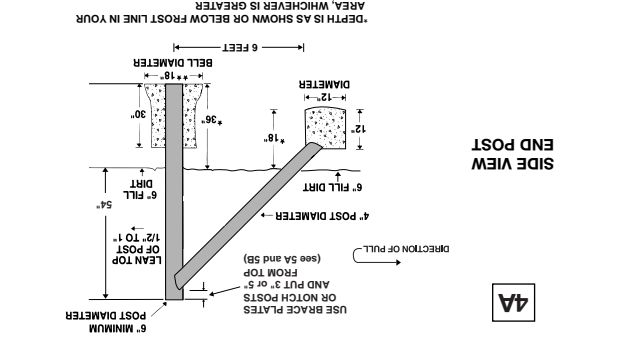
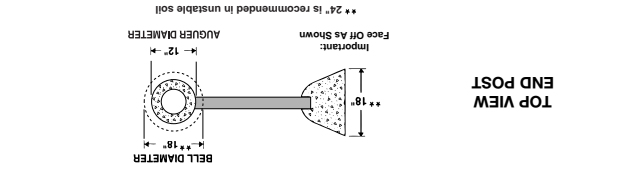


If a stronger end or gate post is required, use horizontal/vertical bracing as shown below.



END OR GATE POST

Setting End and Corner Posts as shown, is the key to a quality installation of a high-tensile polymer fence. Please note that concrete footings need to extend below the frost line and that footings for the upright End Posts must be bell-shaped and the diagonal brace footing is faced off as shown. Centaur™ HTP® recommends using CCA pressure treated round posts for all corners and end posts.

Post Type	Post Diameter	Length	Depth of Embedment	Line	Corner	Gate and/or Term.	Horizontal or	Diagonal Braces
Line	4" - 6"	7' - 8'	26" - 38"	36"	36"	NA		
Corner	5" to 6" min	8'	36"	36"	36"	NA		
Gate and/or Term.	6" min	8'	36"	36"	36"	NA		
Horizontal or	4" min	7 1/2' to 8'	36"	36"	36"	NA		
Diagonal Braces	4" min	7 1/2' to 8'	36"	36"	36"	NA		

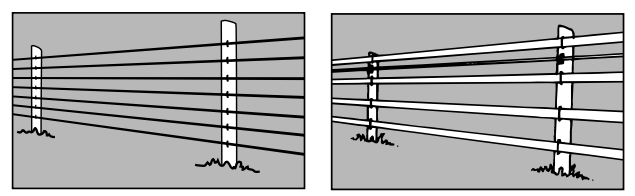
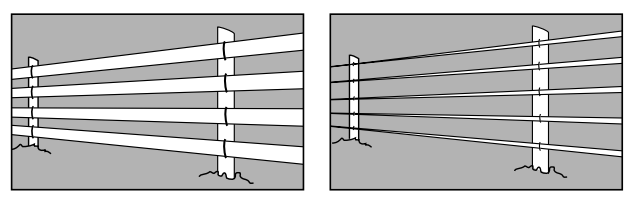
Listed below are the post specifications recommended for use with the Centaur™ HTP® Fencing Systems products.

POST REQUIREMENTS

- 1 -

CENTAUR HTP® FENCING SYSTEMS

INSTALLATION HIGHLIGHTS FOR SPUR HTP®, POLYSITE HTP®, POLYPLUS HTP® WHITE LIGHTNING™ POLYSTRAND HTP® AND POLYCHARGE HTP® RAILS

