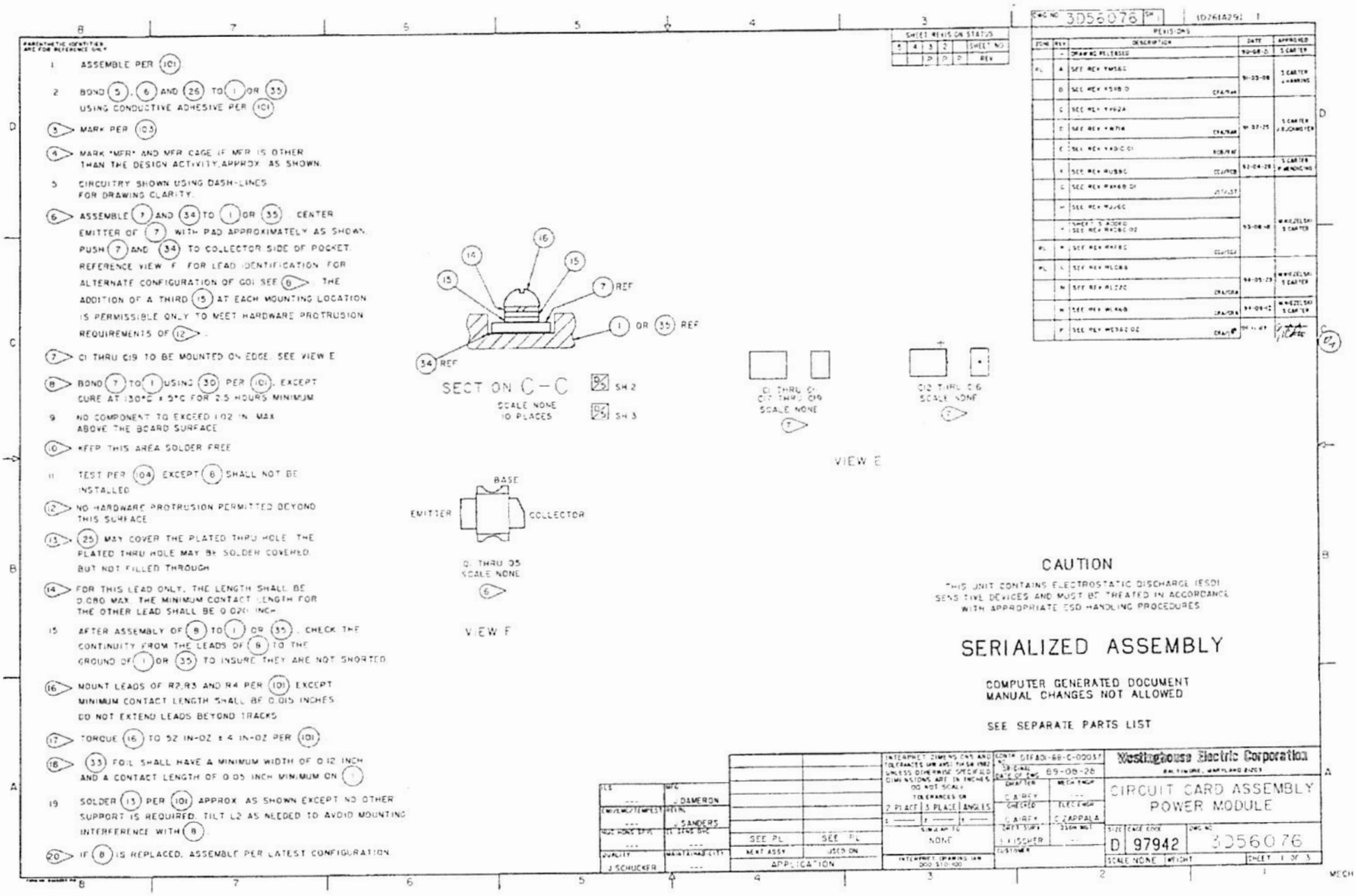
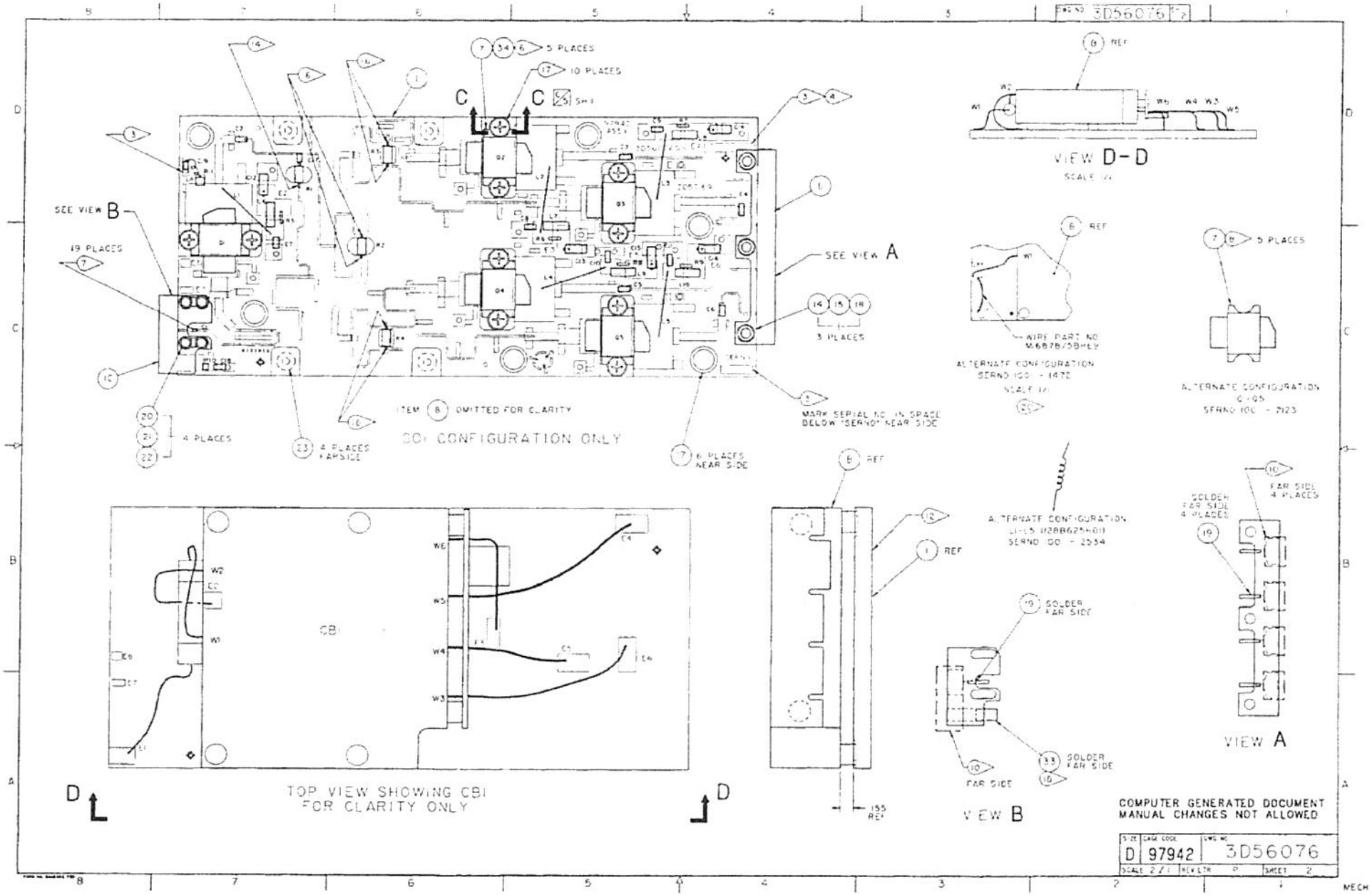
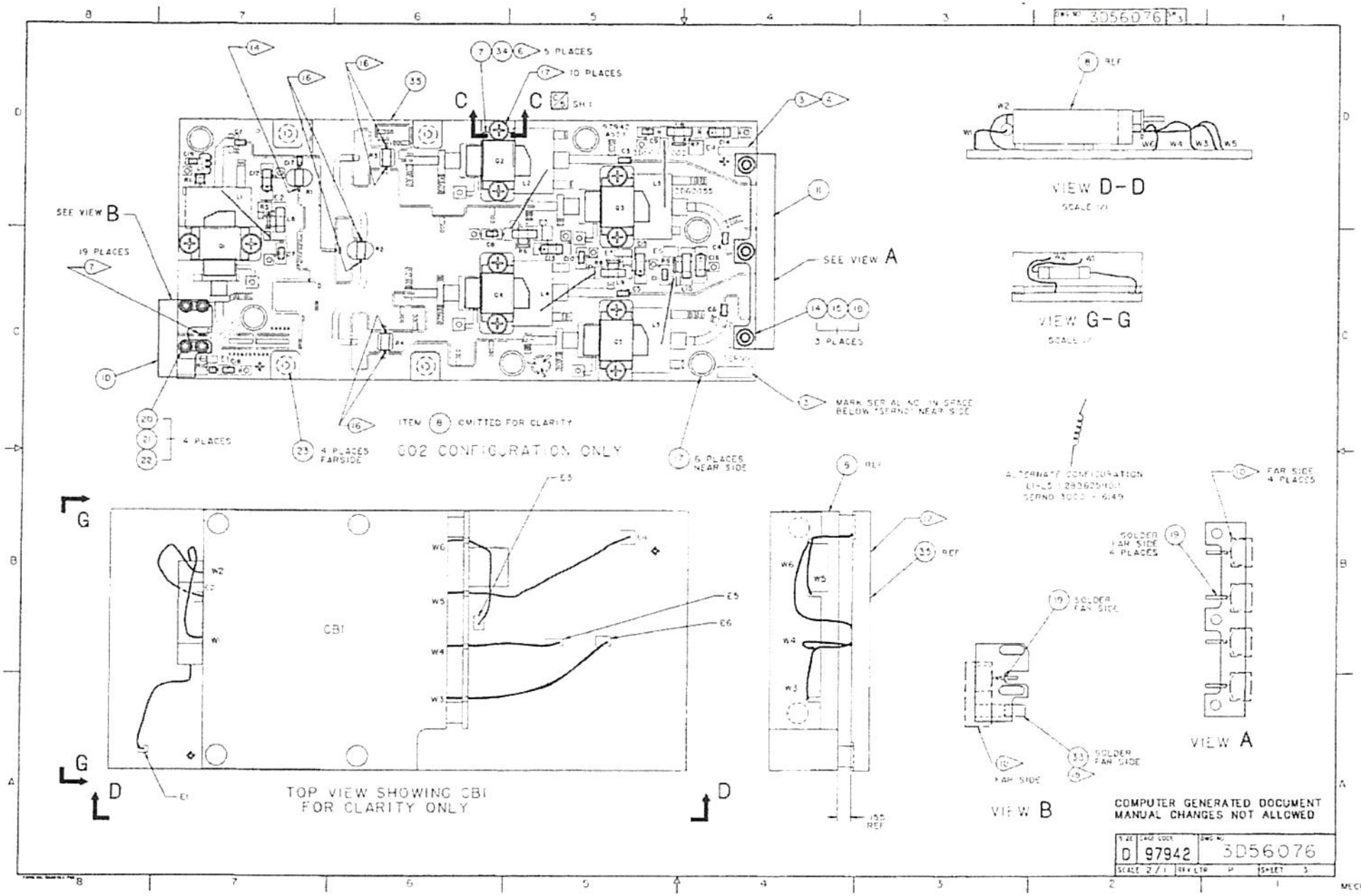


