



FUNCTION	INPUT PIN	OUTPUT PIN	PAGE/ZONE	REMARKS
CCK30.H	027		7-4D	CASS TRAN IF
CPSP2.Z	288			CASS TRAN IF
KEYSP4.Z	55			KEYBOARD IF
KRTN.H/	34		8-2D	KEYBOARD IF
MR.G/	273		3-3B	BALL CONTROL IF
PANSWL.TAAB		007	8-3C	BALL CONTROL IF
PBLANK.LA/		083	7-1A	
PBPC17.YAA/	256			
PBPC19.YAA/	028			
PBPC27.YAA/	262			
PBPC29.YAA/	42		5-3B	
PBUF10.FA	40		5-3B, 7-2B	
PBUFA8.FA	67		7-2B	
PBUFMR.G/		49	8-3D	BALL CONTROL IF
PCANSB.G/	75		3-4A	PRINTER MOTOR CONTROL
PCBFCK.G/		257	8-2D	BALL CONTROL IF
PCBUSY.LB/		253	8-2C	BALL CONTROL IF
PCBUSY.LC/		255	8-2C	(NOT USED)
PCCOLI.T/	71		6-4D	PRINTER MOTOR CONTROL
PCDANS.FA	77		3-4B	PRINTER MOTOR CONTROL
PCDAT.Y/	003		3-4C	BALL CONTROL IF
PCDIRC.LA/		293	8-2B	PRINTER MOTOR CONTROL
PCDNEG.GA	24		4-2C	CARRIER CONTROL IF
PCDNOP.G	23		4-2C	CARRIER CONTROL IF
PCDPOS.GA	232		4-2D	CARRIER CONTROL IF
PCDSAB.GA/	277		7-3B	PRINTER MOTOR CONTROL
PCERR.GA	261		9-2A	BALL CONTROL IF
PCFORC.GA	285		9-2B	PRINTER MOTOR CONTROL
PCINT.GOO/		43	8-2D	BALL CONTROL IF
PCLKAH.LA	291		8-3D	PRINTER MOTOR CONTROL
PCLOCE.L	48		9-3A	TEST POINT
PCLOCK.FA	32		7-3D	BALL CONTROL IF
PCLOCK.FA/	33		7-3D	BALL CONTROL IF
PCLOCK.FAC/	275		7-3D	PRINTER MOTOR CONTROL
PCPCNI.G	260		5-2D	TEST POINT
PCPCN2.G	254		5-1C	
PCPCN3.G	50		5-1B	
PCPCN4.G	271		5-1B	
PCPOSE.L	283		9-3B	TEST POINT
PCPOS.G	73		5-4C	PRINTER MOTOR CONTROL
PCRCOM.G/	44		5-4D	BALL CONTROL
PCSEL.GA		289	8-2C	PRINTER MOTOR CONTROL
PCSYNC.G/	69		9-3C	PRINTER MOTOR CONTROL
PCSYNE.L		37	9-3A	TEST POINT
PCTOER.L		270	9-3A	TEST POINT

FUNCTION	INPUT PIN	OUTPUT PIN	PAGE/ZONE	REMARKS
PCTPI.Z		300	8-4A	TEST POINT
PHAMIH.LA/		279	9-1A	BALL CONTROL IF
PLAADC.Z00	20		4-2D	CARRIER CONTROL IF
PLAADC.Z01	19		4-2D	
PLAADC.Z02	18		4-2C	
PLAADC.Z03	17		4-2C	
PLAADC.Z04	9		4-2C	
PLAADC.Z05	8		4-2C	
PLAADC.Z06	47		4-2C	CARRIER CONTROL IF
PMCBSY.GA/	63		7-4B	BALL CONTROL IF
PMDAT.Y/	274		3-3B	BALL CONTROL IF
PMOTS.H/		84	7-1B	PRINTER MOTOR CONTROL
PRHSYN.A	93		7-4D	PRINTER MOTOR CONTROL
PRHTP.A	95		7-4C	PRINTER MOTOR CONTROL
PRSPI.Z	53			BALL CONTROL IF
PRSP3.Z	272			
PRSP4.Z	282			
PRSP5.Z	297			
PRSTE.Y/	259		8-3B	BALL CONTROL IF
PSPACE.LOO/		237	6-1B	BALL CONTROL IF
PSPACE.LA/	6		3-4D	BALL CONTROL IF
PSTCR.Y/	41		9-4D	BALL CONTROL IF
PSTC.Y/	16		9-4D	
PSTM.Y/	22		9-4C	
PSTP.YB	29		9-4C	BALL CONTROL IF
PTNPIT.Z/	45		4-4A	CARRIER CONTROL IF
PULSEO.YA		86	7-1D	BALL CONTROL IF
PULSEO.YBA/		295	7-1D	PRINTER MOTOR CONTROL
PULSE2.YA	89		7-1D	BALL CONTROL IF
PULSE4.H/	80		7-1C	KEYBOARD IF
PULSE4.YA	88		7-1D	BALL CONTROL IF
PULSE8.YA	87		7-1C	
PULSEB.YA	91		7-1C	
PULSEC.YA	90		7-1C	
PULSED.YA	263		7-1C	BALL CONTROL IF
RDO1.GOO/		36	9-3D	BALL CONTROL IF
RDO2.G/		31	9-3C	
RDO3.G/		252	9-2D	
RDO4.G/		30	9-2C	
RDO5.G/		39	9-1D	
RDO6.G/		38	9-1C	
RDO7.G/		25	9-1B	
RDO8.GOO		242	9-1B	
RDO9.GOO		21	9-1B	BALL CONTROL IF
SDO1.A	11		3-4D	BALL CONTROL IF
SDO2.A	10		3-4D	BALL CONTROL IF
SDO3.A	5		3-4D	BALL CONTROL IF

