# Pivot Table Quick Start Guide

1. Attach Scanners to pivot mount. Refer to separate document.

## *IMPORTANT !!!*

**Before turning off power to the fixture, the fixture must not be rotating. This can be accomplished with the Speed Control knob or HALT buttons located on the side panels. This will allow the fixture to coast to a gentle stop. Otherwise, if A/C power is removed while rotating, the fixture can stop suddenly and cause damage if the scanners are powered.**

### Shutdown procedure

1. Press the HALT button. The button should lock in place and the fixture will coast to a gentle stop.
2. Adjust the Speed Control to the minimum setting. This is not necessary, but will ensure a controlled start up condition.
3. Press the A/C power switch OFF, located on the side panel.

### Startup procedure

1. Adjust the Speed Control to the minimum setting. This is not necessary, but will ensure a controlled start up condition.
2. Press the A/C power switch ON, located on the side panel.
3. Release the HALT buttons by turning clockwise.
4. Adjust the Rotation Control to the desired setting +/- $0^{o}$ to +/- $90^{o}$
5. Adjust the Speed Control to the desired setting.

### Emergency procedure

1. Press one of the HALT buttons located on the left or right side panel. The button will lock in place and the fixture will coast to a gentle stop.
2. Press the A/C power switch OFF located on the side panel.

## Timeout Condition

The fixture has a built-in watchdog timer that will force a Halt condition if a timer expires before seeing a limit sensor. During a timeout condition, the "Timeout" message will appear on the display and halt the fixture. If this occurs, then there is most likely a problem with a limit sensor(s) or magnet on the fixture. Please contact the factory if this occurs.

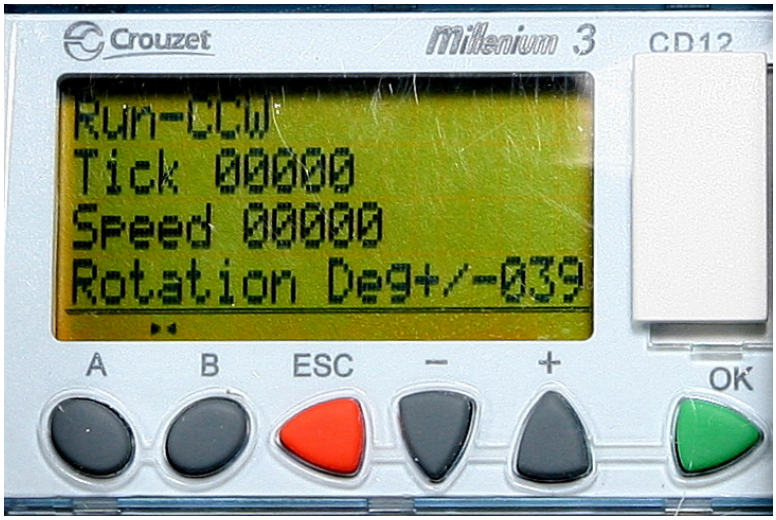
To reset a Timeout Condition

- Set the Speed Dial to minimum Speed for controlled startup.
- Press one of the Halt buttons and release. This will reset the timeout timer.
- Slowly increase the speed. Press the ESC key if necessary to reverse the direction of rotation so that the fixture is going back to 0 degrees (Home).
- Monitor the travel back and forth to see if the problem still exists. If so please contact the factory.

## Home Position

The 'Home' position of the fixture is when the open section of the gear is at 12 O'clock.

## PLC Front Panel Display




The display has 4 lines text with the following information:

**Line 1: Status** Displays the running status of the fixture

- **Run–CW** Fixture is running in a clockwise direction
- **Run–CCW** Fixture is running in a counter clockwise direction
- **Coast** Fixture is coasting (motor is temporarily not running)
- **Halt** Fixture is stopped due to a HALT button press.
- **Going Home** The fixture is going to the home position
- **Press 'B' to Resume** The fixture will resume operation after finding home

**Line 2:** Displays the number of 200ms ticks since passing home.

- **Tick #** # = 0 - 200
- **Timeout** Indicates the WatchDog timer has expired. See "Timeout Conditon"

**Line 3:** Displays the speed setting for the fixture

- **Speed #** # = 0 - 50

**Line 4:** Displays the +/- rotation in degrees. A value of +/-90 will rotate 90$^{o}$ to the left and right of home for a total of 180$^{o}$.

- **Rotation Deg+/-#** **# =** 1 - 90

## PLC Front Panel Buttons

**'A'**

- If pressed, the PLC instructs the fixture to go to the home position of 0 degrees. Line 1 status displays "Going Home"

**'B'**

- Will tell the PLC to resume normal operation from a "Going Home" condition. Line 1 status displays "Press 'B' to Resume"

**'ESC'**

- Will force the PLC to reverse the direction of the fixture. This is not necessary for normal operations. Care must be taken to not force the fixture into an over limit rotation.

**'–'**

- Not functional

**'+'**

- Not functional

**'OK'**

- Not functional

## Controls

**HALT switch (located on the left and right side panels)**

- When pushed, the switch will lock and force the PLC into a halt mode. The fixture will coast and stop rotation. The PLC displays "HALT". Turn the switch clockwise to release the halt position.

**Speed Control (located on the left side panel) – Left Control**

- Adjusts the speed of rotation from 0 (no rotation) to 50 (full speed)
- 1 = Min Speed: 80 seconds for 180 degrees of rotation
- 50 = Max Speed: 4 seconds for 180 degrees of rotation

**Rotation Control (located on the left side panel) – Right Control**

- Adjusts the rotation from approximately +/- 2 degrees to +/- 90 degrees. The rotation varies slightly based on the speed setting due to the decay of inertia during coasting just prior to a reversal.

## Misc

**Encoder Output**

- Quadrature Encoder output

**A/C Line Requirements**

- 110VAC – 240VAC 50Hz – 60Hz universal input. 0.75A @ 120VAC; 0.40A @ 220VAC

**Fuses**

- AC Line Fuse - 1A / 250VAC Fast Blo
- 24V DC Fuse - 2A / 250VAC Fast Blo