Attachment 4
Exhibit 6.3


DWG NO 3D56076
SEE VIEW B
19 PLACES
SEE VIEW A
5 PLACES
10 PLACES
SH 1
3 PLACES
4 PLACES
4 PLACES FARSIDE
6 PLACES NEAR SIDE
ITEM 8 OMITTED FOR CLARITY
CO1 CONFIGURATION ONLY
MARK SERIAL NO. IN SPACE BELOW "SERNO" NEAR SIDE
VIEW D-D
SCALE 1/1
WIRE PART NO M6878/5B-HLP
ALTERNATE CONFIGURATION
SERNO 100 - 1472
SCALE 1/1
ALTERNATE CONFIGURATION
C-105
SERNO 100 - 2123
ALTERNATE CONFIGURATION
LI-15 (128862SH01)
SERNO 100 - 2534
SOLDER FAR SIDE
FAR SIDE
4 PLACES
VIEW A
VIEW B
CBI
TOP VIEW SHOWING CBI FOR CLARITY ONLY
.155 REF
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED
SIZE D
CAGE CODE 97942
DWG NO 3D56076
SCALE 2/1
REV LTR P
SHEET 2
MECH


3D56076
5 PLACES
10 PLACES
SEE VIEW B
19 PLACES
SEE VIEW A
3 PLACES
MARK SERIAL NO. IN SPACE BELOW "SERNO" NEAR SIDE
ITEM 8 OMITTED FOR CLARITY
4 PLACES
4 PLACES FARSIDE
6 PLACES NEAR SIDE
C02 CONFIGURATION ONLY
VIEW D-D
VIEW G-G
ALTERNATE CONFIGURATION
FAR SIDE 4 PLACES
SOLDER FAR SIDE 4 PLACES
SOLDER FAR SIDE
VIEW A
VIEW B
CBI
TOP VIEW SHOWING CBI FOR CLARITY ONLY
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED
D 97942 3D56076
SCALE 2/1
SHEET 3

PARENTHETICAL IDENTITIES ARE FOR REFERENCE ONLY

1 FABRICATE PER (100) EXCEPT PLATED THRU HOLES ARE REQUIRED PER (10) THERMAL SHOCK REQUIREMENT OF (101) DOES NOT APPLY

ETCH USING ARTWORK 3D57169

COMPONENT SURFACE (1)

LAYER	1	2
REVISION	C	
ETCH A	S	A

A S=STR ETCH R=RVS ETCH, B=BLANK (NO FOIL) SURFACE
A=ALUMINUM SURFACE

2 CONDUCTOR REQUIREMENTS, UNLESS OTHERWISE SPECIFIED, SHALL BE

SURFACE	EXT
MINIMUM CLEARANCE	.01
MINIMUM WIDTH	.013

(3) ALL HOLES WILL BE LOCATED FROM THE LOCATING BASE LINES TRUE POSITIONED WITHIN .006 DIAMETER UNLESS OTHERWISE SPECIFIED

4 ALL LAYERS ARE VIEWED THROUGH LAYER 1 INCLUDING THE DRILL AND TRIM VIEW

5 WORKMANSHIP PER (106)

6 PLATE ALL EXPOSED ALUMINUM WITH NOT LESS THAN 200 MICROINCHES OF NICKEL PER (102) AND NOT LESS THAN 250 MICROINCHES OF MATTE TIN PER (103) CHROMATE PER (107) IS AN ACCEPTABLE ALTERNATE PROCESS FOR THE SUBSTRATE PERIMETER AND TAPPED HOLES

7 PLATE COPPER CIRCUITS WITH IMMERSION TIN OR NOT LESS THAN 200 MICROINCHES OF MATTE TIN PER (103)

(8) REGISTRATION HOLES USE AS REQUIRED

(9) COPPER SURFACE

(10) TOLERANCE APPLIES WITH SURFACE -A- RESTRAINED AGAINST A FLAT SURFACE

SHEET REVISION STATUS				
5	4	3	2	SHEET NO
C	-	-	D	REV

DWG NO 3D57169 REV

ZONE	REV	DESCRIPTION	DATE	APPROVED
		DRAWING RELEASED	85-07-29	S.CARTER
	A	SEE REV 15-1N-02 DRA.BEM	86-03-04	J.DAWKINS S.CARTER
	B	SEE REV 1-NOSC-05 KCB/RF	86-10-03	J.BUCHWALTER S.CARTER
	C	SEE REV 1-NOSC-02 KCB/RF		
	D	SEE REV 1-NOSC-10 JSS	88-12-19	

4A

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SEE SEPARATE PARTS LIST

U.S.	MFG C.CLAAR		
ENG/PROP/TEMPEST	HEERL J.SANDERS		
ACC HOURS SPEC	EL SERV DIV		
QUALITY J.SCHUCKER	MAINTAINABILITY	SEE PL NEXT ASSY	SEE PL USED ON
		APPLICATION	

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1982 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

TOLERANCES ON

2 PLACE	3 PLACE	ANGLES
±.01	±.005	±0.5°

SEMILAR TO NONE

INTERPRET DRAWING IAW DOD STD 100

CONTR NO SEE PL

DRAWN DATE 89-08-28

DRAWER C.AIREY

MECH ENGR R.HAMILTON

CHECKED C.AIREY

ELEC ENGR C.ZAPPALA

DRFT SUPV F.FISCHER

DSGN MGT

CUSTOMER

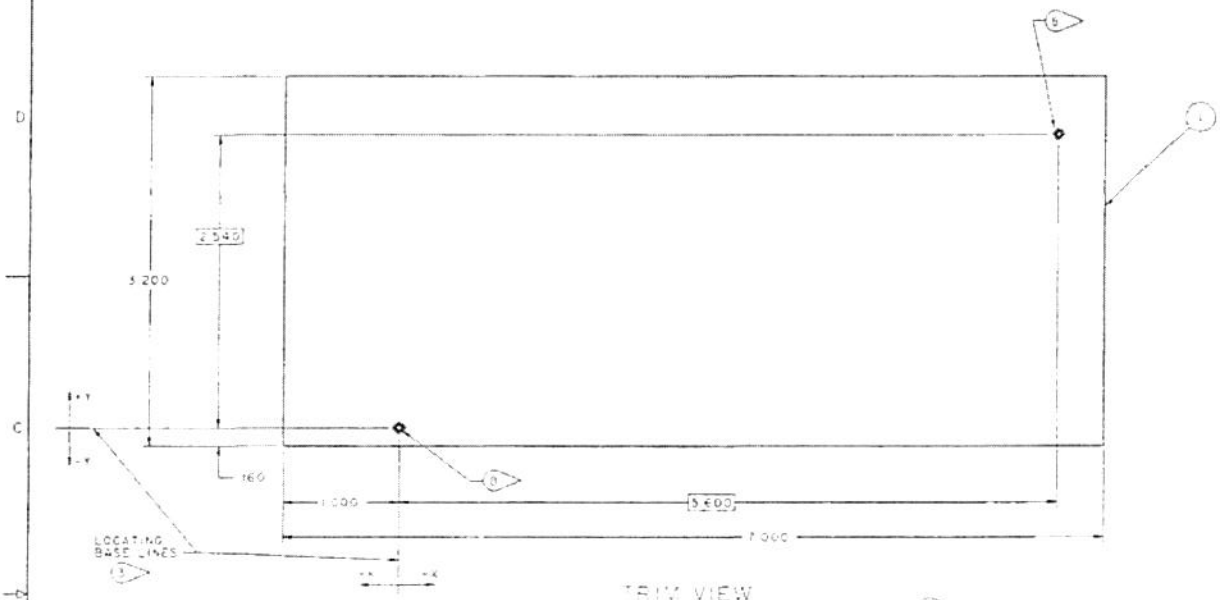
Westinghouse Electric Corporation
BALTIMORE, MARYLAND 21203