FUNCTION	INPUT PIN	OUTPUT PIN	PAGE/ZONE	REMARKS
SDO4.A	4		3-4D	BALL CONTROL IF
SDO5.A	15		3-4D	
SDO6.A	14		3-4C	
SDO7.A	13		3-4C	
SDO8.A	12		3-4C	
SDO9.A	26		3-4C	BALL CONTROL IF
+5 VOLTS	001			PROCESSOR (BUSSED)
+5 VOLTS	002			
+5 VOLTS	201			
+5 VOLTS	202			PROCESSOR (BUSSED)
+12 VOLTS	052			
+12 VOLTS	051			
GROUND		35	4-2D	PRINTER MOTOR CONTROL
		46	4-4A	
		70	9-3C	
		72	6-4D	
		74	5-4C	
		76	3-4A	
		78	3-4B	
		85	7-1B	
		94	7-4D	
		96	7-4C	PRINTER MOTOR CONTROL
		101		PROCESSOR (BUSSED)
		102		PROCESSOR (BUSSED)
		276	7-3D	PRINTER MOTOR CONTROL
		278	7-3A	
		286	9-2B	
		290	8-2C	
		292	8-3D	
		294	8-3B	
		296	7-1D	PRINTER MOTOR CONTROL
	301			PROCESSOR (BUSSED)
GROUND	302			PROCESSOR (BUSSED)

CLASS MODEL EFFECTIVITY
095-0300972

NOTES:
SIMILAR PARTS:
CHANGES: (A) NEW (B) PIN 237 WAS AN INPUT FOR LOGIC TERM PSPACE.LOO/.

STD. QUALITY SEE SP004.15
CLASS M41-3-359-99
START 4-72 FINISH 4-28-72
DESIGNER A ZIMMERMAN
APPR: []
SUPERSEDES 095-0300969 CODE 2-5550

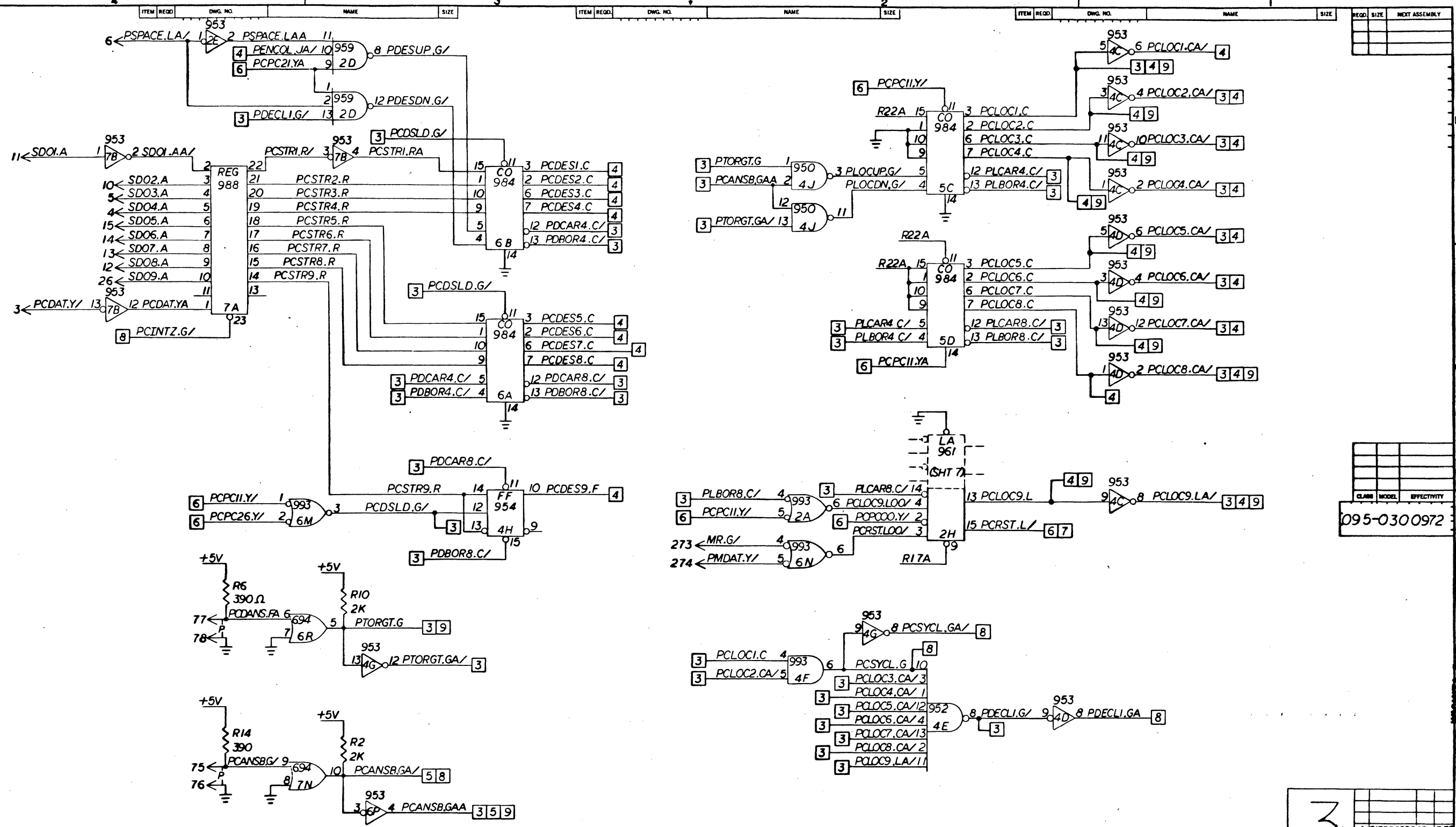
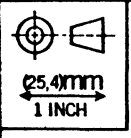
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES UNLESS INDICATED OTHERWISE.
MATERIAL: []
COATING: []
FINISH: []
HEAT TREAT: []
HARDNESS: []

THE NATIONAL CASH REGISTER CO. DAYTON, OHIO
UNIT BALL PRINTER MECHANISM
SCHEMATIC - LOGIC (PIN SUMMARY)
SHEET 2 OF 9
SCALE 1:1
095-0300972
CODE 2-5550

