SUN SHADOW *shade structure system*

INSTALLATION INSTRUCTIONS

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REV: AC 130128

POLY-TEX
Greenhouse & Display Systems

SAFETY GUIDELINES

PLEASE READ THE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE BEGINNING TO ASSEMBLE THE STRUCTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

⚠WARNING

This structure is intended to be self-supporting once constructed with all frames, hardware, sheathing, sheeting, bracing, cables, and membrane in place and secured to the foundation as shown in the manual. Stability during construction, from winds and loads imposed during erection, is the sole responsibility of the installer. Observe safety codes required by your jurisdiction, and relevant safety practices for working at heights. Avoid the risk of electrical shock from overhead lines or electrical storms. Poly-Tex recommends contracting a licensed electrician to perform electrical work. Eye protection is recommended under all circumstances and hearing protection is recommended when cutting components with power tools.

Foundations

These instructions include minimum guidance for foundations based on the International Building Code. These minimums are suitable for some areas of the country but not all. Obtain a building permit if required in your jurisdiction. Engineered Certified foundation plans may be required by a building official before issuing a permit. Even if not required, seeking guidance from a qualified structural or civil engineer for the foundation design may improve the life of your structure.

⚠DANGER

No part of this structure is engineered to function as an anchorage point for a fall arrest system. Use a safety net or work from a safe work platform (i.e. scaffolding). Select a calm day for work. Wind can be sufficient enough to knock materials or workers off a work platform or ladder, resulting in a potentially deadly fall.

Overview of assembly procedure

While each structure and site is unique, and may require special considerations, these instructions are for a tilt-up method (where frames are assembled on the ground and tilted onto ground stakes or anchor rods using ropes or lifts). If installer is not confident to erect the structure, Poly-Tex suggests you hire a general contractor, carpenter, or similar licensed business familiar with construction to assemble and erect your structure.

⚠DANGER

Do not overload structure. Consult with a Poly-Tex representative prior to adding any amount of weight over the specified capacity of this structure. Basket purlins, shelving or any objects of significant weight shall not be hung, attached, or secured to roof or truss members in a manner that will overload the structure.

⚠WARNING

Do not walk on polycarbonate sheets. If the structure is to be covered with polycarbonate sheets,always use scaffolding for the erection process to avoid damage to sheeting and to ensure safety. Polycarbonate sheeting has UV coating protected with vinyl film on the exterior surface. Install sheets with the film intact and toward the exterior. Remove film once the sheet has been fastened in place.

SUN SHADOW
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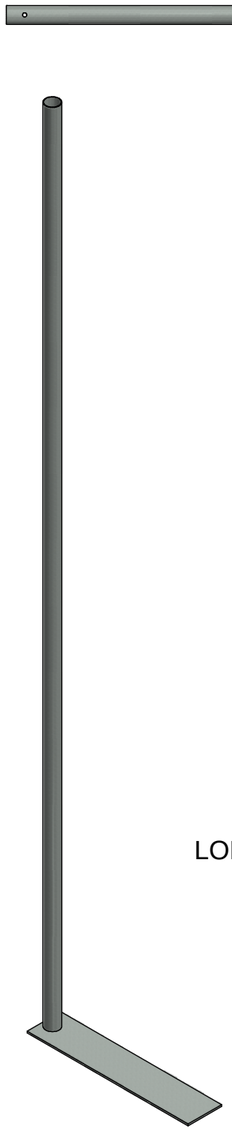
PARTS IDENTIFICATION



SU5060
POST W/PLATE 10' (SUN SHADOW)

SU5062
RAIL 119 1/2 PLAIN (SUN SHADOW)

SU5063
RAIL 119 1/2 SWAGE (SUN SHADOW)

SU5064
1.315 x 46 1/2 DIAGONAL BRACE

Z0497
28" EXTENSION (2" ROUND)
(OPTIONAL)

FT2079
LONG SPEED HOOK (2")

FT2063
SHORT SPEED HOOK (2IN) W/TABS

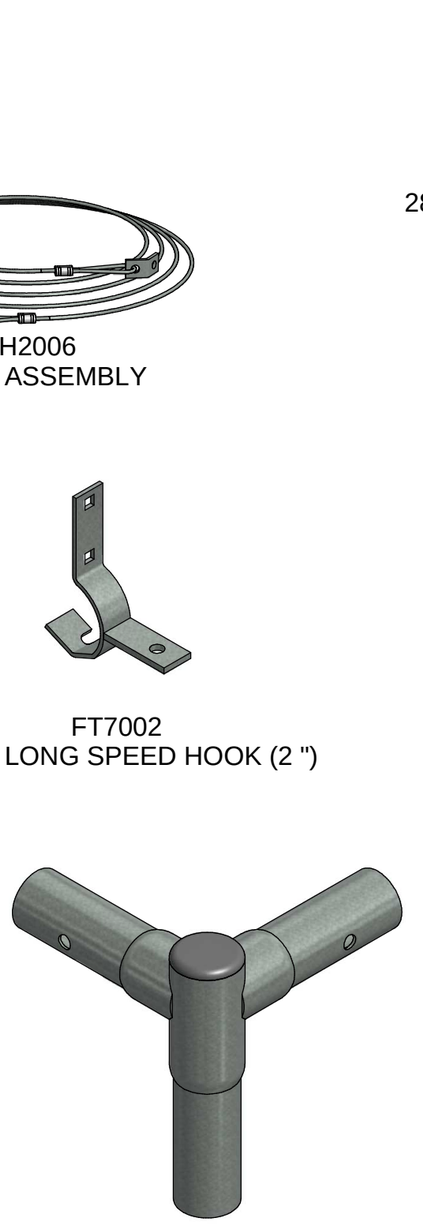
FT7002
2 WAY LONG SPEED HOOK (2 ")

