

# **Manual Height-Adjustable Storage Rack**

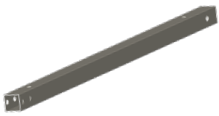
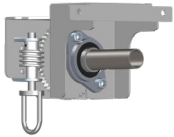
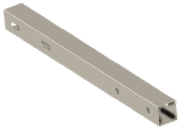
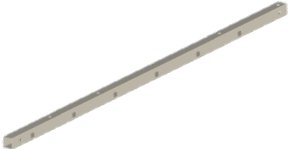
## **Installation Guide**

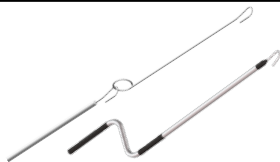
**- 3X6 Foot Steel frame version -**



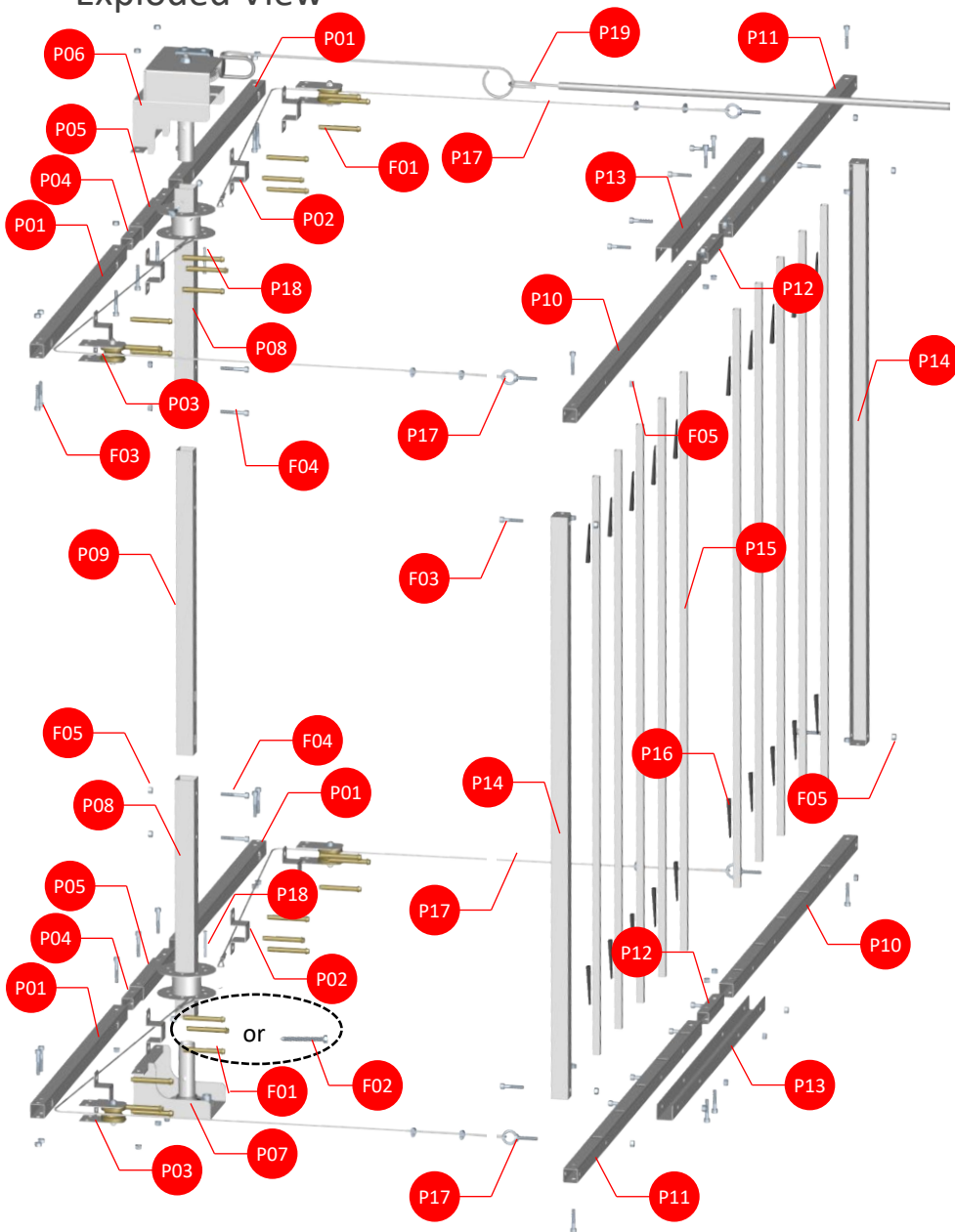
**Please read carefully before use**

## • Accessories List

| NO. | Picture                                                                             | QTY | NO. | Picture                                                                             | QTY |
|-----|-------------------------------------------------------------------------------------|-----|-----|-------------------------------------------------------------------------------------|-----|
| P01 |    | 4   | P02 |    | 8   |
| P03 |    | 4   | P04 |    | 2   |
| P05 |    | 2   | P06 |    | 1   |
| P07 |    | 1   | P08 |    | 2   |
| P09 |    | 1   | P10 |   | 2   |
| P11 |  | 2   | P12 |  | 2   |
| P13 |  | 2   | P14 |  | 2   |

| NO. | Picture                                                                                    | QTY   | NO. | Picture                                                                                    | QTY |