2 (B) 46ER00264 JS 1-73
(A) DIER36699 GRW 1-72
REV RELEASE NO. DATE

WICHTA FILE

FIELD PRINT



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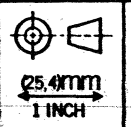
CLASS	MODEL	EFFECTIVITY
095-0300972		

NOTES
SIMILAR PARTS
CHANGES (A)

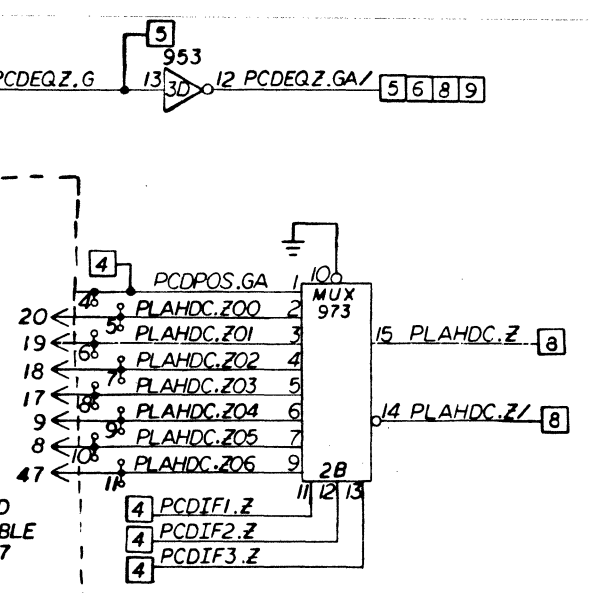
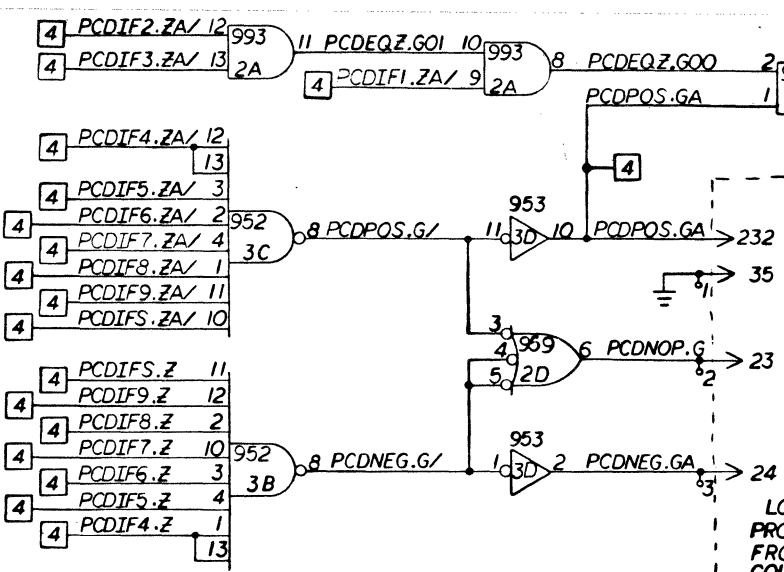
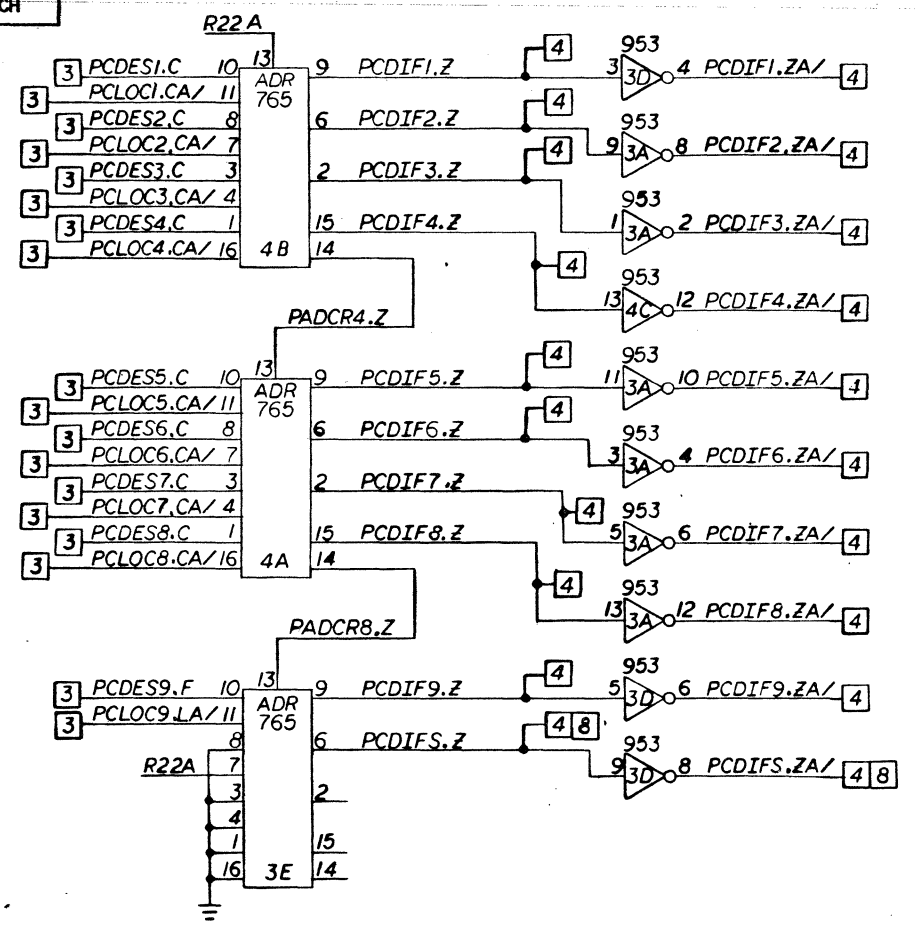
3	REV	RELEASE NO	DFTS	DATE

