



NUANCE ENERGY™
Revolutionary Solar Racking Structures



OSPREY PowerJack™ INSTRUCTIONAL GUIDE

Nuance Energy's patented OSPREY PowerJack™ is a multi-purpose construction tool and powerful jack used to pull and measure in real time soil conditions, the uplift "load tension test" capacity of earth anchors. Proprietary earth anchors are the foundations that secure the patented OSPREY PowerRack ground mount solar racking system to the ground during installation. The OSPREY PowerJack may also be used to pull earth anchor drive rods from tough soil conditions before anchor testing is performed.

Included Parts

- OSPREY PowerJack™, Swivel Shoe Plate and Drive Rod Plate
- Pivot Bolt with 3/4" Head and Pivot Bolt Nut 3/4".
- (2) 1/4" 20 Bolts for Mounting Scale.
- 13/16" Deep Nut attached to shaft of OSPREY PowerJack.
- 5,000lbs Pre-calibrated S-Beam Load Cell with Eye Bolts.
- LCD Display with (3) AA Batteries (batteries included).



Recommended PPE for Safe Operation

- Follow OSHA requirements and wear a Hard Hat.
- Gloves, Safety Glass Wear and Work Boots.

Recommended Tools

- Deep 13/16" Impact Socket.
- High Torque Impact Drill with 1/2" Drive.



Recommended Best Practices

- Use High Torque Impact Gun w/ 1/2" Drive (Figure 3).
- Use pivot action of OSPREY PowerJack Swivel Shoe Plate to match outward angle in which Anchor was driven into ground.
- Use OSPREY PowerJack's Pull Plate with Magnet (face down) to remove an Anchor Drive Rod. Pull Plate will shape after first use.
- Once first Anchor pull test is achieved release tension on Cable by reversing the torque setting on the Impact Drill, then slide the Wedge Grip down Cable onto the OSPREY PowerRack Shoe Plate. Repeat on all Anchor tests.
- Place OSPREY PowerJack steel shelf under an Osprey PowerRack E/W Beam to raise the front end if you need to level any soil under an OSPREY PowerRack Shoe Plate.
- Recommended to calibrate S-Beam annually.

Assembly Required

- Step 1:** Insert (3) AA batteries (included) and mount the LCD Display Indicator (optional) to top Bracket (Figure 1).
Step 2: Remove Pivot Pin from Swivel Shoe Plate. Insert OSPREY PowerJack drop leg. Insert Pivot Bolt. Tighten with 3/4" Socket.
Step 3: Connect Two Turn Buckles (included) to I Bolts on S-Beam Load Cell (Figure 2).
Step 4: Slide top turn buckle into Hook on OSPREY PowerJack (Figure 2).
Step 5: Connect 6' cord to back of LCD Display. Turn on LCD Display and zero out Scale before use.
Step 6: Add paper wad or rubber to 13/16" Deep Socket to lighten pounding force of Impact Drill. This significantly cuts down on sound during use.

Warranty: One (1) Year Warranty from date of purchase.