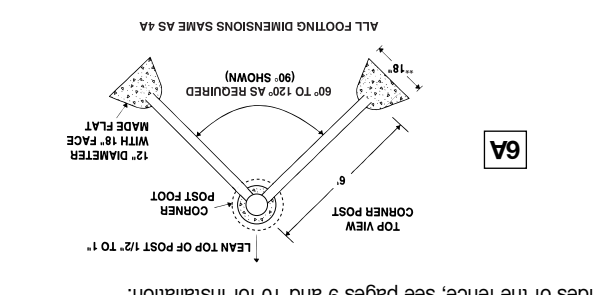
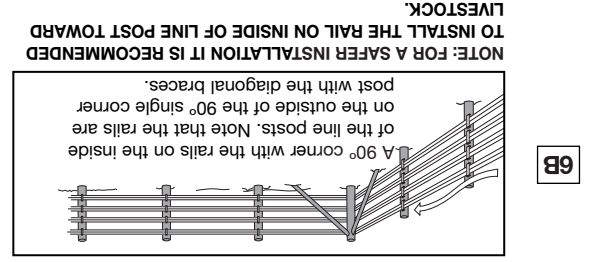
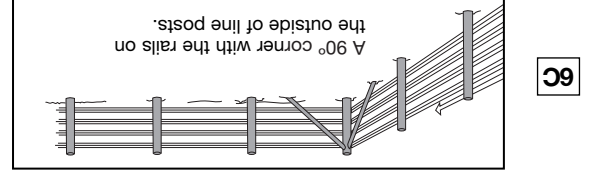
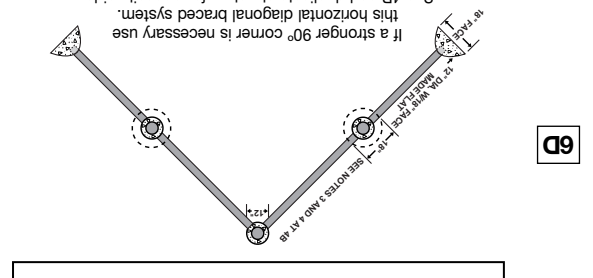


Designing the number and spacing of Centaur™ HTP® Fencing Systems rails to use is best determined by identifying factors of safety, congestion of animals, animal weight, importance of fence visibility, livestock in adjacent areas and animal behavior.

Once your fence design criteria has been determined and the necessary components are on hand, installing the fence correctly helps ensure it will perform the way you intended, and remain virtually maintenance-free. The steps outlined in this brochure are based on solid engineering principles and years of installation experience, but there are no guarantees that this information can cover all possible situations.

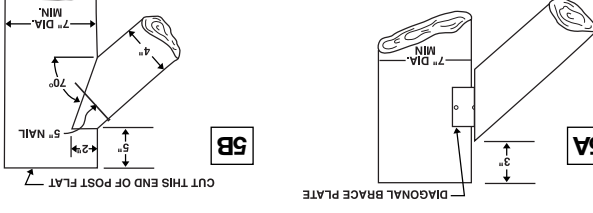


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Plan for the mounting of rails on the outside of the corner post when using a 90° corner as shown in illustrations 6B and 6C (see page 6). Only the Spur HTP® Rail can be mounted on the inside of a five-post rounded 90° corner using the brackets along with 5" nails. See 7A, 7B and 7C for layout and concrete footing requirements. For maximum strength and safety, rails should be mounted on the inside of line posts. An electric wire is recommended when animals are on both sides of the fence, see pages 9 and 10 for installation.

CORNER POSTS



Illustrations 5A and 5B represent two recommended ways to attach the diagonal brace post to the end or gate post.

- 2 -

COMPONENTS & ACCESSORIES

385278	5" nails, pack of 21 (1 lb.)
385280	3 1/2" nails, pack of 36 (1 lb.)
385283	Crimp fittings for 12.5-ga. wire, bag of 10
385276	Wire link for 15-ga. wire, pack of 2
385274	Wire link for 12.5 ga. wire, pack of 3
385270	Tensioner, pack of 2
365010	PolySite Staples (100)
365011	PolySite Accessories Kit
385295	Staples, pack of 52 (1 lb.)
385171	Brace Pins (3/8" x 10"), bag of 25
385290	Diagonal Brace Plate, pack of 8
345121	Tensioner Handle
385112	Crimp Fitting Tool
385135	Wire Tightener Tool
385120	Spinning Jenny
345150	Spur Tensioner Cover, White
345151	Spur Tensioner Cover, Black
345152	Spur Tensioner Cover, Brown
385198	Insultube 4" piece, White, Bag of 100
385199	Insultube 100' Roll, White
385200	Insultube 4" piece, Black, Bag of 100
385201	Insultube, 100' Roll, Black
385261	T-Post cover with Cap, White
385260	T-Post Vinyl Coated Clips White, Bag of 50
385133	Insulator Wood Post Black, Pkg. 25
385231	Insulator Wood Post White, Pkg. 25
385136	Insulator T-Post Black, Pkg. 25
385221	Insulator T-Post White, Pkg. 25