STD. QUALITY SEE SP404-15		CLASS M 41-3-399-99		NCR THE NATIONAL CASH REGISTER CO. DAYTON, OHIO	
START: 7-72	FINISH: 7-72	UNIT: BALL PRINTER MECHANISM	UNLESS OTHERWISE SPECIFIED, DIMENSIONAL LIMITS ARE HIGH NOMINAL.		
DFTS: SJF	CHKR:	NAME: SCHEMATIC-LOGIC	XX = 02		
DESIGNER: A. ZIMMERMAN	APP: 103		SHEET 3 OF 9		
SLPSD. BY:	SCALE: ~	095-0300972			
1. PERSECT: 095-0300972		2. 9560			

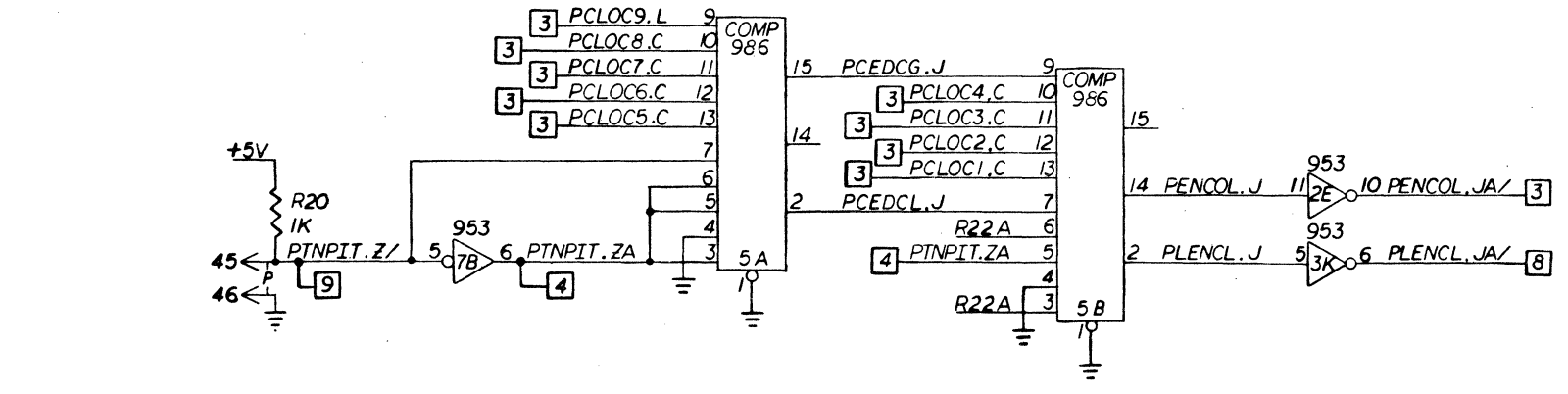
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ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	REV.	SIZE	NEXT ASSEMBLY



LOOKAHEAD PROGRAMMABLE FROM 1 TO 7 COLUMNS
SEE CHART FOR WIRING SEQUENCE



LOOKAHEAD PINS	BACKPANEL INTERCONNECTIONS FOR PROGRAMMABLE LOOKAHEAD						
	ONE COLUMN	TWO COLUMNS	THREE COLUMNS	FOUR COLUMNS	FIVE COLUMNS	SIX COLUMNS	SEVEN COLUMNS
20	PIN 232	PIN 232	PIN 232	PIN 232	PIN 232	PIN 232	PIN 23
19	PIN 35	PIN 20	PIN 20	PIN 20	PIN 20	PIN 23	PIN 20
18	PIN 19	PIN 35	PIN 19	PIN 19	PIN 23	PIN 19	PIN 19
17	PIN 18	PIN 18	PIN 35	PIN 23	PIN 18	PIN 18	PIN 18
9	PIN 17	PIN 17	PIN 24	PIN 24	PIN 17	PIN 17	PIN 17
8	PIN 9	PIN 24	PIN 9	PIN 9	PIN 24	PIN 9	PIN 9
47	PIN 24	PIN 8	PIN 8	PIN 8	PIN 8	PIN 24	PIN 8

FOR LOOKAHEAD WIRE PINS IN COL A TO PINS IN COL FOR DESIRED LOOKAHEAD.