NB1850
Ø5/16" x 2-1/2" HEX BOLT

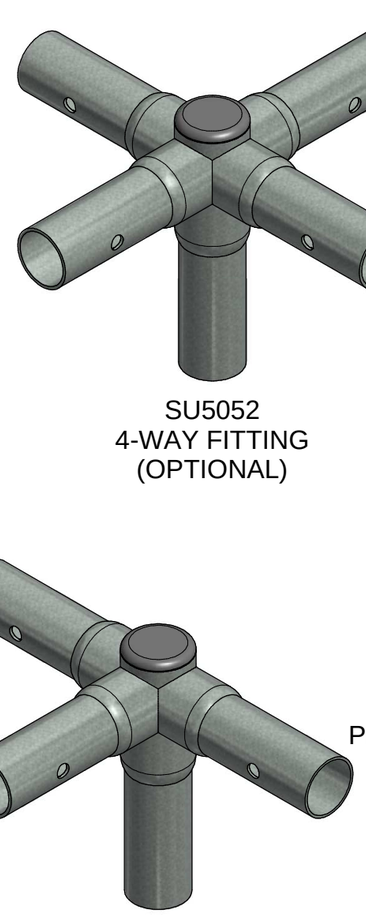
NB1832
Ø5/16" x 1-1/4" CARRIAGE BOLT

NB1872
5/16" HEX NUT

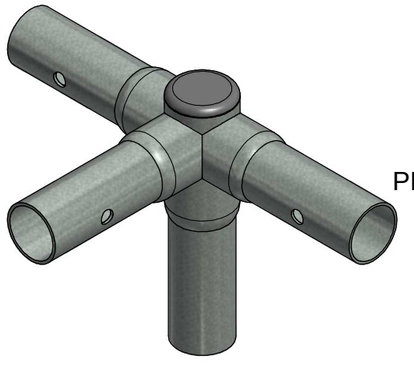
NB1862
5/16" LOCK WASHER



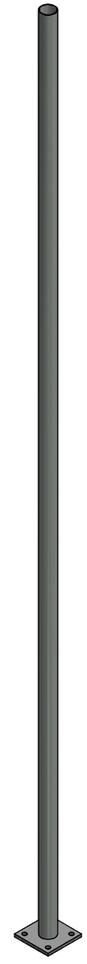
SU5050
CORNER FITTING



SU5052
4-WAY FITTING
(OPTIONAL)



SU5051
3-WAY FITTING
(OPTIONAL)



SU5061
POST 10" W/5X5
PLATE (SUN SHADOW)
(OPTIONAL)

