

DRAWINGS AND PARTS MANUAL

KP95, KP96 and KP97

Intercom Keypanels

EKP95, EKP96 and EKP97

Expansion Keypanels

NOTE: This manual does not apply to the KP95R-00 Keypanel. Refer to the KP95R-00 Drawings Manual, part number 9300-7122-000.

RTS™

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SECTION 1

KEYPANEL DRAWINGS

LIST OF WIRING DIAGRAMS AND CONNECTOR PIN-OUTS

Drawing No.	Title
IKP-950/2-5	Keypanel Wiring Diagram
IKP-950/2-6	Optional KP-96-RC Rear Connector Plate Wiring Diagram
EKP-940E/2-1	Expansion Panel Wiring Diagram
IKP-950/8-3	Keypanel Connector Layout
IKP-950/8-4	Matrix Connector Wiring Detail
IKP-950/2-7	KP95 and KP96 (Carling) Talk Keys 1-8 Wiring Diagram
IKP-950/2-8	KP95 and KP96 (Carling) Talk Keys 9-16 Wiring Diagram
LKA-1A/2-1	KP97 (TMC) Talk Key (1-8) Assembly Wiring Schematic
LKA-2B/2-1	KP97 (TMC) Talk Key (9-16) Assembly Wiring Schematic

LIST OF SCHEMATIC DIAGRAMS

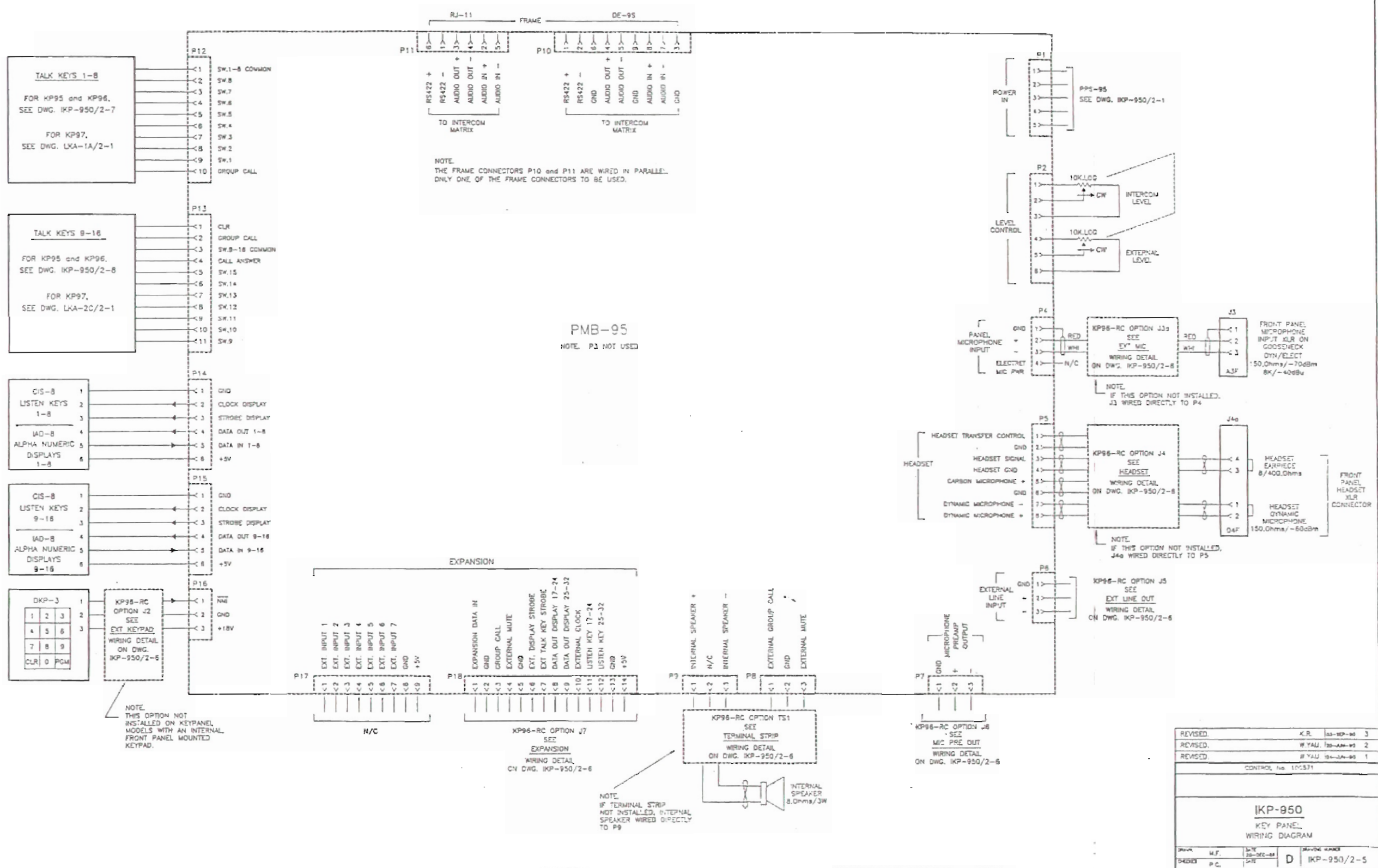
Drawing No.	Title
DKP-3/2-1	Keypad Schematic
IAD-8/CIS-8/2-1	Alpha 1-8 (or 9-16) Display and Listen Key 1-8 (or 9-16) Schematic
IAD-8B/CIS-8B/2-1	LED 9-15 + 1 Alpha Display and Listen Key 9-16 Schematic
IAD-8E/CIS-8/2-1	Expansion Panel Display/Listen Key Schematic
IDD-8A/CIS-8/2-1	LED 1-8 and Listen Key 1-8 Schematic
IKP-950/2-1	Panel Motherboard Schematic (Sheet 1 of 4)
IKP-950/2-2	Panel Motherboard Schematic (Sheet 2 of 4)
IKP-950/2-3	Panel Motherboard Schematic (Sheet 3 of 4)
IKP-950/2-4	Panel Motherboard Schematic (Sheet 4 of 4)
PIB-32-3468/2-1	Expansion Panel Pushbutton Interface Board Assembly
PPS-5/2-1	Expansion Panel Power Supply Schematic
PPS-95/2-1	Keypanel Power Supply Schematic

LIST OF CIRCUIT BOARD COMPONENT LAYOUTS

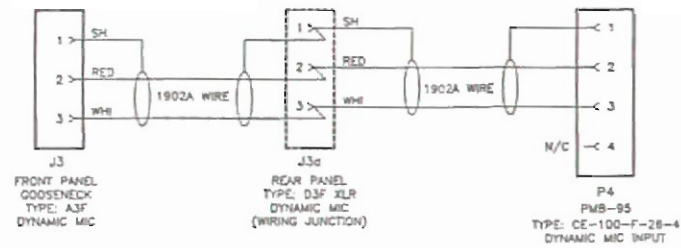
Drawing No.	Title
CIS-8/8-1	Listen Key Assy Component Layout
DKP-3/8-1	Keypad Assy Component Layout
IAD-8/8-1	8-Alpha Display Board Component Layout
IAD-8B/8-1	7-LED + 1-Alpha Display Board Component Layout
IAD-8E/8-1	Expansion Panel Display Board Component Layout
IDD-8A/8-1	8-LED Display Board Component Layout
PIB-32-3468/8-2	Expansion Panel Pushbutton Interface Board Assembly
PMB-95/8-1	Keypanel Motherboard Component Layout
PPS-5/8-1	Expansion Panel Power Supply Board Component Layout

LIST OF ASSEMBLY DRAWINGS

Drawing No.	Title
DKP-3/8-3	Speaker/Keypad Assembly Drawing
IAD-8/8-3	Alpha 1-8 (or 9-16) Display and Listen Key 1-8 (or 9-16) Assembly Drawing
IAD-8B/8-3	LED 9-15 + 1 Alpha Display and Listen Key 9-16 Assembly Drawing
IDD-8A/8-3	LED 1-8 and Listen Key 1-8 Assembly Drawing

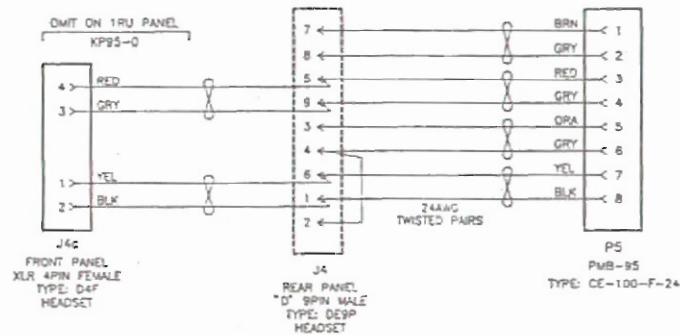


J3. EXT MIC IN



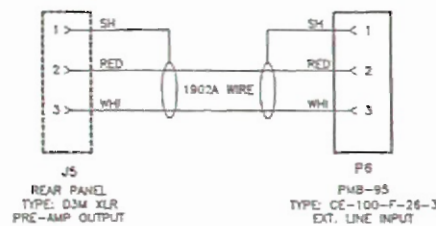
NOTE: IF THIS OPTION NOT INSTALLED, J3 CONNECTS DIRECTLY TO P4

J4. HEADSET

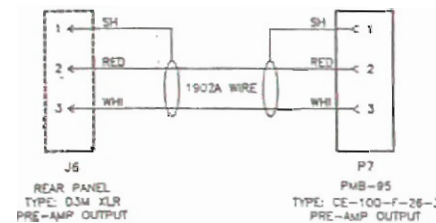


NOTE: IF THIS OPTION NOT INSTALLED, J4c CONNECTS DIRECTLY TO P5

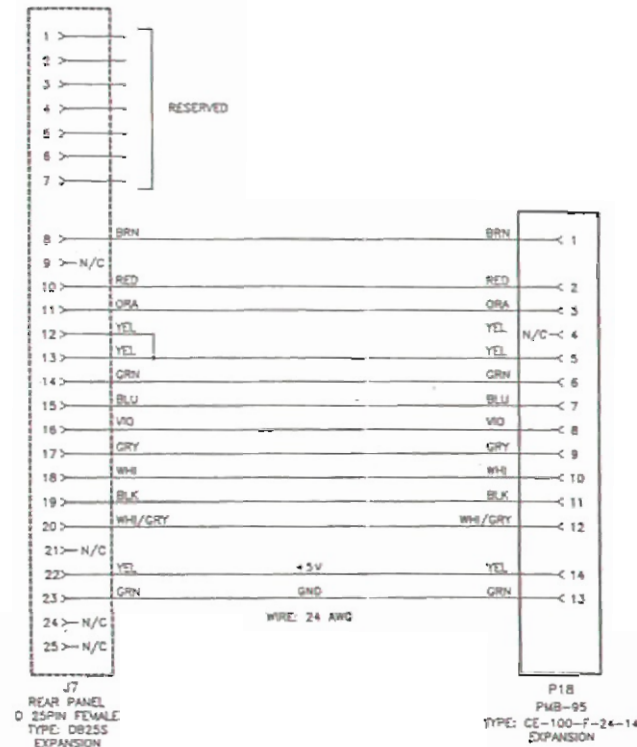
J5. EXT LINE IN



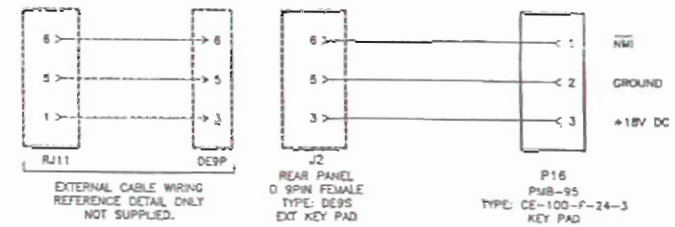
J6. MIC PRE OUT



J7. EXPANSION

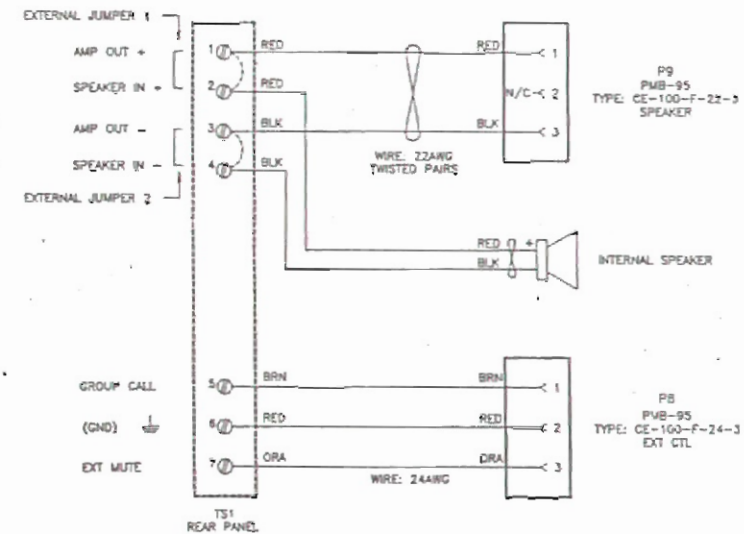


J2. EXT KEYPAD



NOTE: 1. IF KEYPAD HAS INTERNAL KEYPAD THIS OPTION IS NOT INSTALLED.
2. THE EXTERNAL KEYPAD USES MBI MODEL DKP-840 ONLY.