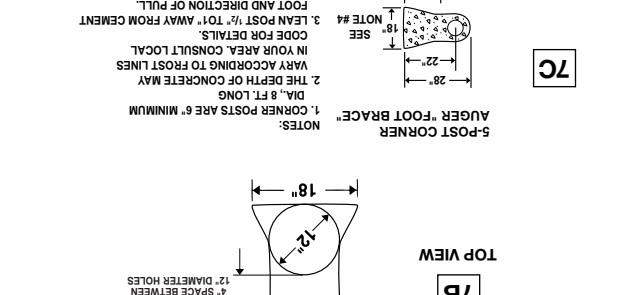
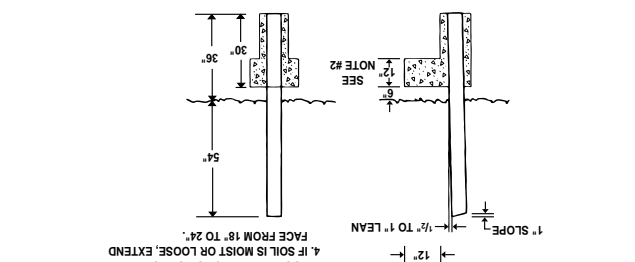
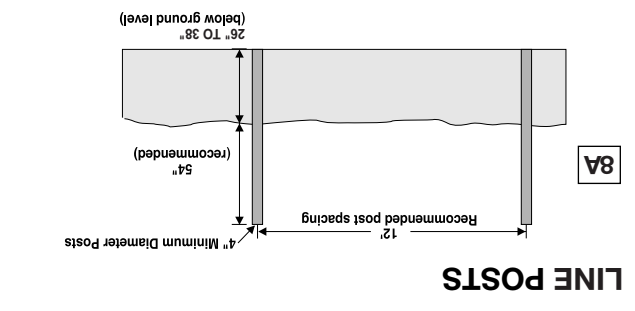
* Spur Brackets, please inquire

WARNING

As no fence product is totally safe, there remains a potential for injury to livestock. Therefore, Centaur™ HTP® Fencing shall in no event be responsible for any injury to persons, livestock or personal property.

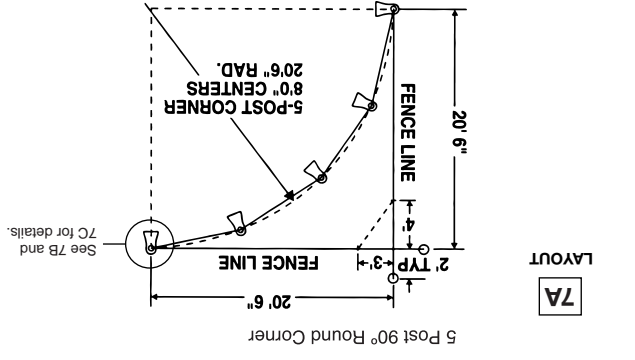
#385098

Spacing of 8, 10, or 12 foot centers is recommended. If reduced spacing is required, additional brackets or staples will be needed. Seven to 8-foot long by four-inch minimum diameter posts are recommended. NOTE: Every post that is not in a straight line works as a corner and needs to be reinforced with concrete as shown in 7B and 7C.



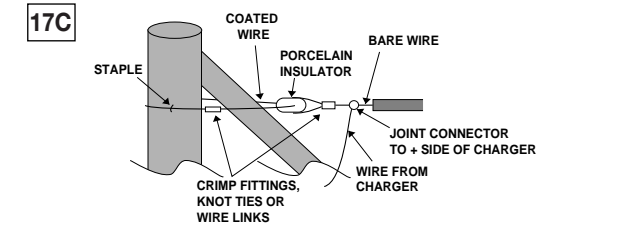
LINE POSTS

Note: Spur HTP® Rail can be installed on the inside of corner posts with the powder coated brackets along with 5" nails.

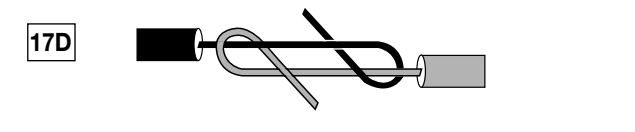


- 3 -

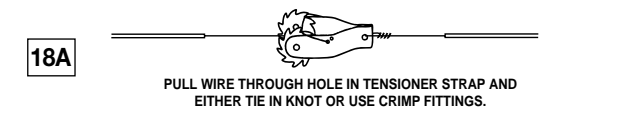
Figure 17C illustrates one method of securing and insulating a "hot" wire at an end-post. Follow the instructions the manufacturer of your charger gives for connecting the unit to the fence wire, but always attach it to the bare wire.



