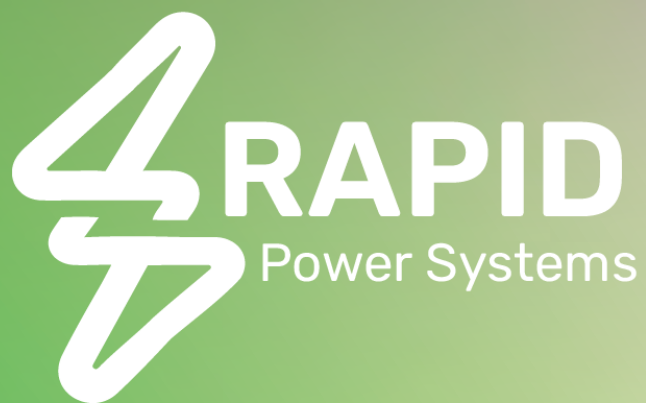




INSTALLATION GUIDE: GETTING STARTED **SOLAR POLE KIT**

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SALES@RAPIDPOWERSYSTEMS.COM.AU

CONTENTS

Getting Started	3
Enclosure Pole Mount Installation	5
Solar Bracket Install	6
Solar Bracket Install - Alternate	8
Troubleshooting - Victron Guide	11
Base Installation Guides	18
• EzyTilt Pole/Winch Guide • EzyWinch Pole/Winch Guide • Surefoot/Rag Bolt Guide • RPS Modular Block Installation Guide	



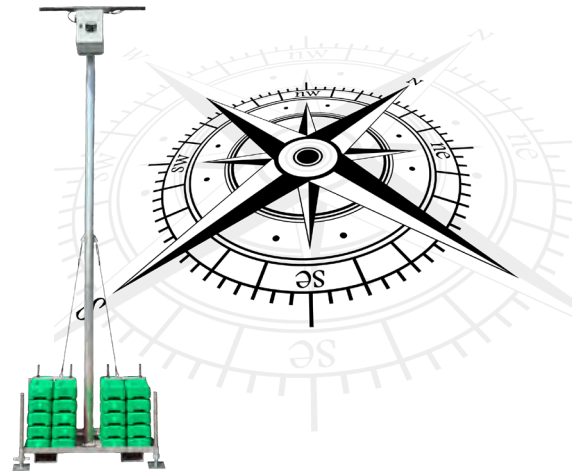
GETTING STARTED

SOLAR POLE KIT



BEFORE YOU BEGIN

- The solar panel must face north and remain free from shading at all times of the day (e.g., from buildings, trees, or other obstructions).
- For easier enclosure installation, we recommend removing the battery beforehand. Ensure all breakers are switched off before disconnecting the battery.



STEP 1 – OPEN THE ENCLOSURE

Use the provided enclosure key to open the unit.

STEP 2 – PREPARE AND RECORD DEVICE INFORMATION

- Record your router details (if applicable). Located on the inside of the door.
- Insert your SIM card following the Teltonika (if applicable) Quick Start Guide: [Watch here](#)
- Locate and note your Victron Connect Bluetooth PIN (our standard is 520090).



STEP 3 – CONNECT POWER AND DATA

- If your device is powered via 12V, either use the supplied fly leads or spare terminals for wiring.
- If using one of our PoE or Non-PoE switches, patch your device to the switch accordingly.
- Once the kit is powered, test all devices before installing the system.

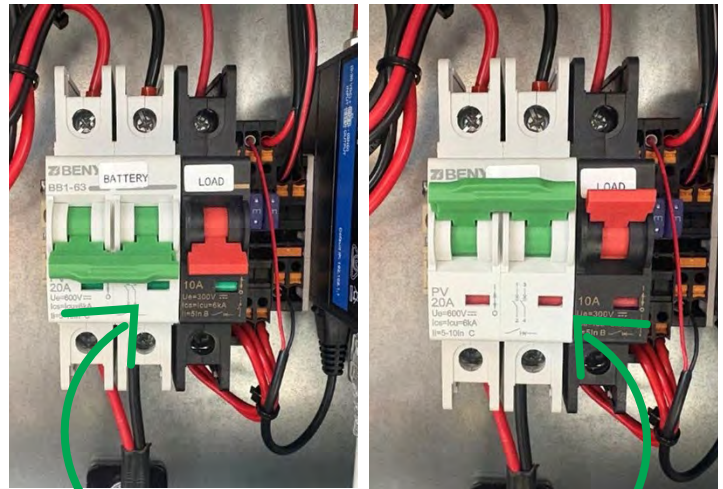
GETTING STARTED

SOLAR POLE KIT



STEP 4 – POWER ON AND FINAL CHECKS

- To turn breakers on, switch them upward – red indicates live power, green indicates off/safe for maintenance.
- In our larger solar kits, you will see an extra circuit breaker to isolate solar.
- In our smaller kits, you will need to disconnect the physical connection to isolate.



Red = Live power
Green = Off/safe

STEP 5 – CONNECTION & HEALTH CHECK

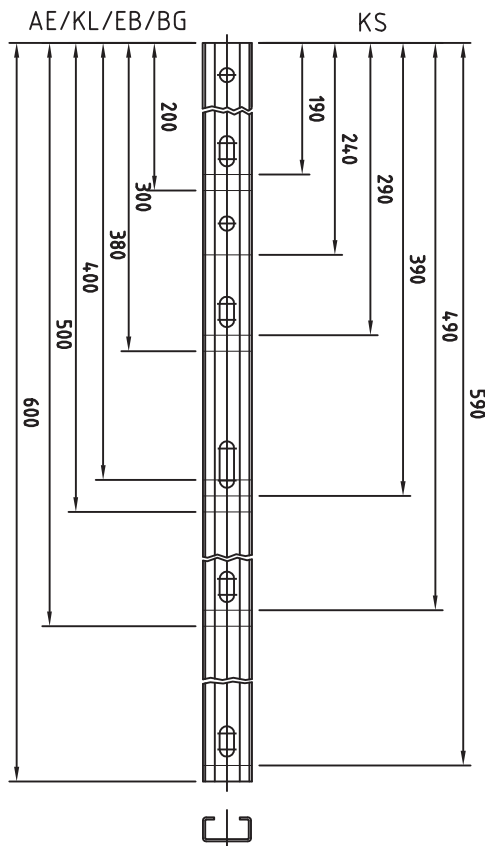
- After the solar panel and enclosure are installed and breakers are on, connect the external MC4 connectors.
- Use the Victron Connect app* to confirm:
 - Battery voltage is healthy
 - Solar panel is producing power
 - Your load is operating correctly

**Refer to our guide on how to use the Victron Connect app. See Rapid Power Systems website for details.*



ENCLOSURE POLE MOUNT INSTALLATION

SOLAR POLE KIT

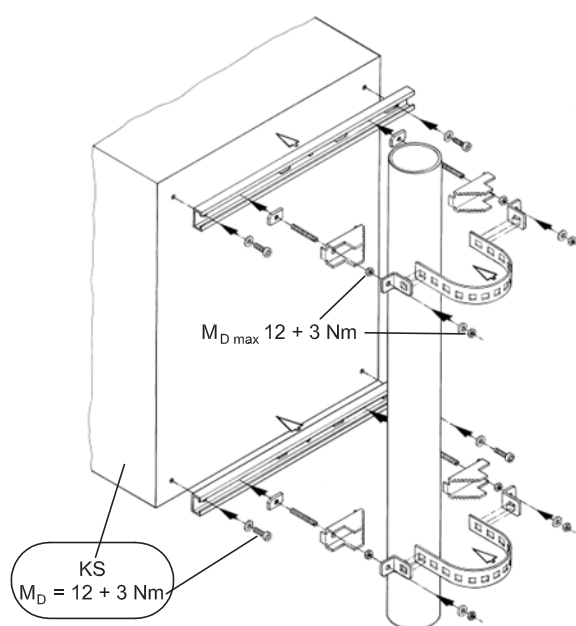
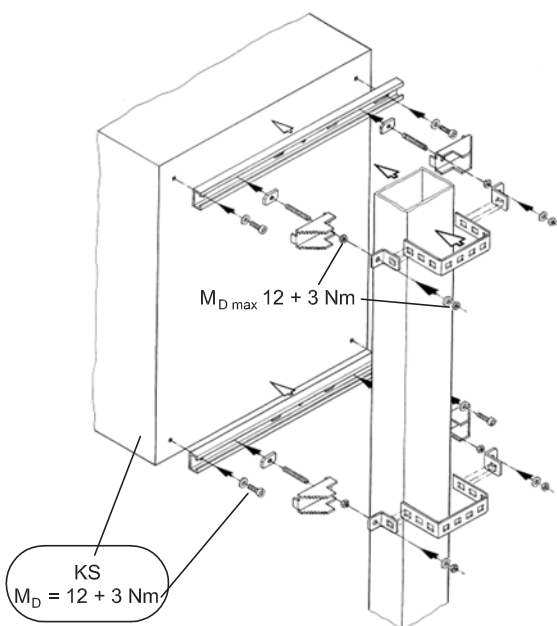
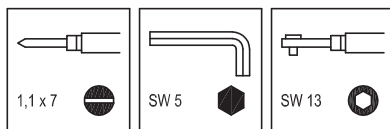


4 X		M8x45
4 X		15x25x6
8 X		Ø8.4 1.4305
12 X		M8
4 X		M8x16
4 X		Ø8.4 PA

Break down profile bar C in accordance with the chosen cabinet width.

Enclosure pole mount kits supplied to fit:

- Round poles: From 40 - 190mm
- Square poles: From 50 to 150mm



SOLAR BRACKET INSTALL

SOLAR POLE KIT



INSTALLATION

Your solar bracket will already be partially pre-assembled.

