

REV NO. A	TITLE		CONT ON SHEET 2	SH NO. 1
68A993779	TEST INSTRUCTIONS			
CONT ON SHEET 2	SH NO. 1	FIRST MADE FOR 1C3001A236, 238, 240		

SPECIFIC TESTS		REVISIONS	
		1	2
<p>A. <u>TEST TO BE MADE</u></p> <ol style="list-style-type: none"> <li>1. COMPONENT CHECK. Q.C. WIRING. INSPECTION CHECK.</li> <li>2. VOLTAGE ADJUSTMENT. SHORT CIRCUIT ADJUSTMENT.</li> <li>3. LOAD REGULATION AND RIPPLE.</li> <li>4. LINE REGULATION.</li> <li>5. SHORT CIRCUIT TEST</li> <li>6. CROWBAR TEST</li> </ol>		<i>Revised 4/92</i> <i>#3/82</i> RETYPE 3/29/94 JAL	
<p>B. <u>TEST CONNECTIONS</u></p> <ol style="list-style-type: none"> <li>1. CHECK WITHOUT POWER. CASE TO P12V MUST BE OPEN CIRCUIT ON RX10,000 OHM SCALE.</li> <li>2. CONNECT PROPER DC/DC CONVERTER TO PROPER POWER SUPPLY PER FIG. 1.</li> <li>3. MONITOR POWER SUPPLY (DC/DC) OUTPUT TERMINAL WITH A DIFFERENTIAL VOLTMETER AND AN OSCILLOSCOPE. SET LOAD TO MAXIMUM RESISTANCE (MINIMUM CURRENT).</li> </ol>			
<p>C. <u>VOLTAGE ADJUSTMENT AND CURRENT ADJUSTMENT</u> (ON IC 3600SVZA CARD)</p> <ol style="list-style-type: none"> <li>1. SET POWER SUPPLY VOLTAGE TO 40 VDC. APPLY POWER</li> <li>2. ADJUST POT R120 CW UNTIL <math>V_o</math> IS 12 VOLTS <math>\pm</math> 12mV.</li> <li>3. ADJUST POT R110 CW AND VARY LOAD CURRENT TO MAKE POWER SUPPLY (DC/DC) ENTER CURRENT LIMIT AT 120% OF RATED CURRENT. (WHEN SUPPLY ENTERS CURRENT LIMIT, CURRENT SHOULD REMAIN CONSTANT AND VOLTAGE SHOULD DECREASE AS SUPPLY DROPS OUT OF VOLTAGE REGULATION AND ENTER CURRENT REGULATION).</li> </ol>			
<p>D. <u>LOAD REGULATION AND RIPPLE</u></p> <ol style="list-style-type: none"> <li>1. SET LOAD RESISTOR TO GIVE 50% RATED CURRENT. VERIFY THAT RIPPLE ACROSS POWER SUPPLY OUTPUT CAPACITORS IS LESS THAN 60mv PP. VERIFY THAT FREQUENCY IS APPROXIMATELY 1 TO 1.6KHz. INCREASE LOAD TO 100%. VERIFY THAT FREQUENCY CHANGES LESS THAN 20%</li> <li>2. VARY POWER SUPPLY LOAD FROM 100% RATED LOAD TO NO LOAD. VERIFY THAT OUTPUT VOLTAGE CHANGES LESS THAN 15mV.</li> </ol>			
<p>E. <u>LINE REGULATION</u></p> <ol style="list-style-type: none"> <li>1. SET POWER SUPPLY(DC/DC) LOAD TO 100% RATED. VARY POWER SUPPLY VOLTAGE. VERIFY THAT OUTPUT VOLTAGE CHANGES LESS THAN 15mV AS THE P.S. VOLTAGE IS VARIED</li> </ol>			
<p>F. <u>SHORT CIRCUIT TEST</u></p> <ol style="list-style-type: none"> <li>1. SHORT CIRCUIT SUPPLY OUTPUT. VERIFY <math>I_o</math> IS EQUAL TO 120% <math>I</math> RATED AS SET IN STEP C3.</li> <li>2. REMOVE SHORT CIRCUIT AND VERIFY THAT THE POWER SUPPLY (DC/DC) RECOVERS AND REGULATES PROPERLY.</li> <li>3. SET CURRENT TO 50% RATED.</li> </ol>			
			6T
			1338
			P&A
			2520
			PRINTS TO