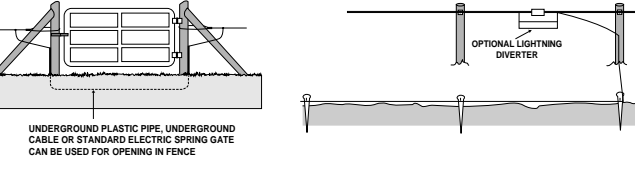
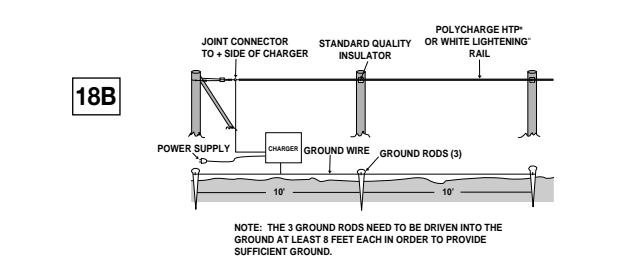
Since Polycharge HTP® and White Lightning™ fence rail requires more connections than regular non-conductive rails, use of a crimping tool and crimp fittings for 12.5 & 15-gauge wire are a good idea. A secure knot alternative is also shown below.



Using a tensioner to take up the slack on Polycharge HTP® or White Lightning™ rail is best done with the tensioner installed in-line as shown below. A standard wrench can be used to tighten wire.

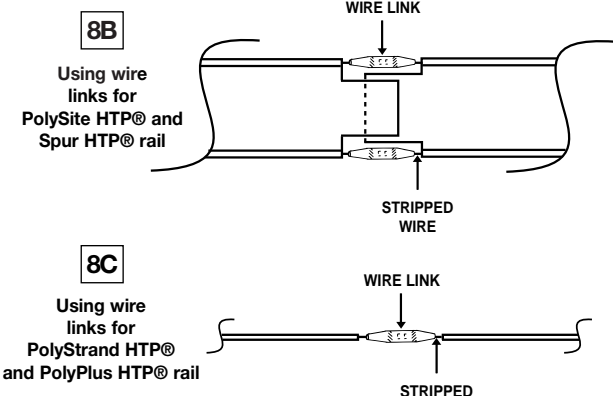


The illustrations 18B, 18C and 18D are offered with the understanding that your charger supplier may offer instructions unique to their product. Though we show generally used diagrams for grounding the charger, wiring across gate openings, and protecting against lightning strikes; we defer to the charger supplier suggestions if different from those offered here.

