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# VRC Periodic Inspection Manual

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# VRC Periodic Inspection Manual

## Table of Contents

Overview .....	1
Inspecting the Tape .....	1
Inspecting the Gearbox and Motor .....	2
Functionality Checklist .....	2
Jog Switch Locations .....	3
Revisions .....	4



## Periodic Inspection Overview

VRCs should be inspected at least annually as detailed in this document. Prior to inspection, consult the factory with the serial number of the machine to determine if the latest updates have been implemented. If any updates are needed, relevant information will be provided.

### **Cautions:**

- This inspection will require the use of magnetically activated “Jog Switches” to move the carrier past the safety devices. The positions of these switches can be seen on Page 3.
- **Be very careful when using the jog function.** When jogging the unit, all safety mechanisms are bypassed, so the carrier can easily be crashed at either end of the machine. One technician should be at each end to supervise any such operation.
- **WARNING: If the control box door is open and the machine is ran or jogged up, it will damage the door or the control box**
- If the carrier does not move when it is jogged, do not attempt to free the jam by jogging the unit back and forth. This will cause damage and make repair of the cause of the problem more difficult and time consuming. If a jam of this type occurs, call the factory for support.
- Screws throughout the machine should be snug, but not over tightened. Hand-tightened is enough – use of a powered screwdriver is not recommended when reinstalling screws.

## Inspecting the Tape

The following steps should be taken in order to safely inspect the drive tape for wear. This procedure requires two technicians.

1. Run the carrier to the upper level.
2. Power down the machine.
3. At the lower level, remove the 4 Screws holding the tape track on each side using the provided 5/32 Allen wrench, then remove those sections of tape track.
4. Inspect the exposed portion of tape around the counterweights using the provided gauge or calipers. If the tape fits in the gauge or is less than 0.07 inches thick, it should be replaced. Consult the factory if this is the case.
5. Ensure that the counterweight screws are snug. Use a handheld screwdriver - do not overtighten.
6. With one technician at either level, CAREFULLY jog the carrier to the within 1-2 inches of the bottom level.
7. Remove the lower opening panel using the provided T20 Torx wrench.
8. Carefully rotate the carrier out of the conveyor.
9. Slide the mounting blocks off the carrier and set it aside temporarily.
10. Inspect the tape and screws as detailed in Steps 4 and 5
11. Slide the mounting blocks back on to the carrier.
12. Rotate the carrier back into the conveyor.
13. Reinstall the lower opening panel. Ensure screws are snug by hand – do not overtighten.
14. Carefully jog the carrier up until it is just above the lower opening.
15. Reinstall the removed sections of track at the lower level. Ensure screws are snug by hand – do not overtighten.
16. Power the machine back on.
17. Send the carrier to each level at least once to ensure proper stoppage.

## **Inspecting the Gearbox and Motor**

1. Run the carrier to the lower level.
2. Power down the machine.
3. At the upper level, remove the slide door skin. Do not run the machine with the slide door skin removed.

**Reminder: if the control box door is open and the machine is ran or jogged up, it will damage the door or the control box**

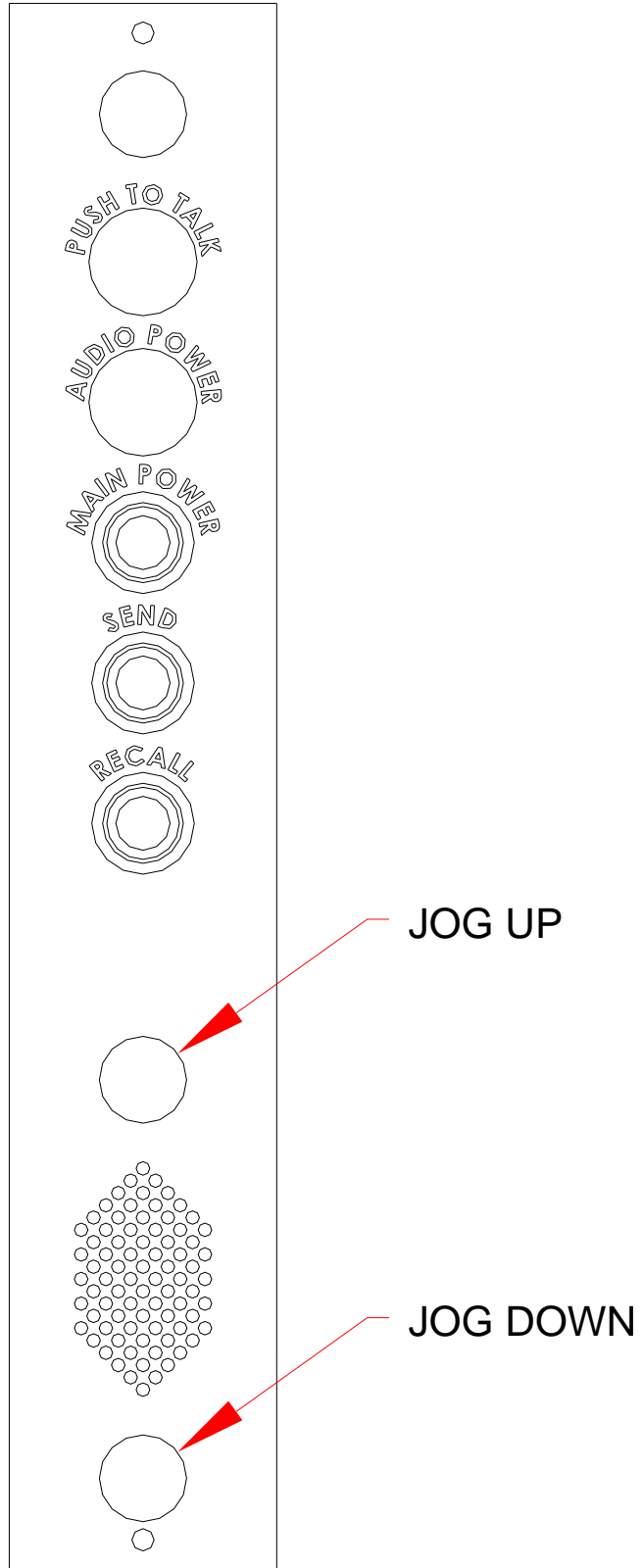
4. Check the level of the gear lube in the sight tube. The lube should be just below the bottom of the output shaft. Inspect thoroughly to ensure there are no leaks. The gearbox is permanently lubricated – if the level is low or leaks are present, consult the factory.
5. Unplug the motor harness from the control box.
6. Using a meter on Ohms, test from Black to Green and from Red to Green. If either value is 30k Ohms or less, consult the factory.
7. Reinstall the motor harness.
8. Reinstall the slide door skin.

## **Functionality Checklist**

1. Confirm that the door at upper level closes when the carrier goes down and remains latched when the carrier is not present.
2. Confirm that the carrier does not move when any safety bar is activated/photo eye is blocked.
3. Confirm that safety bars and photo eyes stop the moving carrier. The carrier should not automatically resume movement under any circumstances; unit must be power cycled and a new move must be initiated to resume.
4. Ensure that the warning label pictured below is clearly visible and legible.

WARNING: This machine is intended to convey food, beverages and currency between preparation and serving areas of a restaurant This machine is not designed to accommodate nor is it intended to carry live loads or any load in excess of 25 pounds.

# Jog Switch Locations



**Revisions:**

<b>ECN</b>	<b>Date</b>
21294	05/19/2020



