Low cost, reliable permanent fencing.
For livestock, predators and wildlife.
Requires very little maintenance.
Lasts a generation or more.
# INSTALLATION

High tensile fence is not hard to install once you have become familiar with the system. Study this instruction booklet. If possible, visit someone who has this style of fencing.

Start by making a rough sketch of the area to be fenced. The sketch need not be to scale, but write in the dimensions. Include all details such as 90° corners, sweeping bends, swing corners, and where gates are needed.

Refer to the fence designs in this booklet, and select the one most suited to your needs. See: FENCE DESIGNS. Prepare a material list. (Tool list provided)

Begin the installation by installing all of the ANCHOR posts. These are the main posts at the ends, corners and wherever changes of direction occur. Attach the bottom wire to these posts at the specified height using insulators or staples according to the design chosen. If staples are used, wire should be able to move freely in staples. Install strainers and springs and tighten to 250 lbs., or until springs measure approximately 7½". Refer to GENERAL CONSTRUCTION DETAILS: Spring and Strainers.

The bottom wire will now serve as a guide wire or chalk line to aid in placing the rest of the fence posts. Install the balance of the brace posts, brace rails, and line posts.

We recommend line post spacing of 100 ft. with battens every 25 ft. This combination will provide a strong, economical, permanent fence that is easy to install. Line posts may be spaced closer or further apart according to the terrain and personal preference. Battens may be eliminated with post spacing less than 40 ft. apart.

Line posts may be pressure treated wood, large fiberglass T or fiberglass round posts.

The corner and end braces are the most important elements of the system, so particular attention must be paid to their construction and installation. Refer to: END AND CORNER BRACES.

It is necessary that the fence wires follow the contour of the ground. If the bottom wire is 6 inches from the ground, it should be roughly 6 inches above the ground uphill and down - thru dips and rises. To accomplish this, additional posts may have to be installed. Refer to: DIPS and RISES. Install posts accordingly, and attach bottom wire to posts at the specified height.

Once the bottom wire is in place in all posts, attach the balance of the insulators to the posts by measuring up from the bottom wire. Install all of the remaining wires, insulated and non-insulated. Insert strainers and springs in each wire, just as in the bottom wire, and tighten to 250 lbs. tension.

To maintain wire spacing, install battens every 25 feet. Battens are needed to maintain fence wire spacing when line posts are more than 40 feet apart. Install battens above ground, approximately every 25 feet between line posts. Use a wire-bending tool to install the proper wire clips to the battens. Clips should be attached so as to allow lateral movement of the wires.

If electrified, use only a high-powered, low-impedance-style energizer. Install the energizer following the fence design and the manufacturer's instructions. Use of weed burning style fence not recommended.

# GENERAL CONSTRUCTION DETAILS

## LINE POSTS
Wood, pressure-treated. 3" to 4" dia. x 8' for fences up to 54'. For taller fences, use longer posts. Staple wire loosely to allow lateral movement of wire. Do not use railroad ties for fence posts.

Fiberglass, Heavy Duty T-Posts, 1" - 1¼" Face x 7'. If fiberglass line posts are used, every third post should be wood. Fiberglass is not recommended for non-electrified fences. Clip wires loosely to allow lateral movement of wire.

Steel T-Posts may be used for line posts. Maximum spacing should be 100 ft. for electrified and 20 ft. for non-electrified. Posts should be driven 2 ft. into the ground. It is desirable to use a wood post for every third line post. Battens should be used between posts when spacing exceeds 20 ft.

## BATTENS
Dure 2400 Poly Battens, pressure-treated wood battens, or small fiberglass (5/8") electric fence posts may be used. Attach wires loosely to allow lateral movement of fence wires.

## AUGER AND HAND DUG POST HOLES
Use a shovel or tamp bar to carefully tamp the soil around post. Tamp only a few inches of dirt at a time, packing tightly. When completed the post should not move.

Attach lug to the bottom of Anchor and Dip posts.