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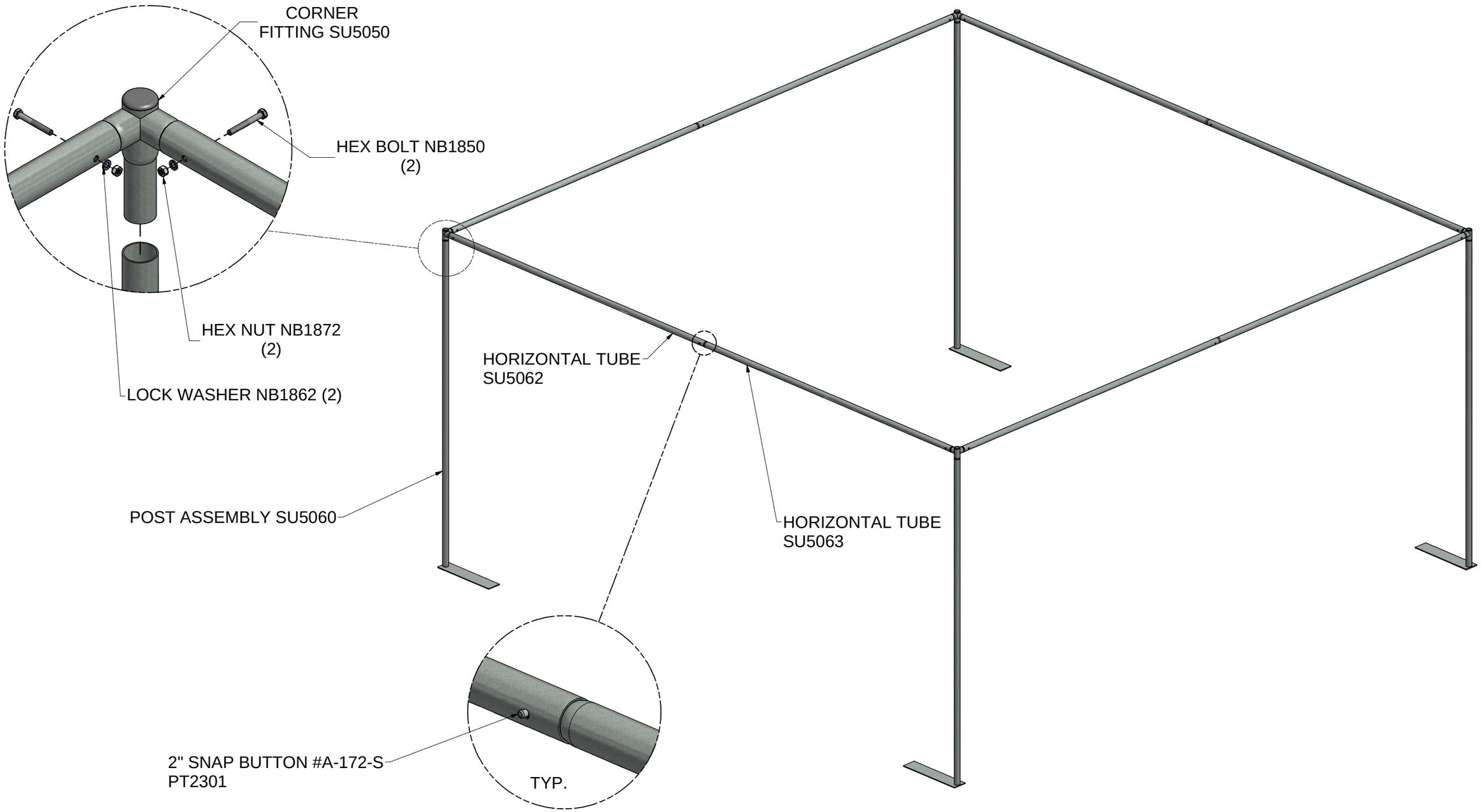
FRAME ASSEMBLY



Install corner fittings as shown. Tighten securely.

