



STANDARD PROCEDURE FOR STORAGE OF ELECTRIC HOISTS

Revision: August 25, 2011



CONTENTS

1.0 Scope

2.0 Short term storage procedures

2.1 Indoor storage

2.2 Outdoor storage

3.0 Long term storage procedures

3.1 Indoor storage

3.2 Outdoor storage

4.0 Extension of Warranty after long term storage

4.1 Recertification after long term storage

4.2 Access to equipment for on-site inspection

4.3 Rework required for recertification

4.4 Purchase order and billing information in connection with on-site inspection.

4.5 Lead time requirement for on-site inspection.

5.0 Commissioning after short term storage

5.1 Examination of equipment after short term storage

6.0 Commissioning after long term storage.

6.1 Revalidation of Warranty after long term storage

6.2 Preliminary inspection check list.

7.0 Installation of Hoist

7.1 Installation after preliminary inspection

7.2 Testing after installation

1.0 SCOPE

This procedure covers the following:

- (a) Storage of electric powered hoists in the field, both short term (365 days or less) to a maximum time limit of 1000 days.
- (b) Extension of warranty after prolonged storage.
- (c) The commissioning procedure at the time the equipment is put into service.

2.0 SHORT TERM STORAGE PROCEDURES

2.1 Indoor Storage:

When indoor, heated space is available, no special storage procedures are necessary.

2.1.1 Other equipment shall not be stacked on the hoist crate.

2.2 Outdoor Storage

Storage outdoors is not recommended and will void the product warranty.

3.0 LONG TERM STORAGE PROCEDURES

3.1 Indoor Storage:

Refer to paragraph 2.1 and 2.1.1.

3.1.1 We suggest that prior to going into storage that wire rope hoists be un-reeved with the cable stowed loose in a large coil.

3.1.2 Lubricate control enclosure hinges, equalizer sheave pins as well as all other areas which can oxidize with lubricants recommended in the Parts and Service Manual. Chain shall be lubricated per the manual and bagged to prevent corrosion. Frequency will be determined by ambient conditions.

3.1.3 Protect all exposed, machined, unpainted surfaces with cosmoline or similar type of protective coating. This procedure should be repeated as often as necessary to prevent oxidation.

3.1.4 For oil filled gear cases, fill hoist gear case with the correct lubricant as specified in the Parts and Service Manual. Hoist gear case breather plug should be taped closed for the duration of the storage period.

3.2 Outdoor Storage:

Storage outdoors is not recommended and will void the product warranty.

4.0 EXTENSION OF WARRANTY AFTER LONG TERM STORAGE

4.1 Recertification after long term storage:

Equipment that has been in storage for more than 365 days will have to be recertified by Columbus McKinnon or their representative before the extension of the warranty commences.

4.2 Access to equipment for on-site inspection:

It shall be the responsibility of the dealer or user to provide easy access to the equipment during the inspection. In extreme cases, this may require removing the equipment from its permanent mountings. Expense of removal and reinstallation of the equipment will be borne by the dealer or user.

4.3 Rework required for recertification:

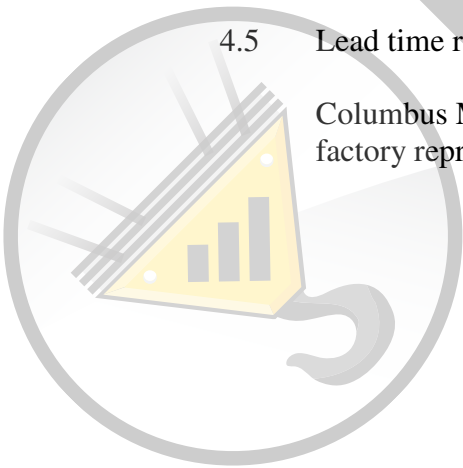
Any work performed on the equipment is the responsibility of the dealer or user. Columbus McKinnon can recommend local qualified service organizations. Equipment will be shipped to the point of rework, freight prepaid and returned to the dealer or user, freight collect or prepaid and charge.

4.4 Purchase order and billing information regarding on-site inspection:

Before a Service Rep will be dispatched, it will be necessary to have a valid purchase order to cover the inspection. Charges will include labor at the rate in effect at the time of inspection, plus all expenses (room and board, air fare, auto rental fee, telephone, etc.) associated with the inspection.

4.5 Lead time requirement for on-site inspection:

Columbus McKinnon requires a minimum of 2 weeks notice to arrange for factory representation on the job site to perform an inspection.



5.0 COMMISSIONING AFTER SHORT TERM STORAGE

5.1 Examination of equipment after short term storage:

Following short term storage the hoist should be visually examined for signs of oxidation or other damage. If no discrepancies are noted, installation may proceed in accordance with procedures outlined in the installation manual that accompanies the hoist.

- 5.1.1 If any discrepancies are found, we suggest you contact the Columbus McKinnon Service Department for information on how to proceed.

6.0 COMMISSIONING AFTER LONG TERM STORAGE

6.1 Revalidation of warranty after long term storage:

Refer to section 4.0 for information regarding on-site inspection of the equipment to revalidate the warranty.

6.2 Preliminary inspection check list:

It is suggested the dealer or user perform the following checks before calling for on-site inspection.

- 6.2.1 Visually inspect the equipment for signs of damage or oxidation. If none is noted, proceed to 6.2.2. If discrepancies are found, contact the Columbus McKinnon Service Department for information on how to proceed.
- 6.2.2 For oil filled gear cases, drain gear case completely and refill with fresh oil as specified in the hoist parts and service manual and remove tape from hoist gear case breather plug. Lubricate all other lube points on the hoist.
- 6.2.3 Inspect all motors for signs of moisture or moisture damage.
- 6.2.4 Inspect all electrical enclosures for signs of moisture or moisture damage. All contactors and relay tips, both moving and stationary should be inspected for signs of damage or deterioration at this time.
- 6.2.5 Inspect electrical cords for signs of damage or deterioration.
- 6.2.6 Elevate hoist and apply temporary power. For wire rope hoists, load hoist cable onto rope drum and complete reeving of hoist, setting upper and lower limits as required. Consult parts and service manual for reeving diagram and instructions. This step may be deferred until after the hoist has been installed on its permanent place, but should be accomplished beforehand to simplify the procedure.

7.0 INSTALLATION OF HOIST

7.1 Installation after preliminary inspection:

After completing the preliminary inspection as outlined in paragraph 6.2.1 through 6.2.5, the equipment is ready for installation in accordance with the procedures in the installation manual which accompanies the hoist.

7.2 Testing after installation:

After completion of installation and wiring, hoist shall be tested. Functional (unloaded) with load of rated capacity and proof load (minimum 125% capacity, maximum 150% capacity). After testing has been completed satisfactorily, hoist will be considered installed and warranty will commence on that date.

End of document

