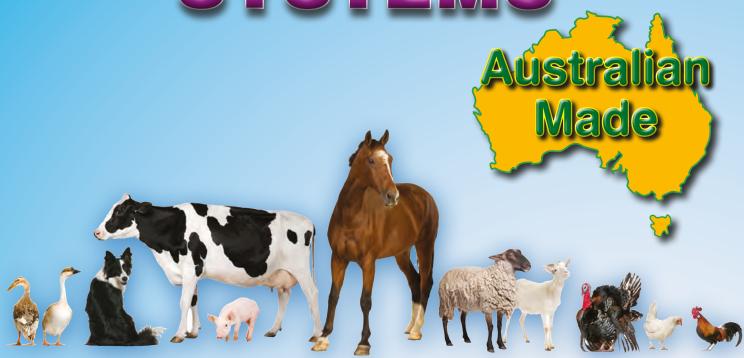


LIVESTOCK MANAGEMENT SYSTEMS



PRODUCT CATALOGUE - EDITION 9

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Fencing Design

Fence Diagram

Earthing & Installation

Temporary Fences & **Upgrading Existing Fences**

Fence Operations And Testing



Quality Australian Made Electric Fencing Products



Company Background

Thunderbird Ag is an Australian manufacturer of animal management and livestock weighing systems in the rural market, servicing Australian farmers with high quality products to suit harsh Australian conditions.

Thunderbird is Australia's most progressive agricultural weighing and electric fence company in both market growth and product development. This is due to the in house tooling and manufacturing teams working alongside the team of electronic design engineers.

This formula delivers the best level of compatibility for all product components with consistent quality at the most affordable price.

As an Australian manufacturer, we understand the harsh environmental conditions which our products are subjected to. We have gained the knowledge to develop products that perform at a highly reliable standard even under these testing conditions.

Our company, is totally committed to research and development. This ensures continued product development and improvement in performance, enabling us to remain a leader within the industry.

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Small & Medium Mains & Battery Fence Energisers



MB-67 Powers up to 7.5 km MB-135 Powers up to 15 km

- Designed to operate from mains or battery power
- LCD displays output voltage up to 10kV
- Tough, O-ring sealed enclosure
- SMD technology for maximum reliability
- Mains A.C. adaptor and 12 volt battery lead supplied
- Quality components 2 years warranty
- Lightning spark gap 6 months lightning warranty
- Vacuum sealed transformer for longer life
- Low battery warning & pulse timing displayed
- Optional solar kit available

| Model | Stored Joules | Maximum Distance | Voltage @ No Load | Voltage @ 500 ohms | Current Drain | Solar Kit Size 12V |
|--------|------------------|---------------------|----------------------|-----------------------|------------------|-----------------------|
| MB-67 | 0.75 Joules | 7.5km | 8.6kV | 4.6kV | 65mA | 5-8 watt |
| MB-135 | 1.5 Joules | 15km | 8.4kV | 5.2kV | 120mA | 12 watt |

MB-255 Powers up to 25km MB-355 Powers up to 35km

- Digital LCD displays output voltage up to 10 kV
- Mains or Battery powered,
 (A.C. Adaptor and D.C lead supplied)
- Optional solar kit is available
- Vacuum Sealed transformer, for better reliability and longer life
- SMD electronics to provide the most reliable controls
- Quality Australian made product, with 2 years warranty
- Lightning spark gap fitted 6 months warranty against lightning strikes
- Tough, weatherproof O-ring sealed enclosure
- Low battery voltage and output pulse indicated on LCD display







| Model | Stored Joules | Maximum Distance | Voltage @ No Load | Voltage @ 500 ohms | Current Drain | Solar Kit Size 12V |
|--------|------------------|---------------------|----------------------|-----------------------|------------------|-----------------------|
| MB-255 | 2.3 Joules | 25km | 7.9kV | 5.1kV | 160mA | 25 watt |
| MB-355 | 3.4 Joules | 35km | 7.9kV | 5.5kV | 210mA | 25 watt |

Large Mains & Battery Fence Energisers



- Digital display of output voltage, earth condition, joules and amps - condition of fence - all displayed together, no toggling required.
- Mains or battery powered -12 volt lead and A.C adaptor supplied (optional solar kit)
- Remote ready turns unit on or off, from the paddock
- Auto power boost automatically increases energy levels as fence requires
- 3 powers levels to select from, low medium - high. Up to 9.9 kV
- Earth monitor displays the condition of your earth system
- 13 pulse speeds to select from 1.2 to 2.4 seconds

Remote ready

Remote control (optional) ERC-2 Turns energiser on or off from the fence line. **Digital function display**

- Output voltage
- Earth condition poor-fair-good
- · Amps condition of fence
- · Joules energy being used
- Mode standby, diagnostic data

MB-560R Powers up to 50 km MB-1060R Powers up to 85 km MB-1760R Powers up to 135 km MB-2750R Powers up to 200 km MB-5600R Powers up to 350 km

- Built in alarm activates internal buzzer when fence voltage drops. Alarm voltage can be set from 2 to 6 kV— Optional strobe light or siren plus strobe light, activates upon energiser alarm.
- Tough enclosure o-ring sealed, weather proof ABS robust enclosure
- Great back up 2 years warranty,
 6 months lightning warranty
- Solar compatible optional solar kit can be connected, to power, for remote areas
- Quality components SMD electronics and transformer is vacuum sealed
- Auto battery save function when battery voltage level drops, system changes output level to low and pulse rate to maximum.

Additional features available with the MB-2750R and MB-5600R

- Fence Return Terminal displays end of line fence voltage
- Alarm History records displays time and date of previous alarms
- Maintains full battery charge for battery back up when mains power is down
- Extra large terminals, menu display, real time clock, ultra high power models

| Model | Model Stored Joules | | Voltage @ no Load | Voltage @ 250 ohms | Current Drain | Solar Kit Size 12V |
|----------|---------------------|-------|----------------------|-----------------------|------------------|-----------------------|
| MB-560R | 6.3 Joules | 50km | 8.1kV | 5.6kV | 205-380mA | 40 watt |
| MB-1060R | 10.5 Joules | 85km | 8.3kV | 6.4kV | 435-795mA | 80 watt |
| MB-1760R | 16.8 Joules | 135km | 8.2kV | 6.7kV | 450-1250mA | 120 watt |
| MB-2750R | 27.8 Joules | 200km | 8.8kV | 6.9kV @ 100 ohms | 0.6-4 A | 240 watt |
| MB-5600R | 55.3 Joules | 350km | 8.9kV | 7.9kV 100 ohms | 1.2- 6.6 A | 480 watt |