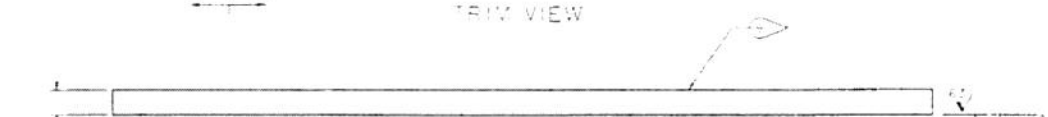
PRINTED WIRING BOARD
POWER MODULE

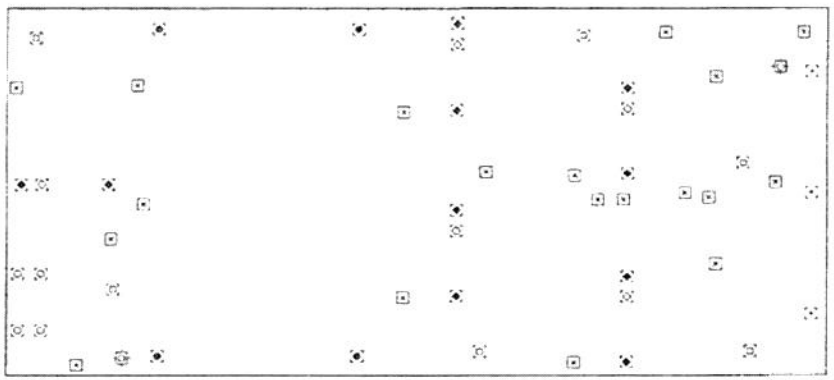
SIZE D | CAGE CODE 97942 | DWG NO 3D57169

SCALE -/- | WEIGHT | SHEET 1 OF 4

MECH







DRILL VIEW

SYMBOL LEGEND	
SYMBOL	DENOTES
	REGISTRATION NO PLATING
	HOLE PLATED THRU
	HOLE PLATING OPTIONAL

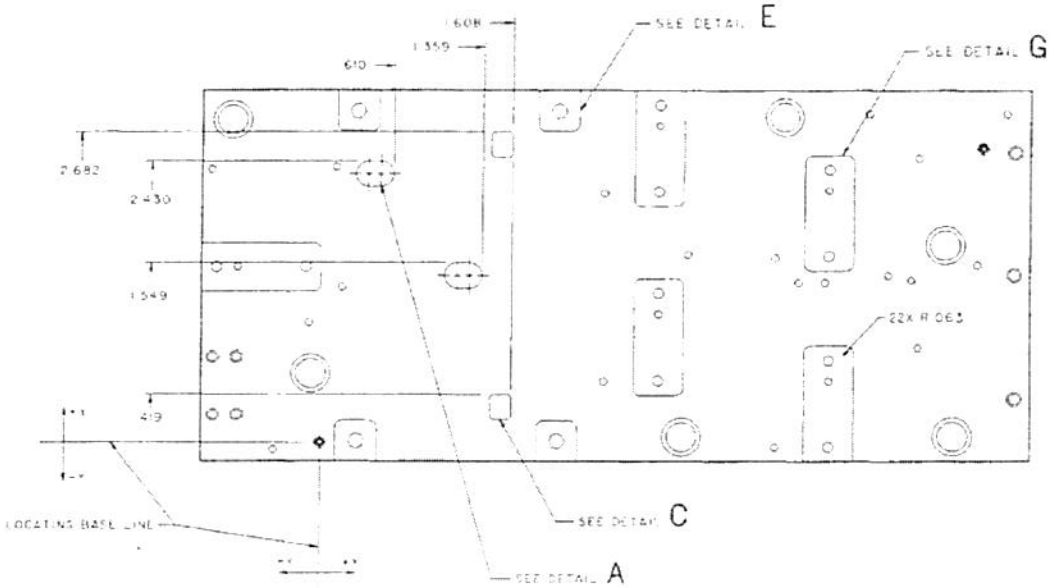
HOLE LEGEND	
SYMBOL	FINISHED SIZE
	.063 ±.002 DIA
	.064 ±.002 DIA
	112-40 THD NO-28 C BORE TO .125 DIA X .031±.005 DP
	.252 ±.002 DIA C BORE TO .328 DIA X .035±.005 DP NEARSIDE THRU TO .328 DIA X .062±.005 DP FARSIDE
	112-40 THD NO-28
	086-56 THD NO-28 C BORE TO .109 DIA X .035±.005 DP
	.126 ±.002 DIA .05X100° TO .250 DIA FARSIDE
	.062 ±.002 DIA

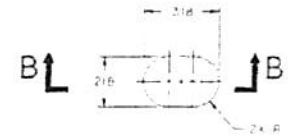
HOLE SYM	COORDINATES X DIM	Y DIM
	5.900	2.840
	5.560	1.530
	5.060	2.490
	5.060	0.922
	5.000	1.400
	3.920	1.440
	4.030	2.940
	4.070	1.380
	4.030	1.380
	3.850	1.590
	3.850	-.040
	3.00	1.620
	2.400	2.150
	2.400	0.530
	0.80	1.340
	0.74	2.378
	-.100	1.040
	-.390	-.060
	-.900	2.360
	5.870	0.380
	5.870	1.440
	5.870	2.500
	5.555	0.053
	5.290	1.700
	3.920	2.93
	3.055	0.051
	-.040	0.60
	-.150	2.790
	4.304	0.74
	4.304	0.36
	4.304	.000
	4.304	2.356
	2.858	0.54
	2.858	2.416
	2.858	1.291
	2.858	2.66
	.126	.50
	-.871	1.50
	-.700	0.740
	-.700	0.240
	.900	0.740
	-.900	0.240
	2.000	2.865
	2.000	0.015
	0.306	0.015
	0.306	2.865
	-.005	1.50
	2.858	2.736
	2.858	1.111
	4.304	2.176
	4.304	0.534

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

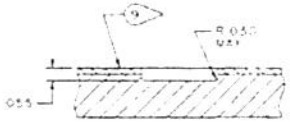
SIZE	CODE NO	DWG NO
D	97942	3D57169
SCALE 2/1	REV LTR	SHEET 2

MECH

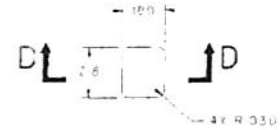




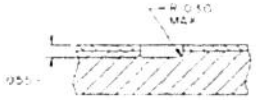
DETAIL A
SCALE 4/1
2 PLACES



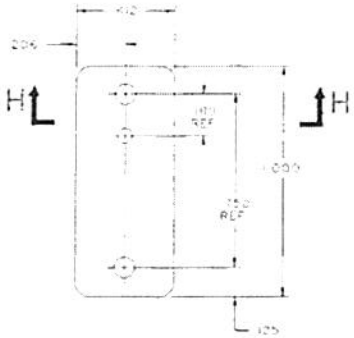
SECTION B-B



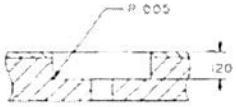
DETAIL C
SCALE 4/1
2 PLACES



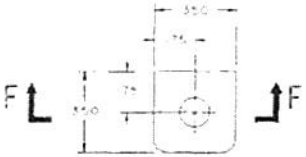
SECTION D-D



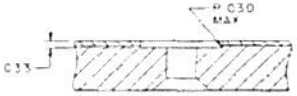
DETAIL G
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
SIMILAR 5 PLACES



SECTION H-H



DETAIL E
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
4 PLACES

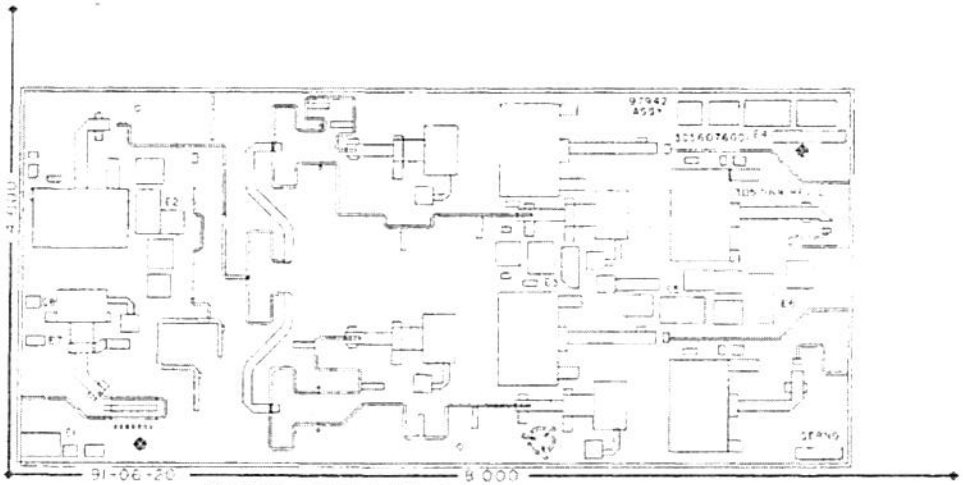


SECTION F-F

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	F.S.C.M. NO	DWG NO	
D	97942	3D57169	
SCALE 2/1	REV LTR	SHEET 3	

MECH



COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	CAGE CODE	DWG NO
D	97942	3D57169
SCALE 2/1	REV C	SHEET 1

PARENTHETIC IDENTITIES ARE FOR REFERENCE ONLY

1. FABRICATE PER (100) EXCEPT PLATED THRU HOLES ARE REQUIRED PER (101) THERMAL SHOCK REQUIREMENT OF (101) DOES NOT APPLY. ETCH OR PRINT USING ARTWORK 3D62055.

COMPONENT SURFACE (1)

LAYER	SPI	1	2
REVISION	A	A	
PROC A	P	S	A

A S=STR ETCH, R=RVS ETCH, B=BLANK (NO FOIL) SURFACE
A=ALUMINUM SURFACE P=USE ONLY FOR FABRICATION OF SOLDER PASTE STENCIL

2. UNLESS OTHERWISE SPECIFIED CONDUCTORS AS FABRICATED (EXCLUDING CHAMFERS) SHALL BE

PROCESSING ALLOWANCE	
MINIMUM CLEARANCE	.011
MINIMUM WIDTH	.013

3. ALL HOLES SHALL BE LOCATED FROM THE INTERSECTION OF THE LOCATING BASE LINES TRUE POSITIONED WITHIN .006 DIAMETER UNLESS OTHERWISE SPECIFIED.