TS1. TERMINAL STRIP

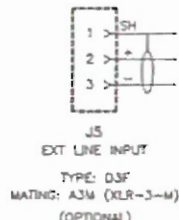


NOTE: IF THIS OPTION NOT INSTALLED, THE INTERNAL SPEAKER OF THE KEYPAD IS CONNECTED DIRECTLY TO P9.

REVISED	P.C. 10-10-81 REV 3
REVISED	P.C. 10-10-81 REV 2
ORIGINAL DRAFT	10-10-81 REV 1
CONTROL No. 101097	
KP98 - RC	
REAR CONNECTOR OPTION WIRING DIAGRAM	
Drawn M.F.	DATE 10-10-81
Checked M.Y.	DATE 10-10-81
D KP-950/2-6	

- 1 +20VDC INPUT (UNREGULATED)
- 2 -20VDC INPUT (UNREGULATED)
- 3 T1 SECONDARY (WINDING ONE)
- 4 T1 SECONDARY (WINDING TWO)
- 5 CHASSIS GROUND

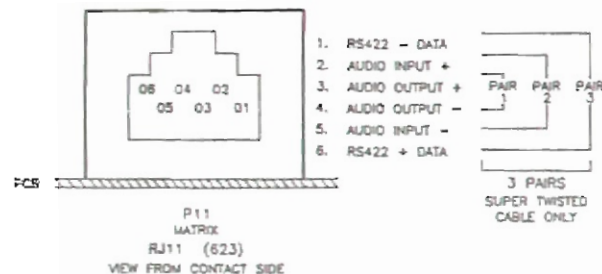
P1
POWER IN
TYPE: MLSS-100-5
MATING: CE-100-F-22-5



J5
EXT LINE INPUT
TYPE: D3F
MATING: AJM (XLR-3-M)
(OPTIONAL)

- 1 GROUND, SHIELD
- 2 AUDIO INPUT +
- 3 AUDIO INPUT -

P6
EXT IN (LINE LEVEL)
TYPE: MLSS-100-3
MATING: CE-100-F-26-3
(OPTIONAL)



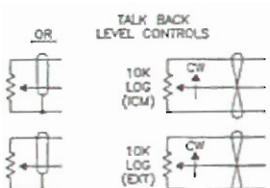
P11
MATRIX
RJ11 (623)
VIEW FROM CONTACT SIDE

- 1 GROUND
- 2 CLOCK, DISPLAY
- 3 STROBE, DISPLAY
- 4 DATA OUT 1-8 DISPLAY
- 5 DATA IN 1-8 LISTEN KEYS
- 6 +5VDC

P14
WD 1-8
DISPLAY 1-8 LISTEN KEYS 1-8
TYPE: MLSS-100-6
MATING: CE-100-F-24-6

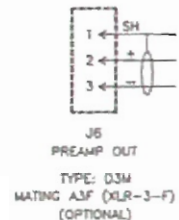
- 1 SERIAL DATA INPUT
- 2 GROUND
- 3 GROUP CALL CONTROL (UP POSITION OF TALK KEYS)
- 4 EXTERNAL MUTE OUTPUT (2MA MAX)
- 5 GROUND
- 6 EXT DISPLAY STROBE
- 7 EXT TALK KEY STROBE
- 8 DATA OUT DISPLAY 17-24
- 9 DATA OUT DISPLAY 25-32
- 10 EXT CLOCK
- 11 LISTEN KEYS 17-24 DATA
- 12 LISTEN KEY 25-32 DATA
- 13 GROUND
- 14 +5VDC

P18
EXPANSION
TYPE: MLSS-100-14
MATING: CE-100-F-24-14 (OPTIONAL)



P2
ATTN
TYPE: MLSS-100-8
MATING: CE-100-F-24-8

- 1 SIGNAL OUT (INTERCOM)
- 2 SIGNAL IN (INTERCOM)
- 3 SIGNAL COMMON (VIA RV202)
- 4 SIGNAL OUT (EXTERNAL)
- 5 SIGNAL IN (EXTERNAL)
- 6 SIGNAL COMMON (VIA RV204)



J6
PREAMP OUT
TYPE: D3M
MATING: AJF (XLR-3-F)
(OPTIONAL)

- 1 GROUND, SHIELD
- 2 AUDIO OUTPUT +
- 3 AUDIO OUTPUT -

P7
PREAMP OUT
TYPE: MLSS-100-3
MATING: CE-100-F-26-3 (OPTIONAL)

- 1 GROUND, CONTROL COMMON
- 2 SWITCH 8
- 3 SWITCH 7
- 4 SWITCH 6
- 5 SWITCH 5
- 6 SWITCH 4
- 7 SWITCH 3
- 8 SWITCH 2
- 9 SWITCH 1
- 10 GROUP CALL COMMON (UP POSITION OF KEYS)

P12
TALK KEYS 1-8 CONTROLS
TYPE: MLSS-100-10
MATING: CE-100-F-24-10

- 1 GROUND
- 2 CLOCK, DISPLAY
- 3 STROBE, DISPLAY
- 4 DATA OUT 9-16 DISPLAY
- 5 DATA IN 9-16 LISTEN KEYS, HOST. SW.
- 6 +5VDC

P15
WD 9-16
DISPLAY 9-16 LISTEN KEYS 9-16 HOST SWITCH
TYPE: MLSS-100-9
MATING: CE-100-F-24-9

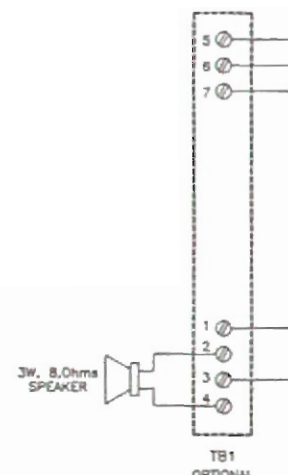
- 1 EXT INPUT 1
- 2 EXT INPUT 2
- 3 EXT INPUT 3
- 4 EXT INPUT 4
- 5 EXT INPUT 5
- 6 EXT INPUT 6
- 7 EXT INPUT 7
- 8 EXT INPUT 8
- 9 EXT INPUT 9
- 10 EXT INPUT 10
- 11 EXT INPUT 11
- 12 EXT INPUT 12
- 13 EXT INPUT 13
- 14 EXT INPUT 14
- 15 EXT INPUT 15
- 16 EXT INPUT 16
- 17 EXT INPUT 17
- 18 EXT INPUT 18
- 19 EXT INPUT 19
- 20 EXT INPUT 20
- 21 EXT INPUT 21
- 22 EXT INPUT 22
- 23 EXT INPUT 23
- 24 EXT INPUT 24
- 25 EXT INPUT 25

J7
EXPANSION
TYPE: DB25S (FEMALE)
MATING: DB25P (MALE CABLE)
(OPTIONAL)
* NOT USED RESERVED PIN ONLY

P3
NOT USED

- 1 EXT. GROUP CALL CONTROL
- 2 GROUND, CONTROL COMMON
- 3 EXT. MUTE CONTROL OUTPUT (2MA, MAX)

P8
EXT. CTL
TYPE: MLSS-100-3
MATING: CE-100-F-24-3 (OPTIONAL)



- 1 AUDIO OUTPUT +, TO LOUSPEAKER
- 2 N/C
- 3 GROUND, AUDIO COMMON TO LOUSPEAKER

P9
SPEAKER
TYPE: MLSS-100-3
MATING: CE-100-F-22-3

- 1 CLEAR CALL WAITING, CONTROL
- 2 GROUP CALL COMMON (UP POSITION OF KEYS)
- 3 GROUND, CONTROL COMMON
- 4 CALL WAITING ANSWER, CONTROL
- 5 SWITCH 15
- 6 SWITCH 14
- 7 SWITCH 13
- 8 SWITCH 12
- 9 SWITCH 11
- 10 SWITCH 10
- 11 SWITCH 9

P13
TALK KEYS 9-16 CONTROLS
TYPE: MLSS-100-11
MATING: CE-100-F-24-11

- 1 N.M.I.
- 2 GROUND
- 3 +18VDC

P16
KEY PAD (DKP-2) OR (DKP-3)
TYPE: MLSS-100-3
MATING: CE-100-F-24-3

- 1 EXP INPUT 1
- 2 EXP INPUT 2
- 3 EXP INPUT 3
- 4 EXP INPUT 4
- 5 EXP INPUT 5
- 6 EXP INPUT 6
- 7 EXP INPUT 7
- 8 GROUND
- 9 +5VDC

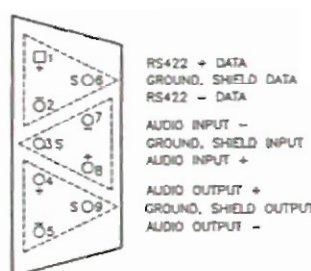
P17
EXP (EXPANSION INPUTS)
TYPE: MLSS-100-9
MATING: CE-100-F-24-9 (OPTIONAL)

- 1 GROUND
- 2 SIGNAL +
- 3 SIGNAL -
- 4 ELECTRET MIC

P4
PANEL
TYPE: MLSS-100-4
MATING: CE-100-F-26-4

- 1 MANUAL HEADSET TRANSFER CONTROL
- 2 GROUND HEADSET TRANSFER CONTROL
- 3 AUDIO OUTPUT TO EARPICCE
- 4 GROUND, SHIELD, COMMON TO EARPICCE
- 5 CARBON MIC INPUT +
- 6 GROUND, SHIELD, COMMON TO CARBON MIC
- 7 DYNAMIC MIC INPUT -
- 8 DYNAMIC MIC INPUT +

P5
HOST
TYPE: MLSS-100-8
MATING: CE-100-F-24-8

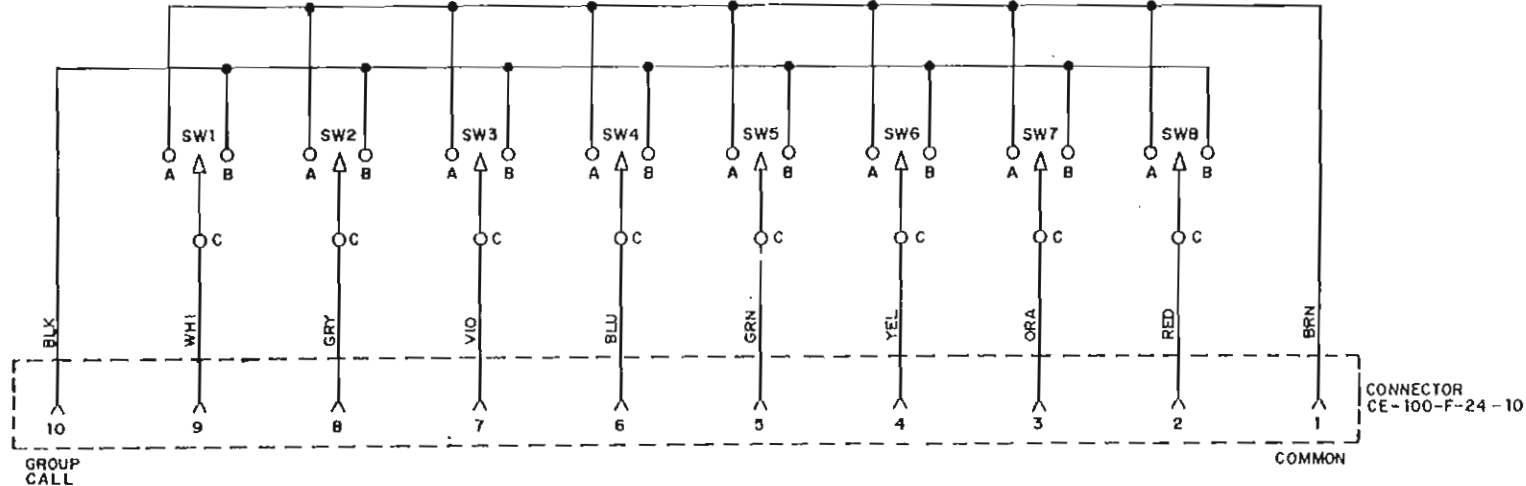


P10
MATRIX
TYPE: DE9S (FEMALE)
MATING: DE9P (MALE, CABLE)

FRONT PANEL
HOST
TYPE: D4F
MATING: A4M
(DT108)

J4
REAR PANEL
HOST
TYPE: DE9P
MATING: DE9S
(OPTIONAL)

REVISED	28-AUG-82	4
REVISED	W.YAL. 21-JUN-83	3
REVISED	W.YAL. 05-JUN-83	2
CONTROL No. 100752		
IKP-850		
KEY PANEL		
CONNECTOR LAYOUT		
DATE	W.Y.	DATE
DESIGNED	W.YAL.	DATE
D IKP-950/8-3		

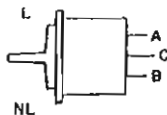


NOTES: (1) ALL WIRES ARE 24 AWG.

