



Harness the Power of the Sun

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SPTT-4200 Tower Trailer User's Guide

Basic Operation

Positioning

Tongue jack wheel stand should be used if unit is not attached to tow vehicle. Chock wheels before detaching from tow vehicle.

Fully extend jack stands. Jack stands should be used anytime the unit is not attached to a tow vehicle.

 **Chock wheels before detaching from vehicle.**

Raising Tower

1) Attach guy wires to the shackles, located on the top section of the tower. Note, the double-guy wire must be attached to the shackle on the top of the tower.

2) Install camera or other monitoring equipment securely to the bracket provided on the top tower section.

3) Using the level located on the trailer and the four (4) corner swivel jacks, level the trailer.

 **Check for overhead wires and obstructions.**

 **Keep hands clear of lifting mechanism at all times.**

5) Using the winch located on the trailer frame, below the solar panels, raise the tower into the vertical position. Secure the tower with the two (2) locking pins located on the mast.

6) Using the winch located on the tower, raise the tower until all sections are fully extended. The orange tube should be above the Tower Safety Stop.

7) Connect guy wires to the eyebolts located on the four (4) corner swivel jack extension frame. Using the turn-buckles, gradually and evenly tighten all four (4) guy wires in an opposing pattern as you would tighten lug nuts on a car tire.

Caution: Do not overtighten any of the wires. This could bend the tower.

General Maintenance

- Check battery fluid level once each month. Add distilled water if level is below indicating ring. (N/A Gel-Cell batteries)

 **Avoid contact with battery fluid at all times. Should contact occur, flush with water and seek medical attention immediately.**

 **No smoking or open flames near battery compartment!**

- Lubricate pivot points and tongue jack screw shafts (lube hole on outer tube near handle) every 3 months. Use a quality grade of chain lube.
- Check tire pressure during regular maintenance. Correct pressure is 45psi (310kPa).
- Clean camera lens and solar panels periodically as required.

Transporting Checklist

- Battery fluid level full in all battery cells.
- Close and latch all battery compartment covers.
- Battery compartments locked.
- Solar panels clean.
- Tower secured by Tower Transport Locking Latch.
- All swivel jacks retracted and in travel position.
- Integrity of coupler & safety chains.
- Coupler locked onto tow vehicle.
- Tongue jack retracted and locked in horizontal position.
- Safety chains installed and crisscrossed under tongue.
- Stop and taillights connected and tested.
- Tire pressure reads 45psi (310kPa).

Teardown Procedure

NOTE: The Tower Safety Stop rope (the only rope on the tower unit) must be pulled and held while lowering the tower, to prevent damage to the tower.

- 1) Switch Main Power "Off".
- 2) Loosen the guy wires until slack, then detach from eyebolts.
- 3) Hold Tower Safety Stop in released position.
- 4) Using winch, lower tower until all sections are fully contracted as indicated by orange alignment marks near base of tower.
- 5) Lower tower into horizontal travel position.
- 6) Engage Tower Transport Locking Latch (front of trailer).
- 7) Detach guy wires from shackles.
- 8) Stow each guy wire in its corresponding battery box.
- 9) Remove the Power Winch Control Cable and stow in battery box (if so equipped).
- 10) Close, latch and lock all battery boxes.



ISO 9001:2008
CERTIFICATION

For complete operation and maintenance manuals as well as diagrams, software updates and more please visit Product Support at:

www.solartechology.com

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