4. ALL LAYERS ARE VIEWED THROUGH LAYER 1 INCLUDING THE DRILL AND TRIM VIEW.

5. WORKMANSHIP PER (06).

6. PLATE ALL EXPOSED ALUMINUM WITH NOT LESS THAN 200 MICROINCHES OF NICKEL PER (02) AND NOT LESS THAN 250 MICROINCHES OF MATTE TIN PER (03). CHROMATE PER (07) IS AN ACCEPTABLE ALTERNATE PROCESS FOR THE SUBSTRATE PERIMETER AND TAPPED HOLES.

7. PLATE COPPER CIRCUITS WITH IMMERSION TIN OR NOT LESS THAN 200 MICROINCHES OF MATTE TIN PER (03).

8. REGISTRATION HOLES USE AS REQUIRED

9. CIRCUITRY SURFACE

10. TOLERANCE APPLIES WITH SURFACE [-A-] RESTRAINED AGAINST A FLAT SURFACE

SHEET REVISION STATUS					
5	4	3	2	1	SHEET NO
	A	-	-	A	REV

DWG NO 3D62055 P+1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	DRAWING RELEASED	93-07-9	S.CARTER
	A	SEE NEW REVISION		

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SEE SEPARATE PARTS LIST

MFG	G.CLEAR
ENVIRONMENTAL	METAL
MOC HOLS SPVL	EL SENS SHC
QUALITY	J.SCHUCKER
MAINTAINABILITY	

SEE PL	SEE PL
NEXT ASSY	USED ON
APPLICATION	

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1982 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE

TOLERANCES ON		
2 PLACE	3 PLACE	ANGLES
± .01	± .005	± 0.5°

SIMILAR TO NONE

INTERPRET DRAWING IAW DOD-STD-100

CONTR NO DTFA01-88-C-00037
ORIGINAL DATE OF DWG 93-07-09

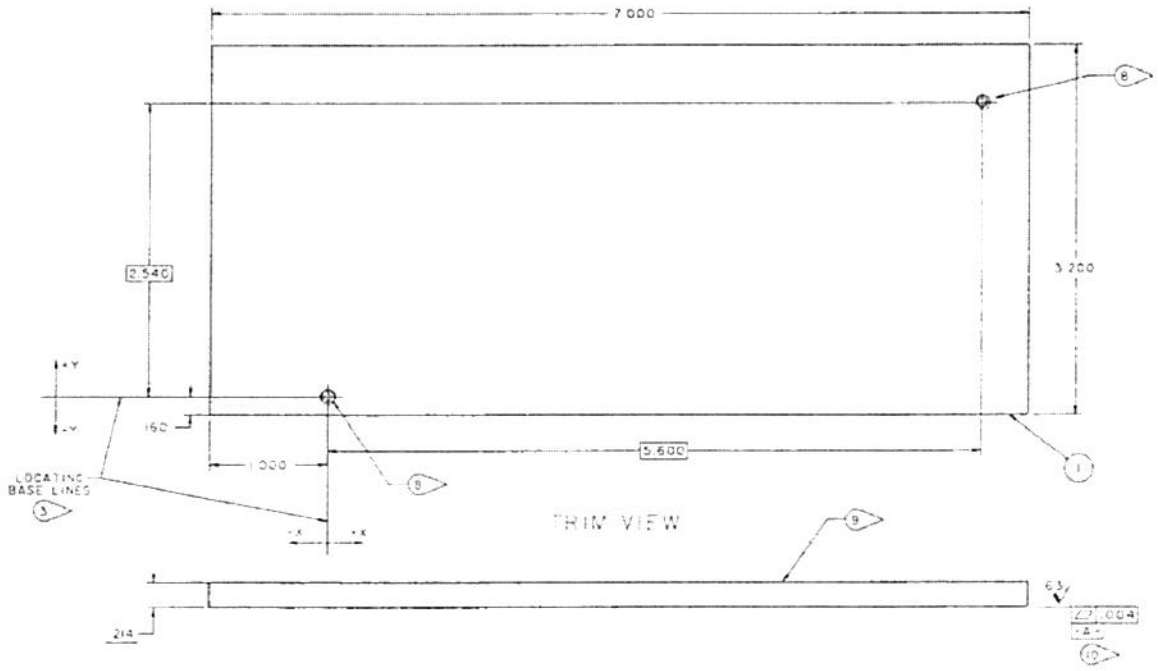
DRAFTER	MECH ENGR
J.S TROTTA	
CHECKED	ELECT ENGR
J.S TROTTA	M.NIEZELSKI
DRFT SUPV	DSGN MGT
E.FISCHER	J.COLOMBECK
CUSTOMER	

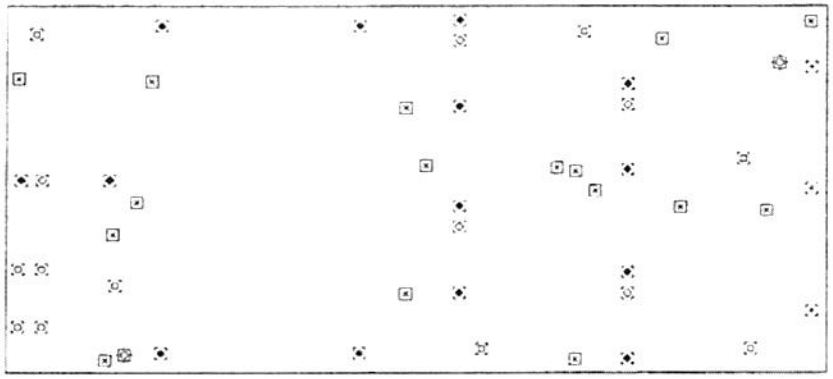
Westinghouse Electric Corporation
BALTIMORE, MARYLAND 21203

PRINTED WIRING BOARD
POWER MODULE

SIZE	CAGE CODE	DWG NO
D	97942	3D62055
SCALE - / -	WEIGHT	SHEET 1 OF 4

MECH





DRILL VIEW

SYMBOL LEGEND	
SYMBOL	DENOTES
⊙	REGISTRATION, NO PLAT NO
□	HOLE, PLATED THRU
⊡	HOLE, PLATING OPTIONAL

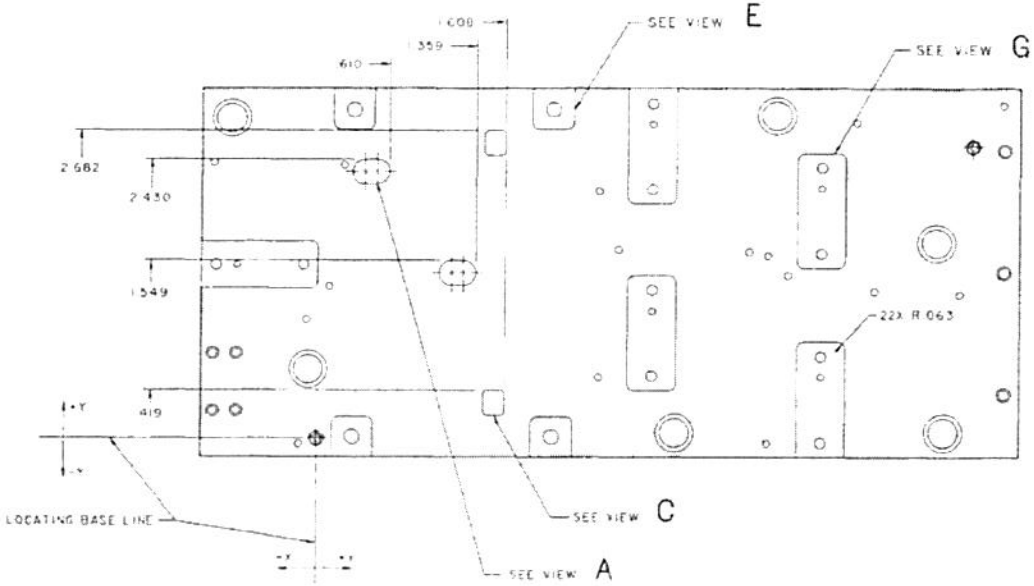
HOLE LEGEND	
SYMBOL	FINISHED SIZE
⊗	.063 ±.002 DIA
⊠	.064 ±.002 DIA
⊡	1/2-40 THD NC-2B C'BORE TO .125 +.020 -.000 DIA X .035±.005 DP
⊗	.252 ±.002 DIA C'BORE TO .328 +.020 -.000 DIA X .035±.005 DP NEARSIDE C'BORE TO .3.2 +.020 -.010 DIA X .0921±.005 DP FARSIDE
⊠	1/2-40 THD NC-2B
⊗	.086-56 THD NC-2B C'BORE TO .109 +.020 -.000 DIA X .035±.005 DP
⊠	.12H +.003 -.002 DIA CSK 100° TO .250 +.015 -.000 DIA FARSIDE
⊗	.062 +.003 -.002 DIA

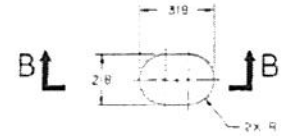
HOLE SYM	COORDINATES X DIM	Y DIM
⊠	5.860	2.900
⊠	5.490	1.250
⊠	4.760	1.280
⊠	4.600	2.750
⊠	4.020	1.420
⊠	3.850	1.590
⊠	3.850	-.040
⊠	3.690	1.620
⊠	2.570	1.640
⊠	2.400	2.150
⊠	2.400	0.530
⊠	0.224	2.378
⊠	0.00	1.320
⊠	-.00	1.040
⊠	-.60	-.050
⊠	-.900	2.400
⊗	5.870	0.380
⊗	5.870	1.440
⊗	5.870	2.500
⊗	5.355	0.053
⊗	5.290	1.700
⊗	3.920	2.82
⊗	3.055	0.051
⊗	-.080	0.601
⊗	-.750	2.790
⊗	4.304	0.714
⊗	4.304	-.056
⊗	4.304	1.606
⊗	4.304	2.356
⊗	2.858	0.541
⊗	2.858	2.96
⊗	2.858	1.291
⊗	2.858	2.466
⊗	-.125	.51
⊗	-.875	1.51
⊗	-.700	0.740
⊗	-.700	0.240
⊗	-.900	0.740
⊗	-.900	0.240
⊗	2.006	2.865
⊗	2.006	0.015
⊗	0.306	0.015
⊗	0.306	2.865
⊗	-.695	1.51
⊗	2.858	2.736
⊗	2.858	1.11
⊗	4.304	2.176
⊗	4.304	0.534

