

# SuperTrak CONVEYANCE™ Application Note

## Controller Software 3.0.54.0 Boundary Upgrade

ST3-AN-22#-V1

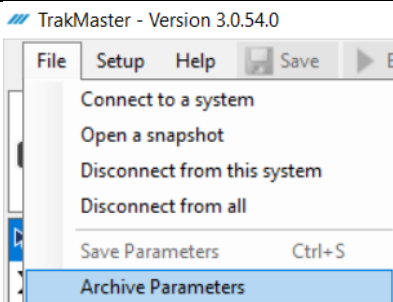
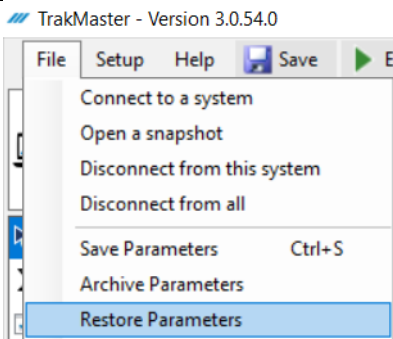
V1 Updated 15-Jul-24

### Overview

Upgrading controller software to version 3.0.54.0 or newer, on systems containing C01 Gateway Boards, may cause (~1mm) position shifts. It is recommended that after the upgrade the user performs an encoder calibration then verifies positions. Effected positions include targets, region limits, and sync limits.

### Instructions

The following process describes the steps necessary to upgrade older controller software (older than revision 3.0.54.0) to revision 3.0.54.0 or newer.

STEP	GRAPHIC/INSTRUCTION
1. Create an archive of the current configuration	 <p>TrakMaster - Version 3.0.54.0</p> <p>File Setup Help Save ▶ E</p> <p>Connect to a system</p> <p>Open a snapshot</p> <p>Disconnect from this system</p> <p>Disconnect from all</p> <p>Save Parameters Ctrl+S</p> <p>Archive Parameters</p>
2. Perform the controller software upgrade or replacement	Follow "Installation Package" instructions described in TrakMaster built-in help section: "Upgrading Software and Firmware". Controller installer versions can be downloaded from: <a href="#">SuperTrak CONVEYANCE™ Software Download - SuperTrak Conveyance</a> .
3. Restore the archive created in step 1	 <p>TrakMaster - Version 3.0.54.0</p> <p>File Setup Help Save ▶ Er</p> <p>Connect to a system</p> <p>Open a snapshot</p> <p>Disconnect from this system</p> <p>Disconnect from all</p> <p>Save Parameters Ctrl+S</p> <p>Archive Parameters</p> <p>Restore Parameters</p>
4. Recalibrate all Encoders	Undergo the calibration process as described in TrakMaster built-in help section: "Encoder Concepts and Procedures".

5. Note affected sections

All sections using C01 gateway boards are affected. Use TrakMaster Advanced->Hardware screen's Motors tab to identify these sections.

Item	Model
Section 1 - Gateway Board	ACB3040-C01
Section 1 - Left Coil Driver Board	ACB3000-E01
Section 1 - Right Coil Driver Board	ACB3000-E01
Section 2 - Gateway Board	ACB3040-C01
Section 2 - Left Coil Driver Board	ACB3000-E01
Section 2 - Right Coil Driver Board	ACB3000-E01
Section 3 - Gateway Board	ACB3040-C01
Section 3 - Left Coil Driver Board	ACB3000-E01
Section 3 - Right Coil Driver Board	ACB3000-E01
Section 4 - Gateway Board	ACB3040-C01
Section 4 - Left Coil Driver Board	ACB3000-E01
Section 4 - Right Coil Driver Board	ACB3000-E01
Section 5 - Gateway Board	ACB3040-C01
Section 5 - Left Coil Driver Board	ACB3000-E01
Section 5 - Right Coil Driver Board	ACB3000-E01
Section 6 - Gateway Board	ACB3040-C01
Section 6 - Left Coil Driver Board	ACB3000-E01
Section 6 - Right Coil Driver Board	ACB3000-E01
Section 7 - Gateway Board	ACB3040-C01
Section 7 - Left Coil Driver Board	ACB3000-E01
Section 7 - Right Coil Driver Board	ACB3000-E01
Section 8 - Gateway Board	ACB3040-C01
Section 8 - Left Coil Driver Board	ACB3000-E01
Section 8 - Right Coil Driver Board	ACB3000-E01

6. Verify positions on affected sections

It is possible that (~1mm) position shifts occurred. Validate that positions on the system are correct or reteach them.

- Targets
- Region boundaries
- Sync zone
  - o Note: sync zone verification must be performed as well to ensure no collisions are introduced with this change

## Questions?

Visit <https://supertrakconveyance.com/services/support/>