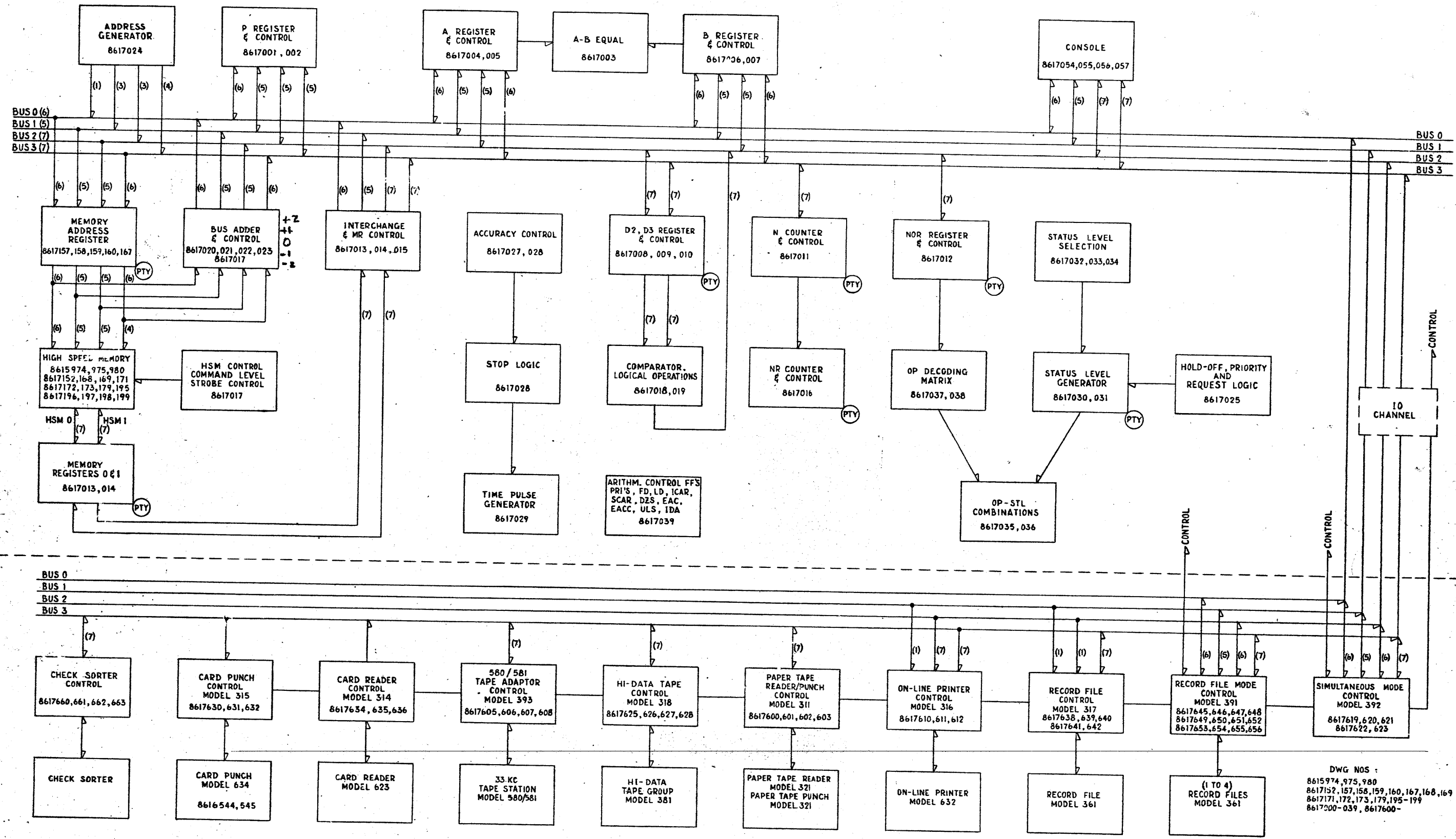


DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	10
DATE	



PRI-84

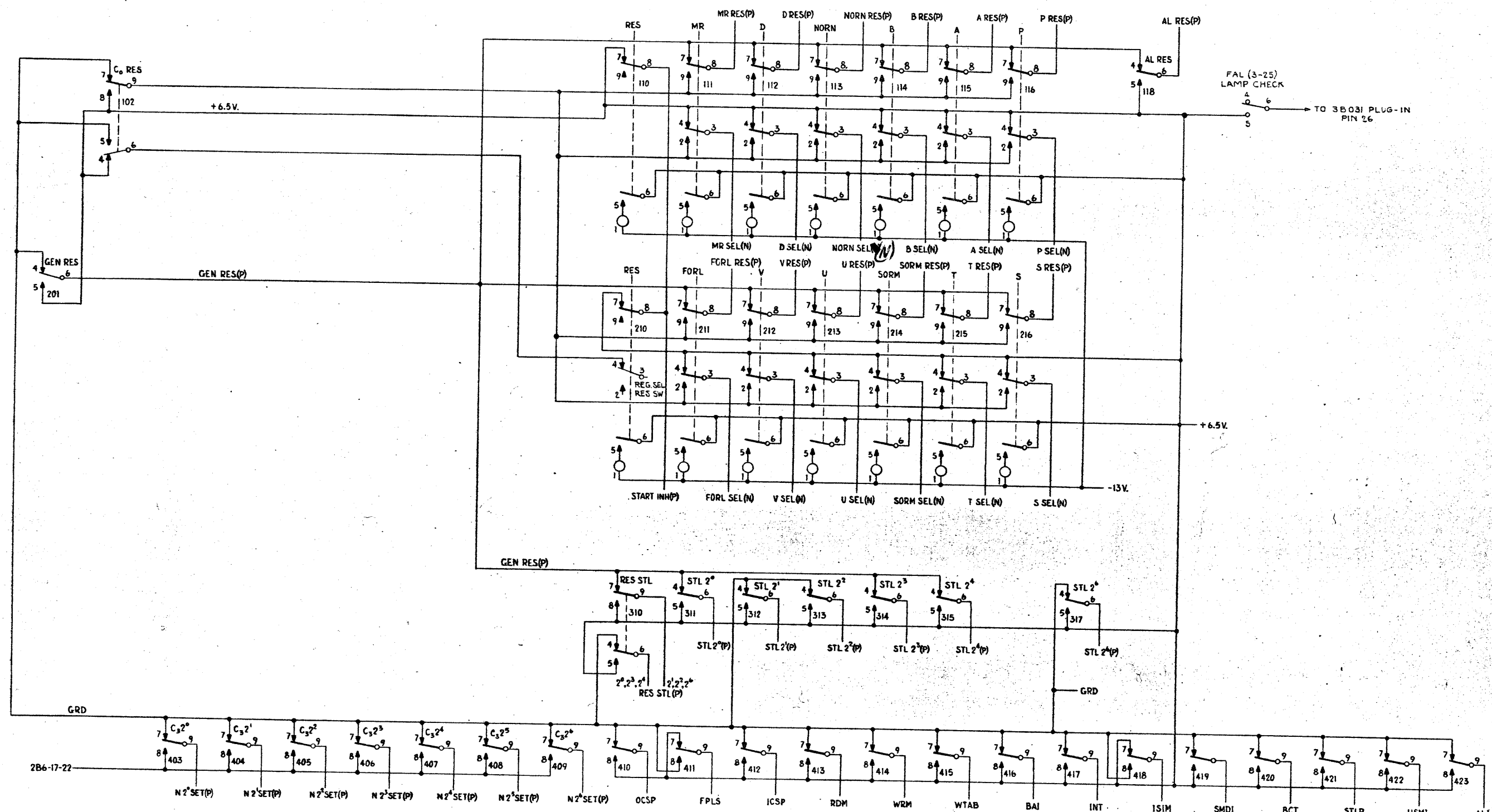
STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE PRELIMINARY

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		BLOCK DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 8	±.002	±.005	±.010
8 TO 24	±.005	±.010	±.015
ABOVE 24	±.008	±.015	±.020
ANGULAR DIMENSIONS	SEE PURCH SPEC FOR FIT & TOLERANCE		
FIRST MADE FOR		USED ON	
DRAWN BY <i>S. J. ...</i>		CHECKED BY <i>...</i>	
DESIGNED BY <i>S. J. ...</i>		COMMODITY CODE	
RADIO CORPORATION OF AMERICA CAMDEN N.J.		D 8617000	
CODE IDENT NO. 49671		SIZE	

8617000

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	M. J. ...
DATE	...
REVISION	...
REVISION	...
REVISION	...



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE
PRELIMINARY

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		SCHEMATIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS
UP TO 6	±.01	±.005	±.002
ABOVE 6 TO 24	±.02	±.010	±.005
ABOVE 24	±.04	±.015	±.010
ANGULAR DIMENSIONS	±.01		
SEE PUNCH SPEC FOR STOCK TOLERANCES			
FIRST MADE FOR M1-39250		USED ON 8511931	
DRAWN BY <i>C. E. ...</i>		CHECKED BY <i>...</i>	
DESIGNED BY <i>...</i>		COMMODITY CODE	
RADIO CORPORATION OF AMERICA CAMDEN, N.J.		D 8617058	
CODE IDENT NO. 49671		SIZE	

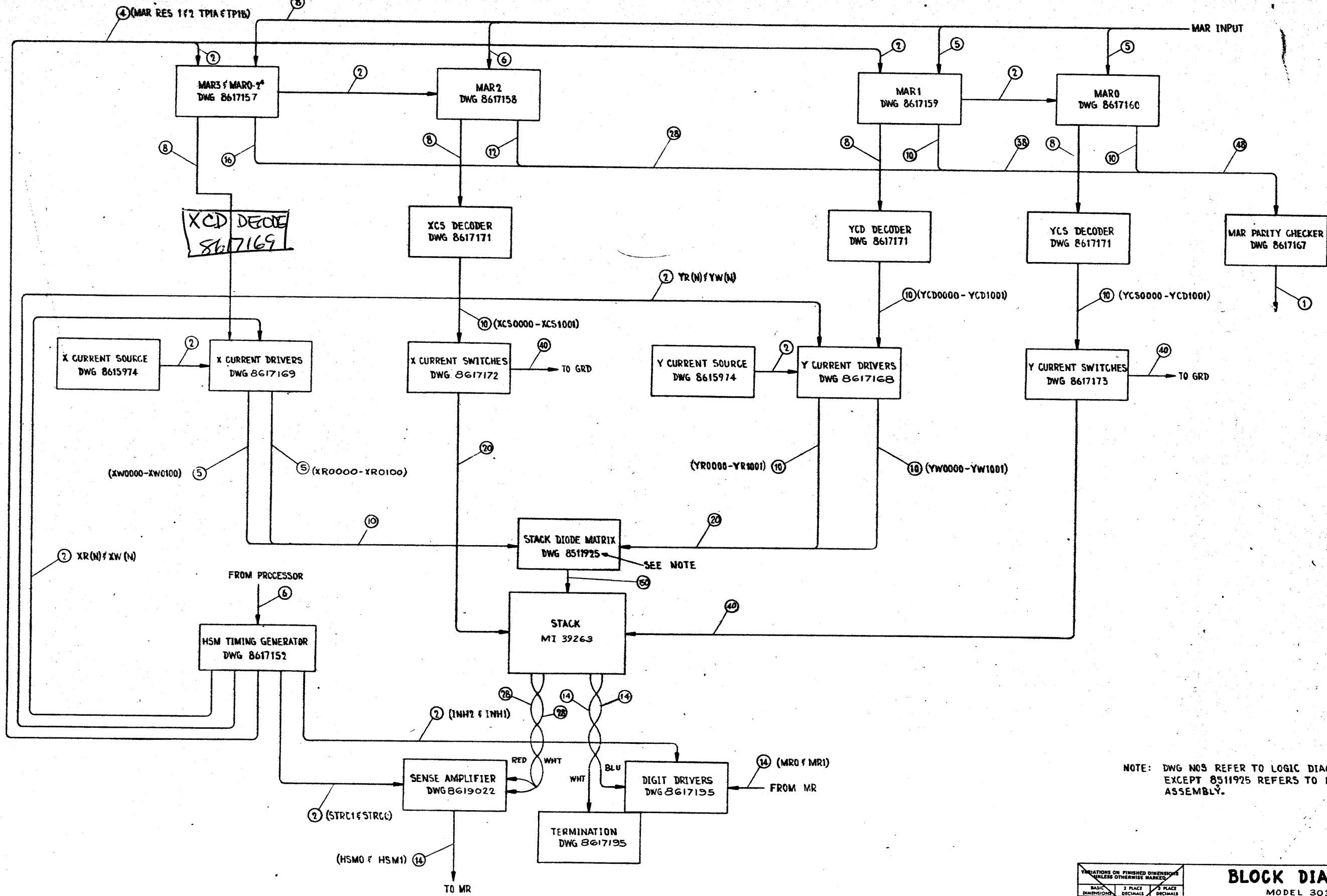
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8617058

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	DATE
	17 Jul 1961



NOTE: DWG NOS REFER TO LOGIC DIAGRAMS, EXCEPT 8511925 REFERS TO MD301 ASSEMBLY.

STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

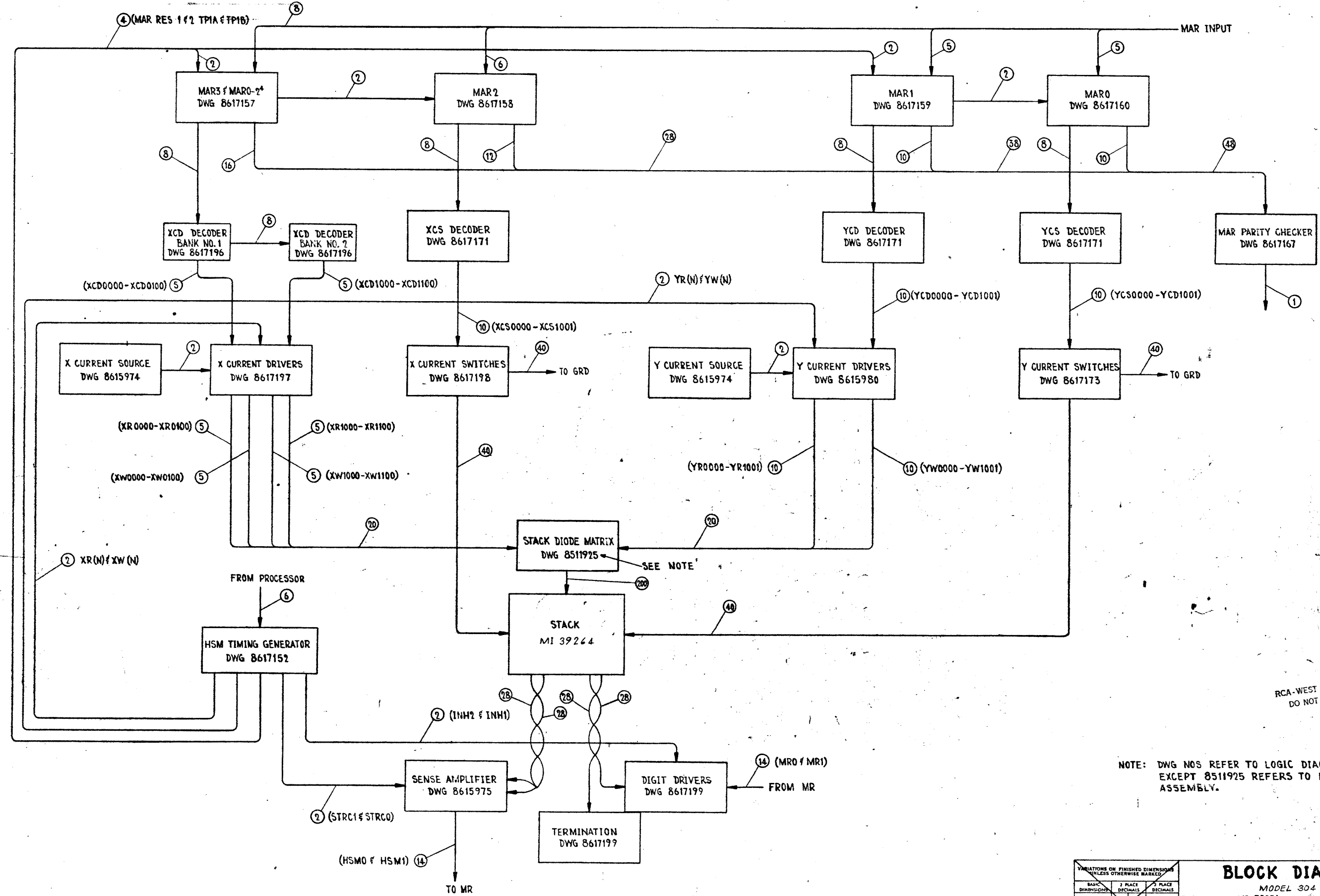
8619041

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			BLOCK DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	MODEL 303	
UP TO 6	± .02	± .005	FIRST MADE FOR MI-3925	USED ON 8511953-
ABOVE 6 TO 24	± .01	± .010	DRAWN BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>
ABOVE 24	± .00	± .015	DESIGNED BY <i>[Signature]</i>	COMMODITY CODE
ANGULAR DIMENSIONS	± .5°		RADIO CORPORATION OF AMERICA	
SEE PURCH. SPEC FOR STOCK TOLERANCE			SIZE	D 8619041
			CODE IDENT NO. 49671	

002

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	17 Jan 1961
DESIGNED BY: <i>[Signature]</i>	
DRAWN BY: <i>[Signature]</i>	
CHECKED BY: <i>[Signature]</i>	
DATE: 8 Jan 1961	



RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMPEN

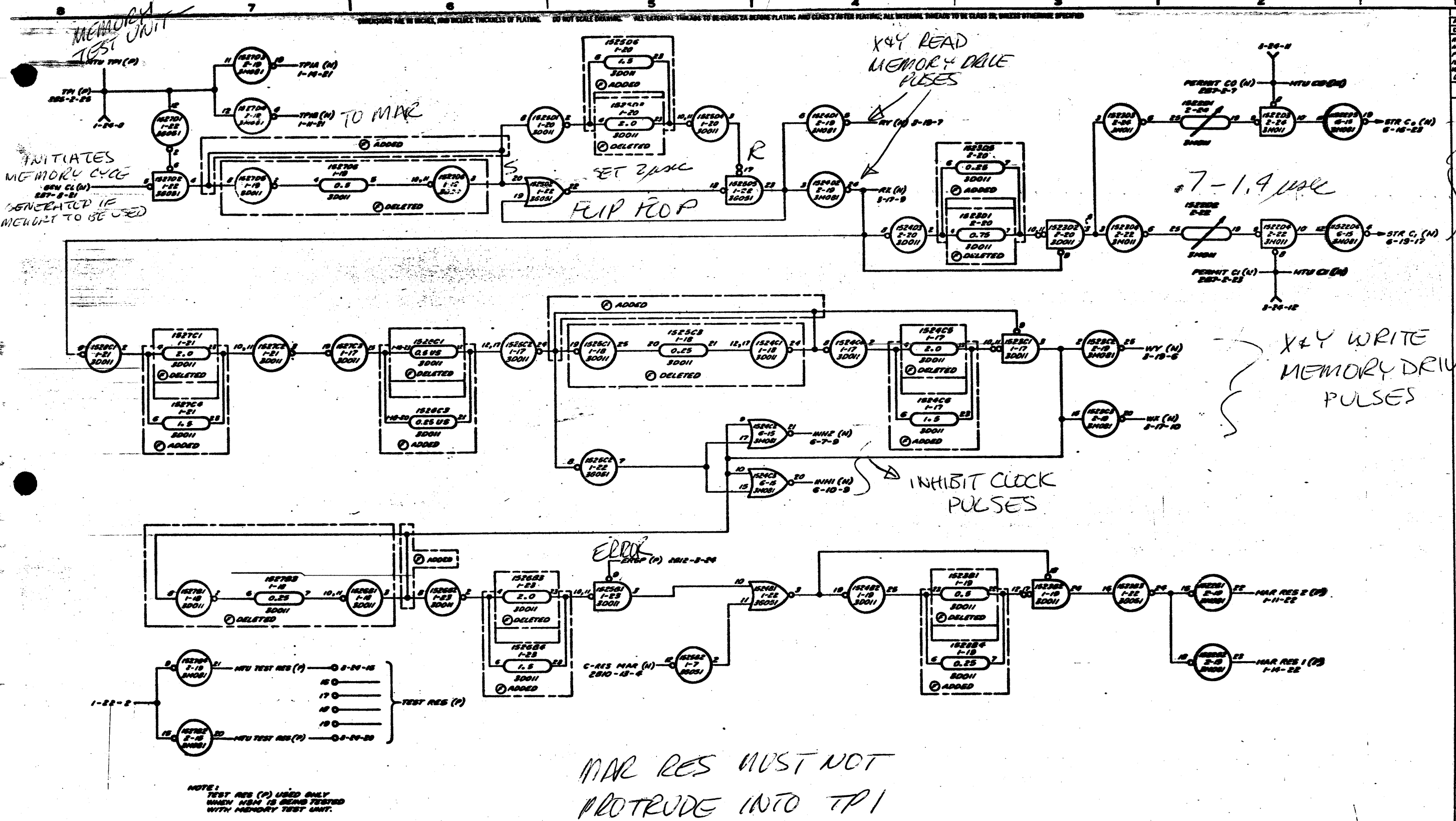
NOTE: DWG NOS REFER TO LOGIC DIAGRAMS,
EXCEPT 8511925 REFERS TO MD301
ASSEMBLY.

8617179

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.02	±.005
ABOVE 6 TO 24	±.01	±.015
ABOVE 24	±.01	±.015
ANGULAR DIMENSIONS ±.5°		
SEE PURCH. SPEC FOR STOCK TOLERANCE		

BLOCK DIAGRAM
MODEL 304 & 354
FIRST MADE FOR MI-39251 USED ON 8511953-502
DRAWN BY: *[Signature]* 10/10/60 CHECKED BY: *[Signature]*
DESIGNED BY: *[Signature]* 8/60 COMMODITY CODE
RADIO CORPORATION OF AMERICA
CODE IDENT NO. 49671
D 8617179

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
DATE	BY
11 Nov 1954	

Ⓜ MODIFICATION FOR MI-64773 (SF 237)

MODEL NOS 303 & 304

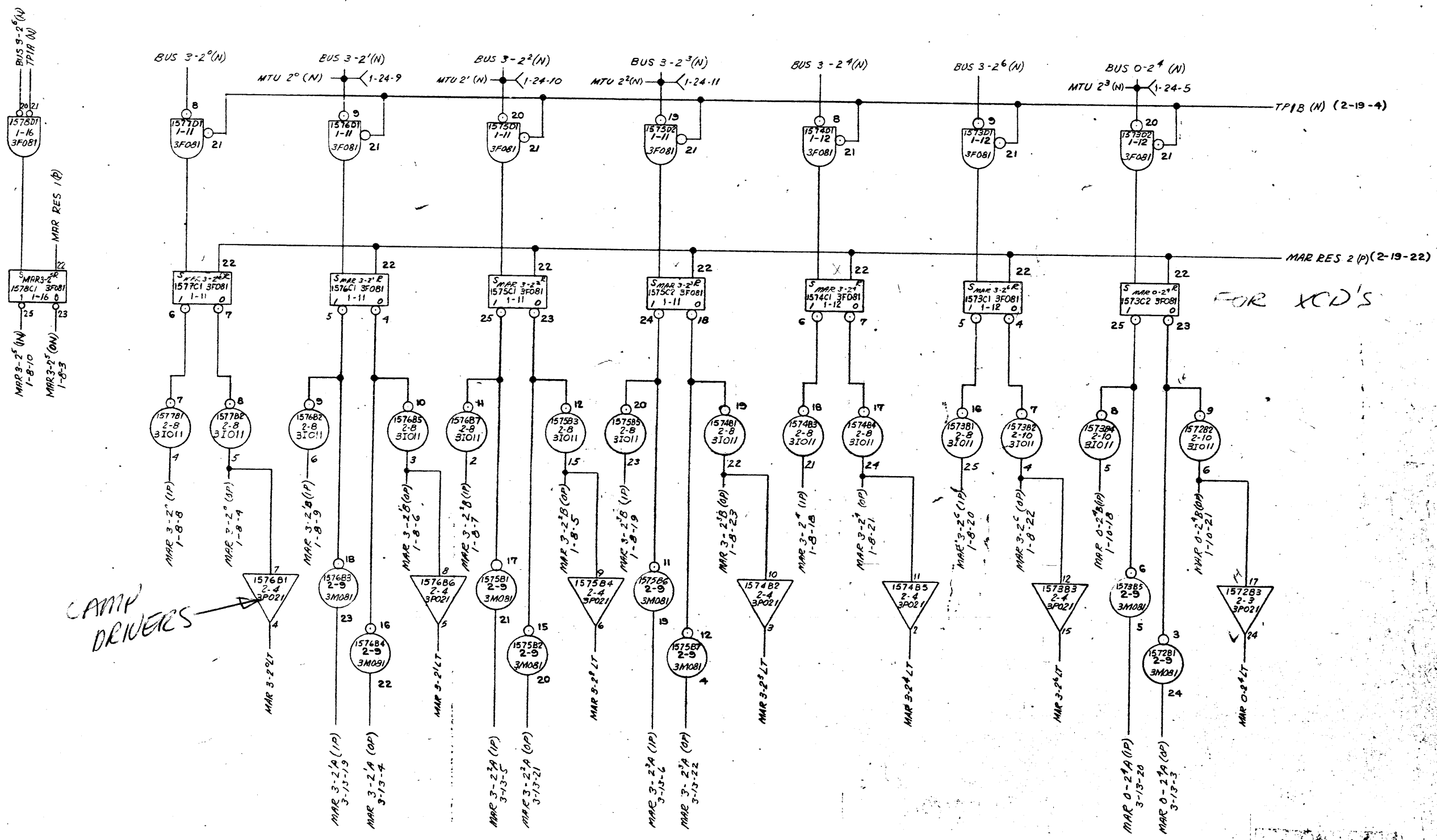
ENGINEERING LOGIC DIAGRAM		J.B.
301 HSM TIMING GENERATOR		P.F.
FIRST MADE FOR MI-64773		U.F.
DRAWN BY E. ANES 12-21-50		P.R.
CHECKED BY E. ANES 12-21-50		P.R.
DESIGNED BY E. ANES 12-21-50		
COMMUNITY CODE		
DAVID CORPORATION OF AMERICA		
CAMDEN, N. J.		

8617152

D 8617152

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. MFG.	0
REVISED/ APPROVED	
All Montgomery Ward	
2/22/53, 1/9/60	



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODELS 303 & 304

VARIATIONS OF FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.02	±.005
ABOVE 6 TO 24	±.03	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS	±.1°	
SEE PURCH SPEC FOR STOCK TOLERANCE		

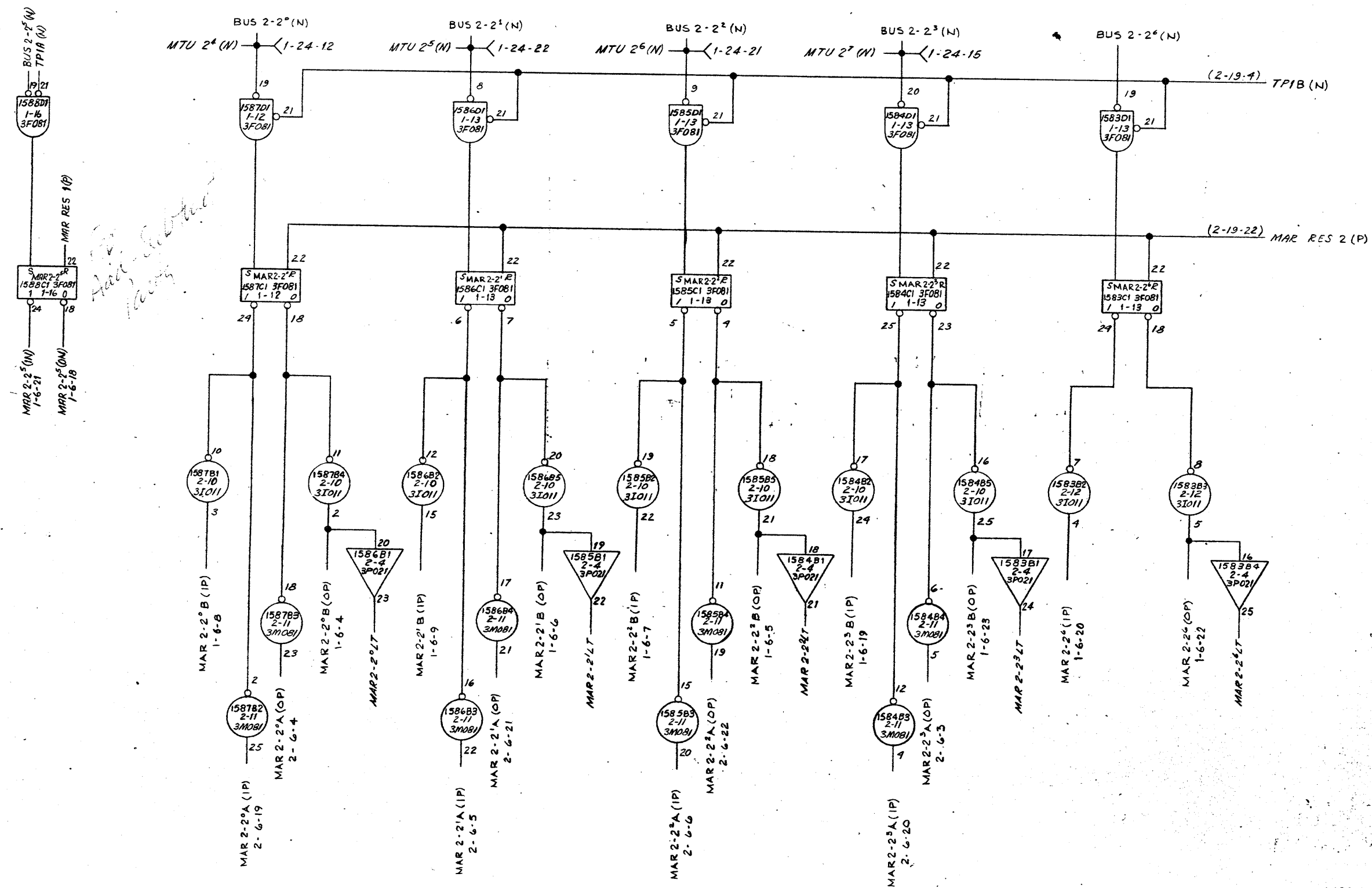
ENGRG LOGIC DIAGRAM
301 MAR 3 & MAR 0-2⁴
 FIRST MADE FOR ME 39250 USED ON 8511953-5014502
 DRAWN BY E. P. P. Aug 6, 1960 CHECKED BY J. C. S. 1/26/60
 DESIGNED BY C. P. S. Aug 6, 1960
 RADIO CORPORATION OF AMERICA
 CAMDEN, N. J.
 CODE IDENT NO. 49671

8617157

D 8617157

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. MFG.	REVISED APPROVED
AP. MFG.	301 MAR 2
AP. MFG.	Dec 13, 1960



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL NOS. 303#304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.01	±.005
ABOVE 6 TO 24	±.02	±.010
ABOVE 24	±.03	±.015
ANGULAR DIMENSIONS ±.1°		
SEE PURCH SPEC FOR STOCK TOLERANCES		

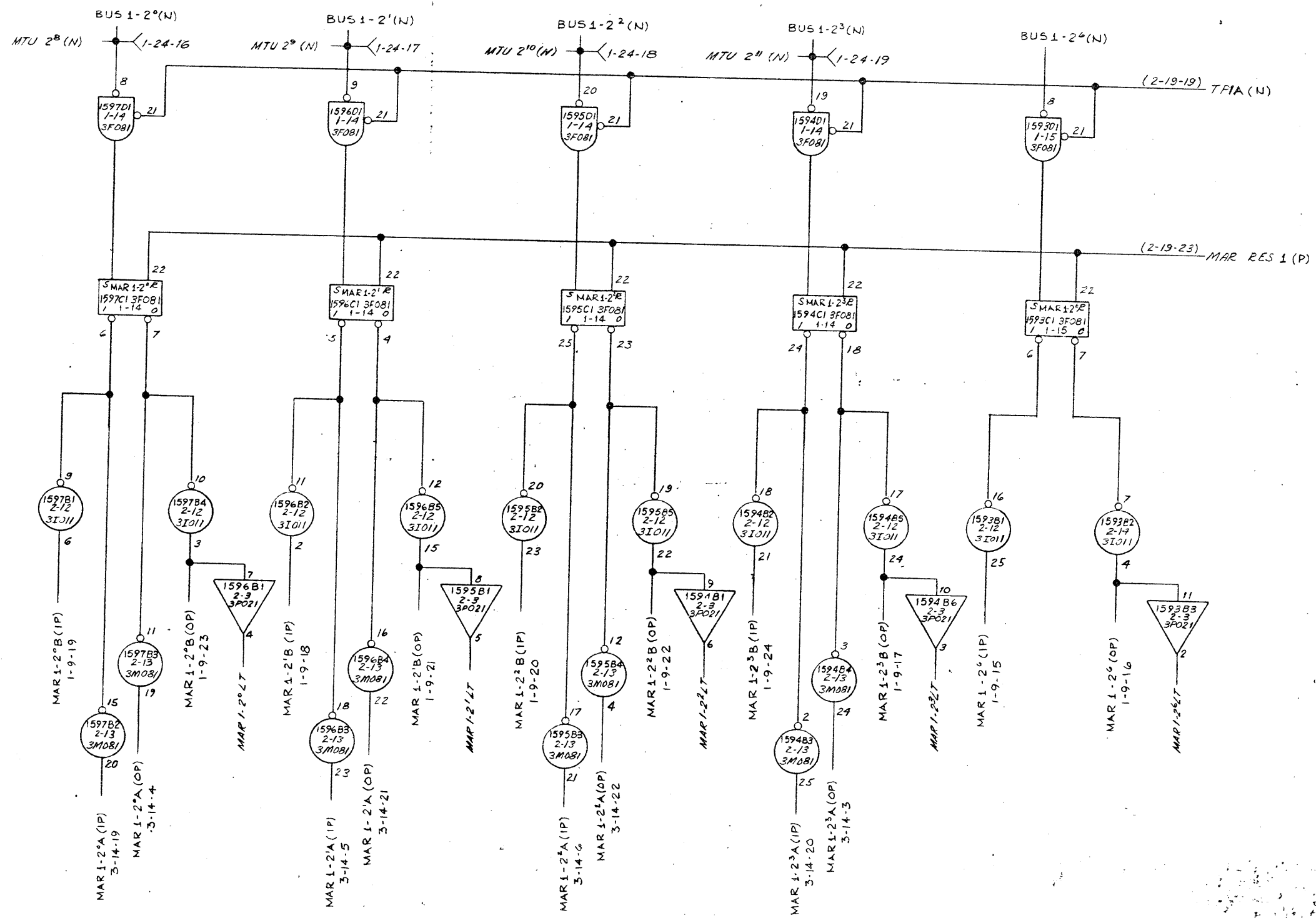
ENGRG LOGIC DIAGRAM		18
301 MAR 2		142
FIRST MADE FOR MI 39250		PF
DESIGNED BY <i>E. Amos Aug 3, 1960</i>		V704
CHECKED BY <i>BC 25 1/660</i>		17
DRAWN BY <i>E. Amos Aug 3, 1960</i>		15
COMMODITY CODE		
RADIO CORPORATION OF AMERICA		
CAMDEN, N.J.		
CODE IDENT NO. 49671		

8617158

D 8617158

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REVISIONS	
AP. BY	W. J. Thompson
AP. MFG.	
REVISED & APPROVED	W. J. Thompson 3/14/60
DATE	3/13/60
ZONE	4/B INPUT AT 1594 B1 WAS 4 EGN JB
DATE	12/21/59



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

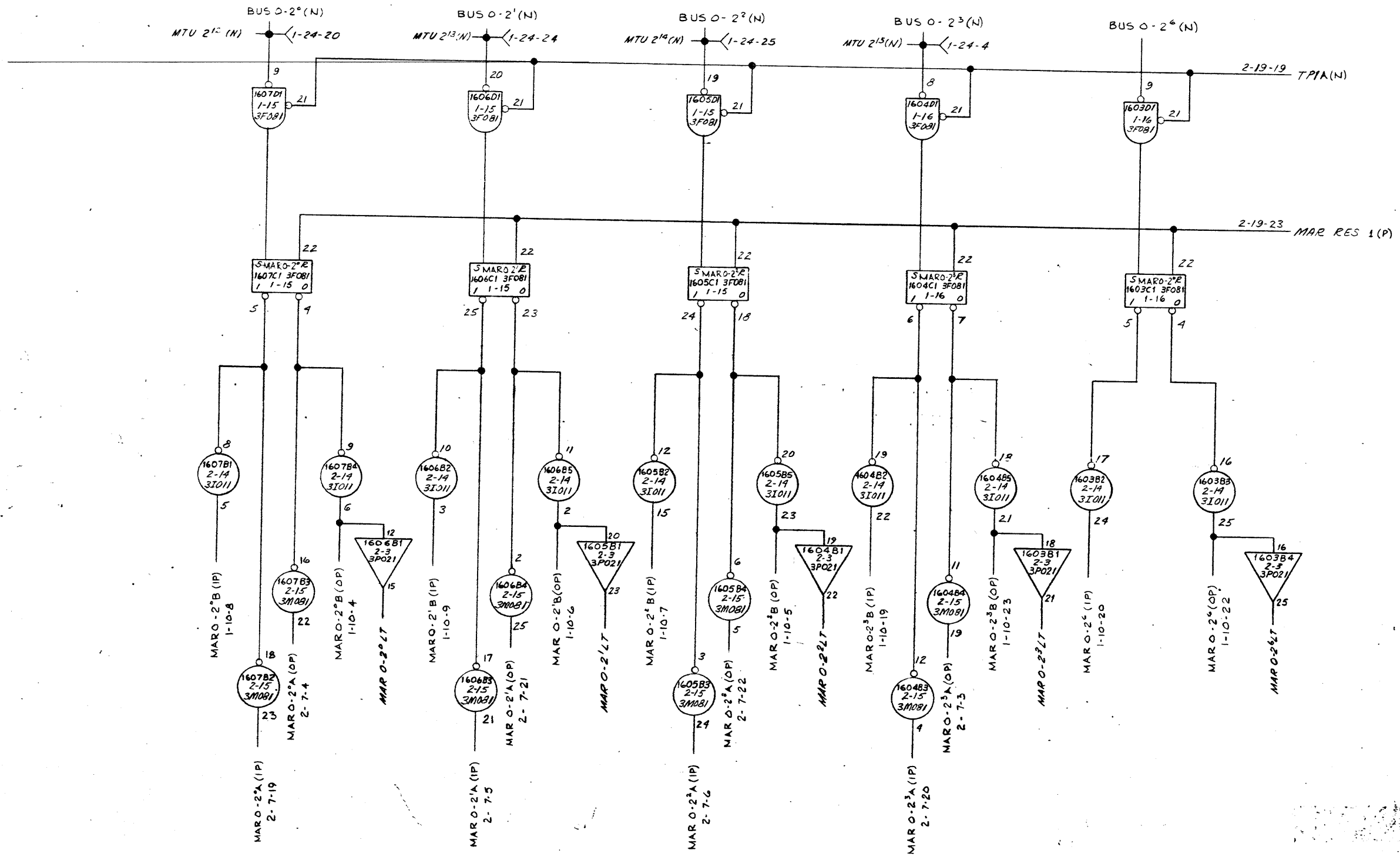
MODEL NOS. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .01	± .010
ABOVE 24	± .02	± .015
ANGULAR DIMENSIONS	± .1°	
SEE PURCH SPEC FOR STOCK TOLERANCE		
ENGRG LOGIC DIAGRAM		
301 MAR 1		
FIRST MADE FOR MI 39250	USED ON 8511953-501502	
DRAWN BY <i>E. Jones Aug 3, 1960</i>	CHECKED BY <i>R. J. 2.5, 1960</i>	
DESIGNED BY <i>E. Jones Aug 3, 1960</i>	COMMODITY CODE	
RADIO CORPORATION OF AMERICA CAMDEN, N. J.		SIZE D 8617159
CODE IDENT NO. 49671		

8617159

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. BY	DATE
1	11/15/60
REVISED APPROVED	
ALL DIMENSIONS TO BE CLASS 2A	
DEC 13, 1960	



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL NOS. 303#304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	5 PLACE DECIMALS
UP TO 4	±.01	±.005
ABOVE 4	±.02	±.010
ABOVE 24	±.04	±.015
ANGULAR DIMENSIONS ±.5°		
SEE PURCH SPEC FOR STOCK TOLERANCE		

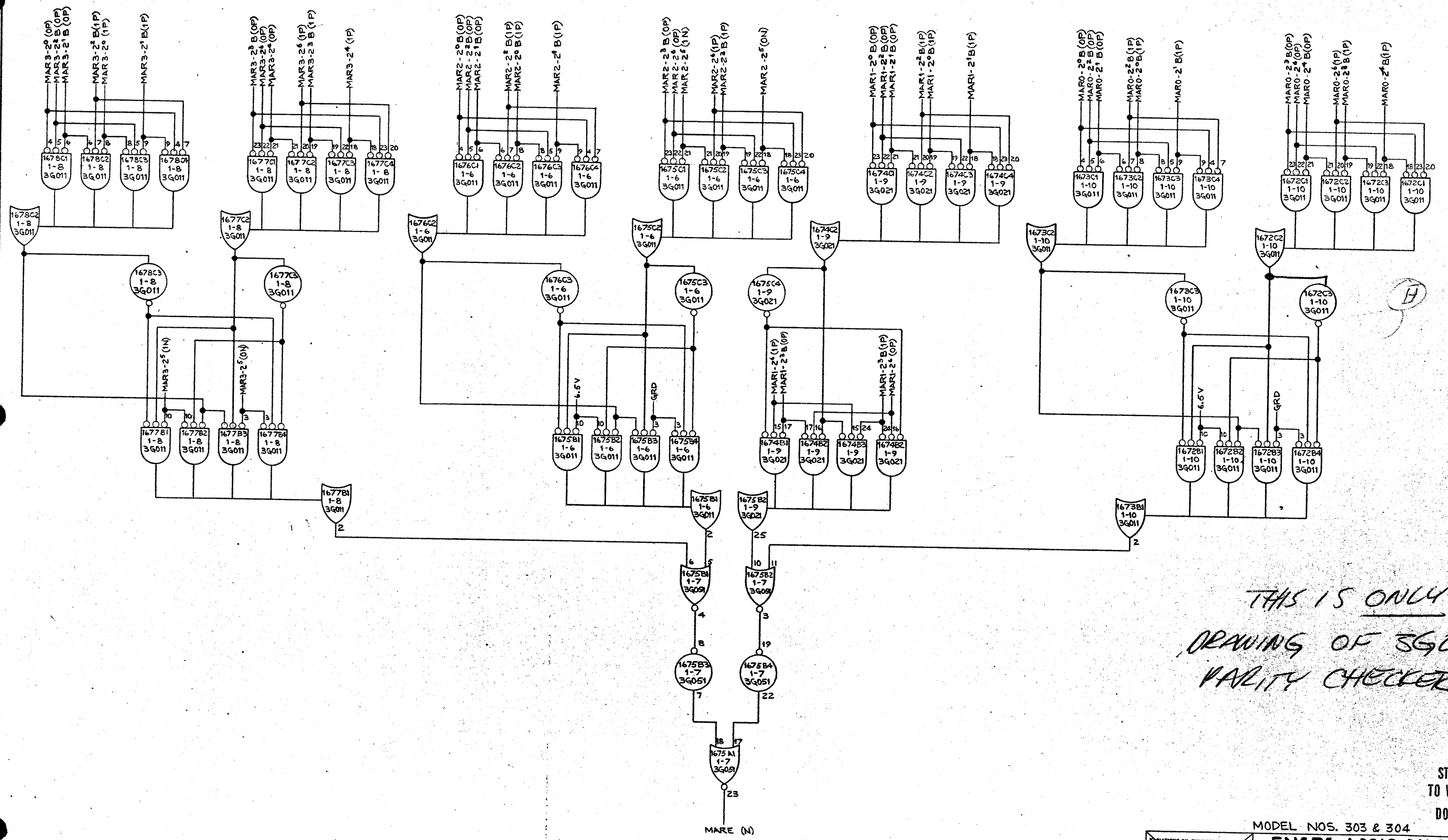
ENGG LOGIC DIAGRAM		JR
301 MAR O		146
FIRST MADE FOR MI 39250		PE
DRAWN BY <i>E. Jones</i> 11/15/60		VZ
DESIGNED BY <i>E. Jones</i> 11/15/60		72
RADIO CORPORATION OF AMERICA		116
CAMDEN, N.J.		
CODE IDENT NO. 49671		

8617160

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BYD. MONTGOMERY	0
DATE 30 NOV 1960	
REVISED AND REDRAWN	
ECN-18	
<i>Ed. Montgomery</i>	
May 29, 1961	



*THIS IS ONLY
DRAWING OF 3G011
PARITY CHECKER*

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM
301 MAR PARITY CHECKER

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSION	3 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .01	± .010
ABOVE 24	± .01	± .015
ANGULAR DIMENSIONS ± 30'		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR MI-39250
DRAWN BY E. AMES, AUG. 8, 1960
REVISION 2
DESIGNED BY *Ed. Montgomery*

