

OSPREY PowerRack™

Installation Best Practices

Please make note of the following Installation Best Practices when performing the assembly and installation of the all-new, modular OSPREY PowerRack ground mount solar racking system.

1. The pre-punched pin hole on the internal and external vertical rear legs is the cut line for a manual cut in the field when installing lower tilt angles arrays.
2. Run a string line on top of the front legs ensuring the array is level using a bubble level.
3. To set the rear height, run a string line from the top of the rear leg to the top of the front leg and use an angle finder to set tilt angle.
4. Install center lateral bolt into the telescoping brace after array has been adjusted for tilt and leveled onsite.
5. To ensure a tight fit, when inserting the swage end into the E/W round beam, it is recommended to maintain vertical alignment of the beam slots and then insert the carriage bolt into the hole maintaining carriage bolt head on top.
6. Ensure E/W beam is fully inserted prior to inserting the carriage bolt.
7. When squaring the array, first confirm cantilevers are of equal length on the E/W beam then ensure diagonal measurement between opposing top and bottom corners of E/W beam are within 1".
8. Mark E/W beam with optimal purlin spacing required by module specifications.



9. Ensure exterior purlins are square using a framing square or the diagonal method.
10. Install exterior purlins first then run a string line and install remaining purlins ensuring they are level with the string line.
11. Prior to installing modules, confirm tilt angle using an angle finder at each foundation set. Use Power Adjustable Legs to fine tune tilt angle and front edge height.
12. Install but do not tension all cable braces prior to installing anchors
13. Install all anchors then tighten cable braces.
14. Once array is assembled without modules, ensure all hardware is torqued to spec (3/8" fasteners to 26 ft-lbs, 1/2" fasteners to 64 ft-lbs)
15. Install modules starting from the bottom to the top and ensure that there is a 1/2" gap between modules.

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