TOOLS REQUIRED



Socket and Ratchet (A M10 socket and ratchet for tightening supplied fasteners)



Ring Spanner (A M10 ring spanner for tightening supplied fasteners)

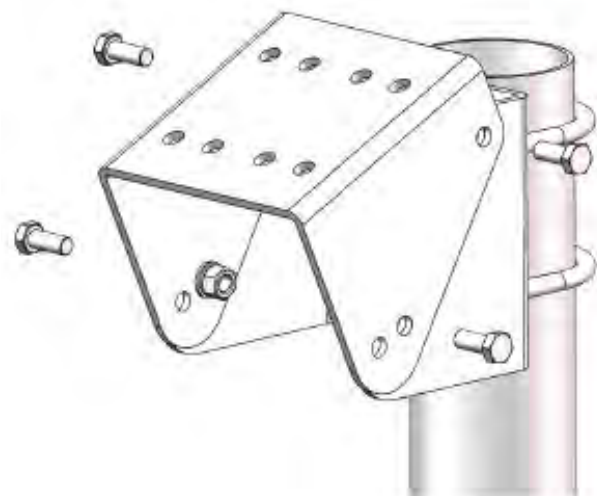
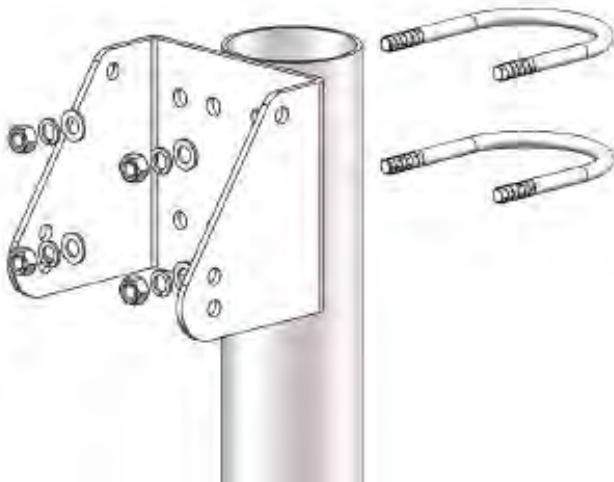


Hex Key (A 6mm hex key / driver bit is required to secure the SunLock channel to the channel feet)

STEP 1

Simply attach to your pole using the U-Bolts provided and tighten (*note: for square poles you will be supplied x2 Stainless Steel rectangular tabs instead of U-Bolts*).

Orientate the bracket on the pole in a northerly direction and ensure no building/trees are shading the panels.



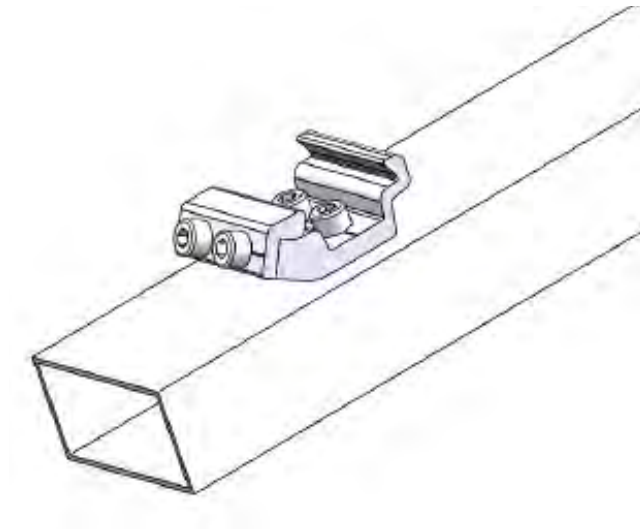
SOLAR BRACKET INSTALL

SOLAR POLE KIT



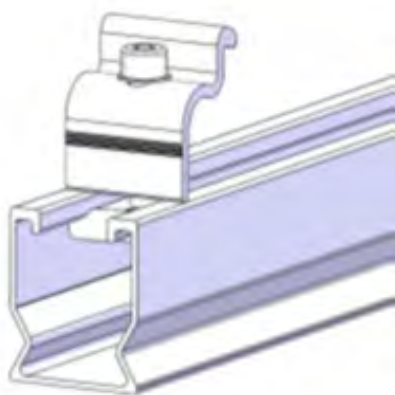
STEP 2

Fasten the channel rail to the channel brackets, ensuring the rail is central to the spine of the bracket.



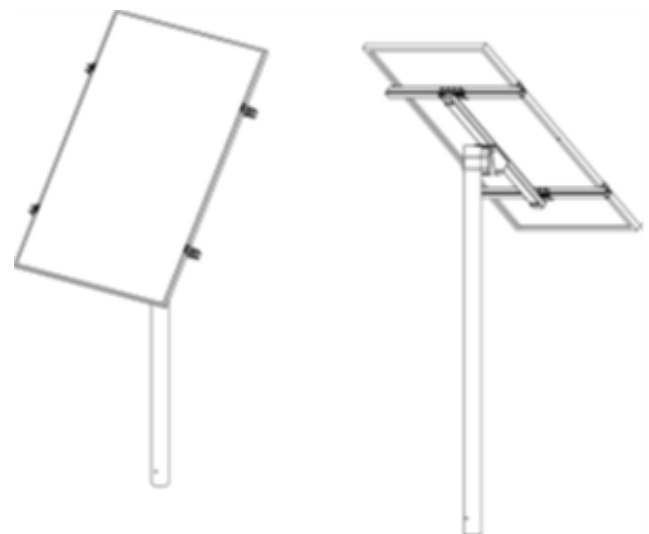
STEP 3

Loosely attach the PV module end-clamps to the end of the channel rail.



STEP 4

Place the solar panel on top of the frame and fasten down the end clamps, ensuring that the clamps securely hold down the panel.



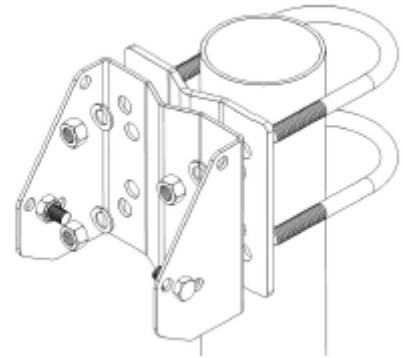
SOLAR BRACKET INSTALL - ALTERNATE

SOLAR POLE KIT



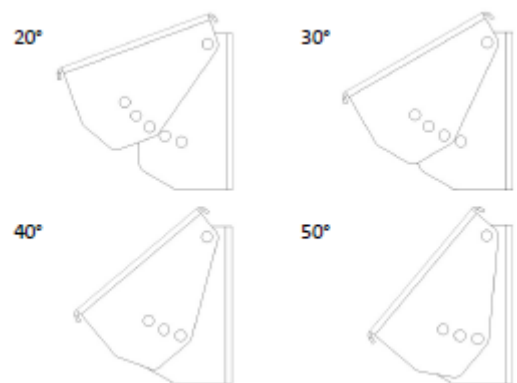
STEP 1

Install the top bracket (EM-BRKT-T) onto the pole as shown in the picture. Note that this will determine the orientation of the solar panel.



STEP 2

Before attaching the frame to the bracket, choose the angle at which the solar panel will be fixed at.

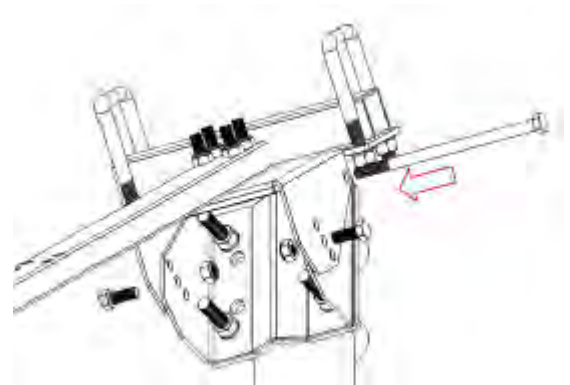


STEP 3

Note: In some instances it may be easier or safer to install the solar panel/s to the frame on the ground first. Follow Steps 6-9 before proceeding with Step 3.

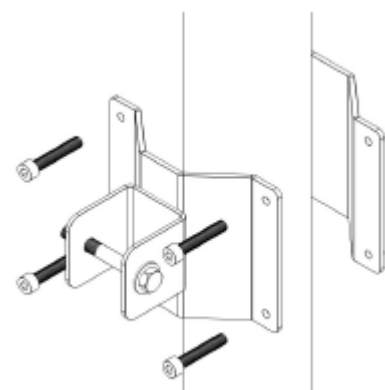
Attach the EM-FRAME to the EM-BRKT-T. The EM-FRAME may come pre-assembled with U-Bolts and the upper half of the EM-BRKT-T.

Insert the M10x180mm hex bolt and M10 Nyloc nut first to combine the two halves and M10x35mm hex bolts and M10 Nyloc nuts to lock the chosen angle in place.



STEP 4

Install the lower bracket (EM-BRKT-B) onto the pole, roughly half a meter below the top bracket. Do not tighten up the bolts yet.



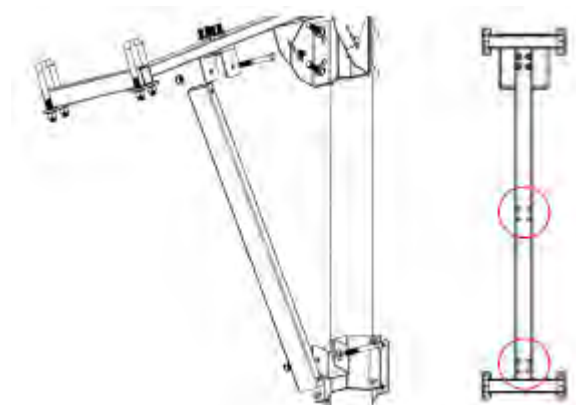
STEP 5

Use the support bar (EM-SUPP) to connect the lower bracket to the EM-FRAME using M10x80mm bolts and M10 Nyloc nuts.

Adjust the position of the lower bracket accordingly. The support bar can be attached to the center or the front section of the frame.

Note: The setup will occupy less vertical space along the pole if the support bar is fixed to the center of the frame.

Tighten ALL bolts.



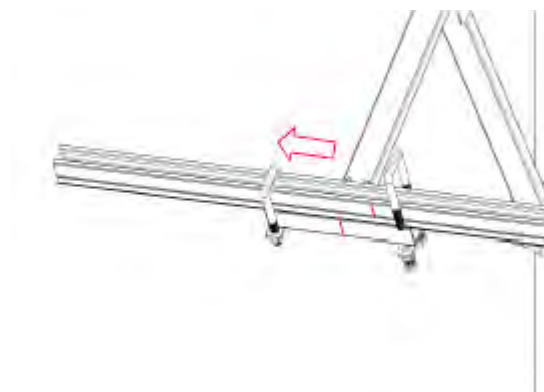
STEP 6A

(To cut the channel, see instructions on page 2)

Attach both SLSCC3 channels to the frame, one at the front and one at the back by sliding them through the U-bolts.

IMPORTANT: Please make sure that the center of each channel is aligned with the center of the frame. If the channel has been pre-cut, it may have markers to assist.

For a 2 PV system, proceed to Step 6B. Tighten all U-Bolt nuts but don't over-tighten as it may crush the channel.