|-----|--------------------------------------------------------------------------------------------|-------|-----|--------------------------------------------------------------------------------------------|-----|
| P15 |           | 10    | P16 |           | 20  |
| P17 |           | 4     | P18 |           | 2   |
| P19 |           | 1+1+1 | F01 |           | 24  |
| F02 |           | 24    | F03 | M8-45<br> | 36  |
| F04 | M8-50<br> | 6     | F05 |           | 46  |
| T01 |         | 1     | T02 |         | 1   |
| T03 |         | 1     | T04 |         | 1   |

# • Exploded View



- **Ceiling Bracket Installation**

Step 1: Use a ruler and a pen to measure and mark the positions for the bracket mounting holes on the ceiling. Then, use a power tool to drill holes at the marked locations to install expansion bolts or self-tapping screws.



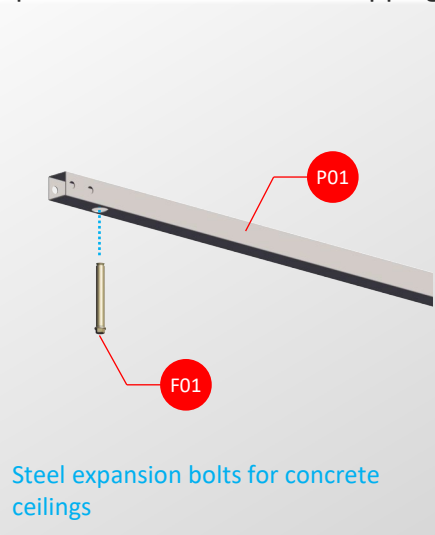
Concrete ceiling



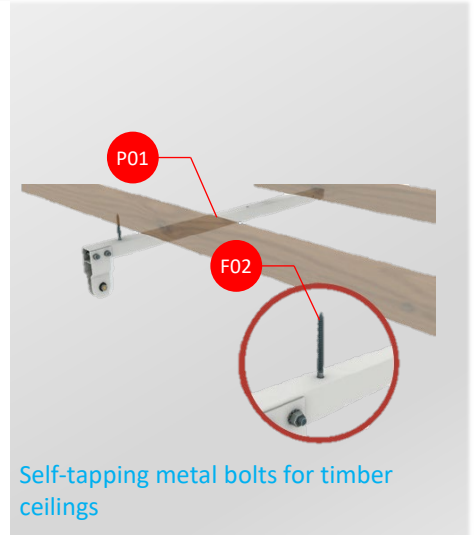
Timber ceilings



Step 2: Secure the ceiling front bracket P01 to the top of the ceiling using expansion bolts F01 or self-tapping screws F02.