CHECKED BY
COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

8617167

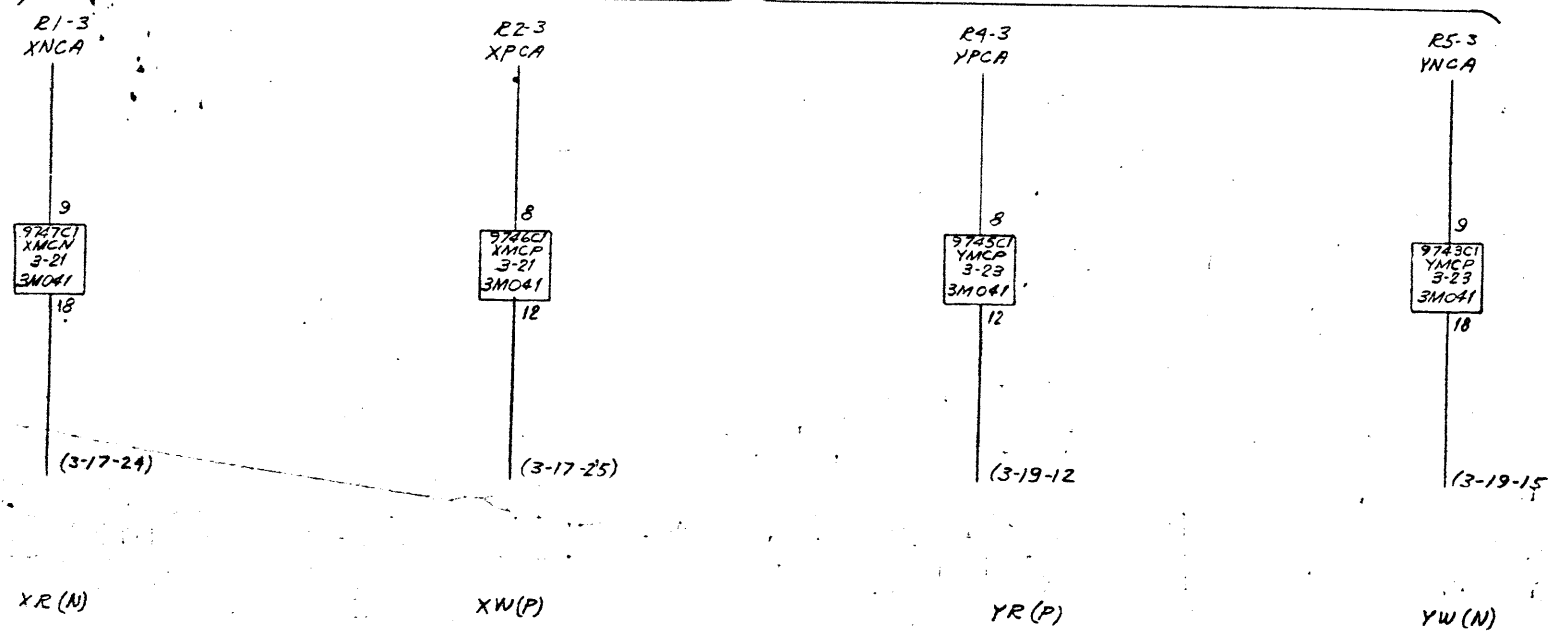
D 8617167

J8	
146	
PF	
4704	
215	
TC	
JF	

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY <i>W. Montgomery</i>	0
DATE	
REVISED APPROVED	
<i>W. Montgomery</i>	
DEC 13 1960	1
REVISED. ECN-18	
<i>W. Montgomery</i>	
APR 17 1961	2
ZONE 3/C ELEMENT 3143C1	
PIN 3-21-18 WAS 3-21-12	
ZONE 3/C ELEMENT 3143C1	
PIN 3-21-18 WAS 3-21-12	
ECN 1804	
<i>W. Montgomery</i>	
APR 18 1961	3

FROM MEMORY CONTROL PANEL RCA DWG 8460689



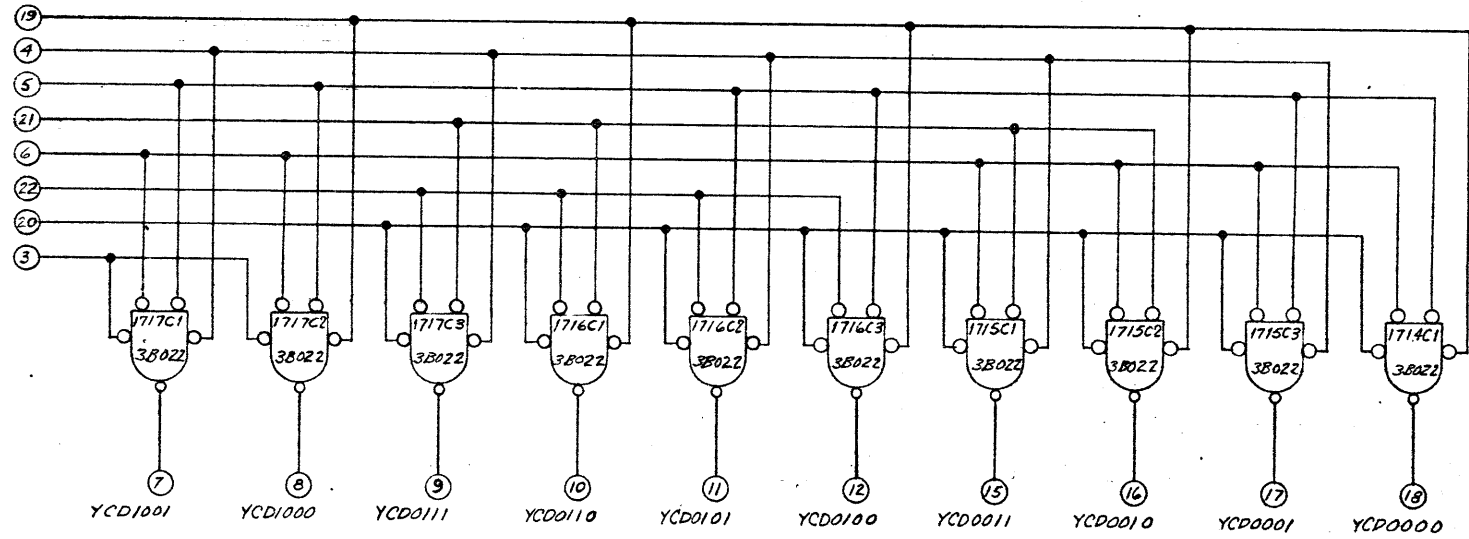
RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN
MODEL NO. 3031304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			ENGRG LOGIC DIAGRAM CURRENT SOURCE FIRST MADE FOR <i>W. 3922A</i> USED ON <i>851,243-501/502</i> DRAWN BY <i>E. Ames</i> <i>Sept 7, 1960</i> CHECKED BY <i>Ames</i> <i>3, 1960</i> DESIGNED BY <i>E. Ames</i> <i>Sept 7, 1960</i> RADIO CORPORATION OF AMERICA CAMDEN, N.J. CODE IDENT NO. 49671	J8 TC PE V704 V705 V706 V707 V708 V709 V710
BASIC DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS		
UP TO 6	± .02	± .005		
ABOVE 6 TO 24	± .01	± .010		
ABOVE 24	± .008	± .015		
ANGULAR DIMENSIONS ± 30'			COMMODITY CODE	
SEE PURCH SPEC FOR STOCK TOLERANCE			D 8615974 SIZE	

8615974

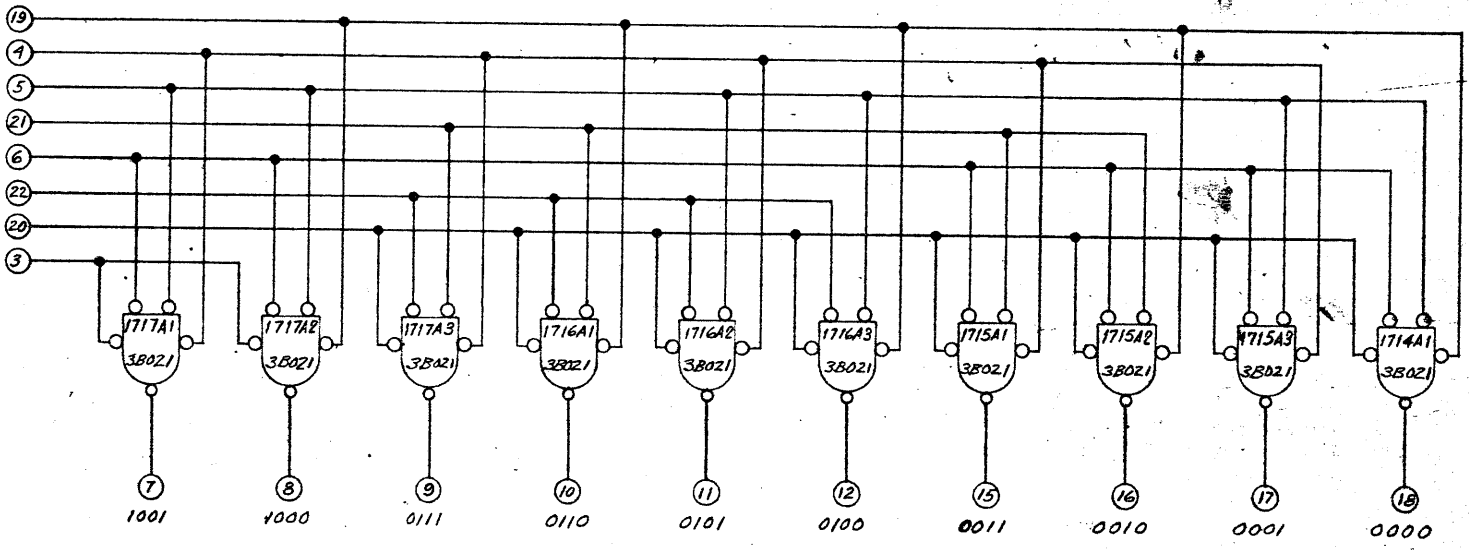
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
AP. MFG.	
REVISED & APPROVED	
Date 1/17/1960	



PIN	YCD
19	MAR 1 - 2 ⁰ A (IP)
4	MAR 1 - 2 ¹ A (OP)
5	MAR 1 - 2 ² A (IP)
21	MAR 1 - 2 ³ A (OP)
6	MAR 1 - 2 ⁴ A (IP)
22	MAR 1 - 2 ⁵ A (OP)
20	MAR 1 - 2 ⁶ A (IP)
3	MAR 1 - 2 ⁷ A (OP)

DIODE
DECODERS



PIN	XCS	YCS
19	MAR 2 - 2 ⁰ A (IP)	MAR 0 - 2 ⁰ A (IP)
4	MAR 2 - 2 ¹ A (OP)	MAR 0 - 2 ¹ A (OP)
5	MAR 2 - 2 ² A (IP)	MAR 0 - 2 ² A (IP)
21	MAR 2 - 2 ³ A (OP)	MAR 0 - 2 ³ A (OP)
6	MAR 2 - 2 ⁴ A (IP)	MAR 0 - 2 ⁴ A (IP)
22	MAR 2 - 2 ⁵ A (OP)	MAR 0 - 2 ⁵ A (OP)
20	MAR 2 - 2 ⁶ A (IP)	MAR 0 - 2 ⁶ A (IP)
3	MAR 2 - 2 ⁷ A (OP)	MAR 0 - 2 ⁷ A (OP)

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MODEL NR 303 & 304

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

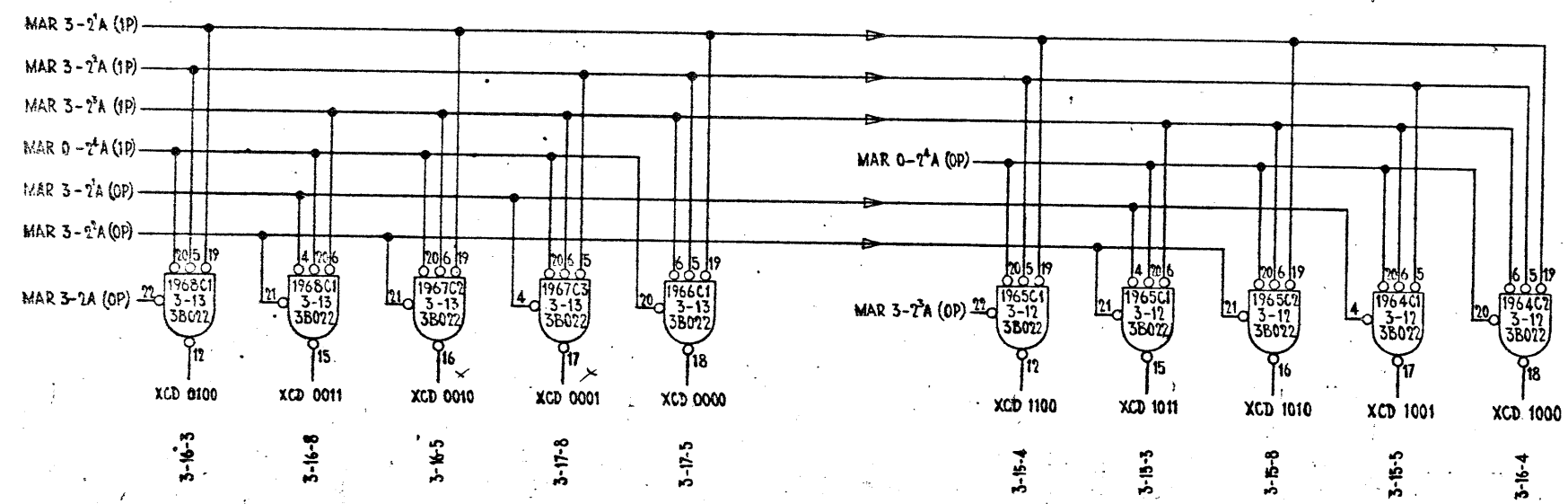
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	5 PLACE DECIMALS	X & Y DECODERS	
UP TO 4	±.01	±.005	FIRST MADE FOR MI 39250	USED ON 8511953-501 & 502
ABOVE 4	±.015	±.010	DRAWN BY E. Ames Aug 9, 1960	CHECKED BY Oct 27, 1960
ABOVE 24	±.04	±.015	DESIGNED BY E. Ames Aug 9, 1960	COMMODITY CODE
ANGULAR DIMENSIONS ±.75°			RADIO CORPORATION OF AMERICA CAMDEN, N.J.	
SEE PURCH SPEC FOR STOCK TOLERANCE			CODE IDENT NO. 49671	

8617171

D 8617171

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY <i>W. J. Williams</i>	0
DATE	
REVISED APPROVED	
<i>All dimensions to be checked</i>	
<i>Final 12/18/51</i>	
ZONE SIC ELEMENT 194501	
OUTPUT PIN 3-12-10	
WAF 3-17-8	
EON 4384	
JBS	
<i>W. J. Williams</i>	
<i>13 Aug 1952</i>	
	12



ABOVE 10K

BELOW 10K

RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

MODEL NO. 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	XCD DECODER	
UP TO 6	±.01	±.005	FIRST MADE FOR MJ-39751	USED ON 8511753-502
ABOVE 6 TO 24	±.02	±.010	DRAWN BY <i>W. J. Williams</i>	CHECKED BY <i>W. J. Williams</i>
ABOVE 24	±.04	±.015	DESIGNED BY <i>W. J. Williams</i>	COMMODITY CODE
MODULAR DIMENSIONS ±.01			RADIO CORPORATION OF AMERICA CAMDEN, N. J.	
SEE PURCH SPEC FOR STOCK TOLERANCE			SIZE	D 8617196

8617196

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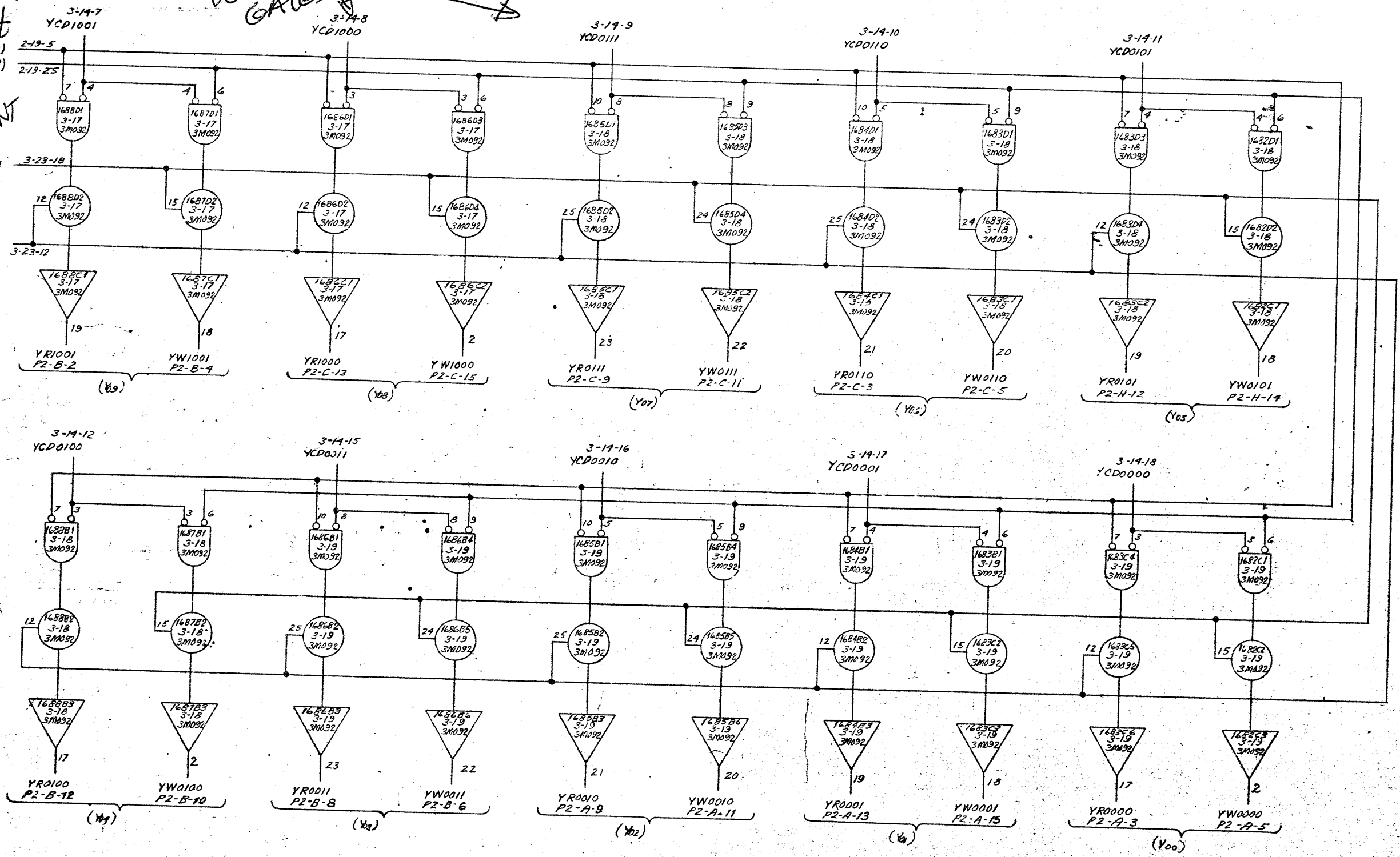
DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

READ-WRITE
CPIS
&
RY(N)
WY(N)

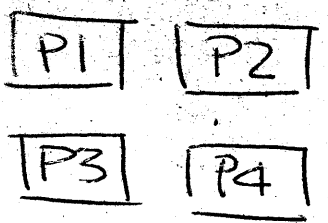
FROM
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GATES

OUTPUT
CONSTANT CURRENT
SOURCES

REVISIONS	
NO. REV.	DATE
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3	REVISED FOR
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6	REVISED FOR
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11	REVISED FOR
12	REVISED FOR
13	REVISED FOR



MEMORY
PLUGS



RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMBET

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MODEL NO. 303

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.005	±.002
ABOVE 6 TO 24	±.010	±.005
ABOVE 24	±.015	±.008

ENGRG LOGIC DIAGRAM
"Y" CURRENT DRIVERS

FIRST MADE FOR M139250 USED ON 8511953-501
DRAWN BY E. Jones Aug 3, 1960 CHECKED BY - Oct 1, 1960
DESIGNED BY E. Jones Aug 3, 1960
RADIO CORPORATION OF AMERICA
CAMDEN, N. J.
CODE IDENT NO. 49671

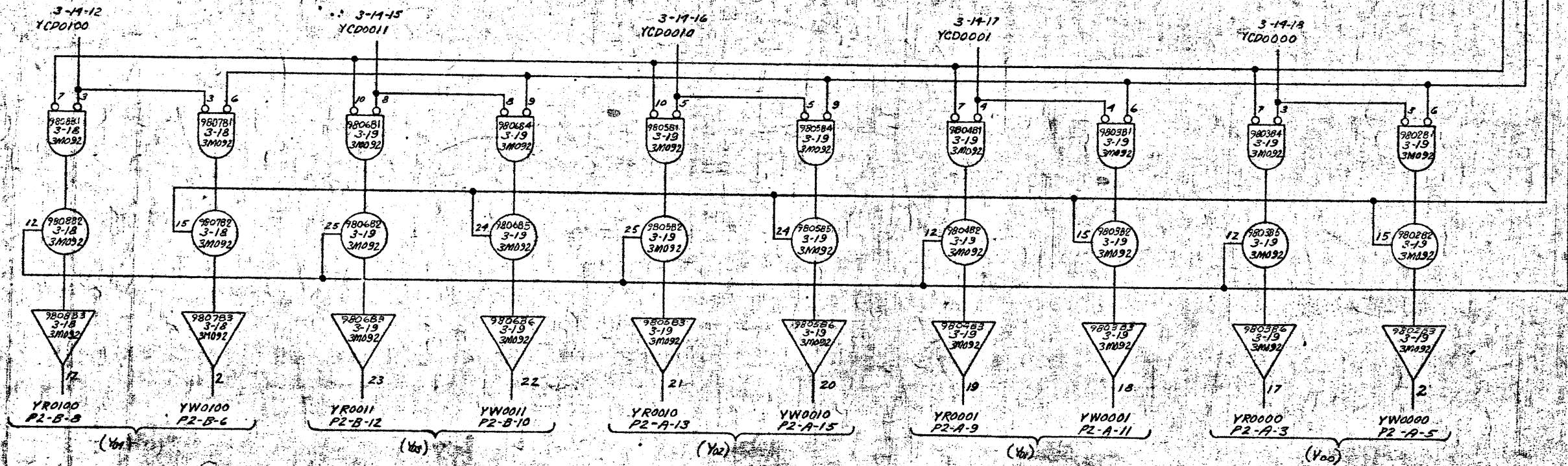
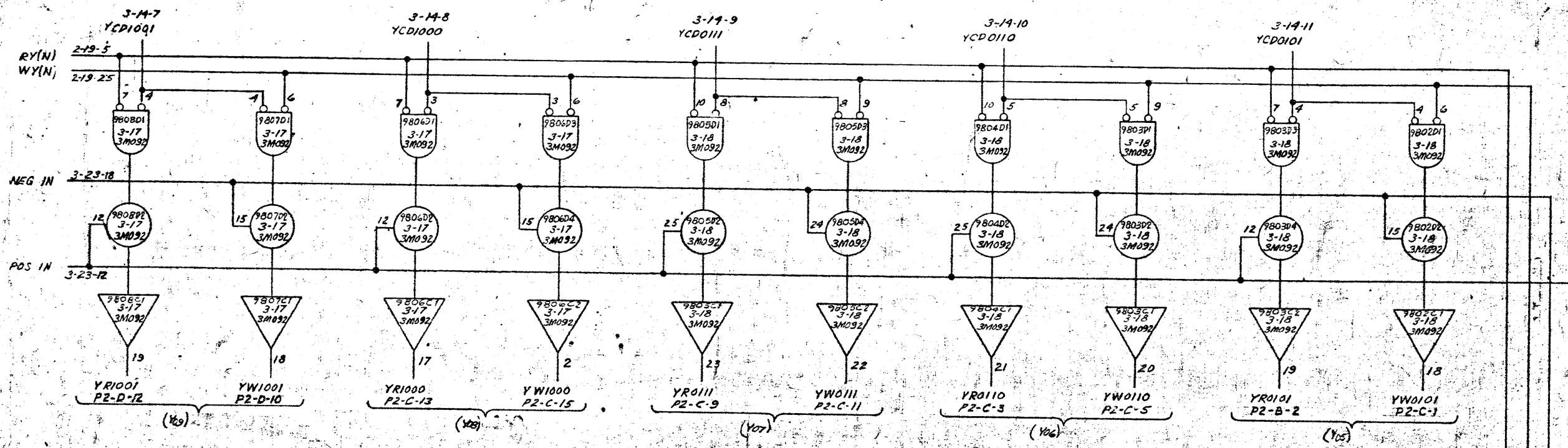
COMMODITY CODE
D 8617168

8617168

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. REV.	DATE
0	
REVISED APPROVED	
DESIGNED BY <i>[Signature]</i>	
DRAWN BY <i>[Signature]</i>	
CHECKED BY <i>[Signature]</i>	
DATE 12/15/51	
ZONE 3-23-18 WAS	
3-23-43 23-12 WAS	
3-23-51 ECM JS	
APPROVED BY <i>[Signature]</i>	
DATE 12/15/51	
ALL 3M092 PLUG	
INS WERE 3M091	
ECN V704	
W/changed 16 Nov 62	
Kawada 16 Nov 62	
13	



MODEL NO 304

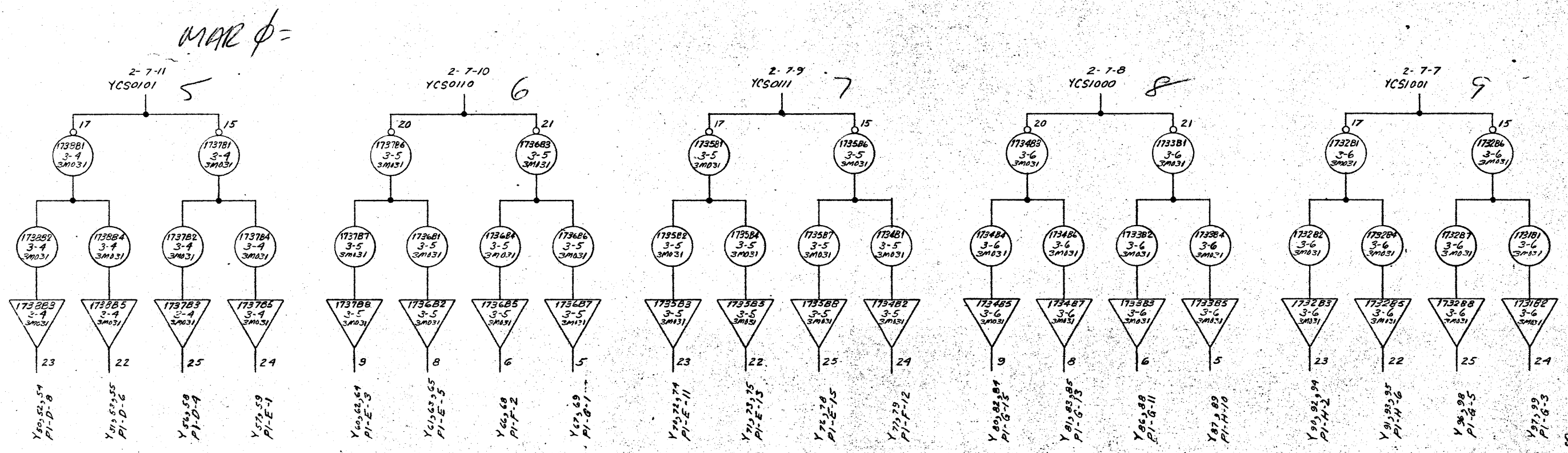
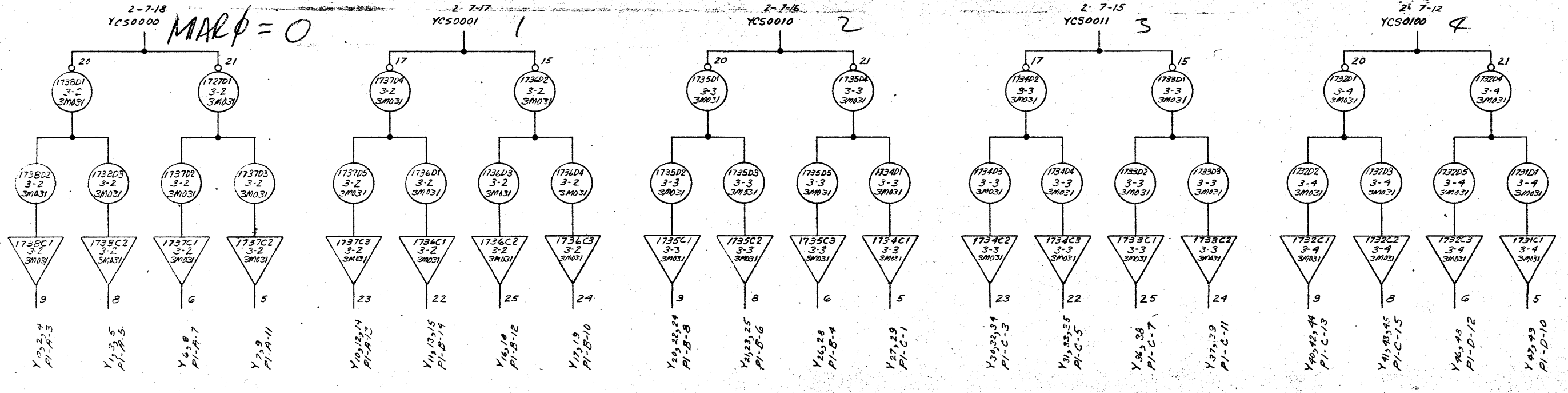
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM		JB
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	"Y" CURRENT DRIVERS	FC
UP TO 1/8	0.001	2.000	FIRST MADE FOR M139251	W704
1/8 TO 1/4	0.002	0.010	USED ON 851959-502	VE
1/4 TO 3/4	0.005	0.020	DRAWN BY <i>[Signature]</i>	IF
3/4 TO 1	0.010	0.030	CHECKED BY <i>[Signature]</i>	FR
1 TO 2	0.020	0.050	DESIGNED BY <i>[Signature]</i>	FR
2 TO 3	0.050	0.100	COMMODITY CODE	FR
3 TO 4	0.100	0.150	RADIO CORPORATION OF AMERICA	FR
4 TO 5	0.150	0.200	CAMDEN, N. J.	FR
5 TO 6	0.200	0.250	CODE IDENT NO. 47871	FR
6 TO 7	0.250	0.300		FR
7 TO 8	0.300	0.350		FR
8 TO 9	0.350	0.400		FR
9 TO 10	0.400	0.450		FR
10 TO 11	0.450	0.500		FR
11 TO 12	0.500	0.550		FR
12 TO 13	0.550	0.600		FR
13 TO 14	0.600	0.650		FR
14 TO 15	0.650	0.700		FR
15 TO 16	0.700	0.750		FR
16 TO 17	0.750	0.800		FR
17 TO 18	0.800	0.850		FR
18 TO 19	0.850	0.900		FR
19 TO 20	0.900	0.950		FR
20 TO 21	0.950	1.000		FR
21 TO 22	1.000	1.050		FR
22 TO 23	1.050	1.100		FR
23 TO 24	1.100	1.150		FR
24 TO 25	1.150	1.200		FR
25 TO 26	1.200	1.250		FR
26 TO 27	1.250	1.300		FR
27 TO 28	1.300	1.350		FR
28 TO 29	1.350	1.400		FR
29 TO 30	1.400	1.450		FR
30 TO 31	1.450	1.500		FR
31 TO 32	1.500	1.550		FR
32 TO 33	1.550	1.600		FR
33 TO 34	1.600	1.650		FR
34 TO 35	1.650	1.700		FR
35 TO 36	1.700	1.750		FR
36 TO 37	1.750	1.800		FR
37 TO 38	1.800	1.850		FR
38 TO 39	1.850	1.900		FR
39 TO 40	1.900	1.950		FR
40 TO 41	1.950	2.000		FR
41 TO 42	2.000	2.050		FR
42 TO 43	2.050	2.100		FR
43 TO 44	2.100	2.150		FR
44 TO 45	2.150	2.200		FR
45 TO 46	2.200	2.250		FR
46 TO 47	2.250	2.300		FR
47 TO 48	2.300	2.350		FR
48 TO 49	2.350	2.400		FR
49 TO 50	2.400	2.450		FR
50 TO 51	2.450	2.500		FR
51 TO 52	2.500	2.550		FR
52 TO 53	2.550	2.600		FR
53 TO 54	2.600	2.650		FR
54 TO 55	2.650	2.700		FR
55 TO 56	2.700	2.750		FR
56 TO 57	2.750	2.800		FR
57 TO 58	2.800	2.850		FR
58 TO 59	2.850	2.900		FR
59 TO 60	2.900	2.950		FR
60 TO 61	2.950	3.000		FR
61 TO 62	3.000	3.050		FR
62 TO 63	3.050	3.100		FR
63 TO 64	3.100	3.150		FR
64 TO 65	3.150	3.200		FR
65 TO 66	3.200	3.250		FR
66 TO 67	3.250	3.300		FR
67 TO 68	3.300	3.350		FR
68 TO 69	3.350	3.400		FR
69 TO 70	3.400	3.450		FR
70 TO 71	3.450	3.500		FR
71 TO 72	3.500	3.550		FR
72 TO 73	3.550	3.600		FR
73 TO 74	3.600	3.650		FR
74 TO 75	3.650	3.700		FR
75 TO 76	3.700	3.750		FR
76 TO 77	3.750	3.800		FR
77 TO 78	3.800	3.850		FR
78 TO 79	3.850	3.900		FR
79 TO 80	3.900	3.950		FR
80 TO 81	3.950	4.000		FR
81 TO 82	4.000	4.050		FR
82 TO 83	4.050	4.100		FR
83 TO 84	4.100	4.150		FR
84 TO 85	4.150	4.200		FR
85 TO 86	4.200	4.250		FR
86 TO 87	4.250	4.300		FR
87 TO 88	4.300	4.350		FR
88 TO 89	4.350	4.400		FR
89 TO 90	4.400	4.450		FR
90 TO 91	4.450	4.500		FR
91 TO 92	4.500	4.550		FR
92 TO 93	4.550	4.600		FR
93 TO 94	4.600	4.650		FR
94 TO 95	4.650	4.700		FR
95 TO 96	4.700	4.750		FR
96 TO 97	4.750	4.800		FR
97 TO 98	4.800	4.850		FR
98 TO 99	4.850	4.900		FR
99 TO 100	4.900	4.950		FR

8615980

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2A, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. 0	REVISED APPROVED
DATE: Dec. 12, 1960	



STATUS IN TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL NOS. 303#304

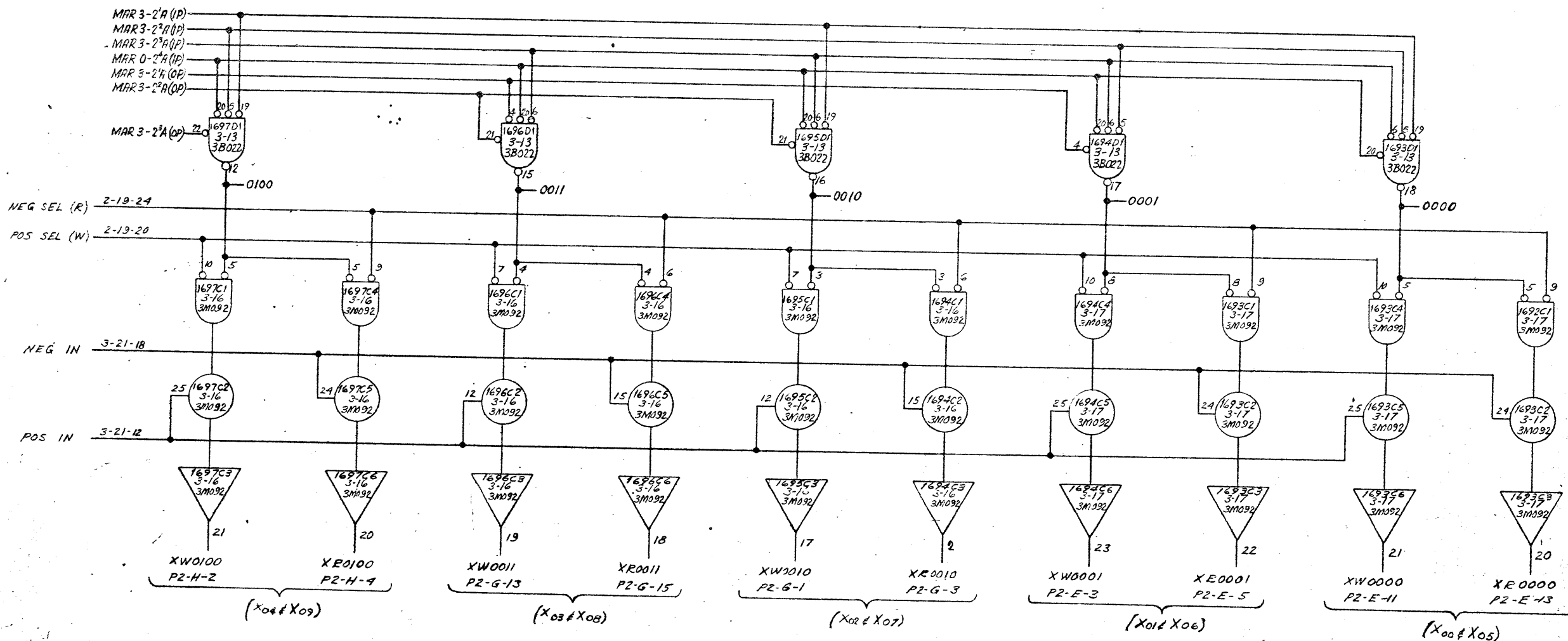
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	301 "Y" CURRENT SWITCHES	
UP TO 4	±.002	FIRST MADE FOR MI 39250	USED ON 9511953-501/502
ABOVE 4 TO 24	±.010	DESIGNED BY <i>E. R. ...</i>	CHECKED BY <i>Oct 27, 1960</i>
ABOVE 24	±.015	RADIO CORPORATION OF AMERICA	COMMODITY CODE
ANGULAR DIMENSIONS	±.01	CAMDEN, N.J.	CODE IDENT NO. 49671
SEE PURCH SPEC FOR STOCK TOLERANCE		D 8617173	

8617173

075

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
1	REVISED & APPROVED
2	REVISED & APPROVED
3	REVISED & APPROVED
4	REVISED & APPROVED
5	REVISED & APPROVED
6	REVISED & APPROVED
7	REVISED & APPROVED
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46	REVISED & APPROVED
47	REVISED & APPROVED
48	REVISED & APPROVED
49	REVISED & APPROVED
50	REVISED & APPROVED



RCA WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

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8617169

MODEL NO. 503

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSION	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .04	± .015

ENGRG LOGIC DIAGRAM
"X" CURRENT DRIVERS

FIRST MADE FOR MFC-58250
DRAWN BY E. Amos Aug 2, 1960
DESIGNED BY E. Amos Aug 2, 1960

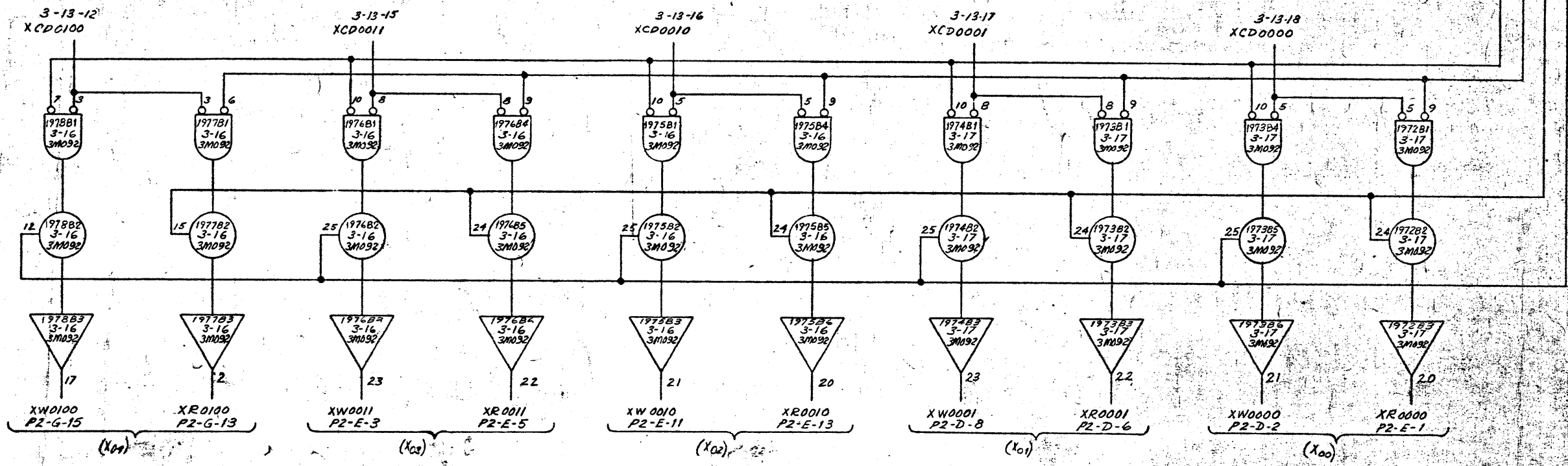
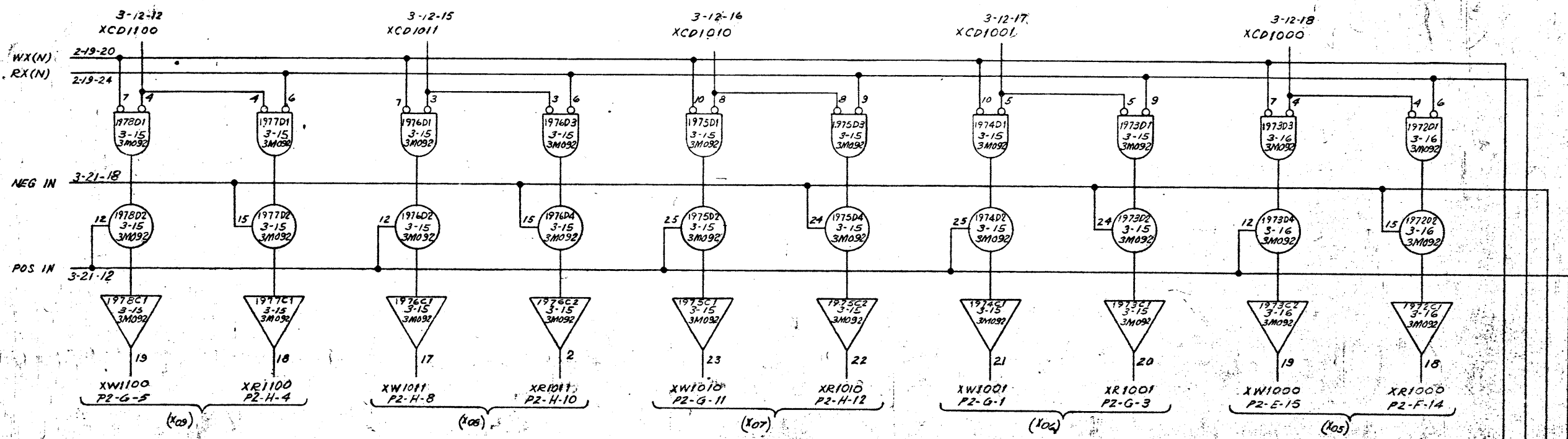
USED ON B511953-501
CHECKED BY J. Amos 3/19/60
COMMODITY CODE

RADIO CORPORATION OF AMERICA
CAMDEN, N.J.
CODE IDENT NO. 49671

8617169

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A, BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED / APPROVED	0
REVISED / APPROVED	1
REVISED / APPROVED	2
REVISED / APPROVED	3



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MODEL NO. 304

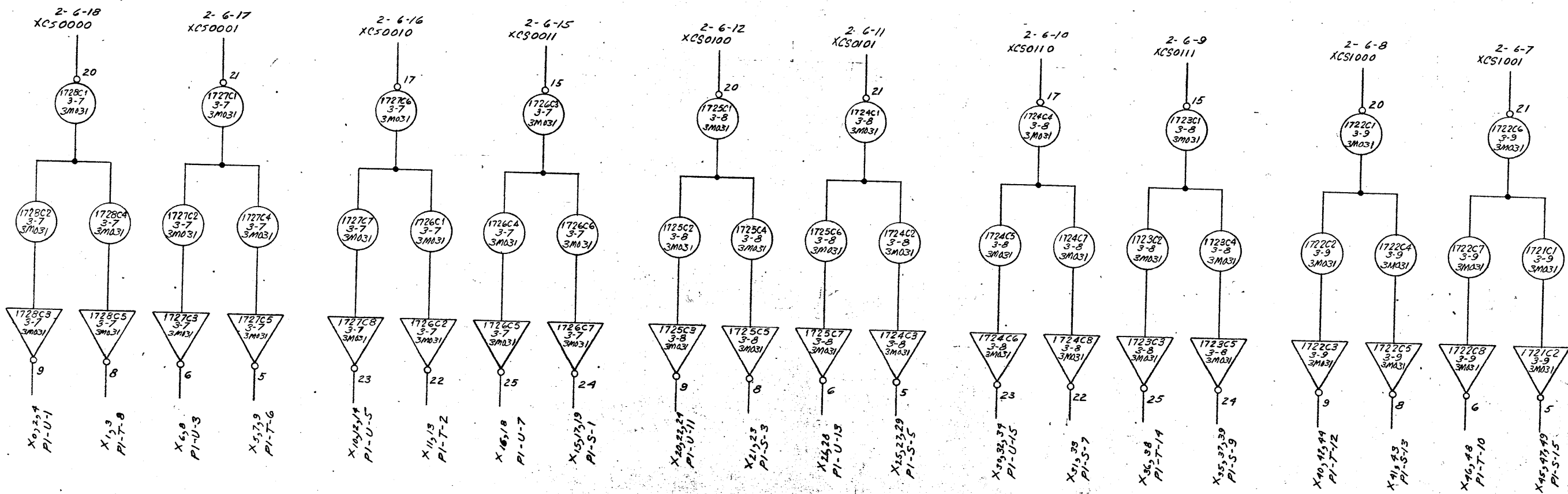
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM		J5
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS	X CURRENT DRIVERS	TR
UP TO 1/8"	±.02	±.005	FIRST MADE FORM 1 39251	PE
ABOVE 1/8" TO 1/4"	±.03	±.010	USED ON 6511953-508	W722
ABOVE 1/4" TO 3/4"	±.04	±.015	DRAWN BY <i>C.P. ...</i>	W723
ABOVE 3/4" TO 1"	±.05	±.020	CHECKED BY <i>...</i>	W724
ANGULAR DIMENSIONS	±.01		DESIGNED BY <i>...</i>	W725
SEE PURCH SPEC FOR STOCK TOLERANCES			RADIO CORPORATION OF AMERICA	W726
			CAMDEN, N. J.	W727
			CODE IDENT NO. 49671	W728