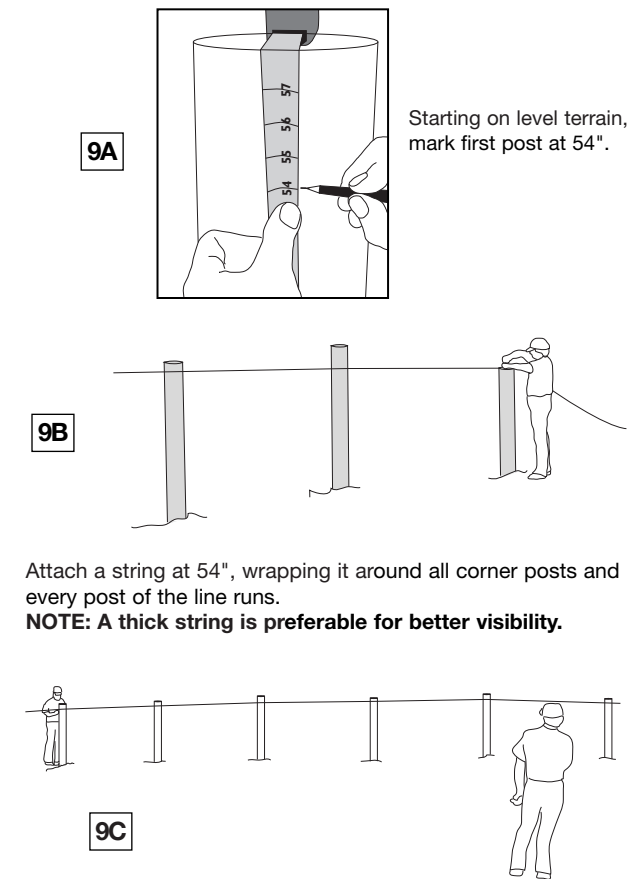


UNDERGROUND PLASTIC PIPE, UNDERGROUND CABLE OR STANDARD ELECTRIC SPRING GATE CAN BE USED FOR OPENING IN FENCE

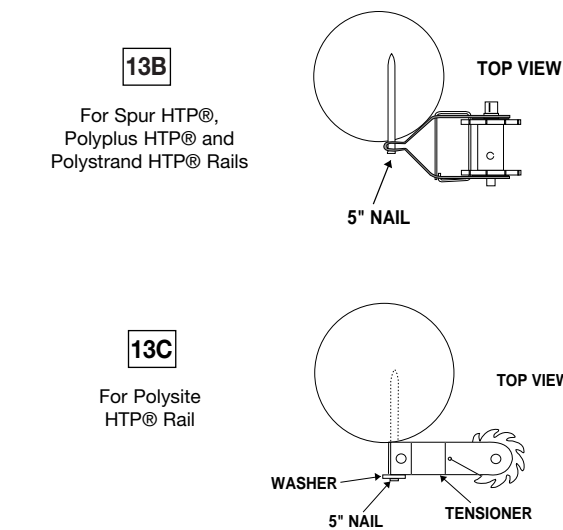
SPLICING



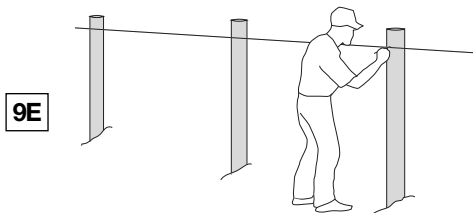
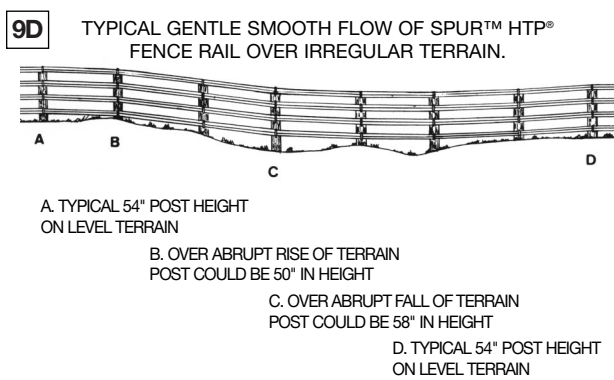
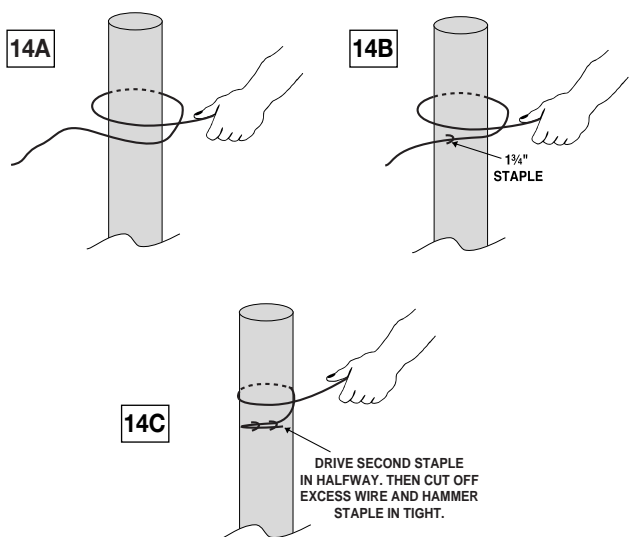
DETERMINING THE TOP OF THE POST