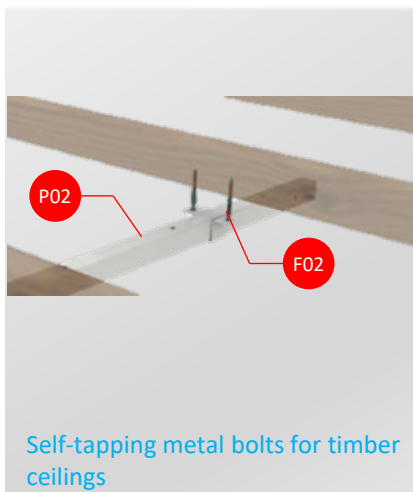
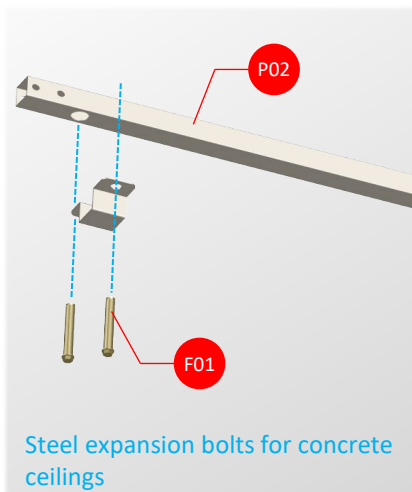


Steel expansion bolts for concrete ceilings

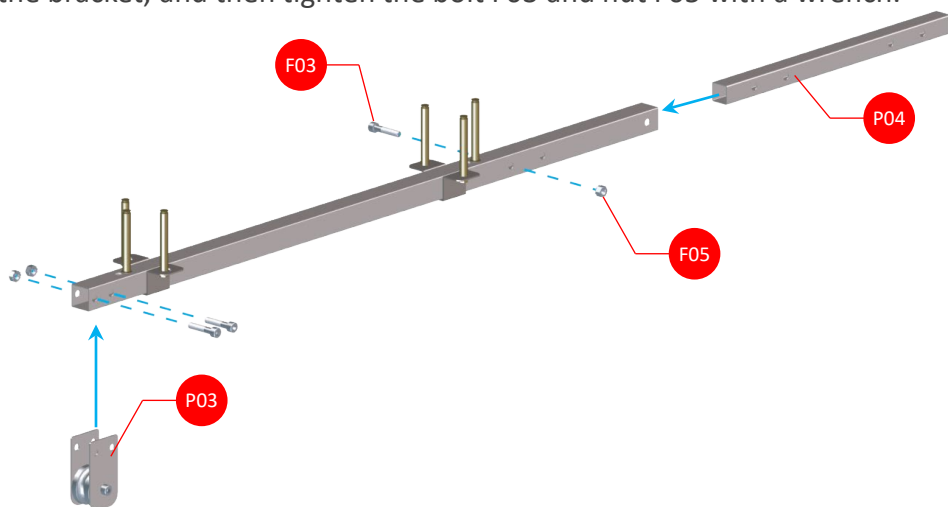


Self-tapping metal bolts for timber ceilings

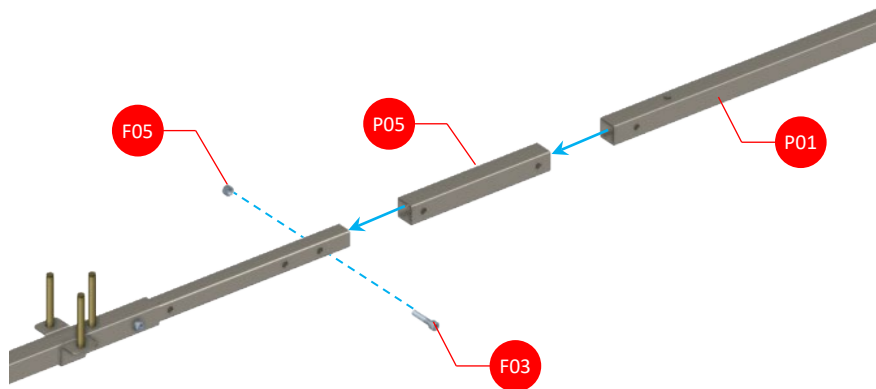
Step 3: Secure the bracket to the top of the ceiling using U-clamps P02 and expansion bolts F01 or self-tapping screws F02.