8617197

8617197

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY <i>E. H. ...</i>	0
REVISED/ APPROVED	
BY <i>E. H. ...</i>	
DATE 12, 1960	7



STATUS AT TRANSFER
 10 WEST PALM BEACH
 DO NOT CHANGE

MODEL NR 303 **10K**

ENGG LOGIC DIAGRAM
301 "X" CURRENT SWITCHES

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	3 PLACE DECIMALS
UP TO 6	±.005
ABOVE 6 TO 24	±.010
ABOVE 24	±.015
ANGULAR DIMENSIONS	±.010
SEE PURCH SPEC FOR STOCK TOLERANCE	

FIRST MADE FOR MI-39250
 USED ON 8511953-501
 DRAWN BY *E. H. ...* Aug 10, 1960
 CHECKED BY *...* Oct 27, 1960
 DESIGNED BY *E. H. ...* Aug 10, 1960
 RADIO CORPORATION OF AMERICA
 CAMDEN, N. J.
 CODE IDENT NO. 49471

COMMODITY CODE
D 8617172

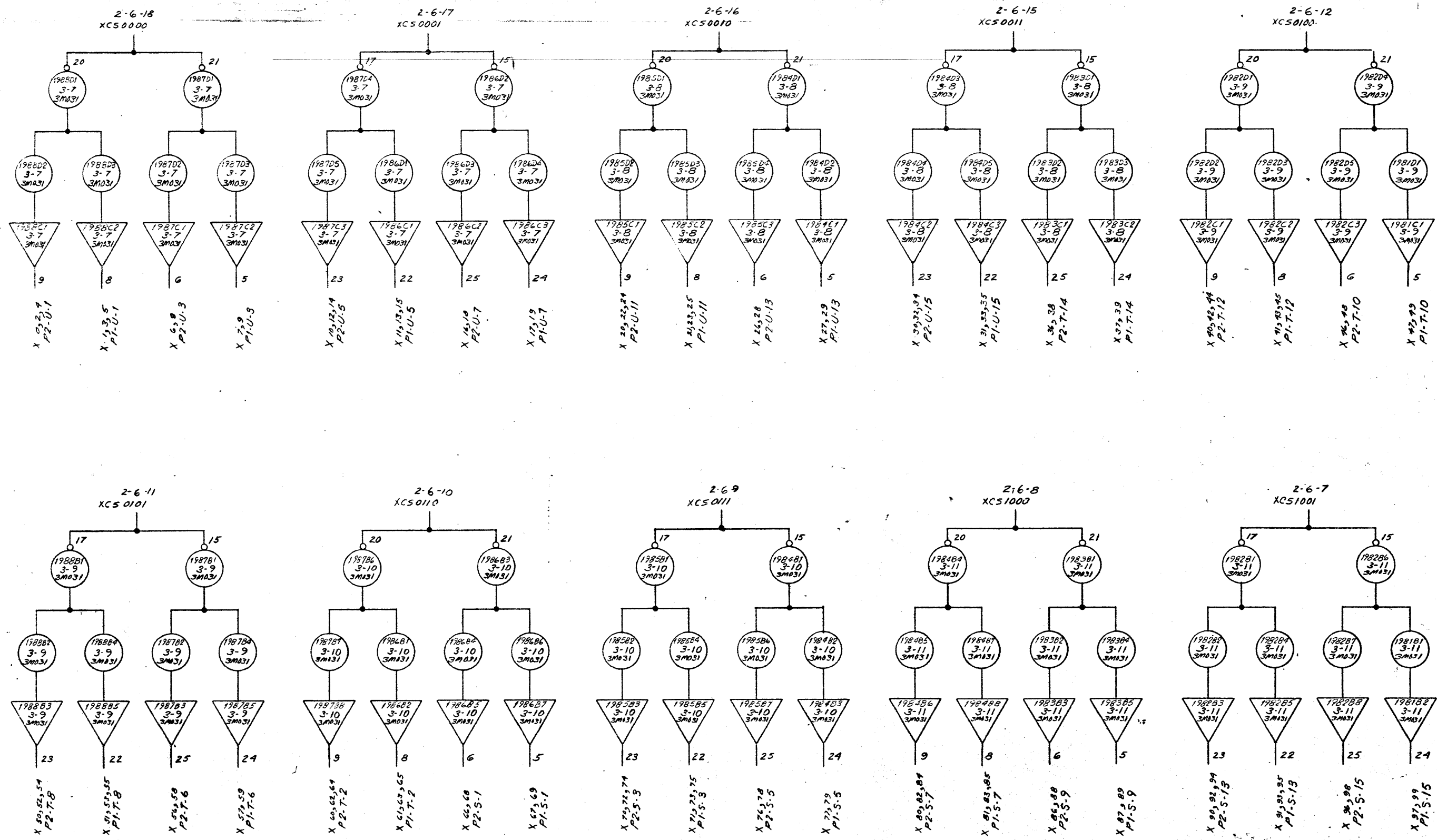
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8617172

J8
 140
 FT
 3
 18

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. 100	REVISED/ APPROVED
DATE	BY
12/13/1961	



THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

MODEL NO. 304

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

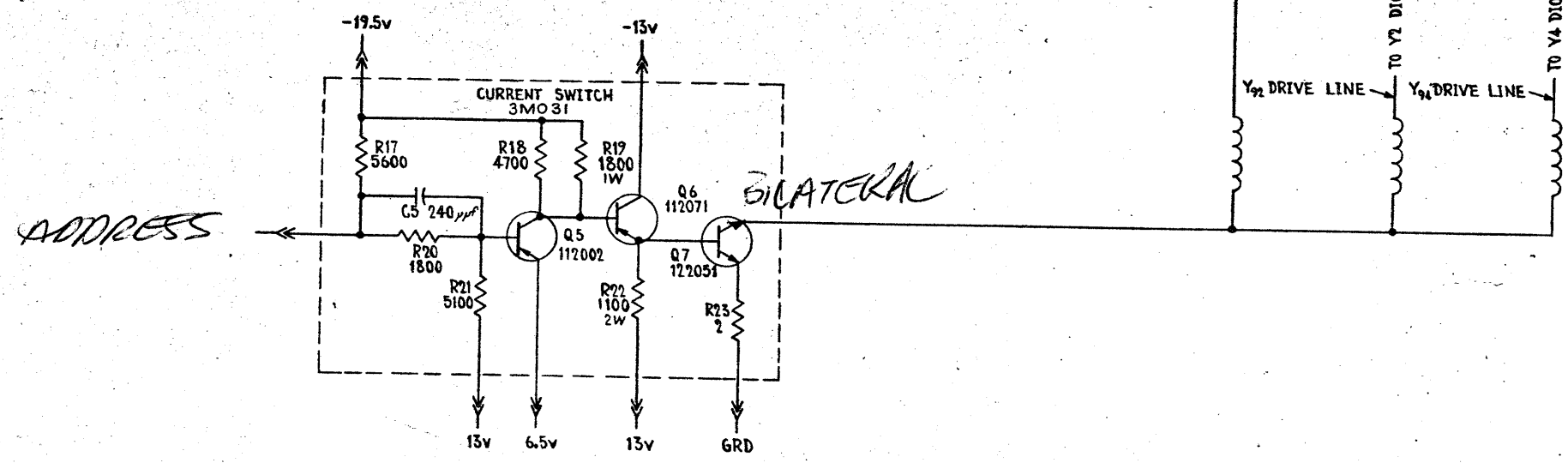
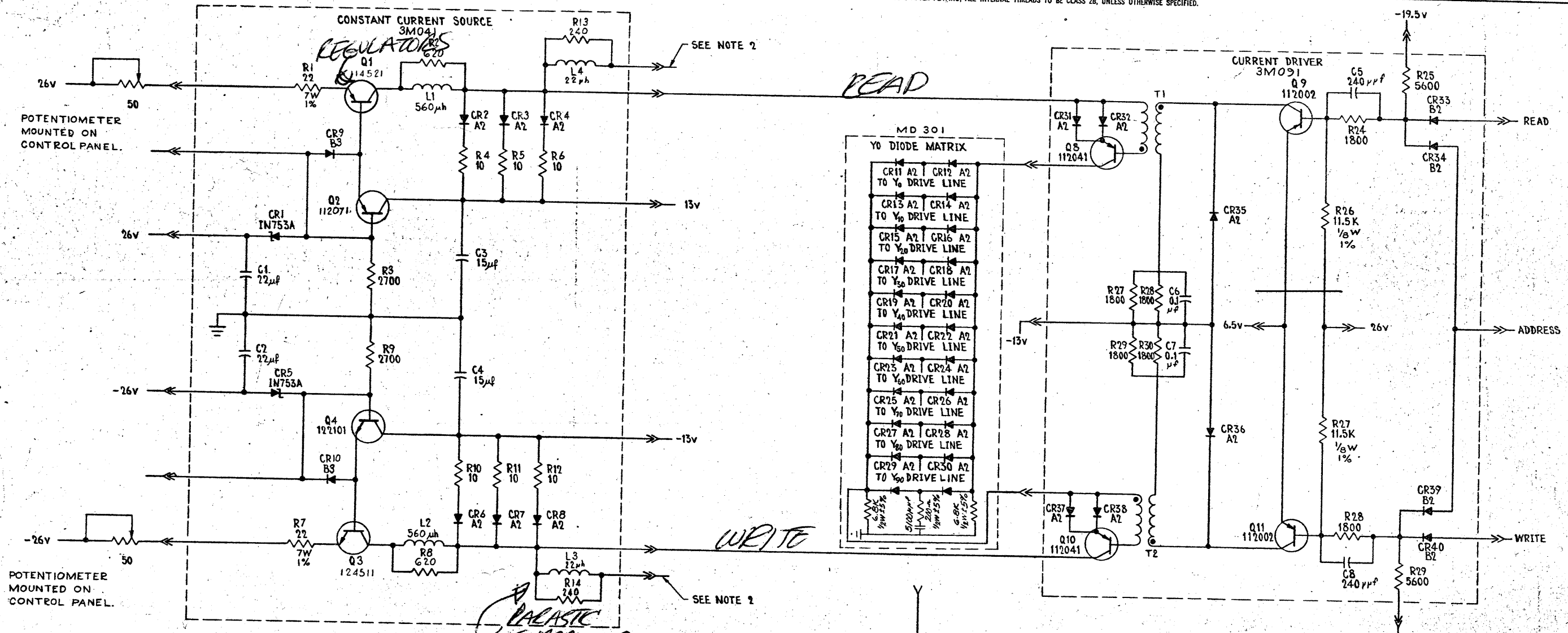
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	301 X CURRENT SWITCHES	
UP TO 4	±.001	FIRST MADE FOR MI 39251	USED ON 85/1953-502
ABOVE 4 TO 24	±.010	DRAWN BY: C. Amos Aug 2, 1961	CHECKED BY: Oct 27, 1960
ABOVE 24	±.015	DESIGNED BY: S. Amos Aug 2, 1961	COMMODITY CODE
REGULAR DIMENSIONS ±.010		RADIO CORPORATION OF AMERICA	
SEE PURCH SPEC. FOR STOCK TOLERANCE		CAMDEN, N.J.	
		CODE IDENT NO. 49671	

8617198

D 8617198

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS
AP. BY: [Signature]
DATE: 12/1/66



MD 301
Y0 DIODE MATRIX

CR11 A2	CR12 A2	TO Y ₀ DRIVE LINE
CR13 A2	CR14 A2	TO Y ₁₀ DRIVE LINE
CR15 A2	CR16 A2	TO Y ₂₀ DRIVE LINE
CR17 A2	CR18 A2	TO Y ₃₀ DRIVE LINE
CR19 A2	CR20 A2	TO Y ₄₀ DRIVE LINE
CR21 A2	CR22 A2	TO Y ₅₀ DRIVE LINE
CR23 A2	CR24 A2	TO Y ₆₀ DRIVE LINE
CR25 A2	CR26 A2	TO Y ₇₀ DRIVE LINE
CR27 A2	CR28 A2	TO Y ₈₀ DRIVE LINE
CR29 A2	CR30 A2	TO Y ₉₀ DRIVE LINE

- NOTES
1. THE "X" DRIVE SYSTEM IS IDENTICAL TO THE "Y" DRIVE SYSTEM EXCEPT READ & WRITE ARE INTERCHANGED.
 2. ALL RESISTANCE VALUES IN OHMS, 1/2W ± 5%, EXCEPT AS NOTED.

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL 303/304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		SCHEMATIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	"Y" MEMORY DRIVE SYSTEM	
UP TO 6	±.01	FIRST MADE FOR 301	USED ON
ABOVE 6 TO 24	±.015	DRAWN BY: [Signature]	CHECKED BY: [Signature]
ABOVE 24	±.02	DESIGNED BY: [Signature]	COMMODITY CODE
ANGULAR DIMENSIONS ±.01		RADIO CORPORATION OF AMERICA	D 8617099
SEE PURCH. SPEC. FOR STOCK TOLERANCE		CODE IDENT NO. 49671	

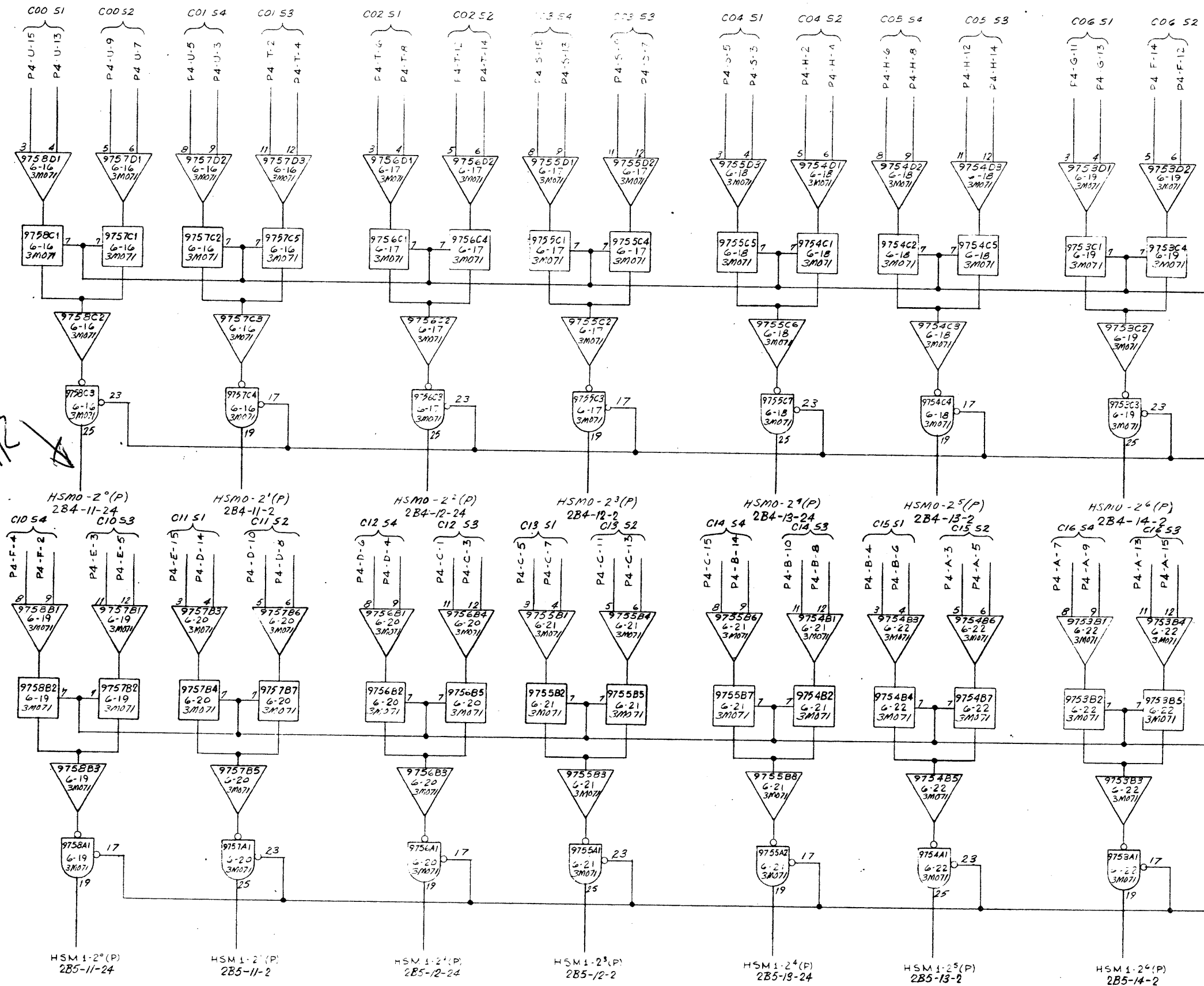
8617099

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DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	
REVISED & APPROVED	
Oct. 27, 1962	
S. Kelly, 1962	

TO SET MR



STATES AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

MODEL NO. 304

VARIATIONS ON FINISHED DIMENSIONS (UNLESS OTHERWISE MARKED)		
BASIC DIMENSIONS	1 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.01	±.005
4 TO 24	±.02	±.010
ABOVE 24	±.03	±.015
ABOVE 24	±.04	±.020
ANGULAR DIMENSIONS ±.1°		
SEE PUNCH SPEC FOR STOCK TOLERANCE		

ENGRG LOGIC DIAGRAM		KJB
SENSE AMPLIFIER		146
FIRST MADE FOR MI-39251		PF
USED ON 8511953-502		4704
DRAWN BY <i>L. Amos</i>	CHECKED BY <i>Oct 27, 1962</i>	245
DESIGNED BY <i>S. Kelly</i>	COMMODITY CODE	T.B.
RADIO CORPORATION OF AMERICA CAMDEN, N. J.		JF
CODE IDENT NO. 49671	D	
SIZE	8615975	

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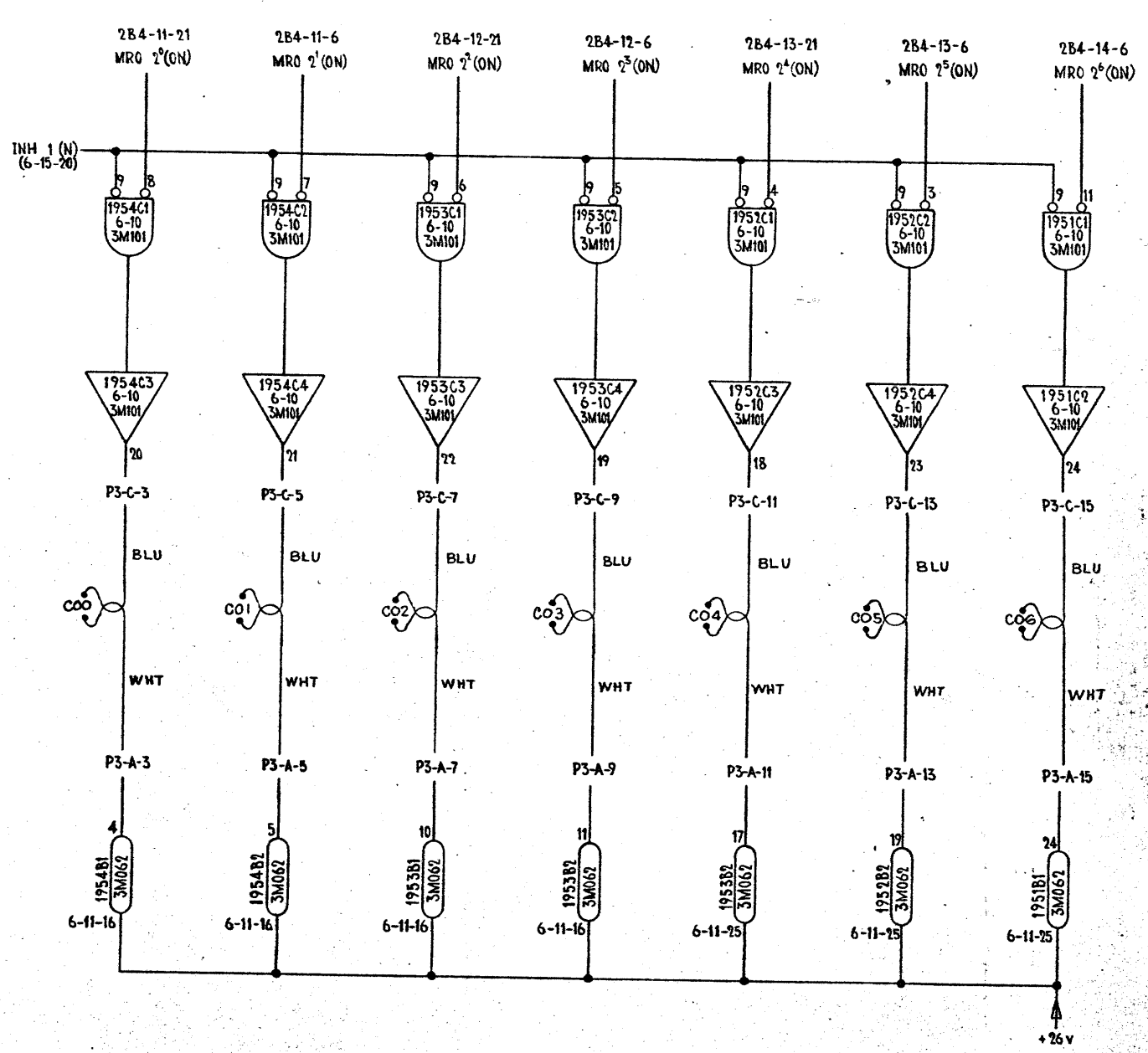
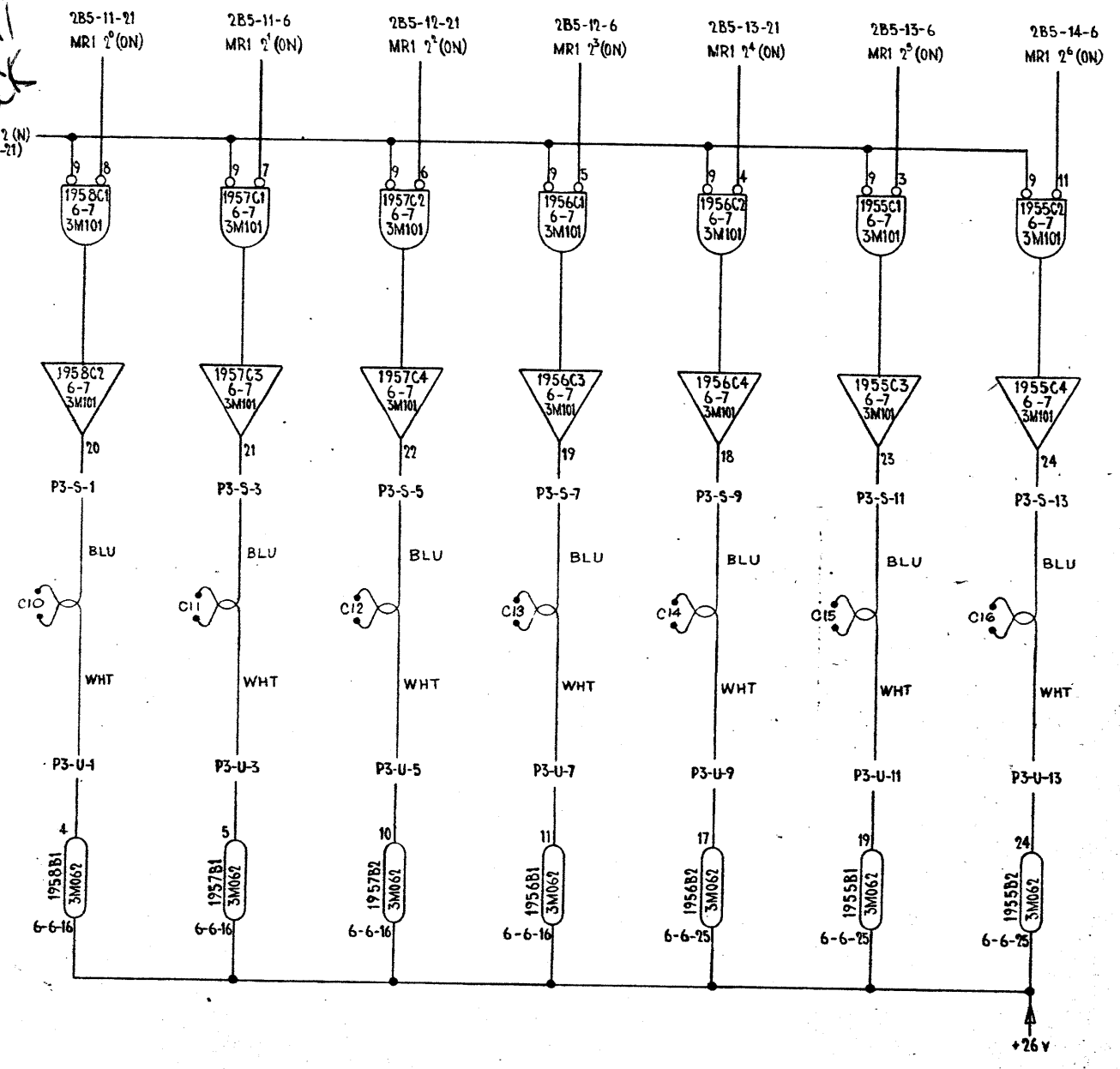
8615975

J. H. WELLS CO., PHILA.
"MATERIAL" 100-8

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY <i>W. J. ...</i>	0
DATE	
REVISED & APPROVED	
<i>W. J. ...</i>	1
TEST POINTS REMOVED	
<i>W. J. ...</i>	2

1 MHz Bit Clock



STATUS AT TRANSFER
TO WEST PALM BEACH

MODEL NO. 303

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 4	± .02	± .005
ABOVE 4 TO 24	± .010	
ABOVE 24	± .015	
ANGULAR DIMENSIONS ± 1/2°		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

ENGRG LOGIC DIAGRAM		
DIGIT PLANE DRIVERS & TERMINATION		
FIRST MADE FOR MI-39250	USED ON 8511953-501	
DRAWN BY <i>W. J. ...</i>	CHECKED BY <i>W. J. ...</i>	
DESIGNED BY <i>W. J. ...</i>	COMMODITY CODE	
RADIO CORPORATION OF AMERICA CAMDEN, N.J.		
CODE IDENT NO. 49671	SIZE	

8617195

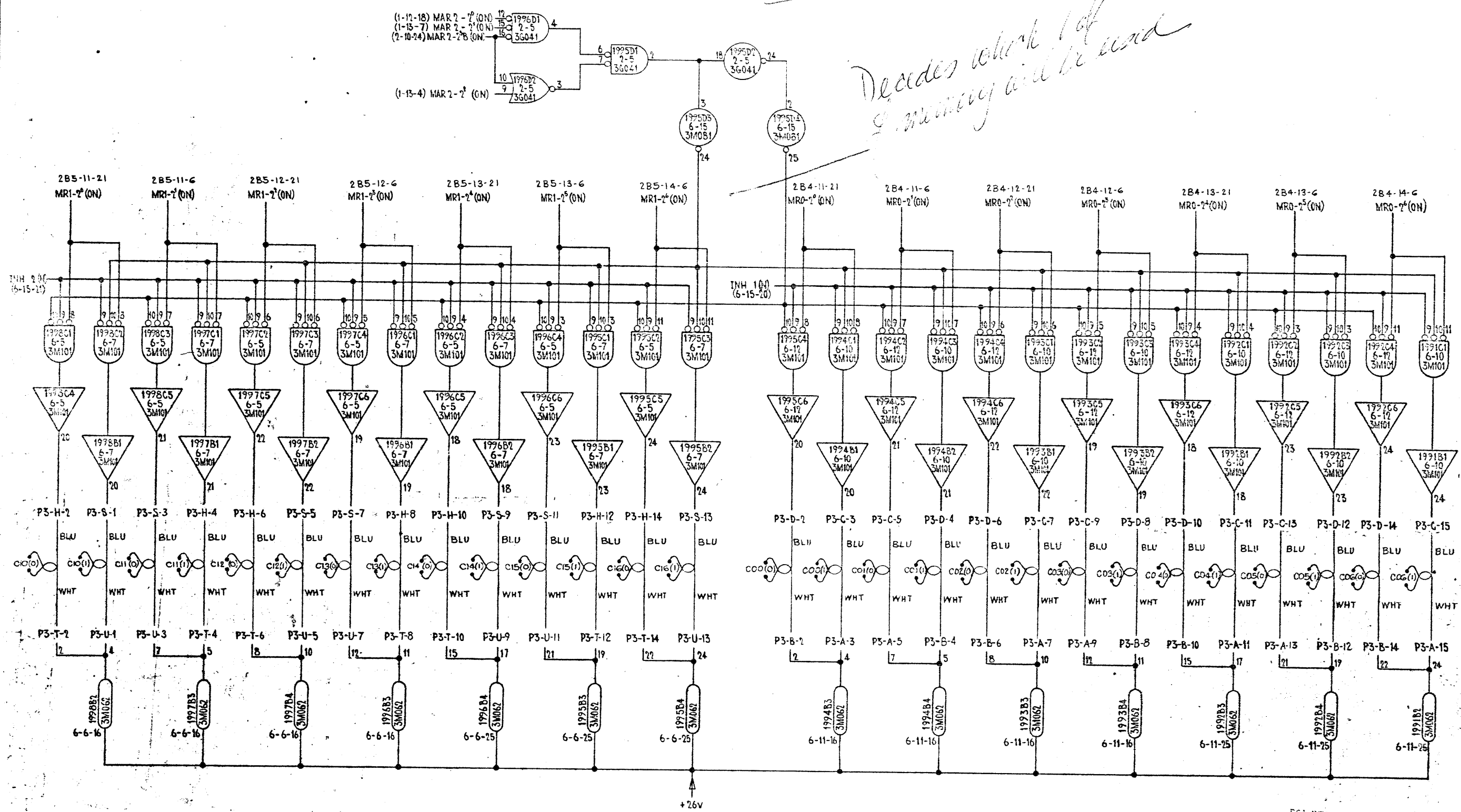
8617195

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2A AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
DATE	
REVISED	
BY	
DATE	
REVISED	
BY	
DATE	
REVISED	
BY	
DATE	
REVISED	
BY	
DATE	

Decides which of primary will be read



RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN GARDEN

MODEL NO. 304

ENGRG LOGIC DIAGRAM
DIGIT PLANE DRIVERS & TERMINATION
 FIRST MADE FOR M1-39251 USED ON 8511753-501
 DRAWN BY R.R. Wynn, Dec 12, 1960 CHECKED BY J. W. ...
 DESIGNED BY R.R. Wynn, Dec 12, 1960
 RADIO CORPORATION OF AMERICA
 CODE IDENT NO. 49671

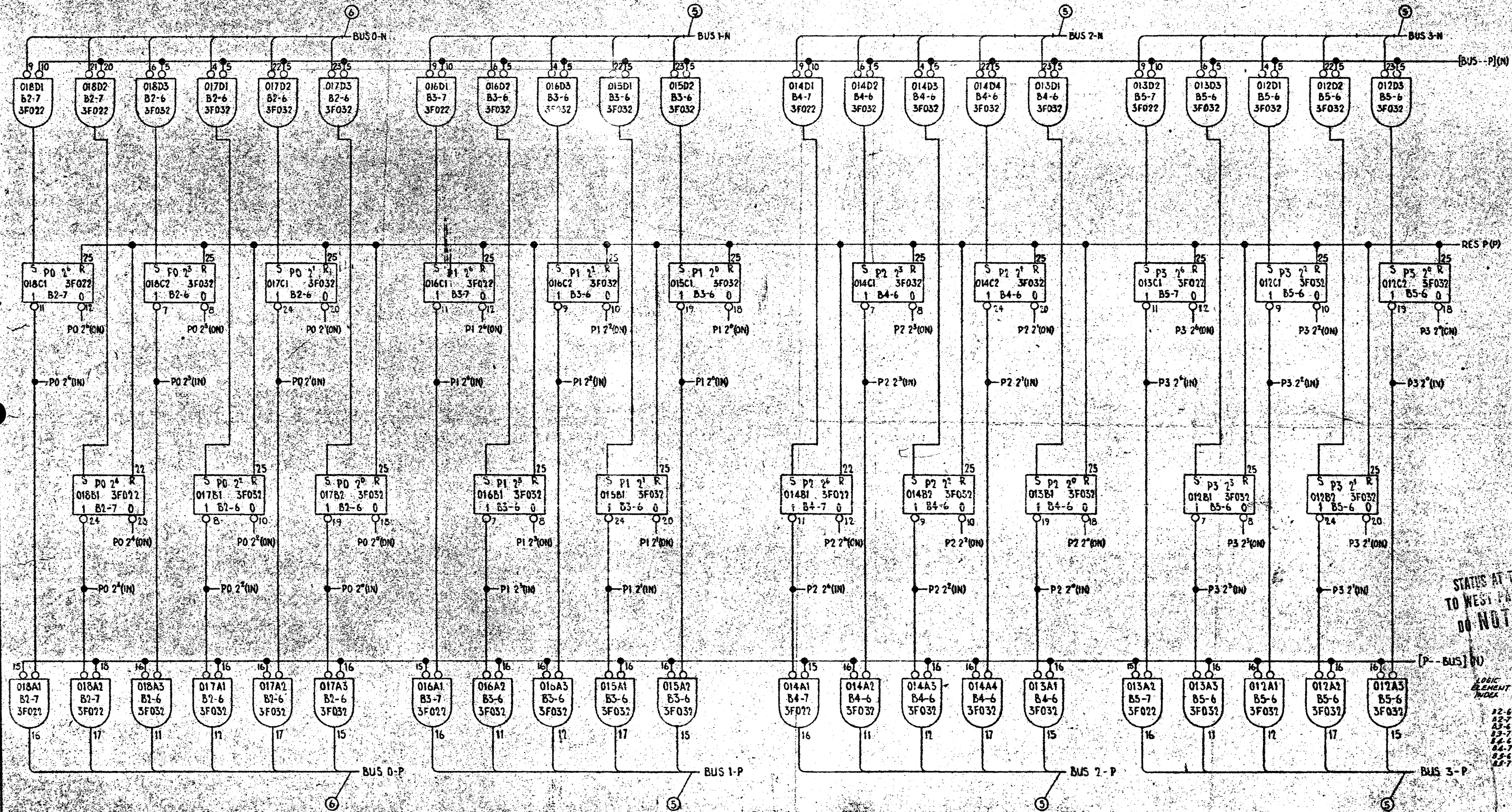
8617199

D 8617199

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING, AND CLASS 2 AFTER PLATING, ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS
 APPROVED
 November 4, 1964



STATUS AT TRANSFER
 TO WEST PALM BEACH
 DO NOT CHANGE

LOGIC
 ELEMENT
 INDEX
 82-6
 82-7
 83-6
 83-7
 84-6
 84-7
 85-6
 85-7

PROCESSOR, MODEL NOS 303&304

ENGRG LOGIC DIAGRAM
P REGISTER

REVISIONS ON PREVIOUS DRAWINGS	1 RACE	2 PLACE	3 PLACE
DATE	BY	BY	BY
APPROVED	DESIGNED BY	CHECKED BY	COMMODITY CODE

FIRST MADE FOR
 USED ON 6511953
 DRAWN BY
 DESIGNED BY
 CHECKED BY
 RADIO CORPORATION OF AMERICA
 CAMDEN, N. J.
 (CODE IDENT NO. 4967)

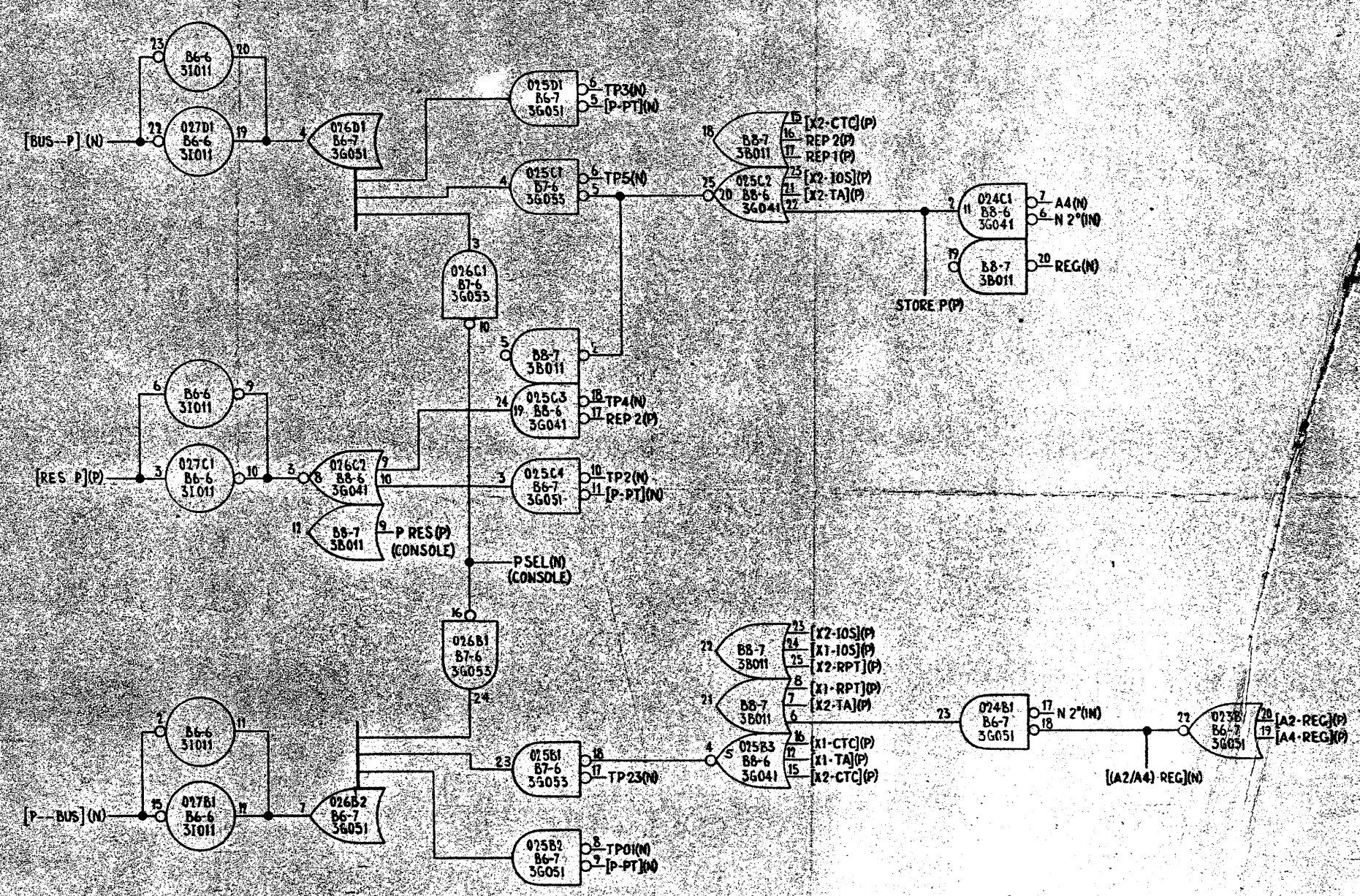
8617001

D 8617001

57

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A UNLESS OTHERWISE SPECIFIED. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
John A. ...	1
John A. ...	2



LOGIC ELEMENT INDEX
 86-6
 86-7
 87-6
 88-6
 88-7

PROCESSOR MODEL NOS. 303 & 304

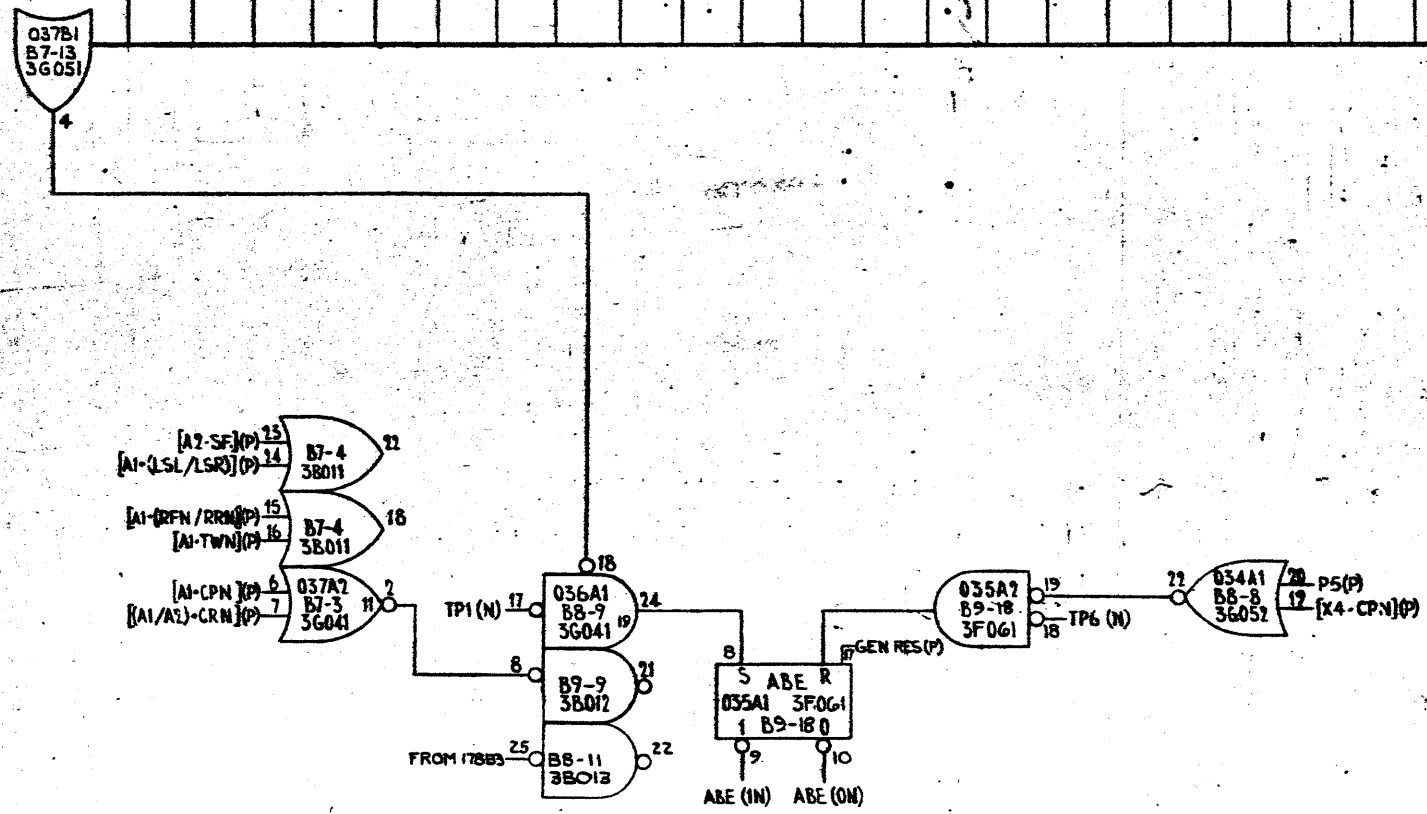
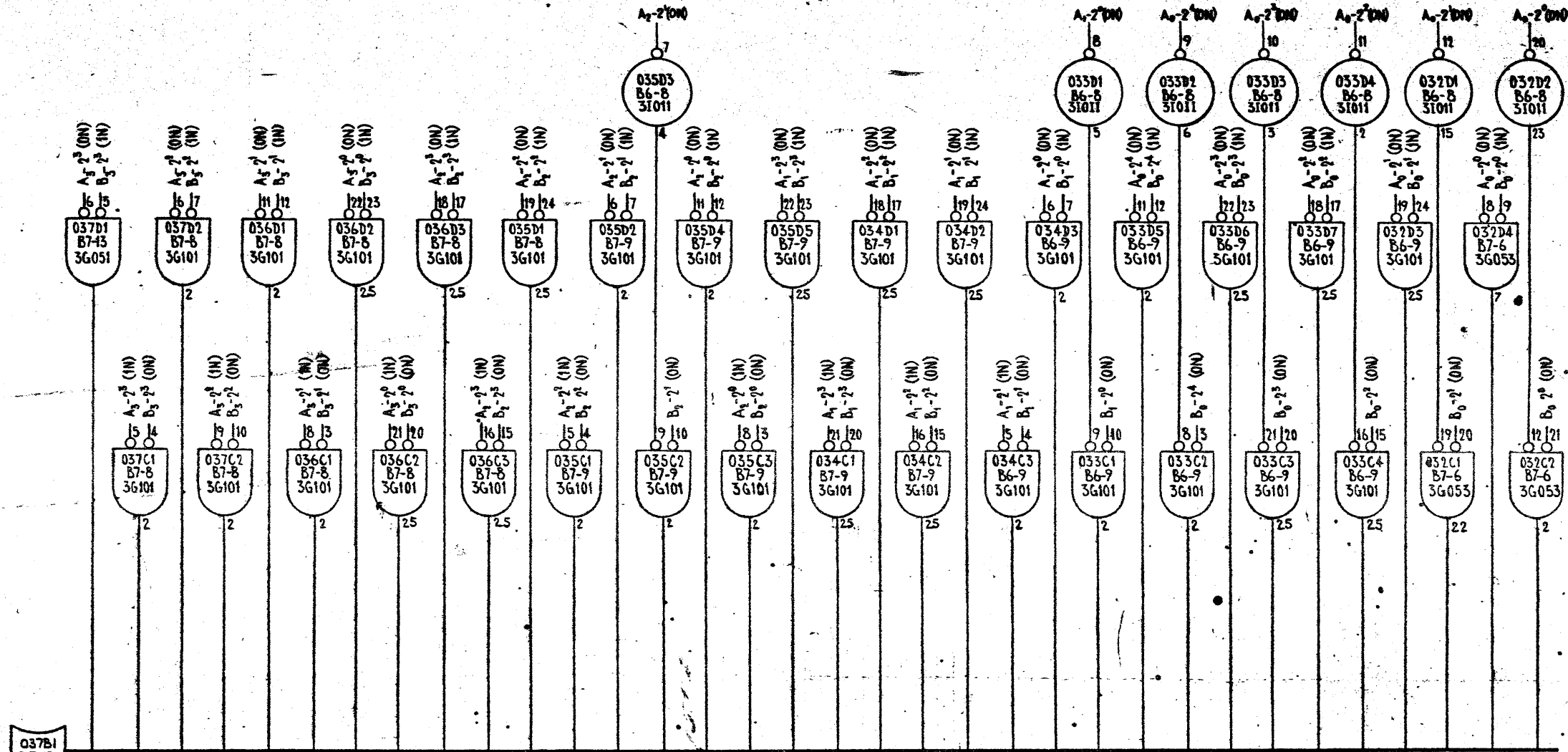
ENGRG LOGIC DIAGRAM			P-REGISTER CONTROL	
DATE	3	3	FIRST MADE FOR	USED ON 6511353
BY	3	3	DRAWN BY	DESIGNED BY
APPROV	3	3	COMMODITY CODE	
APPROV	3	3	RADIO CORPORATION OF AMERICA	
APPROV	3	3	CAMDEN N.J.	
APPROV	3	3	CODE IDENT NO. 49471	

8617002

D 8617002

52

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS

REVISED	0
APPROVED	1
APPROVED	2

DATE: 4/17/61

ZONE 46/14 AS: DELAYED LOGIC ELEMENTS 037A1 & 037A5

ZONE 46 PMS: 1-0301, 2-0302, 3-0303

PREP BY: JTC

DESIGNED BY: JTC

DATE: 4/17/61

LOGIC ELEMENT INDEX

86-8
86-9
87-3
87-4
87-8
87-9
87-10
88-3
88-9
88-11
89-9
89-10

RCA-WEST PALM BEACH DRAWING DO NOT CHANGE IN CAMDEN

PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM
A-B EQUALITY

ITERATIONS ON PAPERED DIMENSIONS	2	3	4
UP TO 4	0.00	0.00	0.00
ABOVE 4 TO 8	0.00	0.00	0.00
ABOVE 8 TO 24	0.00	0.00	0.00
ABOVE 24	0.00	0.00	0.00

FIRST MADE FOR: USED ON 8511953

DRAWN BY: [Signature] 11/26/59

DESIGNED BY: [Signature] 11/26/59

CHECKED BY: [Signature] 11/26/59

COMMODITY CODE

RADIO CORPORATION OF AMERICA

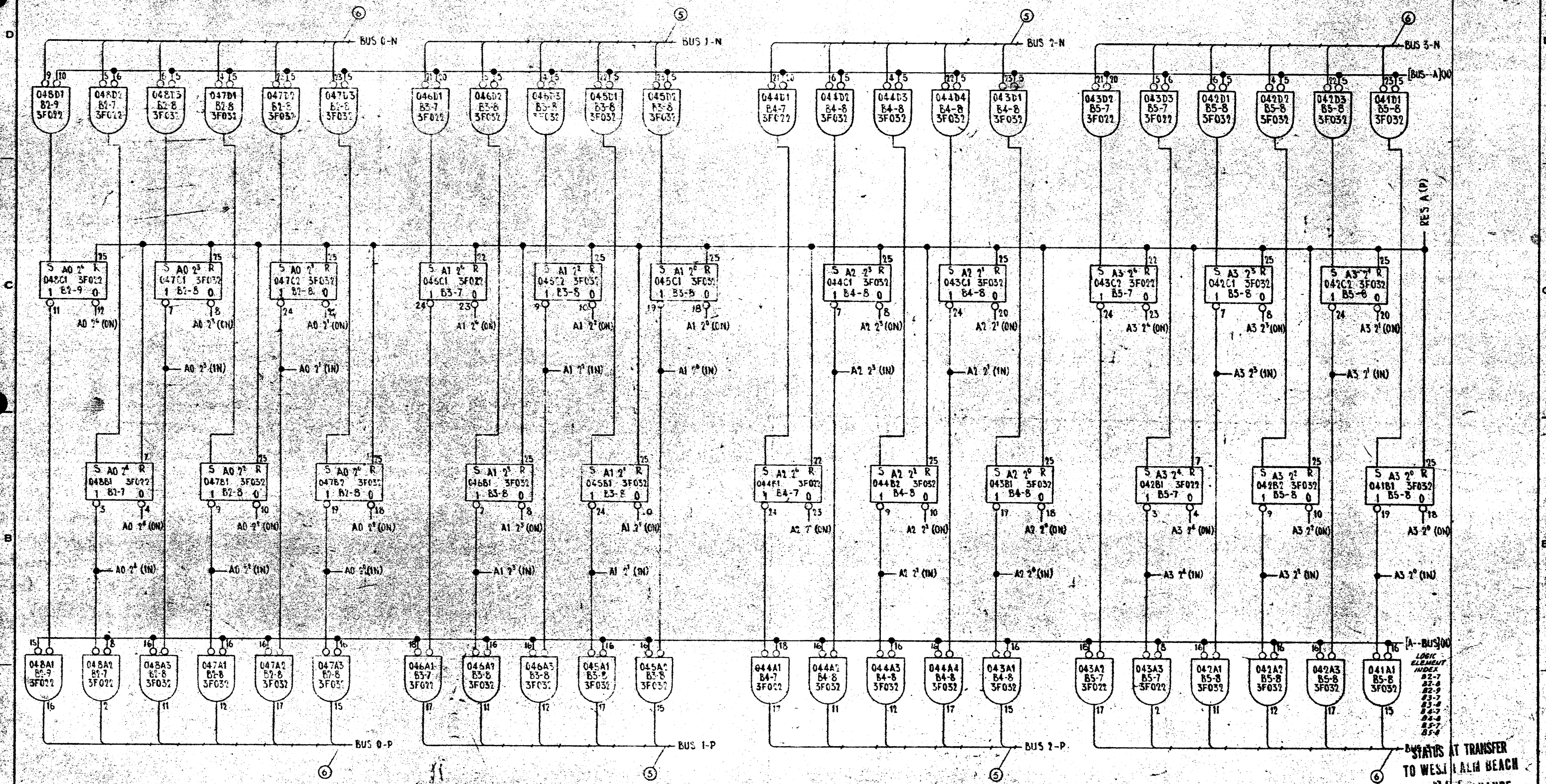
CAMDEN, N.J.