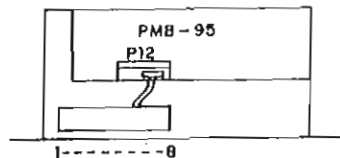
(2) SWITCHES ARE CARLING TYPE.

(3) SWITCHES FOR LEVER KEYS 1-8
USED WITH KP95, KP96 AND
EXPANSION PANELS.

TOP OF PANEL
SW1-8



(UP) L = C-B
(DOWN) NL = C-A

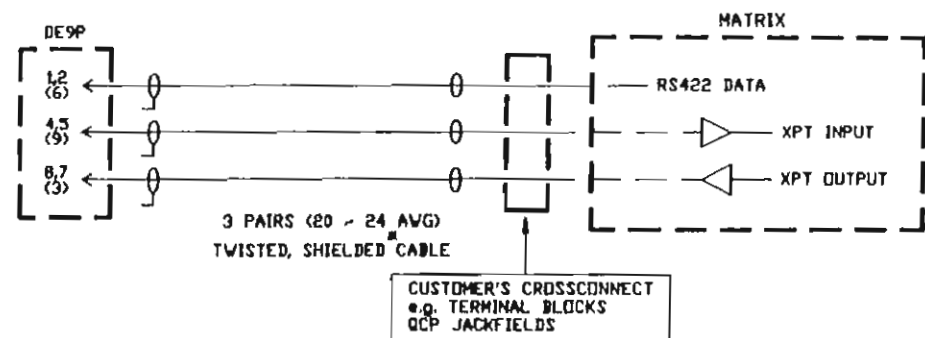
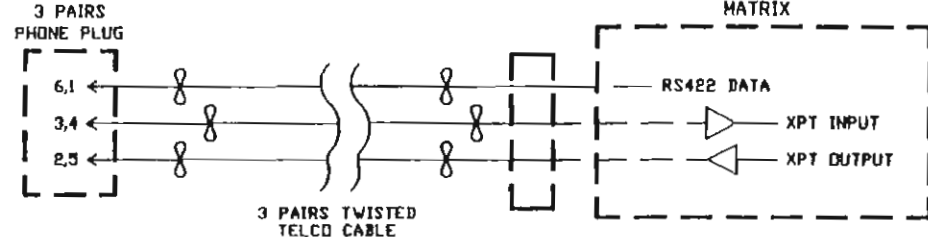
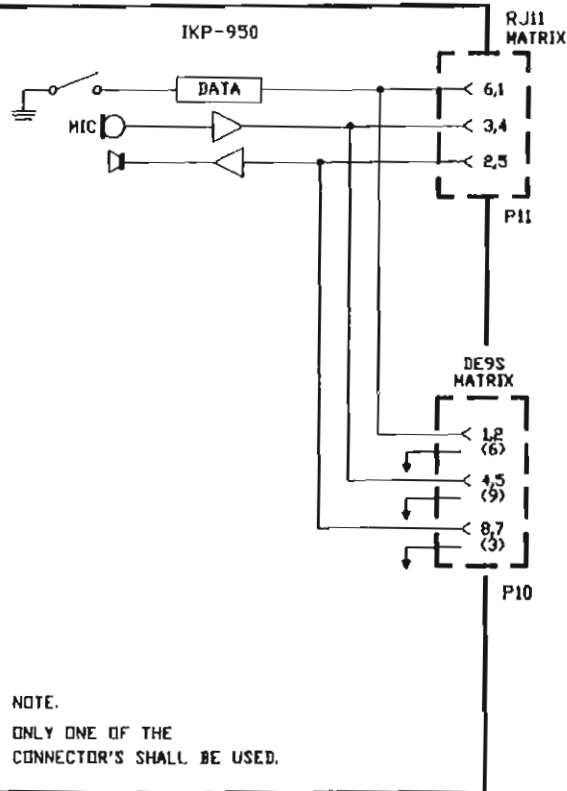


DRAWING REVISED	P.C.	MAR 22 91	3
RETITLED: WAS LKA-3/2-1		22 OCT 90	2
ORIGINAL DRAFT	W.Y./M.B.	15 JUN 90	1
DESCRIPTION	DATE	REV.	

KP95 AND KP96
LEVER KEYS 1-8
WIRING DIAGRAM

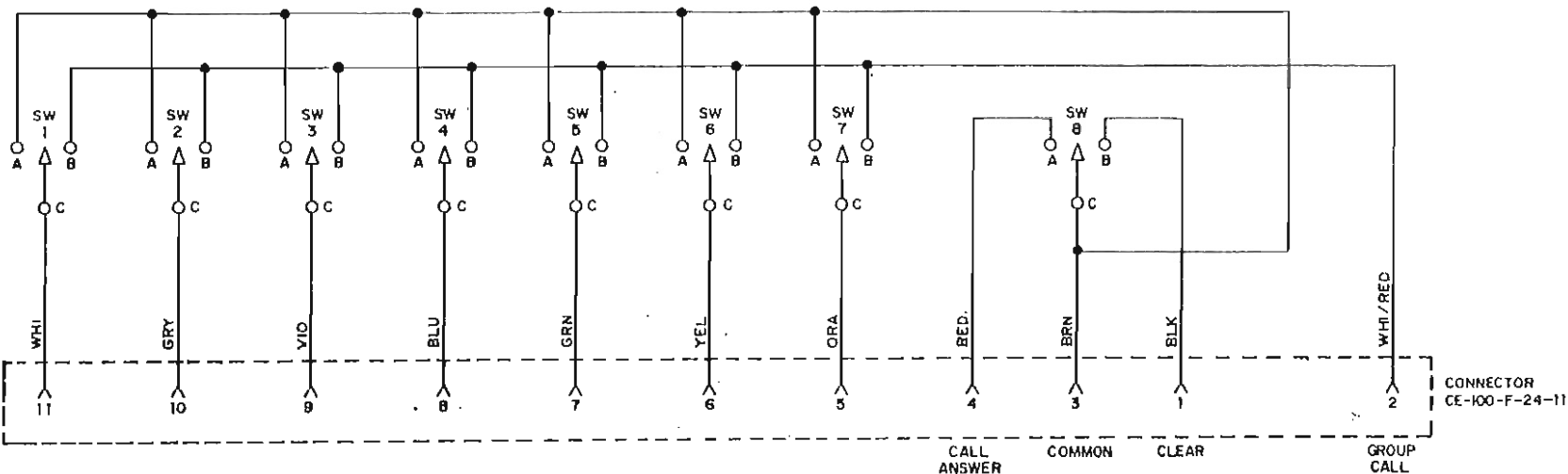
DRAWN M. BUDZIAK	DATE 15 JUN 90	SIZE B	DRAWING NUMBER IKP-950/2-7
CHECKED W. YAU	DATE 25 SEP 90		

IX-50147



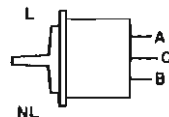
1. SHIELDS TO BE PICKED UP
AT ONE END ONLY.
2. THIS CABLE MAY BE REPLACED
WITH 3 PAIRS (20 - 24 AWG)
TWISTED, UNSHIELDED CABLE.

ORIGINAL DRAFT		07-JAN-90		REV 1
CONTROL No. 100977				
IKP-950				
INTERCOM KEY PANEL MATRIX CONNECTOR WIRING DETAIL				
DATE	M.F.	DATE	DRAWING NUMBER	
07-JAN-90		13 JUN 90	B IKP-950/8-4	



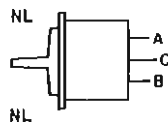
- NOTES: (1) ALL WIRES ARE 24 AWG.
 (2) ALL SWITCHES ARE CARLING TYPE
 (3) SWITCHES FOR LEVER KEYS 9-16,
 USED WITH KP95 AND KP96

TOP OF PANEL
SW1-7

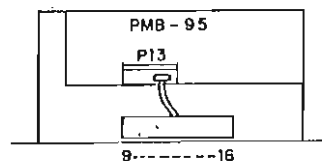


(UP) L = C-B
 (DOWN) NL = C-A

TOP OF PANEL
SW8

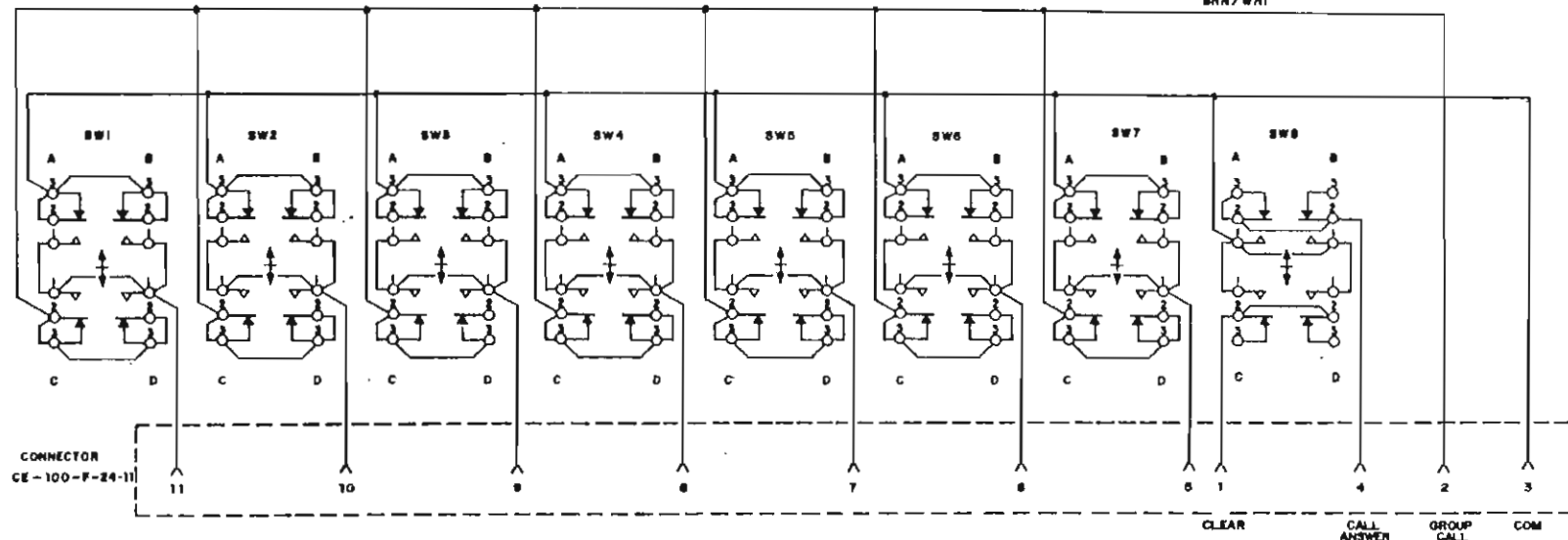


(UP) NL = C-B
 (DOWN) NL = C-A

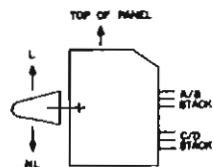


REVISED	P.C.	MAR2291	3
RETITLED: WAS LKA-4/2-1		22 OCT 90	2
ORIGINAL DRAFT	W.Y./M.B.	19 JUN 90	1
DESCRIPTION	DATE	REV.	
KP95 AND KP96 LEVER KEYS 9-16 WIRING DIAGRAM			
DRAWN M. BUDZIAK	DATE 19 JUN 90	SITE B	DRAWING NUMBER IKP-950/2-8
ENTERED W. YAU	DATE 25 JUN 90		