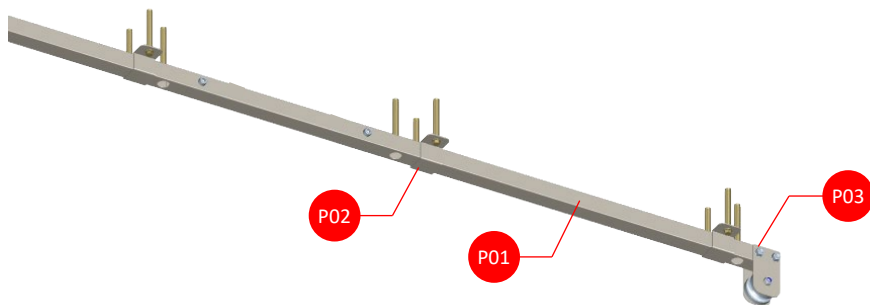
Step 4: Mount the pulley assembly P03 to the outer side of the front bracket. Insert the intermediate connecting pipe P04 into the inner tube of the bracket, and then tighten the bolt F03 and nut F05 with a wrench.



Step 5: Slide the sleeve P05 and the bracket P01 onto the connecting pipe of the front bracket, and then tighten the bolt F03 and nut F05 with a wrench.



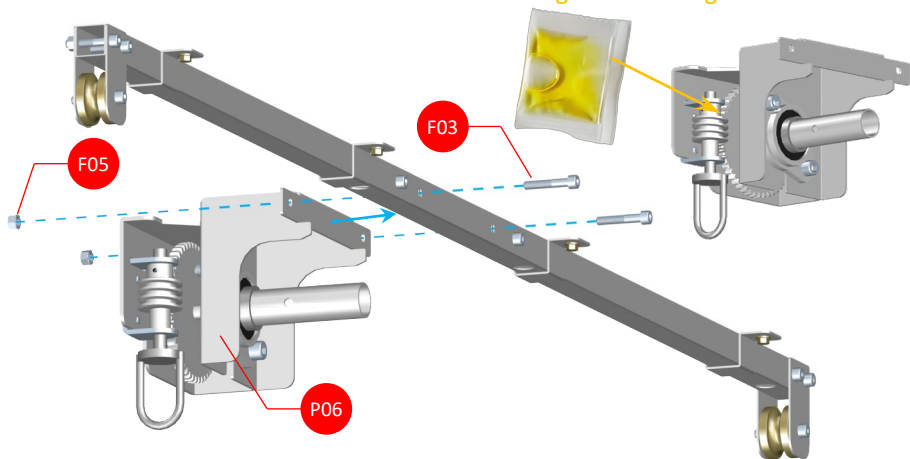
Step 6: Follow steps 2-3 to secure the rear bracket P01 and U-clamp P02 to the ceiling using expansion bolts F01. Then, follow step 4 to mount the pulley assembly P03 to the rear bracket and tighten bolt F02 and nut F04 with a wrench, completing the installation of the rear bracket. Repeat steps 2-6 to install another set of ceiling mounting brackets.