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

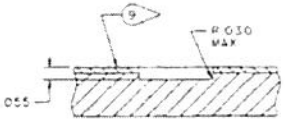
SIZE	CAGE CODE	DWG NO.
D	97942	3D62055
SCALE 2/1	REV LTR -	SHEET 2

MECH

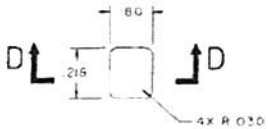




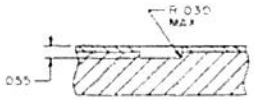
VIEW A
SCALE 4/1
2 PLACES



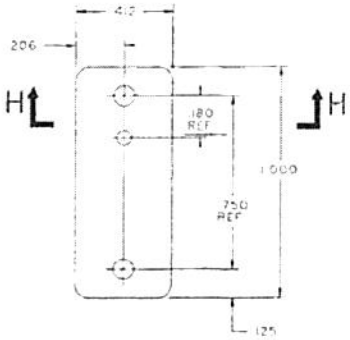
SECTION B-B



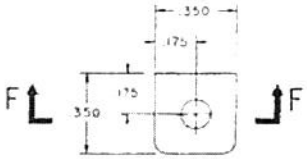
VIEW C
SCALE 4/1
2 PLACES



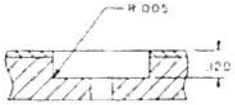
SECTION D-D



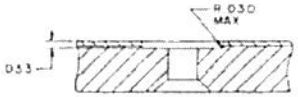
VIEW G
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
SIMILAR 5 PLACES



VIEW E
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
4 PLACES



SECTION H-H

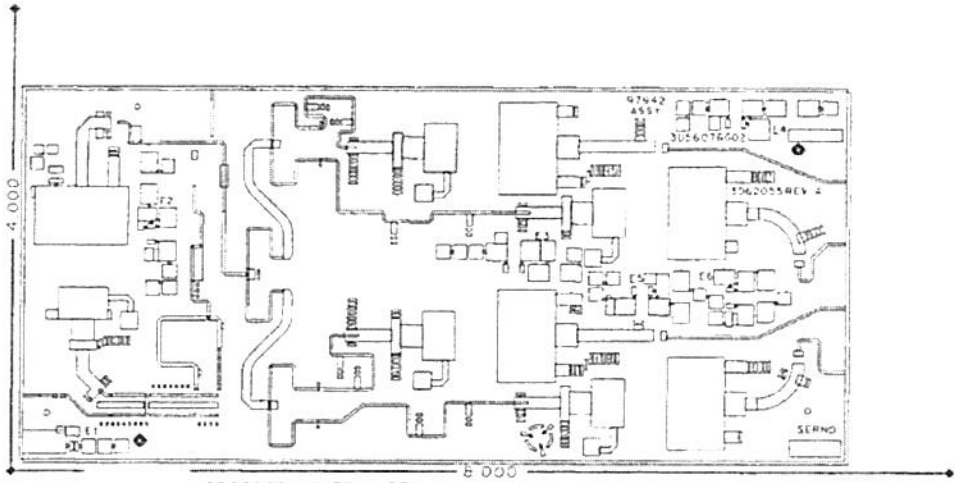


SECTION F-F

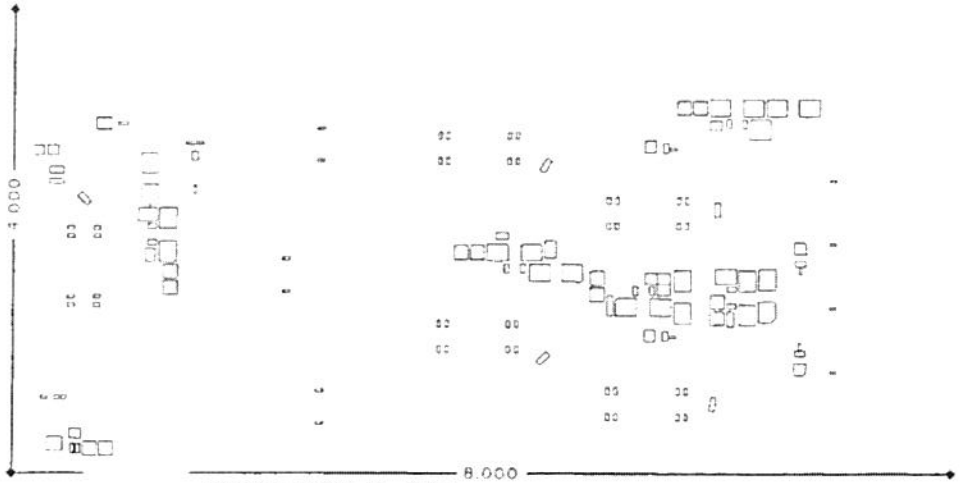
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	CAGE CODE	DWG NO
D	97942	3D62055
SCALE 2/1	REV LTR -	SHEET 3

MECH



3D62055 LAYER 1 REV A



3D62055 LAYER SP REV A

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	CAGE CODE	DWG NO
D	97942	3D62055
SCALE 2/1	REV LTR A	SHEET 4

MECH

PARENTHETIC DIMENSIONS ARE FOR REFERENCE ONLY

1. FABRICATE PER (100) EXCEPT PLATED THRU HOLES ARE REQUIRED PER (10) THERMAL SHOCK REQUIREMENT OF (101) DOES NOT APPLY. ETCH OR PRINT USING ARTWORK 3062738

COMPONENT SURFACE (1)

LAYER	1	2
REVISION	A	
ETCH A	S	A

A S=STR ETCH, R=RVS ETCH, B=BLANK (NO FOIL) SURFACE
A=ALUMINUM SURFACE

2. UNLESS OTHERWISE SPECIFIED CONDUCTORS AS FABRICATED (EXCLUDING CHAMFERS) SHALL BE

PROCESSING ALLOWANCE	
MINIMUM CLEARANCE	.014
MINIMUM WIDTH	.011

3. ALL HOLES SHALL BE LOCATED FROM THE INTERSECTION OF THE LOCATING BASE LINES TRUE POSITIONED WITHIN .006 DIAMETER UNLESS OTHERWISE SPECIFIED
4. ALL LAYERS ARE VIEWED THROUGH LAYER 1 INCLUDING THE DRILL AND TRIM VIEW.
5. WORKMANSHIP PER (106).
6. PLATE ALL EXPOSED ALUMINUM WITH NOT LESS THAN 200 MICROINCHES OF NICKEL PER (102) AND NOT LESS THAN 250 MICROINCHES OF MATTE TIN PER (103). CHROMATE PER (107) IS AN ACCEPTABLE ALTERNATE PROCESS FOR THE SUBSTRATE PERIMETER AND TAPPED HOLES.
7. PLATE COPPER CIRCUITS WITH IMMERSION TIN OR NOT LESS THAN 200 MICROINCHES OF MATTE TIN PER (103).
8. REGISTRATION HOLES USE AS REQUIRED
9. CIRCUITRY SURFACE
10. TOLERANCE APPLIES WITH SURFACE -A- RESTRAINED AGAINST A FLAT SURFACE.

SHEET REVISION STATUS					
5	4	3	2	1	SHEET NO
	G	-	-	A	REV

DWG NO 3D62738 REV A

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	DRAWING RELEASED	93-12-13	S CARTER
	A	ARTWORK REVISED SEE REV RECORD		

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SEE SEPARATE PARTS LIST

MS	MFG		
---	---		
ENVIRONMENT/TEMPEST	RELIB		
---	---		
MIL PORS SPEC	EL SEAS DHC		
---	---		
QUALITY	MAINTAINABILITY		
J SCHUCKER	---		

SEE PL	SEE PL
NEXT ASSY	USED ON
APPLICATION	

INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1982 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES ON

