



POWERTRAK INSTALLATION INSTRUCTIONS

PowerTrak is normally shipped in sections and must be field assembled, most easily accomplished with PowerTrak laying on the floor or other smooth support adjacent to installation site with the flexing direction facing upward. Splice PowerTrak sections together with fasteners supplied. The trak joints will assemble much like a tongue and groove with the kidney-shaped slots clevissed between the outermost link plates.

1. Position trak at the installation site with carrier hole pattern (bar carriers only) or compartment partitions oriented to match the payload connection requirements and flexing direction facing upward.
2. Coil two sections of trak so the links to be joined are outside the coil and meet at the floor. NOTE: This method will compensate for crown which is a positive camber designed into PowerTrak to provide longer life and allow greater unsupported lengths without initial sag. Large PowerTraks or lengths greater than 20 feet may be difficult to handle in this manner. See steps 6 & 7 below.
3. Block each coil to prevent unwinding.
4. Install fasteners at joint; pin and retaining ring or bushing bolt and locknut are typical.
5. Carefully allow PowerTrak to uncoil; free rolling can be dangerous as well as damaging to the PowerTrak. If no other trak sections are required, proceed to Step 8.

Use the following procedure when joining three or more PowerTrak sections, when overall length is greater than 20', or when heavy duty trak makes coiled sections difficult to handle.

6. Lay the PowerTrak sections as they would be joined end to end, adjacent to the installation site with the carrier hole pattern (bar carriers only) or compartment partitions oriented to match the payload connection requirements and flexing direction facing upward.
7. Install fasteners at the central (pivot) pin location of each side chain. Due to the crown feature of PowerTrak, the two outer pin positions at each joint cannot be installed at this time.

IMPORTANT: Mark each joint so outer pins can be installed later.

8. Position PowerTrak on final support surface or in guide tray. Secure fixed end mounting brackets with Grade 5 bolts or better.
9. Install cables/hoses as required; for two or more layers, install the layer nearest the floor first, working upward.
 - A. Cables/hoses must be fed through the entire length of trak when carrier options are welded channel or solid bar type. When convenient, this method of installation is acceptable for any carrier option having trak lengths or 20 feet or less. Do not attach cable/hose connectors before installing into powerTrak unless it is certain the connectors will pass through the carriers holes or openings.
 - B. When PowerTrak lengths exceed 20 feet, it is recommended the upper portion of all carriers, split or rod type, be removed and set immediately alongside of trak. Cables/hoses are then easily set into their corresponding compartments. In this way, connectors can be attached before installation into trak. Binding problems created by end feeding into carriers is eliminated. Mid-length splices are also possible with this method.

CAUTION: Cables/hoses must be free of kinks and must not be twisted. Multiple conductor cables with internal twists or kinks may result in rapid conductor failure. A quality SO cable is recommended.

10. Cable/hose jacket lubricant will reduce friction and improve wear rate during PowerTrak operation. Consult your cable/hose supplier.
11. Reassemble the upper portion of all carriers.
12. Position the movable machine's towing arm over PowerTrak near the moving end mounting brackets.
13. Loop the moving end of PowerTrak over the lower section and fasten to the tow arm with Grade 5 bolts or better.
14. The cables/hoses must be adjusted to prevent kinking and premature wear. They must lay within the PowerTrak carrier compartment, particularly through the loop section, in a relaxed condition and follow a straight path from the moving end to the fixed end. Do not pull cables/hoses tightly against carriers in the loop; allow clearance all around.
15. Secure all cables/hoses at both ends of the PowerTrak, adjacent to the mounting brackets, to prevent any movement relative to the PowerTrak.
16. Complete all cable/hose terminations.
17. Operate the machine and PowerTrak slowly toward the fixed end to the extreme point of travel.
18. (Use this step only if steps 6 & 7, above, were used). At each location marked in Step 7, stop the machine just as the loop begins to cross over the joint so the links are flexed only slightly. Install the outer pin fasteners of each side of chain. Continue machine travel, stopping at each marked joint and installing fasteners.
19. Operate the machine and PowerTrak slowly throughout the entire travel stroke. The moving end and upper trak section must be plum with the lower trak section at all times. The PowerTrak must be parallel with the machine travel motion. A metal guide tray may be used to retain and guide the lower section of PowerTrak, particularly for long lengths.
20. Check for binding of link joints during flexing. **Smooth operation is essential.**
21. Please contact your nearest Gleason Reel representative for solutions to problems or questions.



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