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SET-UP AND SEQUENCE OF OPERATIONS FOR 12 STATION BALLY TYPE FLEX TESTER COLD SYSTEM

(Job #2110305, Serial #2110305-1)

SET-UP & SEQUENCE OF OPERATION FOR COLD TESTING

- ◆ Plug the power cord to the Control Console into an 115V/15A receptacle.
- ◆ Turn the Power Switch to “ON”.
- ◆ Open the freezer lid, if not already open.
- ◆ Press the “UP” button on the pendant until the tester rises and comes to a stop, if not already in the up position.
- ◆ Open the clear polycarbonate guard.
- ◆ Use the “JOG” button to position the Upper Holder to the forward position.
- ◆ Position 1 to 12 specimens in Bally Flex Tester per the Test Procedure.
- ◆ The lid to the Tester **must** be left **OPEN**. If the lid is closed, the freezer will not turn on.
- ◆ Press the “DOWN” button on the pendant until the tester lowers and comes to a stop inside the freezer.
- ◆ Close the freezer lid.
- ◆ Turn the Cooler Selector Switch to “ON”.
- ◆ Program Temperature Controller Set Point Value (SV) to -10.0° C. (Note: -10.0° C has been pre-programmed at Schap prior to shipping). Temperature Process Value (PV) will fluctuate between -10.2° and -9.8° C. See the Solo Temperature Controller Manual included in this Manual.
- ◆ Program the Soak Timer to 2:00 Hours or another value if test procedure calls for a different value (Note: 2:00 Hours has been pre-programmed at Schap prior to shipping). If the Soak Timer has already been programmed, **then press the “RESET” button to prepare the timer for the next test.** See the Koyo Digital Timer Manual included in this Manual.
- ◆ Program the Eaton Counter for number of Cycles to be run (Note: Counter has been pre-programmed to 2000 cycles). If the Counter has already been programmed, **then press the “RESET” button to prepare the counter for the next test.** See the Eaton Operating Instructions in this Manual. There is also a Quick Reference page for the counter included in this Manual.

- ◆ The Tester has (2) Speed Adjustments on the side of the Control Console. The Lower Adjustment (Jog Speed) has been preset to a very slow speed to allow alignment of the Upper Holder to the forward position during set up. The Upper Adjustment (Run Speed) has been preset to 100 Cycles/min. (ambient temperature). This value can be up to 10% slow after prolonged low temperature Soak Times but will recover to 100cycles/min. soon after the test has begun. Review the Speed Adjustment instruction sheet in this manual.
- ◆ Press the green START button. The tester will not start until the Soak Timer completes its cycle.
- ◆ The Amber Light will come on, indicating that the test is in process.
- ◆ The Solo Temperature Controller will monitor the freezer temperature and automatically start the Soak Timer, once -9° C has been reached.
- ◆ Once activated, the Koyo Digital Timer will delay the test for programmed amount of time (2 hours) then automatically start the test. Start Button Must be pressed prior.
- ◆ The Eaton Counter will run the test for the programmed number of cycles.
- ◆ Upon completion of the programmed number of cycles, the machine will stop and the Red Light will begin flashing.
- ◆ Note: the freezer will maintain -10° C. until the freezer lid is opened.
- ◆ Open the freezer lid (Freezer cooling will stop).
- ◆ Press the “UP” button on the pendant until the tester rises and comes to a stop.
- ◆ Inspect or view samples.
- ◆ Remove samples for further inspection.
- ◆ Turn Flex Tester power switch “OFF” **or** prepare next test.
- ◆ Pressing “STOP” at any time will stop the cycling of the Flex Tester, but will not reset the current cycle-count. The cycling may be resumed by pressing the “START” button. The Counter may be **set** or **re-set** by following the instructions for the Eaton counter located in the machine manual.

SET-UP & SEQUENCE OF OPERATION FOR AMBIENT TESTING

- ◆ Plug the power cord to the Control Console into an 115V/15A receptacle.
- ◆ Turn the Power Switch to “ON”.
- ◆ Turn the Cooler Selector Switch to “OFF”.
- ◆ Open the freezer lid, if not already open.
- ◆ Press the “UP” button on the pendant until the tester rises and comes to a stop, if not already in the up position.
- ◆ Open the clear polycarbonate guard, if not already open.
- ◆ Position 1 to 12 specimens in Bally Flex Tester per the Test Procedure.
- ◆ Use the “JOG” button to position the Upper Holder to the forward position.
- ◆ Program the Eaton Counter for number of Cycles to be run (Note: Counter has been pre-programmed to 2000 cycles). If the Counter has already been programmed, **then press the “RESET” button to prepare the counter for the**

next test. See the Eaton Operating Instructions in this Manual. There is also a Quick Reference page for the counter included in this Manual.

- ◆ The Tester has (2) Speed Adjustments on the side of the Control Console. The Lower Adjustment (Jog Speed) has been preset to a very slow speed to allow alignment of the Upper Holder to the forward position during set up. The Upper Adjustment (Run Speed) has been preset to 100 Cycles/min. (ambient temperature). Review the Speed Adjustment instruction sheet in this manual.
- ◆ The lid to the Tester **must** be **CLOSED**, if left open the tester will not run.
- ◆ Press the green START button.
- ◆ The Amber Light will come on, indicating that the test is in process.
- ◆ The Eaton Counter will run for the programmed number of cycles.
- ◆ Upon completion of the programmed number of cycles, the machine will stop and the Red Light will begin flashing.
- ◆ Open the clear polycarbonate guard.
- ◆ Inspect or view samples.
- ◆ Remove samples for further inspection.
- ◆ Turn Flex Tester power switch “OFF” **or** prepare next test.
- ◆ Pressing “STOP” at any time will stop the cycling of the Flex Tester, but will not reset the current cycle-count. The cycling may be resumed by pressing the “START” button. The Counter may be **set** or **re-set** by following the instructions for the Eaton counter located in the machine manual.

Note: Periodically check the Hydraulic Fluid level in the Scissor Lift reservoir. Remove the end cowl from left end of the Tester. The reservoir will be in the front of the covered area. Use MobileLite Hydraulic Fluid #DTE and fill to the black line (approximately 2/3 full).

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