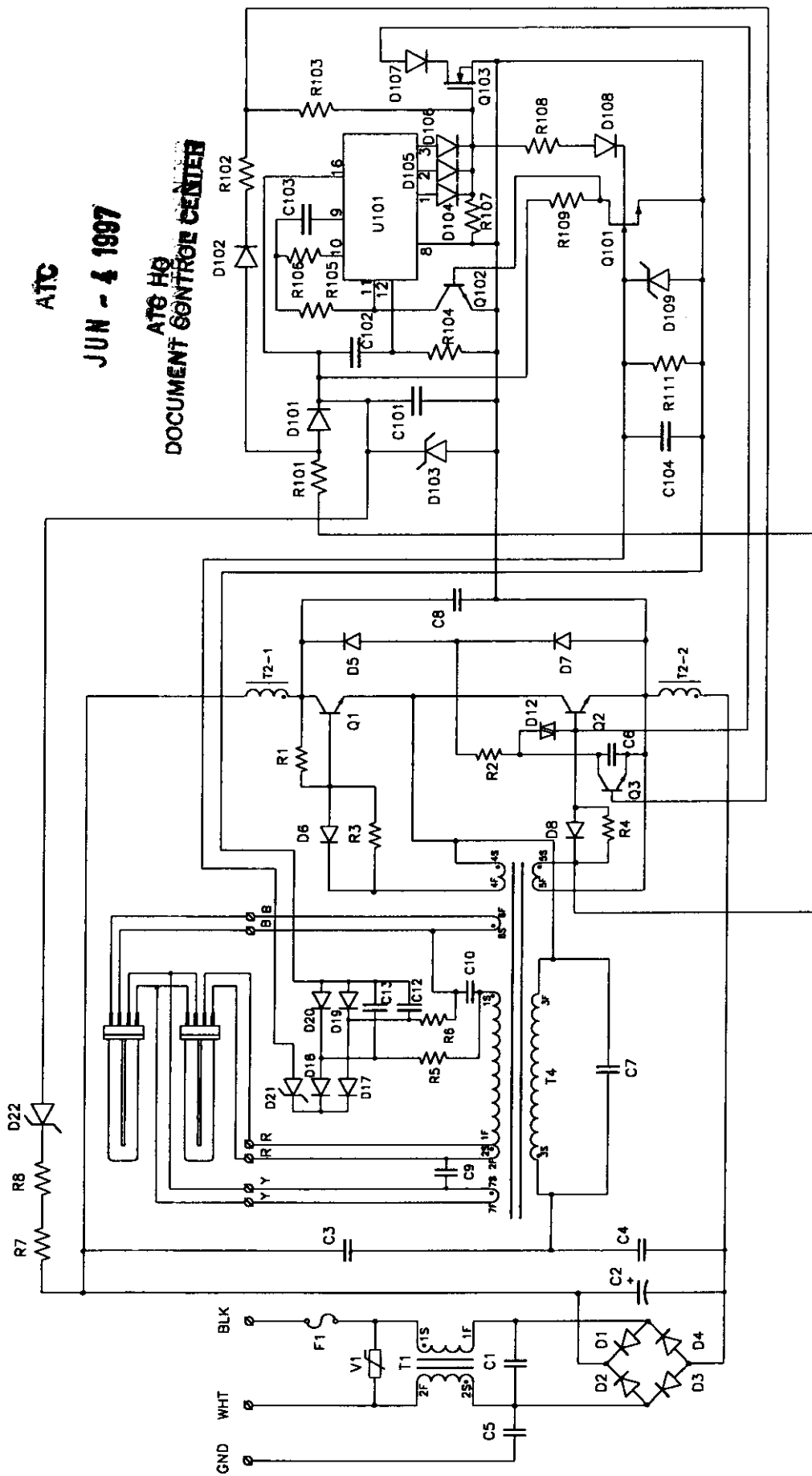


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**ELECTRONIC BALLAST
TECHNOLOGY, INC.
23600 TELLO AVENUE
TORRANCE, CA 90505**

TITLE:

CIRCUIT SCHEMATIC
(HFL-120-2/40 RS)[illegible]

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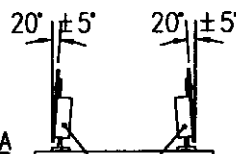
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ENGINEERING PROCESS INSTRUCTIONS:

1. Use automatic insertion machine for small axial and/or radial leaded components.
2. Manually insert capacitors and varistors.
3. For electrolytic capacitors and diodes, take note of polarity.
4. For all sub-assembly insertion, check for pin designations, color codes and assembly orientations.
5. Check for proper color codes and length of lead wires.
6. When all components and assemblies are inserted, run assembly thru soldering conveyor, flux and dip soldering.
7. Trim excess leads after wave soldering.
8. Visually inspect component and trace sides. Do touch-up and repair if necessary.
9. Perform electrical tests according to test specification sheet. For Test parameter, refer to 87-201-241.
10. For Circuit schematic, refer to 89-201-241.
11. Component C2 is bent inward approximately 80°. (see detail B)
12. Components R5 & R6 are located underneath C10 component. Components R3, D5, D6, D17, D18 & D19 are located underneath T4 component. Components D1, D2, D3, & D4 are located underneath C1 component. Component D22 is located underneath C3 component. Component D103 is located underneath C4 component. Components R7, R8, R104, R108, R110, R111, D104, D105, D106, D108, & U101 are underneath C2 component.
13. Component C11 is not used.
14. Yellow lead wires are placed in positions 1Y2 & 2Y2. Red lead wires are placed in positions 1R & 2R. Blue wires are placed in positions 1B & 2B.
15. Transistors assembly should be bent inwards at an angle of not more than 25°. (see Detail A). See drawing 86-001-006 figure 1 for preforming.

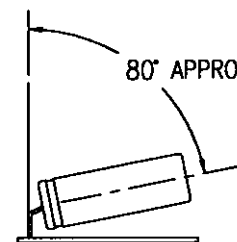
PLACE JUMPER WIRE INTO R110 POSITION

Detail A



Transistors

80° APPROX.



Detail B

**INSERT MANUALLY
D109 JUMPER INTO
SAME HOLES AS
AUTO INSERTED R11**



CAUTION
ELECTROSTATIC
DISCHARGE SENSITIVE

**Use grounding strap
when handling this
device.**

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SEE SEPARATE BOM 98-221-098-00

ASSEMBLY DRAWING

A		PRODUCTION RELEASED		DN 11.07.96	
REV.	ZONE	DESCRIPTION OF CHANGE (ECN NO.)		DATE	
UNLESS OTHERWISE SPECIFIED UNITS ARE IN MILLIMETERS(mm) TOLERANCES ARE:		FRACTIONS:	DESIGNED BY:	DESIGNED BY:	03.29.96
		DECIMALS:	CHECKED BY:	CHECKED BY:	
		ANGLES:	APPROVED BY:	DATE:	11/07/96
			APPROVED BY:	DATE:	
			APPROVED BY:	DATE:	

ELECTRONIC BALLAST TECHNOLOGY, INC. 23600 TELLO AVENUE TORRANCE, CA. 90505			
TITLE: PCB ASSEMBLY (HFL-120-2/40 RS)			
SIZE	PART NO.	DWG NO.	REV.
LTR	98-221-098-00	98-221-098	A
SCALE	DATE	SHEET	OF
	11/07/96	1	1

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