# Non-Contact Encoder Inspection Report

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|---|---|---|---|
| **Technician** | | **Cell#** | |
| **Serial Number** | | **Date** | |
| **Model** | | | |

**Encoder Manufacturer**

| | |
|---|---|
| Which company manufactured the encoder? | RLS ☐ Baumer ☐ |

| | |
|---|---|
| 1. What Alarm is being generated | |
| **2.** When does the alarm occur? | Power On ☐ Spindle Start UP ☐ Specific RPM ☐ RPM |
| **3.** Is the Alarm resettable? | Yes ☐ No ☐ |

4**.** Other - Describe the issue:

**Mandatory Troubleshooting**

| | |
|---|---|
| 5. Is a Ferrite filter installed on the encoder cable at the Processor end? | Yes ☐ No ☐ |
| 6. Is the encoder cable properly seated on the processor PCB? | Yes ☐ No ☐ |
| 7. Is the encoder cable routed away from the power cables 650 and 650A? | Yes ☐ No ☐ |
| 8. Has the ground cable been inspected and firmly secured at the reader head mounting plate? | Yes ☐ No ☐ |
| 9. Inspect the encoder ring, is there contamination on the face of the ring? If so, has it been cleaned? | Yes ☐ No ☐ |
| 10. Is there physical damage on the ring's face and/or the reader's head sensing face? | Yes ☐ No ☐ |
| 11. **Mill:** Has the Belt tension been verified? Record the tension value. | Yes ☐ No ☐ lbf |
| 12. **Lathe:** Has the belt tension been verified? Record the tension value. | Yes ☐ No ☐ Main lbf Sub lbf |
| 13. Has the readhead to ring gap been set? Check the troubleshooting guide for correct values and tolerances. | Yes ☐ No ☐ A B C |
| 14. Is there a 0.020" Shim present? | Yes ☐ No ☐ |
| 15. **Lathe:** What is the axial alignment measurement? Check the troubleshooting guide for correct tolerances. | Yes ☐ No ☐ in |
| 16. **Mill:** What is the axial alignment measurement? Check the troubleshooting guide for correct tolerances. | Yes ☐ No ☐ in |
| 17. Are ferrite filters installed on the Vector Drive output and REGEN cable? | Yes ☐ No ☐ |
| 18. The drive should have one ferrite filter on its output cables. If there are three, then replace them with one. Is the machine now working correctly? | Yes ☐ No ☐ |
| 19. The green ground cable on the output of the drive should not be routed in the ferrite. If it is, take it out of the ferrite. Is the machine now working correctly? | Yes ☐ No ☐ |
| 20. For Alarm 4.103, did you inspect the D-Y contactor assembly and place your findings in the Notes section? | Yes ☐ No ☐ |
| 21. For Alarm 4.153, did you check the ring's magnetic lines using the magnetic field viewer and place your findings in the Notes section? | Yes ☐ No ☐ |
| 22. Did you inspect the cable and connector at the read head and place your findings in the Notes section? | Yes ☐ No ☐ |
| 23. Did you clean the pins with WD40 and add dielectric grease to the connector? | Yes ☐ No ☐ |
| 24. What is the resistance measurement from the readhead connector to the case? | ohm |
| 25. Did you add a star washer to the connector between the jam nut and the case? | Yes ☐ No ☐ |
| 26. What is the resistance between the cable connector and case after adding the washer? | ohm |

**Notes/Observations:**

**Attach this report, an error report, and any relevent documentation to a service notification in the Haas Service App.**