Small Mains Fence Energisers



M-30 Powers up to 2 km

M-65 Powers up to 7.5 km

M-125 Powers up to 15 km

- Safety certified to Australian /New Zealand standards
- OK pulse light flashes with each fence pulse
- Tough o-ring sealed weatherproof case
- SMD technology for ultimate reliability
- Lightning spark gap fitted -6 months lightning warranty
- Vacuum sealed transformer provides a longer life
- 2 years warranty made from quality components
- Large fence terminal knobs, with stainless steel nuts

| Model | Stored Energy | Maximum Distance | Voltage @ no load | Voltage @ 1000 ohms | Power Usage (watts) |
|-------|---------------|---------------------|----------------------|------------------------|---------------------|
| M-30 | 0.29 Joules | 2km | 8.0kV | 2.8kV | 2 |
| M-65 | 0.83 Joules | 7.5km | 7.8kV | 4.0kV | 3 |
| M-125 | 1.4 Joules | 15km | 7.9kV | 5.1kV | 4 |

Medium Mains Fence Energisers



M-260 Powers up to 25 km M-360 Powers up to 35 km

All the features of it's smaller brothers - but with more power.

Able to supply more energy for longer fences, and deliver higher voltages.

Safety is assured with the certification to the Australian / New Zealand standards.

| Model | Stored Energy | Maximum Distance | Voltage @ no load | Voltage @ 1000 ohms | Power Usage (watts) |
|-------|---------------|---------------------|----------------------|------------------------|---------------------|
| M-260 | 2.2 Joules | 25km | 8.7kV | 6.9kV | 5 |
| M-360 | 3.1 Joules | 35km | 8.2kV | 6.9kV | 7 |

Large Mains Energisers





Higher powered models for those long fence lines with harsher environment conditions

Remote ready

Remote control (optional)

Turns energiser on or off from the fence line.

Digital voltage display

Displays voltage level being delivered to the fence line.

M-650R Powers up to 60 km

M-1150R Powers up to 90 km

M-1680R Powers up to 130 km

Thunderbird's large mains energisers incorporate new low impedance technology to keep animals where you want them

- Digital output voltage display
- Remote control ready handpiece can switch the energiser on or off from anywhere along the fence
- High and low output terminals—both can be used at the same time
- Tough o-ring sealed enclosure, Australian made
- Power to control all types of livestock and feral animals
- Certified to the Australian / New Zealand standards
- RFI suppression circuitry for minimum electrical interference
- 2 Years warranty plus 6 months lightning warranty
- Quality components SMD electronics and transformer is vacuum sealed

| Model | Stored Energy | Maximum Distance | Voltage @ no load | Voltage @ 250 ohms | Power Usage (watts) |
|---------|---------------|---------------------|----------------------|-----------------------|---------------------|
| M-650R | 5.6 Joules | 60km | 8.2kV | 5.1kV | 23 |
| M-1150R | 10.9 Joules | 90km | 8.2kV | 5.9kV | 37 |
| M-1680R | 16.8 Joules | 130km | 7.8kV | 5.6kV | 46 |

Please note - energiser distances are a guide only. Factors such as proximity of live wire(s) to earth or to other parts of a fence, distance of live wire run underground, thickness of wire and earth condition will affect the effective distance. Thunderbird recommend a minimum distance of 200mm between the live wire(s) and any other conductor, otherwise effective energiser distance is reduced.

Small Solar Fence Energisers - With Internal Batteries



Self Contained Systems - includes battery

S-18B 1.5 km Solar System

S -28B 2.5 km Solar System

- · Ideal for small fencing applications
- Output leads are supplied. Fully portable
- Internal battery included, O-Ring sealed case, low and high power levels
- Slides over steel star post
- Mains battery charger is supplied, for poor weather periods
- Magnetic switch no holes through case

Medium Solar Fence Energisers - With Internal Batteries



Large easy to view LCD display, O-Ring sealed case,

Fully portable - internal battery included.
Light, easy and fast to set up. Fence leads and a mains recharger are supplied. Coated electronics, resin sealed transformer and SMD technology combine to form a high quality product.
Magnetic switch - no holes through case.

Self Contained Systems - includes battery

S-45B 5 km Solar System S-75B 10 km Solar System

- · Feature Packed, both models
- Designed to slide straight over a steel star post for mounting
- Convenient strong moulded carry handle for easy portability. Super fast to install, large easy to use fence knobs
- Ideal mould angle to maximise solar collection
- Low battery warning lets you know when to mains recharge
- Fence and earth leads supplied with insulated grips. Mains charger port is covered - keeps weather out Low and high power levels for battery conservation

| Model | Stored Energy | Maximum Distance | Voltage @ no load | Voltage @ 1000 ohms |
|-------|---------------|---------------------|----------------------|------------------------|
| S-18B | 0.15 Joules | 1.5km | 7.0kV | 2.6kV |
| S-28B | 0.23 Joules | 2.5km | 7.2kV | 3.3kV |
| S-45B | 0.47 Joules | 5km | 7.8kV | 5.0kV |
| S-75B | 0.71 Joules | 10km | 7.8kV | 5.8kV |

Large Solar Fence Energisers - With Internal Batteries



Incorporates intelligent battery management software that monitors energy collected by the solar panel and adjusts output accordingly.

A mains charger is supplied for those extended periods of poor sunlight.

Self Contained System S-180B 20km Solar System

- Powers up to 20 km
- Self contained package
- Digital screen displays voltage, amps and low battery
- Compact and very portable
- Easy and fast to set up
- 2 x Internal rechargeable batteries
- Earth and Fence leads supplied
- 0-Ring sealed enclosure
- Magnetic switch Full and reduced power levels
- 7,400 Volts output

At 1.78 joules of power the Thunderbird S180B is the most powerful Solar Energiser with built in batteries, available in Australia.

Mounts over top of star post to install. Mains charger port is covered to keep the weather out.

Low Battery Warning - on screen - Proudly Australian Made

Large Solar Fence Energiser - Operates off External Battery





S-340 35km Solar Energiser Operates off external 12V Battery

- 12V solar panel mounted for portability
- · 12V battery leads and clips supplied
- Designed for large fence applications
- Battery not included Operates off an external 12 volt battery

| Model | Stored Energy | Maximum Distance | Voltage @ no load | Voltage @ 1000 ohms |
|--------|---------------|---------------------|----------------------|------------------------|
| S-180B | 1.78 Joules | 20km | 7.4kV | 6.0kV |
| S-340 | 3.35 Joules | 35km | 7.9kV | 6.6kV |

Large Solar Fence Energisers - Operates off External Battery



S-355 35 km Solar Energiser (MB-355 + solar kit)

S-560R 50 km Solar Energiser (MB-560R + solar kit)

S-1060R 85 km Solar Energiser (MB-1060R + solar kit)

S-1760R 135 km Solar Energiser (MB-1760R + solar kit)

Designed for large fence applications where no mains power is available.