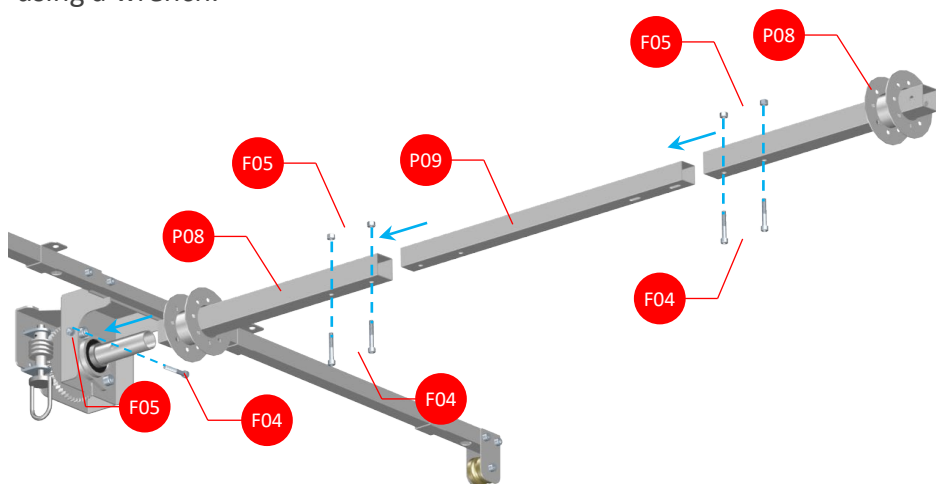
## • Manual Hoist Winch System Installation

Step 1: Slide the gear drive module P06, which has been lubricated, onto the mounting bolts, and secure it with nuts using a wrench.

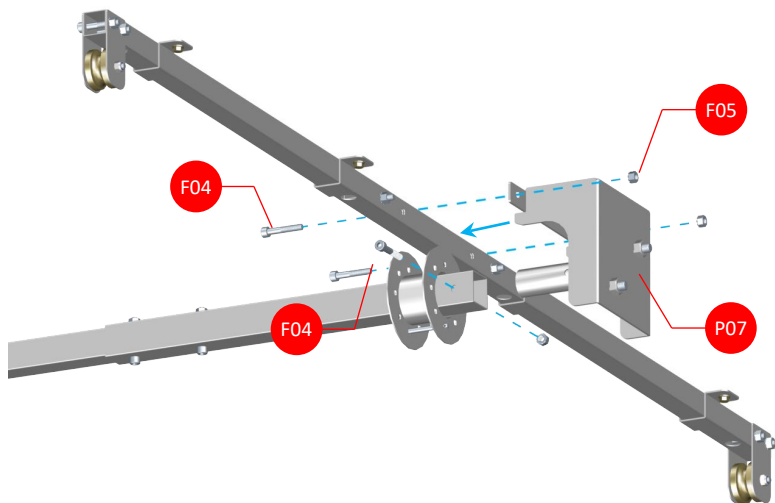
Apply self-purchased lubricating grease to the gear drive module.



Step 2: After connecting the gear module drive rod to the winch P08 and the connecting rod P09, secure them with bolt F04 and nut F05 using a wrench.

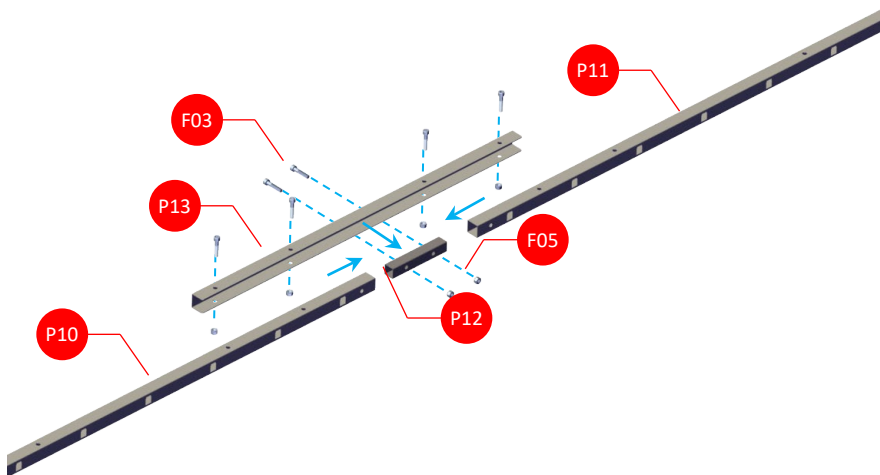


Step 3: Follow step 2 to remove the two fixing nuts on the other side. After connecting the shaft of the gearless driven module P07 to the winch P08, secure it with bolt F04 and nut F05 using a wrench.