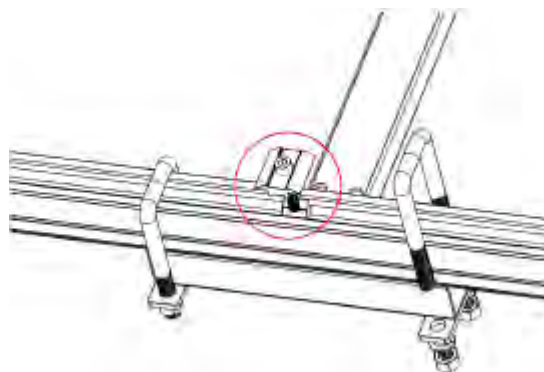


STEP 6B

Undo one U-bolt on the channel and position a mid-clamp (SLCEC-3040) along the center of the frame.

Do this for both channels.

Tighten all U-Bolt nuts but don't over-tighten as it may crush the channel.



SOLAR BRACKET INSTALL - ALTERNATE

SOLAR POLE KIT

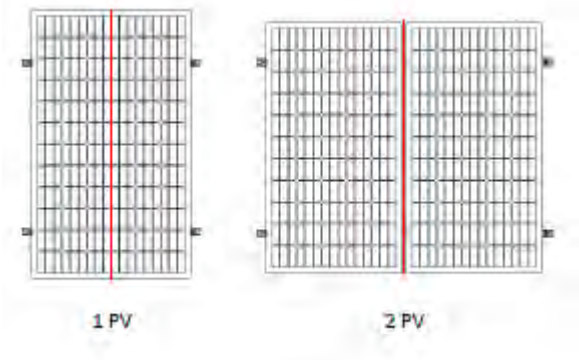


STEP 7

Place the solar panel/s onto the frame.

For a 1 PV system, place the panel in the center of the channels.

For a 2 PV system, place one panel on either side of the mid-clamps. Make sure the mid-clamps remain along the center of the frame.

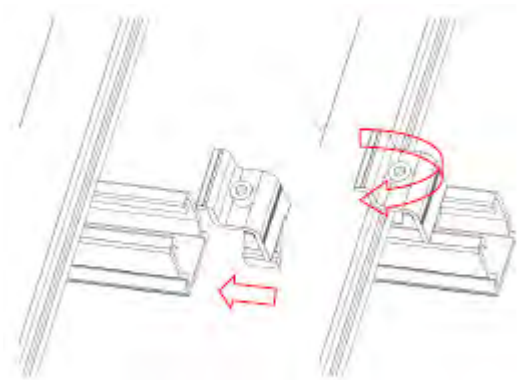


STEP 8

The panel/s should be installed as close as possible along the frame's horizontal axis.

If the panel/s are installed at the top of the pole the setup should resemble example A.

The panel/s may be installed further down the frame in order to clear the pole as illustrated in example B.

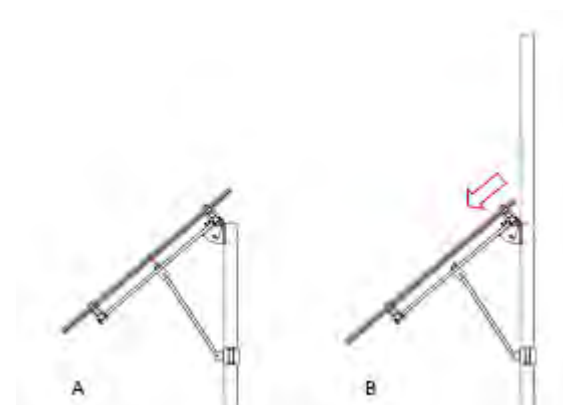


STEP 9

Insert an end-clamp (SLCMC-3040) into each end of the channel and tighten the bolt to secure the panel/s in place.

For a 2 PV setup, tighten mid-clamp bolts.

Follow Steps 3-5 if the panel/s have been installed on the ground.



VICTRON SOLAR CONTROLLER : PRODUCT GUIDE

Most common solar product used in our kits, is a Victron SmartSolar Controller MPPT. These have bluetooth access locally using the 'Victron Connect' app. Or if there is a Cerbo GX connected to the system, the devices can be accessed using the VRM portal.

Note: Models 75/15, 100/20 have dedicated load output terminals. All larger models just have battery and PV. We can use a SmartBattery Protect to control the loads on larger models.



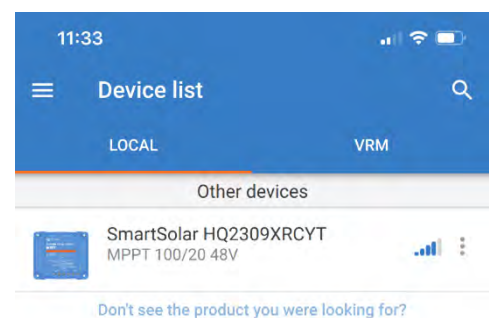
STEP 1

Download the Victron connect app



STEP 2

Select your device, enter PIN (our standard is 520090)



UNDERSTANDING YOUR SYSTEMS IN REAL TIME

Amount of PV (W) the solar panel array is producing. The panels produce the power needed to charge the battery. For example, if in absorption or float state, the PV may seem low.



Solar panel(s) voltage and current from the panel(s) to the controller.

Current voltage of battery.

Current produced by the charger. This current is shared between the battery (charge) and the loads.

Charging profile (Bulk, Absorption, Float or Off). See next page for more info.

Load Output state (On/Off)

Total power draw of loads. (This function is only available on models 75/15 and 100/20)

BULK

The battery is charged at maximum charge current until the voltage increases to the configured absorption voltage.

The bulk stage duration is dependent on the battery's level of discharge, the battery capacity and the charge current.

Once the bulk stage is complete, the battery will be approximately 80% charged (or >95% for Li-ion batteries).

FLOAT

The battery voltage is maintained at the configured float voltage to prevent discharge.

Once float stage is commenced the battery is fully charged and ready for use.

ABSORPTION

The battery is charged at the configured absorption voltage, with the charge current slowly decreasing as the battery approaches full charge.

The absorption stage duration is adaptive and intelligently varied depending on the battery's level of discharge – this is determined from the duration of the bulk charge stage.

The absorption stage duration can vary between a minimum of 30 minutes, up to a maximum limit of 8 hours (or as configured) for a deeply discharged battery.

OFF

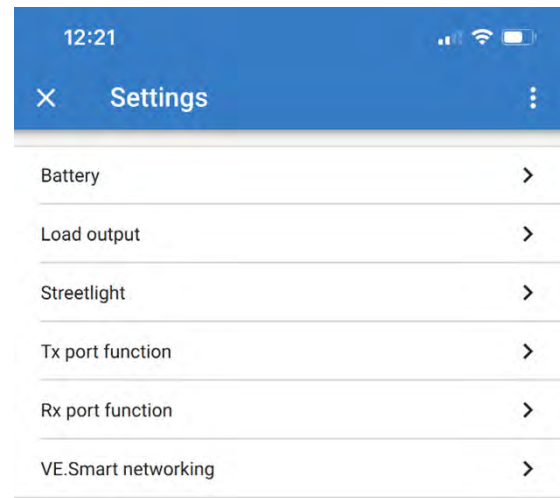
There is no PV available. Common during the night and also if the PV has been physically disconnected.

HISTORY TAB

This allows us to see a summarised performance of battery, solar and load since it was installed.



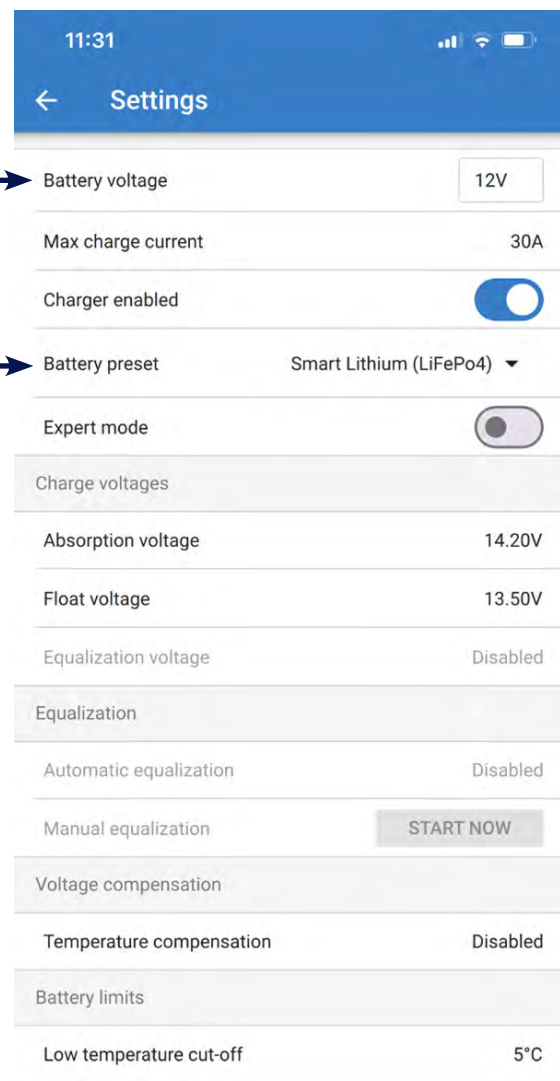
SELECT SETTINGS COG



SELECT BATTERY

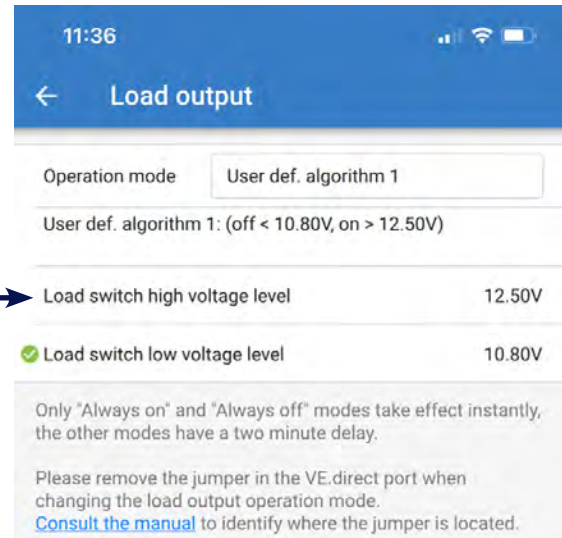
Ensure correct nominal battery voltage is selected.

Check battery preset is correct. We predominantly use LiFe PO4 batteries. If on the wrong preset, this can damage the battery.