Regulator and mounting supplied as standard. Thunderbird's large solar systems are designed to be connected to an external 12 volt battery.

• Battery not included.

| Model | Recommended Min Solar Panel Size | Recommended Min Battery Size | Systems Voltage | Regulator |
|-----------|-------------------------------------|---------------------------------|-----------------|-----------|
| S-18B | 2 watts | 7 A/H | 12V | No |
| S-28B | 5 watts | 7 A/H | 12V | No |
| S-45B | 5 watts | tts 7 A/H | | No |
| S-75B | 5 watts | 7 A/H | 12V | No |
| S-180B | 12 watts | 14 A/H | 12V | Yes |
| S-340 | 25 watts | 80 A/H | 12V | Yes |
| S-255/355 | 25 watts | 80 A/H | 12V | Yes |
| S-560R | 40 watts | 100 A/H | 12V | Yes |
| S-1060R | 80 Watts | 200 A/H | 12V | Yes |
| S-1760R | 120 watts | 280 A/H | 12V | Yes |

Note: Deep cycle type batteries are recommended Solar panel sizes may vary due to geographical locations

Please note - energiser distances are a guide only. Factors such as proximity of live wire(s) to earth or to other parts of a fence, distance of live wire run underground, thickness of wire and earth condition will affect the effective distance. Thunderbird recommend a minimum distance of 200mm between the live wire(s) and any other conductor, otherwise effective energiser distance is reduced.

Battery Fence Energisers





Strip Grazer BD-20

Powers up to 2 km, operates from 4 x D cell batteries or an external 12 volt battery

- Designed for short runs of electric fencing
- Portable and low battery use are the big features of this energiser
- Designed to hang on the live fence wire All wiring comes as standard
- OK Pulse and low battery lights
- Electronics are heavily coated to avoid failure due to moisture and Insect damage

Small / Medium Battery Fence Energisers





B-20 Powers up to 2 km

B-60 Powers up to 7.5 km

B-120 Powers up to 15 km



Coated electronics to resist moisture and insects, modular design. Pulse and low battery lights. This range is reliable and versatile - designed to operate in the harshest conditions.

Powered by 12 volt external battery.

| Model | Distance | Stored Energy | Battery Drain | Solar Option | Low Battery Indication | Voltage @ no load | Voltage @ 1000 ohms |
|-------|----------|------------------|------------------|--------------|------------------------|-------------------|------------------------|
| BD-20 | 2km | 0.1 | 14mA | 5 watt | Yes | 7.5kV | 1.7kV |
| B-20 | 2km | 0.3 | 33mA | 5 watt | Yes | 7.1kV | 4.4kV |
| B-60 | 7.5km | 0.77 | 44mA | 5-8 watt | Yes | 8.8kV | 6.2kV |
| B-120 | 15km | 1.5 | 90mA | 12 watt | Yes | 8.7kV | 6.7kV |

Garden Fence Energiser Kits

Mains Kit Contains Energiser 8 x posts 50 m wire sign earth stake end insulators 8m u/g cable joint clamps

25 x post clips



Kit Contains
Energiser
8 x posts
50 m wire
sign & earth stake
end insulators
joint clamps

25 x post clips

12 volt (battery)



Testers & Energiser Accessories



EF-5A Fault Locator

- Displays: volts, amps and direction of the fault
- Auto power off function saves battery
- Saves time locating short
- Cordless design

Designed for use with units over 1 Joule of stored energy only



EF-9 Lite Volt Tester

- 4 Lights indicate voltage level: 1,500, 3,000, 4,500 & 6,000 volts
- (Poor, fair, good or excellent)
 Requires no battery to operate





EF-8 Digital Volt Meter

- Reads up to 10,000 volts
- Large digital display
- Auto on/off function
- 9 volt battery, lasts up to 1 year



EF-4 Fence Flasher

- Fence Flasher
- Sealed from moisture and insect damage
- Flashes when fence voltage is over 2,500 volts
- Can be seen up to 1 km away at night



ERC-2 Remote Control

Turns energiser {with "R" suffix} on or off, from the paddock, simply connect to anywhere along the hot wire to turn on or off.

Built in digital volt meter

The remote is ideal for long distance fence lines - Finding and repairing faults is now made easy.



Earthing Kits & Accessories



EF-126 Earth Clamp

Fits 12mm rod, provides secure electronical connection



EF-70 Portable Galvanised Earth Stake

Hot dipped galvanised, 1000mm in length, T bar top for easy removal,

Termination bolt included

EF-60 Super Earth Kit

Contains bentonite and salt to improve soil conductivity around earth rod, stainless steel rod for long life

Steel Post Insulators



EF-18S Super strong pinlock with UV stabilised plastic. Ideal for wire or polywire



EF-18D Dual Purpose Pinlock
- Fits oval and round hole
posts, slot for 12mm tape two pin option - larger shield
and fence wire pin



EF-18C Claw Pinlock insulator, easy mounting & UV stabilised plastic for long life



EF-23L Long Steel Post Cap Insulator - maximum visibility, for wire or up to 40mm tape secures to post



EF-23C Claw Post Cap Insulator - Can take up to 40mm tape, UV stabilised plastic



EF-23S White Post Cap Insulator - Ideal for wire & cord, UV stabilised plastic, can take up to 40mm tape-Can be fixed to post



EF-106 Wide Tape Pinlock Insulator - takes up to 40mm tape



EF-31B Porcelain Steel Post Insulator - Fire resistant and long lasting. Porcelain, clip, nut & bolt supplied

Wood Post Insulators



EF-19 Heavy Duty Pinlock Insulator—UV stabilised plastic for long lasting, large shield to prevent arcing



EF-19C Claw Pinlock Insulator - Ribbed for extra strength, UV stabilised plastic, anti arc shield



EF-17 Screw In Insulator—screws straight into soft timber, slotted for easy wire access



EF-24 Staple Insulator— Clamps around wire, galvanised staple for longer life



EF-107 Screw On Insulator— ideal for wide tape up to 40mm, white UV stabilised plastic



EF-31A Porcelain Drive In Insulator—long lasting & robust Porcelain, clip & nail supplied



EF-7 30M Insultube 5mm I.D, 9mm O.D

End Strain Insulators



EF-16 Plastic End Strainer— Extra long leakage path, designed for short strains



EF-16W Super End Strainer—tough UV stabilised plastic, ideal for long fence strains