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STRAINERS AND SPRINGS
Install in the middle of 1500 ft. spans. Pull wire thru not more than two 90° corners, one in each direction. Take into account all friction points such as dips, rises an changes of direction, and reduce footage accordingly.

We recommend the use of tension measuring springs on all wires wherever strainers are installed. The springs will absorb damaging blows and help maintain the tension of the fence through heat and cold. The springs can also be used during installation to gauge the amount of tension being applied to the wires and thus prevent dangerous over tightening.

Tighten wires to proper tension. Install 1703/1713 strainer/spring combinations as noted above. Use #1701 handle to tighten strainers until springs measure 7½" (250#) on non-electrified fences and 8¼" (150#) on electrified fences. The handle can be used to measure the springs - end of handle to rivet = 7½". Do not overtighten fence. Wear safety glasses, leather palm gloves and proper clothing when installing fence equipment.

LINE POST INSULATORS
Choose from four types of wood post insulators. The 2249 Pinlock nail-on, SNUG-HTN nail-on, 1710 Stap Insulator, and the 1718/1724 Tube Insulator. The 2249 Pinlock is error-proof and trouble-free.

For steel T-posts use only the 2550 T-Post Pinlock Insulator.

CORNER AND END POST INSULATORS
The 1779 Wrap Around is best suited to apply electric fence wire to the outside of a corner and/or wrap a wire around an end post. The standard 1779 is 20 in. long and will fit posts 6 in. dia. and smaller. Longer wrap arounds are available by special request.

When electrifying the inside of a corner, use the 451 assembly. To install, drill a 5/16" hole 4 ½" deep into post. Insert bracket to first bend.

WIRE DEREELEER/SPINNING JENNY
High tensile wire is stiff, springy and coiled under tension. To uncoil, use a wire dereeler, wear gloves, safety glasses and use caution. Do not cut the coil tie wires until the coil is in place on the dereeler, the dereeler arms are bolted in place and the lead end of the wire is secured to something. Again, the wire is springy.

SPLICES
Use three splicing sleeves to splice two wires together. Only two splicing sleeves are required on end loops.

ENERGY LIMITER
Limits current to wires that may easily become shorted. Wires over a stream or close to ground. Prevents shorted wires from draining current from fence.

GROUNDING ENERGIZER
Use three galvanized ground rods and ground clamps. Drive into ground a minimum of 6 feet, spaced 10 ft. apart. Additional ground rods may be required in dry soil. Install 40 ft. or more from utility ground.

FENCE GROUNDING
If lightning is a concern, ground all non-electrified fence wires with one ground rod every 3,000 ft. for moist soil and every 1,500 ft. for dry soil.

SAFETY PRECAUTIONS
Wear safety glasses, leather palm gloves and proper clothing when installing fence equipment.

Install warning signs (#1614) not less than every 300 feet. Check local code.

Inform children of the electrified wires. Advise responsible people of the location of the cut-off switches and energizer.

Use a #1360 tester or #2411 meter to check presence of electrical current on fence line.

Follow the energizer manufacturer's instruction concerning use and grounding of the unit.

FENCE VISIBILITY
Before turning animals into a newly fenced area, flag the fence to improve visibility. Flag the top wire with rags or brightly colored surveyors tape at intervals of 50 to 75 ft. - at least one rag between every two posts. Or, attach electric poly tape just above and parallel to the top wire. The poly tape may or may not be electrified.

Horses should be led around a newly fenced and flagged field in order to familiarize them with the new fence.

DISCLAIMER
This booklet is only a guide for the installation of high tensile fence. The user shall determine the suitability of these instructions for his or her intended use and shall assume all risk and liability in connection therewith.
Single End Brace
For fences with up to 6 strands.

Horizontal Brace 4" x 8"
1 1/2" x 2" x 24" pressure treated hardwood twitch stick.
12 1/2 ga. high tensile wire double wrapped.
Approximately 90' of wire required.

Optional. #1703 used to tighten brace wire. Wrap wire twice around posts. Use two splicing sleeves.