RETURN TO SETTINGS, THEN SELECT LOAD OUTPUT

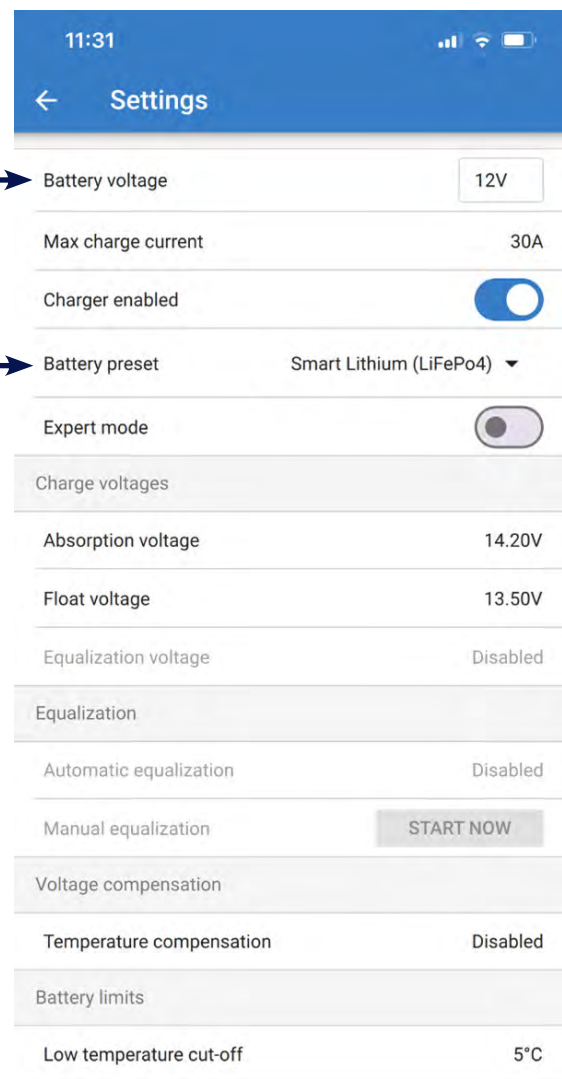
This setting protects our loads from under voltage as well as protecting the battery (although our batteries have their own internal BMS as well). Loads will disconnect at a pre-determined voltage and reconnect once the battery has sufficiently charged to our predetermined voltage.



SELECT BATTERY

Ensure correct nominal battery voltage is selected.

Check battery preset is correct. We predominantly use LiFe PO4 batteries. If on the wrong preset, this can damage the battery.



VISUAL LED INDICATIONS ON CONTROLLER

Errors are indicated via a combination of LEDs that are on, off, or are blinking. Each LED combination has a meaning, indicating either a normal operation mode, or indicating an error.

Symbol	Meaning
●	Permanent on
⦿	Blinking
○	Off

Overview of LED indications:

Operation mode	Bulk LED	Absorption LED	Float LED
Not charging ¹	⦿	○	○
Bulk ¹	●	○	○
Absorption ²	⦿	●	○
Manual equalisation (alternating blinking) ²	⦿	●	○
Automatic equalisation ²	⦿	●	●
Float ²	⦿	○	●

1. The bulk LED will blink briefly every 3 seconds when the system is powered but there is insufficient power to start charging.

2. The LED(s) might blink every 4 seconds indicating that the charger is receiving data from another device, this can be a GX device (ESS) or a VE.Smart Network link via Bluetooth.

Fault mode	Bulk LED	Absorption LED	Float LED
Charger temperature too high	⦿	○	●
Charger over-current	⦿	○	●
Charger or panel over-voltage	⦿	○	●
VE.Smart networking or BMS issue	⦿	○	○
Internal error, calibration issue, settings data lost or current sensor issue.	⦿	○	○

POTENTIAL ISSUES

Battery voltage dropping too low:

- Solar Panel array is shaded/obstructed or not facing North.
- DC loads are greater than what the kit is designed for.
- Adverse weather patterns.
- Battery or panel array undersized.

No solar displayed on app:

- MC4 cable has been disconnected, damaged or wired in reverse.
- Panels damaged.

Load disconnecting and not reconnecting:

- Load output settings not configured correctly
- Faulty controller.

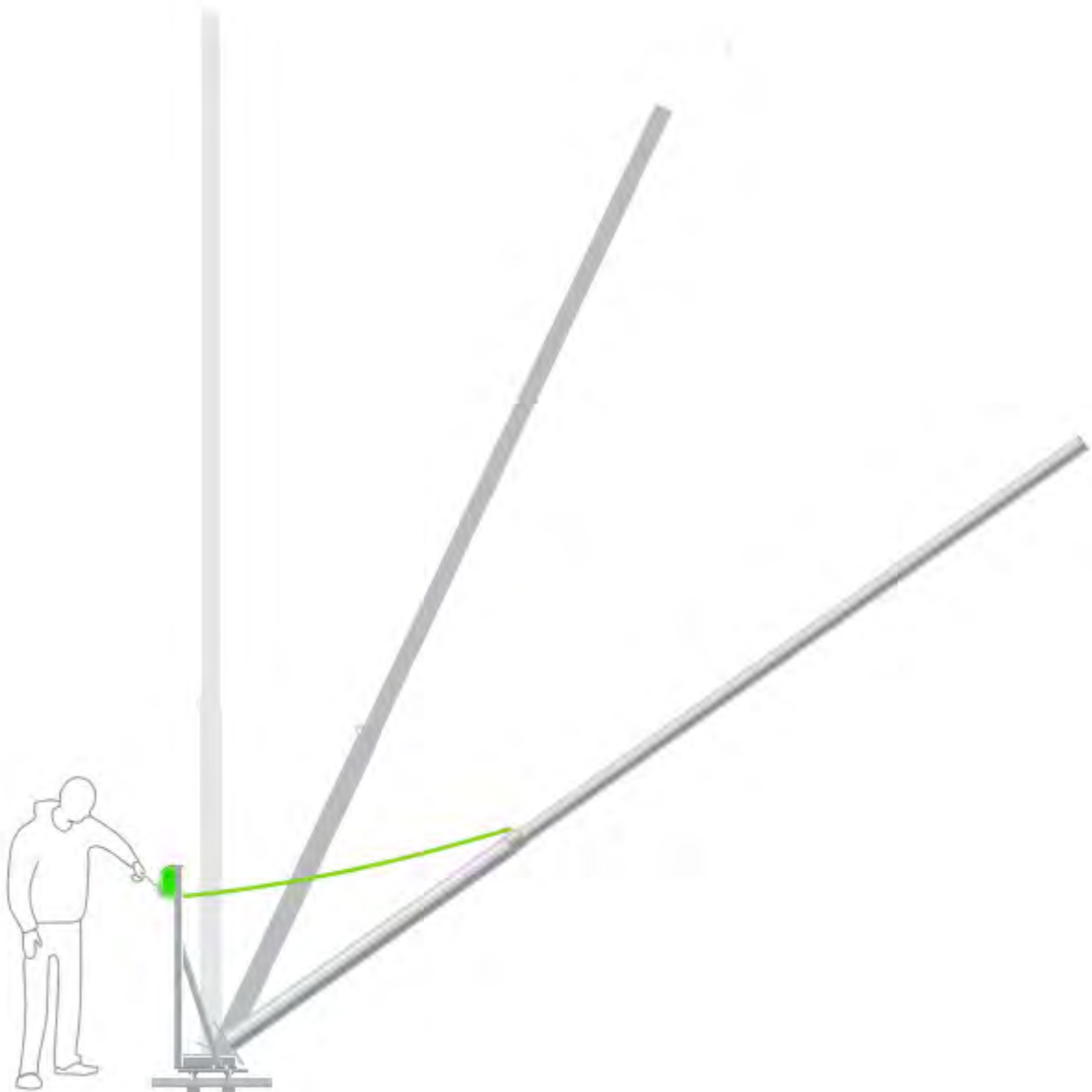
Loads are running during the day but off at night:

- Battery is faulty or switched off at breaker.
Loads are running off solar directly.

Important: check all physical connections and for any obvious damage inside the system before anything else.

EZYTILT, LIGHT, MEDIUM, HEAVY DUTY & 2 PIECE POLE INSTALLATION GUIDE

ET-LD-5.5M | ET-MD-6.0M/6.5M | ET-MD2P-6.0M/6.5M |
ET-MD-8.0M | ET-MD2P-8.0M | ET-HD-6.0M



Installation and safety considerations

CAUTIONS

**FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR
PROPERTY DAMAGE AND WILL VOID WARRANTY**

To ensure safety, do not attempt to assemble the EZYfoot - Foundation without reading and following all instructions

* To capable adults are recommended for this installation

Persons Required for Installation	
Installation Time	30-60 minutes

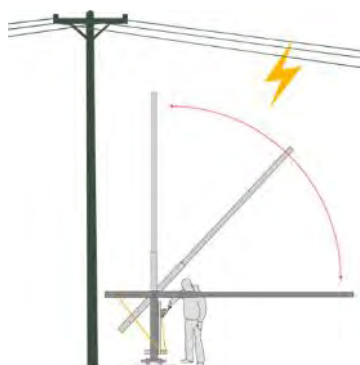
* Assemble the pole sections properly. Failure to do so could cause the pole to separate.

* This pole requires the use of a portable Lowering Winch (PLW) to safely lower & raise the pole. Serious injury & damage to property may result if the following operating procedure is not carefully followed.

* **IMPORTANT NOTE:** Ezypole accepts no responsibility for footing details given. All footing details are indicative only. Footing sizes will vary according to a number of factors including soil conditions, wind loading and terrain categories. In all instances it is the responsibility of the installer to obtain engineers computations to determine the footing detail required for each site.

* Do not attempt to raise and lower pole in windy conditions.

* Before installation be aware of overhead power lines.



Tools and materials required



Step Ladder

OR



Pole Stand Tripod

Part No. EZY-PS

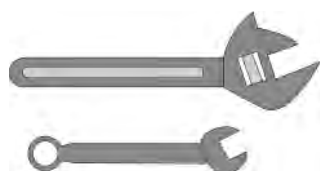


Pole Lowering Tool

Part No. PLW-MD (inc. eyebolt)

Part No. PLW-MDU (inc. EZY-PC)

(Purchased from EZYPole)



10" Wrench



Personal Protection Equipment.

Safety footwear, heavy protection,

Eye protection (goggles) insulated

Protective gloves. High visibility shirt



Small Level



Clamp



Tape Measure



M20 Eyebolt

OR



Pole Clamp

Part No. EZY-PC

EZYpole EZYtilt Pole installation process



Step 1

40-60mm of M20 thread is needed to mount the base plate.

Screw 4 M20 galvanised nuts onto the lag bolts or EZYfoot. Use a spirit level to level them out.

Important: Please ensure that the thread ABOVE the levelling nuts does not exceed 60mm!