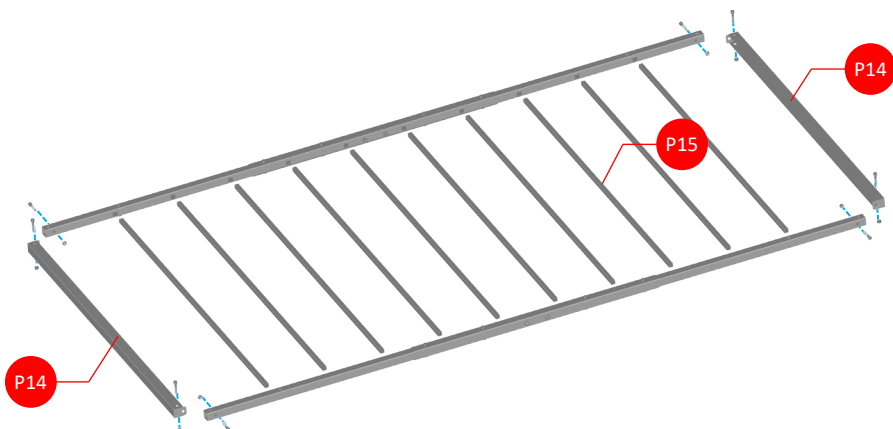


## • Assemble the Storage Rack

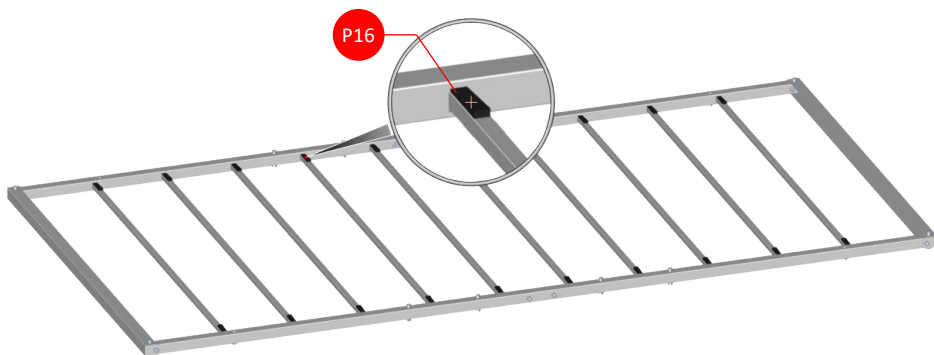
Step 1: Assemble frame tubes P10/P11, connecting tube P12 and U-clamps P13, then securely fasten with bolts F03 and nuts F05 using a wrench to complete two long side frames of the storage rack.



**Step 2:** Assemble frame tubes P14 (x2), grid tubes P15 (x10) and the pre-assembled long side frames (x2) into a complete rack structure. Secure all connections with bolts F02 and nuts F04 using a wrench to complete the storage rack assembly.