095-0300972

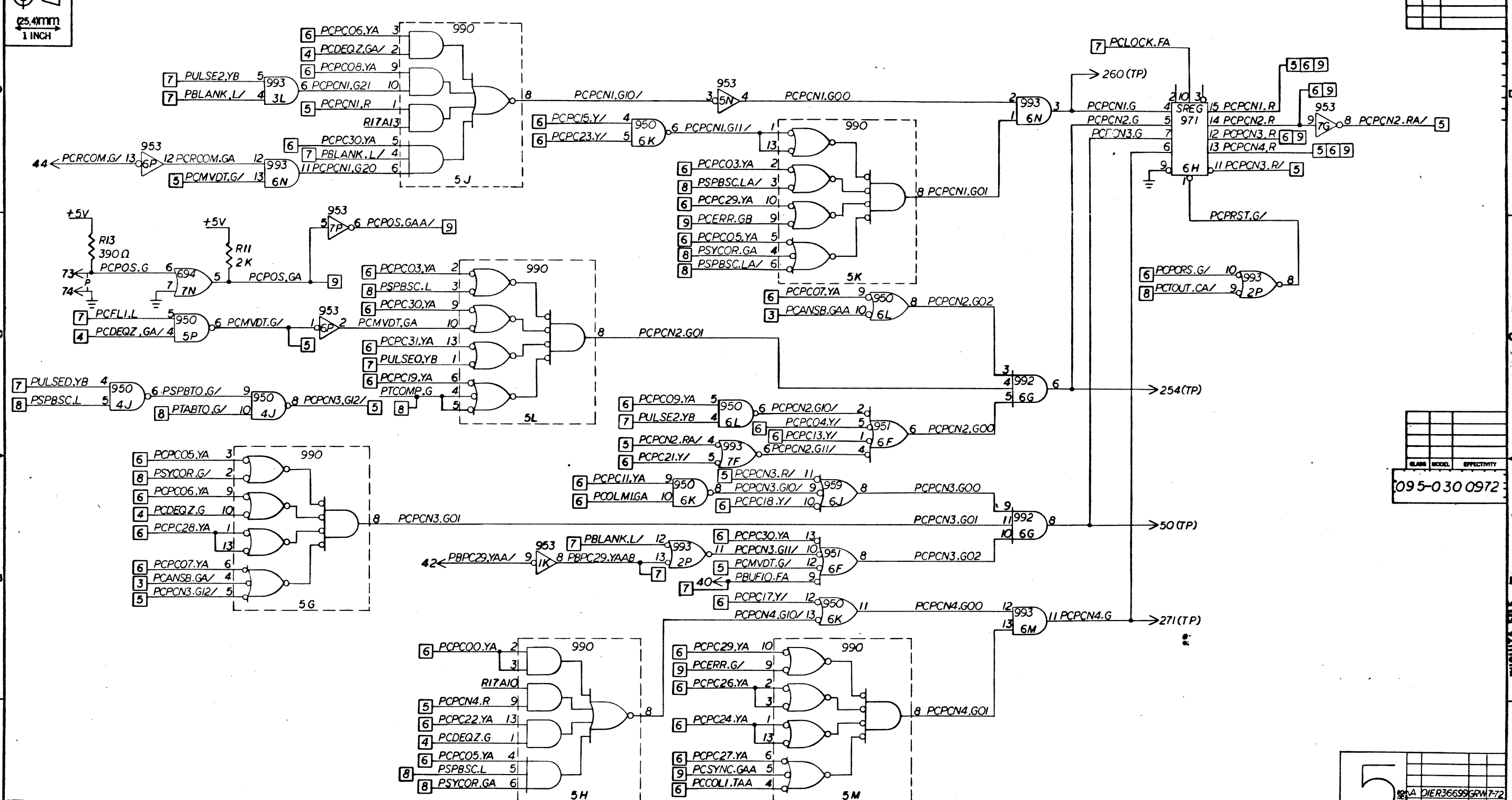
NOTES:
SIMILAR PARTS: ---
CHANGES (A): ---

4
DIER36699RW72
REV. RELEASE NO. DFTS. DATE

STD. QUALITY SEE SPA04 15		CLASS M 41-3-399-99		UNIT BALL PRINTER MECHANISM	
START: 7-72 FINISH: 7-82		DFTS: SJF		NAME: SCHEMATIC-LOGIC	
DESIGNER: A. ZIMMERMAN		APPROV: [Signature]		SHEET 4 OF 9	
SHEET 4 OF 9		SCALE: ~		095-0300972	
SUPERSEDES 095-0300968		CODE: 2-9560		FIELD PRINT	

FIELD PRINT

ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	REQD.	SIZE	NEXT ASSEMBLY



CLASS	MODEL	EFFECTIVITY
095-030	0972	

NOTES:
 SIMILAR PARTS: - - -
 CHANGES (A)

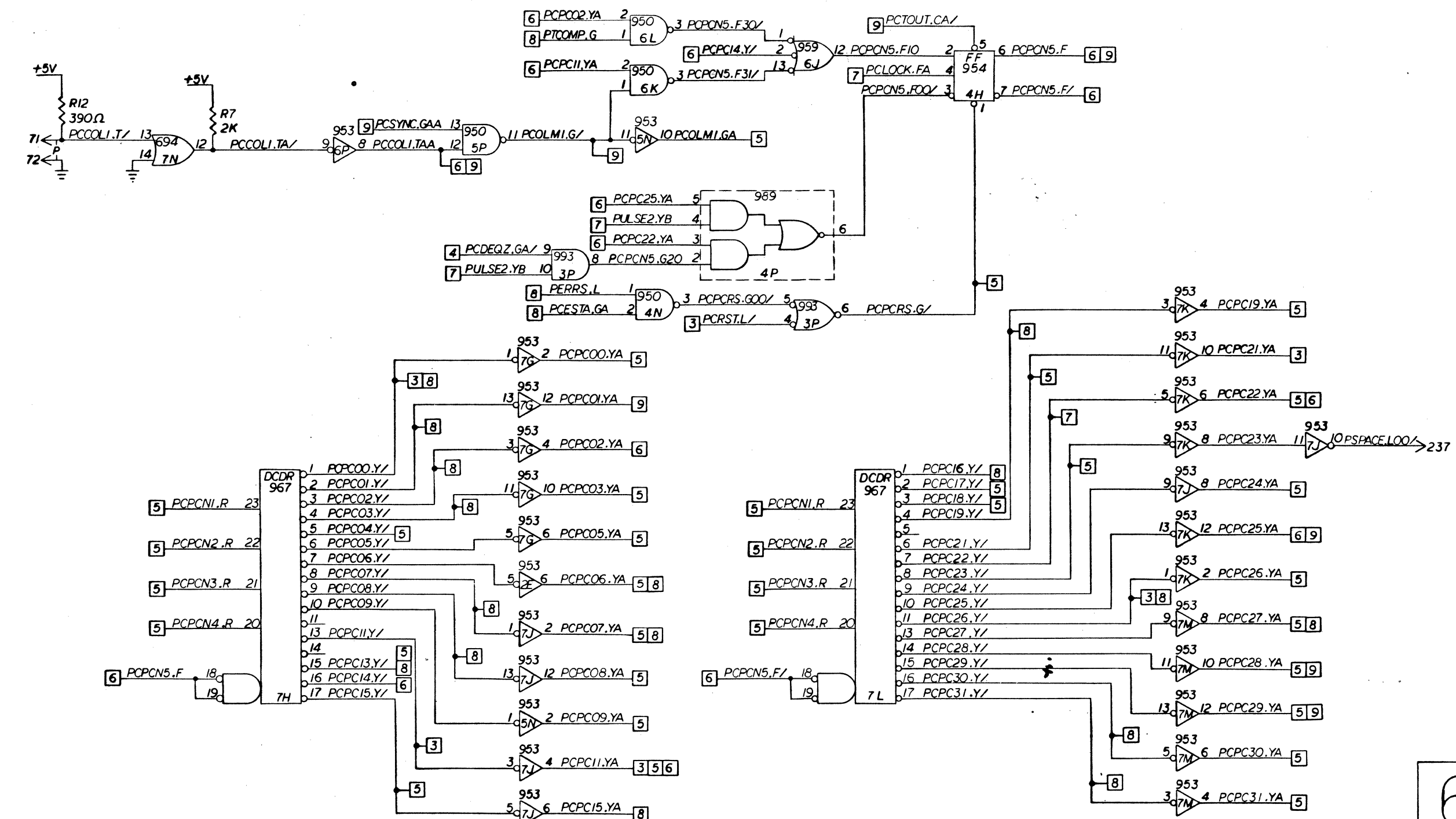
THIS DRAWING AND INFORMATION THEREON IS THE PROPERTY OF THE NATIONAL CASH REGISTER COMPANY AND ALL UNAUTHORIZED USE AND REPRODUCTION IS PROHIBITED.		N.C.R. THE NATIONAL CASH REGISTER CO. DAYTON, OHIO	
STD. QUALITY SEE SP004.15 CLASS M 41-3-399-99	START: 7-72 FINISH: 7-19-72 DFTS: SJF CHKR/102	UNIT: BALL PRINTER MECHANISM NAME: SCHEMATIC-LOGIC DESIGNER: A. ZIMMERMAN (CARRIER CONTROL INTERFACE)	SHEET 5 OF 9 SCALE: ~ CODE: 29560
MATERIAL: COATING: BRACE: HEAT TREAT: HARDNESS:	UNLESS OTHERWISE SPECIFIED, DIMENSIONAL LIMITS ARE: XX = .02 XXX = .005	SUPD. BY: SUPERSEDES 095-030053	095-0300972

