

## Dock & Door Preventative Maintenance (PM)

### Sectional Doors

The following is the procedure followed by Hugg & Hall when performing PM on sectional doors.

- Inspect cable and drum wear.
- Check full operation of door. Adjust if required.
- Inspect all trim seals (if applicable).
- Inspect all brush seals (replace if needed).
- Inspect all safety devices: reversing edge, motion sensor, photo eyes, etc. (if applicable).
- Adjust tracks as needed to ensure doors roll smoothly.
- Lubricate and adjust counterbalance/torsion spring.
- Lubricate rollers.
- Inspect and adjust the limit switches (if needed).

### Rolling Doors

The following is the procedure followed by Hugg & Hall when performing PM on rolling doors.

- Check door for curtain damage.
- Check tension of counterbalance spring.
- Check drive limit assembly.
- Check brake assembly and adjust (if needed).
- Inspect all safety devices: reversing edge, motion sensor, photo eyes, etc. (if applicable).
- Lubricate guides (as required).
- Lubricate all moving parts.
- Check and tighten set screws and sprocket.
- Check and tighten all keyways.
- Check sprocket alignment.

### Operator

The following is the procedure followed by Hugg & Hall when performing PM on operators.

- Inspect and adjust limits.
- Inspect and adjust clutch.
- Inspect and lubricate roller chain.
- Inspect and test disconnect.
- Lubricate all bearings.
- Inspect and adjust brake.
- Inspect and adjust belts (if applicable).
- Inspect operator mounting.
- Inspect and tighten all sprockets.
- Check all safety devices (eye, safety edge, and hoses).

## High-speed Doors

The following is the procedure followed by Hugg & Hall when performing PM on high-speed doors.

- Visually inspect for damage.
- Inspect and test safety edge operation.
- Inspect head assembly for square.
- Inspect side guide.
- Inspect and tighten electrical connections.
- Inspect rollers or teeth on curtain.
- Test brake release (if applicable).
- Inspect and adjust limits.
- Record door serial number. \_\_\_\_\_
- Perform operation inspection.
- Inspect and test photo eye operation.
- Inspect weather seal.
- Inspect door panels or fabric.
- Inspect spring straps.
- Inspect all pulleys and straps.
- Record cycle count. \_\_\_\_\_

## Mechanical Dock Levelers

The following is the procedure followed by Hugg & Hall when performing PM on mechanical dock levelers.

- Clean any debris from lip hinge.
- Clean debris from rear hinge area and between the side and curb angles.
- Clean out the inside of the pit area (light cleaning only).
- Inspect the safety leg system for free operations, structural defects, pull chain operation, and return spring operation.
- Inspect telescopic toe guards (if applicable) to ensure they are not distorted or binding when in operation.
- Inspect and lubricate all mechanical pivot points on leveler with S.A.E. 30 oil.
- Clean and hold down rack and gears and apply grease.
- Inspect counterbalance main spring and pivot pins for excessive wear.
- Inspect lip push out arm and lip counterbalance assemblies for damage, checking chain and springs for elongation.
- Inspect all welds under leveler for fatigue or failure, particularly lip plate hinge and top plate understructure.
- Inspect all shims ensuring they are welded to subframe.
- Check full operation of leveler and make any adjustments required.
- Inspect and tighten dock bumper fasteners.

## Hydraulic Deck Levelers

The following is the procedure followed by Hugg & Hall when performing PM on hydraulic dock levelers.

- Clean any debris from lip hinge.
- Clean debris from rear hinge area and between the side and curb angles.
- Clean out the inside of the pit area (light cleaning only).
- Check full operation of leveler, ensuring there is no hesitation in hydraulic system.
- Inspect control box wiring/connections and ensure all buttons are operational.
- Inspect telescopic toe guards to ensure that they are not distorted/binding when in operation.
- Inspect all levelers for replacement and replace brush seal if necessary.
- Inspect and lubricate all mechanical pivot points on leveler with S.A.E. 30 oil.
- Inspect hydraulic cylinders and hoses for any fluid loss.
- Check reservoir level with leveler fully extended and add fluid if needed.
- Inspect welds under leveler for fatigue or failure, particularly lip plate hinge and top plate understructure.
- Make any adjustments required to limit switches, velocity, and valves.
- Check full operation of leveler and make any required adjustments.

## Restraints

The following is the procedure followed by Hugg & Hall when performing PM on restraints.

- Remove debris around restraint.
- Operate, assuring restraints operate smoothly and the carriage assembly moves freely up and down.
- Verify horn is working properly (if applicable).
- Check lights on control box. RED or GREEN must be illuminated at all times. Push the ENGAGE button to ensure both lights are working. Replace bulbs (as required).
- Check outside signal lights. RED or GREEN must be illuminated at all times. Push switch to ensure both lights are working. Replace bulbs (as required).
- Ensure all signage can be read, including operating, warning, and caution labels.
- Lube carriage rollers with a lithium and synthetic oil-based moly grease.
- Inspect for damage that may weaken the anchoring strength. Retighten concrete anchor (if necessary).
- Inspect outside electrical connections, including junction box, conduit, and power harness.
- Inspect outside communication light for loose or damaged components that must be repaired.
- Inspect dock bumpers. Four inches of protection is required. Replace worn, torn, or missing bumpers.
- Check motor drive chain. Tighten and lubricate chain (if necessary).
- Lubricate limit switch bracket between sprocket and cam with lithium and synthetic oil-based moly grease.
- Perform operational test after service.

## Edge of Dock (EOD) Levelers

The following is the procedure followed by Hugg & Hall when performing PM on EOD.

- Clean any debris from lip edge.
- Clean debris from rear hinge, side, and curb angles.
- Clean out inside of pit area.
- Inspect hoses and check fluid levels (hydraulic EOD only).
- Inspect airbag for rips or damage (airbag only).
- Inspect and tighten dock bumper fasteners.
- Inspect lip push out arm and lip counterbalance assemblies for damage.
- Check chain and spring for elongation.
- Inspect counterbalance main spring and pivot pins for wear.
- Inspect all shims, ensuring they are welded to the subframe.
- Inspect all welds under leveler for fatigue or failure, particularly the lip plate hinge and top plate understructure.
- Check full operation of the leveler and make any adjustments required.

## Notes

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