

# MAINTENANCE INSTRUCTIONS

## MODEL No.1900 POWR-NET<sup>®</sup> OVERHEAD SUPPORTED VOLLEYBALL SYSTEM

Porter recommends a maintenance inspection take place at least once a year by a Porter Certified Inspector, using the attached check list. Porter recommends the same check list be used as a guide for additional inspections by facility personnel or operators every 6 months. Any abnormal movement or sound during operation is cause for an immediate and thorough inspection. The annual inspection by a Porter Certified Inspector is required to maintain the extended limited warranty.

1. **General** - Make certain the Porter winch control device (key switch, Powr-Touch or Sportsonic II) is not substituted and is located within full view (but not beneath) the overhead volleyball system. Check the walls in close proximity to the system for any type of protrusion that may interfere with the raising or lowering of the unit (i.e., ducts, backstops, etc.).
2. **Electric winches**—should also be periodically inspected for proper operation of the limit switch assembly and control system. Faulty electrical components could create serious hazards. The winches should also be inspected for possible hairline cracks in the cable drum. If cracks are visible, do not use until unit is replaced or repaired. If winch is belt driven, inspect the small and large belt drive pulleys, making certain they are properly secured to each shaft, and rotate concentrically. Also, check anchorage of winch to either the support pipe or wall; and loose anchorage should be repaired immediately. If the winch is gear driven, make sure the gear is not showing excessive signs of wear. Note any excessive noise as well as checking the limits are properly set to ensure complete stop before backstop comes within a safe distance of any obstructions. Make sure cable is properly spooling to ensure the limits will properly engage. The cable should evenly wrap the cable drum until the entire cable drum is wrapped or the limits are reached before the cable wraps on top of itself.
3. **Inspect Hoisting Cable** – Check cable for kinking and fraying. The best method is to take an oily or grease-filled rag and rub along the cable. The rag may hit broken strands of cable and snag. If the snags appear approximately ten times in a ten (10) foot length of cable, the cable should be replaced. This procedure not only checks the cable, but lubricates it for longer wear. Also, make certain the cable wraps evenly on the drum. Refer to the instructions in this manual for correcting an uneven cable wrap. Ensure the cable is free of any interferences which may be present along it's route. Ensure cable connections are secure and tight.

**Note** – The grinding noise of the hoist cable against the strands already wrapped on the winch-hoisting drum is normal with this hoist system.

4. **Inspect All Pulleys** – It is advisable to check all pulleys, checking the sheave bearing and shaft for excessive wear, replacing if necessary. Lubricate bearing at assembly.
5. **Inspect Folding Brace Hinge** – Check power lock hinge is properly folding and connections are secure. Ensure rivets installed to insure brace is secure. Hinge should be all the way locked so that a force on the back of the system does not cause the unit to start folding. Check that braces do not have any signs of deflecting.
6. **Inspect Structure Fittings** – Visually inspect clamps and support fittings for hairline cracks, loose bolts and corrosion, replacing defective parts as required. All fittings should be tightened occasionally to keep system rigid. Check all hinge fittings, tightening and lubricating hinge bolt as required. Replace worn bolts as required, utilizing the proper grade bolt and nut type as listed in the Fittings Parts List in this manual.

7. **Inspect Structure** – Visually inspect structure pipes for any sign of abnormal deflection or structural cracks.
8. **Volleyball Net Height Adjustment Feature**—Periodically (at least annually, depending on usage) lubricate the plated inside telescoping tube and height adjustment screw-rod with a aerosol spray type dry film lubricant. Run net height adjuster up and down (full stroke) several times, and wipe the telescoping tube dry to clean any dust or residue build-up. Spray the plated inside telescoping tube once again with a dry film lubricant. NOTE – protect the floor with a drop cloth to prevent a slippery build-up on the gymnasium floor.
9. **Volleyball Net Assembly**— Inspect the condition of the net and tension cable assembly. If there is evidence of fraying or wear, correct the condition by repairing or replacing the component.
10. **Safety Straps** – Check Saf-Strap to make sure it retracts properly into the housing unit. Also inspect strap tie-off on the equipment, ensuring it is securely attached. It is recommended that a safety lock be used on all systems. Consult factory for details if this unit was not included on the original installation. Ensure saf-strap warning label is not exposed as this indicates the strap has caught a load and replacement may be required.
11. **Mast** – Ensure that the system mast does not have any un-expected deformations or surface defects.
12. **Mast and Brace Hangers** – Check that mast hinges are rotating properly when system is folding. Check that mast hinge hardware is present and tight. Check that each brace connection is properly rotating and that the hardware securing these hangers are secure. Note any excessive wear
13. **Electrical System** – Check that the key switch or electrical system is working properly in both directions.
14. **Judges Stand** (if present) - Ensure that the judges stand is secured to the mast with all hardware. Confirm the ladder works properly and that platform is stable. Note any alterations to the judges stand on the inspection report.
15. **Other Equipment** – Other equipment such as height adjusters, winches, shot clocks, and electrical systems may have their own maintenance check lists to perform.



# CEILING SUSPENDED VOLLEYBALL INSPECTION CHECK-

Please refer to previous pages for details on inspections.  
 This checklist is to assist you in your inspection program.  
 As you are making the inspection, enter "S" for satisfactory, or "R" for repair and replace.

| INSPECT ALL ITEMS FOR EACH BACKSTOP             |    |    |    |    |    |    |    |    |     |     |     |
|---|----|----|----|----|----|----|----|----|-----|-----|-----|
| <b>WINCH</b>                                    |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>HOISTING CABLE</b>                           |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>PULLEYS</b>                                  |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>FOLDING BRACE HINGE</b>                      |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>STRUCTURAL FITTINGS</b>                      |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>STRUCTURE</b>                                |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>VOLLEYBALL NET HEIGHT ADJUSTMENT FEATURE</b> |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>VOLLEYBALL NET ASSEMBLY</b>                  |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>SAFETY STRAPS</b>                            |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>MAST</b>                                     |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>MAST AND BRACE HANGERS</b>                   |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>ELECTRICAL SYSTEMS</b>                       |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>JUDGES STAND</b>                             |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |
| <b>OTHER EQUIPMENT</b>                          |    |    |    |    |    |    |    |    |     |     |     |
| #1  | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | #12 |
|   |    |    |    |    |    |    |    |    |     |     |     |