8617003

D 8617003

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING UNLESS OTHERWISE SPECIFIED. ALL EXTERNAL THREADS TO BE CLASS 2B BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B UNLESS OTHERWISE SPECIFIED.

REVISIONS	
1	APPROVED FOR PRODUCTION
2	APPROVED FOR PRODUCTION
3	APPROVED FOR PRODUCTION
4	APPROVED FOR PRODUCTION



LOGIC ELEMENT INDEX
 B2-7
 B2-8
 B2-9
 B3-7
 B3-8
 B4-7
 B4-8
 B5-7
 B5-8

STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

PROCESSOR MODEL NOS 303 & 304

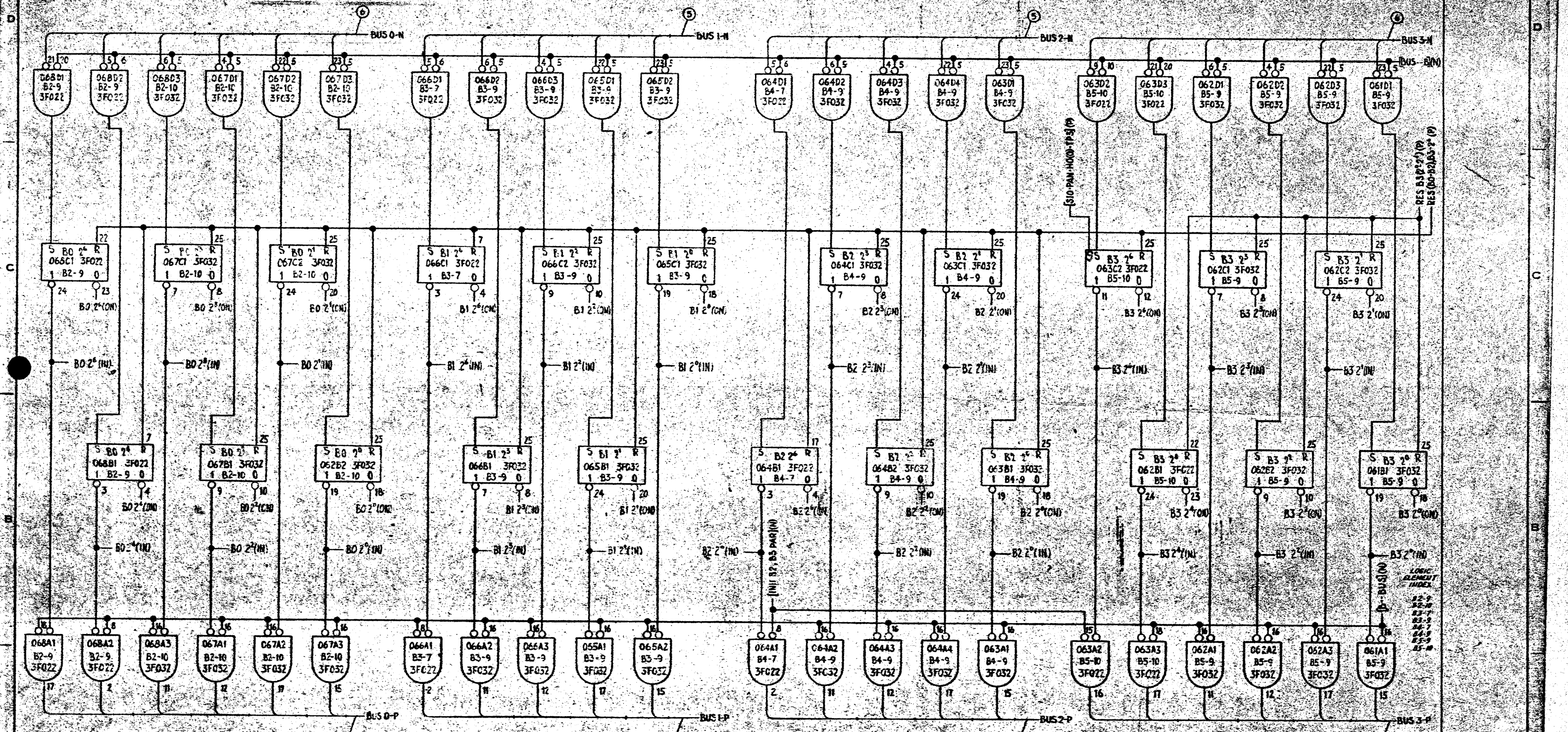
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<p>DATE: 11/15/54 DRAWN BY: [Signature] CHECKED BY: [Signature]</p>	<p>FIRST MADE FOR: [Blank] USED ON: 8511953 COMMODITY CODE: [Blank]</p>
<p>8617004</p>	<p>8617004</p>

54

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS

NO.	DATE	DESCRIPTION
1	4/16/51	INITIAL DESIGN



LOGIC ELEMENT INDEX

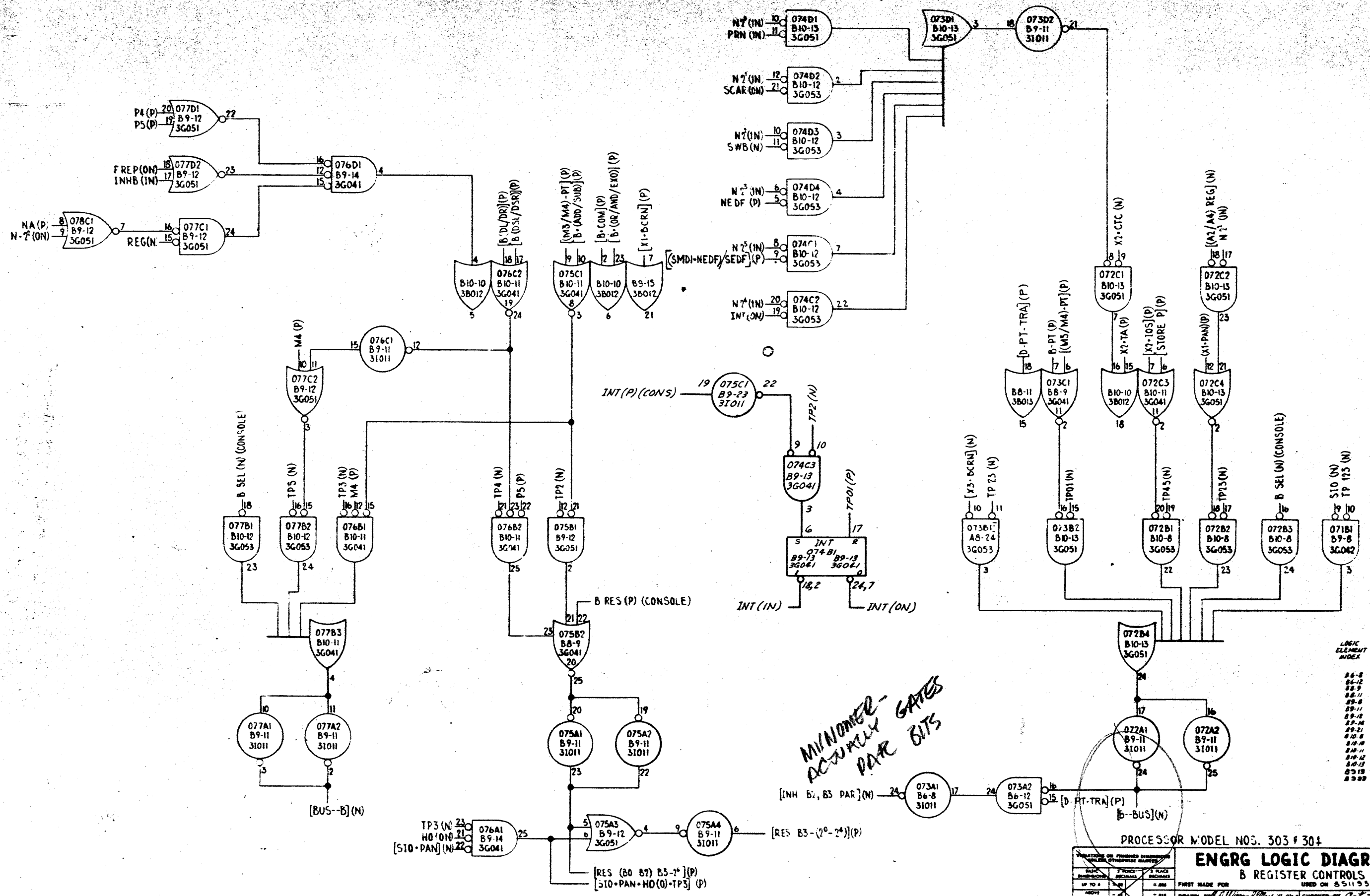
B2-9
B2-10
B3-7
B3-9
B4-7
B4-9
B5-9

STATUS AT TRANSFER TO WEST PALM BEACH

PROCESSOR MODEL NOS. 503 & 504 DO NOT CHANGE

<p>ENGRG LOGIC DIAGRAM B REGISTER</p>		<p>DATE: 4/16/51</p>
<p>DESIGNED BY: [Signature]</p>	<p>CHECKED BY: [Signature]</p>	<p>COMMODITY CODE</p>
<p>RADIO CORPORATION OF AMERICA</p>		<p>8617006</p>

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B UNLESS OTHERWISE SPECIFIED.



*MICROMETER-
ACTUALLY
PAR BITS*

REVISIONS	DATE	BY	DESCRIPTION
0			REVISED
1			REVISED
2			REVISED
3			REVISED
4			REVISED
5			REVISED
6			REVISED

ZONE ALL ELEMENT
074C2, PIN B10-12-B
SIGNAL WAS (CONSOL)
INT (P)
ADDED ZONE 4-5 (B-C)
ECN V704 W.D.
W.D. 20 Feb 62
R. Kelly

RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CADEN

PROCESSOR MODEL NOS. 303 & 304

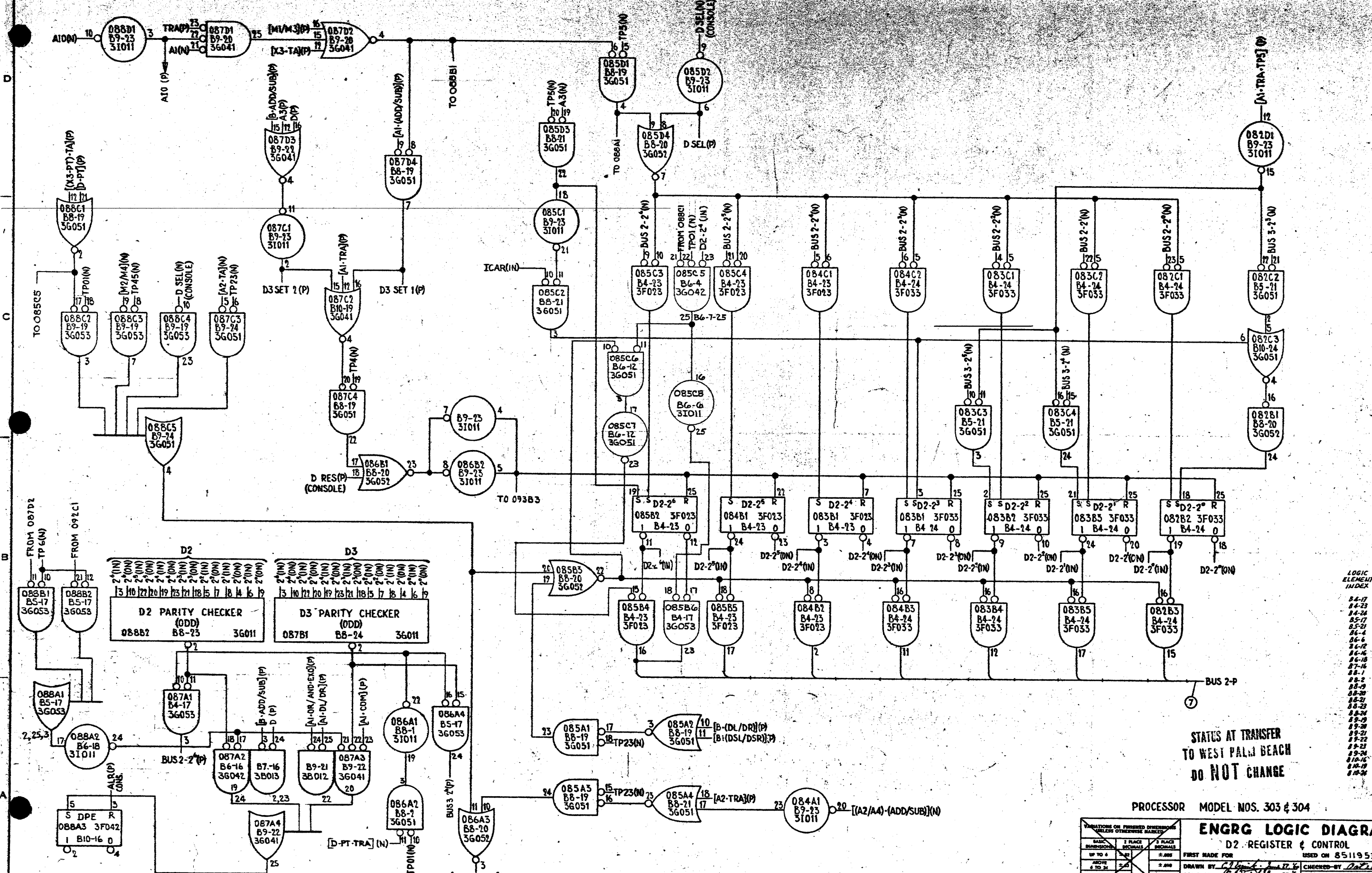
DATE	BY	REVISIONS	REVISIONS

ENGRG LOGIC DIAGRAM
B REGISTER CONTROLS
USED ON 8511555

FIRST MADE FOR: CHECKED BY:
DESIGNED BY: COMMODITY CODE:
RADIO CORPORATION OF AMERICA
CAMDEN, N. J.

8617007 **D 8617007**

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2B BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
REVISED	0
REVISED	1
REVISED	2
REVISED	3
REVISED	4

LOGIC ELEMENT INDEX

84-7
84-24
85-7
85-21
86-4
86-6
86-12
86-16
86-18
87-16
88-1
88-2
88-9
88-20
88-21
88-23
88-24
89-9
89-20
89-21
89-22
89-23
89-24
89-16
89-18

STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

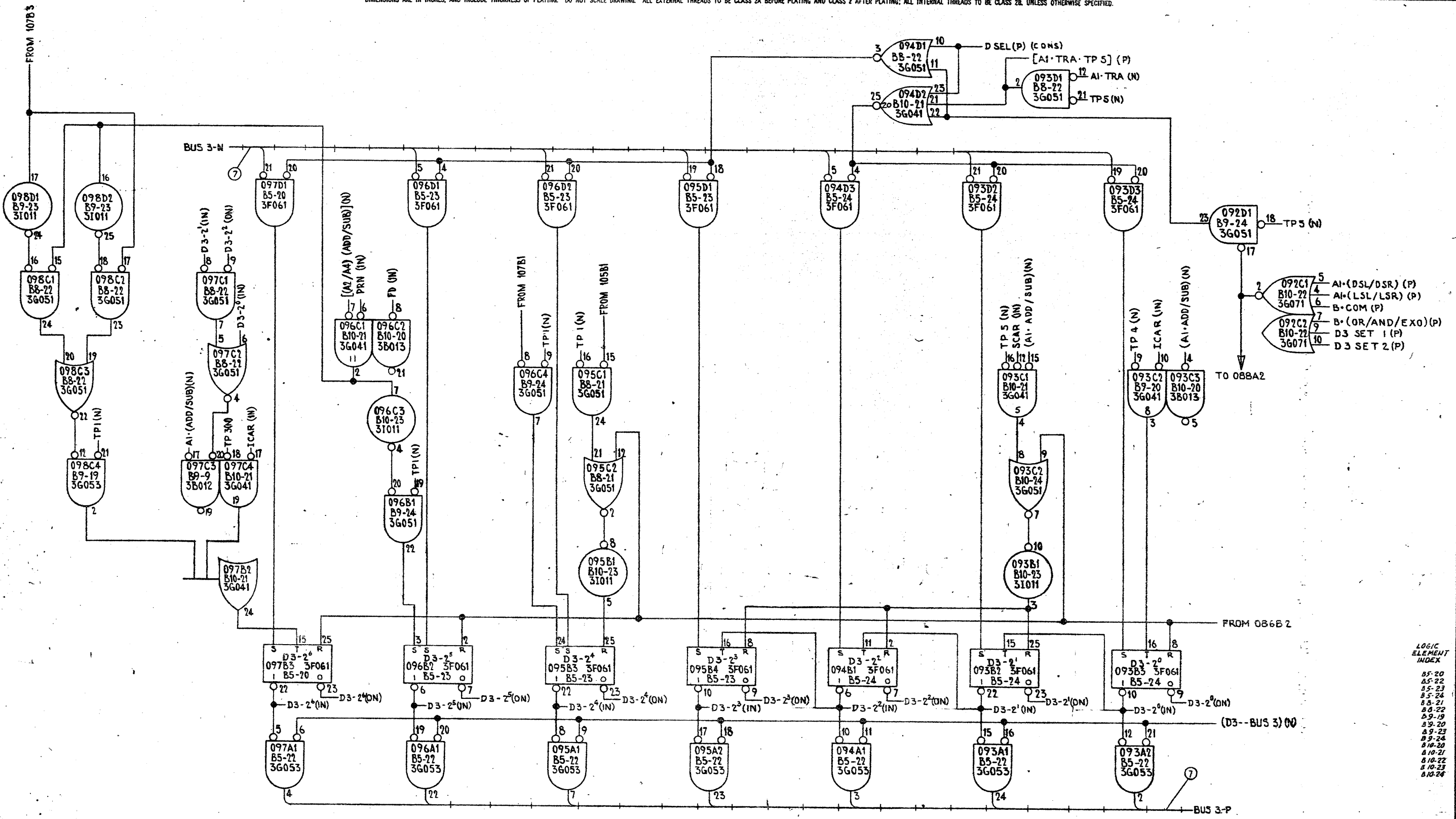
PROCESSOR MODEL NOS. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE SPECIFIED		ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	1 PLACE DECIMALS	D2 REGISTER & CONTROL	
UP TO 4	0.005	FIRST MADE FOR	USED ON 8511953
4 TO 24	0.002	DRAWN BY	CHECKED BY
24 TO 48	0.001	DESIGNED BY	COMMODITY CODE
48 TO 96	0.0005	RADIO CORPORATION OF AMERICA	
96 TO 192	0.0002	CAMDEN N.J.	
192 TO 384	0.0001	CODE IDENT NO. 49671	

8617008

D 8617008

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
REVISED	0
APPROVED	1
APPROVED	2
APPROVED	3

LOGIC ELEMENT INDEX

85-20
85-22
85-23
85-24
89-19
89-20
89-23
89-24
89-25
89-26
89-27
89-28
89-29
89-30

RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

PROCESSOR MODEL NO'S. 303 & 304

ENGRG. LOGIC DIAGRAM
D3 REGISTER

USED ON 8511353

DESIGNED BY	CHECKED BY
DRAWN BY	DATE
APPROVED BY	DATE

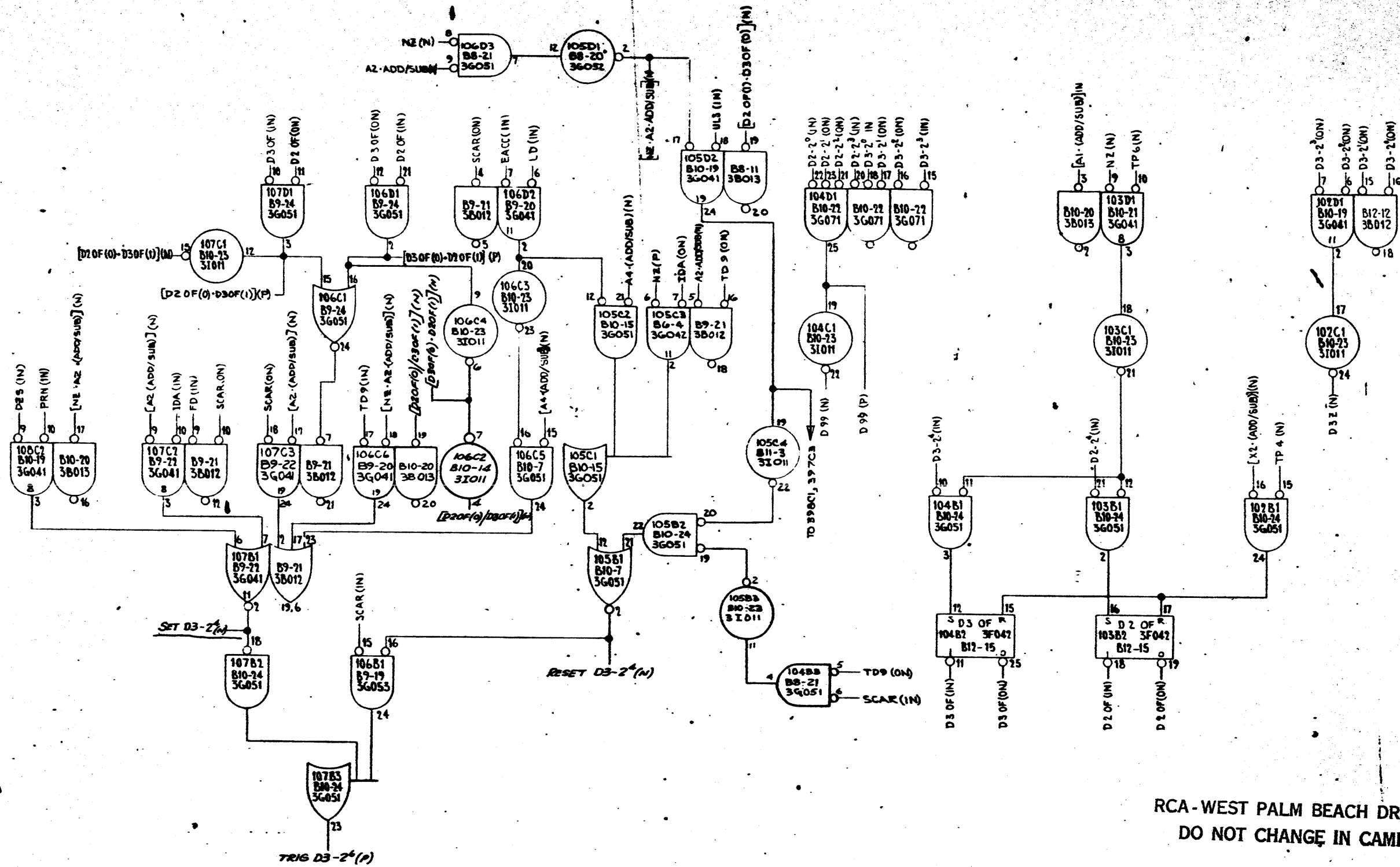
RADIO CORPORATION OF AMERICA
CAMDEN, N. J.

D 8617009

8617009

89

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

REVISIONS	
REVISED	1
REVISED	2
REVISED	3
REVISED	4
REVISED	5

106C2 ADDED AS PER ECN.
106C6-19 WAS D3 OF (ON)
107B1-2 WAS 098D1
105B1-2 WAS 095C1
ECN V704 P.H.
2/20/61
3/15/61

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8617010

PROCESSOR MODEL NO'S. 363 & 304

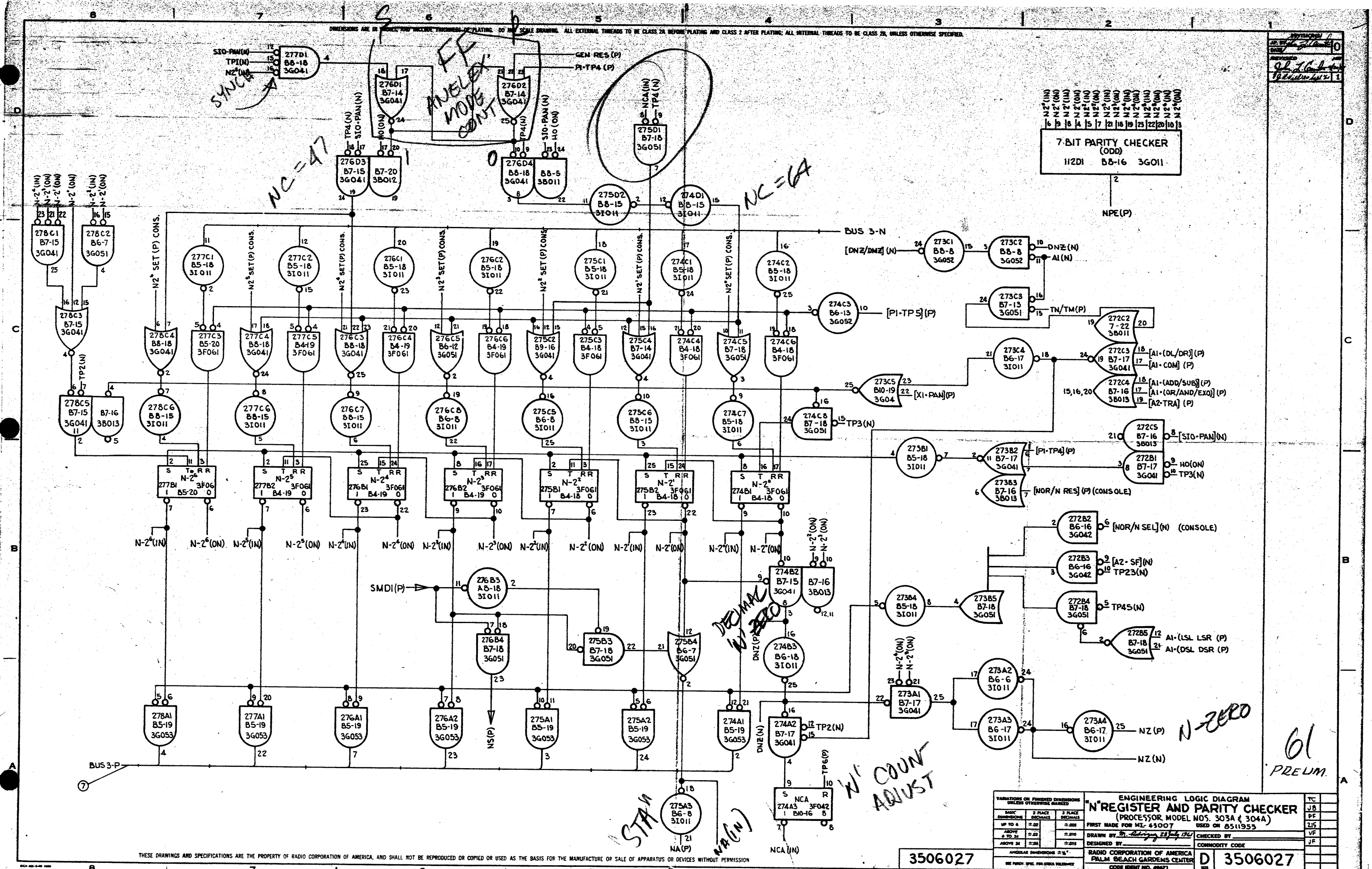
ENGRG. LOGIC DIAGRAM		D3 REGISTER CONTROLS	
DATE	DESIGNED BY	CHECKED BY	USED ON
APPROVED BY	DATE	DATE	DATE
RADIO CORPORATION OF AMERICA		CAMDEN, N.J.	
D		8617010	

old

DIMENSIONS ARE IN INCHES FOR MACHINE THROUGH-HOLE PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2A, UNLESS OTHERWISE SPECIFIED.

REVISED
DATE
BY
P. J. GARDNER

7-BIT PARITY CHECKER
(ODD)
112D1 B8-16 3G011



VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.005	±.002
ABOVE 4 TO 24	±.010	±.005
ABOVE 24	±.015	±.008

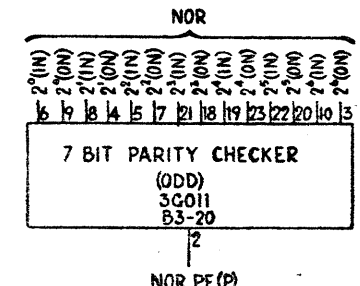
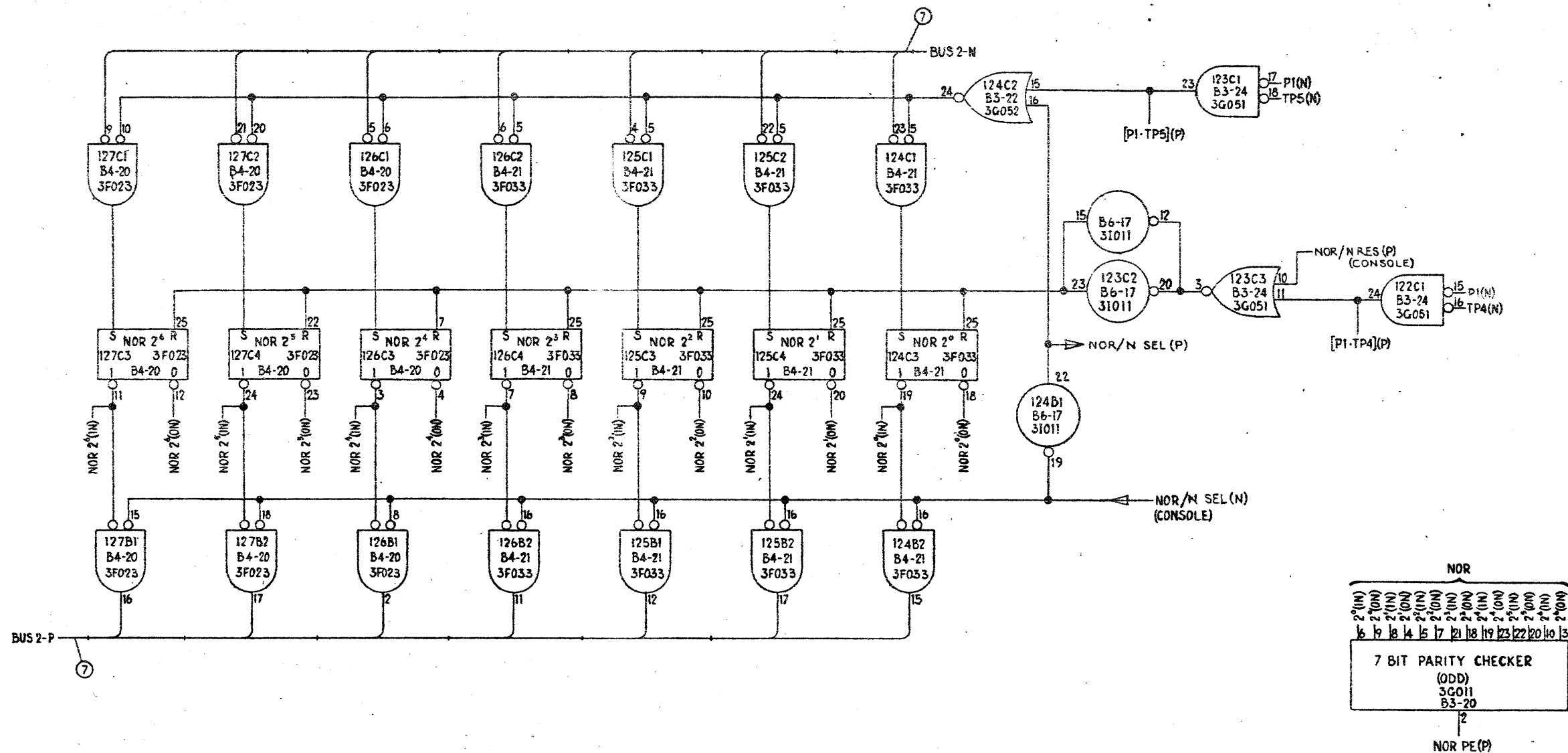
ENGINEERING LOGIC DIAGRAM		TC
N-REGISTER AND PARITY CHECKER		J.B.
(PROCESSOR MODEL NOS. 303A & 304A)		PE
FIRST MADE FOR MI-45007		ZIS
USED ON B511955		VF
DRAWN BY: P. J. GARDNER	CHECKED BY:	J.F.
DESIGNED BY:	COMMUNITY CODE	
RADIO CORPORATION OF AMERICA		
PALM BEACH GARDENS CENTER		
CODE IDENT NO. 49671		

3506027

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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
APPROVED	ME
John A. Lamb	
NOVEMBER 4, 1961	



LOGIC ELEMENT INDEX
 B3-20
 B3-22
 B3-24
 B4-20
 B4-21
 B6-17

STATUS AT TRANSFER
 TO WEST PALM BEACH
 DO NOT CHANGE

62

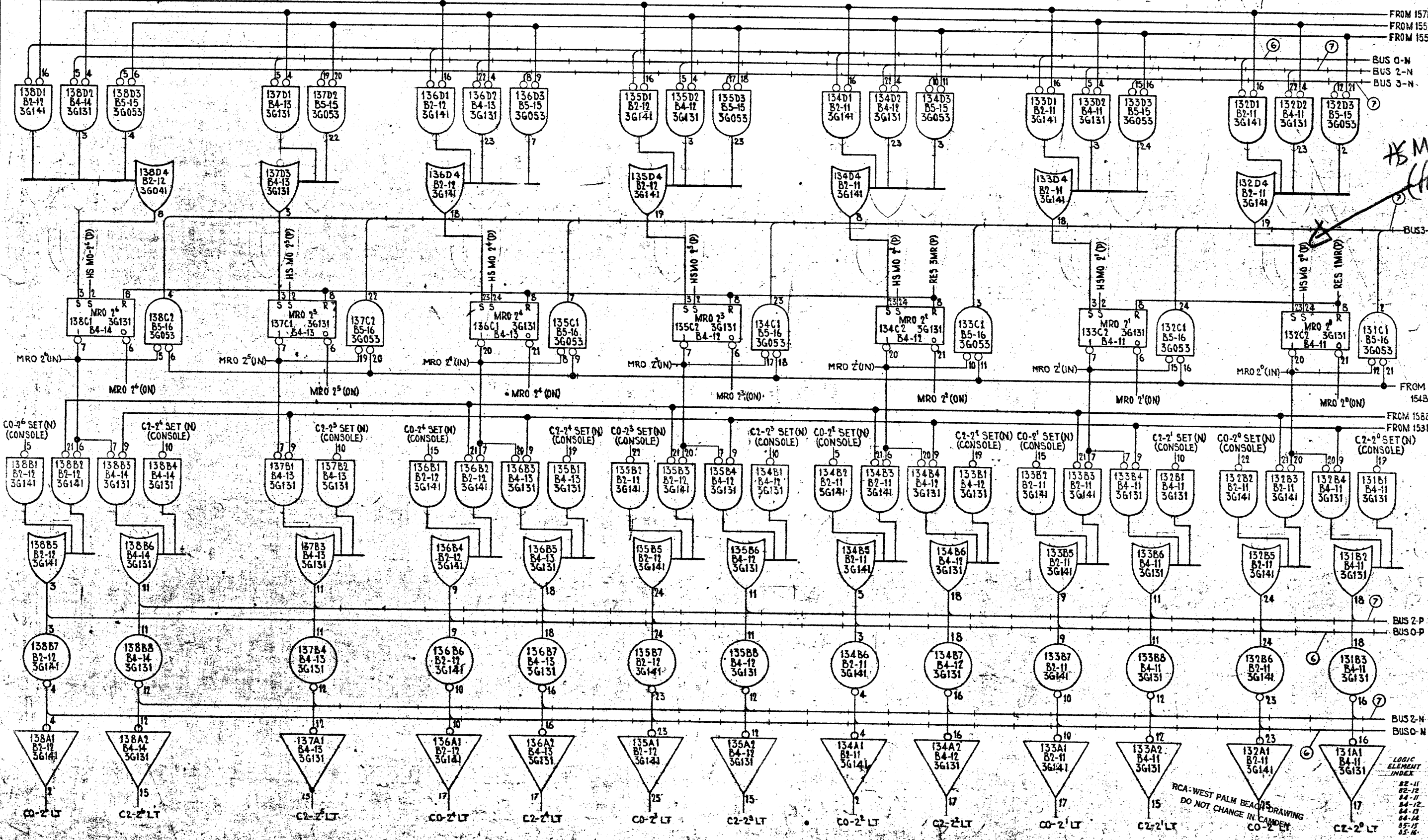
PROCESSOR MODEL NOS. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM		J8
BASIC DIMENSIONS	1 PLACE DECIMALS	3 PLACE DECIMALS	NOR REGISTER & CONTROL	J7
UP TO 4	±.01	±.005	FIRST MADE FOR	PF
ABOVE 4 TO 24	±.02	±.010	USED ON 8511953	VF
ABOVE 24	±.03	±.015	DRAWN BY <i>SL</i>	VF
			DESIGNED BY <i>SL</i>	VF
			CHECKED BY <i>SL</i>	VF
			COMMUNITY CODE	
RADIO CORPORATION OF AMERICA			D	
CAMDEN N.J.			8617012	

8617012

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	M. J. [Signature]
APPROVED	M. J. [Signature]
DATE	NOVEMBER 4, 1961
ZONE	IC, FROM 15381
WAS	FROM 15482
ECN	V70A
WO	207
DATE	11/14/61
BY	[Signature]



HM OUTPUT
(from sense amps)

RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN
CO-2

PROCESSOR MODEL NO'S. 303 & 304

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF BIRD CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION.

8617013

ENGRG. LOGIC DIAGRAM	
MRO REGISTER	
DESIGNED BY	DESIGNED BY [Signature]
CHECKED BY	CHECKED BY [Signature]
DATE	DATE 11/14/61
APPROVED	APPROVED [Signature]
DATE	DATE 11/14/61
BY	BY [Signature]
COMPANY CODE	COMPANY CODE
RADIO CORPORATION OF AMERICA	RADIO CORPORATION OF AMERICA
CAMDEN, N.J.	CAMDEN, N.J.

