

# **Tobin Cinema Systems TXM14-CE**

## **Crystal Conversion of Eclair NPR “Ciblo” Governor Motor**

### **1. General Caution**

Never apply reversed DC polarity to the motor. While most of the circuitry is protected against this fault, reversed polarity will trip the internal breaker and likely could cause damage. When using a new power source or cable for the first time, check for proper polarity with a voltmeter to be safe. Pin 1 should be — and pin 4 should be +.

### **2. Installation**

Inspect the motor front drive coupling, and the camera’s rubber coupling. They should be clean and free of oil or fingerprints which could cause slippage. Clean if necessary with detergent and water, or a mild solvent such as alcohol, without getting cleaner on other camera or motor parts.

### **3. Basic Operation**

The camera is operated as before. Sync Alarm lights up red if speed is lost.

Double system sound filming requires the use of a separate audio recorder, with very stable speed or else a crystal pilot generator. This is explained on the TCS web site.

At the beginning of each sound take, use a clapstick that is heard by the microphone and seen by the camera, to establish sync. This is required for later editing stages.

### **4. Maintenance**

No routine maintenance is required. For your peace of mind, you should use the optional Tobin TSCt Crystal Speed Checker often to verify that the drive coupling is not slipping.

If the breaker trips from a film jam, turn the power off and let it cool for a few minutes. If the abnormal condition is removed, normal operation can then resume.

There are three adjustments on the circuit board that should not be disturbed without instructions from TCS and suitable measuring instruments.

**Tobin Cinema Systems, Inc.**

**<http://www.tobincinemasystems.com>**