2 PLACE	3 PLACE	ANGLES
± 0.1	± .005	± 0.5°

SIMILAR TO 3062055 REV A

INTERPRET DRAWING IAW DOD-STD-100

CONTR NO D7A03-88-C-00037
ORIGINAL DATE OF DWG 9-5-12-03

DRAFTER	MECH ENGR
C AIREY	C CLARK
CHECKED	ELEC ENGR
C A REY	J HAWKINS
OPT'L SUPV	DSGN MGT
S CARTER	J COLOMBECK
CUSTOMER	

Westinghouse Electric Corporation
BALTIMORE, MARYLAND 21203

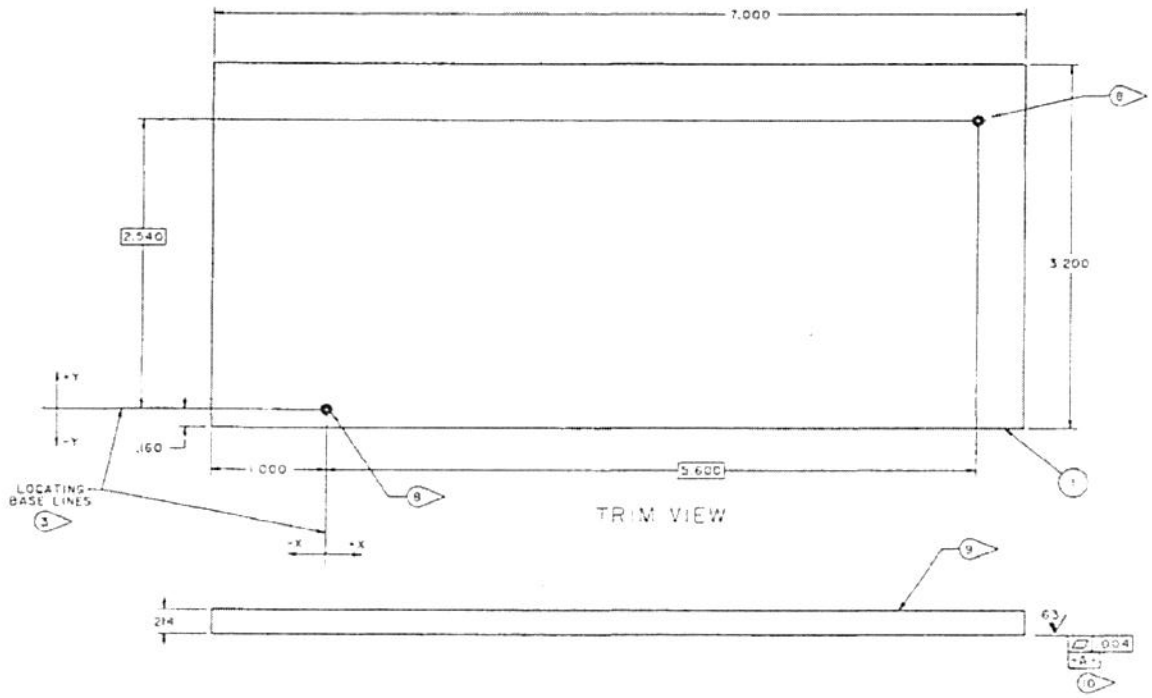
PRINTED WIRING BOARD
POWER MODULE

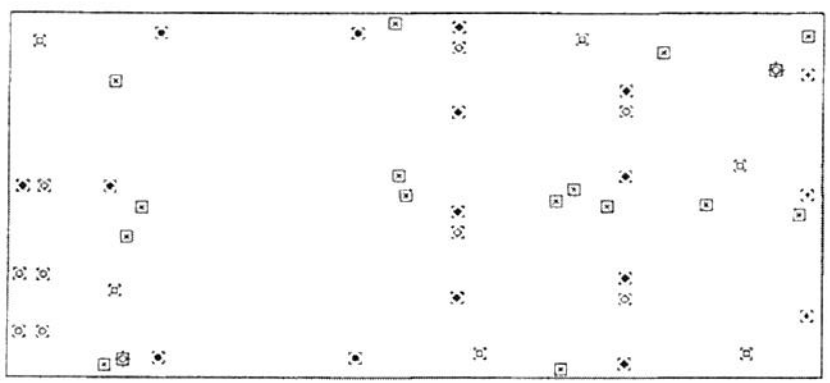
SIZE	CAGE CODE	DWG NO
D	97942	3D62738

SCALE NONE WEIGHT SHEET 1 OF 4

MECH

DWG NO 3D62738 SH 2





DRILL VIEW

SYMBOL LEGEND	
SYMBOL	DENOTES
	REGISTRATION, NO PLATING
	HOLE, PLATED THRU
	HOLE, PLATING OPTIONAL

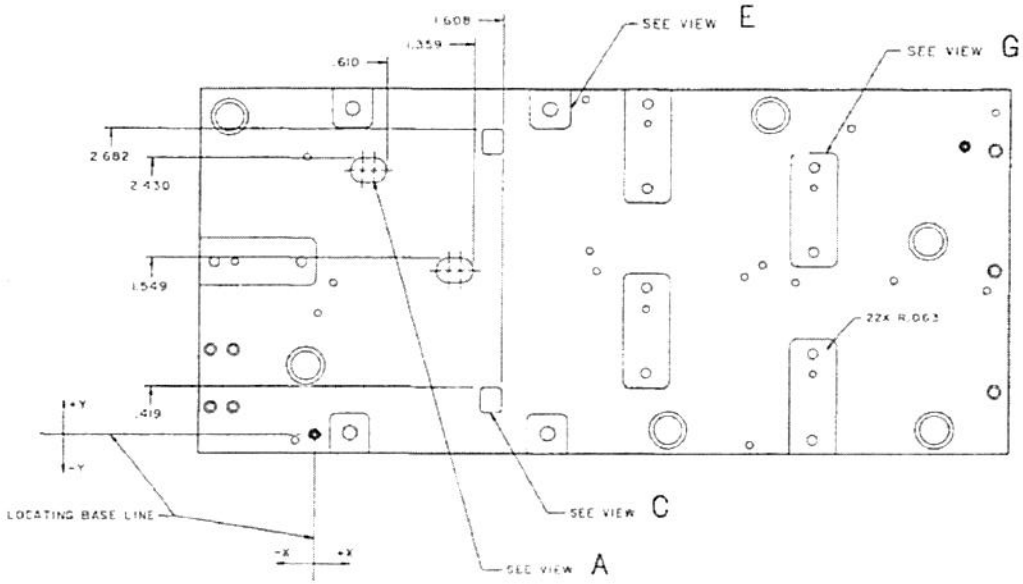
HOLE LEGEND	
SYMBOL	FINISHED SIZE
	.063 ±.002 DIA
	.064 ±.002 DIA
	.112-40 THD NC-2B C'BORE TO .125 +.020 -.010 DIA X .035±.005 DP
	.252 ±.002 DIA C'BORE TO .328 +.020 -.010 DIA X .035±.005 DP NEARSIDE C'BORE TO .312 +.020 -.010 DIA X .082±.005 DP FARSIDE
	.112-40 THD NC-2B
	.086-56 THD NC-2B C'BORE TO .109 +.020 -.010 DIA X .035±.005 DP
	.128 +.005 -.002 DIA CSK 100° TO .250 +.016 -.000 DIA FARSIDE
	.062 +.003 -.002 DIA

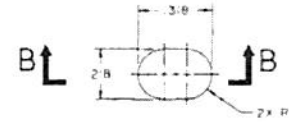
HOLE SYM	COORDINATES X DIM	Y DIM
	5.872	2.838
	5.802	1.267
	4.997	1.355
	4.623	2.694
	4.144	1.341
	3.663	1.491
	3.762	-.082
	3.707	1.388
	2.417	1.437
	2.358	1.612
	2.317	2.953
	0.149	1.328
	0.021	1.069
	-.084	2.436
	-.165	-.049
	5.870	0.360
	5.870	1.440
	5.870	2.500
	5.355	0.053
	5.290	1.700
	3.920	2.812
	3.055	0.051
	-.080	0.601
	-.750	2.790
	4.304	0.714
	4.304	-.036
	4.304	1.606
	4.304	2.556
	2.858	0.541
	2.858	2.916
	2.858	1.291
	2.858	2.166
	-.125	1.511
	-.875	1.511
	-.700	0.740
	-.700	0.240
	-.900	0.740
	-.900	0.240
	2.006	2.865
	2.006	0.015
	0.306	0.015
	0.306	2.865
	-.695	1.511
	2.858	2.736
	2.858	1.111
	4.304	2.176
	4.304	0.534

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

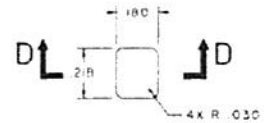
SIZE	CAGE CODE	DWG NO
D	97942	3D62738
SCALE 2/1	REV LTR -	SHEET 2

MECH

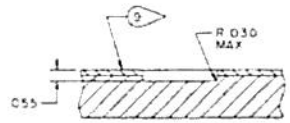




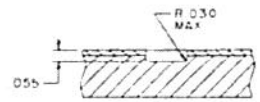
VIEW A
SCALE 4/1
2 PLACES



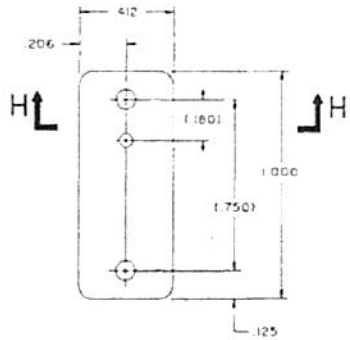
VIEW C
SCALE 4/1
2 PLACES



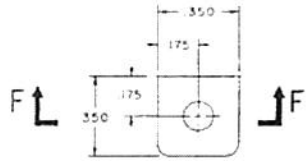
SECTION B-B



SECTION D-D

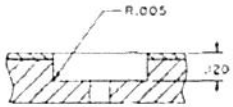


VIEW G
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
SIMILAR 5 PLACES



VIEW E
SCALE 4/1
ORIENTATION TO BE AS SHOWN
IN TOP VIEW
4 PLACES

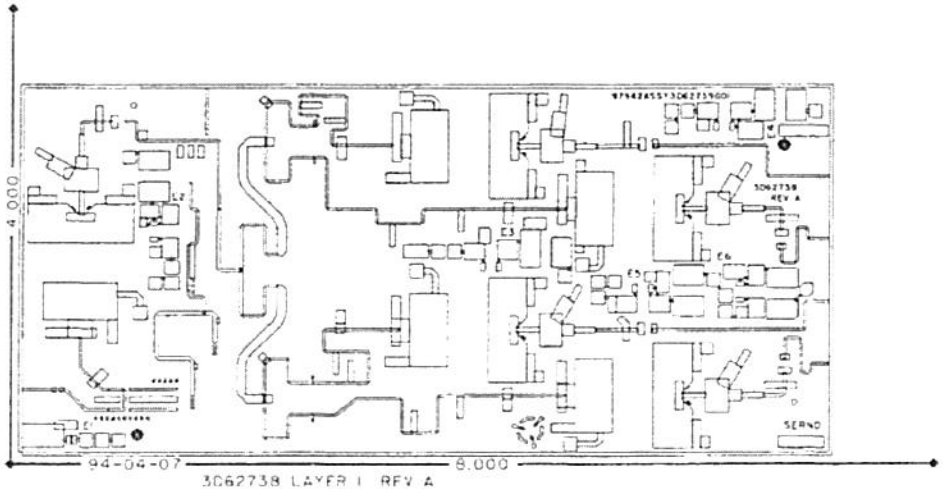
SECTION F-F



SECTION H-H

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	CAGE CODE	DWG NO
D	97942	3D62738
SCALE 2/1	REV LTR -	SHEET 3



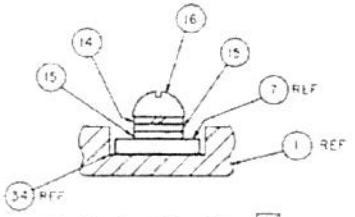
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SIZE	CAGE CODE	DWG NO	
D	97942	3D62738	
SCALE 2/1	REV LTR A	SHEET 4	

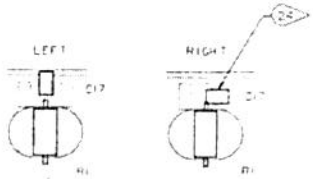
MECH.