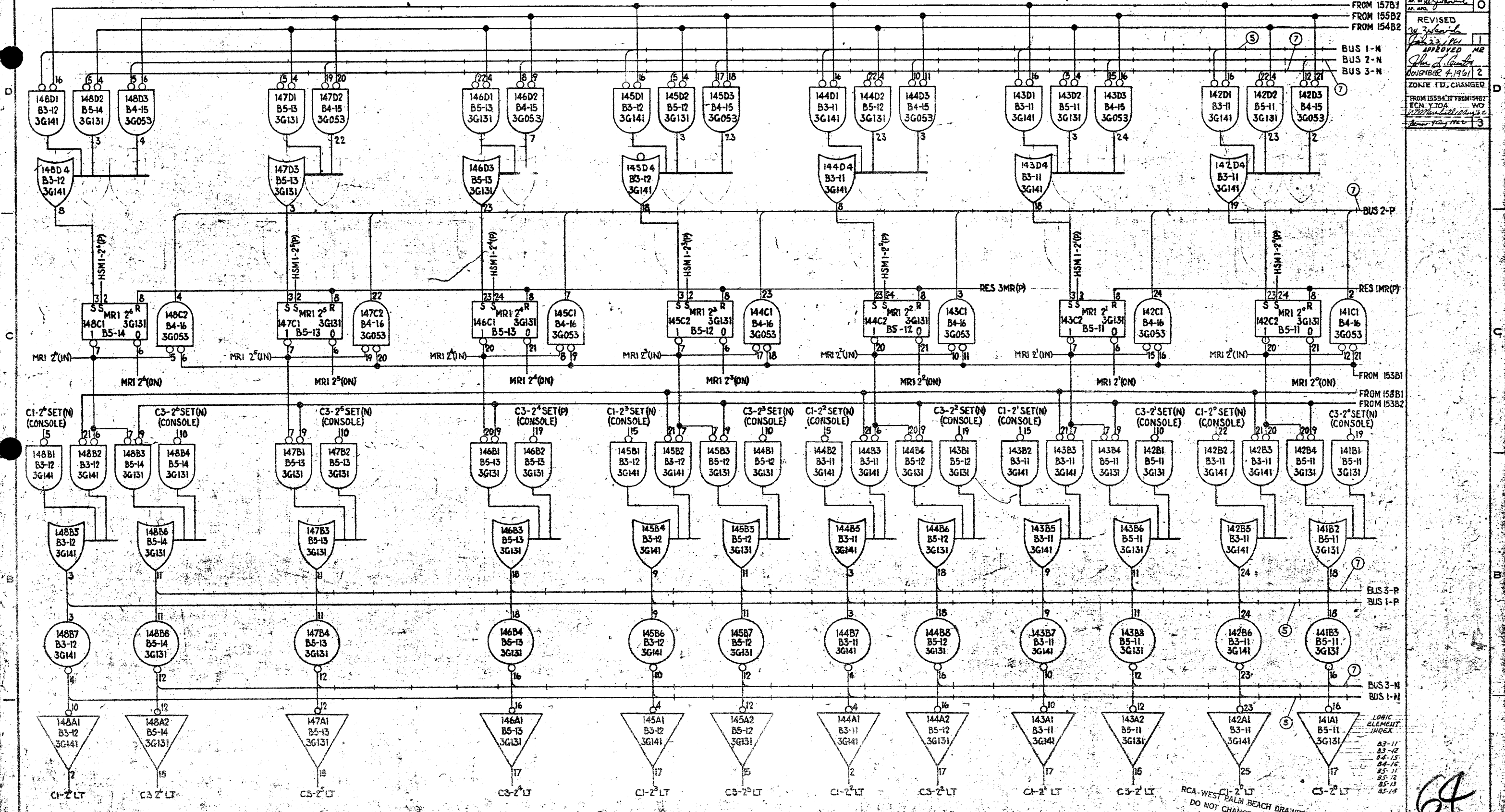
LOGIC ELEMENT INDEX

B2-11
B2-12
B4-11
B4-12
B4-13
B4-14
B5-15
B5-16

65

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
REVISED	1
APPROVED	MR
DATE	NOVEMBER 4, 1961
FROM 1558A TO 1558B	WO
FROM 15482	3



LOGIC ELEMENT INDEX
 B3-11
 B3-12
 B4-15
 B4-16
 B5-11
 B5-12
 B5-13
 B5-14

RCA WEST PALM BEACH DRAWING
 DO NOT CHANGE IN CARDS 504

PROCESSOR MODEL NO'S. 3034, 304

ENGR. LOGIC DIAGRAM

MRI REGISTER

FIRST MADE FOR: USED ON: 8511953

DRAWN BY: [Signature] CHECKED BY: [Signature]

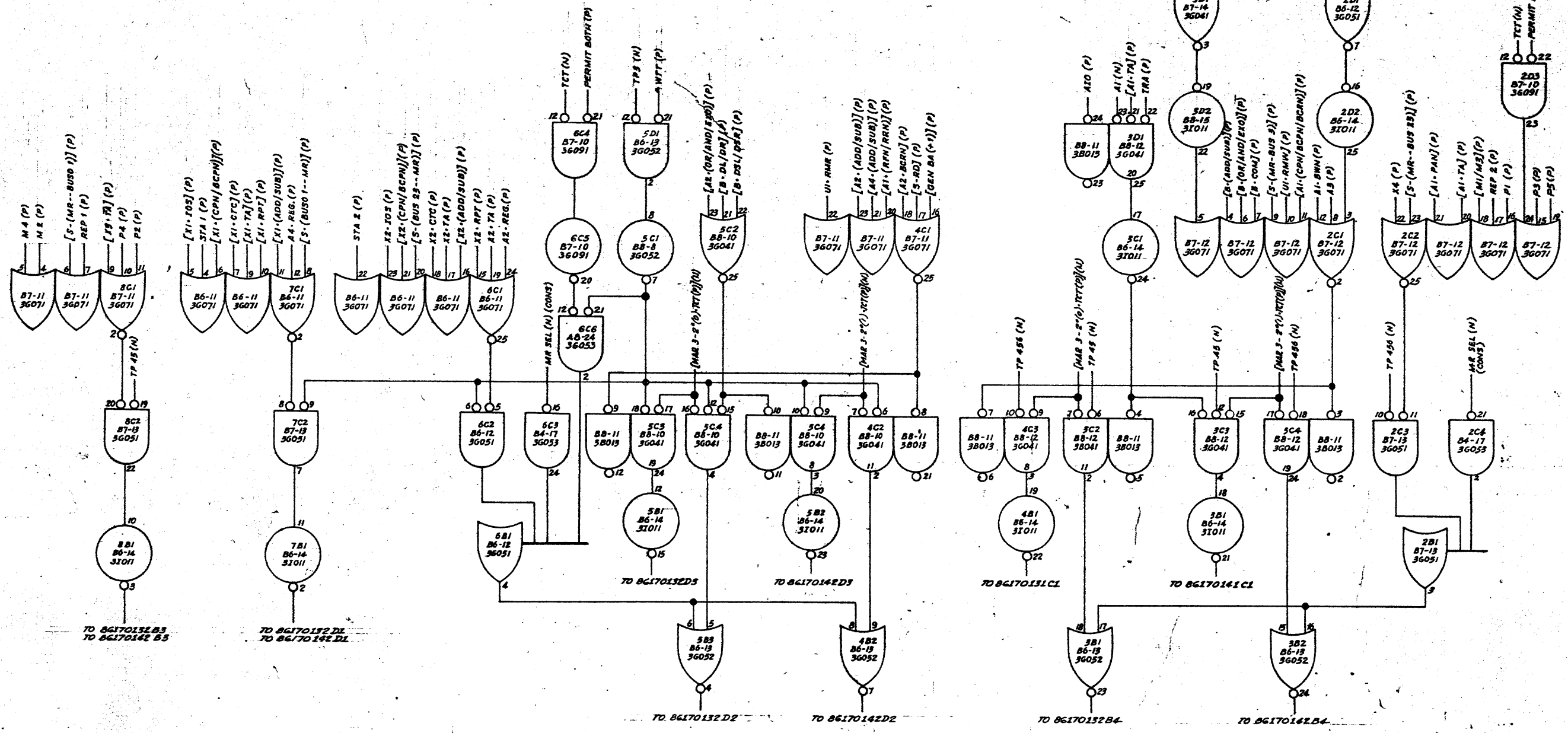
DESIGNED BY: [Signature] COMMUNITY CODE: [Signature]

RADIO CORPORATION OF AMERICA
 CAMDEN, N. J.

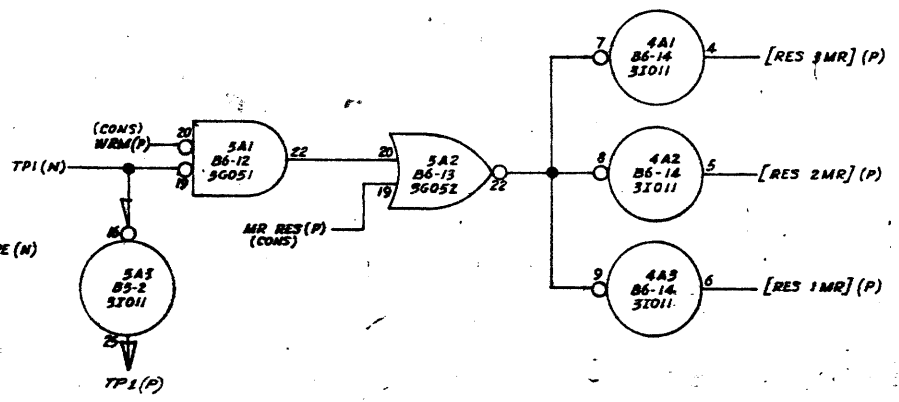
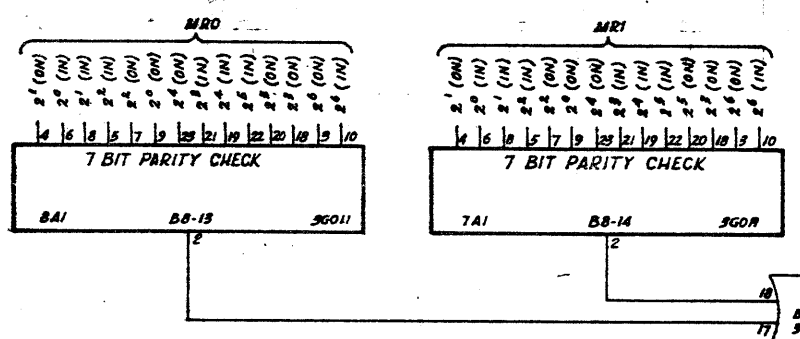
8617014

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF MATERIAL. DO NOT SCALE DRAWING. ALL EXTENSIVE DIMENSIONS TO BE SHOWN BY DIMENSION LINES AND DIMENSION POINTS. ALL INTERNAL DIMENSIONS TO BE SHOWN BY DIMENSION LINES AND DIMENSION POINTS.

REDRAWN
REVISED AS PER SCR 1704
MR.
11/27/52
15



- LOGIC ELEMENT INDEX
- 8A-17
 - 8B-2
 - 8C-11
 - 8D-12
 - 8E-13
 - 8F-14
 - 8G-11
 - 8H-8
 - 8I-10
 - 8J-11
 - 8K-12
 - 8L-13
 - 8M-14



RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

65

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8617015

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	1 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4"	±.01	±.005
ABOVE 4 TO 16"	±.02	±.008
ABOVE 16 TO 36"	±.03	±.012
ANGULAR DIMENSIONS ± 15°		
SEE FIG. SPEC. FOR STOCK TOLERANCE		

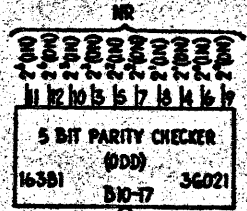
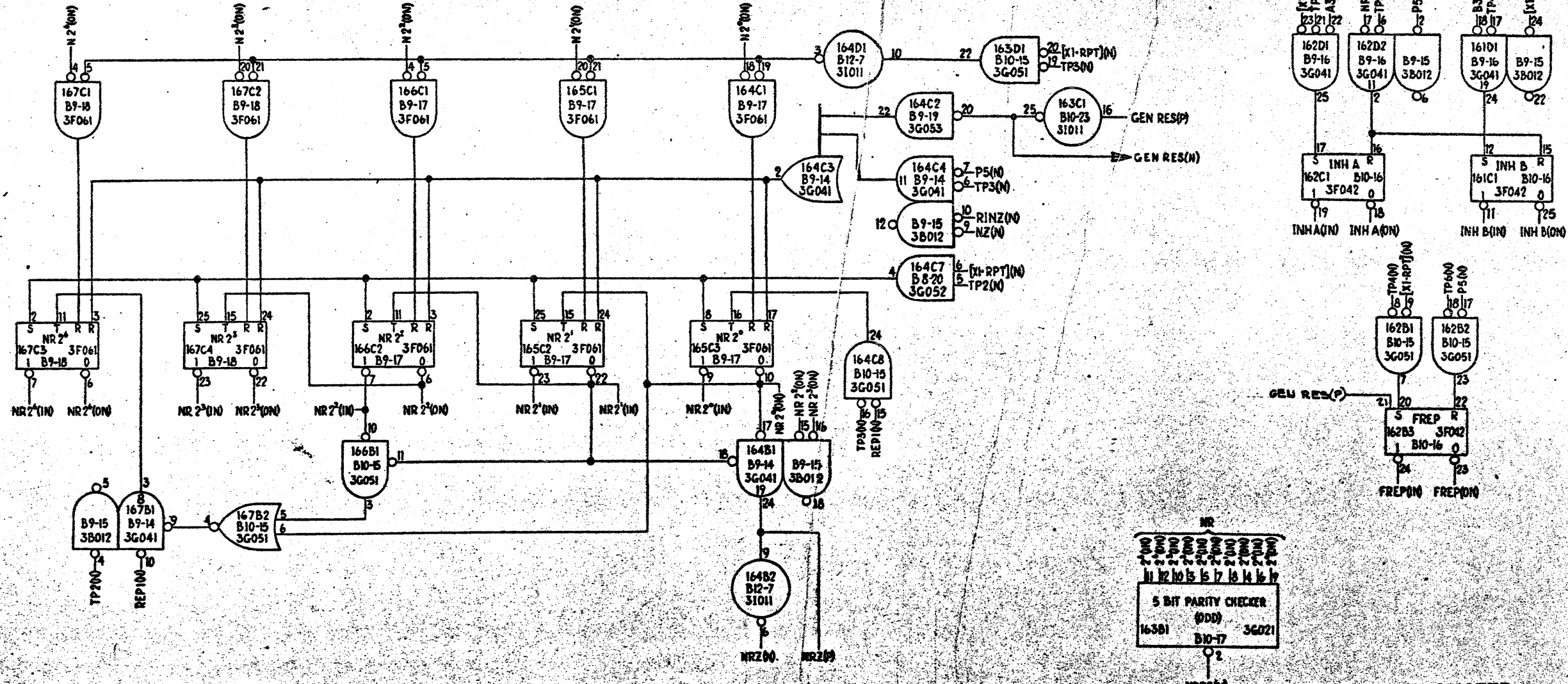
ENGINEERING LOGIC DIAGRAM
MR REGISTER CONTROLS
(PROCESSOR MODELS 303A & 304A)
FIRST MADE FOR ME-43007 & 3008 USED ON 8511953
DRAWN BY E.A. REGAN AUG 18, 1954
DESIGNED BY J. LUKSINGER AND H. H. JENKINS
CHECKED BY J. LUKSINGER
DATE: OCT 25 1954
RADIO CORPORATION OF AMERICA
PALM BEACH GARDENS CENTER
CODE IDENT NO. 4957

COMMODITY CODE
D 8617015

JB
TC
PF
VF
WF
WF
WF
WF

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A, BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
REVISED	1
REVISED	2
REVISED	3
REVISED & APPROVED	4
REVISED	5



**STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE**

66

PROCESSOR MODEL NOS. 303 & 304

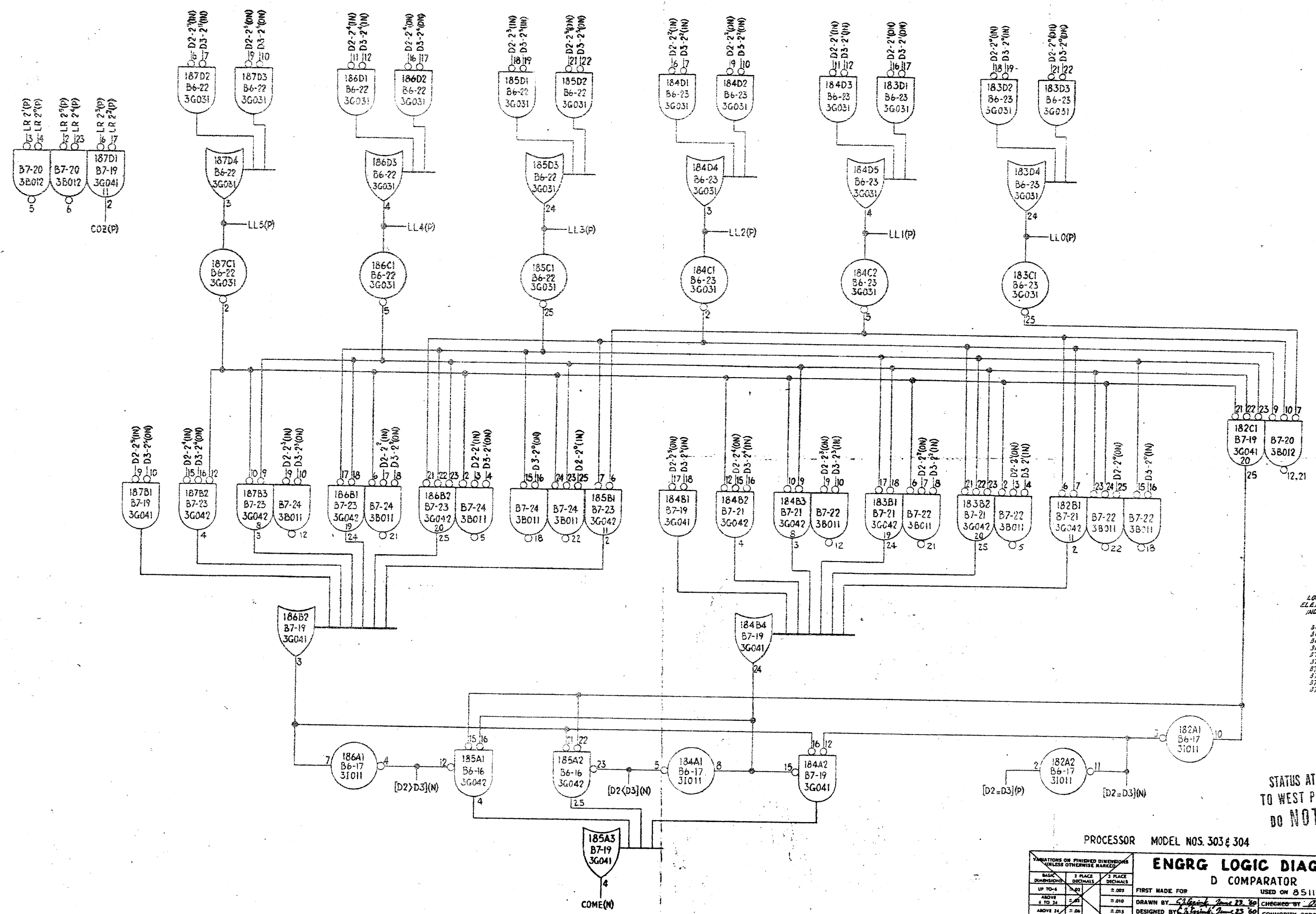
ENGRG LOGIC DIAGRAM			
NR REGISTER AND PARITY CHECKER			
DATE	BY	CHECKED BY	USED ON
1/18/54	W. J. ...	W. J.
DESIGNED BY	W. J. ...	COMMODITY CODE	
RADIO CORPORATION OF AMERICA		CAMDEN N.J.	

8617016

8617016

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
APPROVED	1
APPROVED	2



LOGIC ELEMENT INDEX

86-16
86-17
86-22
86-23
87-19
87-20
87-21
87-22
87-23
87-24

STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

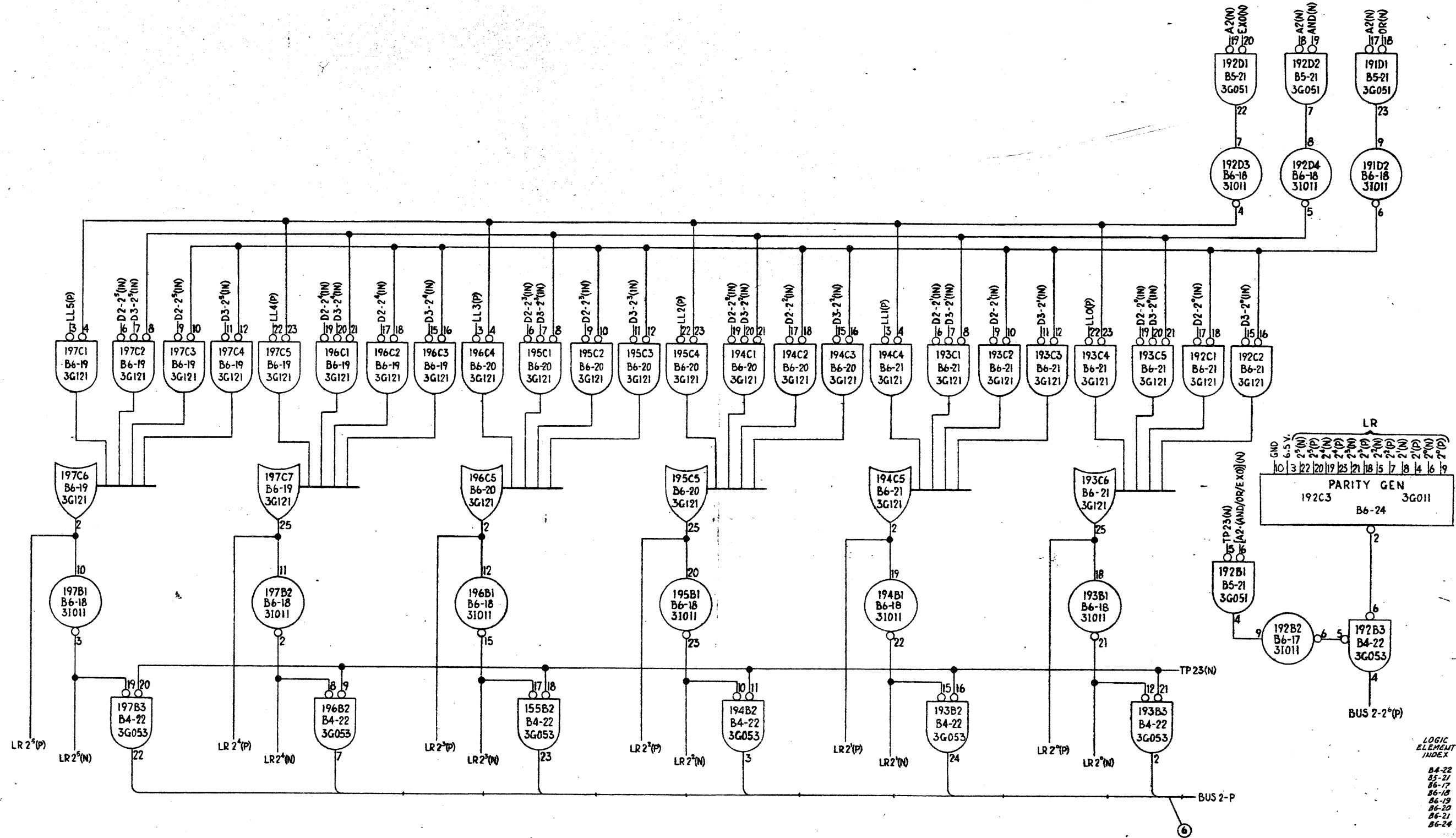
PROCESSOR MODEL NOS. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	3 PLACE DECIMALS	4 PLACE DECIMALS	D COMPARATOR	
UP TO .6	±.02	±.015	FIRST MADE FOR	USED ON 8511953
ABOVE .6 TO .24	±.03	±.02	DRAWN BY <i>Chapman</i>	CHECKED BY <i>Chapman</i>
ABOVE .24	±.04	±.025	DESIGNED BY <i>Chapman</i>	COMMODITY CODE
ANGULAR DIMENSIONS ±.1°			RADIO CORPORATION OF AMERICA	
SEE PART 2 SPEC FOR STOCK TOLERANCE			CAMDEN N.J.	
			D 8617018	

8617018

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	0
AP. NO.	
REVISED	
BY	
DATE	
APPROVED	
BY	
DATE	
NOVEMBER 4, 1961	



LOGIC ELEMENT INDEX

B4-22
B5-21
B6-17
B6-18
B6-19
B6-20
B6-21
B6-24

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

PROCESSOR MODEL NOS. 303 & 304

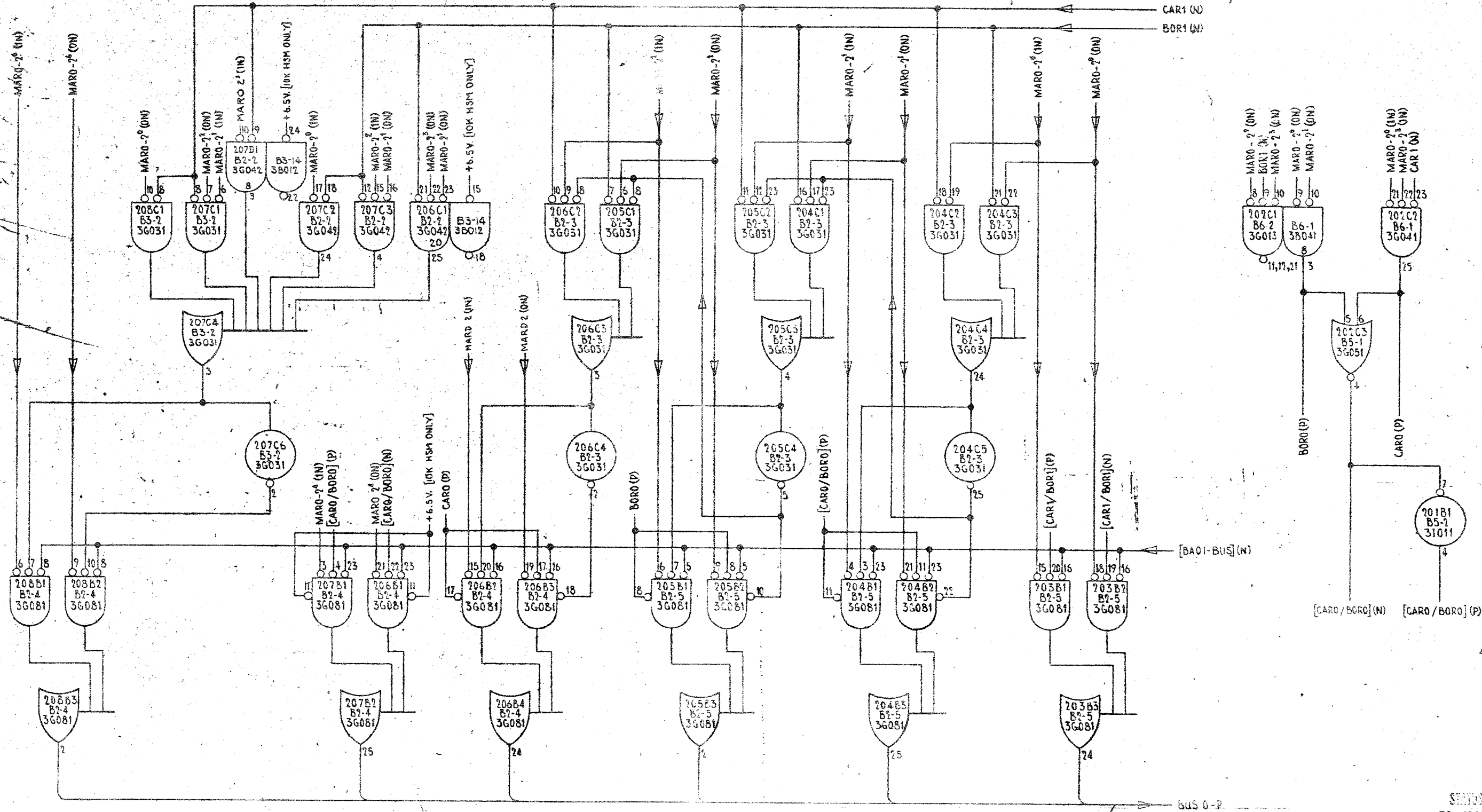
VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG LOGIC DIAGRAM	
BASIC DIMENSIONS	2 PLACE DECIMALS	LOGICAL AND/OR/EXO	
UP TO 6	±.02	FIRST MADE FOR	USED ON 8511953
6 TO 24	±.01	DRAWN BY	CHECKED BY
ABOVE 24	±.01	DESIGNED BY	COMMODITY CODE
SPECIAL DIMENSIONS	±.01	RADIO CORPORATION OF AMERICA	
SEE PURCH. SPEC. FOR STOCK TOLERANCE		CAMDEN N.J.	

8617019

D 8617019

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
REVISION	1
REVISION	2
APPROVED	MR
DATE	NOVEMBER 4, 1961
REVISION	3



- LOGIC ELEMENT INDEX
- B2-2
 - B2-3
 - B2-4
 - B2-5
 - B3-2
 - B3-14
 - B5-1
 - B5-2
 - B6-1
 - B6-2

STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

70

PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM
BUS ADDER CO

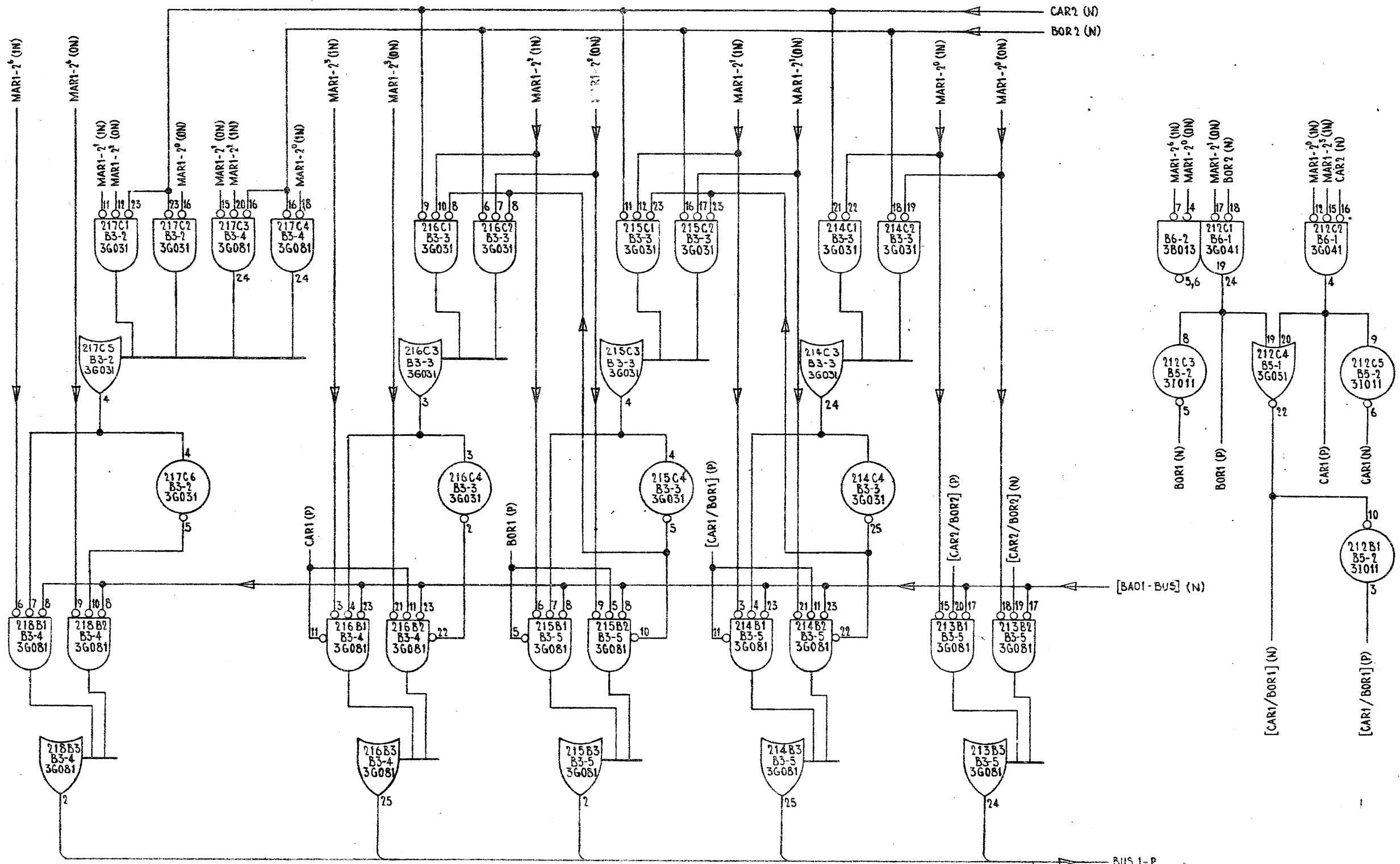
VARIATIONS OR FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASE DIMENSIONS	3 PLACE DECIMAL
UP TO 1"	2 PLACE DECIMAL
ABOVE 1" TO 24"	1 PLACE DECIMAL
ABOVE 24" TO 36"	0 PLACE DECIMAL

FIRST-MADE FOR	USED ON-8511953
DRAWN BY <i>R. W. ...</i>	CHECKED BY <i>J. ...</i>
DESIGNED BY <i>R. W. ...</i>	COMMUNITY CODE
RADIO CORPORATION OF AMERICA	
CAMDEN, N.J.	

8617020

D 8617020

REVISIONS	
NO. BY	DATE
1	1961
2	1961
3	1961
4	1961
5	1961



- LOGIC ELEMENT INDEX
- 83-2
 - 83-3
 - 83-4
 - 83-5
 - 85-1
 - 85-2
 - 86-1
 - 86-2

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE **71**

PROCESSOR MODEL NOS. 303/304

ENGRG LOGIC DIAGRAM
BUS ADDER C1

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 6	±.02	±.05
ABOVE 6 TO 24	±.03	±.06
ABOVE 24	±.04	±.08
REGULAR DIMENSIONS ±.015		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

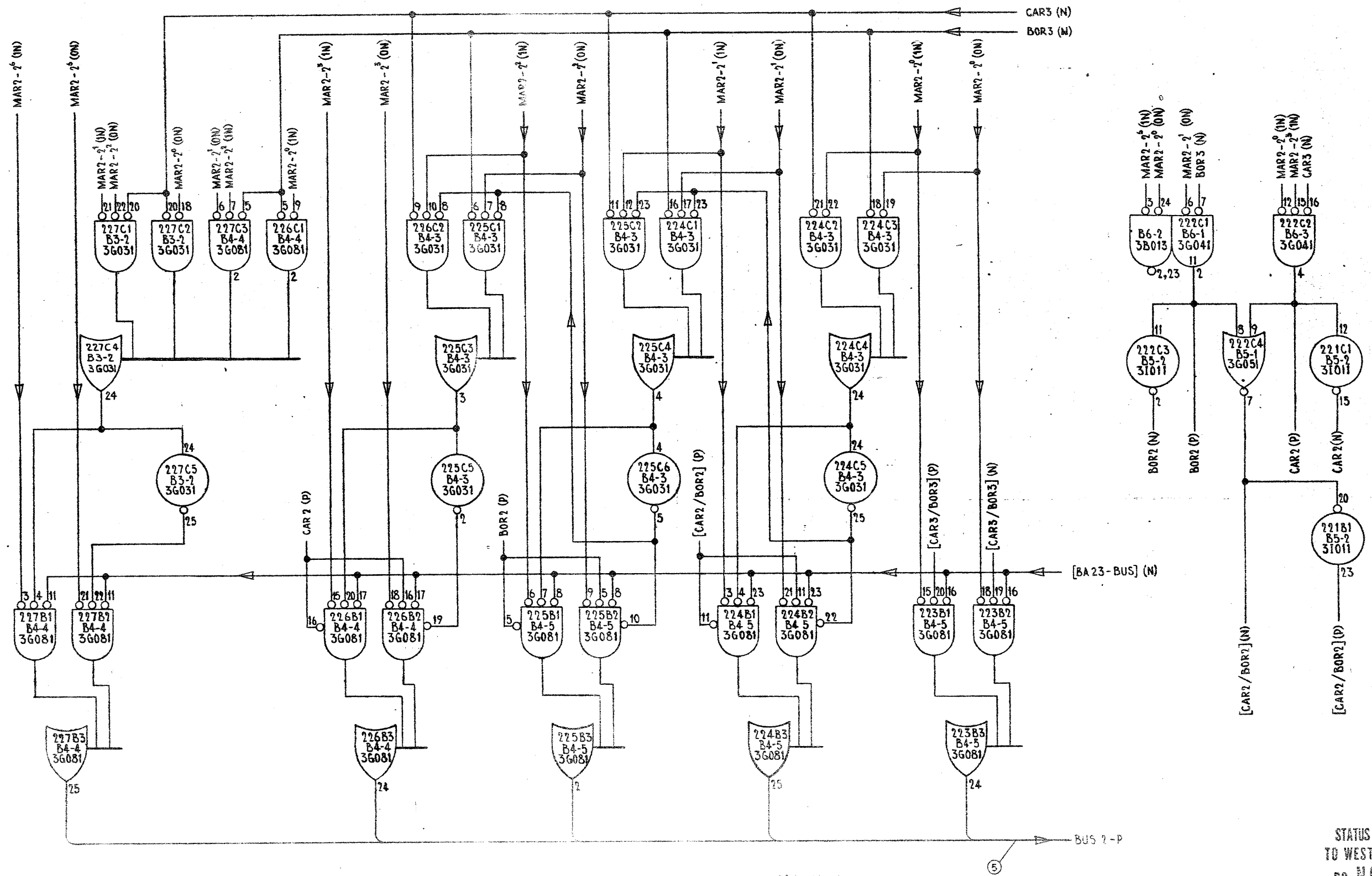
FIRST MADE FOR USED ON 8511953
DRAWN BY *R. Williams* Apr 9, 1960 CHECKED BY *D. S. J. 1960*
DESIGNED BY *R. Williams* Apr 9, 1960 COMMODITY CODE
RADIO CORPORATION OF AMERICA
CAMDEN, N. J.

8617021

D 8617021

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY	M. J. [Signature]
AP. NO.	0
REVISED	
11/23/56	
APPROVED BY	
[Signature]	
NOVEMBER 4, 1961	



LOGIC ELEMENT INDEX
 B3-2
 B4-3
 B4-4
 B4-5
 B5-1
 B5-2
 B6-1
 B6-2
 B6-3

STATUS AT TRANSFER
 TO WEST PALM BEACH.
 DO NOT CHANGE

72

PROCESSOR MODEL NOS. 3031304

ENGRG LOGIC DIAGRAM
BUS ADDER C2

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
BASIC DIMENSIONS	±.005
UP TO 4	±.002
4 TO 24	±.010
ABOVE 24	±.015
ANGULAR DIMENSIONS	±.005
SEE PURCH. SPEC. FOR STOCK TOLERANCES	

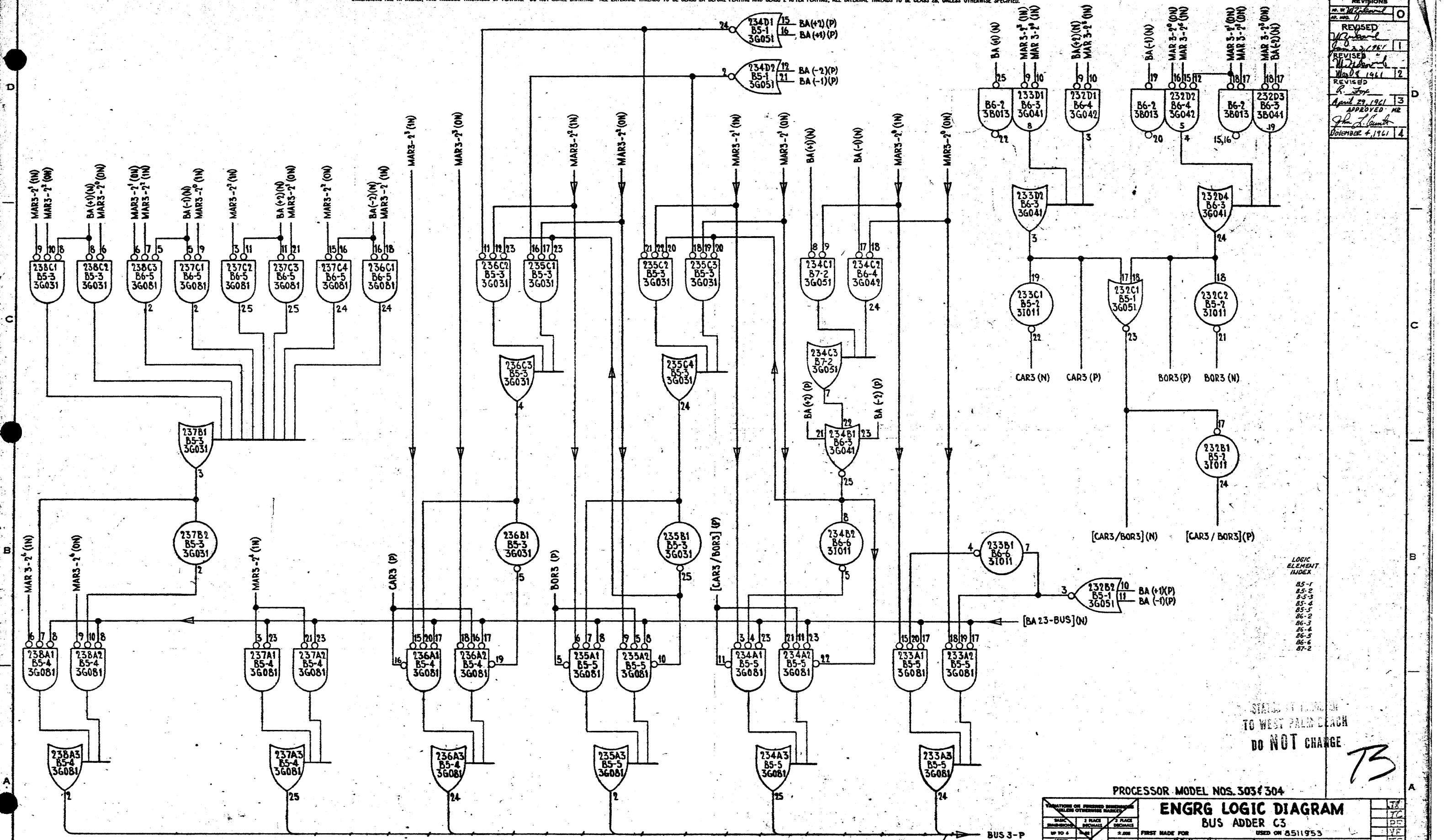
FIRST MADE FOR	USED ON 8511953
DRAWN BY [Signature]	CHECKED BY [Signature]
DESIGNED BY [Signature]	COMMODITY CODE
RADIO CORPORATION OF AMERICA	
CAMDEN, N.J.	

8617022

D 8617022

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2A, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
REVISED	1
REVISED	2
REVISED	3
APPROVED	4



LOGIC ELEMENT INDEX

B5-1
B5-2
B5-3
B5-4
B5-5
B6-2
B6-3
B6-4
B6-5
B6-6
B7-2

STATUS OF DRAWING
TO WEST PALM BEACH
DO NOT CHANGE

73

PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM
BUS ADDER C3

REVISIONS	DATE	BY	CHKD
1			
2			
3			
4			

FIRST MADE FOR: USED ON 8511953

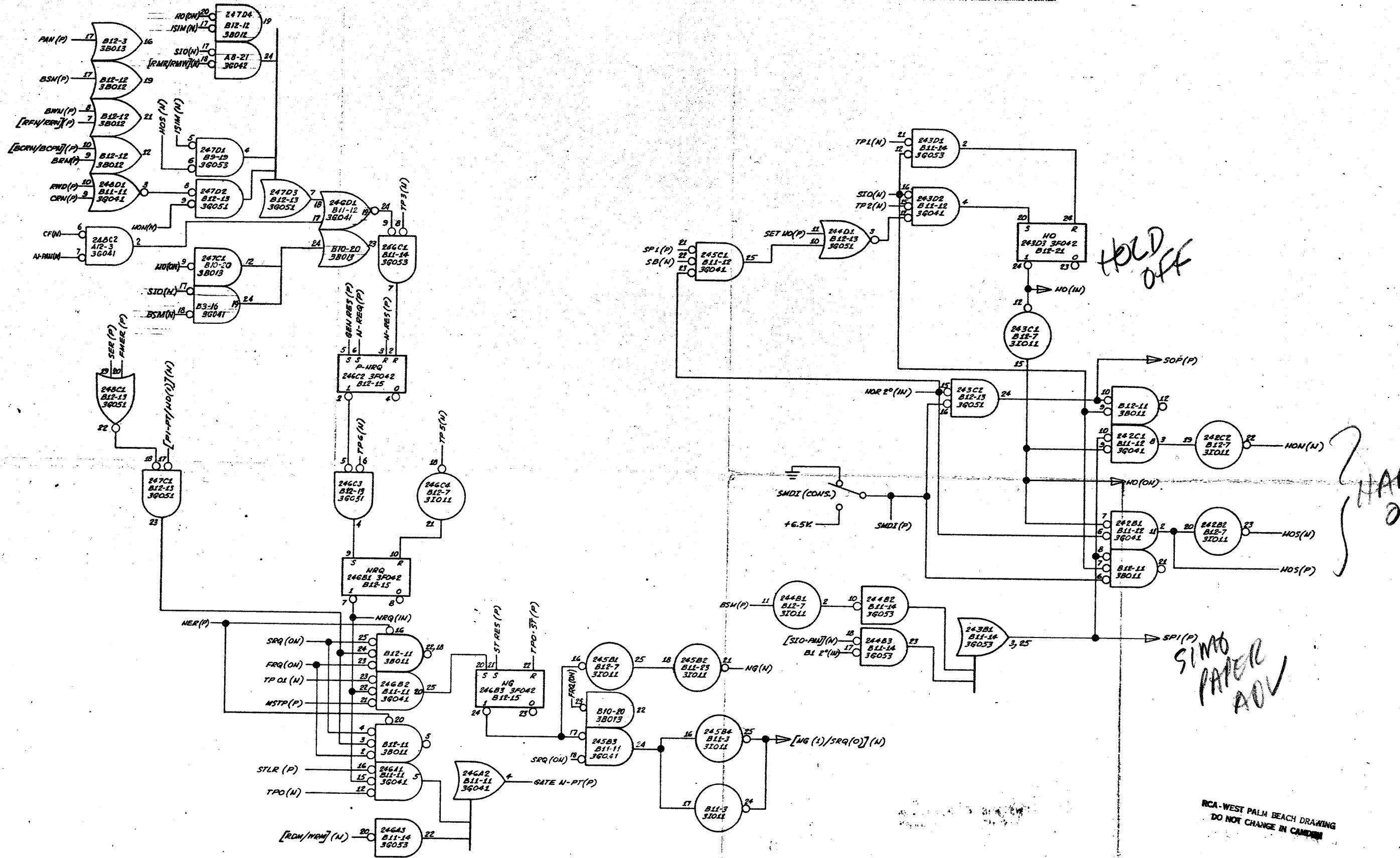
DRAWN BY: DESIGNED BY: CHECKED BY: COMMODITY CODE:

RADIO CORPORATION OF AMERICA
CAMDEN, N. J.