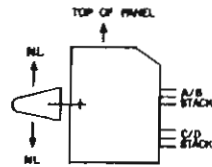
TX-50148



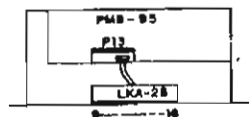
SW1-7



SW8



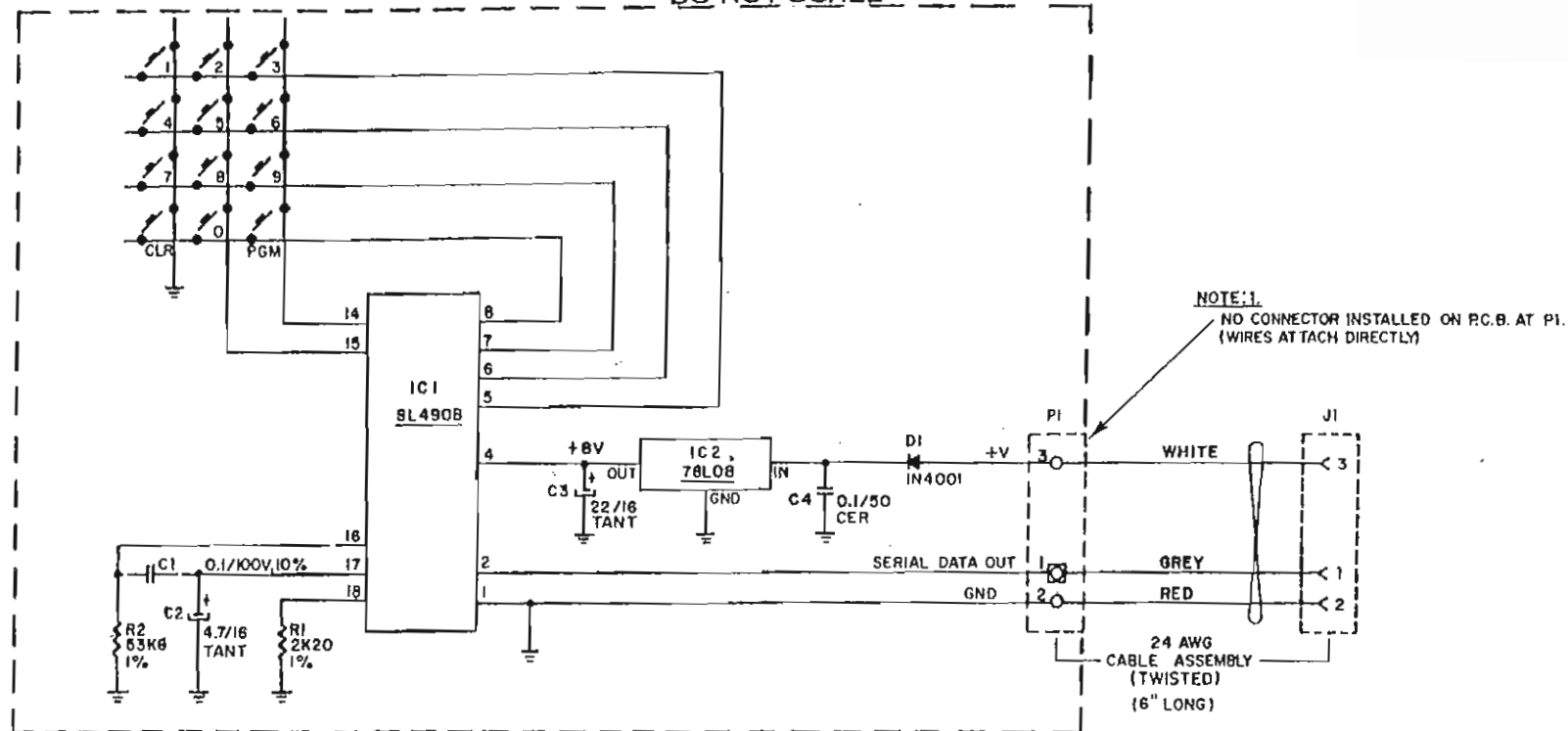
- NOTES:**
1. ALL WIRES ARE 24 AWG.
 2. SWITCHES ARE TMC TYPE.
 3. ASSEMBLY FOR LEVER KEYS B-10, USED WITH KP97.



TX-50197

ISSUE DESCRIPTION RETIRED: WAS LKA-6/2-1 KJRL		DRAWN: M. BUDZIAK		APPROVED: <i>[Signature]</i> 26 JUNE 90		LKA-2B TMC LEVER KEY ASSEMBLY WIRING SCHEMATIC	
		CHECKED: W. YAU		DATE: 26 JUNE '90			
		ALL DIMENSIONS IN INCHES DO NOT SCALE					
		UNIT:					
DATE 9/03/90		REV 2		C		944-0 008 Rev. LKA-2B/2-1	

DO NOT SCALE



TX - 50021

GENERAL REVISION	P.C.	26 SEP 90	REV. 2
ORIGINAL DRAFT	P.C.	04 MAY 90	REV. 1

LAST USED	NOT USED	TOLERANCES UNLESS OTHERWISE SPECIFIED	DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°	DRAWN— M.BUDZIAK	APPROVED—
C4		MATERIAL— FINISH—		CHECKED—	SCALE—
D1				DESIGN—	DATE—
IC2				P.C.	MAY 4/1990
P1			ALL DIMENSIONS IN INCHES DO NOT SCALE		
R2					

DKP - 3
SCHEMATIC

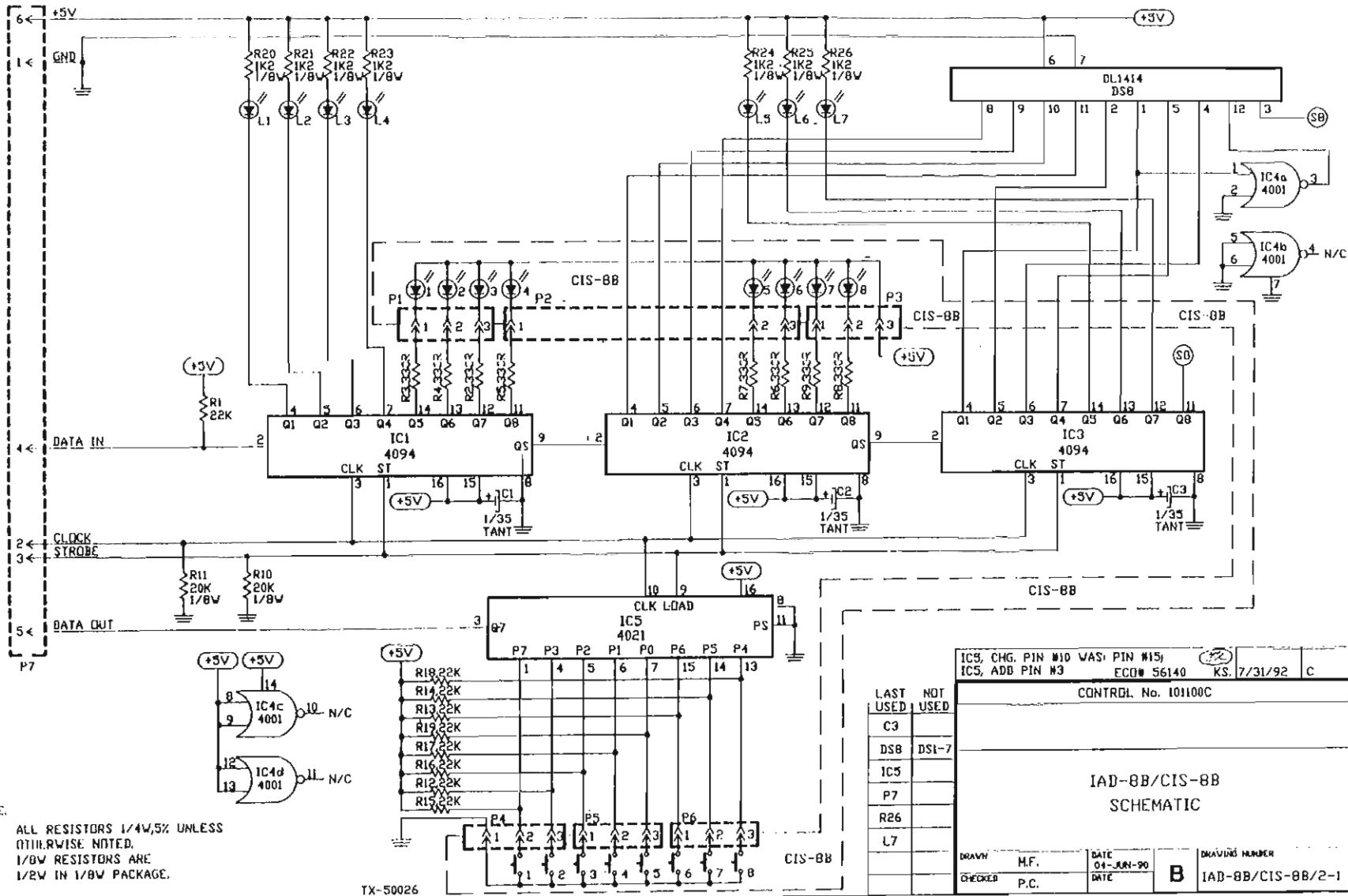
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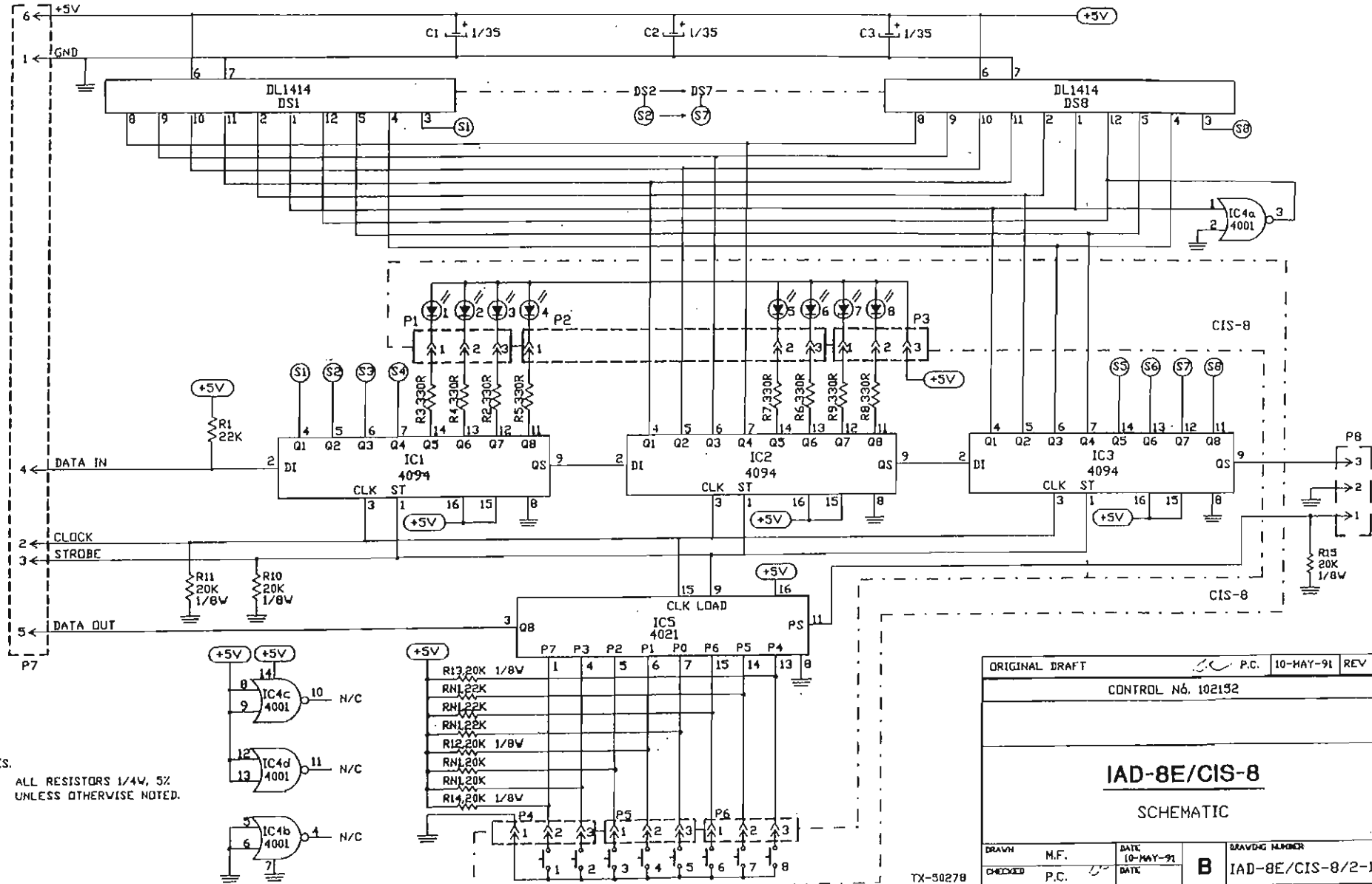
DRAWING NO.