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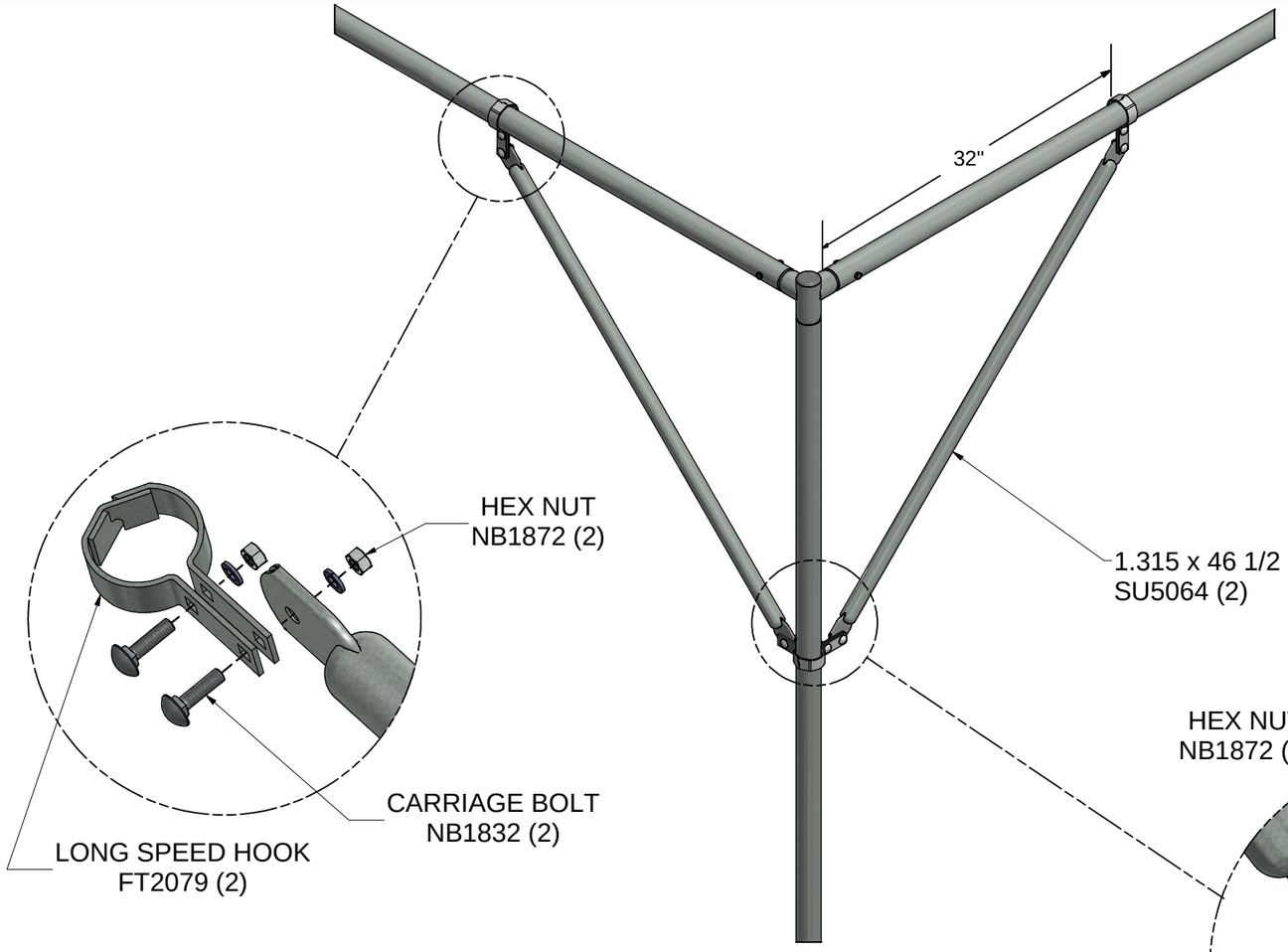
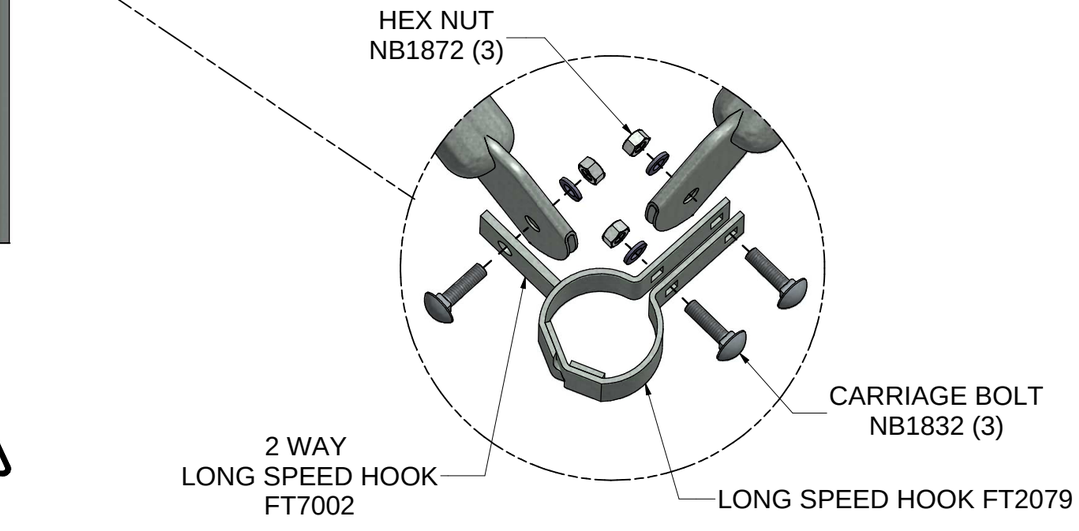
CORNER DIAGONAL BRACE