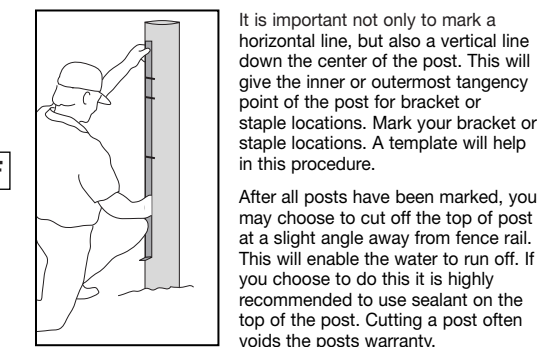
When installing Polysite HTP® and Spur HTP® rails, tensioners are to be attached at the beginning and end of each continuous run of fencing. These have a dual purpose; 1) to secure the rail to the gate or end posts, and 2) to tension your fence. With five inch nails, attach the tensioners to the gate end posts as shown. For Polyplus HTP® and Polystrand HTP® rails, a total roll length can be pulled using only one tensioner. (For electric fence see pages 9 and 10.)



Secure the Polyplus HTP® or Polystrand HTP® rail to the end or gate post as shown in the three illustrations below. On opposite end use tensioner to secure to end or gate post.

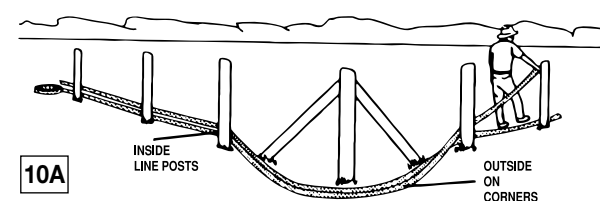


Put a mark at the intersection of the string and the post. This is the top of the post.



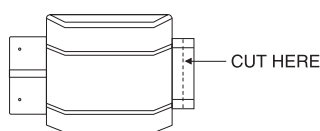
PAYING OUT RAILS

In preparation for the installation of the brackets or staples, pull fencing rails down the inside of line posts and on the outside of corner posts and braces (see diagram 10A). Up to a total roll length of 660' can be installed in one continuous run when using the Polysite HTP® or Spur HTP® rail. A total roll length can be installed when using the Polyplus HTP®, Polystrand HTP®, Polycharge HTP® or White Lightning™ rails. If rails need to be spliced together you can use wire links. See 8B and 8C.

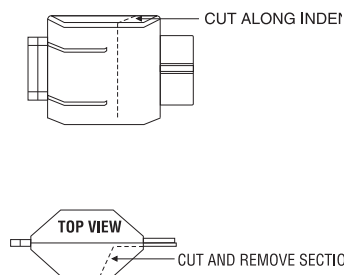


INSTALLING TENSIONER COVER FOR SPUR HTP® RAIL ONLY

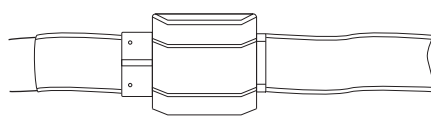
1. With the aid of a hacksaw, cut along indented line as shown. Remove and discard end cap. Caution: The use of a knife could result in serious injury.



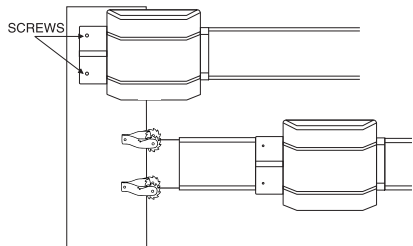
2. With the aid of "tin snips", cut along indented lines as shown below. Remove and discard the section. Caution: The use of a knife could result in serious injury.



3. After your cover has been cut, slide it onto the rail as shown.



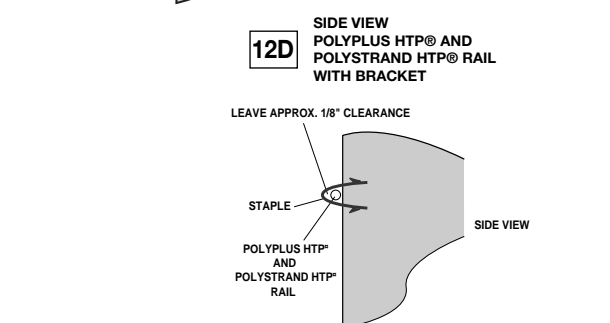
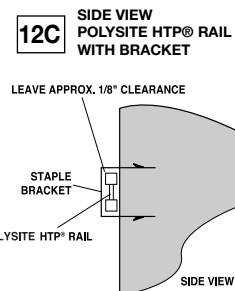
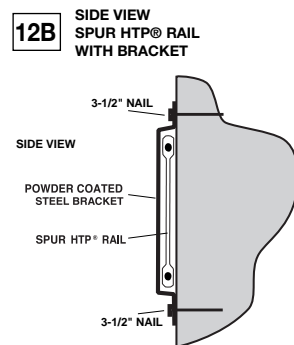
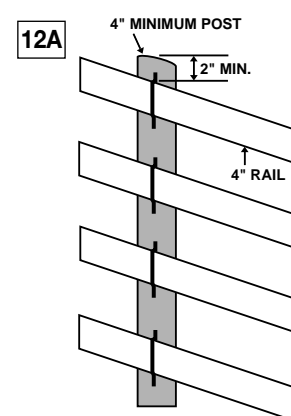
4. Tie your wire onto the tensioners and tighten as described in your installation tips. After rail(s) are tightened, slide cover up and over the tensioners. Secure with the two stainless steel screws as shown.