EF-26 Porcelain Reel—Ideal for corner strains. Large 41mm diameter



EF-25 Porcelain End Strainer—Strong and long lasting fire resistant material

Offset Insulators



EF-31 41mm Porcelain Reel & 300mm Spring Steel Wire - C clip supplied. Strong & robust for longer life



EF-29 Plastic Pinlock & 300mm Spring Steel Wire. Connects to pre-strained wire



EF-30 300mm Spring Steel Wire Only. Takes pinlock or porcelain



EF-27 Polytube 300mm - Can be installed to prestrained wire. Plastic tube insulator



EF-17L 200mm Screw In Wood Post Offset. Slotted for easy wire access



EF-22 Steel Post 150mm
Plastic Offset—Ideal for hot tape, fits to both sides of post



EF-28S Steel Post 300mm Plastic Offset—Clamps around Y post. Safe to use with horses



EF-50 300mm Fiberglass offset & spring clip, drives into wood posts



EF-342 200mm Pinlock Y steel post offset—Ideal for wire and polywire



EF-345 160mm Swivel lock Y post offset—Takes up to 6mm rope/wire and 12mm tape



EF-344 200mm Y post offset for 40mm tape—Takes up to 40mm tape



EF-341 270mm Drive in wood post pigtail offset

Offset insulators are used for those wanting to electrify existing fences.



EF-340 150mm Drive in wood post pigtail offset

Offset Insulators



EF-83D 150mm Single dual purpose pigtail offset—Fits oval & round hole posts. Can mount on steel or wood posts



EF-84D 250mm Single dual purpose pigtail offset—Fits oval & round hole posts. Can mount on steel or wood posts



EF-85D 250mm Double dual purpose pigtail offset—Fits oval & round hole posts. Can mount on steel or wood posts



EF-89 150mm Flat surface offset, can be screwed, bolted or nailed to any flat surfaces

Gateways & Gate Accessories



EF-32SG Gate Smooth Grip Handle—Gal spring and hook with a large smooth grip handle



EF-32SGC Compression handle super strong trace spring with a large smooth grip handle



EF-32A Plastic hook handle Completely insulated



EF-34B 3 Way gate anchor with gal connection plate - Wood post



EF-34BS 3 Way anchor with gal connection plate—Steel post



EF-34BD 3 Way anchor with gal connection plate—Steel post



EF-102 Duplex Joiner for braid rope and wire



EF-34C Spring gate kit—up to 5 meters with large gal spring



EF-110 7m Bungee gate **EF-110L** 11m Bungee gate



EF-46 Tape gate kit—Up to 5 meters

All gate kits include 3 way gate anchor for wood post insulated spring handle and wood post insulator

Wire Joiners & Strainers



EF-13S Wire joint clamp - Heavy duty, strong design, galvanised finish, for an excellent electrical joint



EF-13 Wire joint clamp—Slit bolt takes up to 2.5mm wire



EF-13C Claw wire joint clamp - reversible clamp type



EF-34 Plain ratchet strainer—Rust resistant, galvanised frame, clip lock design



EF-33A Porcelain ratchet strainer - Rust resistant, galvanised frame, long life porcelain insulator



EF-33 Plastic ratchet strainer Rust resistant, galvanised frame with large insulator

Underground Cable





Thunderbird's underground cable is double insulated for premium insulation. It is manufactured from high quality materials with a galvanised wire core. Used as a lead out from shed to fence, under gateways, general wire connections and earth stake wires.

EF-11E 25m x 1.6mm

EF-11 50m x 1.6mm

EF-11C 100m x 1.6mm

EF-11F 25m x 2.5mm

EF-11A 50m x 2.5mm

EF-11B 100m x 2.5mm

EF-11D 200m x 2.5mm

EF-11G 400m x 2.5mm

Tape, Rope, Cord, Braid & Polywire



Poly Wire - The Poly Wire range uses 6 stainless steel wires, and is ideal for short distances.

EF-40EO - 200m orange **EF-40EW** - 200m white

EF-40D0 - 500m orange

EF-40DW - 500m white



Hot Tape—Designed for short distances,12mm wide, with 5 stainless steel wires. Highly visible woven design

EF-40B0 - 200m orange

EF-40CW - 400m white

EF-40BW - 200m white

EF-40C0 400m orange

EF-41 - 100m x 40mm wide

Ultra Conductive Products -The range of Thunder Poly Tapes, Cords, Braids and Ropes feature a combination of tinned copper and stainless steel. Superior conductivity and strength, resulting in better power transfer and longer life.



EF-48– 200m Thundertape **EF-48A**– 400M Thundertape **EF-47** - 200m Thunderbraid **EF-53** - 200m Thunderrope

EF-47AB– 550m Thunderbraid

EF-52— 200m Thundercord

EF-52A- 400m Thundercord

Pre-loaded Reels



EF-36G47A—Geared Reel with 400M Thunderbraid – Super conductive!