8617023

8617023

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	1
AP. BY	J. L. GARDNER
DATE	1/1/62
REVISED & APPROVED	J. L. GARDNER
REVISED PER ECN 1704	J. L. GARDNER
6 Jan 1962	2
REV 1 & 2 ISSUED AT SAME TIME	

RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMBIO

76
PRELIM.

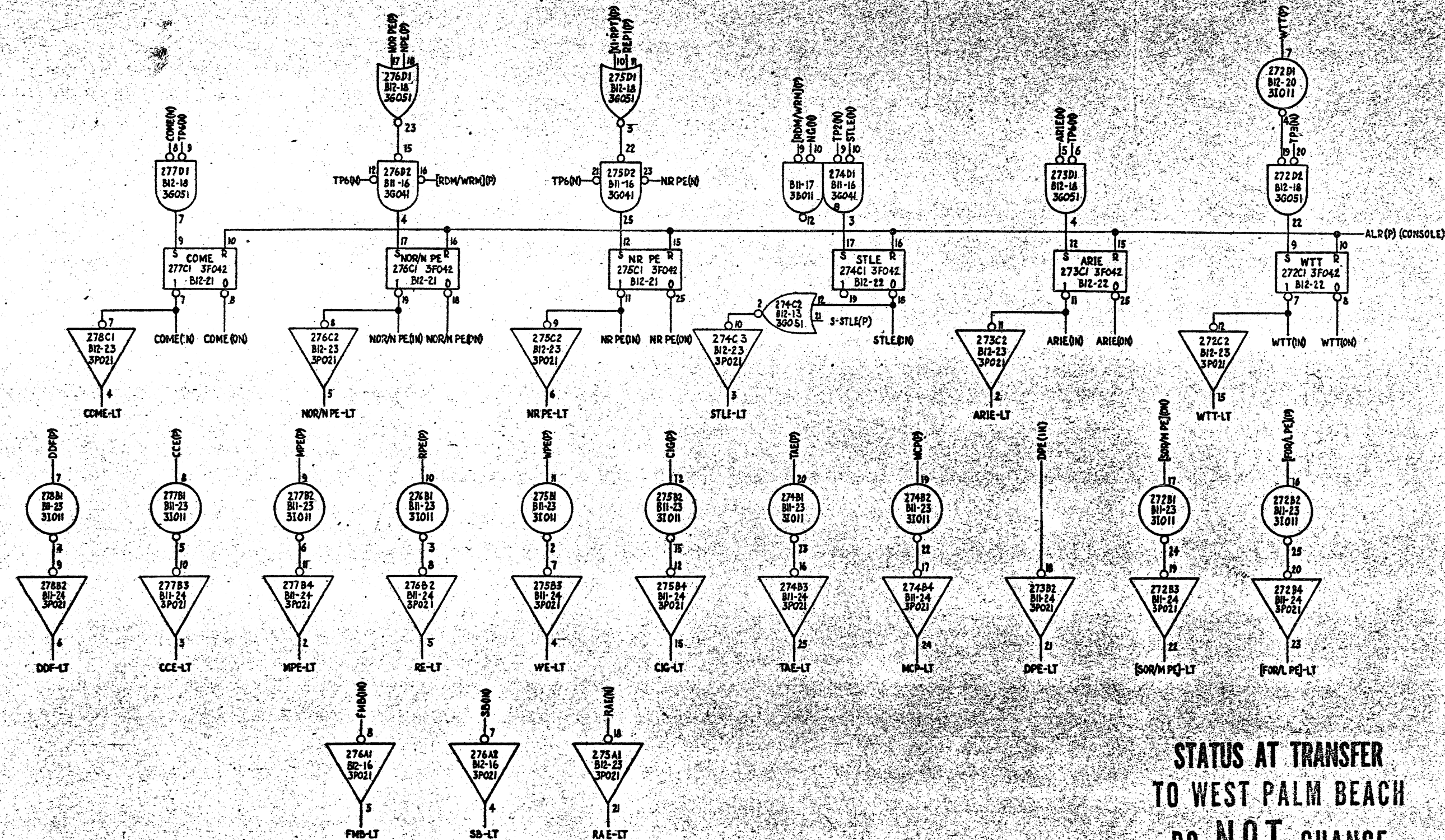
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

3506024

ENGINEERING LOGIC DIAGRAM HOLD-OFF, PRIORITY REQUEST LOGIC PROCESSOR MODEL NOS. 303A & 304A FIRST MADE FOR AIE-43007 USED ON 8511953			TC
DRAWN BY: J. L. Gardner			JB
CHECKED BY:			PF
DESIGNED BY:			JF
COMMODITY CODE:			VF
RADIO CORPORATION OF AMERICA PALM BEACH GARDNER CENTER CODE IDENT NO. 49471			W04
SIZE: D			FRL
3506024			

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
REVISED	1
REVISED	2



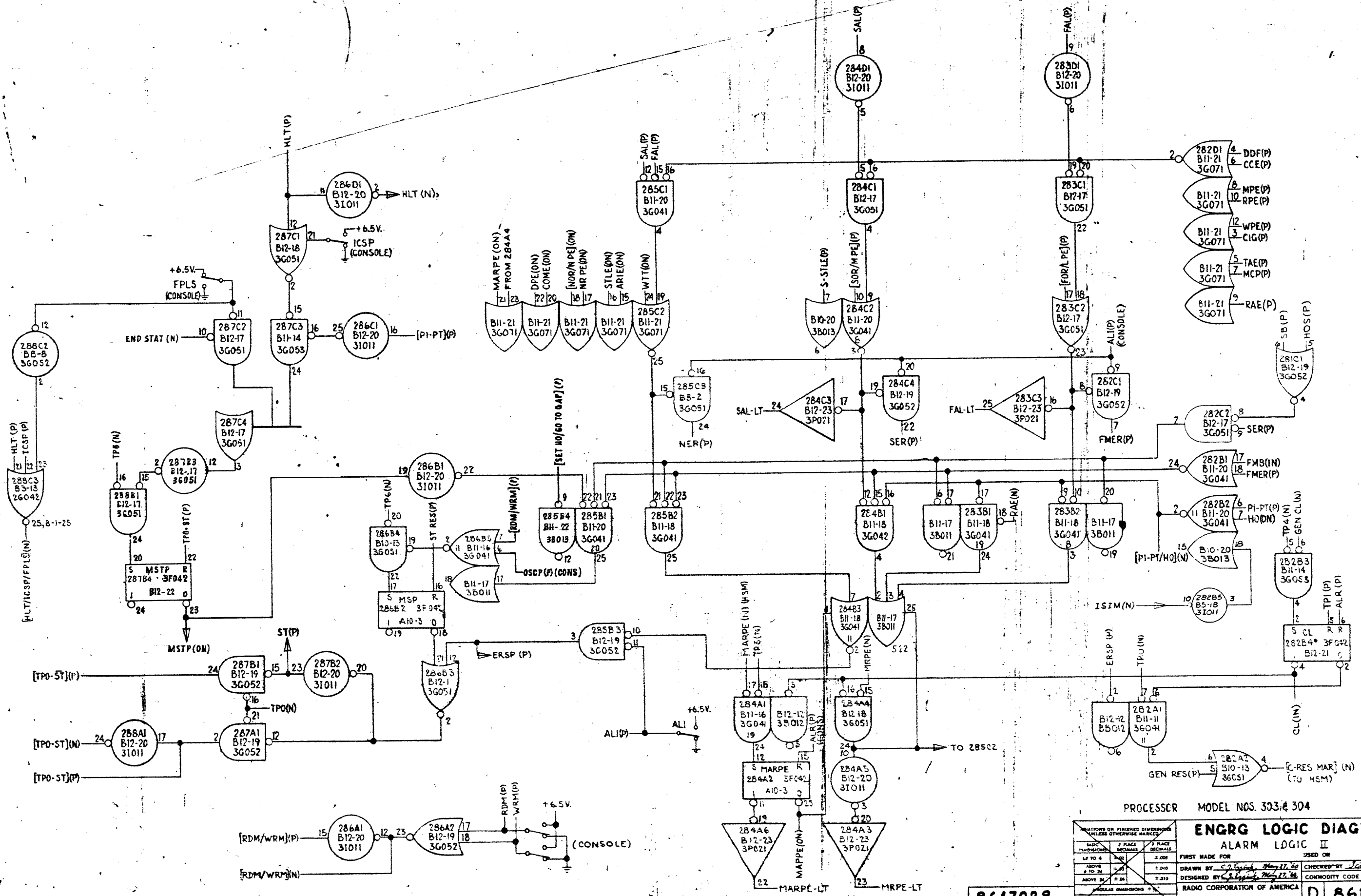
**STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE**

77

PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM		ALARM LOGIC I	
DATE	11/26/54	FIRST MADE FOR	USED ON
DESIGNED BY	W. J. ...	DESIGNED BY	W. J. ...
CHECKED BY	...	CHECKED BY	...
APPROVED BY	...	APPROVED BY	...
RADIO CORPORATION OF AMERICA		CAMDEN N.J.	
8617027		8617027	

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REVISIONS	
0	REVISED
1	REVISED
2	REVISED
3	REVISED
4	REVISED
5	REVISED
6	REVISED
7	REVISED

DELETED ELEMENTS
288D1, 288D2, 288D3, 288D4
288D1 PIN 13 WAS TO SIGNAL *MSTP*
ADDED ELEMENTS 288D5, 288D6, 288D7, 288D8
ADDED SIGNAL AT 288D2 PIN 13
ECN Y704
R. J. ...
Date: 2-2-63

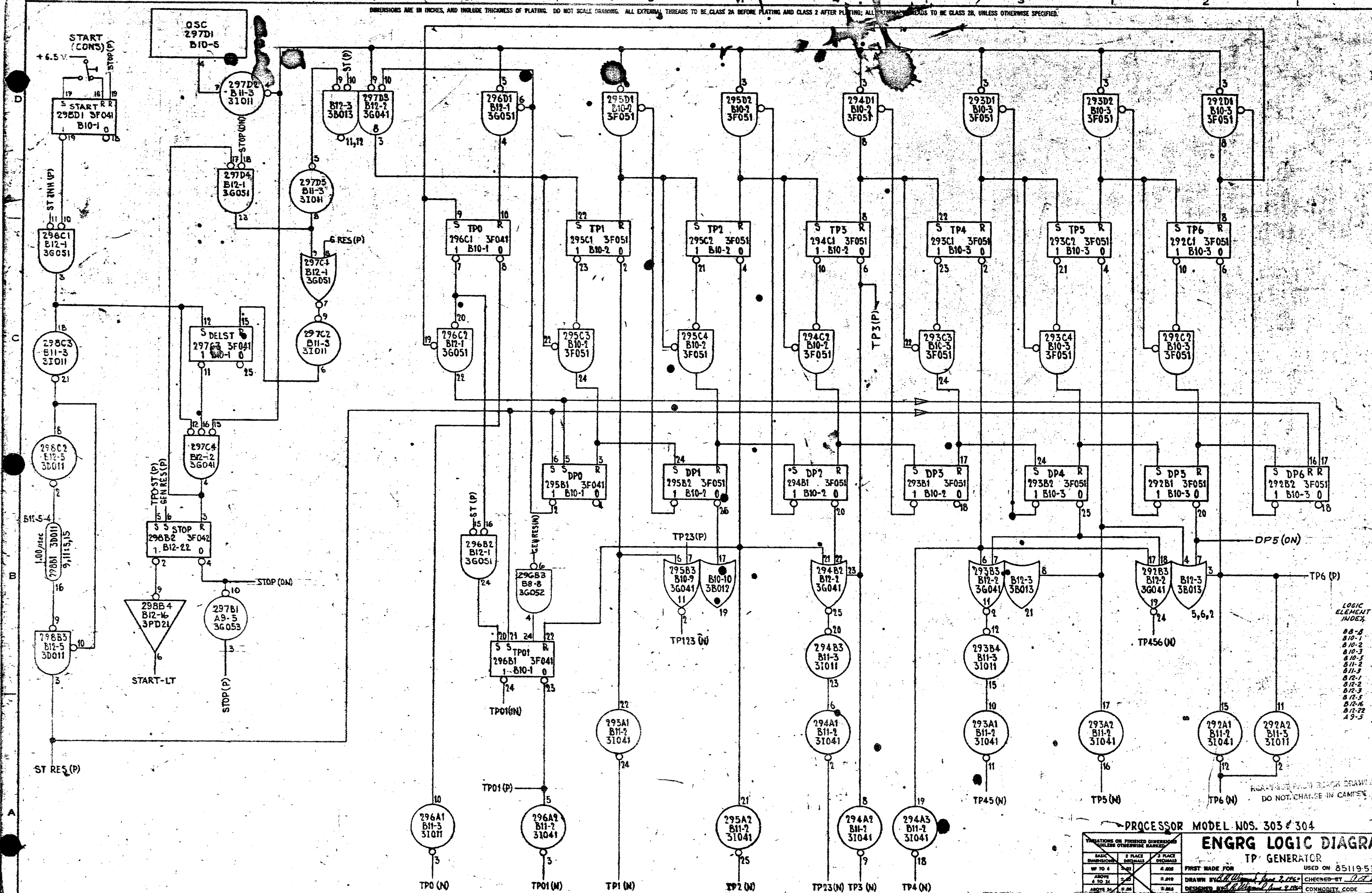
PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM ALARM LOGIC II

DATE	2-2-63	CHECKED BY	J. J. ...
DRAWN BY	C. J. ...	DESIGNED BY	C. J. ...
RADIO CORPORATION OF AMERICA		CAMDEN N.J.	

8617028

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



TO GENERATE TP45 24
 TAKE OFF B12-3-3
 FOR 1/0 SLOW GATES FA

79

LOGIC ELEMENT INDEX

B8-8
B10-1
B10-2
B10-3
B10-5
B11-2
B11-3
B12-1
B12-2
B12-3
B12-5
B12-6
B12-22
A9-3

PROCESSOR MODEL NOS. 303 & 304

ENGRG LOGIC DIAGRAM

TP GENERATOR

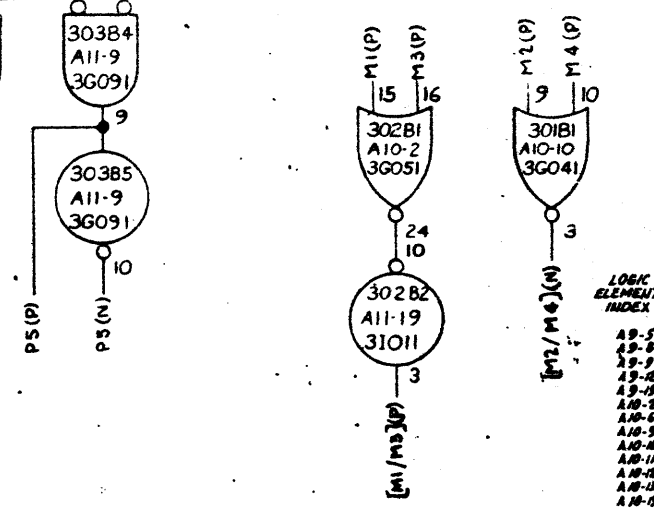
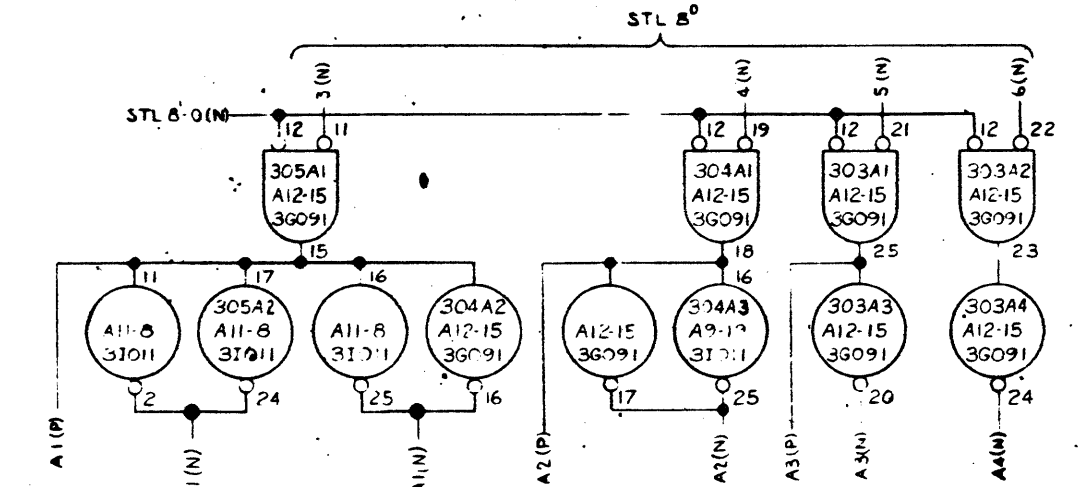
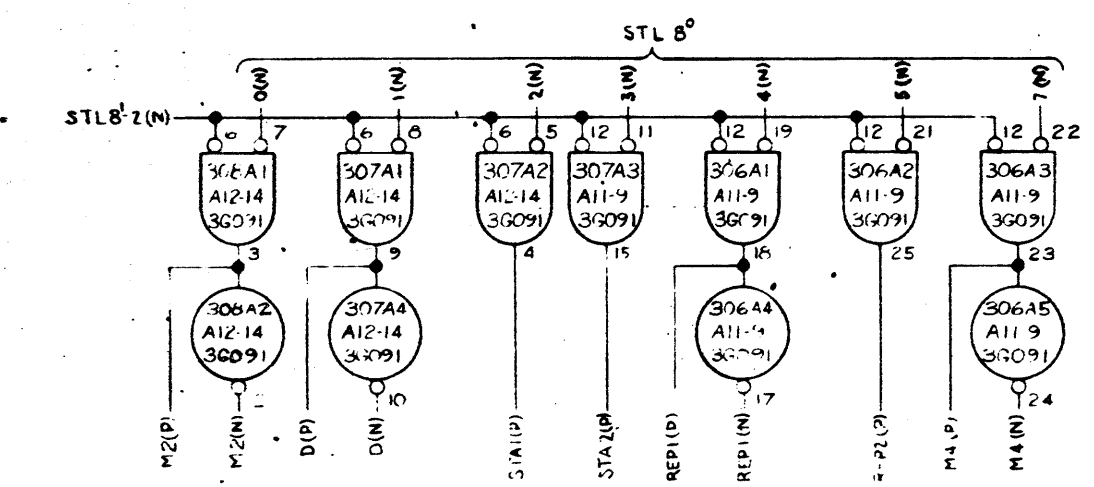
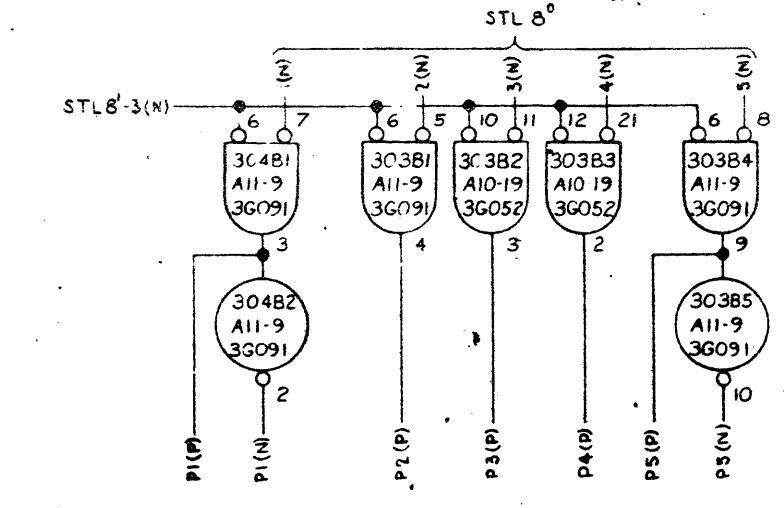
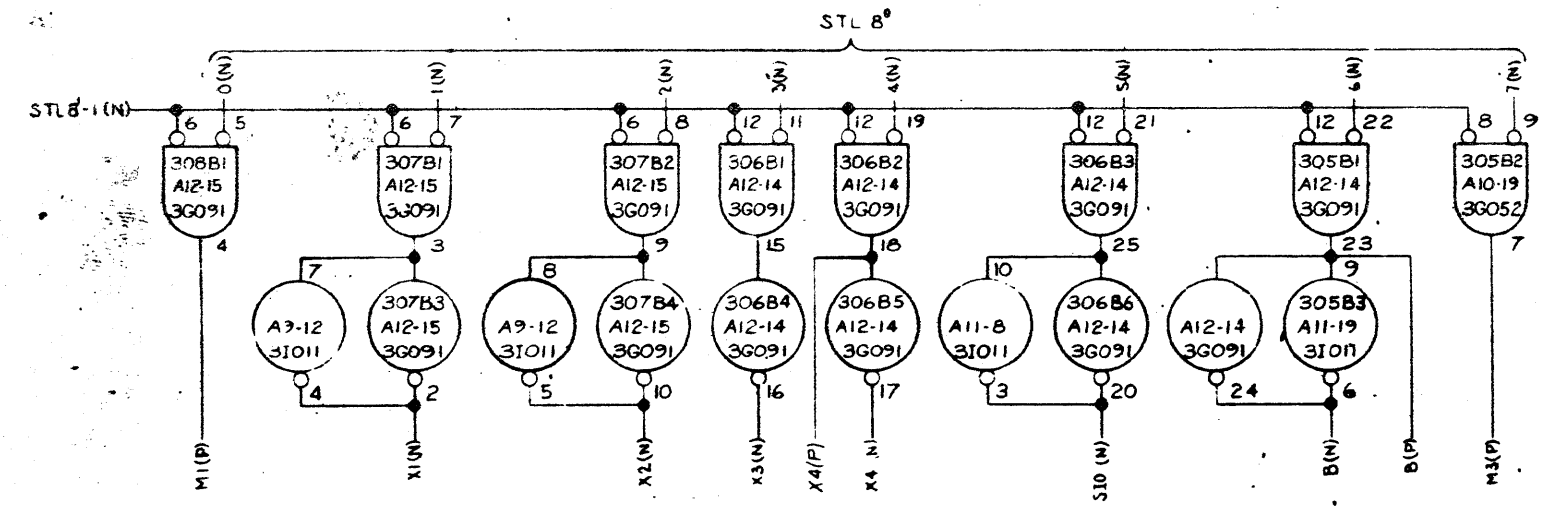
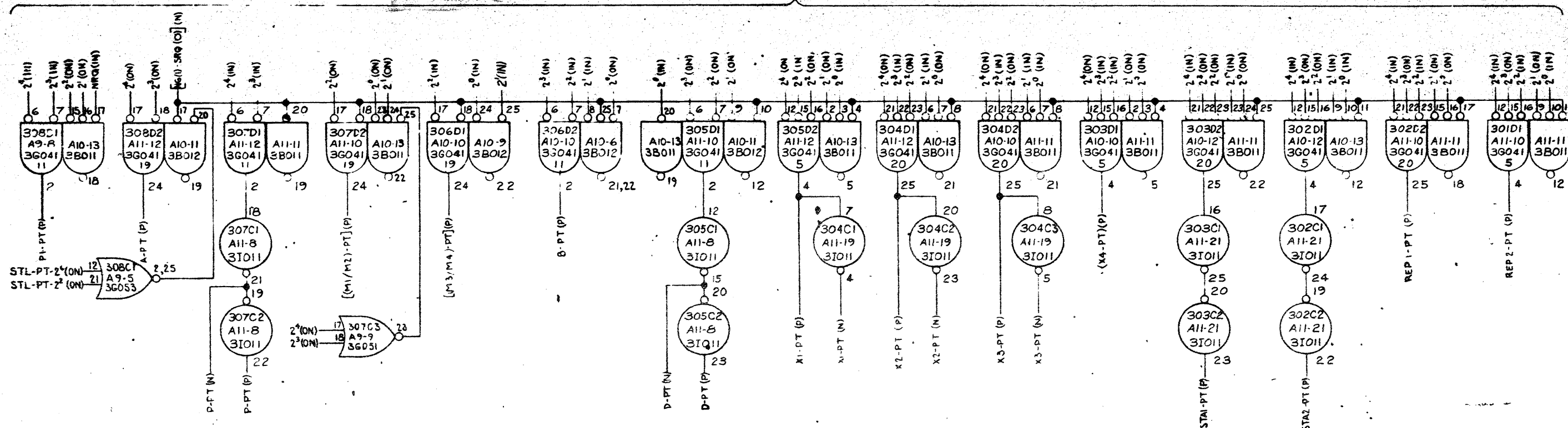
FIRST MADE FOR USED ON 8511953

DRAWN BY [Signature] CHECKED BY [Signature]

DESIGNED BY [Signature] COMMODITY CODE

RADIO CORPORATION OF AMERICA
 CAMDEN, N.J.

8617029



- LOGIC ELEMENT INDEX
- A9-5
 - A9-8
 - A9-9
 - A9-12
 - A9-19
 - A10-2
 - A10-6
 - A10-9
 - A10-11
 - A10-12
 - A10-13
 - A10-14
 - A10-15
 - A11-8
 - A11-9
 - A11-10
 - A11-11
 - A11-12
 - A11-13
 - A11-14
 - A11-15
 - A12-14
 - A12-15

REVISED
 12-2-54
 REVISED
 R. J. H.
 April 23, 1960
 APPROVED
 [Signature]
 APPROVED
 [Signature]
 ECN 1704 ON
 [Signature]
 13-4

RCA-WEST PALM BEACH DRAWING
 DO NOT CHANGE IN CAMDEN

PROCESSOR MODEL NOS. 303 & 304

ENGRG. LOGIC DIAGRAM		STL GENERATION I	
DATE	DESIGNED BY	CHECKED BY	COMMODITY CODE
UP TO 4	2.01	2.01	
4 TO 11	2.02	2.02	
12 TO 24	2.03	2.03	
25 TO 48	2.04	2.04	
49 TO 72	2.05	2.05	
73 TO 96	2.06	2.06	
97 TO 120	2.07	2.07	
121 TO 144	2.08	2.08	
145 TO 168	2.09	2.09	
169 TO 192	2.10	2.10	
193 TO 216	2.11	2.11	
217 TO 240	2.12	2.12	
241 TO 264	2.13	2.13	
265 TO 288	2.14	2.14	
289 TO 312	2.15	2.15	
313 TO 336	2.16	2.16	
337 TO 360	2.17	2.17	
361 TO 384	2.18	2.18	
385 TO 408	2.19	2.19	
409 TO 432	2.20	2.20	
433 TO 456	2.21	2.21	
457 TO 480	2.22	2.22	
481 TO 504	2.23	2.23	
505 TO 528	2.24	2.24	
529 TO 552	2.25	2.25	
553 TO 576	2.26	2.26	
577 TO 600	2.27	2.27	
601 TO 624	2.28	2.28	
625 TO 648	2.29	2.29	
649 TO 672	2.30	2.30	
673 TO 696	2.31	2.31	
697 TO 720	2.32	2.32	
721 TO 744	2.33	2.33	
745 TO 768	2.34	2.34	
769 TO 792	2.35	2.35	
793 TO 816	2.36	2.36	
817 TO 840	2.37	2.37	
841 TO 864	2.38	2.38	
865 TO 888	2.39	2.39	
889 TO 912	2.40	2.40	
913 TO 936	2.41	2.41	
937 TO 960	2.42	2.42	
961 TO 984	2.43	2.43	
985 TO 1008	2.44	2.44	

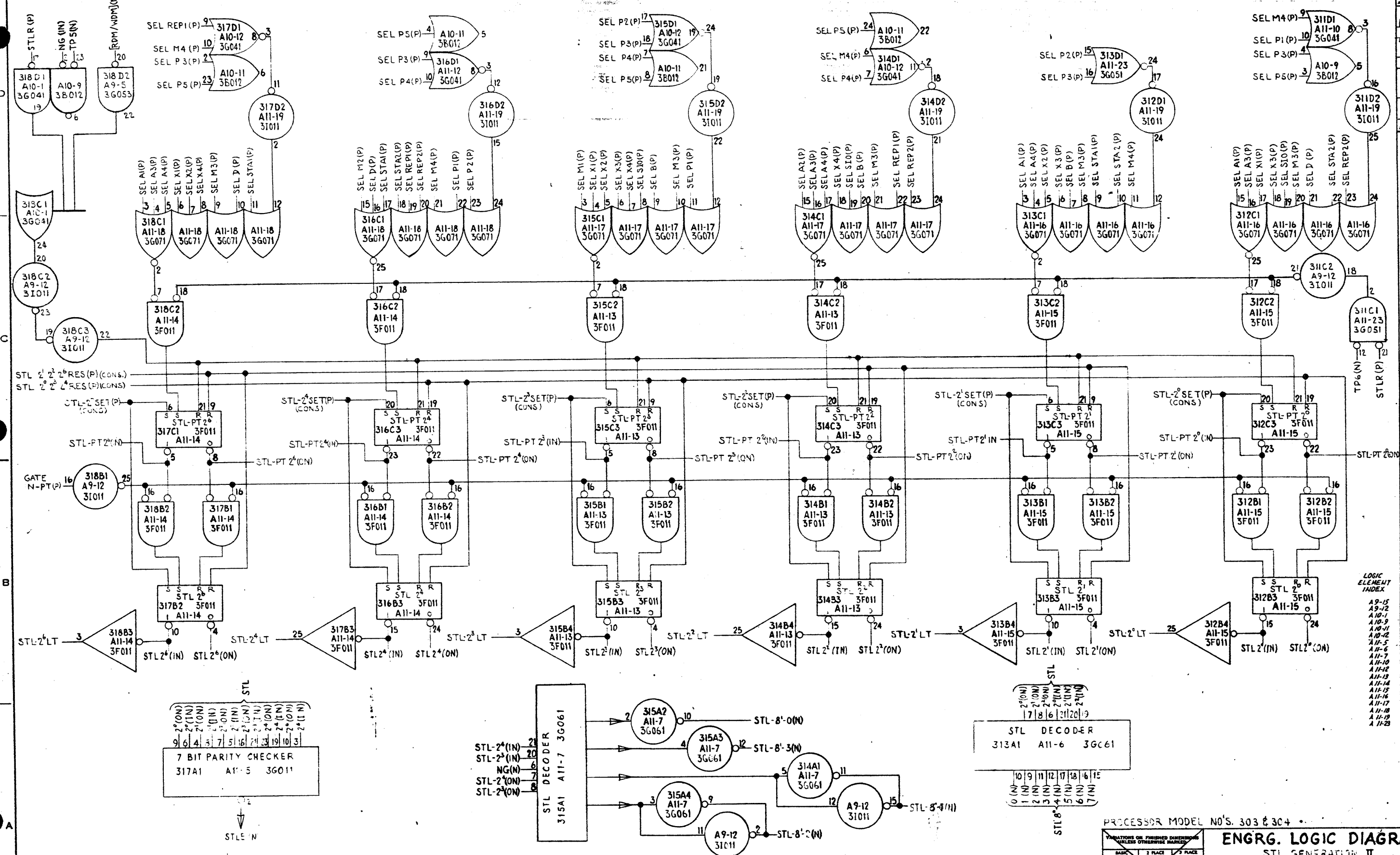
8617030

8617030

80

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO.	DESCRIPTION
1	REVISED 1/23/61 1/23/61
2	REVISED 1/23/61 1/23/61
3	REVISED 1/23/61 1/23/61
4	APPROVED NR 1/23/61 1/23/61



LOGIC ELEMENT INDEX

A9-15
A9-12
A10-1
A10-9
A10-11
A10-12
A10-5
A11-6
A11-7
A11-10
A11-12
A11-13
A11-14
A11-15
A11-16
A11-17
A11-18
A11-19
A11-23

81

PROCESSOR MODEL NO'S. 303 & 304

ENGRG. LOGIC DIAGRAM
STL GENERATION II

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	3 PLACES DECIMALS	3 PLACES DECIMALS
BASIC DIMENSIONS	UP TO 4	±.003
ABOVE 4 TO 24	±.010	FIRST MADE FOR
ABOVE 24	±.015	DESIGNED BY
REGULAR DIMENSIONS ±.015	SEE PENCIL SPEC. FOR STOCK TOLERANCES	CHECKED BY
		COMMODITY CODE

RADIO CORPORATION OF AMERICA
CAMDEN, N. J.

8617031

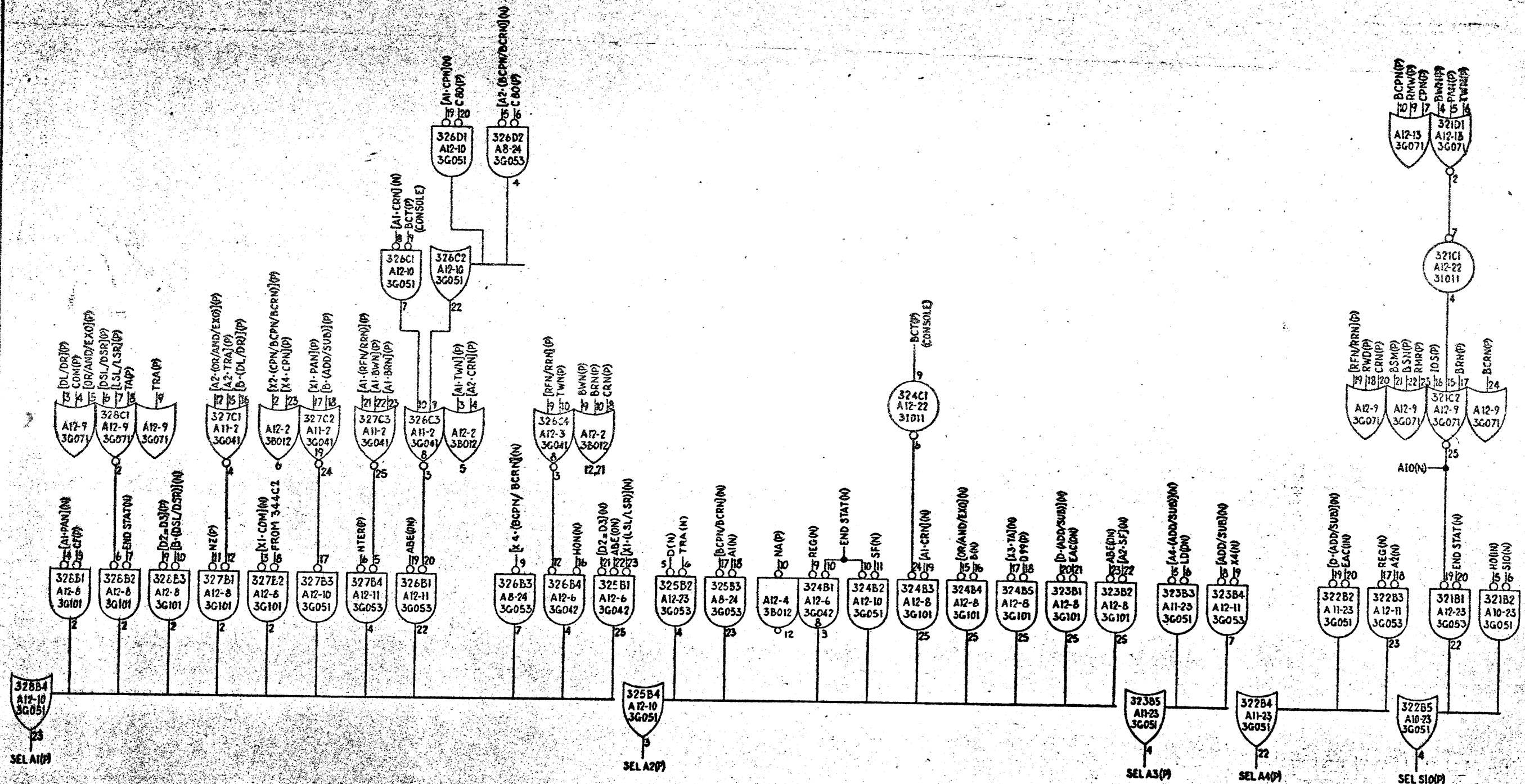
8511953

NOV 25 1961

D 8617031

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISED
14 26
REVISED
R. J. J.
April 29, 1961
REVISED
R. J. J.
30 June 1961



STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

82

PROCESSOR MODEL NOS. 303 & 304

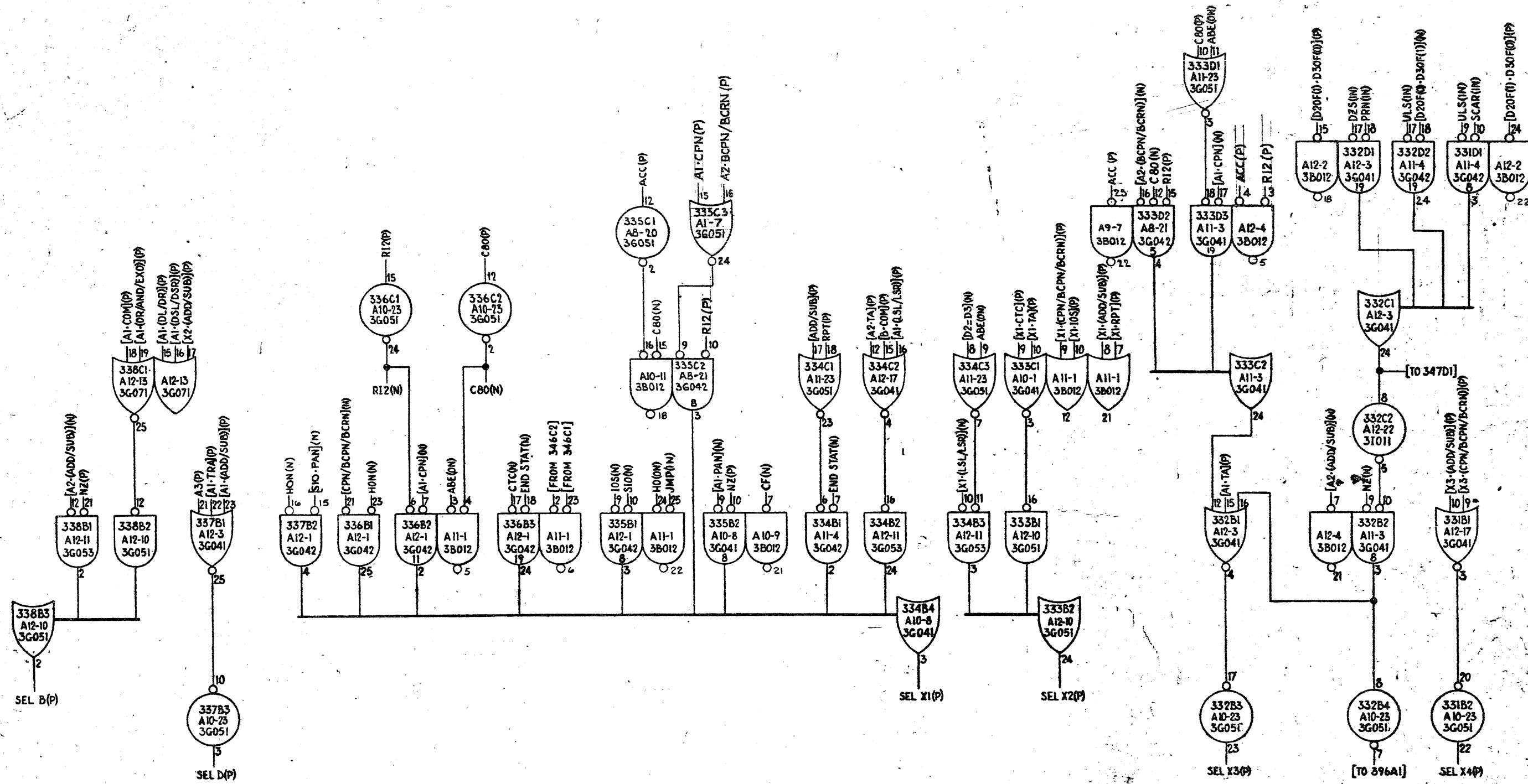
DIMENSIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE SPECIFIED		ENGRG LOGIC DIAGRAM	
1/16	0.0625	STATUS LEVEL SELECTION I	
1/8	0.125	FIRST MADE FOR USED ON	
3/16	0.1875	DRAWN BY <i>C. J. J.</i> CHECKED BY <i>Oct 25 1961</i>	
1/4	0.25	DESIGNED BY <i>C. J. J.</i> COMMODITY CODE	
5/16	0.3125	RADIO CORPORATION OF AMERICA	
3/4	0.375	CAMDEN, N.J.	
1	0.5	CODE IDENT NO. 49671	
1 1/8	0.625	8617032	
1 1/4	0.75	8617032	
1 3/8	0.875		
1 1/2	1.0		
1 5/8	1.125		
1 3/4	1.25		
1 7/8	1.375		
2	1.5		
2 1/8	1.625		
2 1/4	1.75		
2 3/8	1.875		
2 1/2	2.0		
2 5/8	2.125		
2 3/4	2.25		
2 7/8	2.375		
3	2.5		
3 1/8	2.625		
3 1/4	2.75		
3 3/8	2.875		
3 1/2	3.0		
3 5/8	3.125		
3 3/4	3.25		
3 7/8	3.375		
4	3.5		
4 1/8	3.625		
4 1/4	3.75		
4 3/8	3.875		
4 1/2	4.0		
4 5/8	4.125		
4 3/4	4.25		
4 7/8	4.375		
5	4.5		
5 1/8	4.625		
5 1/4	4.75		
5 3/8	4.875		
5 1/2	5.0		
5 5/8	5.125		
5 3/4	5.25		
5 7/8	5.375		
6	5.5		
6 1/8	5.625		
6 1/4	5.75		
6 3/8	5.875		
6 1/2	6.0		
6 5/8	6.125		
6 3/4	6.25		
6 7/8	6.375		
7	6.5		
7 1/8	6.625		
7 1/4	6.75		
7 3/8	6.875		
7 1/2	7.0		
7 5/8	7.125		
7 3/4	7.25		
7 7/8	7.375		
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8 1/8	7.625		
8 1/4	7.75		
8 3/8	7.875		
8 1/2	8.0		
8 5/8	8.125		
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11 1/8	10.625		
11 1/4	10.75		
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11 5/8	11.125		
11 3/4	11.25		
11 7/8	11.375		
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12 3/8	11.875		
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12 5/8	12.125		
12 3/4	12.25		
12 7/8	12.375		
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13 1/8	12.625		
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13 3/8	12.875		
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13 5/8	13.125		
13 3/4	13.25		
13 7/8	13.375		
14	13.5		
14 1/8	13.625		
14 1/4	13.75		
14 3/8	13.875		
14 1/2	14.0		
14 5/8	14.125		
14 3/4	14.25		
14 7/8	14.375		
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15 1/8	14.625		
15 1/4	14.75		
15 3/8	14.875		
15 1/2	15.0		
15 5/8	15.125		
15 3/4	15.25		
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16 3/8	15.875		
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16 5/8	16.125		
16 3/4	16.25		
16 7/8	16.375		
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17 1/8	16.625		
17 1/4	16.75		
17 3/8	16.875		
17 1/2	17.0		
17 5/8	17.125		
17 3/4	17.25		
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18 5/8	18.125		
18 3/4	18.25		
18 7/8	18.375		
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19 1/8	18.625		
19 1/4	18.75		
19 3/8	18.875		
19 1/2	19.0		
19 5/8	19.125		
19 3/4	19.25		
19 7/8	19.375		
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20 1/8	19.625		
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20 3/8	19.875		
20 1/2	20.0		
20 5/8	20.125		
20 3/4	20.25		
20 7/8	20.375		
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21 1/8	20.625		
21 1/4	20.75		
21 3/8	20.875		
21 1/2	21.0		
21 5/8	21.125		
21 3/4	21.25		
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22 3/8	21.875		
22 1/2	22.0		
22 5/8	22.125		
22 3/4	22.25		
22 7/8	22.375		
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23 1/8	22.625		
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23 1/2	23.0		
23 5/8	23.125		
23 3/4	23.25		
23 7/8	23.375		
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24 1/4	23.75		
24 3/8	23.875		
24 1/2	24.0		
24 5/8	24.125		
24 3/4	24.25		
24 7/8	24.375		
25	24.5		
25 1/8	24.625		
25 1/4	24.75		
25 3/8	24.875		
25 1/2	25.0		
25 5/8	25.125		
25 3/4	25.25		
25 7/8	25.375		
26	25.5		
26 1/8	25.625		
26 1/4	25.75		
26 3/8	25.875		
26 1/2	26.0		
26 5/8	26.125		
26 3/4	26.25		
26 7/8	26.375		
27	26.5		
27 1/8	26.625		
27 1/4	26.75		
27 3/8	26.875		
27 1/2	27.0		
27 5/8	27.125		
27 3/4	27.25		
27 7/8	27.375		
28	27.5		
28 1/8	27.625		
28 1/4	27.75		
28 3/8	27.875		
28 1/2	28.0		
28 5/8	28.125		
28 3/4	28.25		
28 7/8	28.375		
29	28.5		
29 1/8	28.625		
29 1/4	28.75		
29 3/8	28.875		
29 1/2	29.0		
29 5/8	29.125		
29 3/4	29.25		
29 7/8	29.375		
30	29.5		

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8617032

8617032

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
REVISED	0
REVISED	1
REVISED	2
REVISED	3
REVISED	4
REVISED	5

RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

PROCESSOR MODEL NOS. 3034304

VARIATIONS OF DIMENSIONS UNLESS OTHERWISE SHOWN		ENGRG LOGIC DIAGRAM	
STATUS LEVEL SELECTION II		FIRST MADE FOR	
BASE DIMENSIONS	1 PLACE DECIMALS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	0.01	0.005	0.002
ABOVE 4 TO 24	0.02	0.01	0.005
ABOVE 24	0.05	0.02	0.01
MODULAR DIMENSIONS 0.1		RADIO CORPORATION OF AMERICA	
SEE PUNCH SPEC. FOR DIMENSIONS		CAMDEN N.J.	
CODE IDENT NO. 49657		CODE IDENT NO. 49657	