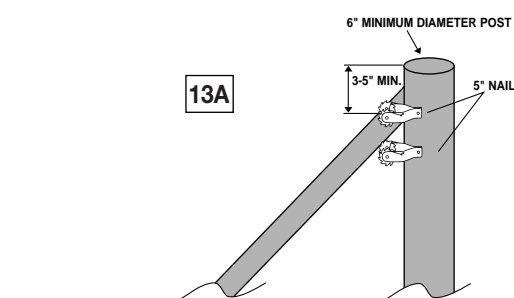
Note: You may have to trim more off the cover where it meets your post for a more uniform fit.

BRACKET AND STAPLE INSTALLATION

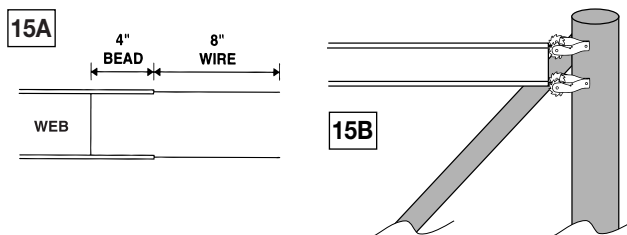
The Spur HTP® rail bracket is designed to leave a clearance gap between the rail and the post. This will enable the fence to be tensioned and also permit rails to move through the bracket when impact occurs. When using staple brackets for Polyplus HTP®, Polysite HTP® and Polystrand HTP® rails, do not drive in tight against coated rail. Leave approximately 1/8" clearance. See illustrations below for the particular rail you are installing.



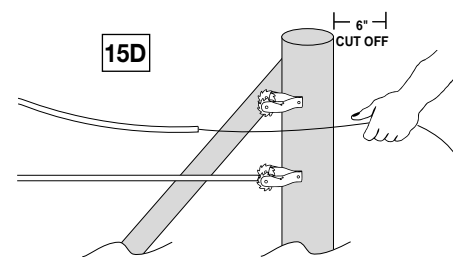
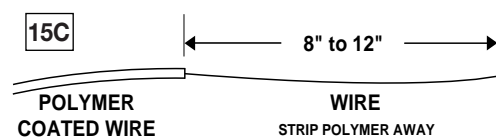
TENSIONER INSTALLATION



To tighten the Polysite HTP® and Spur HTP® rails, start on either end, remove approximately 8" of polymer from wire. Then remove web, leaving beads, approximately 4" (as shown in 15A). The exposed wire is then inserted into the tensioner. The 1" rail wires are to be fed into the same hole in tensioner. Wind the wire a few turns around the tensioner spool. After this is completed on all rails proceed on to the opposite end post and repeat operation. Rails should be tensioned from both ends until slack is removed. The 4" of coated bead should be wound up on the tensioner spool just prior to final tensioning of the rail. Do this on both ends. More web can be cut out of your fence if rail needs additional tightening.



After slack has been removed and the Polyplus HTP®, or Polystrand HTP® wire is cut, strip approximately 8" of polymer off the end. Insert into tensioner and remove all slack.



INSTALLING POLYCHARGE HTP® & WHITE LIGHTNING™

IMPORTANT: It is recommended to use Polycharge HTP® or White Lightning™ rail in all instances when fence line is common to livestock.

In addition to insulators on line posts, Polycharge HTP® and White Lightning™ fence rail on the outside corner posts should be threaded through an insulating tube as shown below.