EF-40BWREEL—200m Polytape pre-loaded on reel

EF-48REEL—200m Thundertape pre-loaded on reel

EF-52REEL— 200m Thundercord pre-loaded on reel

EF-47REEL— 200m Thunderbraid pre-loaded on reel

Hot Tape & Poly Wire Specifications

Performance Chart—Tapes, Wire, Cord, Braid & Rope

| Product | Item # | Length | Colour | Width | Volts at start of fence | Volts at 500m | Volts at 1km | Type of conductor | | | | | |
|--------------|---------|--------|------------------------|-------|-------------------------|---------------|-----------------|-------------------|--|--|--|--|--|
| Tapes | Tapes | | | | | | | | | | | | |
| Wide Tape | EF-41 | 100m | White | 40mm | 8,000 | 1,600 | 890 | SS | | | | | |
| Thundertape | EF-48 | 200m | White/red | 12mm | 8,000 | 6,400 | 5,300 | CU + SS | | | | | |
| Thundertape | EF-48A | 400m | White/red | 12mm | 8,000 | 6,400 | 5,300 | CU + SS | | | | | |
| Poly Tape | EF-40BW | 200m | White | 12mm | 8,000 | 890 | 470 | SS | | | | | |
| Poly Tape | EF-40CW | 400m | White | 12mm | 8,000 | 890 | 470 | SS | | | | | |
| Poly Tape | EF-40B0 | 200m | Orange | 12mm | 8,000 | 890 | 470 | SS | | | | | |
| Poly Tape | EF-40CO | 400m | Orange | 12mm | 8,000 | 890 | 470 | SS | | | | | |
| Wires & Co | rds | | | | | | | | | | | | |
| Thundercord | EF-52 | 200m | White/red | 3.5mm | 8,000 | 6,960 | 6,200 | CU + SS | | | | | |
| Thundercord | EF-52A | 400m | White/red | 3.5mm | 8,000 | 6,960 | 6,200 | CU + SS | | | | | |
| Poly Wire | EF-40EW | 200m | White | 2.5mm | 8,000 | 1,140 | 600 | SS | | | | | |
| Poly Wire | EF-40DW | 500m | White | 2.5mm | 8,000 | 1,140 | 600 | SS | | | | | |
| Poly Wire | EF-40E0 | 200m | Orange | 2.5mm | 8,000 | 1,140 | 600 | SS | | | | | |
| Poly Wire | EF-40D0 | 500m | Orange | 2.5mm | 8,000 | 1,140 | 600 | SS | | | | | |
| Braid: | | | | | | | | | | | | | |
| Thunderbriad | EF-47 | 200m | White/black/ yellow | 3.5mm | 8,000 | 6,720 | 5,800 | CU | | | | | |
| Thunderbriad | EF-47AB | 550m | White/Black/ Yellow | 3.5mm | 8,000 | 6,720 | 5,800 | CU | | | | | |
| Rope: | | | | | | | | | | | | | |
| Thunderrope | EF-53 | 200m | White/black | 6mm | 8,000 | 6,960 | 6,200 | CU + SS | | | | | |

Note - The Thunder range of poly products use a combination of stainless steel (for strength and durability) and copper wire (for superior conductivity), providing a longer lasting and better performance.

Recommended distances are maximum, when energiser is placed in the middle of the fence line, to reduce distance the pulse needs to travel. Results may vary depending on conditions and many other factors, figures are with a 500 ohm resistance to earth to represent an animal.

All figures are approximate

Cu = tinned copper wire

SS = stainless steel







Wind Up Reels



EF-36 - Small Reel—Takes up to 200m Tape / 500m Polywire Insulated bobbin, aluminium frame, light and easy to use



EF-36A Large Wind Up Reel—Takes up to 300m tape / 500m Polywire Insulated bobbin, aluminium frame, light and easy to use



EF-36G Geared 3 to 1 Wind Up Reel—Takes up to 200m tape / 500m polywire.

Easier and faster to wind up with a 3 to 1 ratio, galvanised frame, light weight, easy to use & strong robust design

Tread In Posts

EF-61 Plastic Multi Wire Tread In Post - 1080mm tall, heavy duty white plastic, light weight but robust



EF-61B Plastic Multi Wire Tread In Post Black— 1080mm tall, light weight



EF-38 Multi Wire Galvanised Post - 1100mm tall, non breakable steel foot, replaceable insulators, spring steel design

EF-38H Multi Wire Galvanised Post - 1500mm tall, non breakable foot, replaceable insulators, spring steel design



EF-37 Orange Pigtail Tread In Post - 10mm x 1000mm heavy duty steel, robust construction for longer life



EF-39 Galvanised Pigtail Tread In Post - 6mm x 1060mm spring steel design, non breakable steel foot

Fiberglass Fencing



Ideal for temporary and permanent fencing

EF-55 1000mm x 10mm Fiberglass Posts

EF-54 1250mm x 10mm Fiberglass Posts

EF-56 1500mm x 10mm Fiberglass Posts

EF-57 10mm Galvanised Spring Clips

EF-51 Nylon Driver Cap

Fence Accessories



EF-59 Single Fence Jumper Lead—

Ideal to parallel fence wires



EF-119 Triple Fence Jumper Lead Insulated lead and clips. *Ideal to* parallel wires



EF-173 12V Battery Lead— 2.5mm jack with black and red insulated clips. Connects from energiser to battery



EF-171 Green Earth Lead & Clip **EF-172** Red Fence Lead & Clip Insulated clip with ring end for energiser terminals



EF-121 Black Clip EF-120 Red Clip EF-122 Green Clip Insulated clips



EF-17T00L Drill Connection Tool for EF-17 wood post offsets- Easier to apply to wood posts



Tape Joining Buckles **EF-103C** 40mm **EF-104C** 12mm



KEEP OUT PRIVATE PROPERTY





Double Sided Fence Signs:

EF-15 Electric Fence

EF-15A Keep Out

EF-15B Shut The Gate

EF-15D Beware Of The Dog



EF-49 Flood Isolator— Reduces power loss when flood contacts the fence, prevents fence shorting out into floodway



EF-10K Lightening Diverter Kit—Designed to divert lightening into the ground to protect energiser



EF-14 Cut Out Switch—Swivel knife type with stainless steel contacts



EF-14S Cut Out Switch— Swivel contact blade, easy to view on/off function





EF-10A Lightning spark gap - Adjustable gap to suit all size energisers

Our range of Products are Tough! and excellent Value for Money.

Horse Sighter Wire





EF-502 4mm x 650m Horse Sighter Wire

- · Highly visible, smooth and attractive
- · UV stabilised, last for years in the sun
- SAFE—capable of stretching up to 24%
- · 7 times lighter than steel wire
- Strong—300 to 400kg breaking force
- Non conductive, 650m rolls, 4mm thick
- Resistant to sunlight, crop chemicals, acids, extreme temperatures and salt water.





EF-510 Wire link joiner 3-4mm

EF-511 End vice fitting 3-4mm

Electric Netting



THUNDERNET is available in 2 versions -

Poultry netting and Sheep / Goat netting. Both versions come in 50 metre rolls and include 14 double prong tread in posts.

Multiple nets can be connected together to create larger enclosures.

The top strand is strengthened and contains high conductive copper wires.

UV stabilised plastic. Improve your soil fertility. Set up and connect in 10 minutes.

Poultry netting IDEAL FOR FREE RANGE POULTRY

- 12 horizontal wires and stands 112 cm high.
- Bottom wire is not electrified and is suitable for hens, geese and turkeys.
- Effective against foxes, dogs and goannas.

Sheep / Goat netting

- 10 horizontal wires, 108 cm in height. Strong plastic struts every 30 cm provides stability.
- Designed for uneven terrain. Bottom wire is not electrified.
- Suitable for sheep, goats, calves and free range pigs.

Recommended energiser size for netting:

1 net—0.2 Joules

2 nets—0.45 joules

3 nets—0.7 Joules

4 nets—1.2 Joules

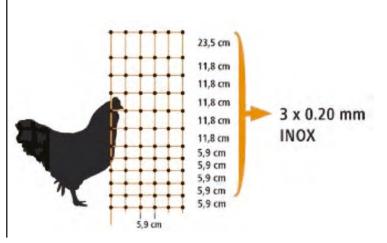
5 nets—1.5 joules

EF-SGCNETSheep/Goat/Calf Netting

108 cm 1 x 0.25 mm CU 18 cm 13 cm 13 cm 9 cm 9 cm 9 cm 9 cm 13 cm

EF-PNETPoultry Netting

112 cm



Solar Netting Kits



Thunderbird supply solar powered netting kits, packaged up and ready for work. Both Poultry and Sheep/Goat netting kits are available.