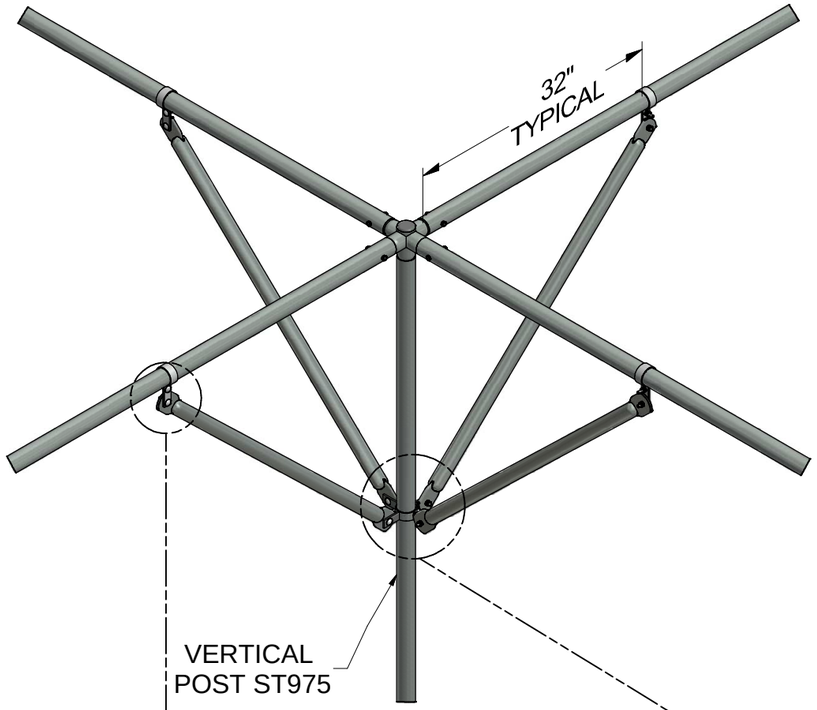




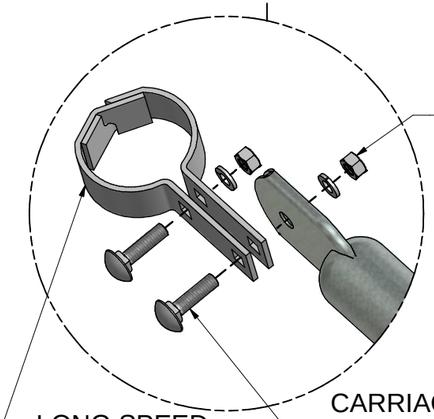
IMPORTANT NOTE:
ALL COMPONENTS ATTACHED TO
LONG SPEED HOOKS MUST BE
MOUNTED ON THE OUTSIDE OF THE HOOKS.
NEVER INSTALL COMPONENTS BETWEEN HOOKS.

Install diagonal braces as shown to ensure proper support of structure.
You may need to lift the horizontal tube to match the intended brace location.

DIAGONAL BRACES FOR 3-WAY & 4-WAY



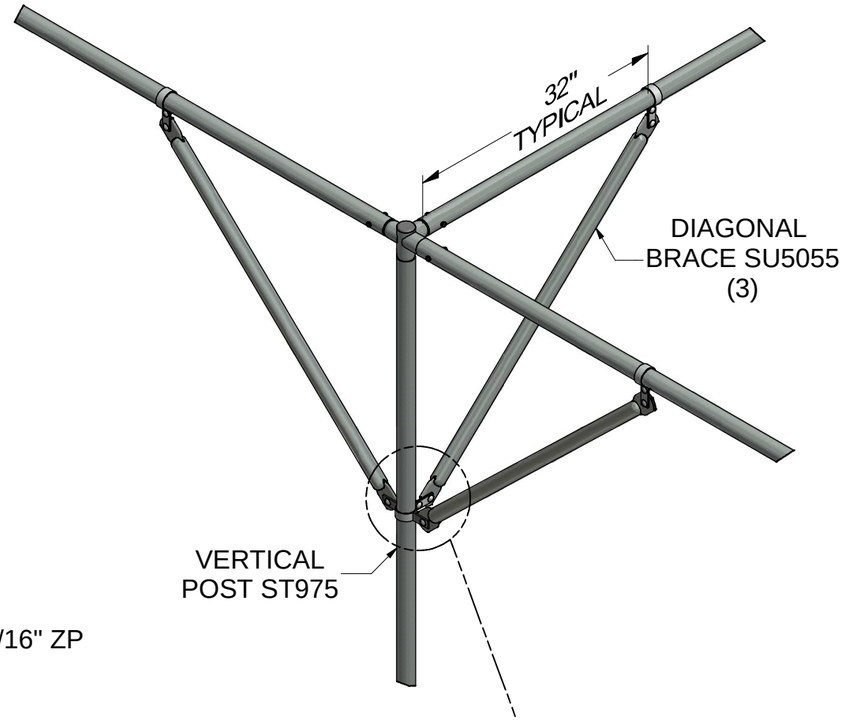
VERTICAL
POST ST975



HEX NUT
NB1872 (2)

LONG SPEED
HOOK
FT2079 (2)

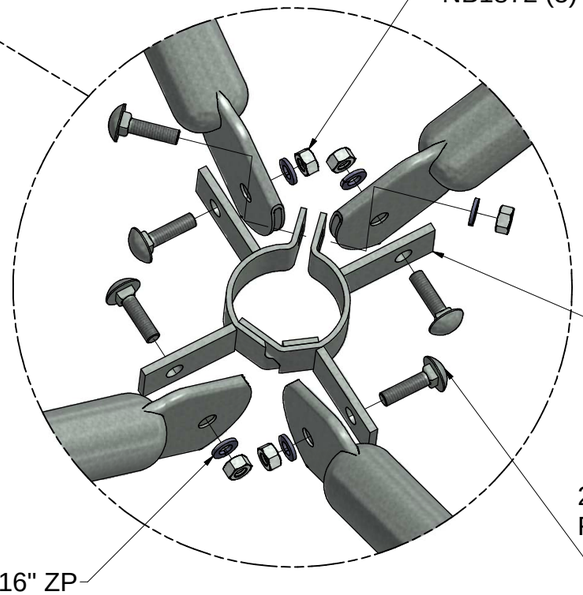
CARRIAGE
BOLT
NB1832 (2)



DIAGONAL
BRACE SU5055
(3)

VERTICAL
POST ST975

HEX NUT 5/16" ZP
NB1872 (5)