Use pressure treated wood for posts, twitch stick and lug.
For maximum strength single braces use 10 ft. horizontal.

Double End Brace
For fences with more than 6 strands.

Lug 2" x 4" x 8"
treated wood attached with 3/8" x 4" lag bolt.

END AND CORNER
There are four basic end braces: Single end brace, double end brace, single 90° corner brace and the double 90° corner brace. All are variations of the single end brace.
The corner and end braces are the most important elements of the high tensile fence system. Particular attention must be paid to their construction and installation.
For hand-set posts, the anchor post must have a lug at the bottom on the side opposite the direction of pull. Use a piece of 2" x 4" x 8" treated wood and attach to post with a 3/8" x 4" lag bolt. (Lug cannot be used on driven posts)
It is desirable to have the anchor post and some of the brace posts lean away from the direction of pull. Consult diagrams. This is done with a plumb bob prior to tamping the
Single Corner Brace
90° corner. For fences with up to 6 strands.

BRACES

- Pack the dirt solidly around each hand-set post. Use a shovel or tamper bar and pack only a few inches of dirt at a time. Pack the dirt until post cannot be moved.
- The horizontal brace must be a minimum of 8' long. Locate somewhere between 36" and 42" to the center from the ground. Preferably between top two wires, but within these dimensions.
- Brace wire, made of 12½ gauge high tensile wire, is wrapped twice around the posts, pulled tight and then spliced with three DARE sleeves. A pressure-treated wood twitch stick is inserted to draw the brace wire tight. Do not over-tighten. 5 or 6 turns should be adequate. Nail or fasten the stick to the horizontal brace.

Double Corner Brace
For fences with more than 6 strands.
**Steel Gate**

**Electrified Gate**

**Expando Gates Slinky Style**

**Spring and Strainer Assembly**
1. Pull one wire form thru spring.
2. Thread strainer onto wire form.
3. Squeeze ends of wire form together and insert into spring.

**Lightning Protection**

Lightning diverter ground system must be better than fence controller ground system.
Change of Direction, Sweep Corner and Swing Corner

**Swing Corner**
Corners greater than 90°

- Dimensions X & Y should be the same.
- Swing corner must be protected with hot wire(s) if used inside a pasture.

**Sweep Corner**

- 5" x 8' Post
- 2° lean

To attach electrified wires, use #2249 Pinlock or SNUG-HTN Insulators on the outside or #451 assemblies on the inside.

**Change of Direction**

5" x 8' Post

20° Maximum. For greater curves refer to sweep corner.

**Ditch or Stream**

- #1779 Wrap-Around Corner Insulator
- # DPT 3-4 Tap
- # DPT 3-4 Tap
- #2209 Energy Limiter

Bottom wire connected to #2209 Energy Limiter

* #2209 limits current to bottom wire. Prevents shorted wire from draining current from upper wires. Energy Limiter should be used whenever bottom wire is 6 inches or less from soil. See page 8, Hog, Sheep, Goat and Predator Control Fence.
Fence & Shocker Grounding

Three galvanized rods and clamps spaced 10 ft. apart and driven 8 ft. into soil. Additional rods may be needed in dry soil. Ground rods must be at least 40 ft. from nearest utility ground.

Safety Switches

Change polarity of selected wires

To obtain the most effective electric fence according to climatic conditions. When the ground is moist all of the wires should be energized for maximum effectiveness. During a dry spell or if the ground is frozen it is best to ground every other wire. System does not shut off entire fence.

#2199 Switch, double pole.
Handle up: All wires "ON" (hot).
Handle down: One-half of the wires "ON" (Hot) and one-half of the wires "OFF" and grounded.

Safety Switches

Disconnect and ground entire fence

Schematic illustrates how to change hot wires to ground and shut off entire fence.

#2199 Switch, double pole. Handle up: Fence wire "ON" (hot). Handle down: Fence wire "OFF" (grounded) and entire fence grounded.
Major Dips and Rises

To reduce friction when tightening wire, use rolling insulator assemblies for electric and non-electric wires.

