


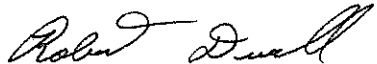
LOUISVILLE	LOCAL STANDARD TEST PROCEDURE	
	MODEL # IC3600SFCD1	REV 1

TABLE OF CONTENTS:

SECTION	PAGE
1. INTRODUCTION AND DESCRIPTION.....	2
2. MEASUREMENT STANDARDS & EQUIPMENT REQUIREMENTS.....	3
3. PRELIMINARY OPERATIONS.& THEORY OF OPERATION.....	4
4. TESTING AND CALIBRATION PROCESS.....	6
5. CHECKLIST / DATA SHEET.....	7

APPENDIX

A. PARTS LISTING.....	A1
B. ASSEMBLY DRAWING.....	B1
C. ELEMENTARY DIAGRAM.....	C1
D. FIRMWARE REVISION LISTING.....	D1

Reviewed By: Quality Assurance  	Date 02/12/92	Supercedes	Page 1 of 7
---	------------------	------------	----------------

LOUISVILLE	LOCAL STANDARD TEST PROCEDURE	
	MODEL # IC3600SFCD1	REV 1

SECTION 1 -- INTRODUCTORY DESCRIPTION

AND PERFORMANCE REQUIREMENTS

- 1.1 This procedure establishes the methods for testing
a IC3600SFCD1 Firing Circuit.

Hereinafter, the unit being tested will be referred
to as the UUT (Unit Under Test).

UUT environmental ranges: Temp. 72 degrees +- 5%

RH 20-80 %

UUT warm-up/stabilization period requirements:


5 minutes

It is advised that the schematics or operational
instructions be available for reference in
conjunction with this procedure.

(A copy of the schematic or operating
instructions is located in the library)

Personnel using this procedure are expected to
have a high degree of confidence and expertise in
related testing and calibration procedures.

Procedures not explained here are considered to be
understood as common practice.

 Reviewed By: Quality Assurance <i>Robert Dull</i>	Date 02/12/92	Supercedes	Page 2 of 7
--	------------------	------------	----------------


LOUISVILLE	LOCAL STANDARD TEST PROCEDURE	
	MODEL # IC3600SFCD1	REV 1


SECTION 2 -- MEASUREMENT STANDARDS


AND EQUIPMENT REQUIREMENTS

2.1 All measurement standards used in this procedure shall be traceable and shall have the accuracy, stability, range and resolution required for the intended use. Unless otherwise specified; the collective uncertainty of the measurement standards shall not exceed 25 percent of the acceptable tolerance for each characteristic being calibrated. All deviations shall be documented.

2.2 +27 volt supply
-27 volt supply
0 - 1.5 volt supply
220V Isolated AC Supply
16V Isolated AC Supply
Oscilloscope (isolated)
SK3582 SCR
220 volt load (light bulb)

 Reviewed By: Quality Assurance <i>Robert D. Wall</i>	Date 02/12/92	Supercedes	Page 3 of 7
---	------------------	------------	----------------

LOUISVILLE	LOCAL STANDARD TEST PROCEDURE			
	MODEL # IC3600SFCD1	REV 1		
<p><u>SECTION 3 -- PRELIMINARY OPERATIONS & THEORY OF OPERATION</u></p> <p>3.1 Read the entire testing and calibration procedure before beginning the testing and calibration process.</p> <p>3.2 Verify accuracy of the standard(s) evidence of recent careful calibration.</p> <p>3.3 Insure that the calibration environment is within the requirements of the published specifications, if any, for the UUT and the calibration standard(s). If no special conditions are required, the calibration procedure shall take place in an environment controlled to the extent necessary to assure continued measurements of required accuracy, giving due consideration to temperatute, humidity, vibration, cleanliness, and other controllable factors.</p>				
Reviewed By: Quality Assurance  <i>Robert D. Wall</i>		Date 02/12/92	Supercedes	Page 4 of 7

LOUISVILLE	LOCAL STANDARD TEST PROCEDURE			
	MODEL # IC3600SFCD1	REV 1		
<p>When applicable, compensating corrections shall be applied to calibration results obtained in an environment which departs from acceptable conditions.</p> <p>3.4 Visually inspect the UUT.</p> <p>3.5 Theory of operation:</p> <p>A control signal of 0 to 1.2 volts is input to terminal 6 of the board. Several outputs supply a pulse for triggering SCRs using phase angle control. Proper timing is achieved by a 16 volt AC signal applied to inputs 19 and 15 in phase with the 220 AC power source.</p> <p>The 16 volt AC signal also develops a +20 volt DC supply which is available on output 12.</p> <p>The board also contains a SCR protection and filter circuit.</p> <p>_____</p> <p>_____</p>				
Reviewed By: Quality Assurance 		Date 02/12/92	Supercedes	Page 5 of 7

LOUISVILLE	LOCAL STANDARD TEST PROCEDURE	
	MODEL # IC3600SFCD1	REV 1

SECTION 4 -- TESTING AND CALIBRATION PROCESS

4.1 Refer to elementary diagram page 3.1 of _____
IC3600SFCD documentation.

4.2 Connect +27V DC to Terminal 17, -27V to Terminal _____
7, and ^{Ground} ~~low~~ of both supplies Terminal 10.

4.3 Connect 0 to 1.5 volt supply as follows - negative _____
to Terminal 6 and positive to Terminal 10.

4.4 Jumper Terminal 16 to 18, 11 to 3, 15 to 13.

4.5 Connect 16V AC to Terminals 19 and 15, 220V AC _____
to Terminal 13 and one side of load.

4.6 Connect other side of load to Terminal 20 _____
Terminal voltage fo 19 and 20 must be in phase.

4.7 Connect anode of SCR to Terminal 20, cathode _____
to 13, gate to 11.


4.8 Apply all power at the same time.

4.9 0 - 1.2 volt control should apply power to load _____
from off to full half cycle.