Step 2

Place 4 M20 structural washers on top of the nuts.



Step 3

Place the base plate onto the washers.

Make sure the hinge is in the direction that you will lower the pole and is clear of any obstructions, such as power lines.



Step 4

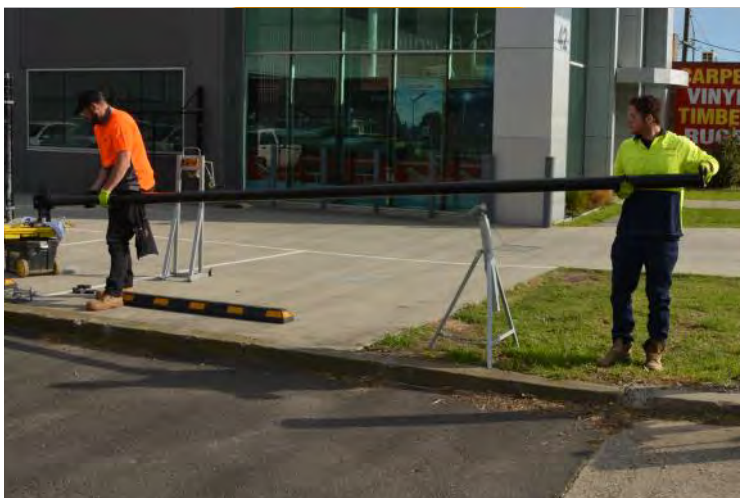
Check that the base plate is level before proceeding to the next step.



Step 5

Put another set of M20 washers and full size M20 nuts to secure the base plate.

Tighten nuts.



Step 6

Position the EZY Tripod Stand (Part No. EZY-PS), or step ladder, in line of the lowering direction.

Set the pole into position and rest it on the Tripod.



Step 7

Fix the pole on to the base plate using M16 bolts.



Step 8

Slide the pole lowering tool (Part No. PLW-MD) all the way on to the base plate.



Step 9

This step is for the one piece base plate cover installation only. Skip this step if you have the two piece cover.

Use a quick grip clamp and attach it to the pole and slide the base plate cover down the pole and rest on the clamp.



M20 Eyebolt

OR



Pole Clamp

Part No. EZY-PC

Step 10

This step is only required for the medium duty, heavy duty and 2 piece pole installation with the pole clamp (Part No. EZY-PC).

Proceed to Step 13 if using the light duty pole and eyebolt.

Remove one bolt and nut from one side of the pole clamp.

Step 11

Open the clamp and wrap it around the upper section of the pole.



Step 12

Close the clamp, re-insert the bolt and fasten the nut. The pole clamp should rest on the lower section of the pole.

Position the hook upwards so its facing the direction of pole lowering tool.





Step 13

This step is only required for the **light duty pole installation with the eyebolt**. Skip this step if using the pole clamp.

Attach the M20 eyebolt to the pole.



Step 14

Unwind some cable from the winch and attach the hook on to the eyebolt or pole clamp

The pole is now ready to be raised.



Step 15

Slowly raise the pole in to its upright position.





Step 16

Once in its upright position, secure the pole to the base plate using M20 washers and bolts.



Step 17

Undo the hook from the eyebolt or pole clamp and remove the pole lowering tool from the base plate.



Step 18

If installing a light duty pole, unscrew the eyebolt from the pole.

If installing a medium duty, heavy duty or 2 piece pole, remove the clamp from the pole.



Step 19

If installing the one piece cover, remove the clamp and slide it down the pole.



Step 20

If using the two piece cover, join them together at the base of the pole and fasten with 6 Tek screws.

Secure the base cover with one Tek screw to the pole and cover with the plastic cap screw.

Installation complete.

EZYTILT POLE LOWERING TOOL

SOLAR POLE KIT



EZYWINCH HEAVY DUTY POLE INSTALLATION GUIDE



Thank you for choosing EZYpole

Please do not operate the PLT-ET without reading and understanding this manual. Failure to follow instructions and safety procedures may cause serious injury to the operator and others.



Contents

Section	Page
1.0 Warnings and Precautions	4
2.0 PLT-ET Part Identifier	5
3.0 Visual Pre-Operation checklist	6
4.0 PLT-ET Maintenance and Servicing	6

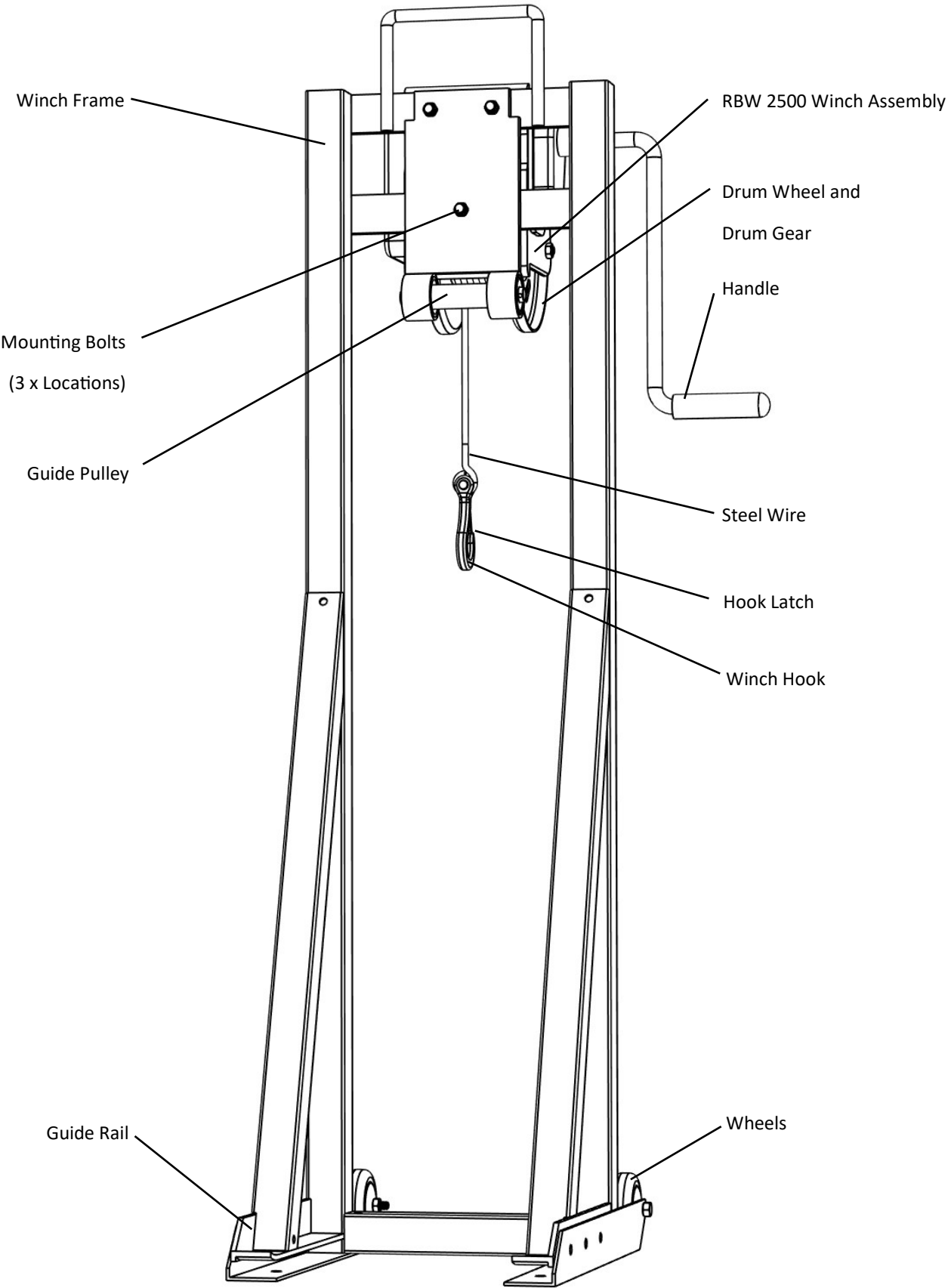


1.0 Warnings and Precautions

1. Do not use this winch under the influence of alcohol or drugs. Doing so may severely impair judgement and reaction times.
2. Wear personal protective equipment (PPE) such as steel cap boots, hard hat and gloves.
3. Keep work area clean and dry and avoid setting up the PLT-ET in crowded areas.
4. Dress safely. Avoid having loose clothing items or jewellery near the winch and wire as they can become entangled during operation.
5. Please refer to the appropriate EZYtilt pole installation guide for proper operation of raising or lowering of poles using the PLT-ET.
6. Always double check that the winch frame is secured to the pole correctly before operating.
7. Please perform a visual check and follow the checklist outlined in section 2 each time before operating the PLT-ET.
8. Please do not replace parts or service the PLT-ET yourself. If you require assistance or need to send your PLT-ET in for servicing, please contact our customer service department on info@ezypole.com
9. Don't stand under the pole when the winch is in operation.
10. Never touch the wire or hook while in tension.
11. Keep others at a safe distance while pole is being raised or lowered.



2.0 PLT-ET Part Identifier



3.0 Visual pre-operation checklist

It is recommended that this checklist is followed each time before operating the PLT-ET. If any part fails the visual checklist, discontinue the use of the PLT-ET immediately and contact our customer service department on info@ezypole.com.

COMPONENT	HAZARD	PASS	FAIL
WIRE	Thoroughly check the wire for frayed edges and/or breakages. Steel splinters while the wire is being handled is an indication of fraying and/or breakages.		
	Check the wire for kinks. Kinks may severely weaken the wire.		
	Check the hook and the latch for any signs of damage.		
WINCH	Mounting Bolts may loosen over time. Inspect each of the 3 mounting bolts holding the winch to the frame. Tighten if needed.		
	Crank the handle to wind and unwind the wire without any load attached to the winch and make sure it's fully operational.		
	Inspect the drum wheel and the drum gear for any signs of excessive wear and tear.		
WINCH FRAME	Check the winch frame for any signs of fatigue and rust.		
	Check the welds on the frame.		
	Spin the guide pulley and ensure it moves freely.		
	Locking pin is present. Do not operate without the locking pin.		
	Check the Guide Rails for any signs of fatigue/warping in the material.		