#1752 Insulator and 3/8" x 4" lag bolt.

LUG, 2" x 4" x 8" treated wood and 3/8" x 4" lag bolt.

Minor Dip

Pull batten down and fasten to anchor wire.

#2208 Duckbill Anchor

Set anchor 2 1/2 feet.
FENCE DESIGNS
Suggested Spacing and Post Lengths

Hog, Sheep, Goat and Predator Control Fence.
6 Wire Electrified

12' + HOT
10' - GROUND
8' + HOT
6' + HOT
48' - GROUND

25' 100'

Line posts on 100' centers.
Battens every 25' - 3 between line posts.
Single corner and end braces.

* Bottom wire electrified with Energy Limiter #2209.

Adult Horse Fence
3 Wire Electrified

14' + HOT
14' - GROUND
26' 54'

25' 100'

Line posts on 100' centers.
Battens every 25' - 3 between line posts.
Single corner and end braces.

Horses with Foals
4 Wire Electrified

14' + HOT
12' - GROUND
14' + HOT
16' 56'

25' 100'

Line posts on 100' centers.
Battens every 25' - 3 between line posts.
Single corner and end braces.

Beef and Dairy Cow Fence
4 Wire Electrified

12' + HOT
10' - GROUND
8' + HOT
6' + HOT

48' 100'

Line posts on 100' centers.
Battens every 25' - 3 between line posts.
Single corner and end braces.

Horse and Cattle Fence
8 wire non-electrified/electrified.

6' + HOT
6' 6' 6'

45' 40'

Line posts on 40' centers.
Battens every 13' - 2 between line posts.
Fiber glass line posts not recommended.

Install three wires with insulators. Energizer may be desirable for periodic use in training. Electrify continuously when confining horses. See page 1, Fence Visibility.

Alpaca/Llama and Deer Control Fence
7 Wire Electrified

10' + HOT
8' - GROUND
8' + HOT
8' 56'
8' + HOT
8' + HOT

20' 100'

Line posts on 100' centers.
Battens every 20' - 4 between line posts.
10' x 10' single corner and end braces.
Anchor posts, horizontals and brace posts must be 10' long.

Eight Wire Deer Control Fence
Follow the above design with these changes:
Place line posts 72' above the ground instead of 58'. Add an 8th wire 12' above the top wire shown in drawing. 8th wire may be a physical barrier, neither hot nor ground.

* Limits current to bottom wire. Prevents shorted wire from draining current from upper wires.

** All wires may be electrified.
See: SAFETY SWITCHES, page 6

† See Page 1, Fence Visibility
**FENCE DESIGNS†**
Suggested Spacing and Post Lengths

**Feed Lot**
6 Wire Electrified**

- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**

48" 10'
48" 20'

Line posts on 20' centers.
Battens every 10' - 1 between posts.
10' × 10' single corner and end braces.
Anchor posts, horizontals and brace posts must be 10' long.

**American Buffalo/Bison and Beefalo**
8 Wire Electrified

- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**
- + HOT
- **GROUND**

54' 6'
54' 20'

Line posts on 10' centers.
No battens between posts.
Double corner and end braces required.
Fiber glass line posts not recommended.
Anchor posts 6' × 9' - 10', 54' above ground.
Use #1718/#1724 Tube line post insulators and #451 corners.