8617033

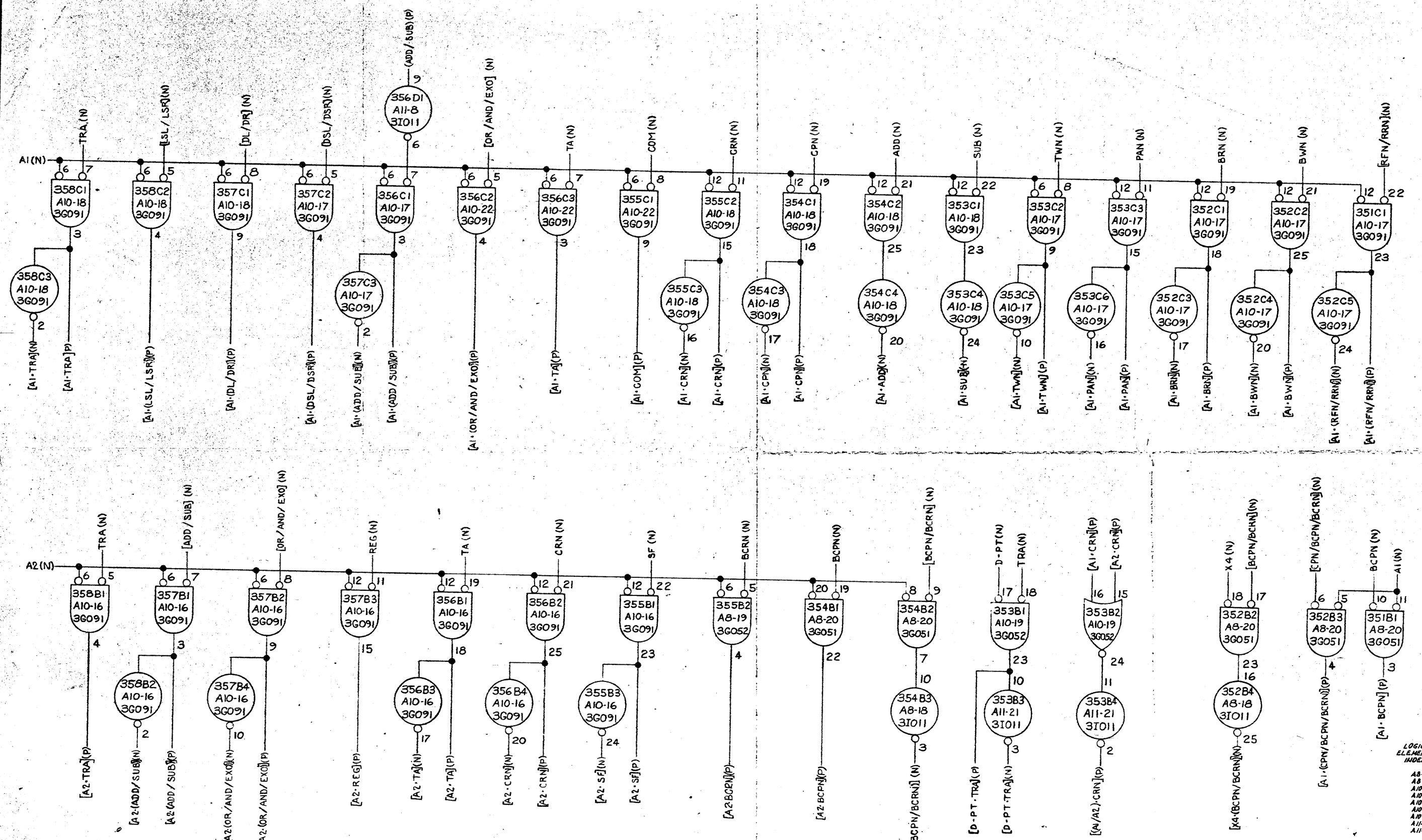
8617033

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83

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. OF REVISIONS	0
REVISED	
APPROVED	
DATE	11/23/51
APPROVED	
DATE	11/23/51
APPROVED	
DATE	11/23/51
APPROVED	
DATE	11/23/51



LOGIC ELEMENT INDEX

- A8-18
- A8-20
- A10-16
- A10-17
- A10-18
- A10-19
- A10-22
- A11-8
- A11-21

85

PROCESSOR MODEL NO. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS		UNLESS OTHERWISE SPECIFIED	
BASE DIMENSIONS	2 PLACE DECIMALS	2 PLACE DECIMALS	2 PLACE DECIMALS
UP TO 4	±.005	±.005	±.005
ABOVE 4 TO 24	±.010	±.010	±.010
ABOVE 24	±.015	±.015	±.015
ANGULAR DIMENSIONS ± 1'		SEE PART SPEC. FOR STOCK TOLERANCE	

ENGRG. LOGIC DIAGRAM		78
OP STL COMB. I		79
FIRST MADE FOR		PF
USED ON 8511953		VF
DRAWN BY		JF
CHECKED BY		WJ
DESIGNED BY		WJ
RADIO CORPORATION OF AMERICA		COMMODITY CODE
CAMDEN, N. J.		8617035

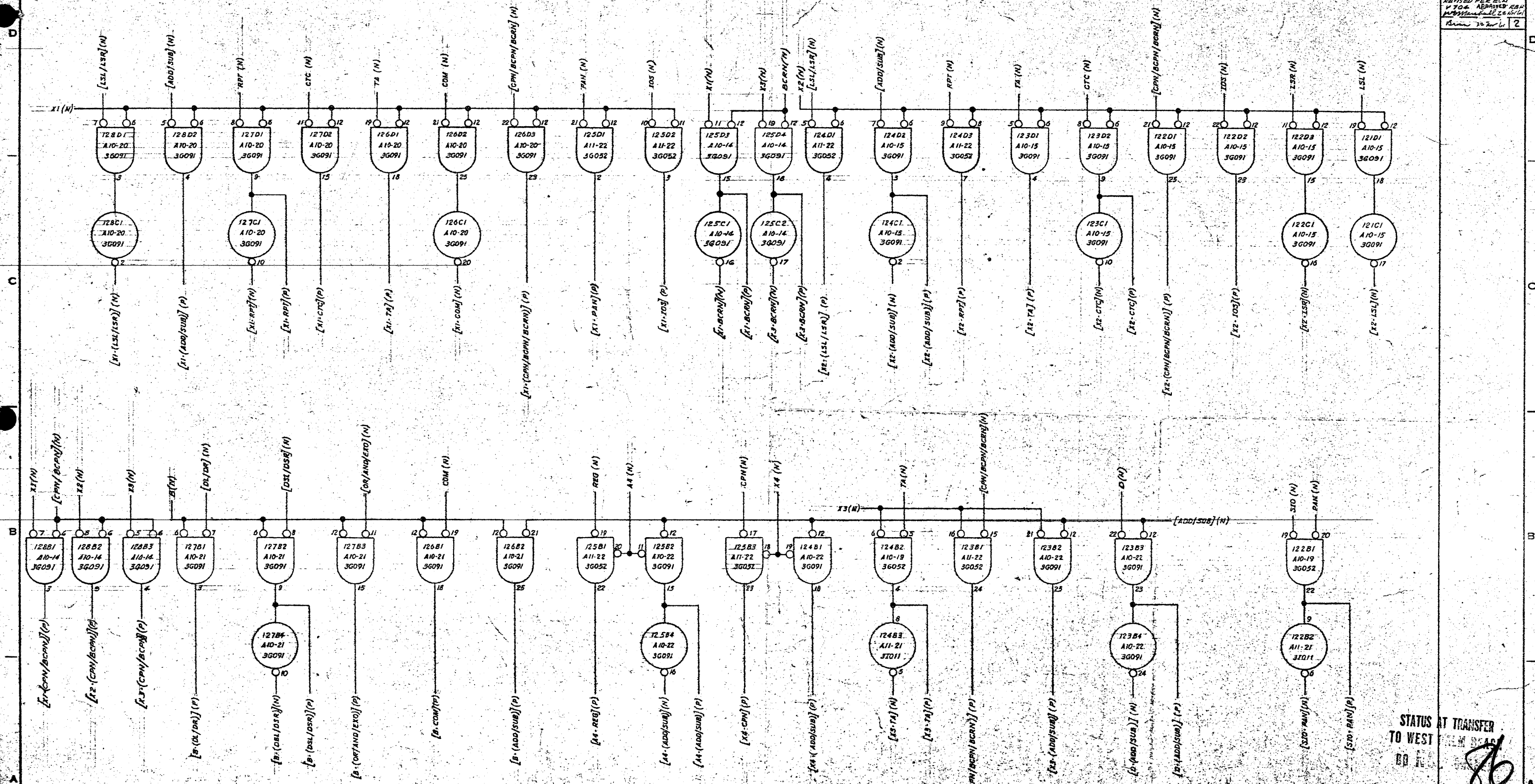
THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF RADIO CORPORATION OF AMERICA, AND SHALL NOT BE REPRODUCED OR COPIED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION

8617035

8617035

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. BY DATE	0
REVISED BY DATE	1
REVISED PER ECN	2



STATUS AT TRANSFER
TO WEST
86

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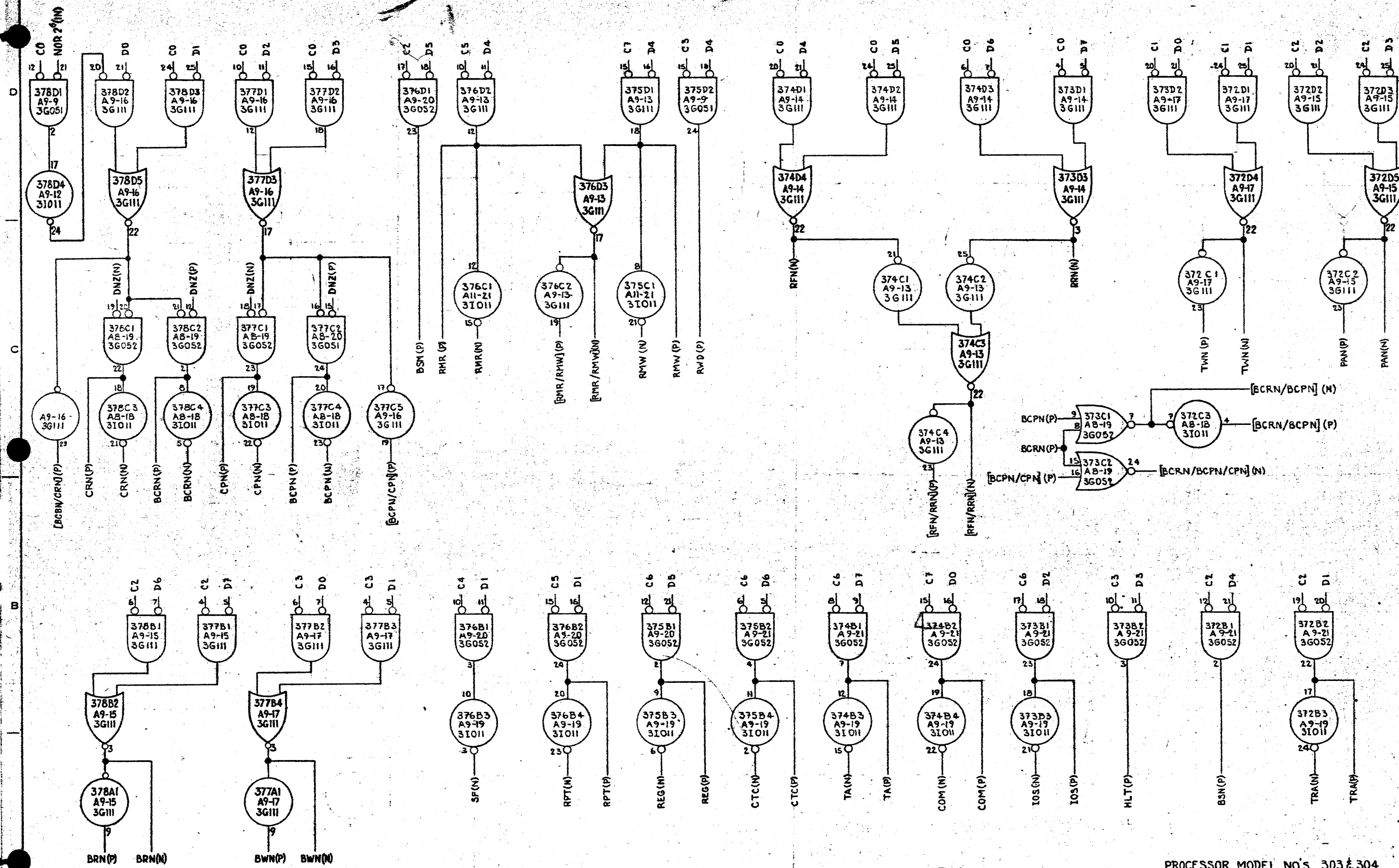
3506012

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGINEERING LOGIC DIAGRAM		TC
BASIC DIMENSIONS	2 PLACES DECIMALS	3 PLACES DECIMALS	4 PLACES DECIMALS	JA
BY TO 4	2.01	2.02	2.03	PF
DATE	10-22-53	10-22-53	10-22-53	JF
APPROVED BY	2.01	2.02	2.03	VF
DESIGNED BY	RADIO CORPORATION OF AMERICA PALM BEACH GARDENS CENTER		CHECKED BY	V104
COMMODITY CODE			D 3506012	

A. H. PHELPS & CO., PALM BEACH GARDENS, FLORIDA

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
REVISED	0
REVISED	1
REVISED	2
REVISED	3
APPROVED MR	4



LOGIC ELEMENT INDEX

A9-9
A9-15
A9-16
A9-17
A9-19
A9-20
A9-21
A9-22
A9-23
A9-24
A9-25
A9-26
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A9-94
A9-95
A9-96
A9-97
A9-98
A9-99
A9-100

STATUS AT TRANSFER
TO WEST PALM BEACH
DO NOT CHANGE

PROCESSOR MODEL NO'S. 303 & 304

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		PLACE		FIRST MADE FOR		USED ON 8511953	
BASE DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS	4 PLACE DECIMALS	DATE	BY	DATE	BY
UP TO 6	0.005	0.002	0.001	1961	...	1961	...
6 TO 24	0.003	0.001	0.0005
ABOVE 24	0.002	0.0005	0.0002

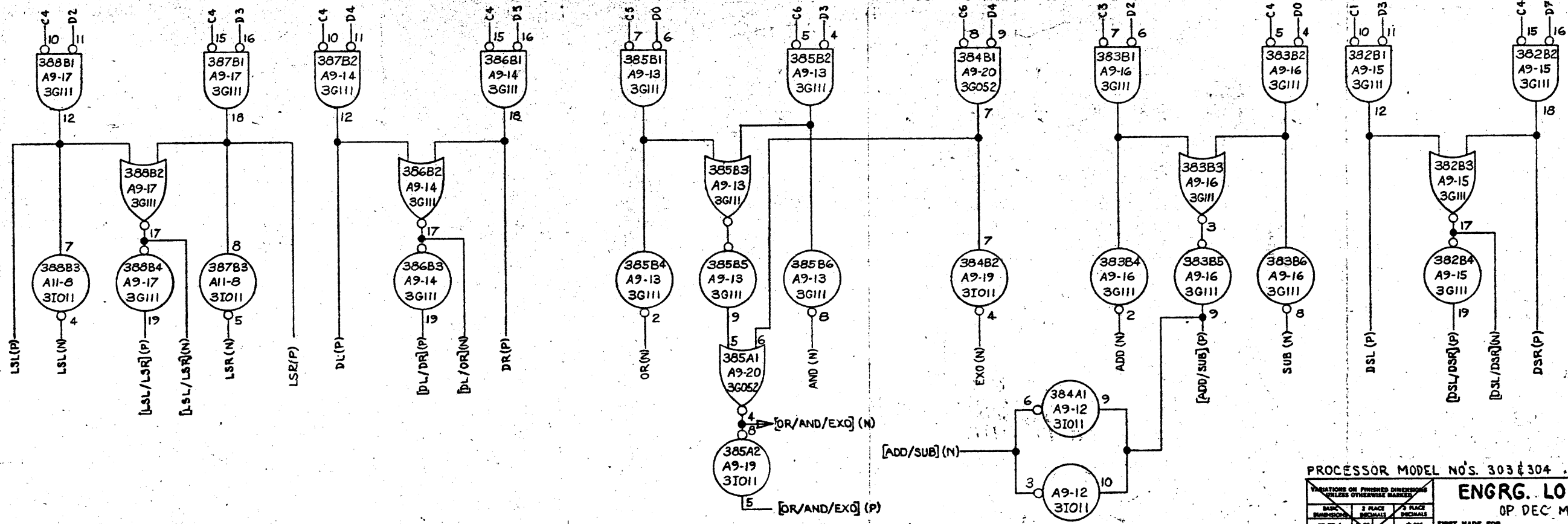
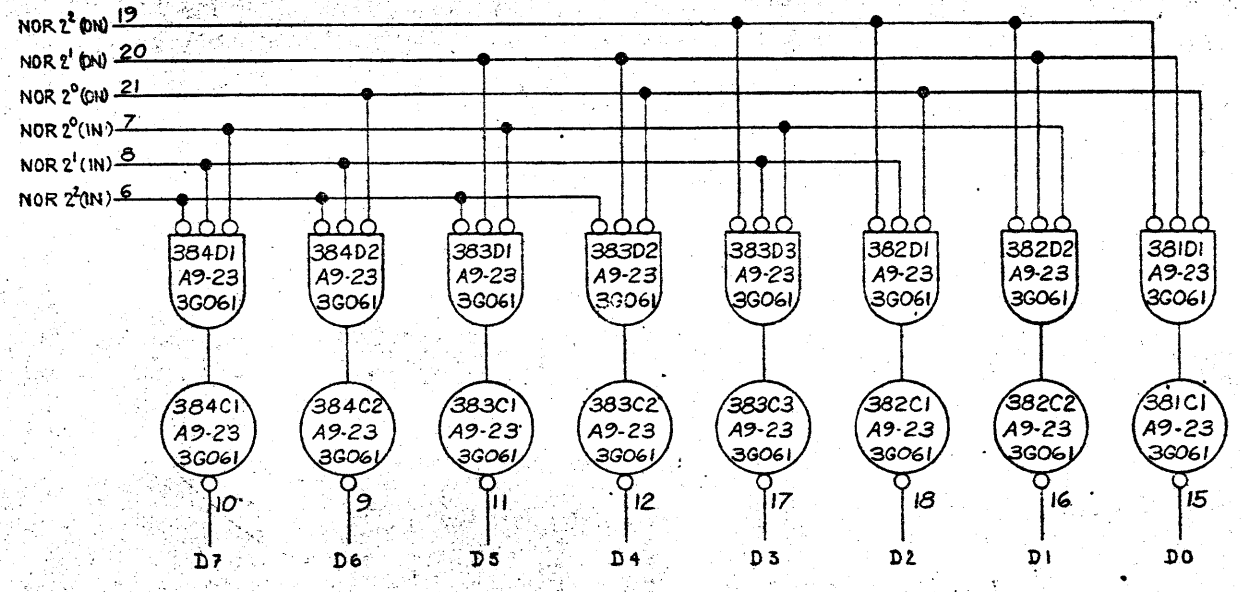
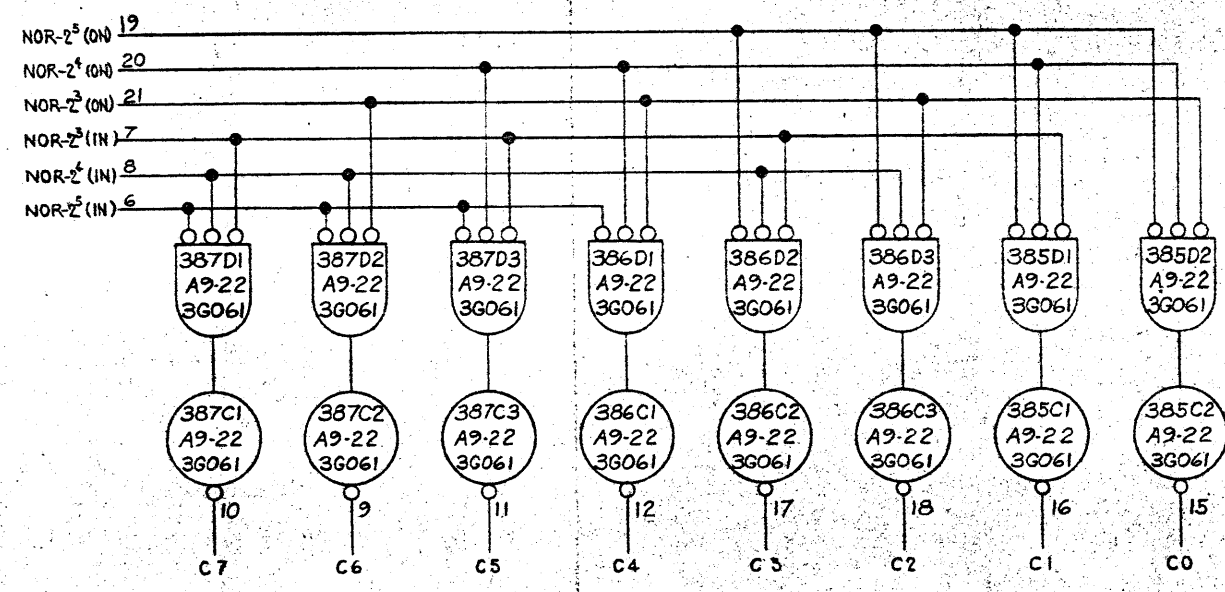
ENGRG. LOGIC DIAGRAM
OP DEC MATRIX I

RADIO CORPORATION OF AMERICA
CAMDEN, N.J.

8617037

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
1	APPROVED NR November 4, 1961



LOGIC ELEMENT INDEX
 A9-12
 A9-13
 A9-14
 A9-15
 A9-16
 A9-17
 A9-19
 A9-20
 A9-22
 A9-23
 A11-8

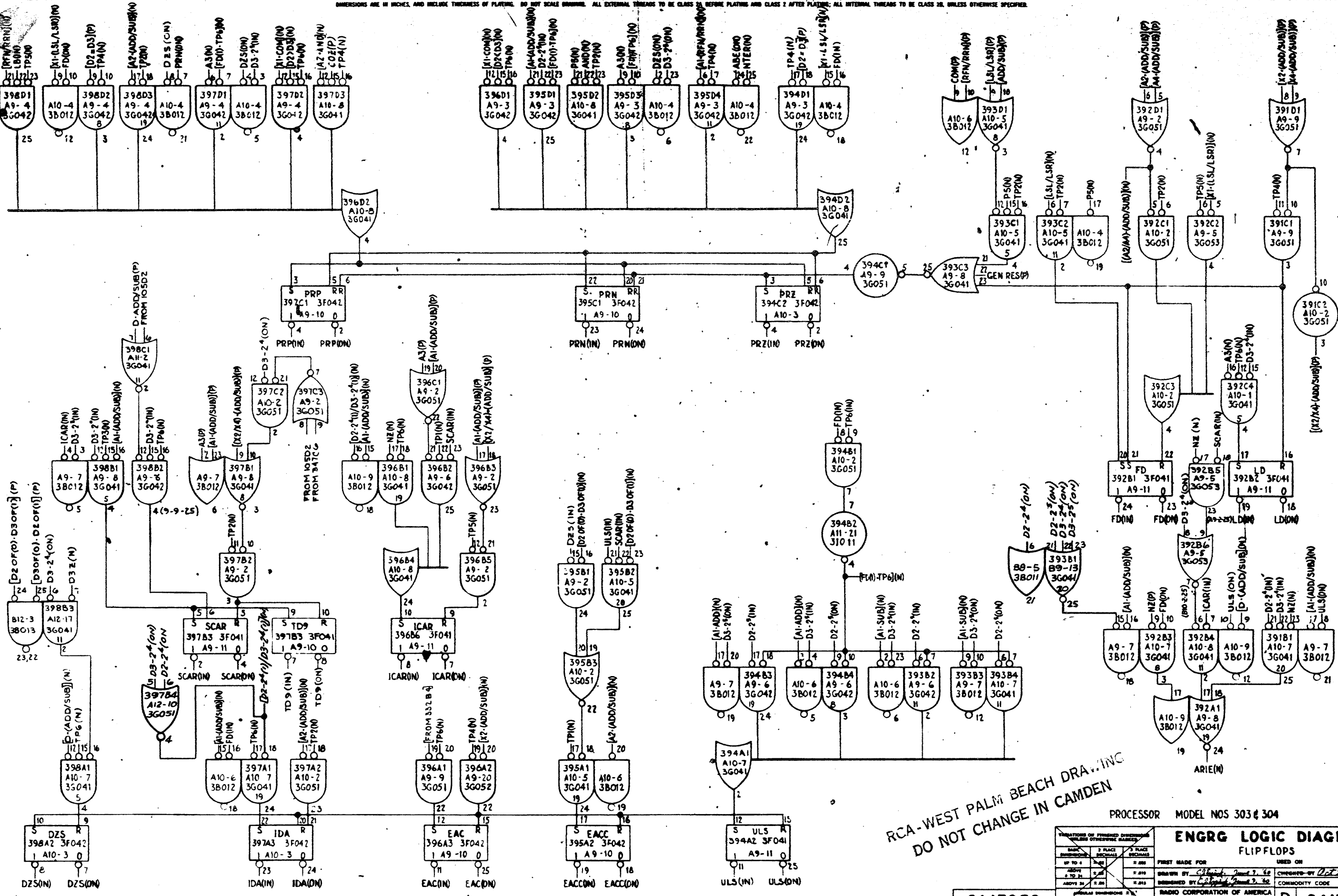
STATUS AT TRANSFER TO WEST PALM BEACH DO NOT CHANGE

PROCESSOR MODEL NOS. 303 & 304

VARIANCES ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		ENGRG. LOGIC DIAGRAM	
BASE DIMENSIONS	3 PLACE DECIMALS	OP DEC MATRIX II	
UP TO 4	2.00	FIRST MADE FOR	USED ON 8511953
EXCISE 4 TO 14	2.00	DRAWN BY	CHECKED BY
ABOVE 14	2.00	DESIGNED BY	COMMODITY CODE
MICHAEL DIMENSIONS 2 IN. SEE FIGURAL SPEC. FOR EXACT MEASUREMENTS		RADIO CORPORATION OF AMERICA CAMDEN, N.J.	
8617038		D 8617038	

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS
 REVISION 1
 REVISION 2
 REVISION 3
 REVISION 4
 REVISION 5
 REVISION 6
 REVISION 7
 REVISION 8
 REVISION 9
 REVISION 10
 REVISION 11
 REVISION 12
 REVISION 13
 REVISION 14
 REVISION 15
 REVISION 16
 REVISION 17
 REVISION 18
 REVISION 19
 REVISION 20
 REVISION 21
 REVISION 22
 REVISION 23
 REVISION 24
 REVISION 25
 REVISION 26
 REVISION 27
 REVISION 28
 REVISION 29
 REVISION 30
 REVISION 31
 REVISION 32
 REVISION 33
 REVISION 34
 REVISION 35
 REVISION 36
 REVISION 37
 REVISION 38
 REVISION 39
 REVISION 40
 REVISION 41
 REVISION 42
 REVISION 43
 REVISION 44
 REVISION 45
 REVISION 46
 REVISION 47
 REVISION 48
 REVISION 49
 REVISION 50



RCA-WEST PALM BEACH DRAWING
 DO NOT CHANGE IN CAMDEN

PROCESSOR MODEL NOS 303 & 304

ENGRG LOGIC DIAGRAM
 FLIPFLOPS

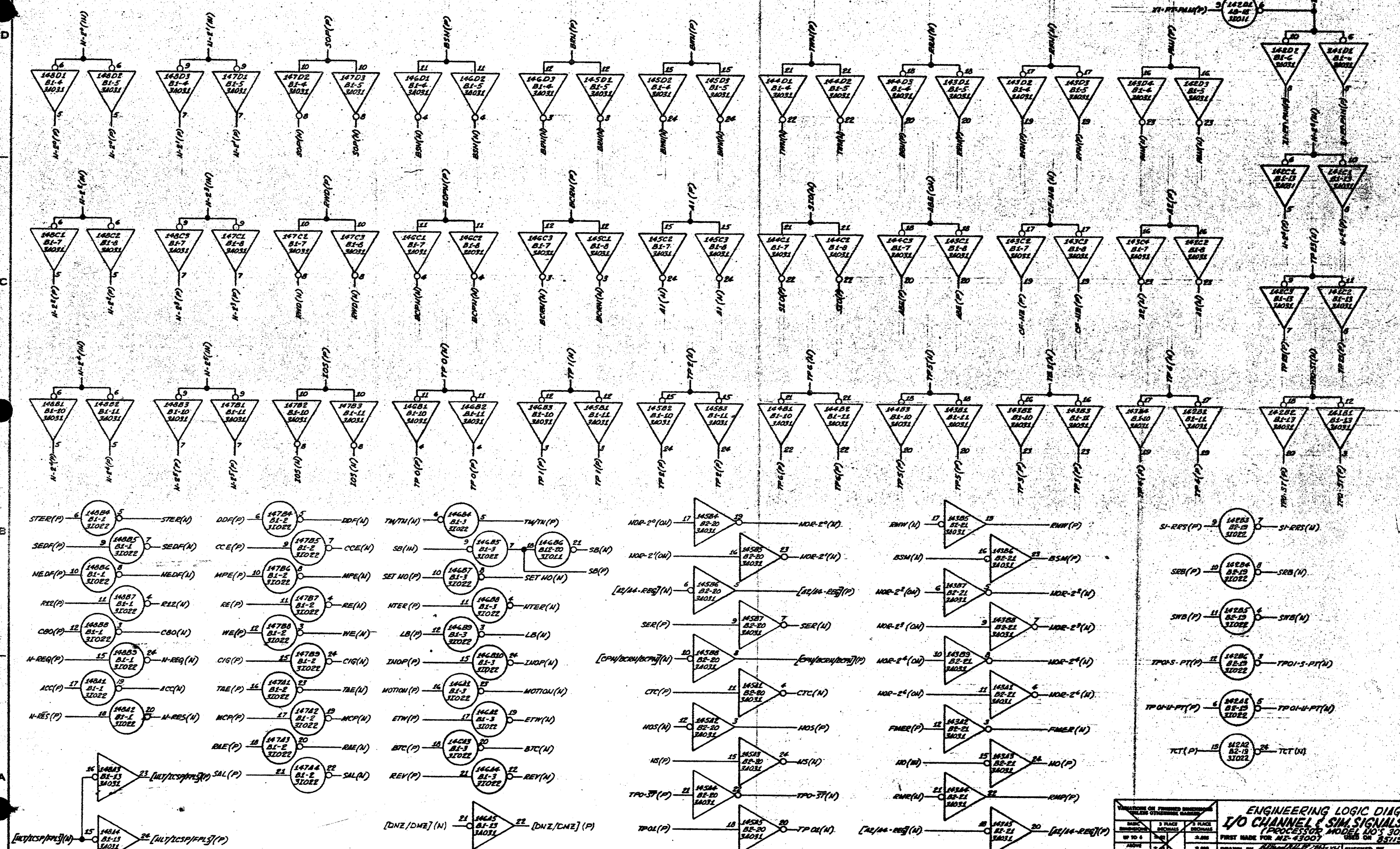
OPERATIONS ON FINISHED DRAWINGS UNLESS OTHERWISE SPECIFIED		FIRST MADE FOR		USED ON	
DATE	BY	NO.	BY	NO.	BY
10/25/60	W. J. ...	2	W. J. ...	2	W. J. ...
11/15/60	W. J. ...	3	W. J. ...	3	W. J. ...
12/15/60	W. J. ...	4	W. J. ...	4	W. J. ...
1/15/61	W. J. ...	5	W. J. ...	5	W. J. ...
2/15/61	W. J. ...	6	W. J. ...	6	W. J. ...
3/15/61	W. J. ...	7	W. J. ...	7	W. J. ...
4/15/61	W. J. ...	8	W. J. ...	8	W. J. ...
5/15/61	W. J. ...	9	W. J. ...	9	W. J. ...
6/15/61	W. J. ...	10	W. J. ...	10	W. J. ...
7/15/61	W. J. ...	11	W. J. ...	11	W. J. ...
8/15/61	W. J. ...	12	W. J. ...	12	W. J. ...
9/15/61	W. J. ...	13	W. J. ...	13	W. J. ...
10/15/61	W. J. ...	14	W. J. ...	14	W. J. ...
11/15/61	W. J. ...	15	W. J. ...	15	W. J. ...
12/15/61	W. J. ...	16	W. J. ...	16	W. J. ...
1/15/62	W. J. ...	17	W. J. ...	17	W. J. ...
2/15/62	W. J. ...	18	W. J. ...	18	W. J. ...
3/15/62	W. J. ...	19	W. J. ...	19	W. J. ...
4/15/62	W. J. ...	20	W. J. ...	20	W. J. ...
5/15/62	W. J. ...	21	W. J. ...	21	W. J. ...
6/15/62	W. J. ...	22	W. J. ...	22	W. J. ...
7/15/62	W. J. ...	23	W. J. ...	23	W. J. ...
8/15/62	W. J. ...	24	W. J. ...	24	W. J. ...
9/15/62	W. J. ...	25	W. J. ...	25	W. J. ...
10/15/62	W. J. ...	26	W. J. ...	26	W. J. ...
11/15/62	W. J. ...	27	W. J. ...	27	W. J. ...
12/15/62	W. J. ...	28	W. J. ...	28	W. J. ...
1/15/63	W. J. ...	29	W. J. ...	29	W. J. ...
2/15/63	W. J. ...	30	W. J. ...	30	W. J. ...
3/15/63	W. J. ...	31	W. J. ...	31	W. J. ...
4/15/63	W. J. ...	32	W. J. ...	32	W. J. ...
5/15/63	W. J. ...	33	W. J. ...	33	W. J. ...
6/15/63	W. J. ...	34	W. J. ...	34	W. J. ...
7/15/63	W. J. ...	35	W. J. ...	35	W. J. ...
8/15/63	W. J. ...	36	W. J. ...	36	W. J. ...
9/15/63	W. J. ...	37	W. J. ...	37	W. J. ...
10/15/63	W. J. ...	38	W. J. ...	38	W. J. ...
11/15/63	W. J. ...	39	W. J. ...	39	W. J. ...
12/15/63	W. J. ...	40	W. J. ...	40	W. J. ...
1/15/64	W. J. ...	41	W. J. ...	41	W. J. ...
2/15/64	W. J. ...	42	W. J. ...	42	W. J. ...
3/15/64	W. J. ...	43	W. J. ...	43	W. J. ...
4/15/64	W. J. ...	44	W. J. ...	44	W. J. ...
5/15/64	W. J. ...	45	W. J. ...	45	W. J. ...
6/15/64	W. J. ...	46	W. J. ...	46	W. J. ...
7/15/64	W. J. ...	47	W. J. ...	47	W. J. ...
8/15/64	W. J. ...	48	W. J. ...	48	W. J. ...
9/15/64	W. J. ...	49	W. J. ...	49	W. J. ...
10/15/64	W. J. ...	50	W. J. ...	50	W. J. ...

8617039

8617039

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. 0	DATE 10/1/54
NO. 1	DATE 10/1/54
NO. 2	DATE 10/1/54



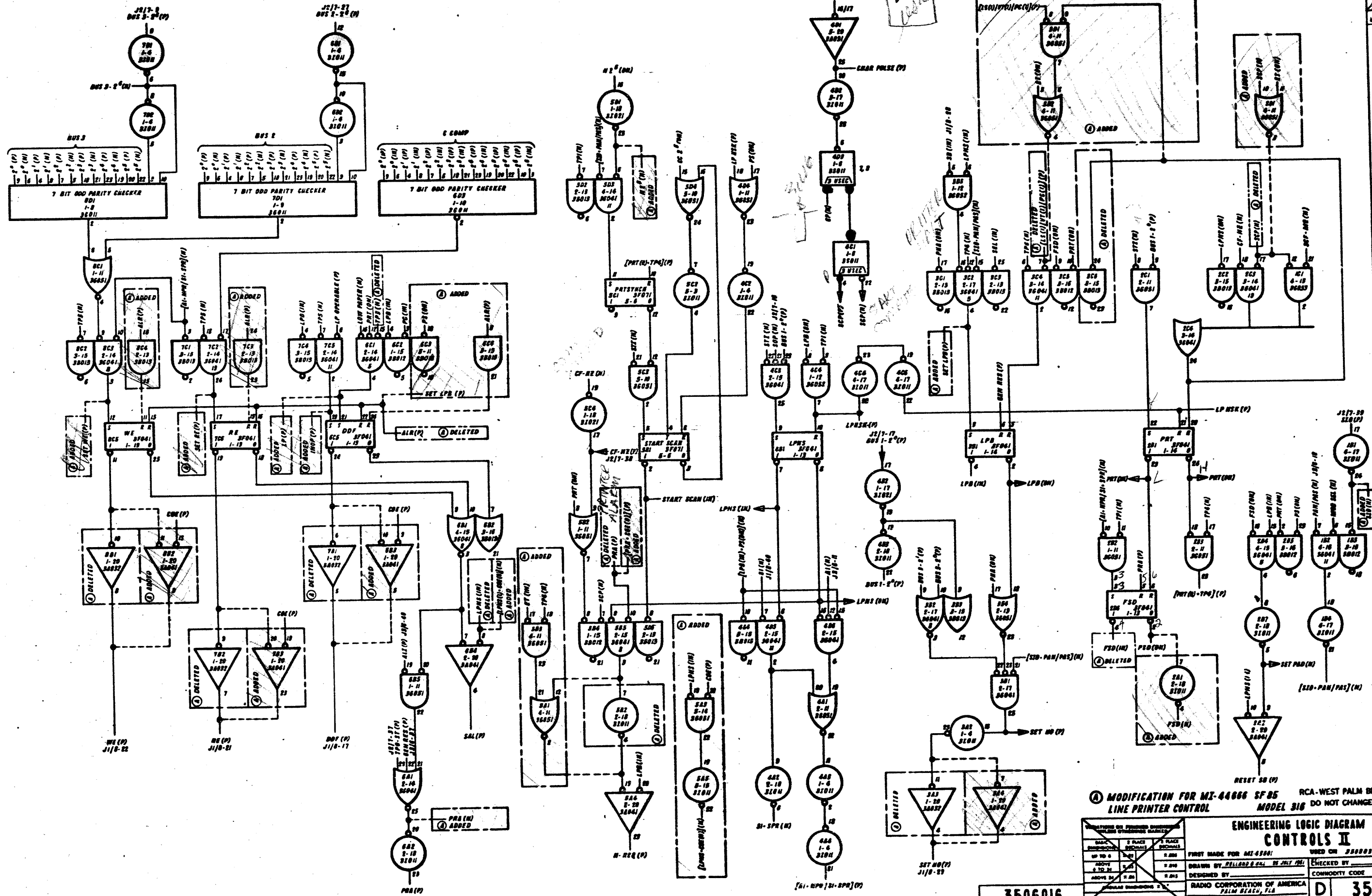
90
PRELIM.

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DIMENSIONS ON FINISHED DRAWINGS UNLESS OTHERWISE SPECIFIED		ENGINEERING LOGIC DIAGRAM		TC
3 PLACE DECIMALS	3 PLACE DECIMALS	I/O CHANNEL & SIM SIGNALS SHEET II		JB
UP TO 4	UP TO 4	PROCESSOR MODEL NO'S 303A & 304A		PE
UP TO 16	UP TO 16	FIRST MADE FOR ME-43007		215
UP TO 24	UP TO 24	DRAWN BY: [Signature]		VF
UP TO 36	UP TO 36	CHECKED BY: [Signature]		JF
		DESIGNED BY: [Signature]		FRL
		COMMUNITY CODE		
		RADIO CORPORATION OF AMERICA		
		PALM BEACH GARDENS CENTER		
		3506014		
		D 3506014		

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
NO. BY DATE	0
DESCRIPTION	REVISION
1	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
2	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
3	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
4	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
5	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
6	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
7	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
8	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL
9	ADD MODIFICATION FOR MI-44666 SF85 LINE PRINTER CONTROL

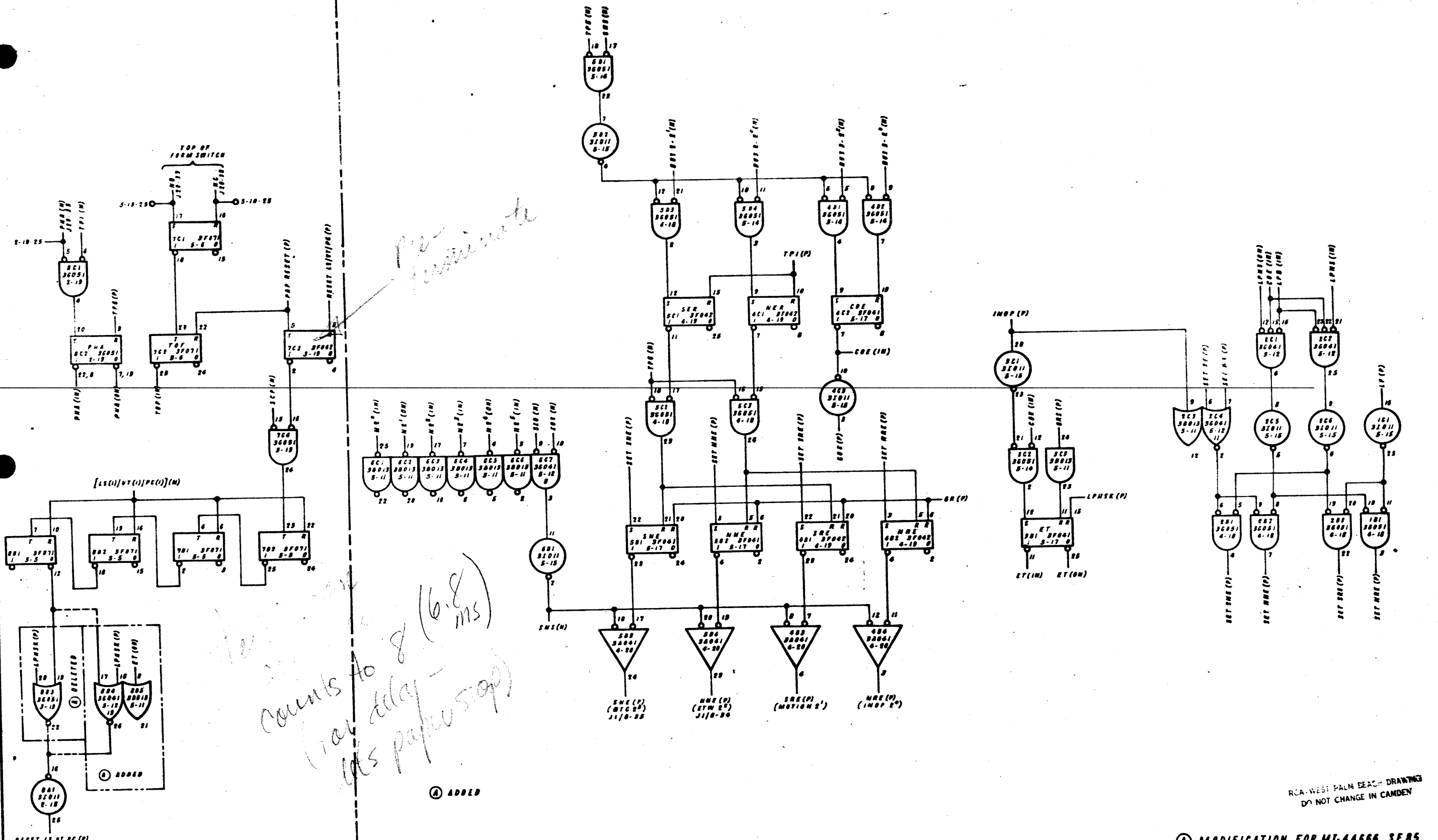


① MODIFICATION FOR MI-44666 SF85
 LINE PRINTER CONTROL
 DO NOT CHANGE IN CAMDEN

ENGINEERING LOGIC DIAGRAM	
CONTROLS II	
DESIGNED BY	3506016
CHECKED BY	
DATE	
REVISION	
NO. BY DATE	
DESCRIPTION	
1	
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DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

REVISIONS	
AP. BY JOHN GENTLE	0
DATE	
REVISION 1	12
REVISIONS 1 AND 12 ISSUED AT SAME TIME	



*counts to 8 (6.8 ms)
 (may delay
 its paper stop)*

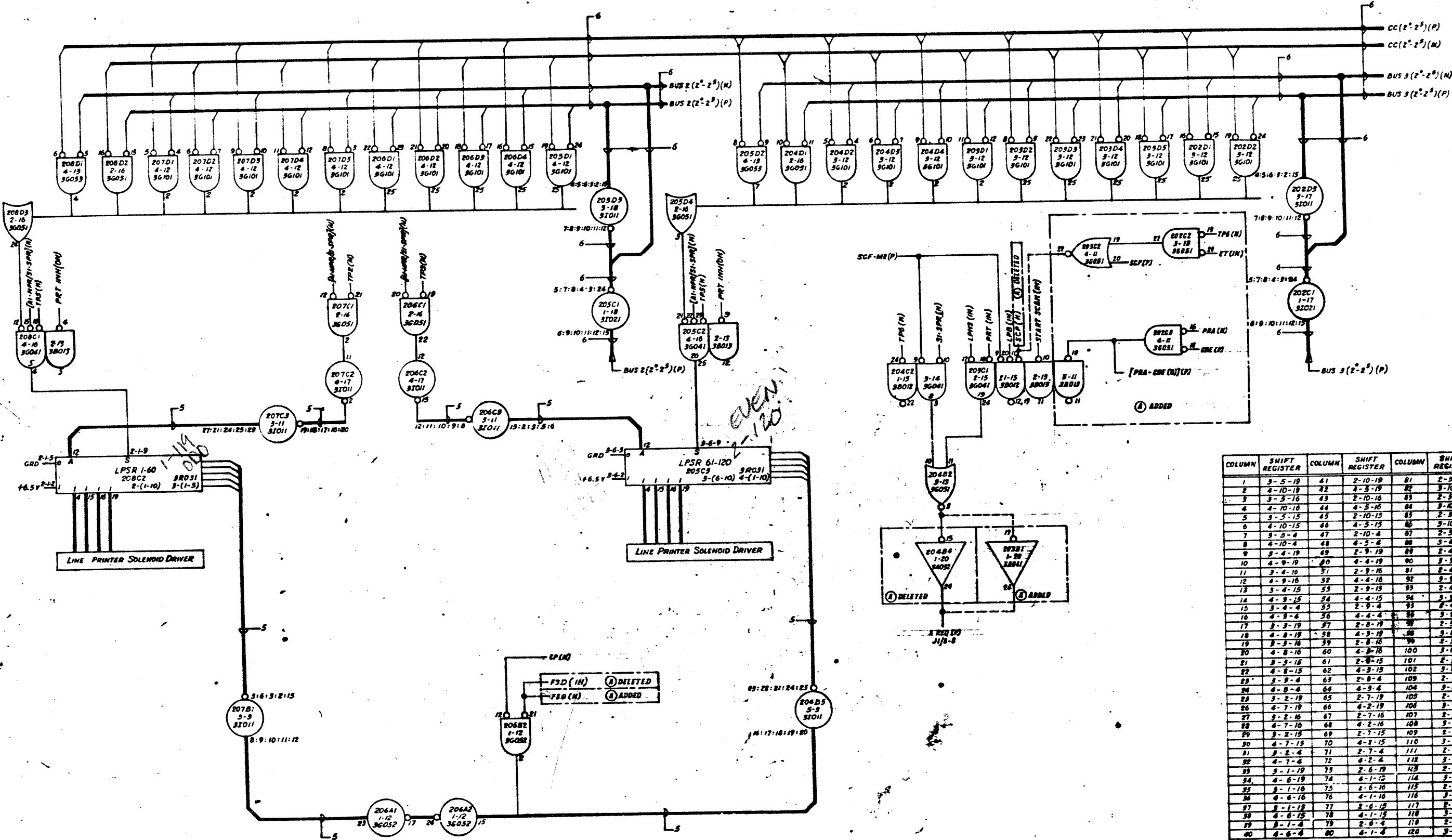
Ⓐ ADDED

RCA - WEST PALM BEACH DRAWING
 DO NOT CHANGE IN CAMDEN

Ⓐ MODIFICATION FOR MI-4466 SF85
 MODEL 316

VARIATIONS ON PREFERRED DIMENSIONS UNLESS OTHERWISE SPECIFIED		ENGINEERING LOGIC DIAGRAM	
BASIC DIMENSIONS	± 0.005	PAPER CONTROL	
UP TO 4	± 0.010	FIRST MADE FOR MI-4466	UNIT ON 3506016
4 TO 24	± 0.015	DRAWN BY	CK. BY
24 TO 48	± 0.020	DESIGNED BY	COMMODITY CODE
48 TO 96	± 0.030	RADIO CORPORATION OF AMERICA PALM BEACH, FLA. CODE IDENT NO. 44671	
96 TO 192	± 0.040	D 3506019	
192 TO 384	± 0.050	3506019	
384 TO 768	± 0.060	202	
768 TO 1536	± 0.070		
1536 TO 3072	± 0.080		
3072 TO 6144	± 0.090		
6144 TO 12288	± 0.100		
12288 TO 24576	± 0.110		
24576 TO 49152	± 0.120		
49152 TO 98304	± 0.130		
98304 TO 196608	± 0.140		
196608 TO 393216	± 0.150		
393216 TO 786432	± 0.160		
786432 TO 1572864	± 0.170		
1572864 TO 3145728	± 0.180		
3145728 TO 6291456	± 0.190		
6291456 TO 12582912	± 0.200		

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS BA BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2R, UNLESS OTHERWISE SPECIFIED.