MADE BY FRED LIADY	APPROVALS EGH fw DCF	INDUSTRY CONTROL	DIV OR DEPT.	68A993779
ISSUED OCT 10 1965		SALEM, VIRGINIA	LOCATION	CONT ON SHEET 2 SH NO. 1

REV NO.  68A993779 CONT ON SHEET FL. SH NO. 3	TITLE TEST INSTRUCTIONS FIRST MADE FOR IC3601A238
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REVISIONS	
1	2

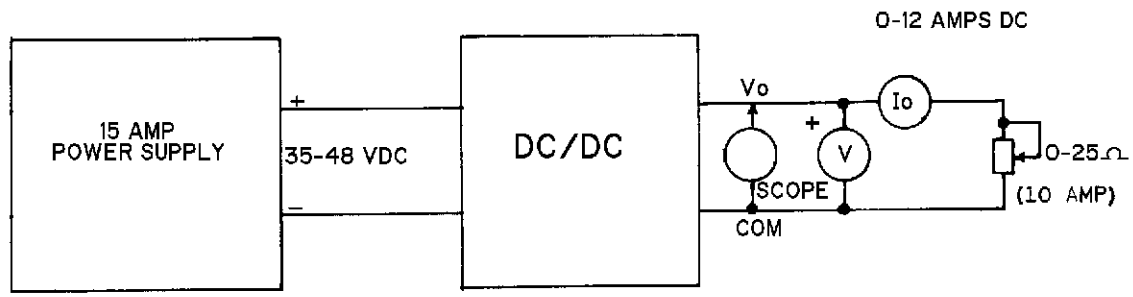


FIG. 1

REVISOR *[Signature]*  
 4/19/89  
 CHANGED CONVERTER TO P.S.  
 3/29/94 JAL

6T
1338
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2520
PRINTS TO

MADE BY FRED LIADY	APPROVALS <i>EGH</i> <i>DC F</i>	INDUSTRY CONTROL SALEM, VIRGINIA	DIV OR DEPT. LOCATION 68A993779 CONT ON SHEET FL. SH NO. 3
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REV NO. A	TITLE		
68A993779	TEST INSTRUCTIONS		
CONT ON SHEET 3	SH NO. 2	FIRST MADE FOR IC3601A238 12V 10A DC/DC	
<p>G. <u>CROWBAR TEST</u></p> <ol style="list-style-type: none"><li>1. REMOVE POWER. REMOVE LK2 ON TB1. ADD A 1000<math>\Omega</math> RHEOSTAT SET TO ZERO OHMS BETWEEN TB1(6) AND TB1(7). REAPPLY POWER. SUPPLY SHOULD REGULATE APPROXIMATELY 12 VOLTS.</li><li>2. SLOWLY INCREASE RESISTANCE OF RHEOSTAT CAUSING SUPPLY VOLTAGE TO INCREASE.</li><li>3. VERIFY THAT CROWBAR FIRES AND TRIPS CIRCUIT BREAKER WITH SUPPLY IN BETWEEN 13 AND 17 VOLTS. REMOVE RHEOSTAT, RECONNECT LINK, AND VERIFY THAT SUPPLY REGULATES PROPERLY WHEN BREAKER IS RESET. REMOVE POWER.</li></ol> <p>H. REMOVE REGULATOR CARD. APPLY POWER. VERIFY THAT LIGHT COMES ON. REMOVE FUSE. VERIFY THAT LIGHT GOES OUT. VERIFY FUSE IS PROPER VALUE. REMOVE POWER AND REPLACE FUSE AND REGULATOR CARD.</p>		REVISIONS	
		1	2
		APPROVALS 224 AN DCF	
MADE BY FRED LIADY		INDUSTRY CONTROL	
ISSUED OCT 10 1968		SALEM, VIRGINIA	
		DIV OR DEPT.	
		LOCATION	
		68A993779	
		CONT ON SHEET 3	
		SH NO. 2	
		CODE IDENT NO.	