Kit contains: S-26B 2.5km solar energiser, 1m galvanised earth stake,

electric fence warning sign, 50m length of netting

Solar Poultry Netting Kit: EF-PNET-KIT

Solar Sheep/Goat Netting: EF-SGCNET-KIT Please note: This kit is suitable for domestic and trained goats only.





Horse Fence Kits

Select from Solar or Battery powered kits.

Each kit includes: Energiser, 1m galvanised earth stake, electric fence warning sign, 10 x 1.5m multi wire tread in posts, pre-loaded reel with 200m poly tape and and an insulated hook handle

Solar kit: EF-SHORSE-KIT

Battery kit: EF-BHORSE-KIT











20

12V Rechargeable Handpieces



RCH-12V

12 volt rechargeable Horse and cattle clipper hand piece, powered by a quality lithium ion battery. Offering portability and flexibility for clipping your animals anywhere, anytime.

- Around 1.5 hours operation on each battery charge
- 240 volt charging system supplied—fast 2.5 hour charging
- BONUS (extra) battery supplied, 4000mah lithium ion
- Nicely balanced, low noise levels and low vibration design
- Powerful 180 watt 12 Volt motor operating at 2800 RPM, with venting system
- Tools supplied—Brush, lubricating oil bottle and screwdriver
- Supplied with a spare set of (bonus) blades
- Convenient carry case supplied to keep everything tidy, together and protected



RSS-12V

THUNDERBIRD are proud to supply the 12 volt rechargeable Sheep Shearing device, powered by a quality lithium battery.

Offering portability and flexibility to shear or crutch small mobs of animals anywhere!

- Around 1.5 hours operation on each battery charge
- 240 volt charging system supplied—fast 2.5 hour charging
- BONUS (extra) battery supplied, 4000mah lithium
- Nicely balanced, low noise levels and low vibration design.
- Powerful 180 watt 12 Volt motor operating at 2800 RPM, with venting system
- Tools supplied—brush, lubricating oil bottle and screwdriver with comb and cutter
- Blade pressure adjustment with rotation knob
- Convenient carry case supplied to keep everything tidy and together
- Can use standard combs and cutters





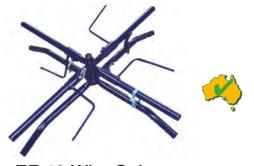
RSS-COMB

Replacement comb for RSS-12V

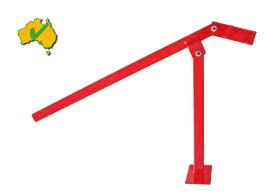
RSS-CUTTER

Replacement cutter for RSS-12V

General Fence Products



EF-43 Wire Spinner Fully adjustable, over-run brake



EF-44 Steel Post Lifter



EF-400

Yellow Steel Post Safety Cap— Can be fastened to post, bright visible colour, UV stabilised plastic



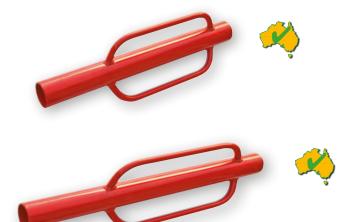
EF-125

Wire Twisting Tool
Smooth comfortable handle,
accommodates multiple
wire sizes



EF-430

Chain Wire Strainer
Insulated grip handle,
swivel for left and right hand
operation, built to last



EF-45

Steel Post Driver 710mm Length

EF-45A

Large Steel Post Driver 1070mm Length Heavy duty strong design

Cattle Prodders



New & Improved Australian Made!!!

RP-500 - 500mm total length

RP-750 - 750mm total length

RP-1000 - 1000mm total length

The Thunderbird rechargeable stock prodder is a versatile tool to assist in the movement of stock through yards, onto and off trucks, and other areas of stock control.

- Tough, flexible polycarbonate shaft
- Strong connection between shaft and body
- Lightweight & easy to handle
- Powerful output
- Rechargeable charge from 12V vehicle or mains, and no spare batteries required
- Approximately 1 hour of continuous use from a fully charged battery, more than enough to load a large stock vehicle
- Up to 4 hours operation based on 25% duty cycle
- Encapsulated electronics protects against moisture and insects



3 sizes available: 500mm, 750mm & 1000mm

RP-500SHAFT - 250mm shaft = 500mm with handle

RP-750SHAFT - 500mm shaft = 750mm with handle

RP-1000SHAFT - 750mm shaft = 1000mm with handle



Ag Scale Systems



T10-2000

T10 Indicator with 2000 kg loadbars (2 x 580mm bars) Easy to set up and use with a large, easy to view display. Only needs 4 x AA batteries.

Ideal for weighing livestock and produce all round the farm.

T30-2000

T30 Indicator with 2000 kg loadbars (2 x 580mm bars)
Weights can be collected and displayed on screen as statistics.

Animal weights can be drafted in 5 groups

Very portable, robust and easy to set up.



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T10-3000

T10 Indicator with 3000 kg loadbars (2 x 1000mm Bars) Ideal for setting up under cattle crushes. Easy to weigh cattle or farm produce.

Strong structure of loadbars has been proven over many years.

T30-3000

T30 Indicator with the 3000 kg Loadbars Ideal for settinng up under cattle crushes or weigh bins.

Weights can be collected and displayed on screen as statistics

Can provide statistics on the mob.



Thunderbird loadbars are fitted with rodent protection mesh, cable hose protection, are of galvanized construction and use high quality o-ring sealed connectors

Ag Scale Specifications

| INDICATOR | | |
|---|-----|-----|
| FEATURES | T10 | T30 |
| Auto and Manual Tare | YES | YES |
| 3 Weighing Modes | YES | YES |
| Sealed Weather resistant Keypad | YES | YES |
| Low Battery Indicator | YES | YES |
| Large easy to view display, 40mm Digits | YES | YES |
| Fast Stable Software | YES | YES |
| O-ring sealed case | YES | YES |
| Weigh and Hold function | YES | YES |
| Operates up to 30 hours on 4 x AA batteries | YES | YES |
| Lock (hold) Screen Display | YES | YES |
| Keypad Weight Calibration | YES | YES |
| Low Power Auto Function | YES | YES |
| 2 YEARS Warranty | YES | YES |
| On screen statistics | | YES |
| Drafting up to 5 weighs | | YES |
| Statistics displayed on each drafting range | | YES |
| Internal Battery and Recharger | | YES |
| Manual Tally and Auto Tally | | YES |
| External Power Connection | | YES |

| Loadbar | | | |
|-------------------|----------------------|----------------------|--|
| Specifications | Easymove Bars | Extender Bars | |
| Portable use | YES | NO | |
| Permanent use | YES | YES | |
| Gross capacity KG | 500/2000 | 3000 | |
| 2 year Warranty | YES | YES | |
| Bolt down plates | YES | YES | |
| Cable protection | YES | YES | |

500 kg Loadbars

Thunderbird can supply (on request) 500kg loadbars, in a set of 2 bars, each 580mm long.