**FENCE MATERIALS**

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<tr>
<th>ARTICLE NUMBER</th>
<th>DESCRIPTION</th>
<th>PACKAGE</th>
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<tbody>
<tr>
<td>1713</td>
<td>TENSION MEASURING SPRING Hot Dip Zinc. Exceeds Class III.</td>
<td>20 / ctn.</td>
</tr>
<tr>
<td>1703</td>
<td>WIRE STRAINER Spring wire Rapper Hot dip zinc frame. All parts exceed class III.</td>
<td>20 / ctn.</td>
</tr>
<tr>
<td>1701</td>
<td>STRAINER CRANK (Handle)</td>
<td>Ea.</td>
</tr>
<tr>
<td>1718</td>
<td>4' TUBE INSULATOR FOR WOOD POSTS Without staple</td>
<td>200 / bag</td>
</tr>
<tr>
<td>1724</td>
<td>4' TUBE INSULATOR FOR WOOD POSTS With galvanized staple</td>
<td>200 / box</td>
</tr>
<tr>
<td>1710</td>
<td>FERMATEMP STAPLE INSULATOR FOR WOOD POSTS Staple included</td>
<td>50 / bag</td>
</tr>
<tr>
<td>2249</td>
<td>PINLOCK INSULATOR for wood posts Complete with 2 galv. ring shank nails</td>
<td>25 / bag</td>
</tr>
<tr>
<td>2250</td>
<td>3-POST PINLOCK INSULATOR For 1.25 &amp; 1.33/t posts.</td>
<td>25 / bag</td>
</tr>
<tr>
<td>1779</td>
<td>TUBULAR CORNER &amp; END POST INSULATOR - 20 in. Longer lengths available on request.</td>
<td>10 / box</td>
</tr>
<tr>
<td>1714</td>
<td>10' BRACE PIN</td>
<td>5 / bag</td>
</tr>
<tr>
<td>1715</td>
<td>5' BRACE PIN</td>
<td>5 / bag</td>
</tr>
<tr>
<td>2454</td>
<td>CHAIN GRAB PULLER Use to stretch and splice wire.</td>
<td>1 / ctn.</td>
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<tr>
<th>ARTICLE NUMBER</th>
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<th>PACKAGE QUANTITY</th>
<th>QUANTITY NEEDED</th>
<th>EST. COST</th>
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<tbody>
<tr>
<td>1699</td>
<td>BATTEN &amp; POST CLIP. Fits all up to 2&quot; x 2&quot; reproduces #1699 &amp; #1700</td>
<td>100 / bag</td>
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<tr>
<td>1708</td>
<td>CLIP FOR FIBERGLASS T-POSTS. Fits 1 1/2&quot; face size post.</td>
<td>100 / bag</td>
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<tr>
<td>2577</td>
<td>SPINNING JENNY Pro Model. Adjustable brake, welded rim &amp; angle iron base.</td>
<td>Ea.</td>
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<tr>
<td>2420</td>
<td>WIRE SPINNING JENNY/DEREELER With brake. Knock down style.</td>
<td>1 ctn.</td>
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<tr>
<td>2853</td>
<td>SPINNING JENNY FOR CANADIAN 4,000 ft. spools - (Davis &amp; Tree Island) Adjustable brake.</td>
<td>Ea.</td>
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<tr>
<td>2301</td>
<td>5/8&quot; X 6 STEEL GROUND ROD Hot dipped zinc.</td>
<td>10 / bndl.</td>
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<tr>
<td>2303</td>
<td>GROUND CLAMP Die cast. For 3/8&quot; - 1 1/2&quot; dia.</td>
<td>5 / ctn.</td>
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<tr>
<td>2304</td>
<td>5/8&quot; X 6 STEEL GROUND ROD Hot dipped zinc.</td>
<td>10 / bndl.</td>
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<tr>
<td>2305</td>
<td>5/8&quot; X 8 STEEL GROUND ROD With ground clamp.</td>
<td>10 / bndl.</td>
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<tr>
<td>2457</td>
<td>5/8&quot; X 8 COPPER CLAD GROUND ROD.</td>
<td>10 / bndl.</td>
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<tr>
<td>1719</td>
<td>INSULATOR TUBING x 39 ft.</td>
<td>Ea.</td>
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<tr>
<td>2453</td>
<td>INSULATOR TUBING x 50 ft.</td>
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<tr>
<td>1360</td>
<td>FIVE-O-LITE TESTER Individually carded.</td>
<td>Ea.</td>
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<tr>
<td>2411</td>
<td>DIGITAL VOLT METER 0 to 9,999 volts.</td>
<td>1 / ctn.</td>
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<tr>
<td>1247</td>
<td>RUB/BRATE Electric Fence Gate Handle.</td>
<td>Ea.</td>
<td></td>
<td></td>
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<tr>
<td>1614</td>
<td>WARNING SIGN Dual Purpose</td>
<td>10 / bag</td>
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<td></td>
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<tr>
<td>2208</td>
<td>DUCKBILL ANCHOR With cable.</td>
<td>Ea.</td>
<td></td>
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<tr>
<td>2209</td>
<td>ENERGY LIMITER</td>
<td>Ea.</td>
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<tr>
<td>2210</td>
<td>HIGH STRAIN DOUBLE U INSULATOR</td>
<td>10 / bag</td>
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<td>2211</td>