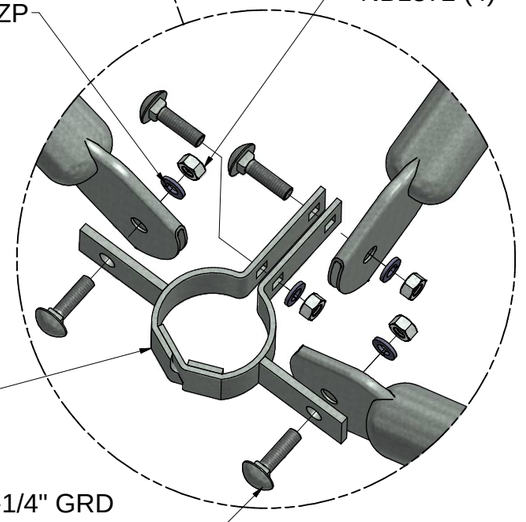


SHORT SPEED HOOK
(2 IN) W/TABS FT2063 (2)

LOCK WASHER 5/16" ZP
NB1862 (5)

HEX NUT 5/16" ZP
NB1872 (4)

LOCK WASHER 5/16" ZP
NB1862 (4)



2-WAY LONG SPEED HOOK
FT7002 (2)

CARRIAGE BOLT 5/16"x1-1/4" GRD
NB1832 (5)

CARRIAGE BOLT 5/16"x1-1/4" GRD
NB1832 (4)

IMPORTANT NOTE

ALL COMPONENTS ATTACHED TO LONG SPEED HOOKS MUST BE MOUNTED ON THE OUTSIDE OF THE HOOKS. NEVER INSTALL COMPONENTS BETWEEN HOOKS.

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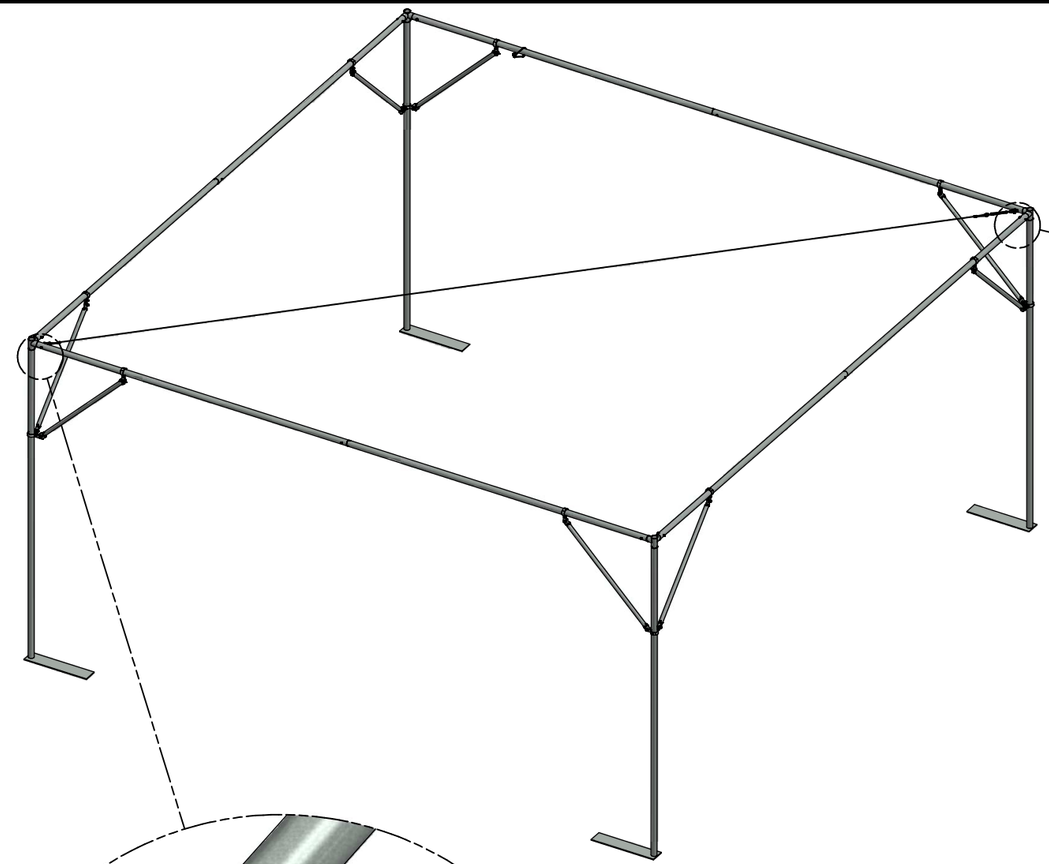
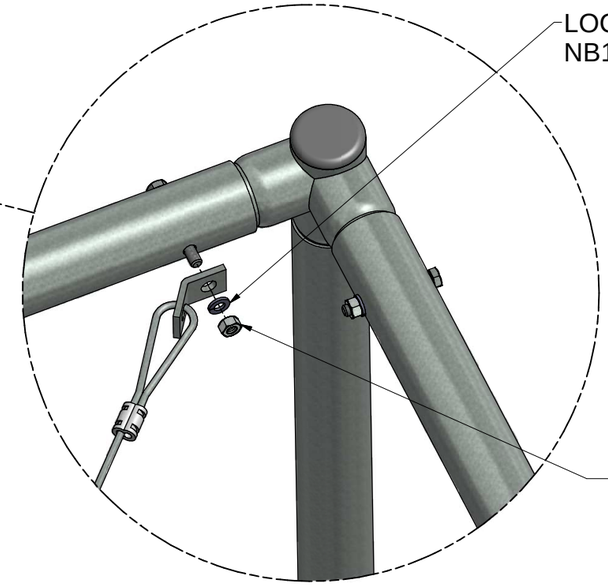
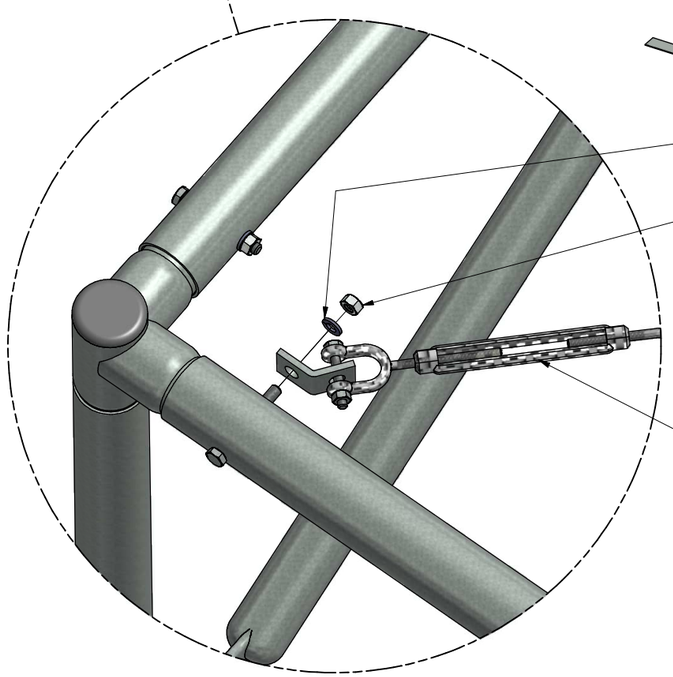
DIAGONAL CABLE INSTALLATION