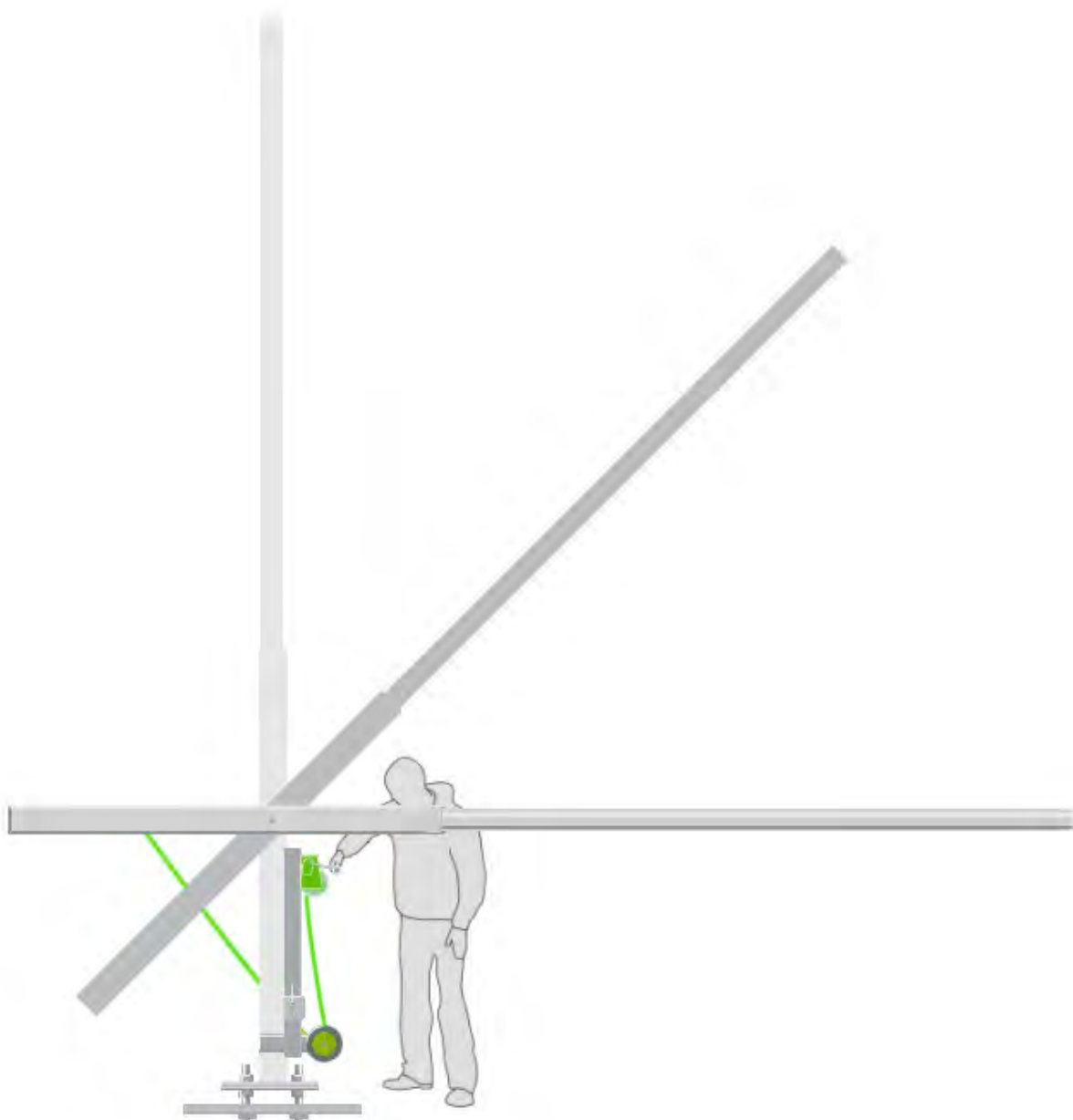
4.0 PLT-ET Maintenance and Servicing

Please do not attempt to fix or service your PLT-ET yourself. Using non-genuine parts may weaken the integrity of the winch and the winch frame. We strongly recommend that your PLT-ET is regularly checked and serviced by our service department for optimum performance.



EZYTILT POLE LOWERING TOOL STANDARD OPERATING PROCEDURE AND MAINTENANCE GUIDE

EW-HD2P-6.5M | EW-HD2P-8.0M | EW-TL-9.0/9.5M



Thank you for choosing EZYpole

If you have any questions, please consult our customer service team at Info@ezypole.com

EZYpole reserves the rights to amend and improve the product appearance , function and construction without any prior notification.



1. Installation and safety considerations

1.1 CAUTIONS

**FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR
PROPERTY DAMAGE AND WILL VOID WARRANTY**

To ensure safety, do not attempt to assemble the EZYWinch - Heavy Duty without reading and following all instructions

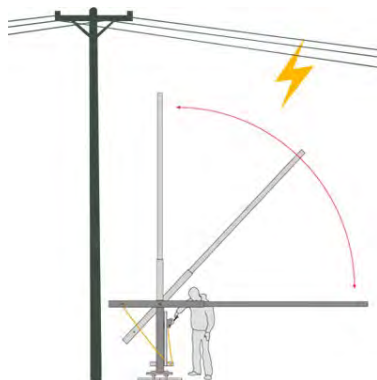
* To capable adults are recommended for this installation

Persons Required for Installation	
Installation Time	30-60 minutes

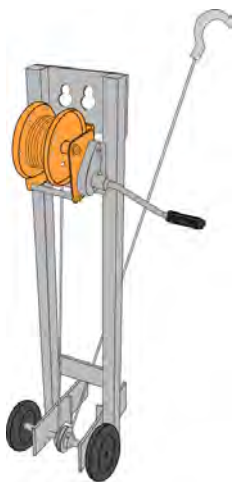
* Assemble the pole sections properly. Failure to do so could cause the pole to separate.

* This pole requires the use of a portable Lowering Winch (PLW) to safely lower & raise the pole. Serious injury & damage to property may result if the following operating procedure is not carefully followed.

* Do not attempt to raise and lower pole in windy conditions.



2. Tools

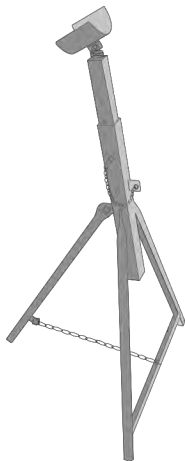


Pole Lowering Tool
Part No. PLT-HD



Step Ladder

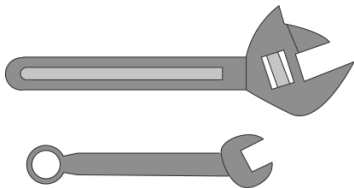
OR



Pole Stand Tripod
Part No. EZY-PS



Small Level



10" Wrench



Personal Protection
Equipment.
Safety footwear, eye pro-
tection, protective
gloves. High visibility shirt
or vest.



Multi Purpose Grease
(Optional)



High Strength



2. User Manual - Installing Pole

Step 1

Install 4 x 8.8 M20 nuts on the concrete base then use the spirit level to make them all the same height. Place 4 washers on top of nuts (Pole base) - Winch support mounts



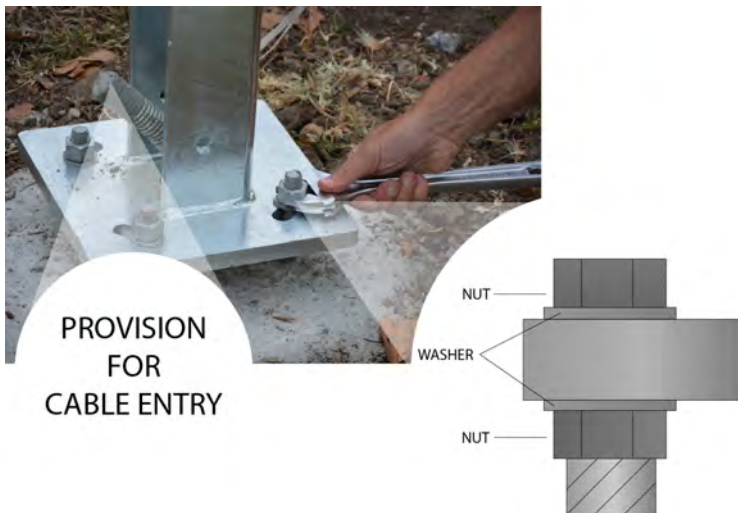
Step 2

Check desired lowering direction and place Winch Pole Base Section over 4 rag bolts.



Step 3

Place structural washer on base plate and hold down with M20 Structural Nut



Step 4

With the assistance of a second person, position the internal pole section inside the pole base with opening facing down. Then rest top section on a pole stand tripod.



Step 5

Grease the stainless steel hinge pin and insert to hold middle pole section into place.



Apply Loctite 263 on to the thread of the hinge pin and screw the shear nut on.



Fasten the shear nut until the nut breaks off.

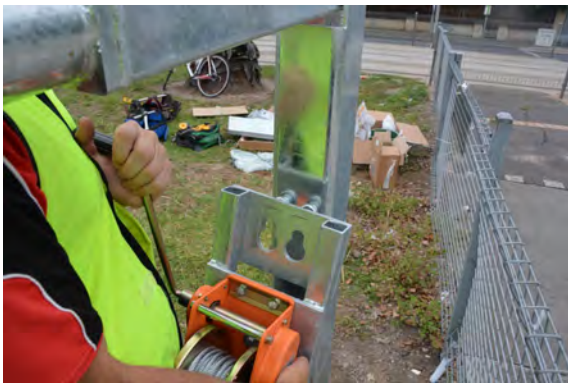


Step 6

Raising & Lowering. The locking plate should be in a lowered position before installing the pole lowering tool



Install pole lowering tool on to the support lugs as shown.



Step 7

Slide the locking plate into its upright position and tighten levers on both sides.



Use the pin and insert it into the hole located underneath the locking plate. Slide it all the way through to lock the plate in position. This ensures that the lowering tool is secured properly to the pole.

Important: If the pin does not go all the way through, the locking plate is not fully raised and the lowering tool is not completely secured to the pole.



Step 8

Unwind sufficient wire cable to prepare to attach to pole. Feed the wire cable through the pulley out towards the front of the lowering tool.



Step 9

Weave cable down through round pulley and hook onto pole bottom. Tighten winch to remove slack. Pole is now ready to be raised.



Step 10

Insert 40 mm long M20 bolt and tighten to lock pole into position using M20 nglock nut Remove winch cable and proceed with fitting bolt on the other side and tighten.



Step 11

Place hatch cover into position and lock hatch. Installation Complete.



For further technical support or installation advice please call or email EZYpole Australia

Email: info@ezypole.com Phone: +61 1300 137 52



4.0 Pole maintenance procedure

Routine pole maintenance and safety inspections are essential to ensure the structural integrity of the pole. Regular cleaning will ensure longevity and continued optimal operational condition of the pole.

We recommend inspecting and cleaning the pole every 12 months.