8

DKP-3 / 2 - 1

ISSUE



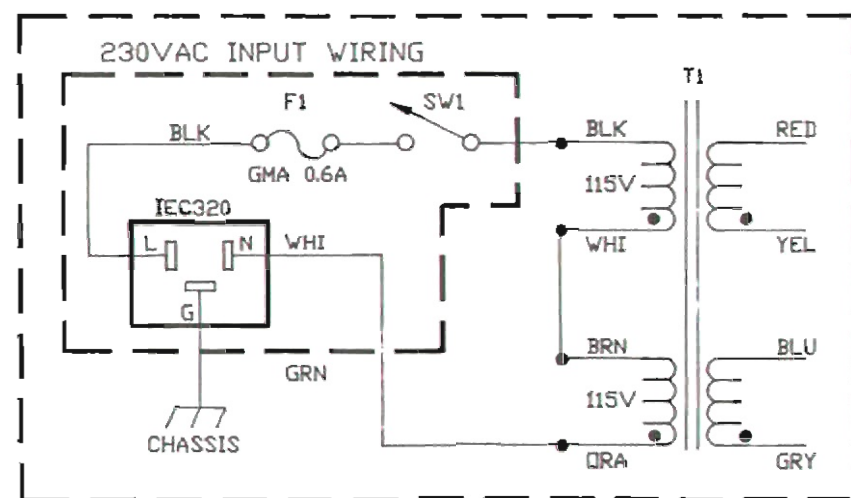
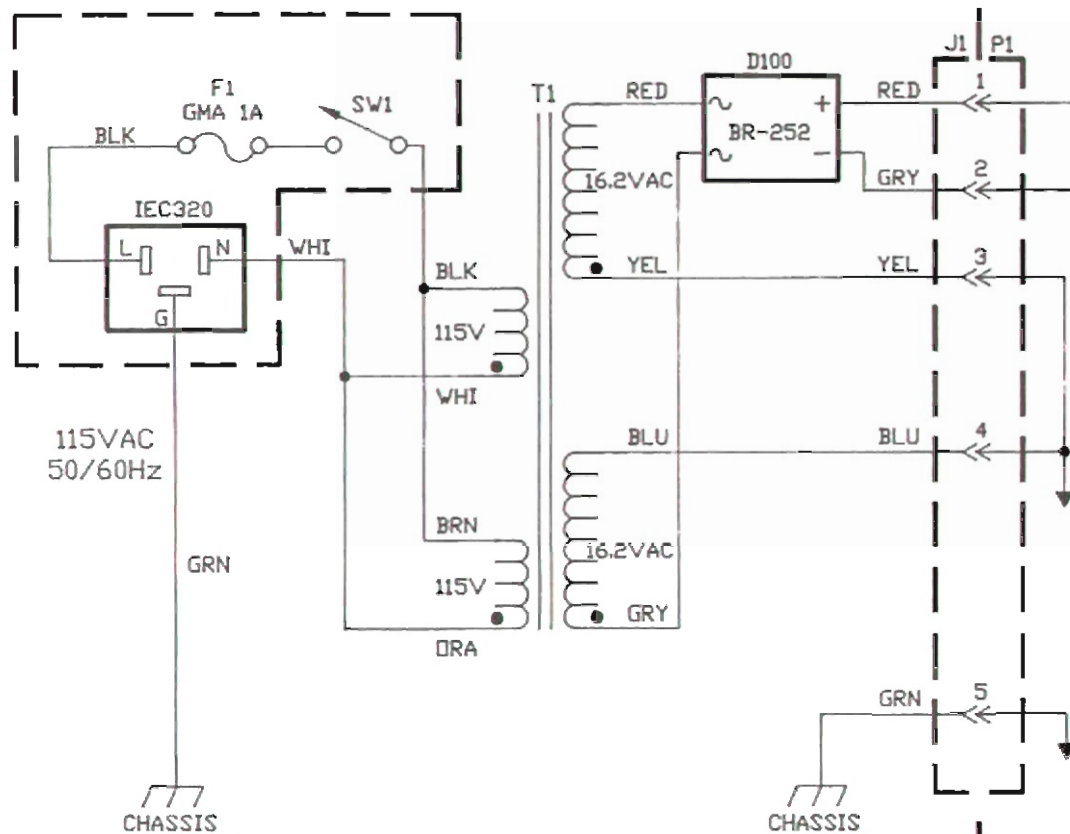


NOTES.
1. ALL RESISTORS 1/4W, 5%
UNLESS OTHERWISE NOTED.

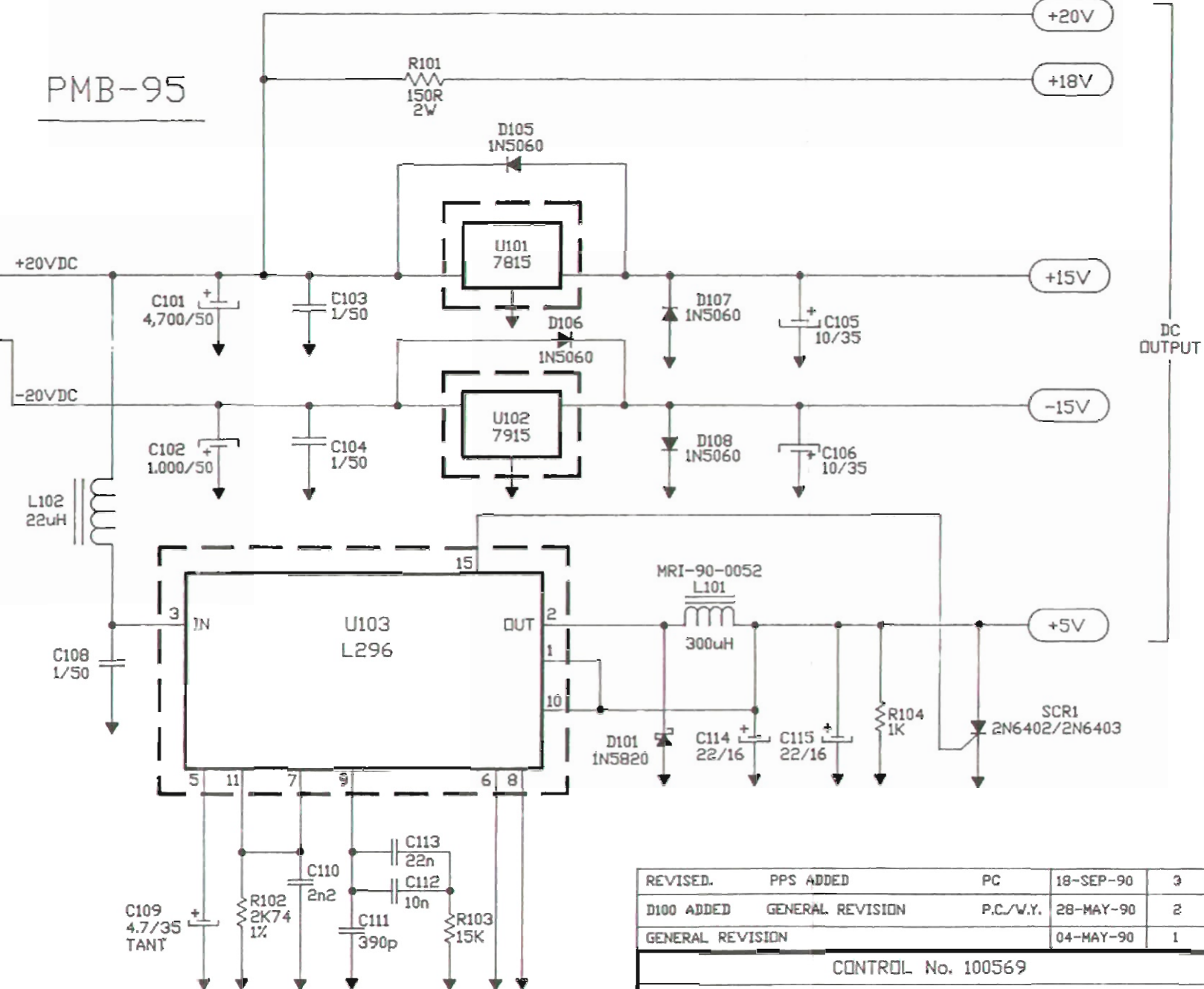
ORIGINAL DRAFT		P.C.		10-MAY-91		REV 1	
CONTROL N6, 102152							
IAD-8E/CIS-8							
SCHEMATIC							
DRAWN		M.F.		DATE		DRAWING NUMBER	
CHECKED		P.C.		DATE		B IAD-8E/CIS-8/2-1	

PPS-95

NOTE.
D100 MAY BE SUBSTITUTED
WITH HIGHER VOLTAGE BRIDGE
(BR254, BR256, BR258)