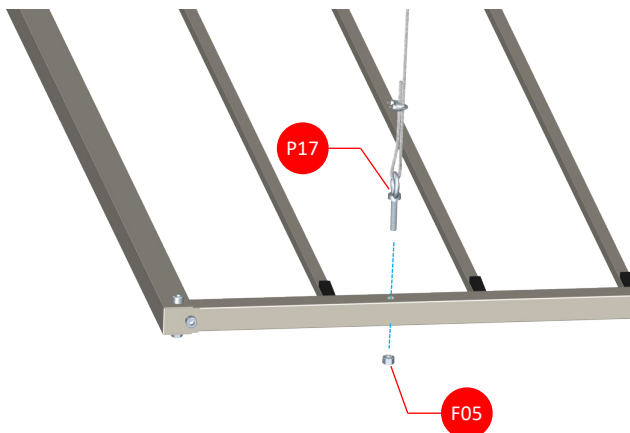


**Step 3:** Insert plastic angled wedges P16 (x20) into the mounting slots to secure the intermediate grid tubes.

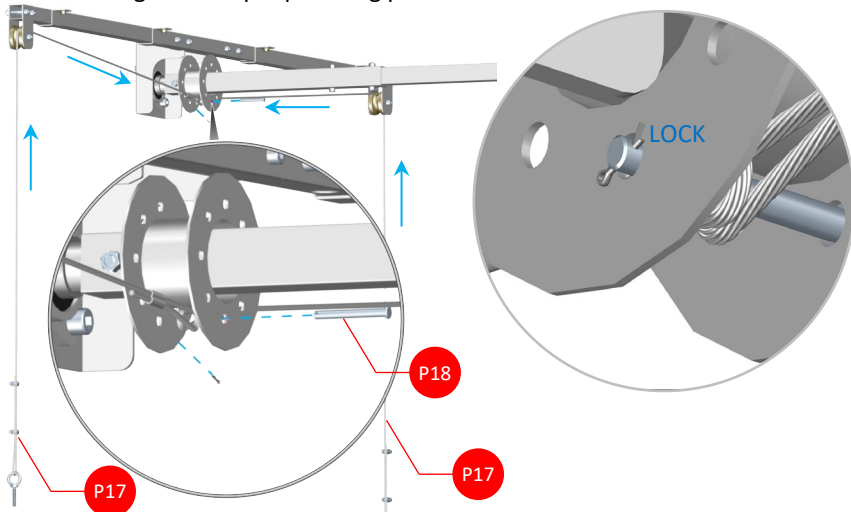


- **Storage Rack and Lifting System Connection**

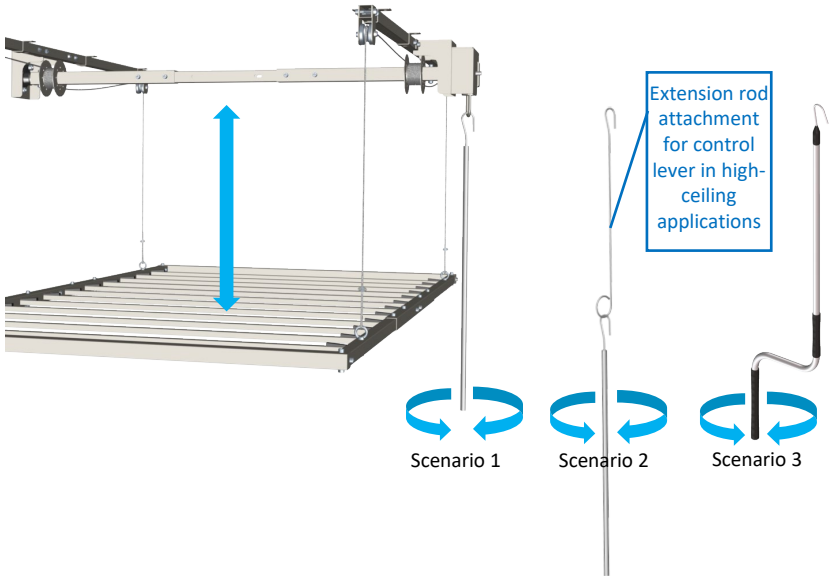
Step 1: Thread the steel cable eyelet P17 through the mounting hole of the storage rack's frame eyelet, then secure it by tightening nut F05 with a wrench.



Step 2: ① Take the eyelet ends of both wire ropes P17 and thread them through the pulley hole in the direction of the arrow. Align both eyelets properly inside the flange of the spool. ② Insert pin P18 through the hole on one side flange of the spool, pass it through the eyelets of the wire ropes, and then through the hole on the opposite side flange. Finally, secure it by inserting a split pin into the retaining hole of pin P18, and bend over the legs of the split pin using pliers.

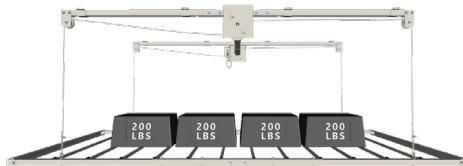


- Height Adjustment Procedure (Up/Down)



- Precautions

✓ Uniform load-bearing



✗ Avoid concentrated load-bearing

