

CRL SERVICE JOB SHEET

Company Name & Location: Triumf
Van Couver, BC Canada

Service Date(s): 9.9 to 13.2024

C.R.L Field Service Specialist

Pete D.

Central Research Laboratories

Customer Service Direct +1 651-385-2117

Cell +1 (612) 670-8122

Web site: www.crlsolutions.com

Customer Representative: Chad F.

Customer Purchase Order No: PO-TR-2023-01723

CRL Sales Oder Number:

I. Service Type.

A. Service.

II. Repairs Made.

A. Repair (2) Telemanipulators Model[s] E-HD & N

B. Serial Number[s] – 8105, 7985, 8106, 9351 & 9763

C. Adjusted Rollers.

D. Adjusted tensions as needed.

E. Repairs on Model E-HD sn 8105.

1. Repaired loose z-motion clamp screws on remote end.

2. Found the missing screw.

3. Adjusted rollers.

4. Tensioned cables as needed.

5. Adjusted the E&T lock assembly.

6. Repaired the Loose z-clamp.

7. Corrected the tong cable routing.

8. Smoothed the screw damaged area of the intermediate tube.

9. Checked and adjusted the Z-Motion Extension Stops.

10.

F. Replaced and or put parts/assemblies back together on Model E-HD sn 7985.

1. Replaced missing relays. One is still missing. Four are suspect for correct operation.

2. Repaired the 6104 handle assembly.

3. Reattached the repaired Y-motion Lock assembly.

4. Reattached the repaired E&T lock assembly.

G. Replaced Z tapes on Model N sn 9351.

- H. Lubricated the x-motion on model E-HD sn 8106.
 - 1. X-motion still squeaks. Loose thread insert or too long of bolt in the lower counterweight bolt.
- I. Installed and verified operations of Model N sn 9763.
 - 1. Left side or the E & T wrist is a bit stiffer than the right side.
 - 2. Adjusted the E&T lock assembly.

III. Parts Used.

- A. () Complete set of Cable Assemblies.
- B. (200') CRL_96026 St. Steel Tape.
- C. (30') CRL_96034 St. Steel Tape.
- D. (1) CRL-6687 Tong Cable.
- E. (1) CRL-9887 Handle Cable.
- F. (x) CRL-Misc screws & fasteners.

IV. Parts Used that are to be Billed for.

- A. NONE.

V. Additional Parts to have on hand for future repairs and maintenance.

- A. (500') CRL-96026-SPOOL-550 St. Steel Tape.
- B. (1) CRL-__ relay.

VI. Repairs needed for future repairs.

- A. Watch the boots for small holes or uneven wear.
- B. Watch the tubing for uneven wear.
- C. _____

VII. Parts remaining on hand.

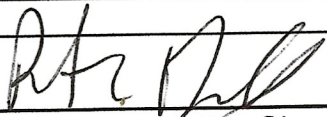
- A. Various small parts and cable assemblies.
- B. () CRL-__.
- C. () CRL-__.

VIII. Reportable Injuries.

- A. No Reportable or near miss accidents occurred.
- B. Reportable or near miss accidents that occurred, Explain in Detail.
Attach additional page[s] as required.

- 1. _____
- 2. _____

IX. _____
Customer Contact Signature


CRL Representative Signature

Customer Contact Name

Peter L. Dudley
CRL Representative Name

Date: _____, 2022

Date: 9.20.2024