PMB-95



REVISED.	PPS ADDED	PC	18-SEP-90	3
D100 ADDED	GENERAL REVISION	P.C./W.Y.	28-MAY-90	2
GENERAL REVISION			04-MAY-90	1

CONTROL No. 100569

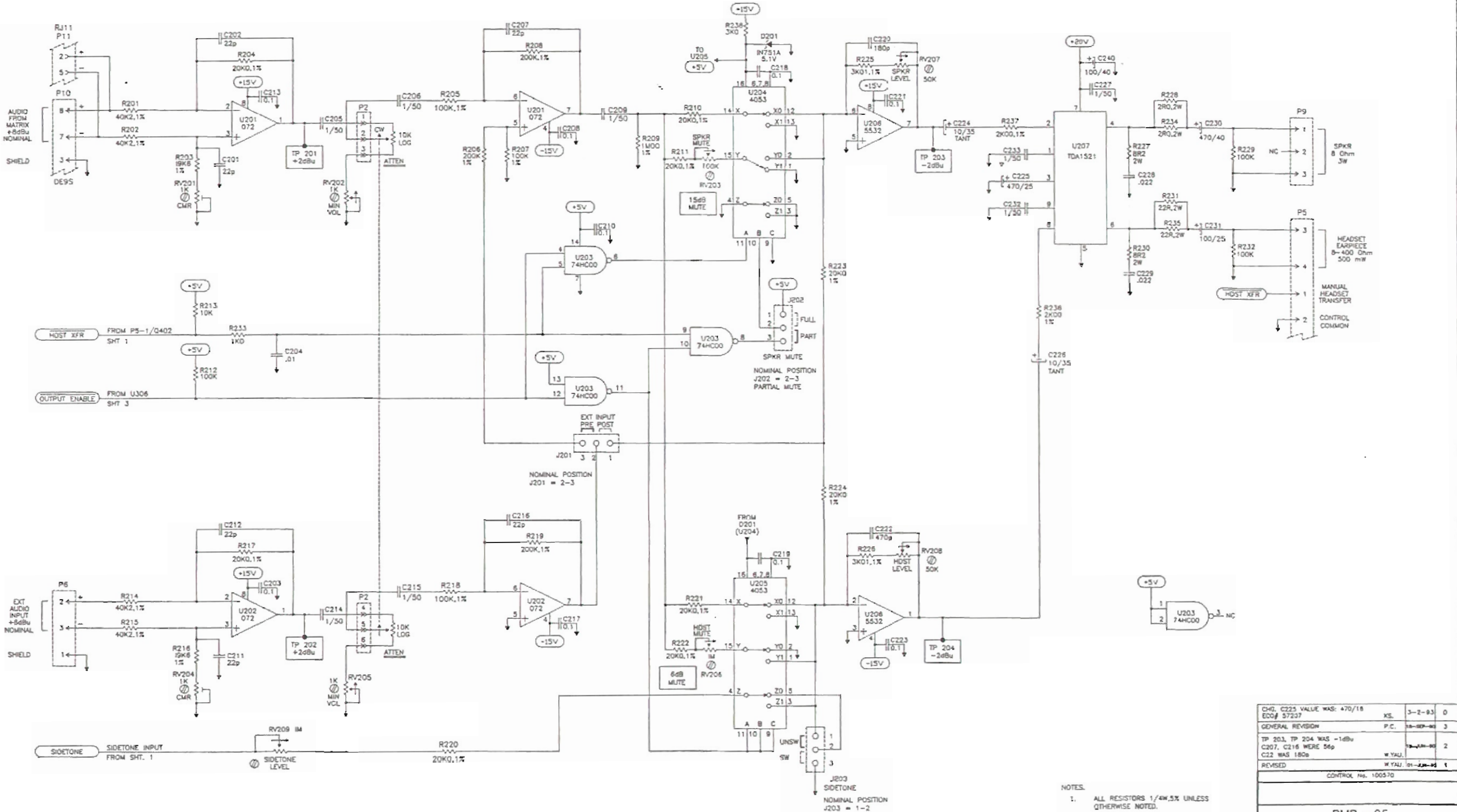
PMB - 95

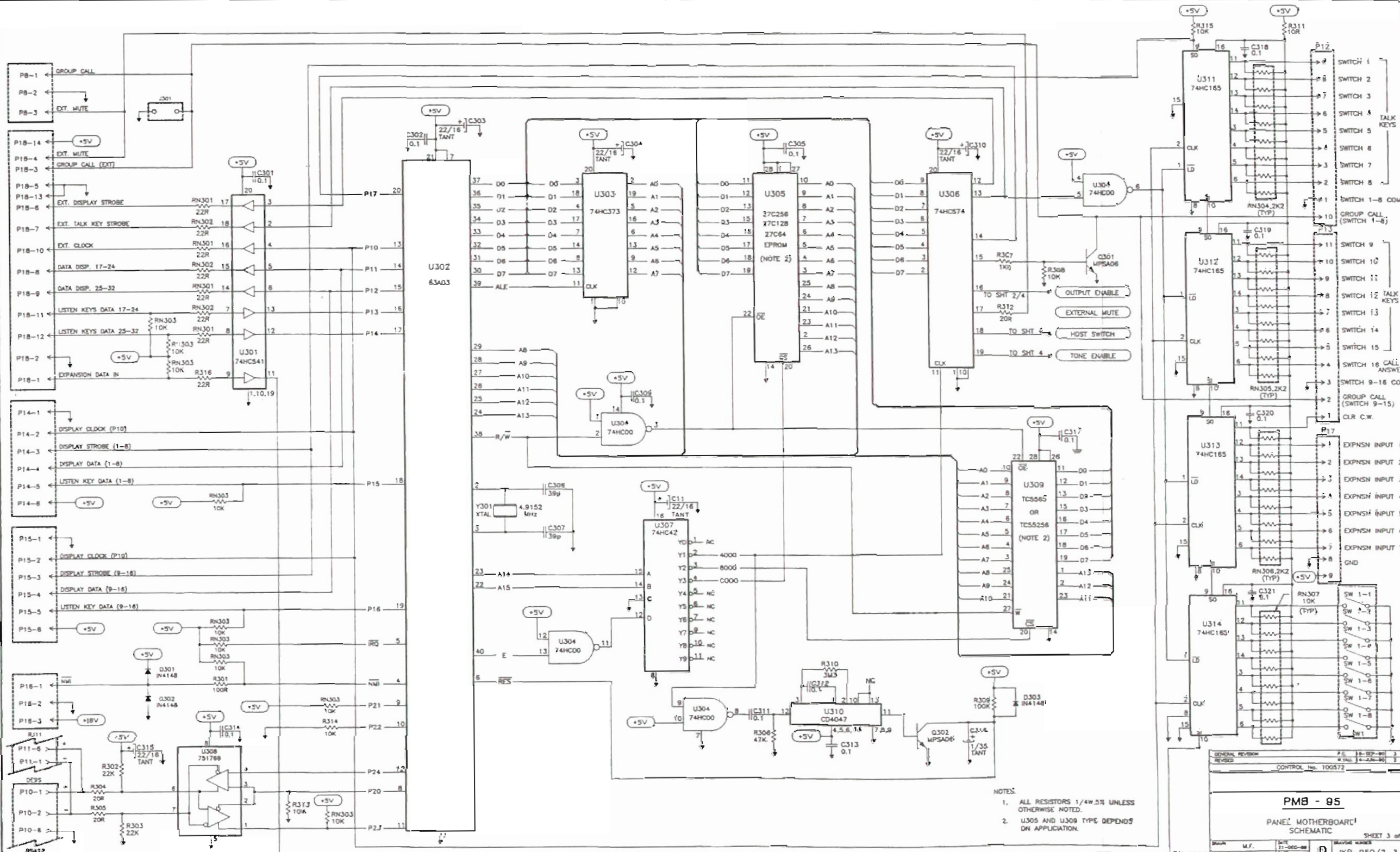
PANEL MOTHERBOARD SCHEMATIC

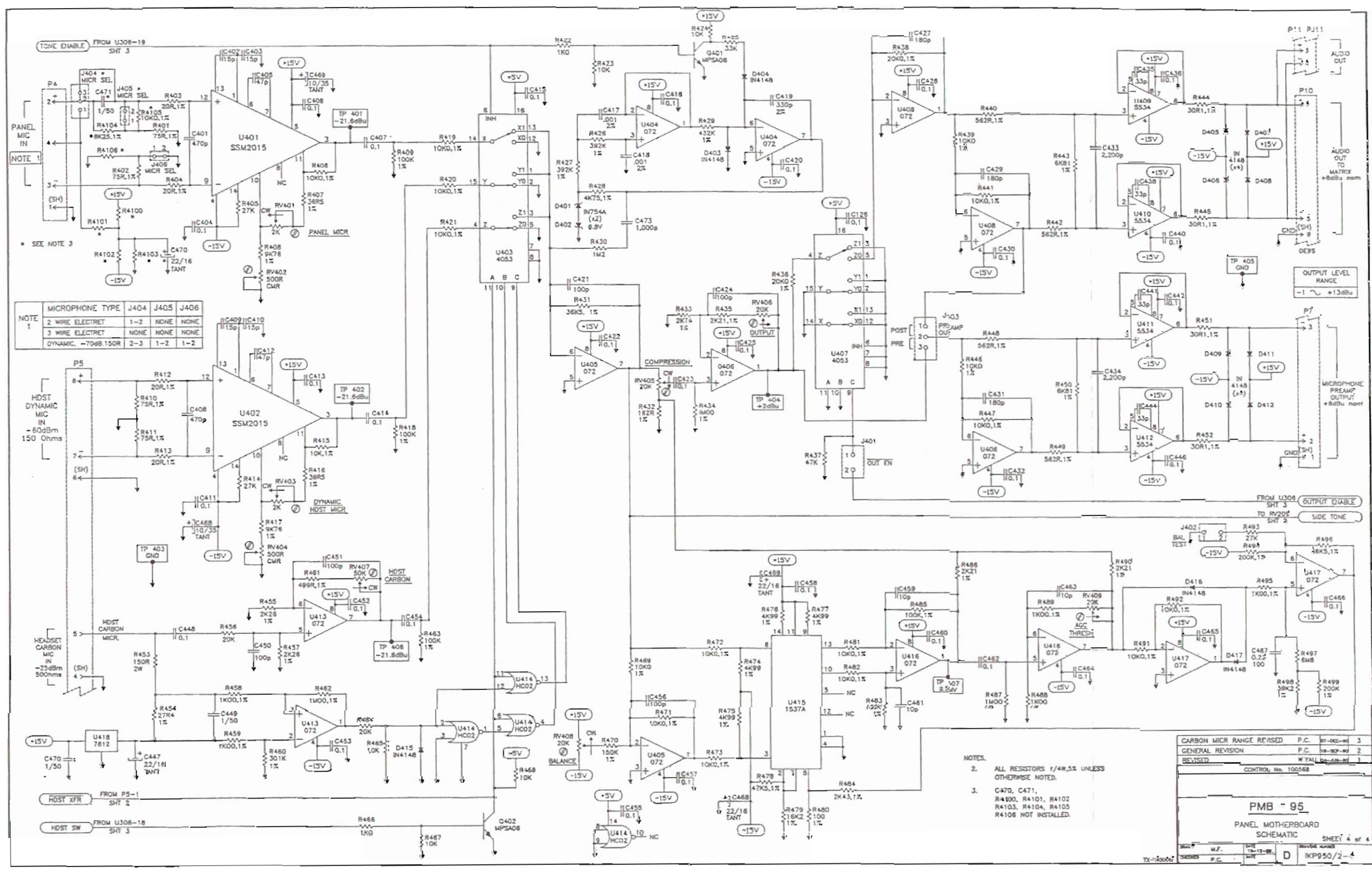
SHEET 1 of 4

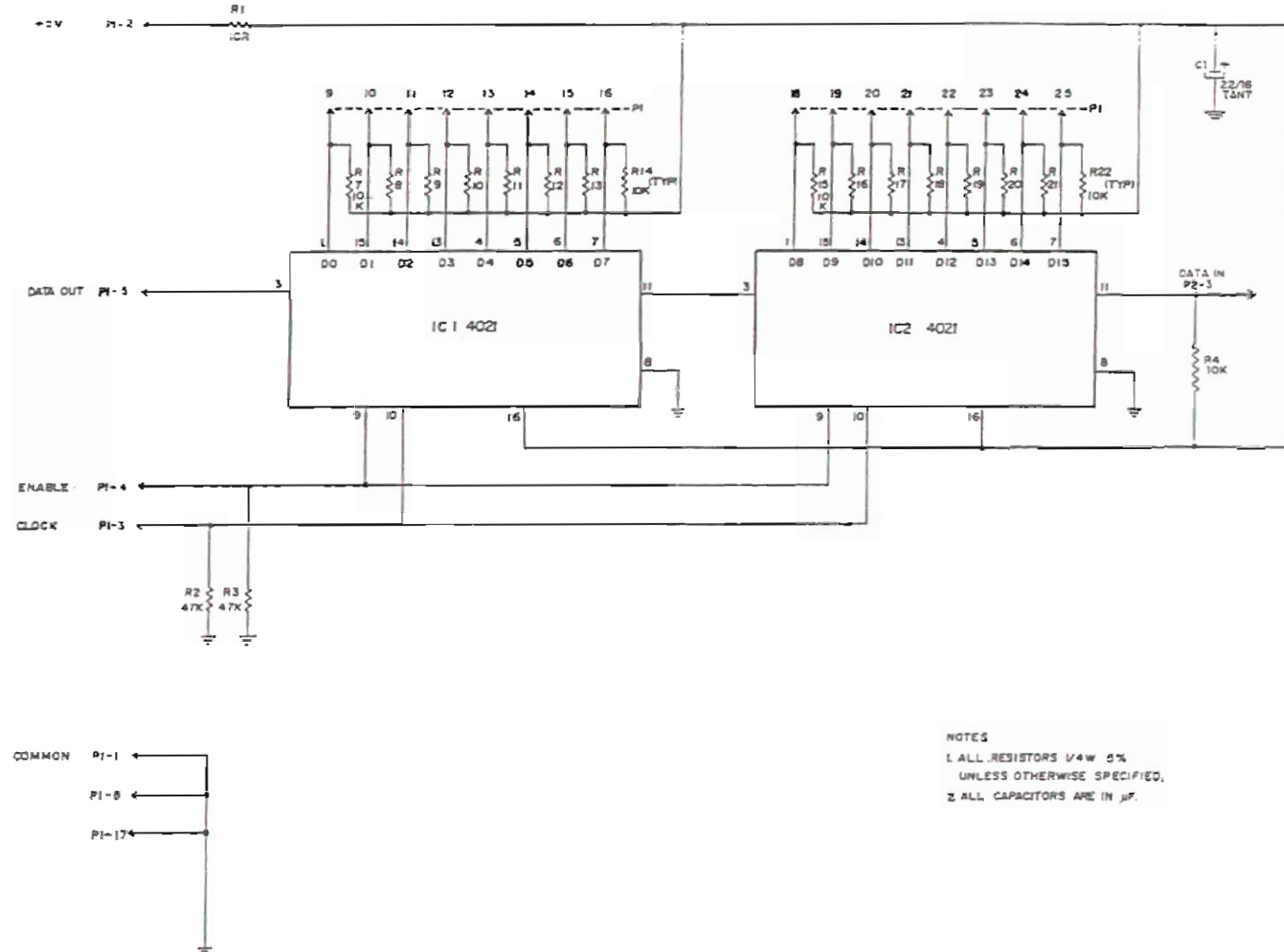
DRAWN	M.F.	DATE	B	DRAWING NUMBER
CHECKED	P.C.	DATE		
				IKP-950/2-1

TX-50006

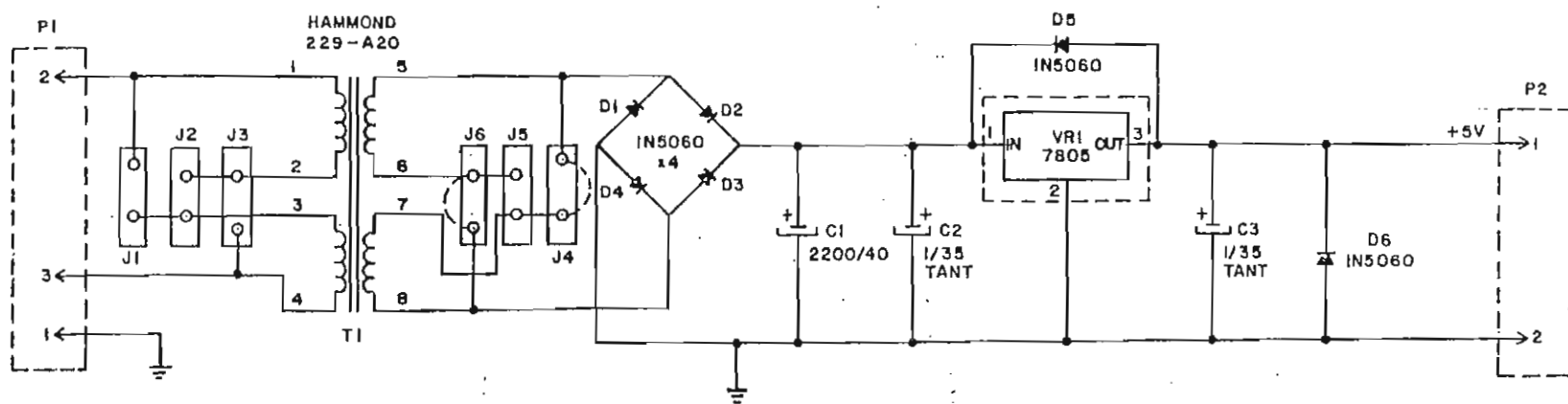








ORIGINAL DRAFT	PC	APR 18 91	1
PIB-32-3468			
PUSHBUTTON INTERFACE BOARD			
SCHEMATIC			
TX-50201	PC	APR 18 91	1

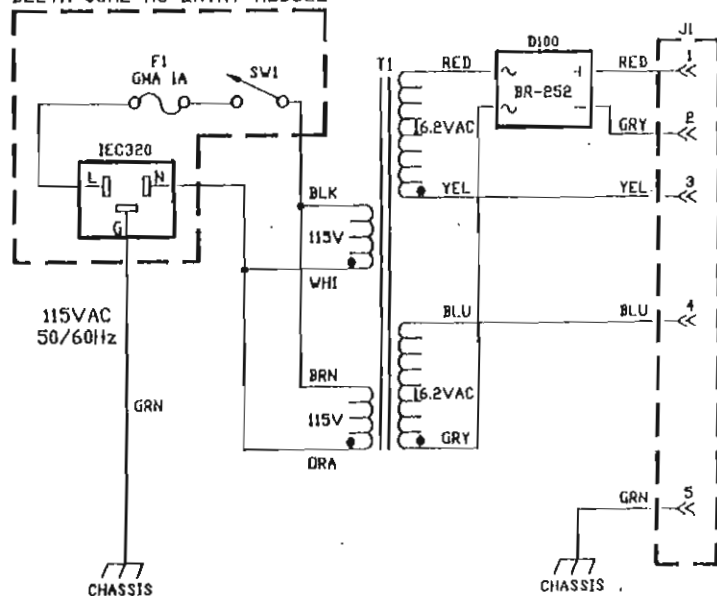


NOTES.

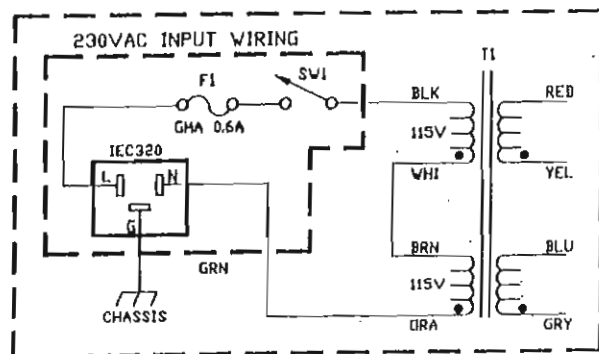
- FOR 115V OPERATION INSTALL INSULATED JUMPERS AT J1 AND J3.
FOR 230V OPERATION INSTALL INSULATED JUMPER AT J2
- FOR +5V OUTPUT INSTALL INSULATED JUMPERS AT J4 AND J6

GENERAL REVISION		PC	23 OCT 90	2
ADDED J1 to J6		JW	23 FEB 88	1
DESCRIPTION			DATE	REV.
PPS-5				
SCHEMATIC				
DRAWN		M. F.	DATE	19 AUG 87
CHECKED		J.W.	DATE	

DELTA 06A2 AC ENTRY MODULE



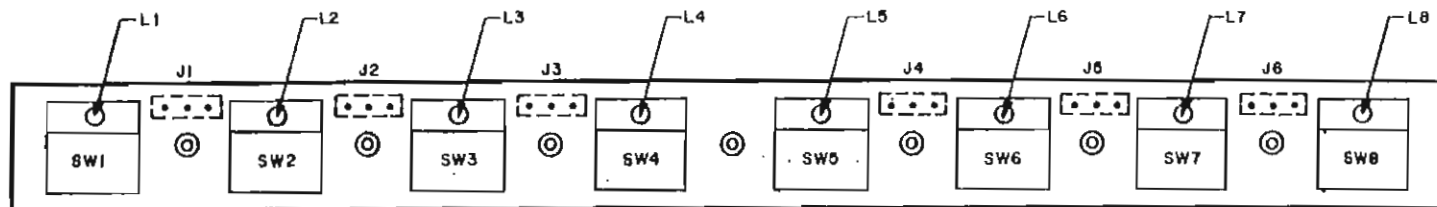
NOTE: D100 MAY BE SUBSTITUTED
WITH HIGHER VOLTAGE BRIDGE
(BR-254, BR-256, BR-258)



ORIGINAL DRAFT		26-SEP-90	REV.1
CONTROL No. 101191			
PPS - 95			
POWER SUPPLY SCHEMATIC			
DRAWN	M.F.	DATE 26-SEP-90	DRAWING NUMBER
CHECKED	P.C.	DATE	B PPS-95/2-1

TX-50012

DO NOT SCALE



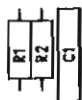
NOTE 1: CIS-8B HAS A YELLOW CAP
FOR SW8 (ONLY), ENGRAVED "HDS".

NOTE 2: J1 THROUGH J6 ARE MOUNTED
ON SOLDER SIDE.