PARENTHETIC IDENTITIES ARE FOR REFERENCE ONLY

1. ASSEMBLE PER (101)
2. BOND (5), (6) AND (26) TO (1) USING CONDUCTIVE ADHESIVE PER (101)
3. MARK PER (103)
4. MARK "MFR" AND MFR CAGE IF MFR IS OTHER THAN THE DESIGN ACTIVITY, APPROX. AS SHOWN
5. CIRCUITRY SHOWN USING DASH-LINES FOR DRAWING CLARITY
6. ASSEMBLE (7) AND (34) TO (1). CENTER EMITTER OF (7) WITH PAD APPROXIMATELY AS SHOWN. PUSH (7) AND (34) TO COLLECTOR SIDE OF POCKET. REFERENCE VIEW C FOR LEAD IDENTIFICATION. THE ADDITION OF A THIRD (5) AT EACH MOUNTING LOCATION IS PERMISSIBLE ONLY TO MEET HARDWARE PROTRUSION REQUIREMENTS. (12)
7. C1 THRU C18 TO BE MOUNTED ON EDGE. SEE VIEW E
8. (32) FOIL SHALL HAVE THE MINIMUM WIDTH OF .12 INCH AND THE CONTACT LENGTH OF .05 INCH MINIMUM ON (1)
9. NO COMPONENT TO EXCEED 1.02 IN. MAX ABOVE THE BOARD SURFACE
10. KEEP THIS AREA SOLDER FREE
11. TEST PER (104) EXCEPT (8) SHALL NOT BE INSTALLED
12. NO HARDWARE PROTRUSION PERMITTED BEYOND THIS SURFACE
13. - DELETED
14. FOR THIS LEAD ONLY, THE LENGTH SHALL BE 0.080 MAX. THE MINIMUM CONTACT LENGTH FOR THE OTHER LEAD SHALL BE .020 INCH
15. AFTER ASSEMBLY OF (8) TO (1), CHECK THE CONTINUITY FROM THE LEADS OF (8) TO THE GROUND OF (1) TO INSURE THEY ARE NOT SHORTED
16. MOUNT LEADS OF R2, R3 AND R4 PER (101) EXCEPT MINIMUM CONTACT LENGTH SHALL BE 0.015 INCHES. DO NOT EXTEND LEADS BEYOND TRACKS
17. TORQUE (16) TO 52 IN-OZ ± 4 IN-OZ PER (101)
18. SOLDER (30) PER (101) APPROX. AS SHOWN EXCEPT NO OTHER SUPPORT IS REQUIRED. TILT L2 AS NEEDED TO AVOID MOUNTING INTERFERENCE WITH (8)
19. ALIGN C12 TO LEFT SIDE OF PAD APPROXIMATELY AS SHOWN
20. L1-L5 MAY BE SOLDERED TO COLLECTOR LEAD OF Q1-Q5
21. E2 PAD LOCATION IS ADJACENT PAD ON LEFT OF E2 MARKING OR ANY CONNECTED PAD
22. E3 PAD LOCATION IS ADJACENT PAD BELOW E3 MARKING OR ANY CONNECTED PAD
23. E4 PAD LOCATION
24. SOLDERING OF C17 ONTO R1 LEAD IS ALLOWABLE

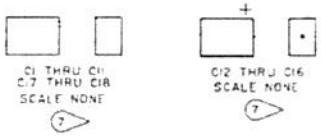


SECTION C-C (SH 2 & 3)
SCALE NONE
10 PLACES

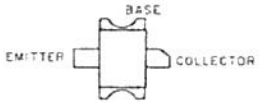


VIEW F
SCALE 4/1

MANUFACTURING IS TO ASSEMBLE PER LEFT VIEW PRIOR TO TEST. POSITION OF C17 MAY BE CHANGED AT TEST, AS SHOWN IN RIGHT VIEW. IF REQUIRED. EITHER CONFIGURATION IS ACCEPTABLE



VIEW E



Q1 THRU Q5
SCALE NONE
6

VIEW G

CAUTION

THIS UNIT CONTAINS ELECTROSTATIC DISCHARGE (ESD) SENSITIVE DEVICES AND MUST BE TREATED IN ACCORDANCE WITH APPROPRIATE ESD HANDLING PROCEDURES.

SERIALIZED ASSEMBLY

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED

SEE SEPARATE PARTS LIST

SHEET REVISION STATUS					
5	4	3	2	1	SHEET NO
		D	D	D	REV

DWG NO 3D62739 SH 1 | ID772496 1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	-	DRAWING RELEASED	94-02-16	S CARTER
P.L.	A	SEE REV MC430		
	B	SHEET 3 ADDED SEE REV MM6.8 02 DRA/CRA	94-04-26	S CARTER J HAWKINS
	C	SEE REV MC-0 D DRA/CRA	94-08-15	S CARTER J HAWKINS
	D	SEE REV MC342 03 DRA/CRA	95-11-03	

(3)

CS ---	MFG B. VAISHNAV			INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M 1982 UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES ON	CONTR NO DTFA01-88-C-00037
DWG/COMPEST ---	REGAL J HOEHL			2 PLACE ± --- / 3 PLACE ± --- / ANGLES ± ---	DATE REL / DATE OF DWG 93-12-03
MOD HDWS SPEC ---	EL SEALS SPEC ---	SEE PL NEXT ASSY	SEE PL USED ON	SIMILAR TO 3D56076 REV K	DRAFTER C AIREY / MECH ENGR ---
QUALITY J SCHUCKER	MAINTAINABILITY ---	APPLICATION		INTERPRET DRAWING IAW DOD-STD-100	CHECKED C AIREY / ELEC ENGR J HAWKINS
					DRFT SUPV S CARTER / DSGN MGT J COLOMBECK
					CUSTOMER

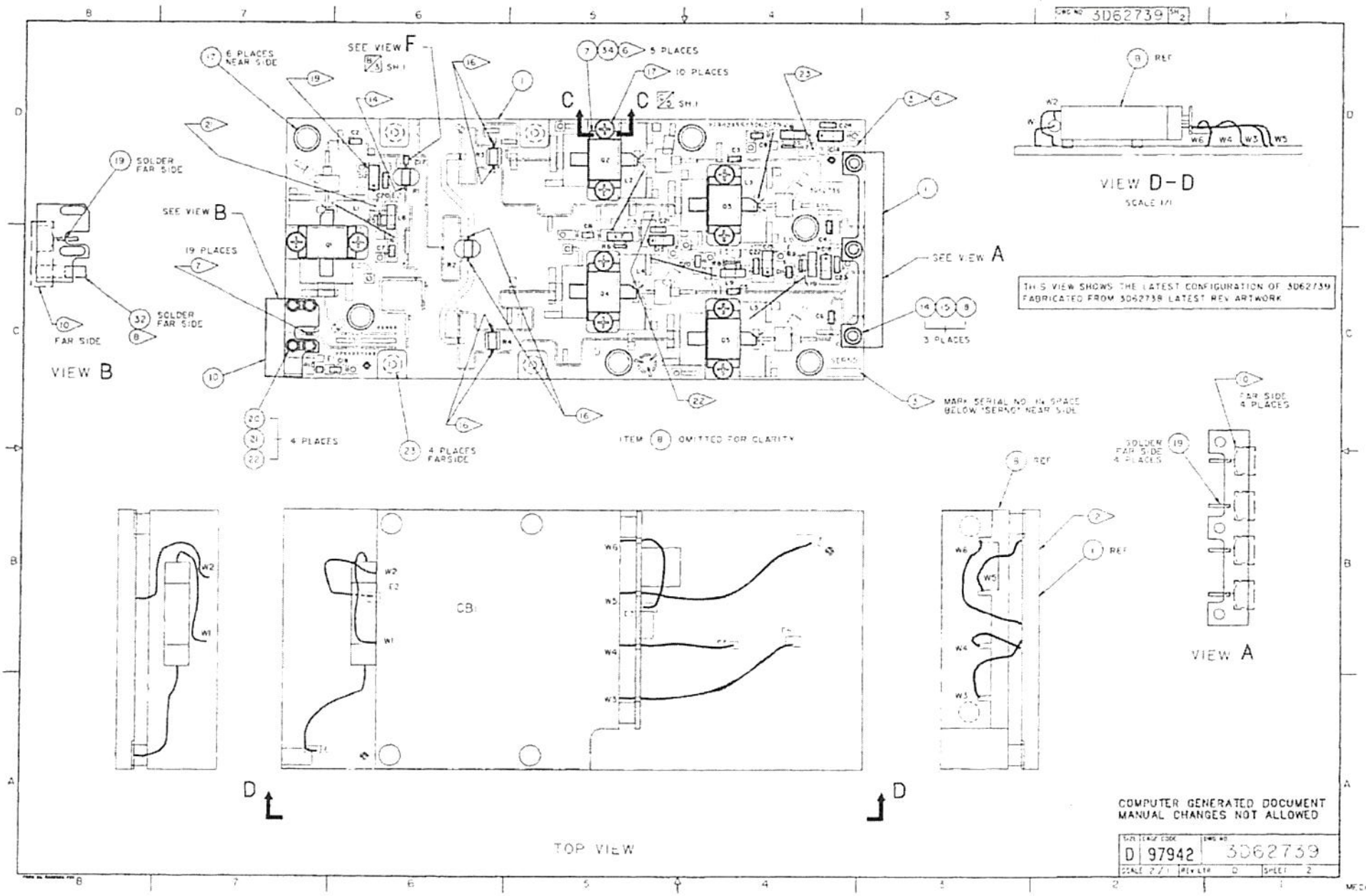
Westinghouse Electric Corporation
BALTIMORE, MARYLAND 21203