4.10 Monitor voltage across load with ^{Duty Cycle meter} ~~oscilloscope~~ _____
which should confirm ^{Voltage to angle firing on Page} ~~0 to 160 degrees on time~~ 3.1

4.11 Confirm pulse output on Terminals 3 and 1 with _____
15 as common. ^{Confirm pulse between 405}

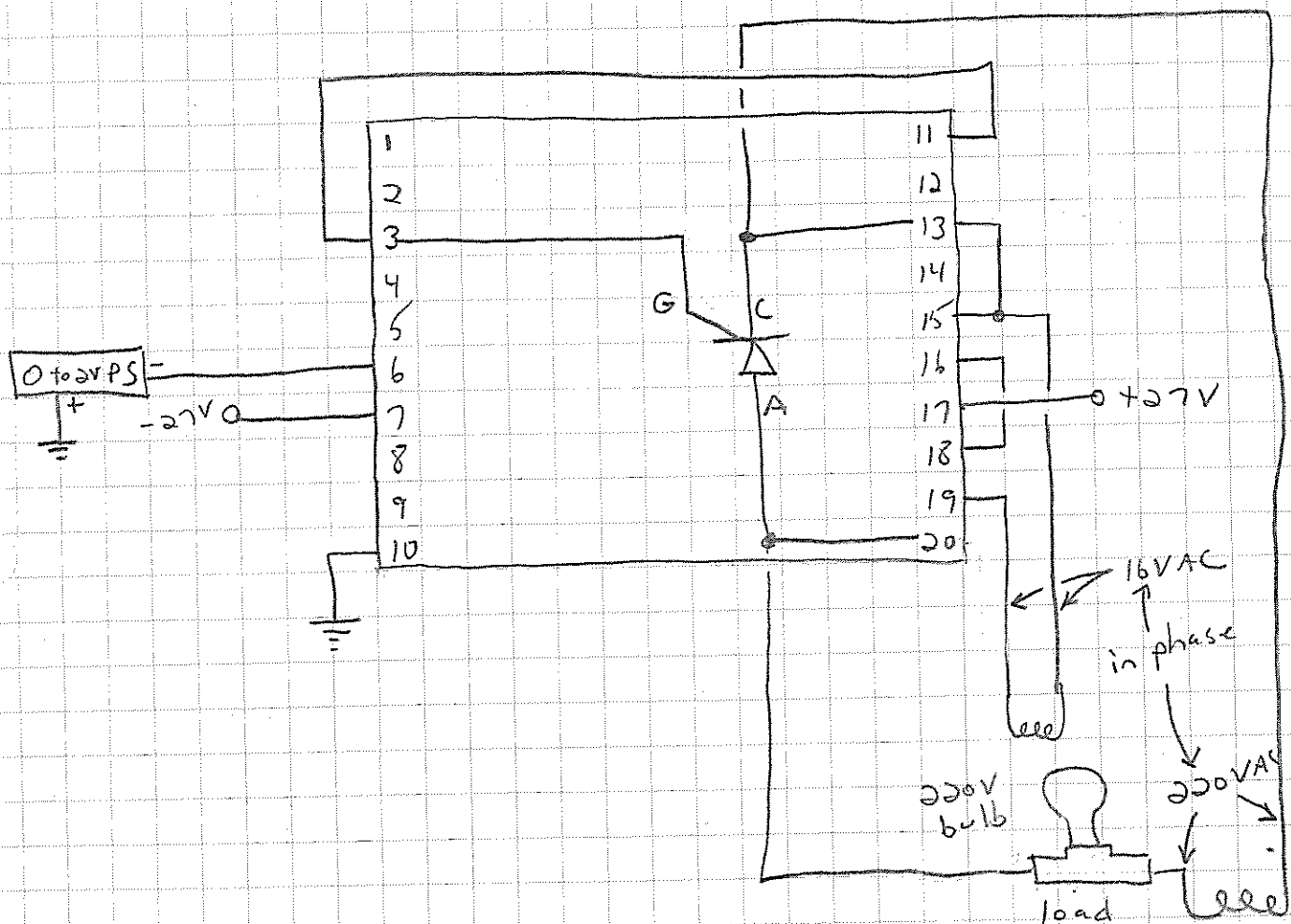
Reviewed By: Quality Assurance <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; text-align: center; margin-right: 5px;"> REG 2 LOU ES </div> </div>	Date 02/12/92	Supercedes	Page 6 of 7
--	------------------	------------	----------------

LOUISVILLE	LOCAL STANDARD TEST PROCEDURE	
	MODEL # IC3600SFCD1	REV 1
<p>SECTION 5 -- CHECKLIST / DATA SHEET</p> <p>Terminal:</p> <p>16 to 18 For 220V Test</p> <p>11 to 3</p> <p>15 to 13</p> <p>16 to 18 to 20 for 440V ✓</p>		
Reviewed By: Quality Assurance  <i>Robert D. Wall</i>	Date 02/12/92	Supercedes
Page 7 of 7		

IC3600SFC01

IC3600SCTB1

Test for IC3603A300G



Hook up unit as shown with 0 to 2V PS set to zero.
 The light should be off.
 Adjust 0 to 2V PS to 2V. Brightness should increase gradually.
 Bulb should be at half brightness & drop 110VAC.
 finished.