent top in the brass grommet locations. **DO NOT PLACE THE POLES ON THE TENT TOP.**

\*Insert the corner pole pin thru the white aluminum plate on the underside of the tent top and thru the brass grommet at each corner location. **CARE MUST BE TAKEN NOT TO DAMAGE THE TENT TOP IN THIS PROCESS. USE ONE HAND TO PLACE ON TENT TOP AND OTHER HAND TO POSITION THE PIN THRU THE HOLES (SEE DIAGRAM BELOW)**

View from underside of tent top



View from topside of tent top



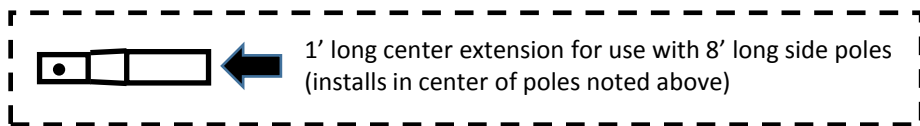
\*Tie off the jump ropes attached to the aluminum plates at each corner pole location. The jump ropes secure the tent top to the poles in the event of wind.

\*Assemble the center pole by sliding the pole with 10" pin over the swaged end bottom center pole (see diagram below). Align the holes and insert the wire lock pin and latch the wire properly to the pin. **THE WIRE LOCK PIN MUST BE INSTALLED AND SECURED PROPERLY TO PREVENT PERSONAL INJURY AND PRODUCT DAMAGE. (See wire lock pin correct assembly photo below).**

Top center pole with 10" long pin



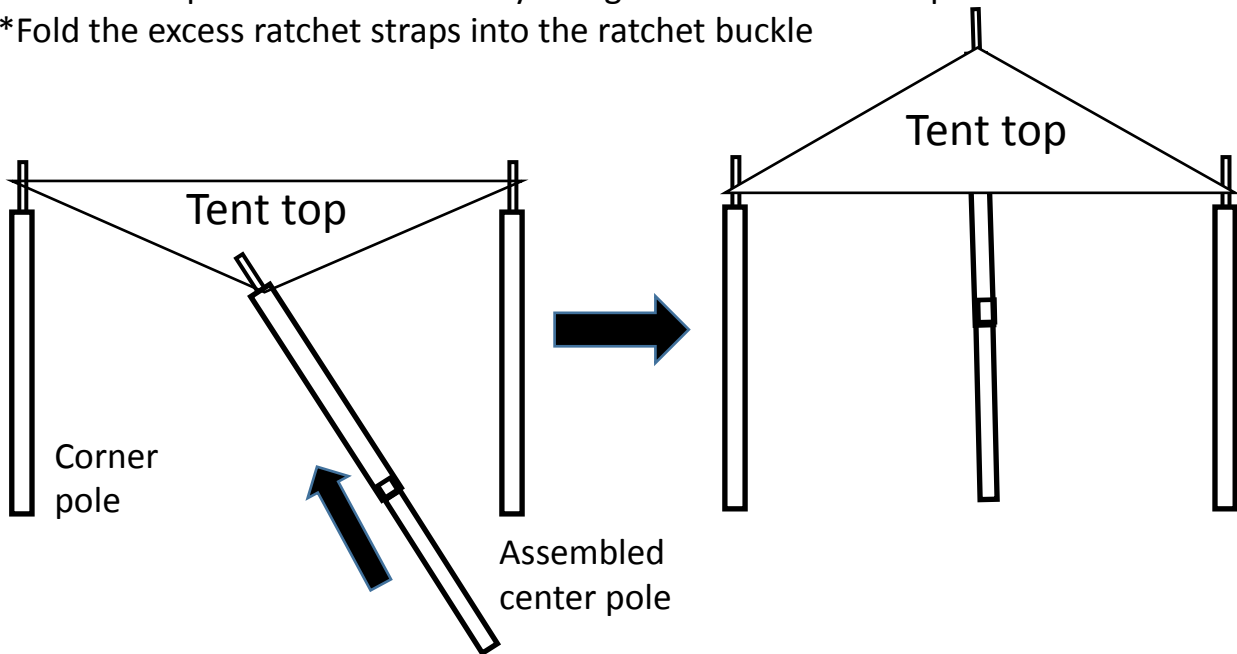
Bottom center pole with 6" long swage



**Important note:** The top center pole does not have a weld on bottom cap. The side and corner poles have the weld-on bottom caps.