5	DIER36699GRW7-72
REV.	RELEASE NO. DFTS. DATE

FIELD PRINT



ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	REQD.	SIZE	NEXT ASSEMBLY



CLASS	MODEL	EFFECTIVITY

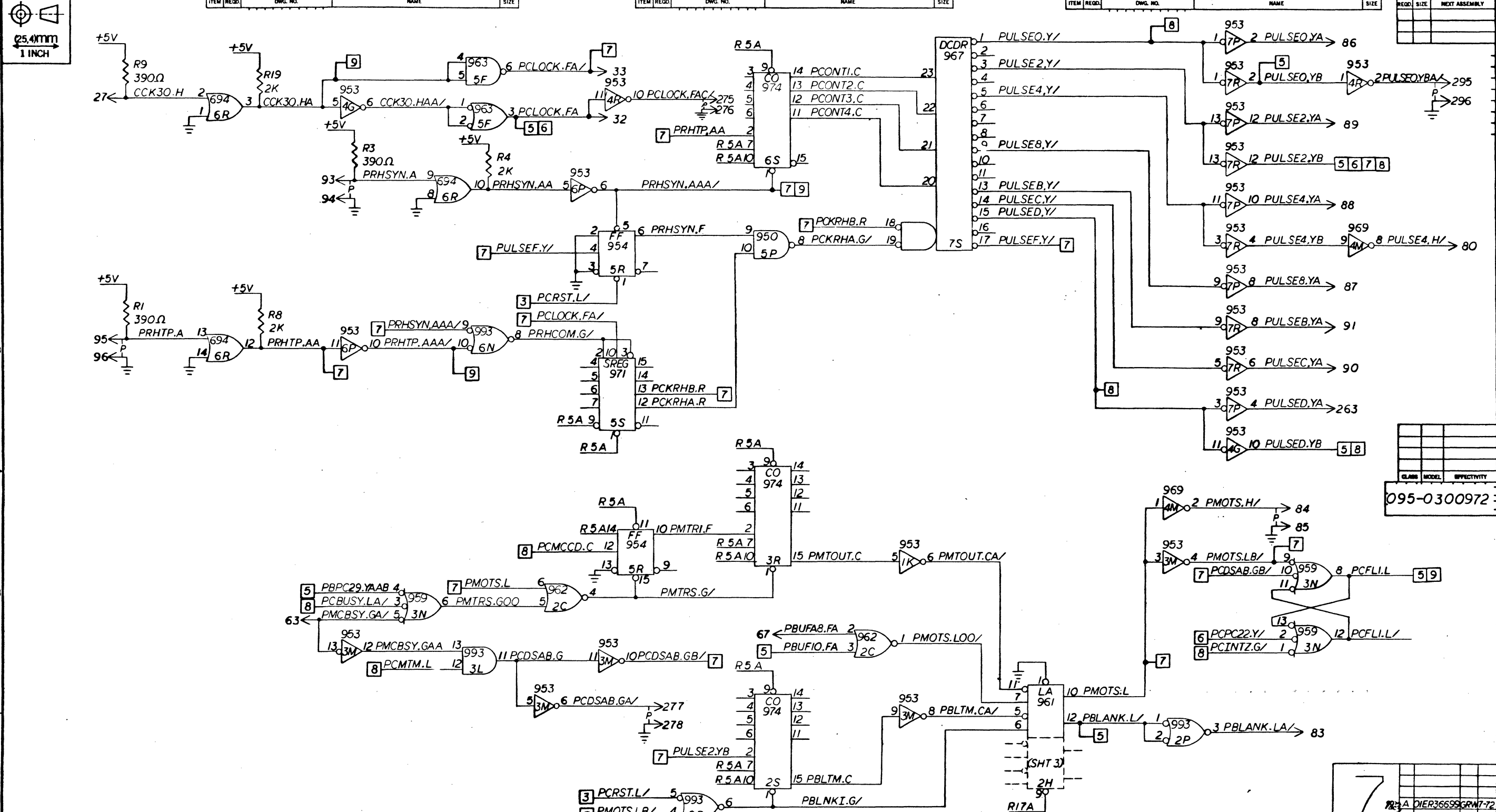
095-0300972

NOTES:
 SIMILAR PARTS: - - -
 CHANGES (A)