For poles in coastal regions, we recommend inspecting and cleaning the pole every 6 months.

Please follow these steps to ensure the pole/s is/are in perfect condition.

Use the same tools and safety equipment as outlined in section 2.0 - Tools and materials required.

To clean the pole, use warm soapy water in a bucket and a sponge or brush.

Base plate inspection:

To inspect the base plate, unscrew the Tek screw holding the base cover to the pole and remove it. Slide the cover up the pole and secure with a clamp.

- Use a level to check that the base plate and pole are still level.
- Make sure the nuts securing the base plate to the rag bolts are tight. Re-tighten if needed.

Pole inspection:

- Inspect the pole for corrosion, particularly at the base, where the pole is welded to the plate.
- Lower the pole following steps 6 through to 11 in reverse.
- If using a two piece pole, inspect the bolts securing the pole sections. Re-tighten if needed.
- Check the weld of the pole spigot for corrosion.
- For powder coated poles, check the finish for scratched and flaking paint.
- Raise the pole following steps 6 through to 11.

Cleaning of the pole:

For powder coated poles in coastal regions, we recommend cleaning the pole every 6 months.

- lower the pole following steps 6 through to 11 in reverse.
- Use warm soapy water in a bucket to clean the pole. Use a large sponge or a brush to apply the water and scrub off any dirt and grime. Clean the whole length of the pole
- Raise the pole following steps 6 through to 11.



For further technical support or installation advice please call or email EZYpole Australia

Email: info@ezypole.com Phone: +61 1300 137 52



**EZYWINCH POLE LOWERING TOOL
STANDARD OPERATING PROCEDURE
AND MAINTENANCE GUIDE**



Thank you for choosing EZYpole

Please do not operate the PLT-EW without reading and understanding this manual. Failure to follow instructions and safety procedures may cause serious injury to the operator and others.



Contents

Section	Page
1.0 Warnings and Precautions	4
2.0 PLT-EW Part Identifier	5
3.0 Visual Pre-Operation checklist	6
4.0 PLT-EW Maintenance and Servicing	6

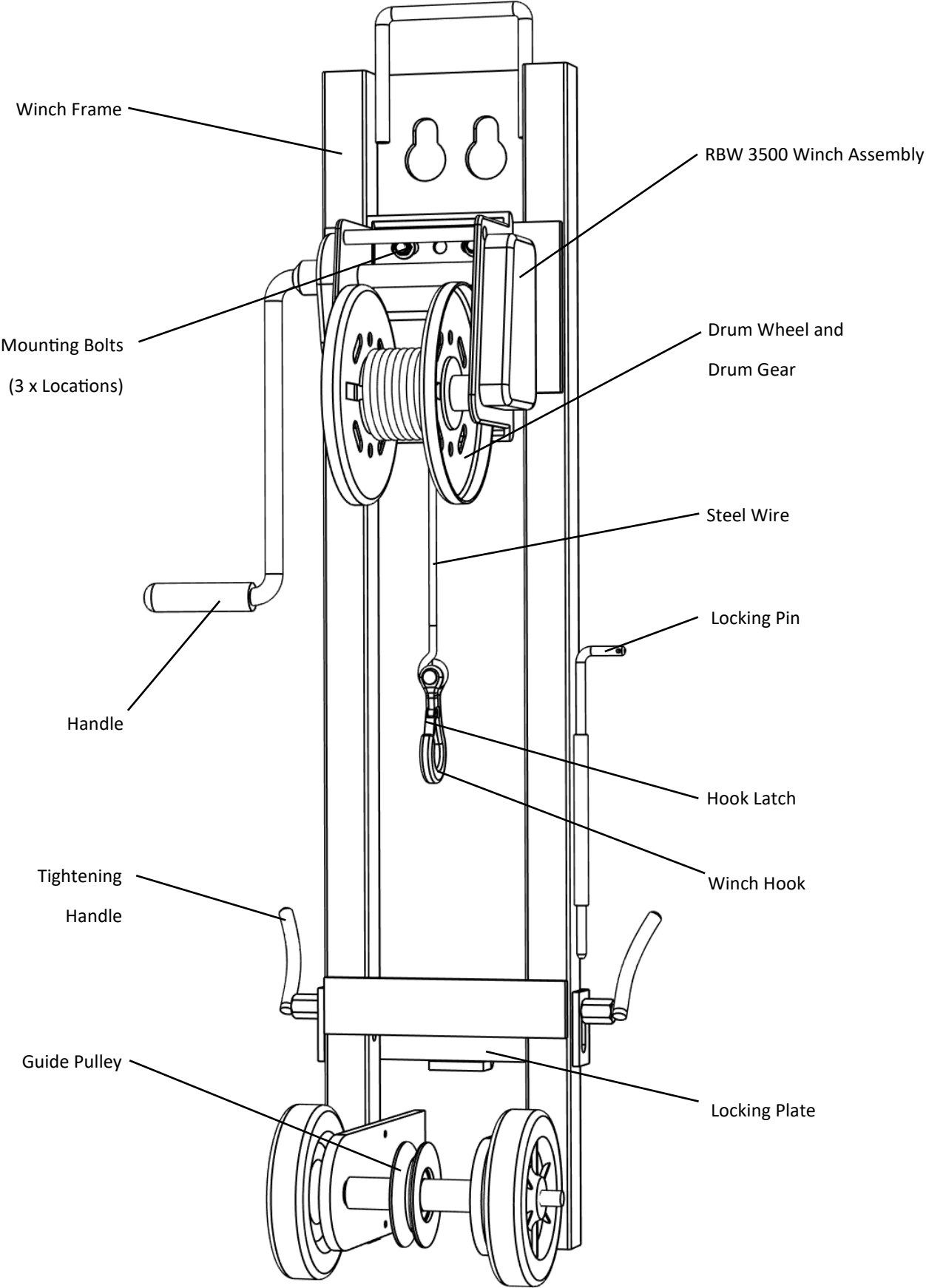


1.0 Warnings and Precautions

1. Do not use this winch under the influence of alcohol or drugs. Doing so may severely impair judgement and reaction times.
2. Wear personal protective equipment (PPE) such as steel cap boots, hard hat and gloves.
3. Keep work area clean and dry and avoid setting up the PLT-EW in crowded areas.
4. Dress safely. Avoid having loose clothing items or jewellery near the winch and wire as they can become entangled during operation.
5. Please refer to the appropriate EZYwinch pole installation guide for proper operation of raising or lowering of poles using the PLT-EW.
6. Always double check that the winch frame is secured to the pole correctly before operating.
7. Please perform a visual check and follow the checklist outlined in section 2 each time before operating the PLT-EW.
8. Please do not replace parts or service the PLT-EW yourself. If you require assistance or need to send your PLT-EW in for servicing, please contact our customer service department on info@ezypole.com
9. Don't stand under the pole when the winch is in operation.
10. Never touch the wire or hook while in tension.
11. Keep others at a safe distance while pole is being raised or lowered.

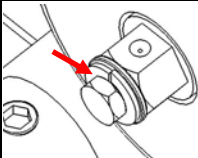


2.0 PLT-EW Part Identifier



3.0 Visual pre-operation checklist

It is recommended that this checklist is followed each time before operating the PLT-EW. If any part fails the visual checklist, discontinue the use of the PLT-EW immediately and contact our customer service department on info@ezypole.com.

COMPONENT	HAZARD	PASS	FAIL
WIRE	Thoroughly check the wire for frayed edges and/or breakages. Steel splinters while the wire is being handled is an indication of fraying and/or breakages.		
	Check the wire for kinks. Kinks may severely weaken the wire.		
	Check the hook and the latch for any signs of damage.		
WINCH	Mounting Bolts may loosen over time. Inspect each of the 3 mounting bolts holding the winch to the frame. Tighten if needed.		
	Remove the crank handle to check that the bolt is tightened up. The spring washer should be flattened out but do not overtighten. If it's overtightened, the winch brake shoes lock up and the crank handle will be unable to move.		
	Crank the handle to wind and unwind the wire without any load attached to the winch and make sure it's fully operational.		
	Inspect the drum wheel and the drum gear for any signs of excessive wear and tear.		
WINCH FRAME	Check the winch frame for any signs of fatigue and rust.		
	Check the welds on the frame.		
	Spin the guide pulley and ensure it moves freely.		
	Locking pin is present. Do not operate without the locking pin.		

4.0 PLT-EW Maintenance and Servicing

Please do not attempt to fix or service your PLT-EW yourself. Using non-genuine parts may weaken the integrity of the winch and the winch frame. We strongly recommend that your PLT-EW is regularly checked and serviced by our service department for optimum performance.



EZYFOOT FOUNDATION INSTALLATION GUIDE



Thank you for choosing EZYpole

If you have any questions, please consult our customer service team at Info@ezypole.com

EZYPole reserves the rights to amend and improve the product appearance , function and construction without any prior notification.



Installation and safety considerations

CAUTIONS

**FAILURE TO FOLLOW THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR
PROPERTY DAMAGE AND WILL VOID WARRANTY**

To ensure safety, do not attempt to assemble the Ezyfoot - Foundation without reading and following all instructions

* Two capable adults are recommended for this installation

Persons Required for Installation	
Installation Time	30-60 minutes

* IMPORTANT NOTE: Ezypole accepts no responsibility for footing details given. All footing details are indicative only. Footing sizes will vary according to a number of factors including soil conditions, wind loading and terrain categories. In all instances it is the responsibility of the installer to obtain engineers computations to determine the

Tools and materials required



Electric or petrol jackhammer,
45 Joules minimum impact
energy,



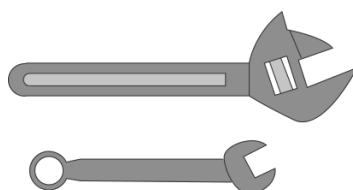
Impact driver with 3/8 Hex.
Bit for type 14 gauges— Tek
crew 5/16 Hex



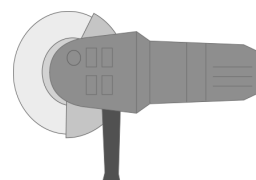
Customized jackhammer
Driver to suit 30mm Hex-Shaft



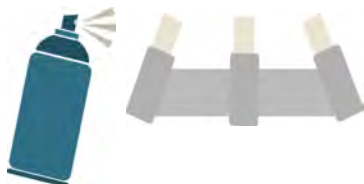
Sledge hammer



10" Wrench



Grinder



Cold gal. Zinc rich touch paint



Tape measure



Generator/power leads



Small Level



Personal Protection Equipment.