DETAIL A



DETAIL B

INSTRUCTIONS:

1. Remove one 5/16" hex nut and one 5/16" lock washer from the inside of one corner fitting (DETAIL A). Do not discard.
2. Fasten bracket on non-turnbuckle end of cable assembly to top fitting as shown in DETAIL A.
3. Adjust turnbuckle to make cable assembly as long as possible.
4. Remove one 5/16" hex nut and one 5/16" lock washer from the inside of the corner fitting on the opposite side of the 20' x 20' section (DETAIL B).
5. Fasten bracket on turnbuckle end of cable assembly to top fitting as shown in DETAIL B.
6. Tighten cable assembly with the turnbuckle.
7. DO NOT OVER-TIGHTEN. The cable assembly should be taut, but not pull the corners toward each other.

BUNGEE INSTALLATION

INSTRUCTIONS:

1. **IMPORTANT:** WEAR EYE PROTECTIONS WHEN INSTALLING BUNGEE BALLS.

2. A BUNGEE MAY SLIP OFF IF NOT INSTALLED PROPERLY. OCCASIONALLY CHECK YOUR INSTALLATION TO ENSURE ALL BUNGEES REMAIN ATTACHED.

3. ONCE IN PLACE, MOVE BUNGEE SO BALL IS OVER THE GROMMET AS SHOWN.

4. WHEN REINSTALLING, INSPECT BUNGEE BALLS FOR WEAR OR DAMAGE. DO NOT USE DAMAGED BUNGEE BALLS.

5. ON ADJACENT SHADE USE ONE BUNGEE BALL PER GROMMET AS SHOWN IN FIGURE 1. **DO NOT DOUBLE UP ON THE GROMMETS PER BUNGEE BALL.**