<td>CUT-OFF SWITCH Single Throw</td>
<td>Ea.</td>
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<tr>
<td>2199</td>
<td>CUT-OFF SWITCH Double Throw</td>
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<tr>
<td>1752</td>
<td>HIGH STRAIN ROUND INSULATOR</td>
<td>10 / bag</td>
<td></td>
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<tr>
<td>451</td>
<td>HIGH STRAIN INSULATOR ASSM</td>
<td>10 / box</td>
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<tr>
<td>2408</td>
<td>16 GA. X 50 UNDERGROUND &amp; HOOK-UP WIRE</td>
<td>1 / ctn.</td>
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<tr>
<td>2212</td>
<td>16 GA. X 165 UNDERGROUND &amp; HOOK-UP WIRE (AVAILABLE IN 250 &amp; 500 FT.)</td>
<td>Ea.</td>
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<tr>
<td>2277</td>
<td>12 GA. X 165 UNDERGROUND &amp; HOOK-UP WIRE (AVAILABLE IN 250 &amp; 500 FT.)</td>
<td>Ea.</td>
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<tr>
<td>1692 (2&quot;)</td>
<td>2415 (1&quot;)</td>
<td>50 / bag or 100 / box</td>
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<tr>
<td>2221</td>
<td>FENCE LIGHT Attach permanently to fence. Highly visible.</td>
<td>1 / ctn</td>
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<tbody>
<tr>
<td>2454</td>
<td>LIGHTNING CHOKER Helps to divert damaging lightning.</td>
<td>1 / ctn</td>
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<tr>
<td>2490</td>
<td>POLY BATTON 1½&quot; x 1½&quot; X 49' Notched every inch. Black.</td>
<td>25 / bndl.</td>
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<tr>
<td>2648</td>
<td>CLIP FOR DARE POLY BATTON Type III galvanized wire.</td>
<td>100 / bag</td>
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<tr>
<td>2561 (R-7)</td>
<td>FIBERGLASS BATTON 5/8&quot; x 49'</td>
<td>20 / bndl.</td>
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<tr>
<td>2562 (R-9)</td>
<td>FIBERGLASS BATTON 5/8&quot; x 60'</td>
<td>20 / bndl.</td>
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<tr>
<td>2761 (R-10)</td>
<td>FIBERGLASS BATTON 5/8&quot; x 72'</td>
<td>20 / bndl.</td>
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</tr>
<tr>
<td>1709</td>
<td>CLIP FOR FIBERGLASS BATTONS. Fits 5/8&quot; face battens R-7, 9 &amp; 10. 13 ga. type III galv. wire.</td>
<td>100 / bag</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP 2-3</td>
<td>SPLICING SLEEVES 12½ GA Smooth wire.</td>
<td>100 / box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP 3-4</td>
<td>SPLICING SLEEVES 10-11 GA Smooth &amp; 14 GA &amp; 15½ GA Barbed.</td>
<td>100 / box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DP 4-5</td>
<td>SPLICING SLEEVES 9 GA Smooth &amp; 12½ GA &amp; 13½ GA Barbed.</td>
<td>100 / box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT 3-4</td>
<td>FENCE TAPS 12½-14½&quot; fence to 12-16 tap wire.</td>
<td>100 / box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT 4-5</td>
<td>FENCE TAPS 12½-15½&quot; fence to 8-12 tap wire.</td>
<td>100 / box</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2154 Imp. 64-245-US</td>
<td>CRIMPING TOOL</td>
<td>Multi-groove hand tool to press sleeves &amp; taps above.</td>
<td>Ea.</td>
<td></td>
</tr>
<tr>
<td>2290</td>
<td>WIRE CUTTER for High Tensile.</td>
<td>5 / cm.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2083</td>
<td>LINE CLAMP / TAP</td>
<td>10 / pkg.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2081 (5057-V)</td>
<td>WIRELINK In-line Wire Splice for 12½ GA. Wire size 062/100</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2080 (5096-V)</td>
<td>WIVRETER End post wire fastener. For 12½ GA. Wire size 062/100</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1707</td>
<td>WIRE TWISTING TOOL.</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2327</td>
<td>White polyethylene electric fence wire. ½&quot; wide x 660' (200 meters)</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2400</td>
<td>POLY POST PLASTIC FENCE POST. Use to divide pastures - perfect for controlled grazing, 45°</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA-112</td>
<td>LIGHTNING ARRESTER. Protects controller from lightning on the fence line.</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2219</td>
<td>110-V SURGE PROTECTOR. Protects controller from voltage spikes and surges.</td>
<td>Ea.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Wirevise and Wirelink are registered trademarks of Reliable Electric Co.
SINGLE CORNER BRACE ASSEMBLY