GENERAL REVISION	P.C.	9-OCT-90	3
NOTE ADDED	K.J.R.	6-JUL-90	2
ORIGINAL DRAFT		24-JAN-85	1
DESCRIPTION		DATE	REV.

LAST USED	NOT USED	TOLERANCES UNLESS OTHERWISE SPECIFIED	DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°	DRAWN- M. F.	APPROVED-	CIS-8 /CIS-8B COMPONENT LAYOUT		
J6		MATERIAL-		CHECKED- Q2 4-1-85	SCALE-			
SW8				DESIGN- L.R.	DATE- 24 - JAN - 85			
L8				ALL DIMENSIONS IN INCHES DO NOT SCALE				
		FINISH-						
						UNIT-	B	DRAWING NO. CIS-8/8-1

TX-50041



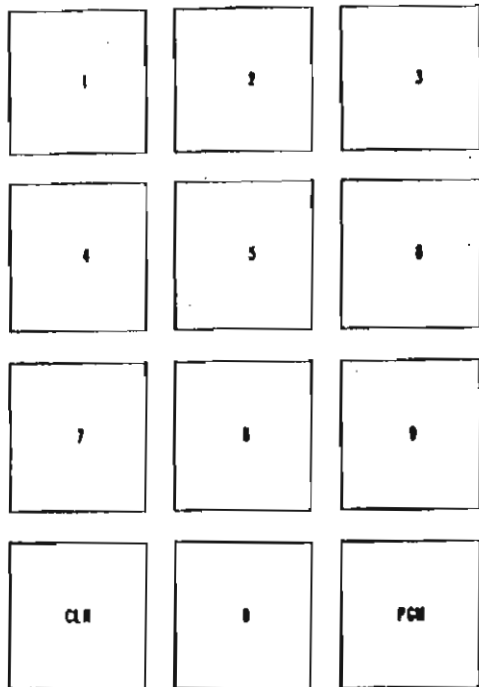
C2 +

IC 1

+ C3

IC 2

C4



DKP-3 PC-1034-2T

- B1 - 3 000 1 PI SILK COMP SIDE DKP-3 PC1034 REV C

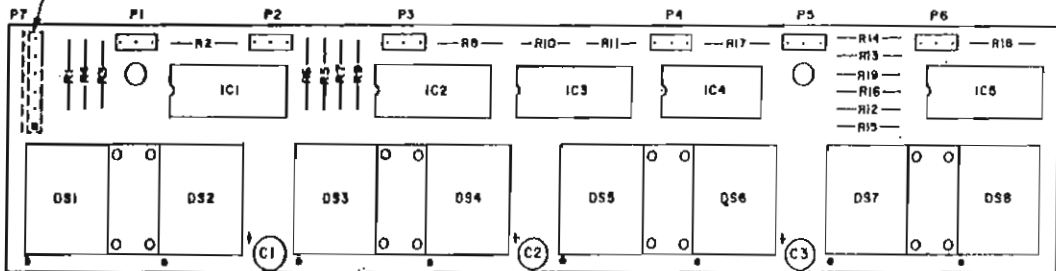
DELETED McCURDY MADE IN ⁸⁶⁹ CANADA" ADDED LAYER ID & REV		8-5-92	D
BOARD REVISION	P.C.	27-2-91	3
GENERAL REVISION	PC	26-8-90	2
ORIGINAL DRAFT	P.C.	14-5-90	1
DESCRIPTION		DATE	REV.

DKP-3
COMPONENT LAYOUT

TX-50023

BY: M. BUDZIAK	DATE: MAY 1990	REV: 8	REVISIONS TO CHARTER
CHARTERED BY: P.C.	DATE: 10 MAY 90		DKP-3/8-1

NOTE
P7 MOUNTED ON
SOLDER SIDE



RESISTOR NOS. UPDATED	P.C.	NO NOV 90	REV 3
GENERAL REVISION		1 OCT 90	REV 2
REDRAWN		1 APR 90	REV 1

TX-50031

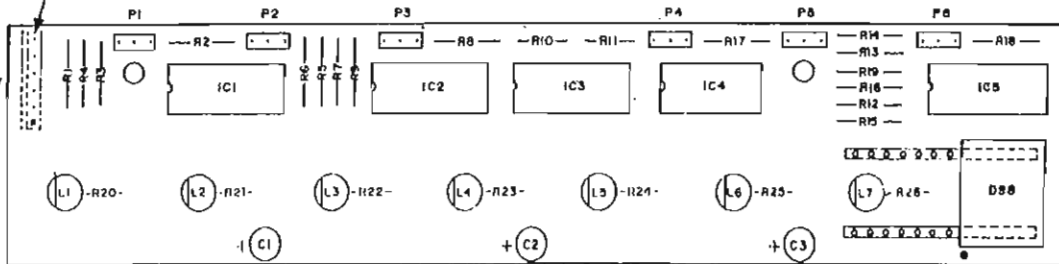
LAST USED	NOT USED	DRAWN - M.M.	APPROVED -
C3		CHECKED -	SCALE -
DS8		DATE -	DEC. 89
IC5		ALL DIMENSIONS IN INCHES DO NOT SCALE	
P7			
R19			

IAD-8

COMPONENT LAYOUT

C IAD-8/B-1

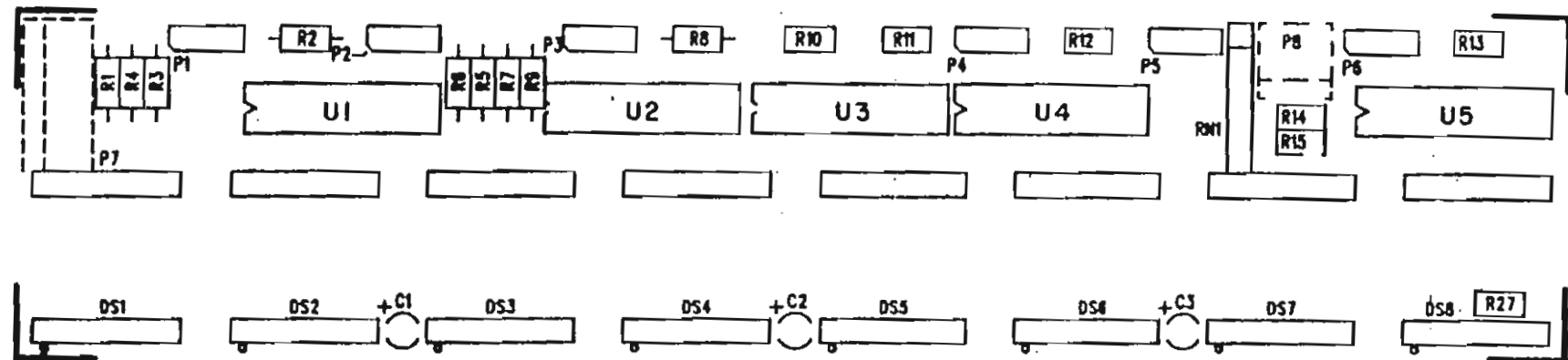
NOTE: P7 MOUNTED ON SOLDER SIDE.



RESISTOR NOS. UPDATED	P.C.	2 DEC 90	3
GENERAL REVISION	P.C.	5 OCT 90	2
ORIGINAL DRAFT		10 JUL 90	1
DESCRIPTION		DATE	REV.

