How to install the Bi-Polar Starter Kit #BP 500

"ZAP AT MAXIMUM STRENGTH, NO GROUND NEEDED!"

The starter kit contains:
1640ft of Bi Polar Tape #BP1640
100 Insulators #8BL
10 Tensioners # 9 to go on corner posts and gate posts.
32ft brown HT cable, 32 ft green HT cable, 1 pipe key,
40 long lagbolts, 200 wood screws. Scissors for tape, Bi-contactors.

#BP1640

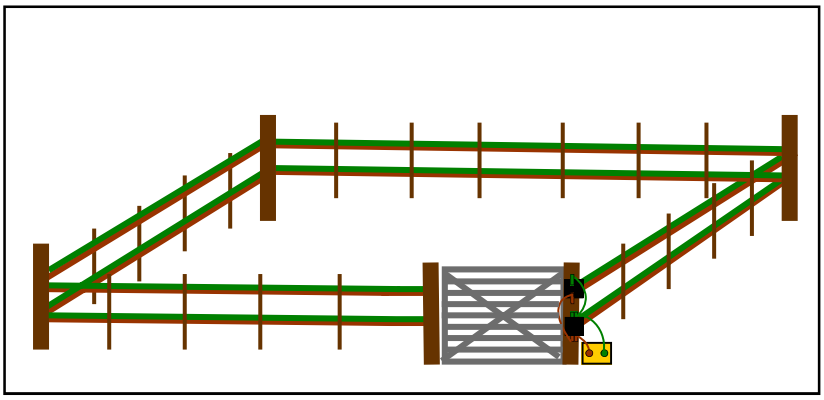
100 #8bl

10 tensioners #9

All the necessary items

The BP500 Starter Kit will allow you to set a basic 2 strand paddock around an 820 ft perimeter, for 50 posts, 4 corners, 1 gate (not included) .

An extra spool (#BP1640) can be ordered if you want to en-large the size of the starter kit .



The Bi-Polar Starter Kit can be added to your current fence and charger .

The kit has been calculated for 2 strands but HorseGuard Bi-Polar fence can be installed with 2, 3 or 4 and more strands ...

Gate possibilities

The important point for a bi-polar fence is to avoid the risk of crossing the polarities !

The gate can be wood or metal. It can be a tape gate but with Horseguard insulated gate handles.
The rule is: 1 gate per paddock = no routing needed.
2 or 3 gates = routing under each gate!
2 gates or more, the **brown cable** and the **green cable** will have to be routed under the gate in a buried pipe or a flexible hose and reconnected to the tensionner #9, always keeping in mind **Green Up - Brown Down.**

To install the Bi-Polar Starter Kit (2 strands)

A Installing and leveling

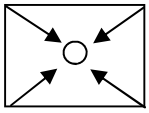
1. Drive the corner posts, gate posts and end posts
2. Make a straight line 10 inches above ground by stretching a string between each end post.
3. Along the same string drive the intermediate posts every 16 ft maximum.
4. Bring the same string at 28 inches and draw a mark on every line post and corner posts.
5. Proceed the same way at 52 inches and draw another mark on every line post and corner posts. (at 52" -36"-20" for 3 strands)

... you will need with you :
vise grip, hammer, tape measure, cordless drill, long string and all the items included in the kit
32 ft High Tension cable green
32 ft High Tension cable brown
40 long lagbolts, pipe key,
200 wood screws,* scissors *#cut1
and 3 Bi -Polar contactors

B Along the fence line: Setting insulators and tensioners

6. **On Fence line posts :** Secure all insulators #8 with wood screws on wood post (use a cordless drill) but do not insert the thumbscrew yet.

7. **On Gate posts and corner posts :**
Make sure the #9 tensioners face the middle point of your paddock**.**



8. **Position each tensioners #9 on corner posts and gate posts** on the marks and using a cordless drill or a pipe key set only the 2 bottom lagbolts to hold the tensioners in place leaving opened the top of the tensioner so the tape (which you must not cut until you reach the last gate post) can be inserted into.

..so the tape can be inserted into.

C Setting the tape

9. **Set the beginning of the tape for the first strand** into the first #9 gate tensioner and squeeze it in definitively by tightening the long lag bolts with the provided pipe key or a cordless drill .

12 **With the help of a broomstick** unroll your tape along the fence line posts untill you reach the next corne



13. **On Corners :** . After having inserted the tape you can set the two top lagbolts without tightening them because you will need to pull hard on the tape to create the tension when you get to the last gate post**.**
Proceed the same way at each corner post.



14. **At the last gate post** : Pull the tape as hard as you can until you have built sufficient tension and tighten the long lag bolts with the pipe key or the drill into the post until the tape is definitively locked in.
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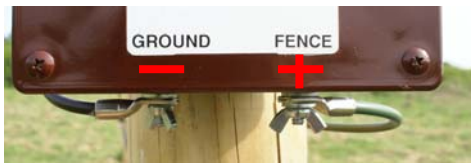
Cut the tape with the scissors at the post if you are installing a metal gate, do not cut it if you install a tape gate with an insulated gate handle.

15. **Go back at the beginning** of the fence line and at each post put the tape into each line insulator #8 and secure the cap with the 2 violin screws (every 25 insulators, you have one violin screw extra leave it secured to the insulator).You might need it one day if you drop a violin screw in the grass...



16. **Repeat the same procedure** for the second strand or every time you want to add another strand .

D **Fence connections: Green HTcable to (+)of the charger & Brown HTcable to (-)of the charger**



17. Electrifying the bi-polar fence is easy because no grounding and burying a cable is needed, the direct connections between the tape and the fence charger are made possible through stainless steel contactors that have been adapted to the 8 Black insulators.

The avantage is that you may set the electrical connections on whatever post you decide will be the best location for your charger, or even at 100 feet away...

The green High tension cable is set into the contactor on top of the insulator

The Brown High tension cable is set into the contactor at the bottom of the insulator

Now you don't have to worry about dry soil or icy soil or snow covered ground as even a « weak » solar fence charger will still provide all year around a strong « zap » at the end of the fence…

This is the magic of the new Bi– Polar tape!

Make sure that **no** metal parts (handle or wire) short out the tape. No connection between **brown & green**…never! Or your fence won't work if it's shorted out only your horse should do this and believe me he won't do it again !!.