The 500 kg Load Bars are more sensitive to small weights and deliver a more accurate result, when weighing small articles.



Platforms and Crates



Collapsible Weigh Crate Suitable for Sheep, Pigs and Goats

Collapsible design makes for easy portability 1200 x 580 x 1250mm.





CS-2P

Cattle Platform - Strong steel construction expanded grid mesh 2050 x 640mm



Super Sheep Weigh Crate Auto rear closing gates, Optional wheel kit 1450 x 580 x 1000mm





2050 x 640mm

Galvanised Cattle Platform—Hot dipped galvanised finish for longer lasting



CS-DRA

3way Draft Module Drafts in 3 directions Connects to the CS-2C Sheep Crate 775 x 550 x 1040mm



CS-2P2

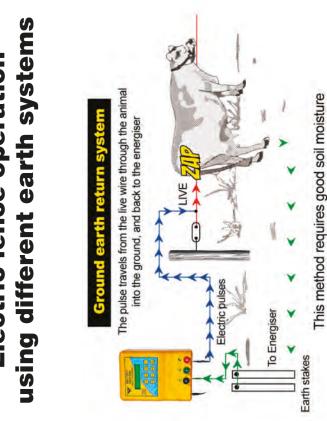
Two Piece Cattle Platform - Expended grid mesh Split/lock together 2000 x 640mm



CS-WHEELS

Attachable wheels and handles for CS-2C sheep crate for portability

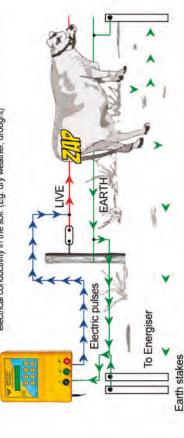
Electric fence operation



(Recommended for strip grazing only)

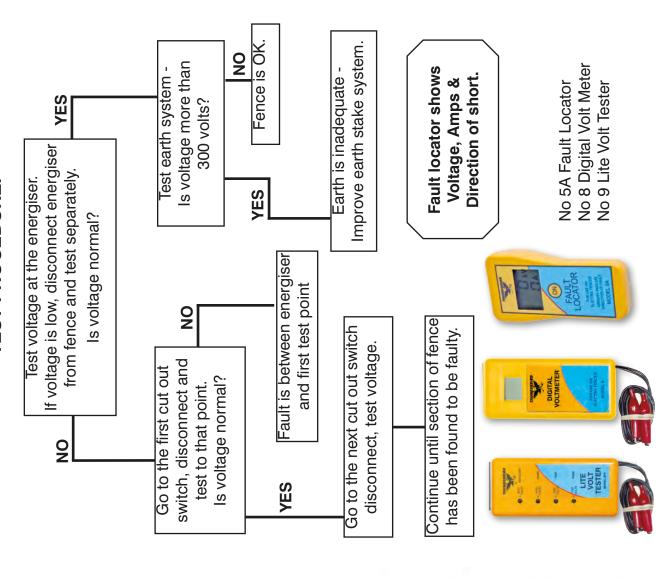
(The preferred method)

through the animal. This method overcomes the problem of reduced or no pulse transmission due to poor electrical conductivity in the soil. (Eg. dry weather, drought) When the animal pushes against both the live wire and earth return wire a strong pulse is passed directly



Fence Testing / Fault Finding

TEST PROCEDURE.



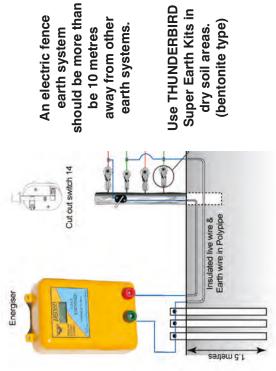
The pulse must return back to the energiser for a shock to be recieved Use a bentonite earth kit in dry soil areas.

Earth wires are recommended for long fence or dry soil areas.

Earthing.

Most problems with electric fencing are associated with POOR earthing! The live wire is only half the circuit, earthing is just as mportant.

The fence will not be effective if the earth is unsatisfactory.



Jse THUNDERBIRD Super Earth Kits in dry soil areas.

(bentonite type) Drive 3 stakes 1.5 metres into the ground. Place

Copper connected to other metals creates electrolysis, the stakes 5 metres apart. Use galvanised steel or stainless steel stakes. - DO NOT USE COPPER.

connections tightly using bolts or wire joint clamps. energiser with double insulated cable, and clamp Position in a moist area if possible. Connect to

causing poor contacts.

1km of fence run, and connect the stakes with wire Drive additional earth stakes into the ground every oint clamps to non electrified wires in the fence.

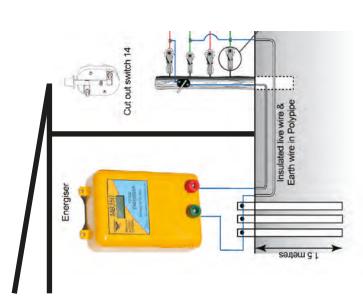
Energiser Installation

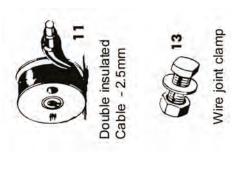
Installing Energisers

Thunderbird energiser are supplied with a full set of instructions - please read hese instructions before installation. nstall mains energisers and MB energisers powered from the mains indoors, and protect permanently installed battery energisers from the weather where practical. Strip grazer energisers do not require covering.

Use THUNDERBIRD double insulated cable from energiser's terminals to earth install energisers in a dry, well ventilated position out of the reach of children. system and live wire, and terminate with wire joint clamps.

Correct earthing is essential, read and follow earthing instructions for best results. Solar panels need to face the equator (face north if in the southern hemisphere) Solar and battery energisers should be installed in the middle of the fence line.