REVISIONS

NO.	DATE	DESCRIPTION
0		REVISED
1		REVISED
2		REVISED
3		APPROVED
4		ADDED
5		ADDED

ZONE C6,7 BUS:

ZONE A6 BUS:

IN ZONE C6, PH 4-16-18 TRG(N), IN ZONE C6, PH 4-16-18 BUS TRG(N), ECM 1704

ADDED WIP FOR SF85

COLUMN	SHIFT REGISTER	COLUMN	SHIFT REGISTER	COLUMN	SHIFT REGISTER
1	3-5-19	41	2-10-19	81	2-5-19
2	4-10-19	42	4-3-19	82	3-10-19
3	3-5-16	43	2-10-16	83	2-5-16
4	4-10-16	44	4-5-16	84	3-10-16
5	3-5-15	45	2-10-15	85	2-5-15
6	4-10-15	46	4-5-15	86	3-10-15
7	3-5-4	47	2-10-4	87	2-5-4
8	4-10-4	48	4-5-4	88	3-10-4
9	3-5-19	49	2-9-19	89	2-4-19
10	4-9-19	50	4-4-19	90	3-9-19
11	3-4-16	51	2-9-16	91	2-4-16
12	4-9-16	52	4-4-16	92	3-9-16
13	3-4-15	53	2-9-15	93	2-4-15
14	4-9-15	54	4-4-15	94	3-9-15
15	3-4-4	55	2-9-4	95	2-4-4
16	4-9-4	56	4-4-4	96	3-9-4
17	3-5-19	57	2-8-19	97	2-5-19
18	4-8-19	58	4-3-19	98	3-8-19
19	3-5-16	59	2-8-16	99	2-5-16
20	4-8-16	60	4-3-16	100	3-8-16
21	3-5-15	61	2-8-15	101	2-5-15
22	4-8-15	62	4-3-15	102	3-8-15
23	3-5-4	63	2-8-4	103	2-5-4
24	4-8-4	64	4-3-4	104	3-8-4
25	3-5-19	65	2-7-19	105	2-5-19
26	4-8-19	66	4-2-19	106	3-8-19
27	3-5-16	67	2-7-16	107	2-5-16
28	4-8-16	68	4-2-16	108	3-8-16
29	3-5-15	69	2-7-15	109	2-5-15
30	4-8-15	70	4-2-15	110	3-8-15
31	3-5-4	71	2-7-4	111	2-5-4
32	4-8-4	72	4-2-4	112	3-8-4
33	3-5-19	73	2-6-19	113	2-5-19
34	4-8-19	74	4-1-19	114	3-8-19
35	3-5-16	75	2-6-16	115	2-5-16
36	4-8-16	76	4-1-16	116	3-8-16
37	3-5-15	77	2-6-15	117	2-5-15
38	4-8-15	78	4-1-15	118	3-8-15
39	3-5-4	79	2-6-4	119	2-5-4
40	4-8-4	80	4-1-4	120	3-8-4

SOB'S ELEMENT INDEX

1-12	1-1
1-13	1-10
1-14	1-10
1-15	1-10
1-16	1-10
1-17	1-10
1-18	1-10
1-19	1-10
1-20	1-10

① MODIFICATION FOR MI-4466 SF85

RCA-WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

ENGINEERING LOGIC DIAGRAM
CONTROLS III
(LINE PRINTER CONTROL MODULE - MODEL 86)

FIRST MADE FOR MI-43002 USED ON 3508056

DRAWN BY: R. J. ... CHECKED BY: ...

DESIGNED BY: ... COMMODITY CODE: ...

RADIO CORPORATION OF AMERICA
PALM BEACH GARDENS CENTER
CODE IDENT NO. 09671

3506020

3506020

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

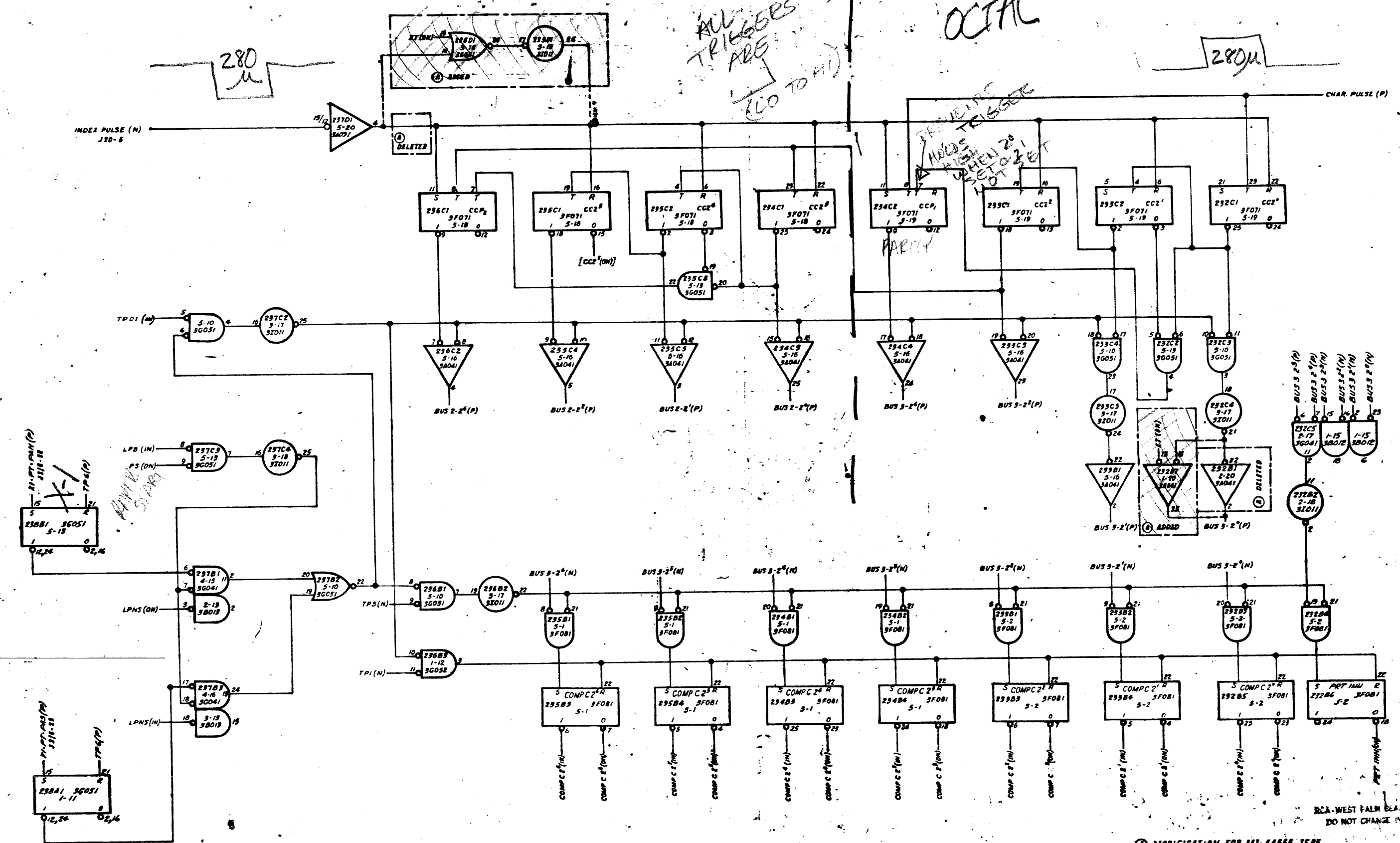
REVISIONS	
AP BY	0
DATE	
REVISED BY	1
DATE	
REVISED BY	2
DATE	
APPROVED BY	3
DATE	
ADDED BY	4
DATE	

ALL TRIGGERS ARE (LO TO HI)

OCTAL

280 μ

280 μ



- 1-10
- 1-15
- 1-17
- 1-18
- 1-19
- 1-20
- 1-21
- 1-22
- 1-23
- 1-24
- 1-25
- 1-26
- 1-27
- 1-28
- 1-29
- 1-30

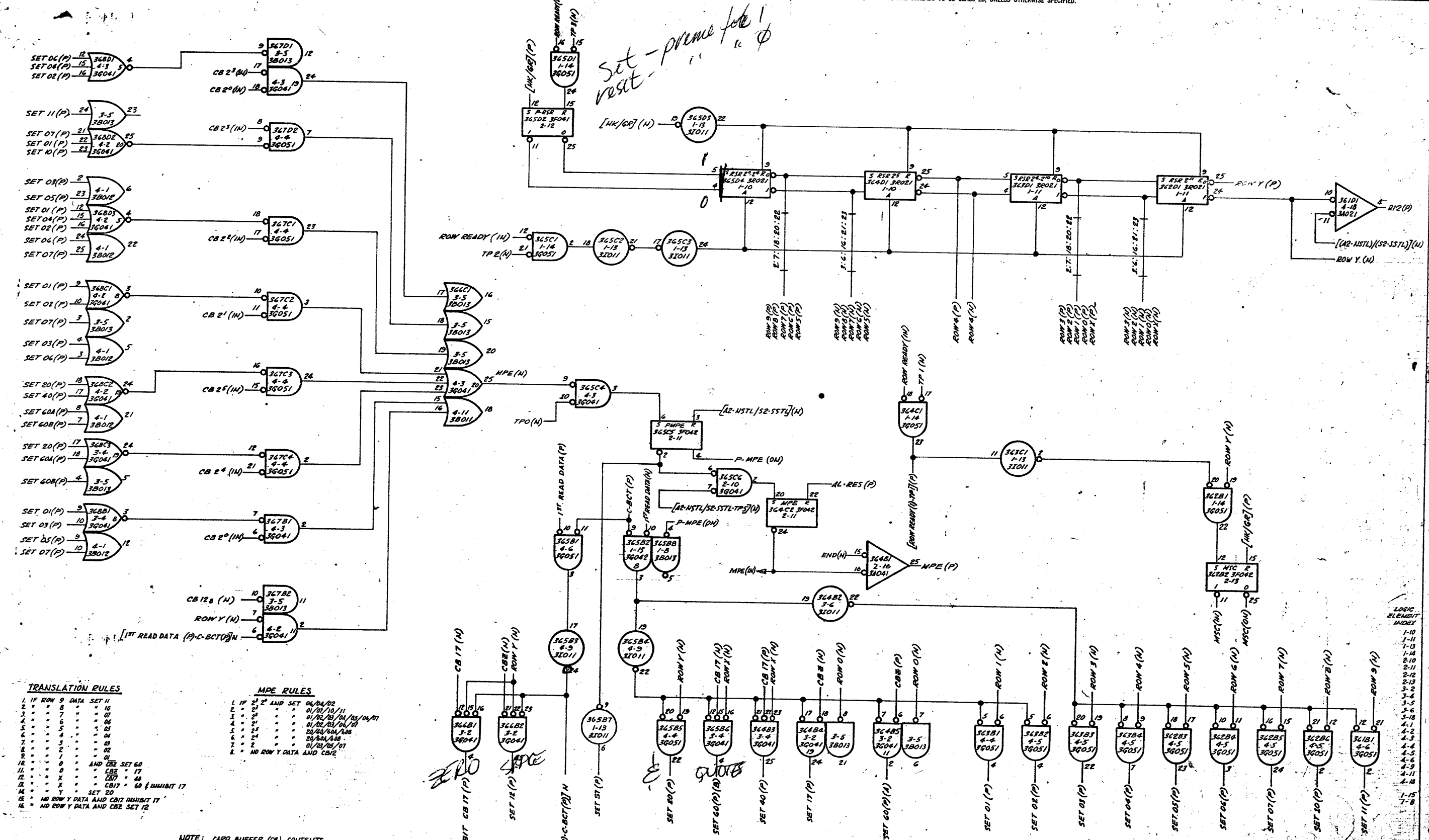
RCA-WEST PALM BEACH DESIGN
DO NOT CHANGE IN CARTON

MODIFICATION FOR M1-64666 SF85				ENGINEERING LOGIC DIAGRAM			
CHARACTER COUNTER COMPARING CHARACTER REG.				(LINE PRINTER CONTROL MODULE - MODEL 316)			
FIRST MADE FOR M1-45001				USED ON 3508036			
DESIGNED BY	DATE	CHECKED BY	DATE	DESIGNED BY	DATE	CHECKED BY	DATE
RADIO CORPORATION OF AMERICA				RADIO CORPORATION OF AMERICA			
PALM BEACH GARDENS CENTER				PALM BEACH GARDENS CENTER			
CODE IDENT NO. 49471				CODE IDENT NO. 49471			

3506023

D 3506023

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



TRANSLATION RULES

- 1. IF ROW 9 DATA SET 11
2. IF ROW 8 DATA SET 10
3. IF ROW 7 DATA SET 09
4. IF ROW 6 DATA SET 08
5. IF ROW 5 DATA SET 07
6. IF ROW 4 DATA SET 06
7. IF ROW 3 DATA SET 05
8. IF ROW 2 DATA SET 04
9. IF ROW 1 DATA SET 03
10. IF ROW 0 DATA AND CBE SET 60
11. IF ROW 0 DATA AND CBE SET 17
12. IF ROW 0 DATA AND CBE SET 40
13. IF ROW 0 DATA AND CBE SET 60 INHIBIT 17
14. IF ROW 0 DATA AND CBE SET 20
15. IF ROW 0 DATA AND CBE INHIBIT 17
16. IF ROW 0 DATA AND CBE SET 12

MPE RULES

- 1. IF 2 AND SET 04/04/02
2. IF 2 AND SET 01/01/10/11
3. IF 2 AND SET 01/01/03/04/05/06/07
4. IF 2 AND SET 01/01/03/04/07
5. IF 2 AND SET 20/00/00/00/00
6. IF 2 AND SET 20/00/00/00
7. IF 2 AND SET 01/01/02/01
8. IF NO ROW Y DATA AND CBE 2

NOTE: CBE BUFFER (CB) CONTENTS EXPRESSED IN OCTAL FORM.

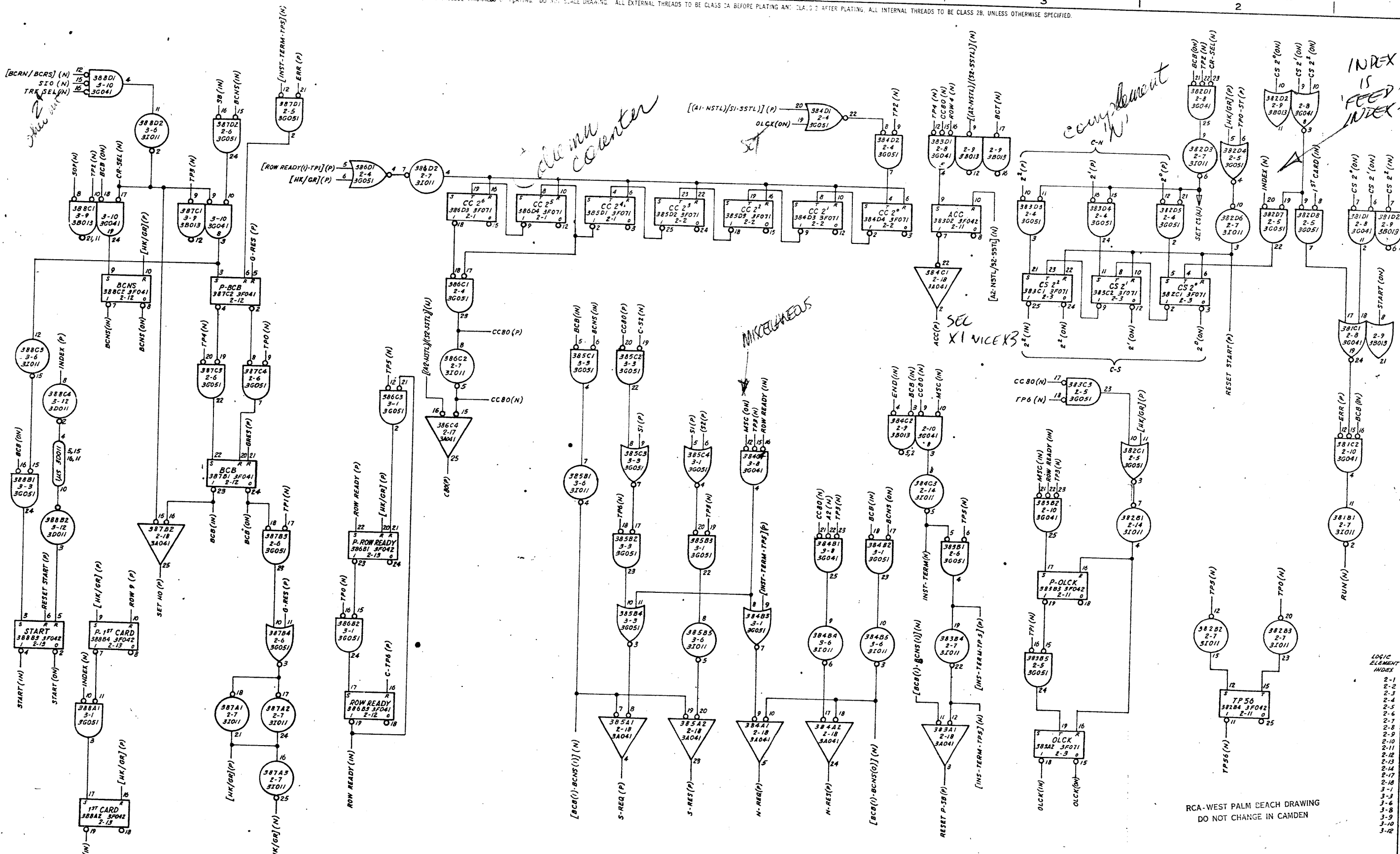
REVISIONS table with columns for AP. BY, DATE, MODEL NUMBER, and description of changes.

LOGIC ELEMENT INDEX table listing element numbers and their corresponding logic symbols.

ASSOCIATED DRAWINGS table listing drawing numbers for LOGICS, WIRE SCHEDULE, and COAT SCHEDULE.

Engineering title block containing drawing title 'CARD READER CONTROL MODEL 314-1R & 314-2R', drawing number '3506036', and company information 'RADIO CORPORATION OF AMERICA'.

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING. ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS

AP. BY	DATE	REVISION
...

MODEL NOS WERE 346-1 & 346-2

IN ZONE 6C CHANGED FROM

ECN V704

ZONE 3-4/D ELEMENTS

CC2 ACC WERE:

4B1, PIN 21 WAS CC80(N)

...

RCA - WEST PALM BEACH DRAWING
DO NOT CHANGE IN CAMDEN

ASSOCIATED DRAWINGS

LOGICS	3506035
	3506036
	3506037
	3506038
REFERENCE	3508060
WIRE SCHEDULE	3508061
COAT SCHEDULE	3508062

CARD READER CONTROL MODEL 314-1R & 314-2R

ENGINEERING LOGIC DIAGRAM
CONTROL & CC - BRIDGE CARD READER

FIRST MADE FOR ME 43021/43023 USED ON 3508063

DRAWN BY: R. W. ...

CHECKED BY: ...

DESIGNED BY: ...

RADIO CORPORATION OF AMERICA
EDP, P.B.C., FLA.

COMMODITY CODE
D 3506038

CODE IDENT NO. 49671

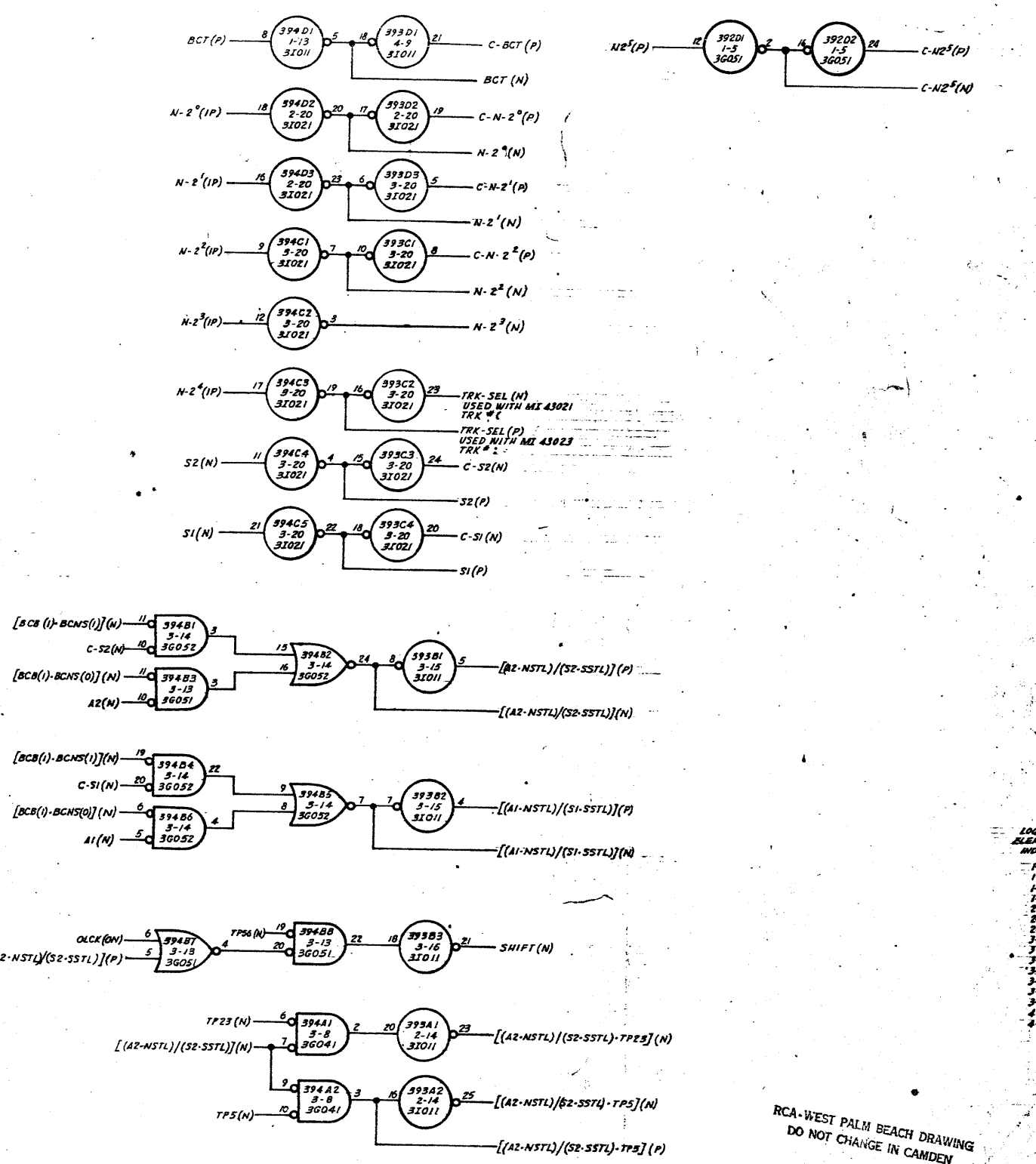
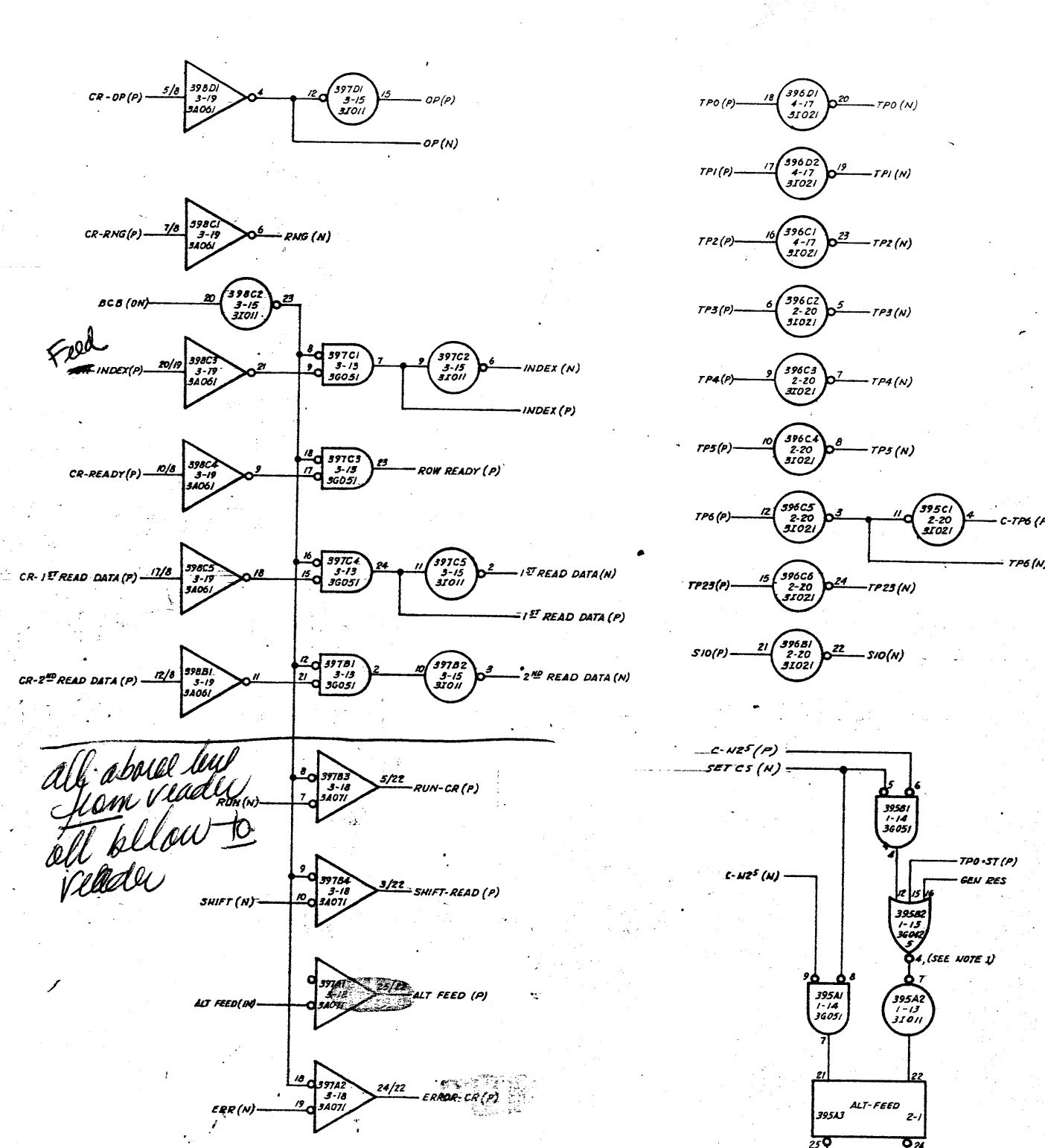
TC	
JD	
PF	
JE	
YF	
FL	
FKL	

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553

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REVISIONS	
AP. BY	0
DATE	5/1/61
MODEL NOS HERE	346-1 346-2
BY	1
DATE	11/30/61
BY	2
DATE	11/30/61
BY	3
DATE	11/30/61



LOGIC ELEMENT INDEX
1-5
1-10
1-14
1-18
2-1
2-14
2-18
2-21
2-24
2-27
2-30
2-33
2-36
2-39
2-42
2-45
2-48
2-51
2-54
2-57
2-60
2-63
2-66
2-69
2-72
2-75
2-78
2-81
2-84
2-87
2-90
2-93
2-96
2-99
3-1
3-4
3-7
3-10
3-13
3-16
3-19
3-22
3-25
3-28
3-31
3-34
3-37
3-40
3-43
3-46
3-49
3-52
3-55
3-58
3-61
3-64
3-67
3-70
3-73
3-76
3-79
3-82
3-85
3-88
3-91
3-94
3-97
3-100

NOTE 1: COLLECTOR LOAD FOR 39042 (1-15) LOCATED ON 39033 (1-6)

ASSOCIATED DRAWINGS	
LOGICS	3506035
	3506036
	3506037
	3506038
X REFERENCE	3508060
WIRE SCHEDULE	3508061
COXY SCHEDULE	3508062

3506039

CARD READER CONTROL MODEL 314-1R & 314-2R

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	±.01	±.005
6 TO 24	±.02	±.010
ABOVE 24	±.06	±.015
ANGULAR DIMENSIONS ±.1°		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

ENGINEERING LOGIC DIAGRAM
TRANS & REC.-BRIDGE CARD READER

FIRST MADE FOR MI-43021 & 43023 USED ON 3508063

DESIGNED BY: J. R. KELLY 14 JUN 1961
CHECKED BY: B. M. SOUTHWELL 11/30/61

RADIO CORPORATION OF AMERICA
EDP/PBCC, FLA.

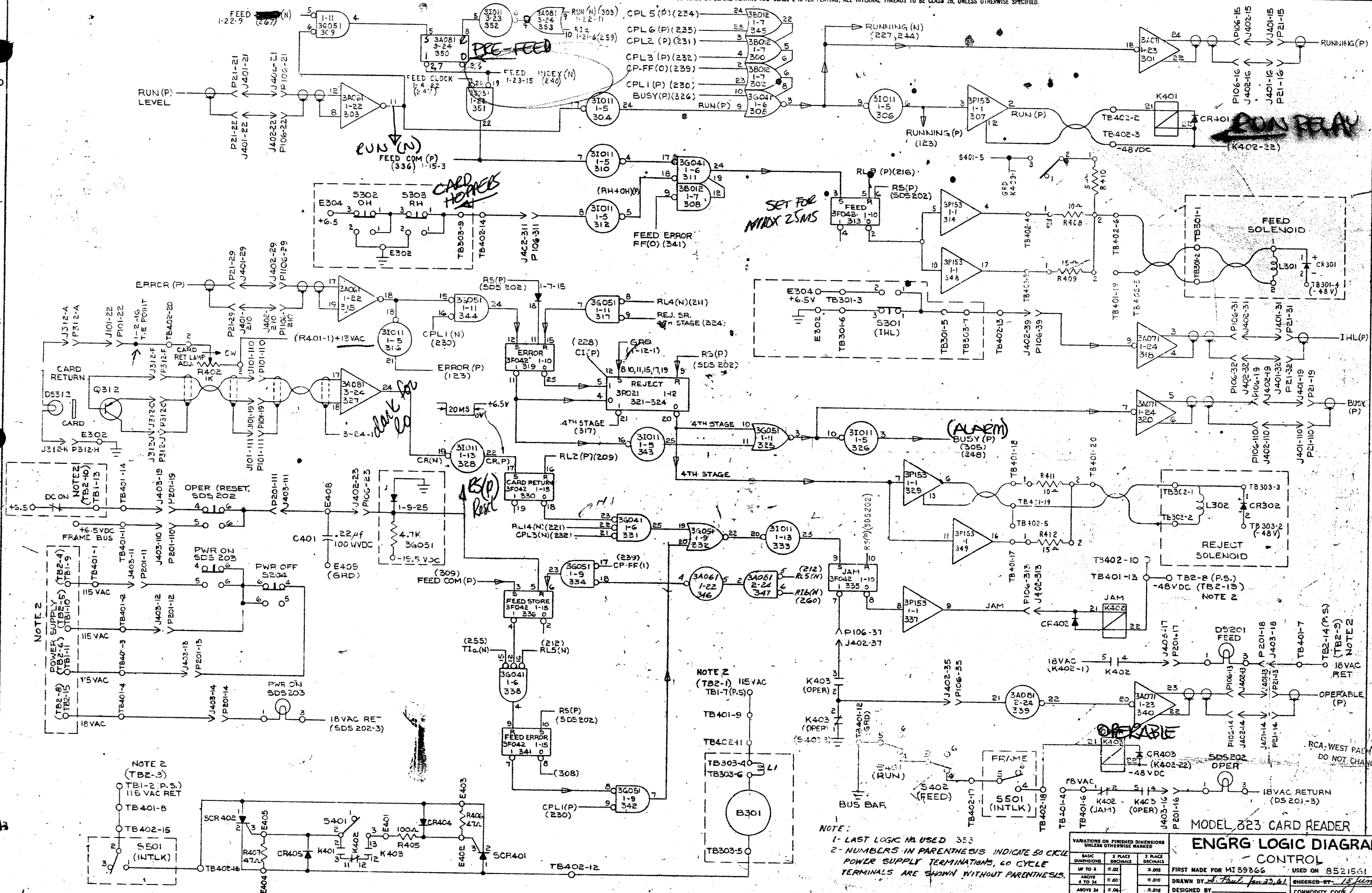
COMMODITY CODE: D
3506039

CODE IDENT NO. 49671

RCA-WEST PALM BEACH DRAWING DO NOT CHANGE IN CAMDEN

554

DIMENSIONS ARE IN INCHES, AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



REVISIONS	
AP. BY	DATE
REVISED ECN-13	15/61
11/19/61	1
11/19/61	2
11/19/61	3
11/19/61	4
11/19/61	5
11/19/61	6
11/19/61	7
11/19/61	8
11/19/61	9
11/19/61	10
11/19/61	11
11/19/61	12
11/19/61	13
11/19/61	14

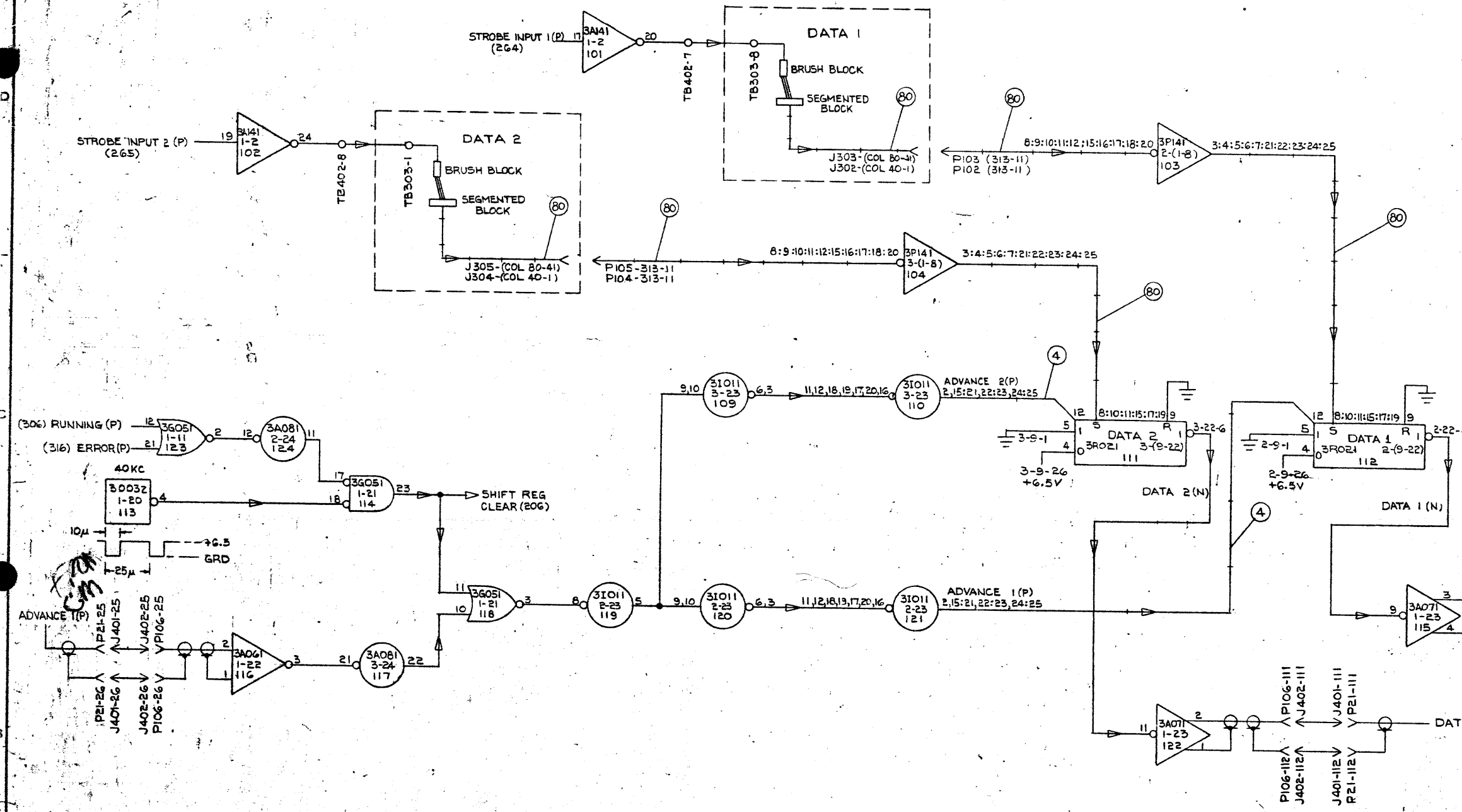
VARIATIONS IN FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	3 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 4	±.02	±.005
ABOVE 4 TO 24	±.03	±.010
ABOVE 24 TO 48	±.04	±.015
ANGULAR DIMENSIONS, 2 1/2"		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

ENGRG LOGIC DIAGRAM - CONTROL	
FIRST MADE FOR MI 59366	USED ON 8521561
DRAWN BY: Paul J. 23.61	CHECKED BY: 15 June 1961
DESIGNED BY:	COMMODITY CODE:
RADIO CORPORATION OF AMERICA CAMDEN, NJ	CODE IDENT NO. 49671

8619091

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COLUMN	DATA 1 (S.P.141) INPUT LOC		DATA 1 (S.R. (3R021) OUTPUT PIN		DATA 1 (S.R. (3R021) INPUT LOC		DATA 1 (S.R. (3R021) OUTPUT PIN	
	B.L.C.	INPUT LOC	B.L.C.	OUTPUT PIN	B.L.C.	INPUT LOC	B.L.C.	OUTPUT PIN
80	2-1-8	3	2-9-8	40	2-5-8	3	2-15-17	23
79	2-1-9	4	2-9-10	39	2-5-9	4	2-15-19	24
78	2-1-10	5	2-9-11	38	2-5-10	5	2-16-8	3
77	2-1-11	6	2-9-15	21	2-5-11	6	2-16-10	6
76	2-1-12	7	2-9-17	23	2-5-12	7	2-16-11	16
75	2-1-15	21	2-9-19	24	2-5-15	21	2-16-15	21
74	2-1-16	22	2-10-8	3	2-5-16	22	2-17-8	3
73	2-1-17	23	2-10-10	6	2-5-17	23	2-17-9	24
72	2-1-18	24	2-10-11	16	2-5-18	24	2-17-10	6
71	2-1-20	25	2-10-15	21	2-5-20	25	2-17-10	6
70	2-2-8	3	2-10-17	23	2-6-8	3	2-17-11	16
69	2-2-9	4	2-10-19	24	2-6-9	4	2-17-15	21
68	2-2-10	5	2-11-8	3	2-6-10	5	2-17-17	23
67	2-2-11	6	2-11-10	6	2-6-11	6	2-17-19	24
66	2-2-12	7	2-11-11	16	2-6-12	7	2-18-8	3
65	2-2-15	21	2-11-15	21	2-6-15	21	2-18-10	6
64	2-2-16	22	2-11-17	23	2-6-16	22	2-18-11	16
63	2-2-17	23	2-11-19	24	2-6-17	23	2-18-15	21
62	2-2-18	24	2-12-8	3	2-6-18	24	2-18-17	23
61	2-2-20	25	2-12-10	6	2-6-20	25	2-18-19	24
60	2-3-8	3	2-12-11	16	2-7-8	3	2-19-8	3
59	2-3-9	4	2-12-15	21	2-7-9	4	2-19-10	6
58	2-3-10	5	2-12-17	23	2-7-10	5	2-19-11	16
57	2-3-11	6	2-12-19	24	2-7-11	6	2-19-15	21
56	2-3-12	7	2-13-8	3	2-7-12	7	2-19-17	23
55	2-3-15	21	2-13-10	6	2-7-15	21	2-19-19	24
54	2-3-16	22	2-13-11	16	2-7-16	22	2-20-8	3
53	2-3-17	23	2-13-15	21	2-7-17	23	2-20-10	6
52	2-3-18	24	2-13-17	23	2-7-18	24	2-20-11	16
51	2-3-20	25	2-13-19	24	2-7-20	25	2-20-15	21
50	2-4-8	3	2-14-8	3	2-8-8	3	2-20-17	23
49	2-4-9	4	2-14-10	6	2-8-9	4	2-20-19	24
48	2-4-10	5	2-14-11	16	2-8-10	5	2-21-8	3
47	2-4-11	6	2-14-15	21	2-8-11	6	2-21-10	6
46	2-4-12	7	2-14-17	23	2-8-12	7	2-21-11	16
45	2-4-15	21	2-14-19	24	2-8-15	21	2-21-15	21
44	2-4-16	22	2-15-8	3	2-8-16	22	2-21-17	23
43	2-4-17	23	2-15-10	6	2-8-17	23	2-21-19	24
42	2-4-18	24	2-15-11	16	2-8-18	24	2-22-8	3
41	2-4-20	25	2-15-15	21	2-8-20	25	2-22-10	6

For loc. of Data # 2 Add (one) To plug-in Location Data 1 Data 2
 2-28 3-28
 TO CM

- NOTE
1. LAST LOGIC NO. USED: 124
 2. IF MARK SENSE INHIBIT IS USED: PIN 3 OF PLUG-IN 1-2 WILL BE RETURNED TO -48V; PIN 18 OF PLUG-INS 2-(1-8) & 3-(1-8) WILL BE RETURNED TO -48V. LOGIC NOS. 101 & 102 WILL BECOME 3P101; LOGIC NOS. 103 & 104 WILL BECOME 3P102.

MODEL 323 CARD READER

ENGRG LOGIC DIAGRAM INFORMATION

FIRST MADE FOR MI 39366 USED ON 85215G1

DESIGNED BY: *R. J. Rehm* ENGINEERED BY: *15 June 1961*

RADIO CORPORATION OF AMERICA CAMDEN, N.J.

COMMODITY CODE: **D 8619092**

DATE: *June 15 1961*

REVISIONS

AP. BY: <i>R. J. Rehm</i>	DATE: <i>June 15 1961</i>	REVISED ECN: <i>11</i>
REVISED ECN: <i>11</i>	DATE: <i>June 15 1961</i>	REVISED ECN: <i>11</i>
REVISED ECN: <i>11</i>	DATE: <i>June 15 1961</i>	REVISED ECN: <i>11</i>
REVISED ECN: <i>11</i>	DATE: <i>June 15 1961</i>	REVISED ECN: <i>11</i>

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8619092

576