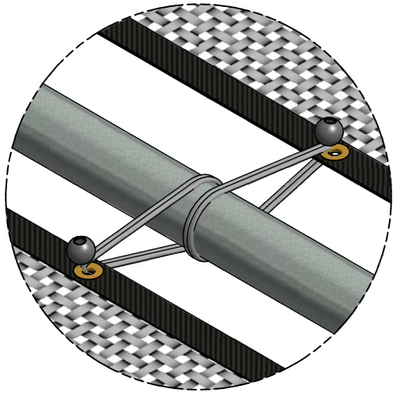
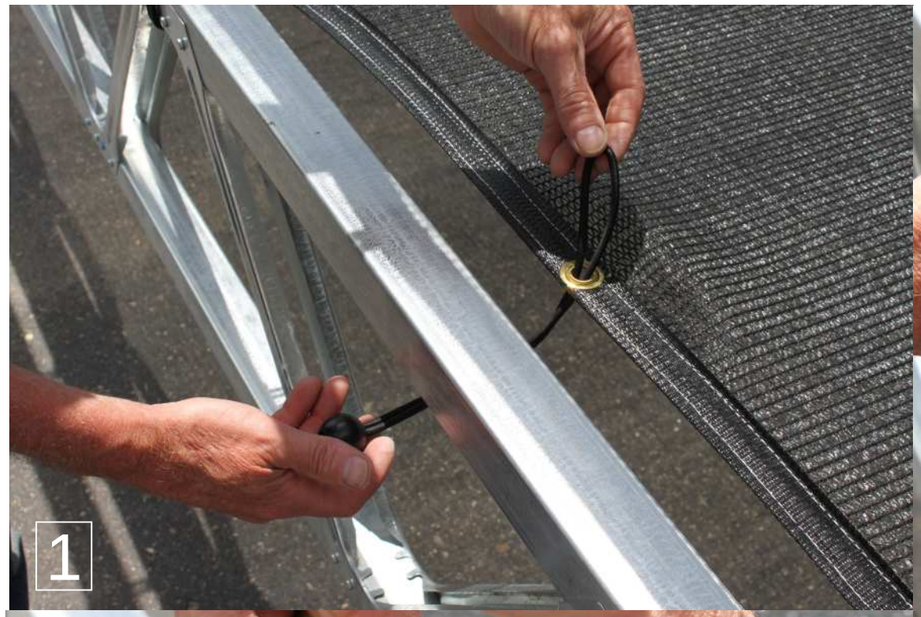
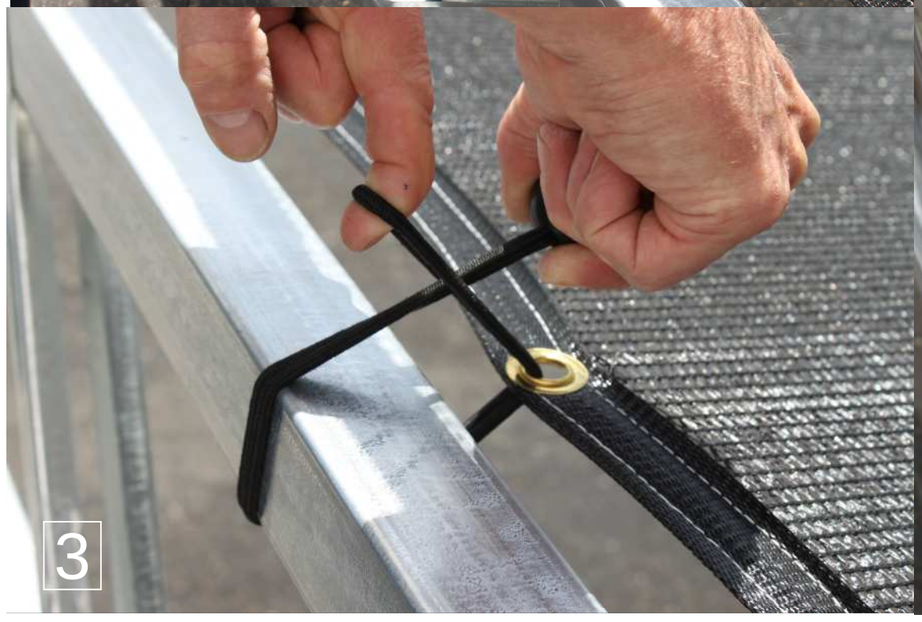


FIGURE 1





SHADE CLOTH INSTALLATION

WARNING: This product was not designed to support **ANY** amount of snow. Be sure all chances of snow accumulation have passed before installing the shade cloth. If by chance snow does accumulate on top of the shade cloth, **IMMEDIATELY** remove the bungee balls securing the shade cloth to allow snow to fall to the ground.

SAFETY GUIDELINES

Do not climb, sit on, or use this product as a ladder. Injuries may occur.

Do not place or install electrical items on this product. Electric shock may occur.

Do not place this product on a slope that exceeds 1/4" per foot.

Do not overload structure with hanging plants that weaken the structure's resistance to wind.

CARE & MAINTENANCE

Periodically (at least every two years) inspect items subject to wear for signs of deterioration, weakening, or significant corrosion.

Limited Warranty

Poly-Tex, Inc. warrants its products to be free from defects in material and workmanship for a period of (1) year from date of invoice. This warranty is provided to the original purchaser of the product and is not transferable. Poly-Tex does not warrant parts not manufactured by Poly-Tex, but does assign any transferable manufacturer or supplier warranties. Should any defect be found, full repair or replacement will be rendered to the customer at no cost following inspection by a Poly-Tex representative and the return of the defective product to our Castle Rock, MN factory. Expenses for removal or reinstallation of defective products will not be covered by the warranty.

POLY-TEX SHALL NOT BE HELD RESPONSIBLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY DELAY IN PERFORMANCE OF THIS WARRANTY BEYOND OUR CONTROL. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER IMPLIED, WRITTEN OR ORAL INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

This warranty does not cover damage from customer abuse, misuse, improper installation, customer modifications, customer negligence in performing normal maintenance, damage resulting from acts of nature.

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