THIS DRAWING AND INFORMATION THEREON IS THE PROPERTY OF THE NATIONAL CASH REGISTER COMPANY AND ALL UNAUTHORIZED USE AND REPRODUCTION IS PROHIBITED.		NCR THE NATIONAL CASH REGISTER CO. DAYTON, OHIO	
STD. QUALITY SEE SP4004 IS CLASS: M 41-3-399-99	START: 7-72 FINISH: 7-19-72 UNIT: BALL PRINTER MECHANISM	DFTS: SJF CHKD: NAME: SCHEMATIC-LOGIC	DESIGNER: A. ZIMMERMAN (CARRIER CONTROL INTERFACE)
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. XX = .02 XXX = .005	MATERIAL: COATING: BRAZE: HEAT TREAT: HARDNESS: 	APPR: ACB APPD: SHEET 6 OF 9	SCALE:
SUPERSEDES: 095-0300969 DATE: 2-9-55		095-0300972	

6
 A DIER36699GRW72
 REV. RELEASE NO. DFTS. DATE

ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	REQD.	SIZE	NEXT ASSEMBLY



NOTES:
SIMILAR PARTS: — — — —

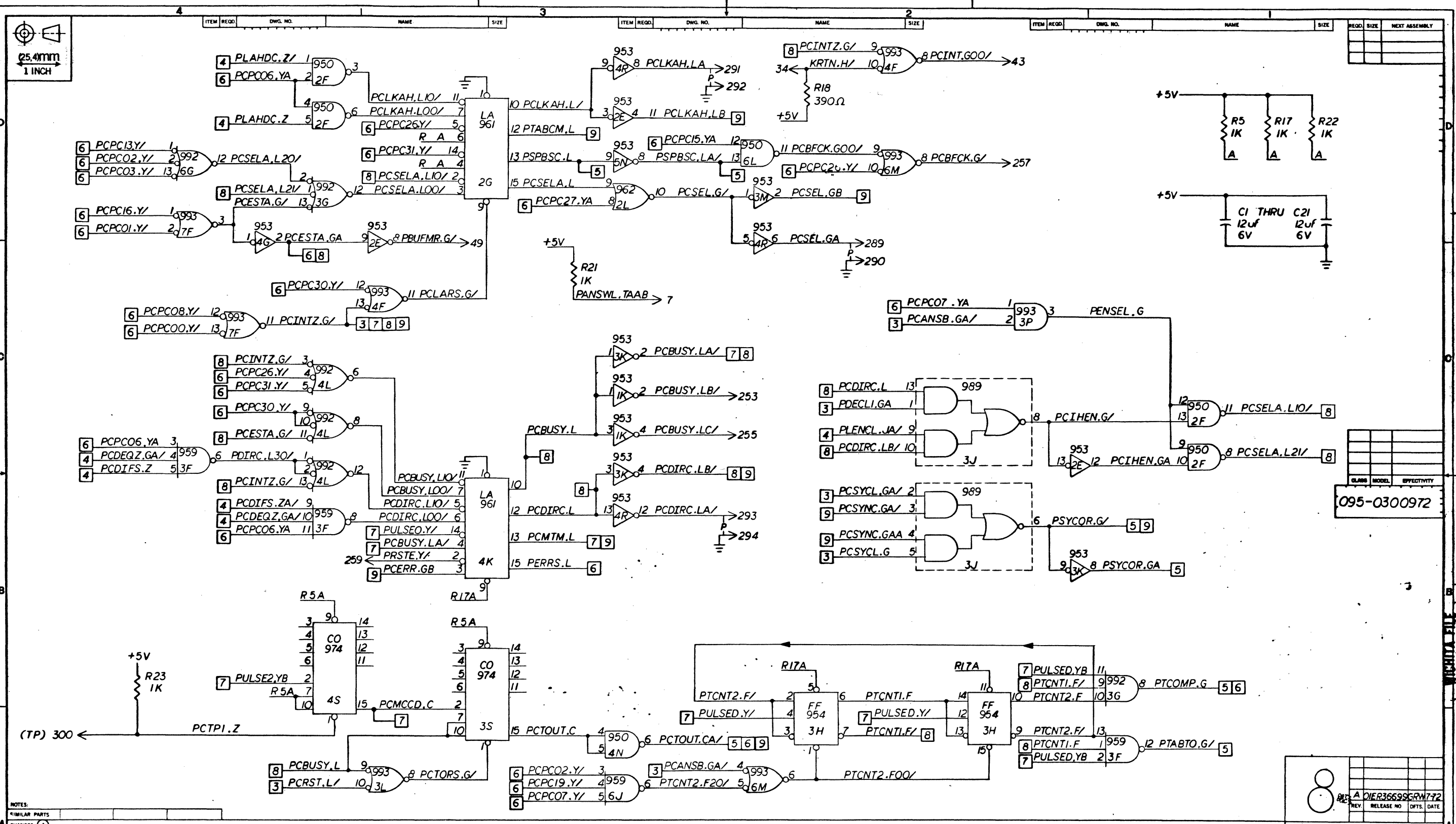
CHANGES (A)

CLASS MODEL EFFECTIVITY
095-0300972

7			
72-A DIER36699GRW7-72			
REV.	RELEASE NO.	DFTS.	DATE

STD. QUALITY SEE SP4004 IS		CLASS M 41-3-399-99		N.C.R. THE NATIONAL CASH REGISTER CO DAYTON, OHIO	
START: 7-72	FINISH: 7-72	UNIT BALL PRINTER MECHANISM		NAME SCHEMATIC-LOGIC	
DFTS: SJF	CHRR: ACC				
DESIGNER: A. ZIMMERMAN	APPR: ACC	SCALE 7 OF 9		095-0300972	
SUPD. BY:	SCALE:	29560			
MATERIAL:		UNLESS OTHERWISE SPECIFIED, DIMENSIONAL LIMITS ARE: HIGH NORMAL		XX = .02 XXX = .005	
COATING:					
BRAZE:					
HEAT TREAT:					
HARDNESS:					