Safety footwear, heavy protec-
tion,

Eye protection (goggles) insulat-
ed

Protective gloves. High visibility

EZYfoot Foundation installation process



Step 1

Dig out a shallow section where the EZYfoot Foundation will be installed.



Step 2

Place the EZYfoot Foundation into the assigned spot.

To assist with levelling, and to secure the EZYfoot in its position, place soft rubber padding onto the top and use a jackhammer to compress the soil underneath.



Step 3

Use a spirit level to make sure the EZYfoot Foundation is level before proceeding to the next step.

Use a jackhammer to assist with Levelling.

EZYfoot Foundation installation process



Step 4

Insert 4 galvanised pipes into the foundation, as shown in the picture.



Step 5

Use the jackhammer to drive 3 poles half-way down into the ground.



Step 6

Place a picket driver into the middle of the pipe and using the jackhammer, continue to drive down all pipes all the way.

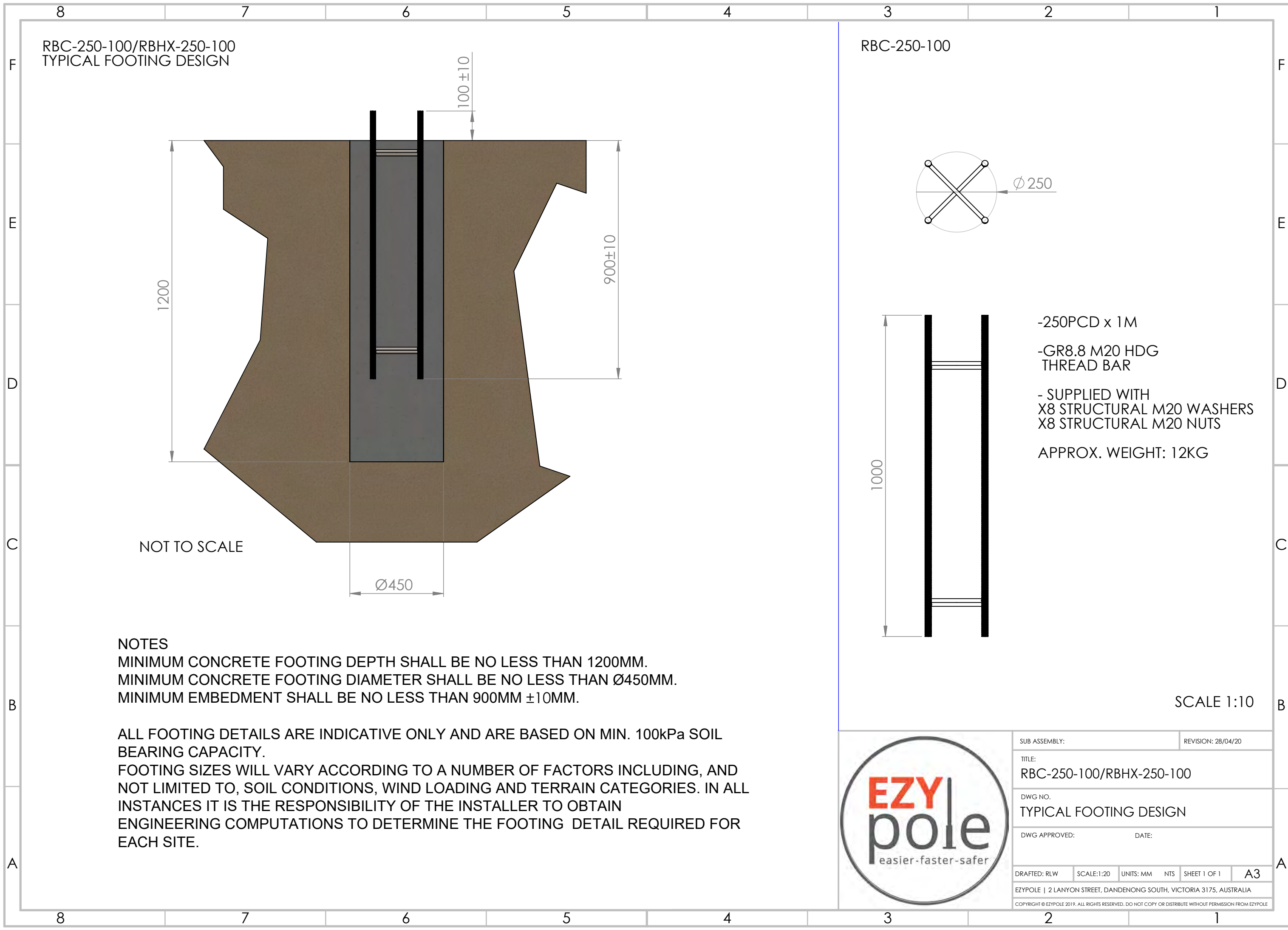
Use an angle grinder to cut/clean any remaining pipe extruding from the EZYfoot Foundation.

The installation is now complete.

EZYPOLE RBC/HX SERIES INSTALLATION GUIDE

RBC-250-100
RBC-250-150
RBC-300-100
RBC-300-150
RBC-350-100
RBC-350-150
RBHX-250-100
RBHX-250-150
RBHX-300-100
RBHX-300-150





RPS MODULAR KIT

Self sufficient, pole mounted solar security solution.

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INVENTORY:

- 4 × Adjustable screw jack legs
- 1 × Base frame
- 1 × Powder-coated round pole (2-piece)
- 1 × Enclosure with enclosure sleeve attached
- 1 × Hinged pole sleeve with 4 socket-head bolts
- 1 × Solar panel with bracket sleeve
- 8 × Threaded rods
- 4 × M32 nuts
- 2 × Base plates with eyelets
- 2 × Guy wires with turnbuckles
- 24 × Concrete weights

TOOLS REQUIRED:

- Adjustable spanner (shifter)
- 18 mm socket and ratchet
- Spirit level

STEP 1: POSITION THE BASE FRAME

- Position the base frame in the desired location.
- Install the 8 threaded rods into the base frame and ensure they are securely fitted.

Important: Determine the direction in which the pole will hinge before proceeding.



STEP 2: INSTALL ADJUSTABLE LEGS

- Insert the adjustable screw jack legs into each corner of the base frame.
- Adjust each leg to achieve the required height and extension.



STEP 3: LEVEL THE BASE

- Using a spirit level, adjust the screw jack legs until the base frame is level in all directions.
- Ensure the forklift entry points are not carrying any load.
- Once level, tighten the locking wing nuts to secure each leg in position.



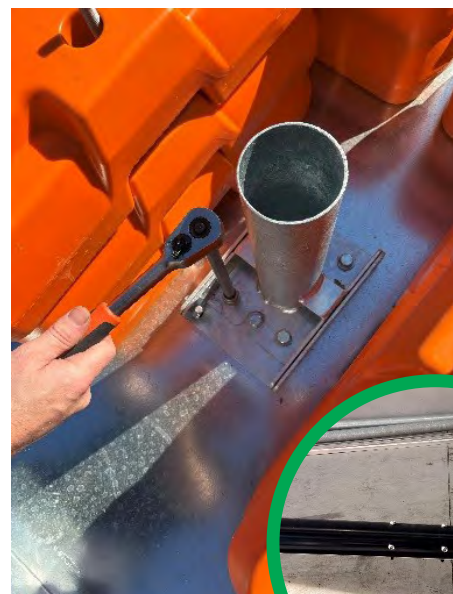
STEP 4: INSTALL INITIAL WEIGHTS

- Identify the pole hinge side of the base.
- Leave the hinge side free of concrete ballast weights and load the remaining three sides with weights.
- Use the remaining blocks as a support for the pole section during assembly.



STEP 5: INSTALL POLE SECTIONS

- Remove the four bolts securing the hinged pole sleeve to the base and carefully lower the sleeve.
- Insert the lower pole section into the sleeve and secure it using the grub screws.
- Join the upper pole section using the steel coupler and tighten all grub screws securely.
- Verify that both pole sections are fully seated and aligned.



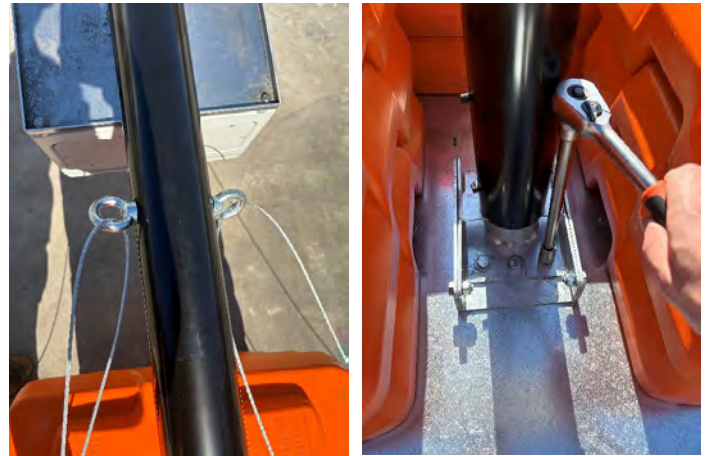
STEP 6: INSTALL ENCLOSURE AND SOLAR PANEL BRACKET

- Slide the enclosure sleeve assembly onto the pole and position it at the required height.
- Orient the enclosure correctly and tighten all grub screws.
- Install the solar panel bracket sleeve above the enclosure and orient it towards **true north**.
- Tighten all grub screws securely.
- Open the enclosure and switch the breakers to the **ON** position.
- Connect the solar panel cable to the external enclosure connection.



STEP 7: ATTACH GUY WIRES AND RAISE THE POLE

- Attach the two guy wires to the eyelets located on either side of the pole.
- Using two people, carefully raise the pole into the vertical position.
- Maintain control of the pole at all times during lifting.
- Once the pole is fully upright, secure the hinged pole sleeve by tightening the four base bolts.



STEP 8: INSTALL REMAINING WEIGHTS AND TENSION GUY WIRES

- Install the remaining concrete weights.
- Fit the washers and tighten all nuts on the threaded rods.
- Attach the guy wire turnbuckles to the base eyelets.
- Adjust the turnbuckles evenly until the pole is plumb and the guy wires are tensioned correctly.
- Slide the orange protective covers over the turnbuckles and secure them with the retaining bolts.



STEP 9: COMMISSIONING AND FINAL CHECKS

Using the VictronConnect app, confirm:

- Battery voltage is within normal operating range
- Solar charging input is active
- Load current is operating correctly
- No system alarms or faults are present

Perform a final inspection to ensure:

- All fasteners are tightened
- Guy wires are correctly tensioned
- Concrete weights are securely positioned
- Solar panel orientation is correct
- Enclosure doors are closed and secured



YOUR INSTALL IS COMPLETE