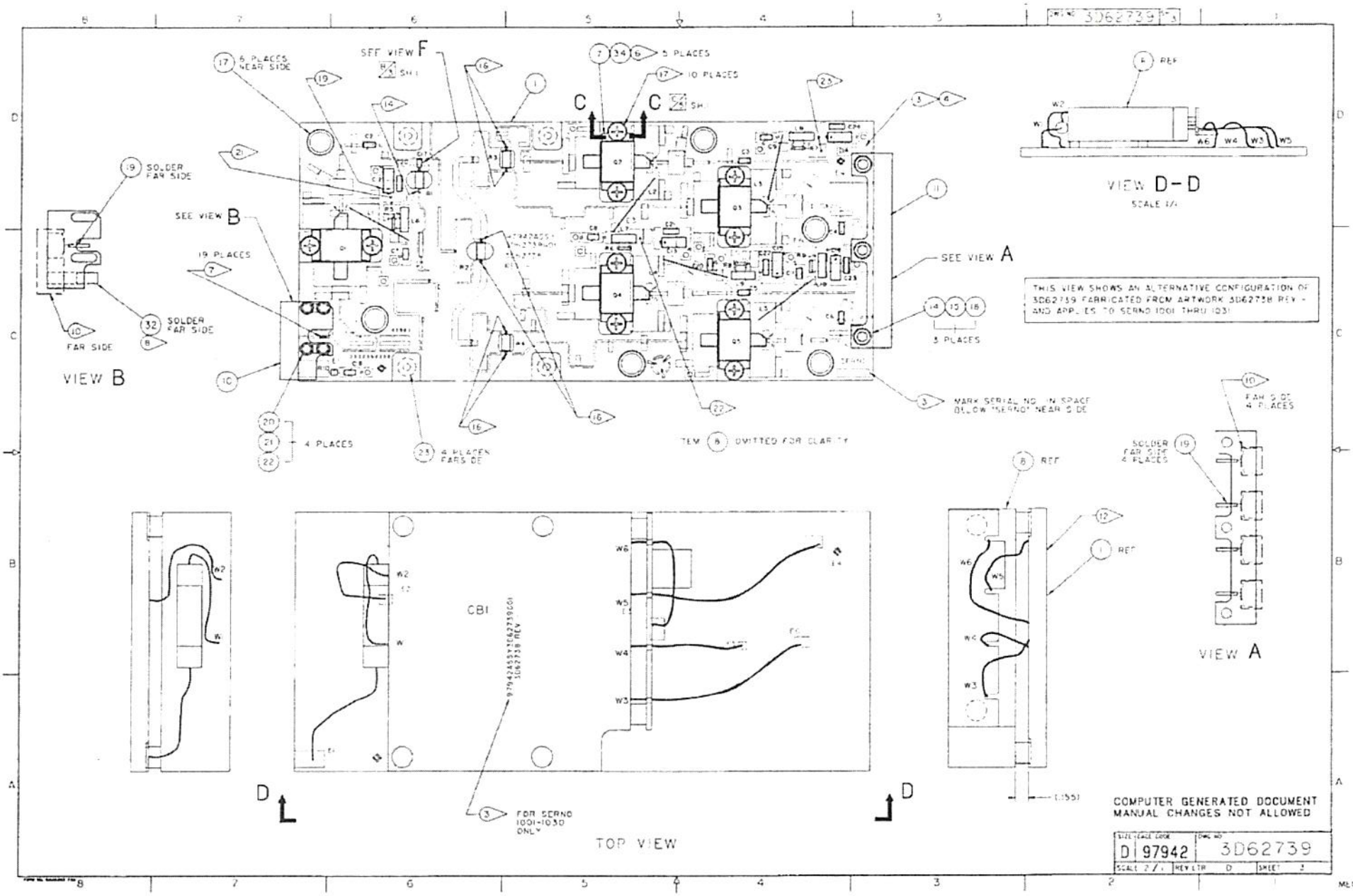
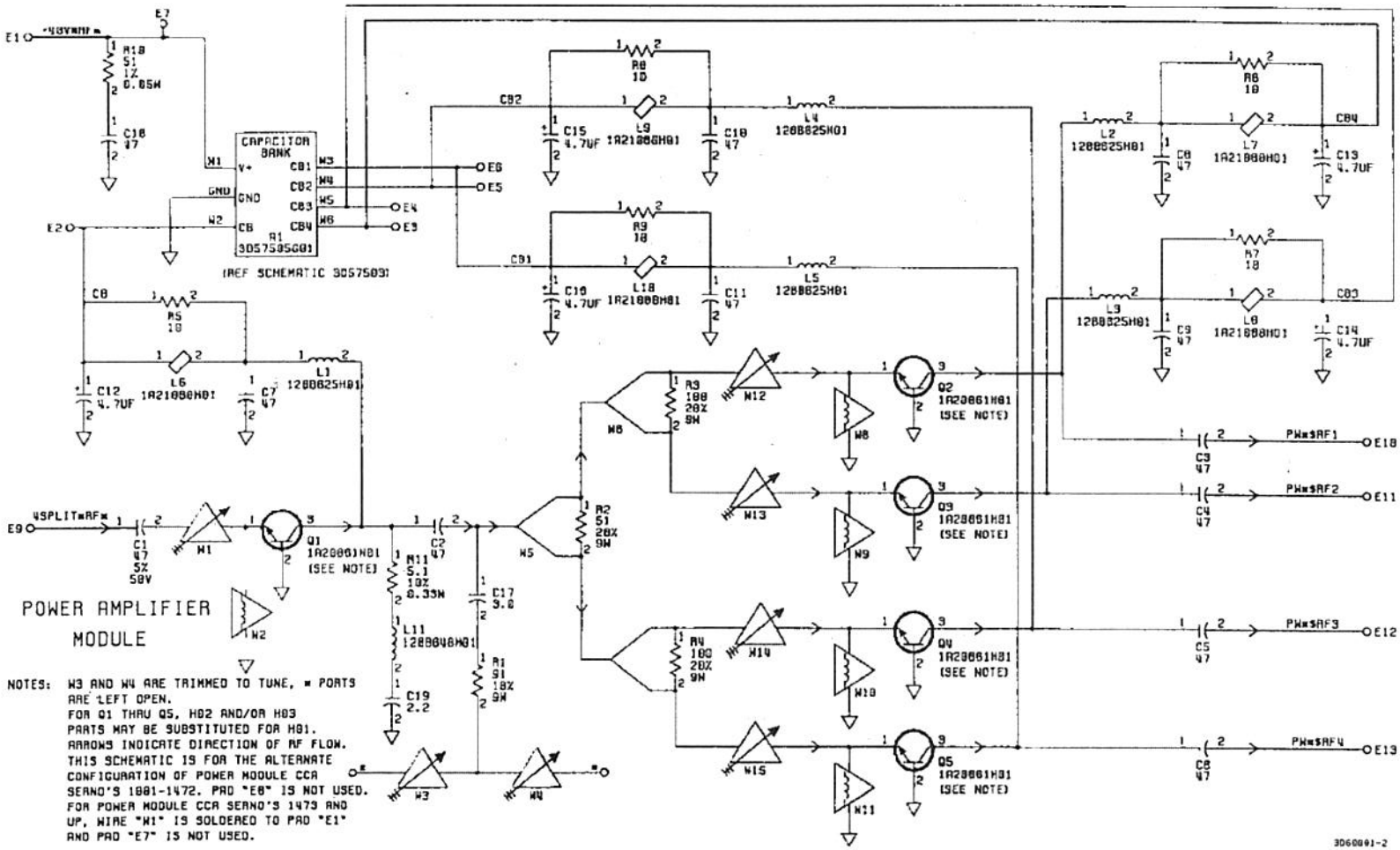
CIRCUIT CARD ASSEMBLY
POWER MODULE

SIZE	CAGE CODE	DWG NO
D	97942	3D62739

SCALE NONE | WEIGHT | SHEET 1 OF 3

MECH


SHEET NO 3D62739 SH 2
6 PLACES NEAR SIDE
SEE VIEW F
SH 1
5 PLACES
10 PLACES
SH 1
C
C
REF
W2
W6
W4
W3
W5
VIEW D-D
SCALE 1/1
SOLDER FAR SIDE
SEE VIEW B
19 PLACES
SEE VIEW A
THIS VIEW SHOWS THE LATEST CONFIGURATION OF 3D62739 FABRICATED FROM 3D62738 LATEST REV ARTWORK
SOLDER FAR SIDE
FAR SIDE
VIEW B
3 PLACES
MARK SERIAL NO. IN SPACE BELOW "SERVO" NEAR SIDE
4 PLACES
4 PLACES FARSIDE
ITEM 8 OMITTED FOR CLARITY
FAR SIDE 4 PLACES
SOLDER FAR SIDE 4 PLACES
REF
REF
W2
W1
W2
E2
W1
CB1
W6
W5
W4
W3
W6
W5
W4
W3
VIEW A
D
D
TOP VIEW
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED
D 97942
3D62739
SCALE 2/1
REV LTR D
SHEET 2
MECH


SEE VIEW F
6 PLACES NEAR SIDE
5 PLACES
10 PLACES
SEE VIEW B
19 PLACES
SOLDER FAR SIDE
FAR SIDE
VIEW B
SEE VIEW A
3 PLACES
MARK SERIAL NO. IN SPACE BELOW "SERVO" NEAR SIDE
4 PLACES
4 PLACES FARSIDE
ITEM 8 OMITTED FOR CLARITY
REF
VIEW D-D
SCALE 1/1
THIS VIEW SHOWS AN ALTERNATIVE CONFIGURATION OF 3D62739 FABRICATED FROM ARTWORK 3D62738 REV - AND APPLIES TO SERVO 1001 THRU 1031
FAR SIDE 4 PLACES
SOLDER FAR SIDE 4 PLACES
VIEW A
CBI
FOR SERVO 1001-1030 ONLY
TOP VIEW
COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED
D 97942 3D62739
SCALE 2/1 REV LTR D SHEET 3

COMPUTER GENERATED DOCUMENT
MANUAL CHANGES NOT ALLOWED