FIELD PRINT



REQD.	SIZE	NEXT ASSEMBLY

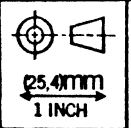
CLASS	MODEL	EFFECTIVITY

095-0300972

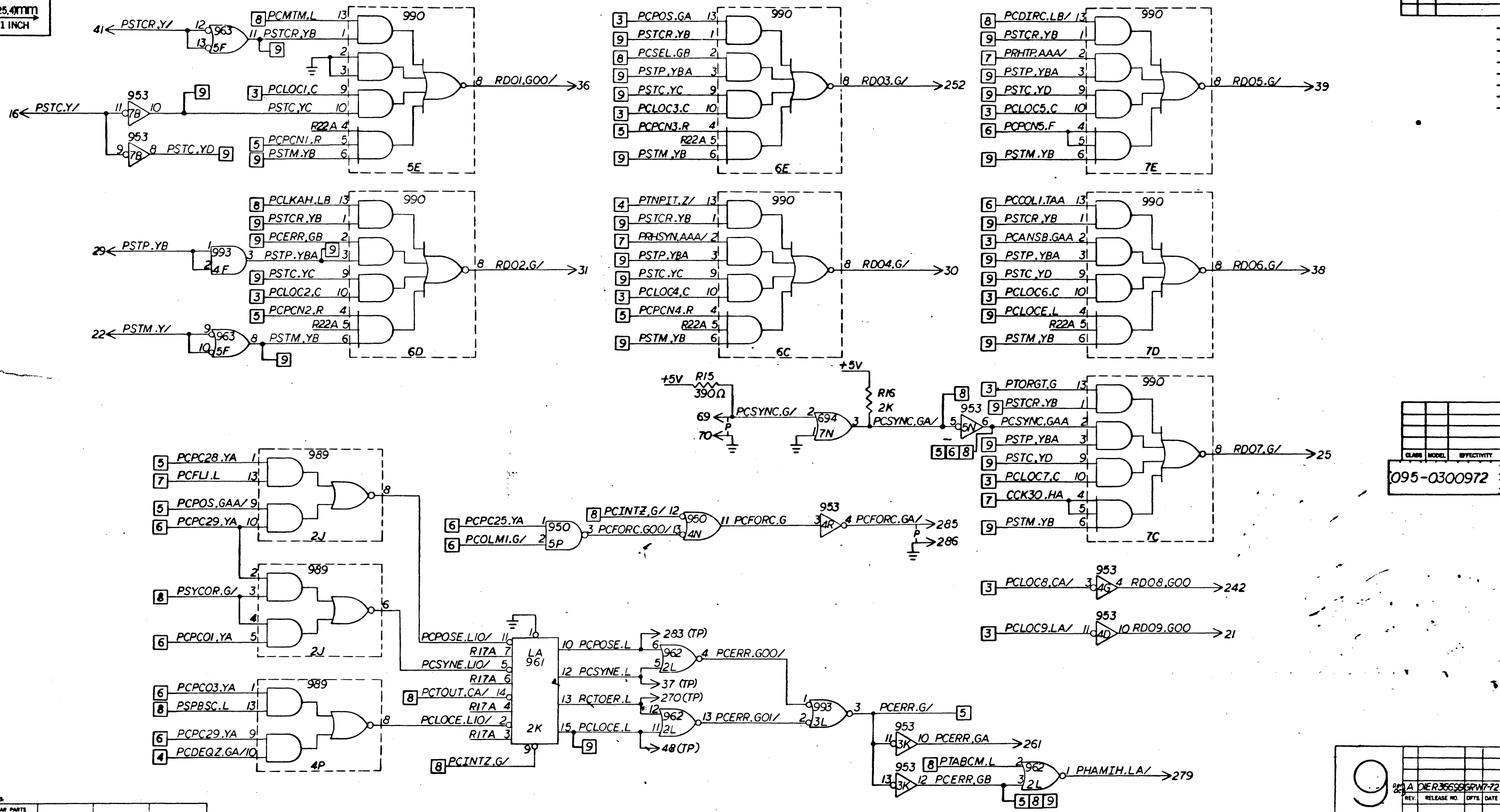
NOTES:
 SIMILAR PARTS
 CHANGES (A)

STD QUALITY SEE SP404 15 CLASS: M41-3-399-99 START: 7-72 FINISH: 7-19-72 DFTS: GRW CHR: LCZ DESIGNER: A. ZIMMERMAN APPD: [Signature] APPD: [Signature] SUPD BY: [Signature] SUPERSEDES 095-0300968		THE NATIONAL CASH REGISTER CO. DAYTON, OHIO UNIT: BALL PRINTER MECHANISM NAME: SCHEMATIC-LOGIC (CARRIER CONTROL INTERFACE) SHEET 8 OF 9 SCALE: ~ 095-0300972 CODE 2-9550	
MATERIAL		UNLESS OTHERWISE SPECIFIED, DIMENSIONAL LIMITS ARE HIGH-NOMINAL	
COATING			
BRAZE			
HEAT TREAT			
HARDNESS			

FIELD PRINT



ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	ITEM	REQD.	DWG. NO.	NAME	SIZE	REQD.	SIZE	NEXT ASSEMBLY



CLASS MODEL EFFECTIVITY
095-0300972

NOTES:
SIMILAR PARTS
CHANGES (A)

9
REV. RELEASE NO. DFTS. DATE
A DIER366SGPW72

STL. QUALITY SEE SP004 15	CLASS: M41-3-399-99	NCR THE NATIONAL CASH REGISTER CO. DAYTON, OHIO
START: 7-72 FINISH: 7-18-72	UNIT: BALL PRINTER MECHANISM	NAME: SCHEMATIC-LOGIC
DFTS: GRW CHK: JJC	DESIGNER: A. ZIMMERMAN	(CARRIER CONTROL INTERFACE)
APPRO: JJC	APPRO: JJC	SHEET 9 OF 9
SUPD BY:	SCALE: ~	095-0300972
SUPERSEDES: 095-0300969	CODE: 2-3550	

FIELD PRINT

WICHTA FILE