TRON Lightcycle Maintenance Manual

Model: TL-2024 | Version 3.2

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1. SAFETY PROCEDURES

WARNING: Always follow lockout/tagout procedures

Before performing any maintenance: • Ensure ride is in maintenance mode • Verify all power sources
are isolated • Test energy isolation with approved meter • Apply personal locks and tags • Notify
operations of maintenance status

2. BEARING MAINTENANCE

Component	Inspection Frequency	Replacement Interval	Torque Spec
Main Drive Bearing	Daily	2000 hours	450 ft-lbs
Wheel Bearings	Weekly	1500 hours	180 ft-lbs
Guide Wheel Bearings	Monthly	3000 hours	85 ft-lbs
Tension Wheel Bearings	Weekly	2500 hours	120 ft-lbs

3. TROUBLESHOOTING GUIDE

OUTER RACE FAULT SYMPTOMS:

- Vibration frequency: 0.4 x RPM
- Noise increases with load
- Temperature rise in bearing housing
- Metal particles in lubricant

CORRECTIVE ACTIONS:

- 1. Check bearing alignment
- 2. Inspect for contamination
- 3. Verify proper lubrication
- 4. Replace if wear exceeds 0.002" radial clearance