#1779 Wrap around insulator for ends and outside corners

48"

#451 for inside corners and ends.

48"

Treated Wood Battens & Batten Clips #1699

#1713 Tension Springs & #1703 Strainers

#2420 Spinning Jenny - K.D.
#2577 Spinning Jenny - Welded

#1752 High Strain Insulator

#1701 Strainer Handle*

#2154 Crimping Tool

#2290 Wire Cutter, High Tensile

#1614 Warning Sign

Dare - Splicing Sleeve
#DP 2-3 Sleeves

TOOLS

Plumb Bob
25' Steel Measuring Tape
Claw Hammer
Shovel
Post Hole Digger
Crimping Tool #64-2345 or #2154 - DARE*
Wire Cutting Pliers
Tamping Bar (Shale Bar)
Hand Drill or Brace
Drill Bits - 3/8" x 8" and 5/16" x 5"

Fibreglass Post Driver (if FG posts are used)
Wire Bending Tool #1707 - DARE*
Marking Crayon - Yellow
Spinning Jenny #1717 - DARE*
Strainer Handle #1701 - DARE*
Hand or Chain saw
Leather Gloves
Safety Glasses
Duckbill driving bar #2217 - DARE*

*See: FENCE MATERIALS

WOOD POST INSULATORS

SNUG-HTN #1710

#2249 Pinlock Insulator

* Use handle to measure tension spring. End of handle to second rivet equals 200/250 lbs.
SINGLE END BRACE ASSEMBLY

FENCE MATERIALS NOT AVAILABLE FROM DARE

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity Needed</th>
<th>Est. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; diameter x 10' Wood Posts, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6&quot; diameter x 8' Wood Posts, pressure treated</td>
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<td></td>
</tr>
<tr>
<td>5&quot; diameter x 8' Wood Posts, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4&quot; diameter x 8' Wood Posts, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 - 3½&quot; dia. x 8' Wood Posts, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1½&quot;-2&quot; x 24&quot; Twitch sticks, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1½&quot; x 1&quot; Wood Battens, pressure treated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8&quot; face x 48'/60' Fiber Glass T Post Battens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1&quot; - 1½&quot; x 7' Fiber Glass T Posts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Voltage, Low Impedance Energizer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/8&quot; x 4&quot; Lag Bolts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1/2&quot; diameter polyethylene pipe</td>
<td></td>
<td></td>
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</tbody>
</table>