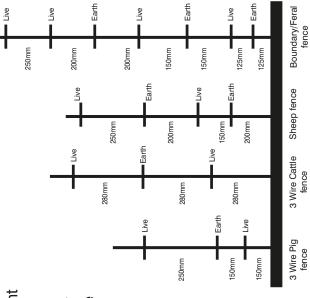
Caution: young children and infirm persons should not be left unsupervised in the vicinity of an operating energiser.

Fence Design

Wire Spacing

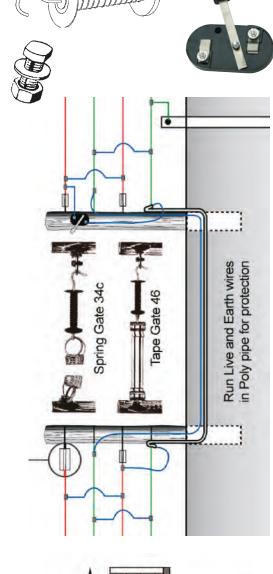
spacings for different Recommended wire animals.

vary a little in some Requirements may conditions.



insulated underground cable Earth Stake Ø Suggested basic layout for area of operation. Cut-out switch Leadout feed wire/s Fence Subdivision

clamps on all connections. Cut out switches can be positioned at gateways to of 300mm inside poly pipe for protection. Bend down poly pipe ends to avoid Use THUNDERBIRD double insulated underground cable buried to a depth rainwater entering. This is done for both live and earth wires, using joint solate fence runs.



Steel or wooden posts require insulators, or use fibreglass posts with clips.

Post Spacing 30 metres (maximum) With 2 Droppers in between

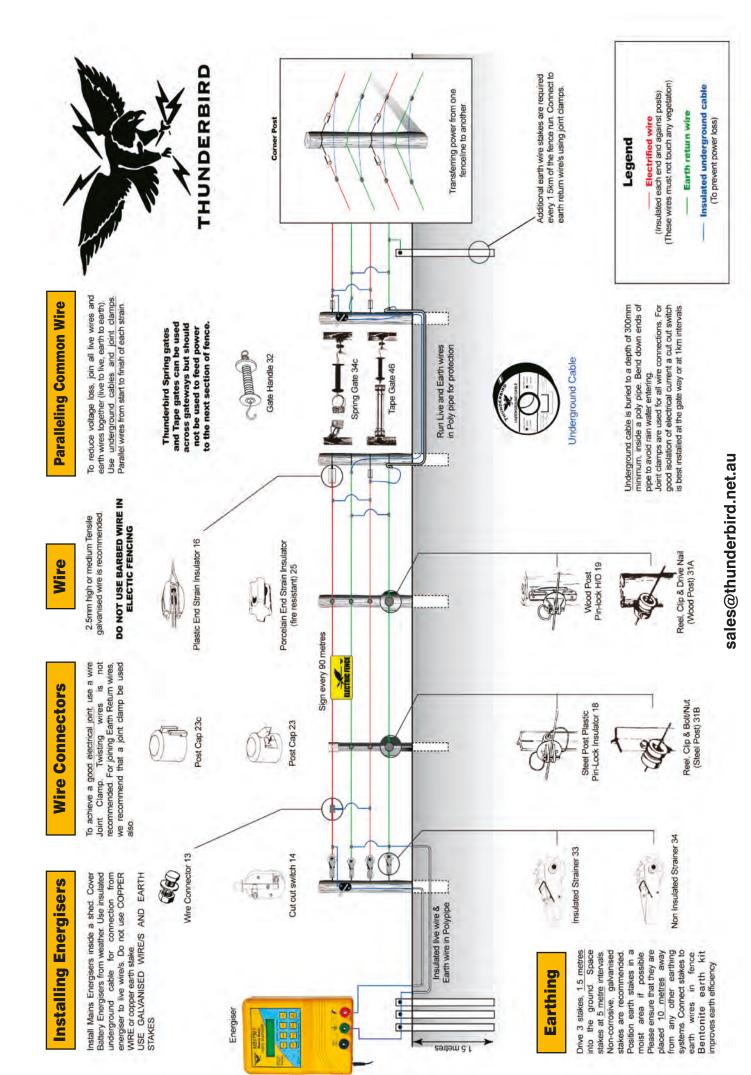
Reduce distance according to

type of terrain.

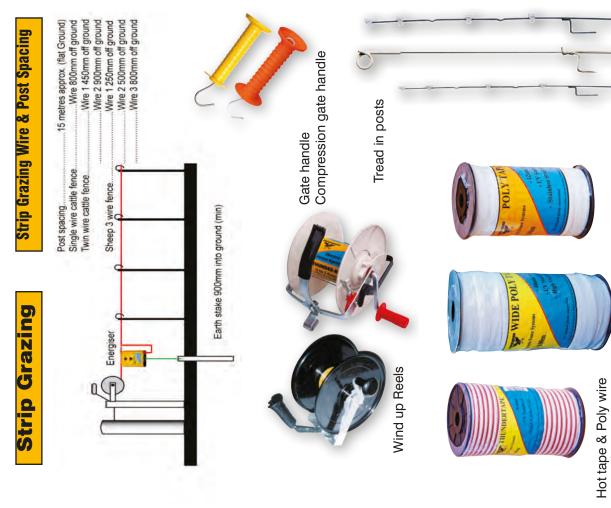
are for flat country (max).

recommendations

Posts spacing



Temporary Electric Fencing



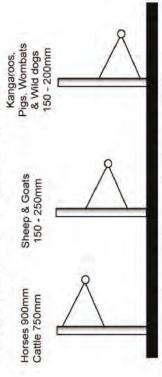
Hot tape and polywire can be used up to 500 metres effectively. Super polytape and polywire can be used for runs up to 1500 metres. For longer runs use galvanised fencing wire.

Upgrading Existing Fences

Offset wires

Offset wires are used to upgrade existing fences, extending fence life and reducing damage. Installed on one or both sides of fence, improves stock control.

Approx. wire height settings



Space offsets approx 15 metres apart (MAX)
Always earth the existing fence by connecting it to earth stakes.





Testing the fence earth system.

Short the fence out 100 metres away from the fence earth stakes. Make sure voltage is around 1500 volts at the energiser. Drive a stake 100mm into the ground around 1 metre away from the last earth stake. Test voltage between the test stake and the fence earth. Voltage should be less than 300 – 600 volts. If voltage is higher additional earth stakes are required.

THUNDERBIRD'S Super bentonite earth kits may be required in poor earth situations. (sandy soil types or rocky ground) THUNDERBIRD'S Fault Locator is an ideal test instrument.



All specifications are subject to change without notice, as our company is committed to product improvements.

www.thunderbird.net.au

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