## Installation procedure (continued)

- \*Insert the center pole pin thru the top of the center white aluminum plate and the brass grommet. CARE MUST BE TAKEN IN THIS STEP SO THE PIN DOES NOT DAMAGE THE TENT TOP.
- \*Lift the center pole and move the bottom toward the center of the tent while leaving at an angled position (see diagram below)
- \*Tie off the center pole jump rope that is attached to the center aluminum plate. The rope should attach around eye level when standing on the ground.
- \*Remove the drop cloth and lift the center pole into an upright vertical position.
- \*Install the side poles and tighten the ratchets until all poles are vertically straight. This step may require some ratchet and strap adjustments.
- \*The center pole must be vertically straight at the end of this process.
- \*Fold the excess ratchet straps into the ratchet buckle



## Tent dismantling

- \*Loosen the ratchet assemblies and remove the side poles only.
- \*Lift and angle the center pole slight to reduce tension on top.
- \*Place ground cloth or tarp under the tent
- \*Loosen the center pole jump rope and remove the center pole.
- \*Loosen the corner ratchets and remove the corner poles.
- \*Disassemble all ratchet assemblies and remove the stakes
- \*Fold and roll the tent top as tightly as possible to fit into the storage bag. DO NOT WALK ON THE TENT TOP.
- \*Place the tent top into the storage. DO NOT STORE THE TENT TOP IN THE BAG WHEN WET.

## Maintenance and care

Dremcor provides high quality products that can last for many years of use. Failure to maintain and care for the tent top can result in premature wear and degradation. The following procedures are strongly recommended to maintain your product.

- \*Never place the tent top on rough surfaces such as gravel, asphalt, tree limbs, rocky soil, and concrete. These surfaces can cause pinholes. Always use a ground cloth during installation and disassembly.
- \*Clean your tent top regularly with a soft brush and neutral cleaners
- \*Never walk on the tent top as this can cause pinholes and damage.
- \*Never store tent tops when wet. This will promote mold and result in premature degradation of the fabric.
- \*Do not use harsh cleaners with contain bleach or solvents.
- \*Do not use excessively abrasive and intense cleaning methods such as power washers and wire brushes.

## Warranty information

Dremcor LLC warrants this product to be free from material and workmanship defects for a period of (1) year from the date of purchase. Warranty applies to the original purchaser only and is non transferable. All products are thoroughly inspected during the manufacturing process and prior to shipment. The following defects/conditions are NOT covered under warranty:

- \*Damage caused by failure to follow proper installation procedures
- \*Damage caused by improper anchoring procedures and/or insufficient anchoring
- \*Damage caused by failing to use ground cloths or tarps
- \*Damaged caused by Acts of God including (not limited to); tornadoes, hurricanes, floods, excessive wind, hail, lightning, etc
- \*Damage caused by insects, rodents, and animals
- \*Damage/deterioration caused by improper storage
- \*Pin holes, tears caused by walking on the fabric
- \*Repairs or modifications to the frame and/or fabric
- \*Damage caused by falling objects such as tree limbs
- \*Damage caused by use of harsh chemicals, fireworks, flames, sharp objects

In the event of a defect in material or workmanship, Dremcor LLC will replace or repair the product. Photos and an explanation of the defect may be requested of the purchaser. Dremcor LLC reserves the right to refuse warranty if the above exclusions are confirmed.

In the event of a warranty claim, Dremcor LLC will not compensate the purchaser for loss of income, wages, travel expenses, equipment rental and third party fees. Product purchase constitutes acceptance of these terms.