LAST USED	NOT USED	DESIGN- M.BUDZIAK	APPROVED- [Signature] 11 JUL 90	IAD-8B
C3	DS1 TO DS7	ENTERED- [Signature]	SCALE-	
D98		DESIGN-	DATE- JULY 10/90.	
IC5				
P7				COMPONENT LAYOUT
L7				
R26				
		ALL DIMENSIONS IN INCHES DO NOT SCALE		UNIT- DRAWING NO. C IAD-88/8-1

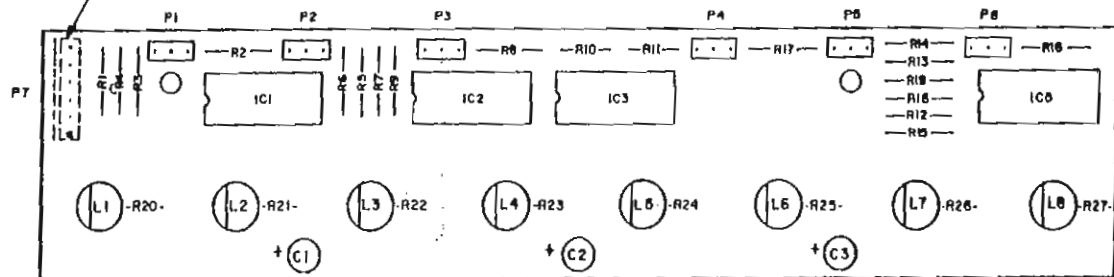
TX-50029



ORIGINAL DRAFT		P.C.	15 MAY 91	1
DESCRIPTION		DATE		REV.
IAD-8E COMPONENT PLACEMENT				
DRAWN	M. F.	DATE	SIZE	DRAWING NUMBER
ENTERED	P.C.	DATE	B	IAD-8E/8-1

TX-50287

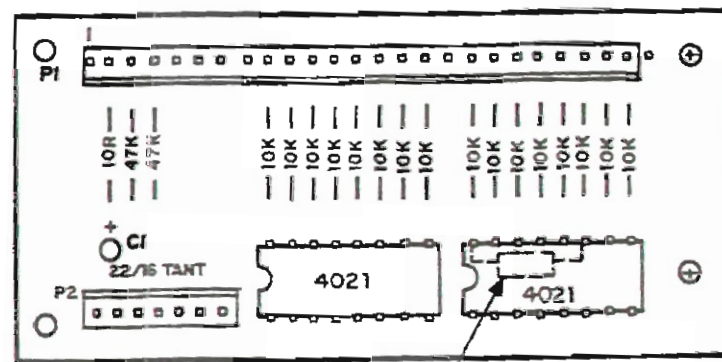
NOTE.
P7 MOUNTED ON
SOLDER SIDE.



RESISTOR NOS. UPDATED	P.C.	30-NOV-90	REV 3
GENERAL REVISION	P.C.	1-OCT-90	REV 2
ORIGINAL DRAFT		3-DEC-89	REV 1

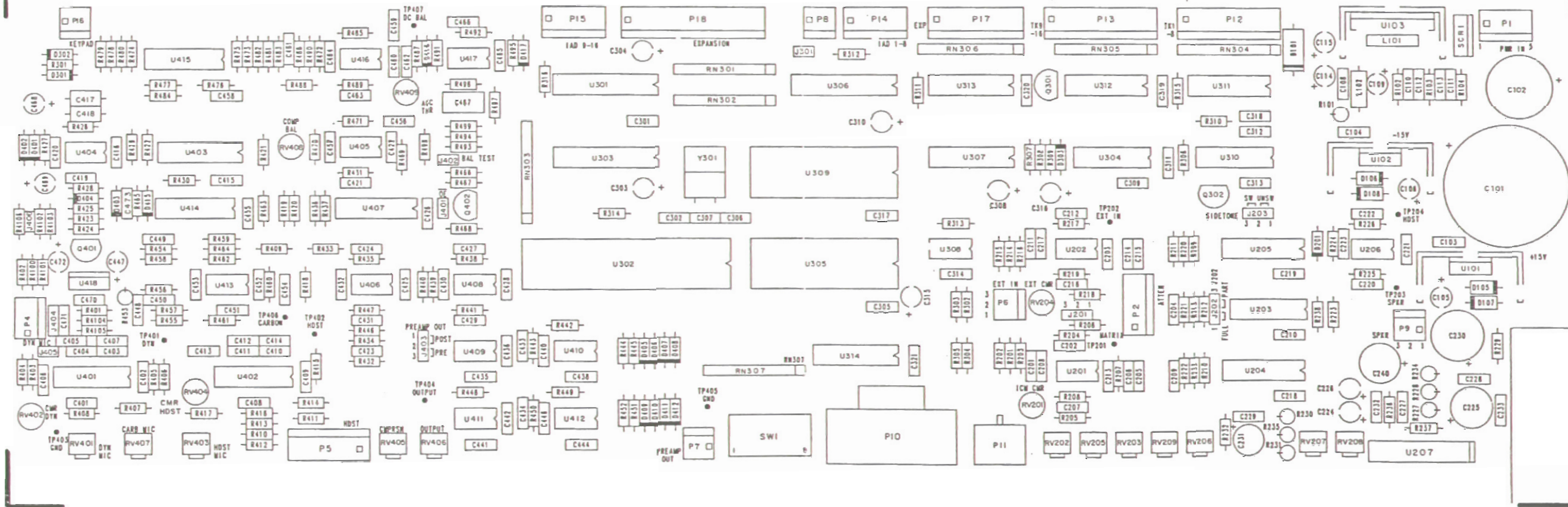
LAST USED	NOT USED	DRAWN- M.M.	APPROVED-
C3		CHECKED-	DIALS-
L6		DESIGN-	DATE-
IC5	IC4		DEC. 89
P7		ALL DIMENSIONS IN INCHES DO NOT SCALE	
R27			

IDD-8A		UNIT-	ORIGINING NO.
		C	IDD-8A/8-1



NOTE:
MOUNT 10K 1/4W 5%
RESISTOR ON SOLDER
SIDE AS SHOWN.

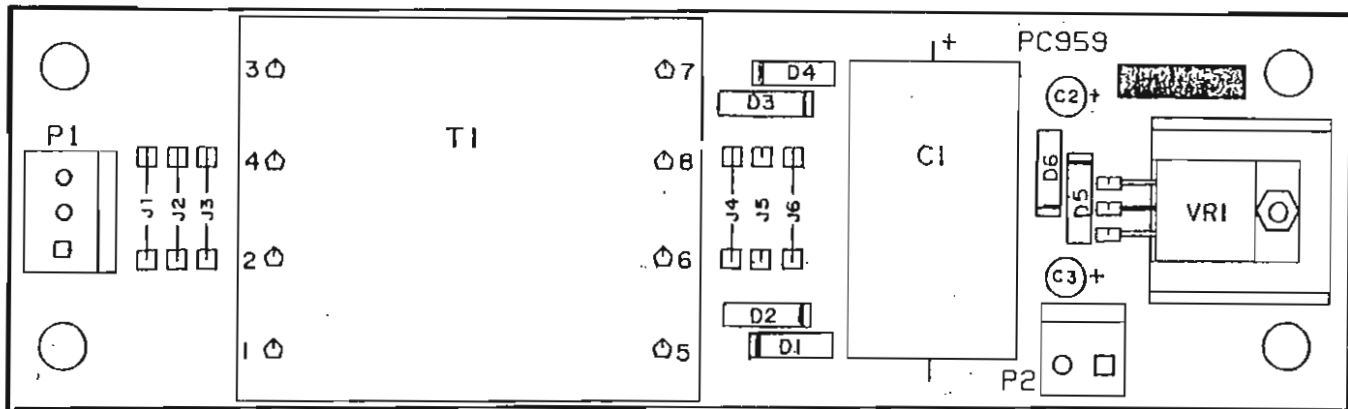
ORIGINAL DRAFT	PC	APR-81	1
PIB-32-3468			
ASSEMBLY DRAWING			
W. BLUDZIAK	APR-81	C	PIB-32-3468/8-2
TX-50199	APR-81		



D413 & D414 DELETED	PC	22 DEC 90	3
GENERAL REVISION	PC	28 9-90	2
ORIGINAL DRAFT	PC	13 6-90	1
NO DESCRIPTION			

PMB-95
COMPONENT LAYOUT

DESIGNED BY M. BUDZIAK	DATE 3 JUN 90	REV D	PROJECT PMB-95/8-1
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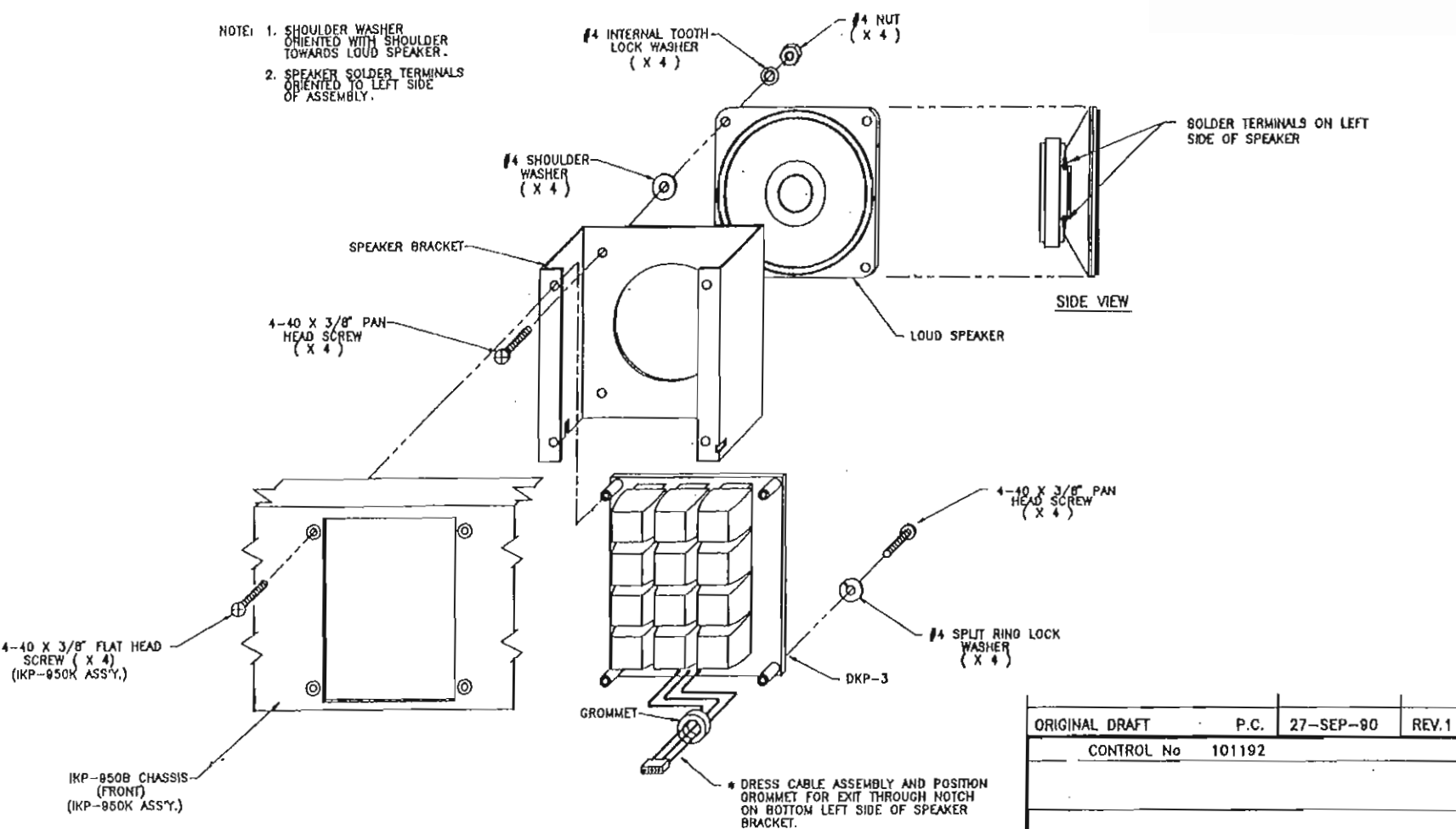
NOTES.

1. FOR 115V OPERATION, INSULATED JUMPERS INSTALLED AT J1 AND J3.
2. FOR 230V OPERATION, INSULATED JUMPER INSTALLED AT J2 ONLY.
3. FOR +5V OUTPUT INSULATED JUMPERS INSTALLED AT J4 AND J6.

TX - 50073

ORIGINAL DRAFT		P.C.	23-OCT-90	1
DESCRIPTION		DATE	REV.	
PPS-5 COMPONENT LAYOUT				
DRAWN	M. F.	DATE	SHEET	DRAWING NUMBER
CHECKED	P. C.	23-OCT-90	B	PPS-5/8-1

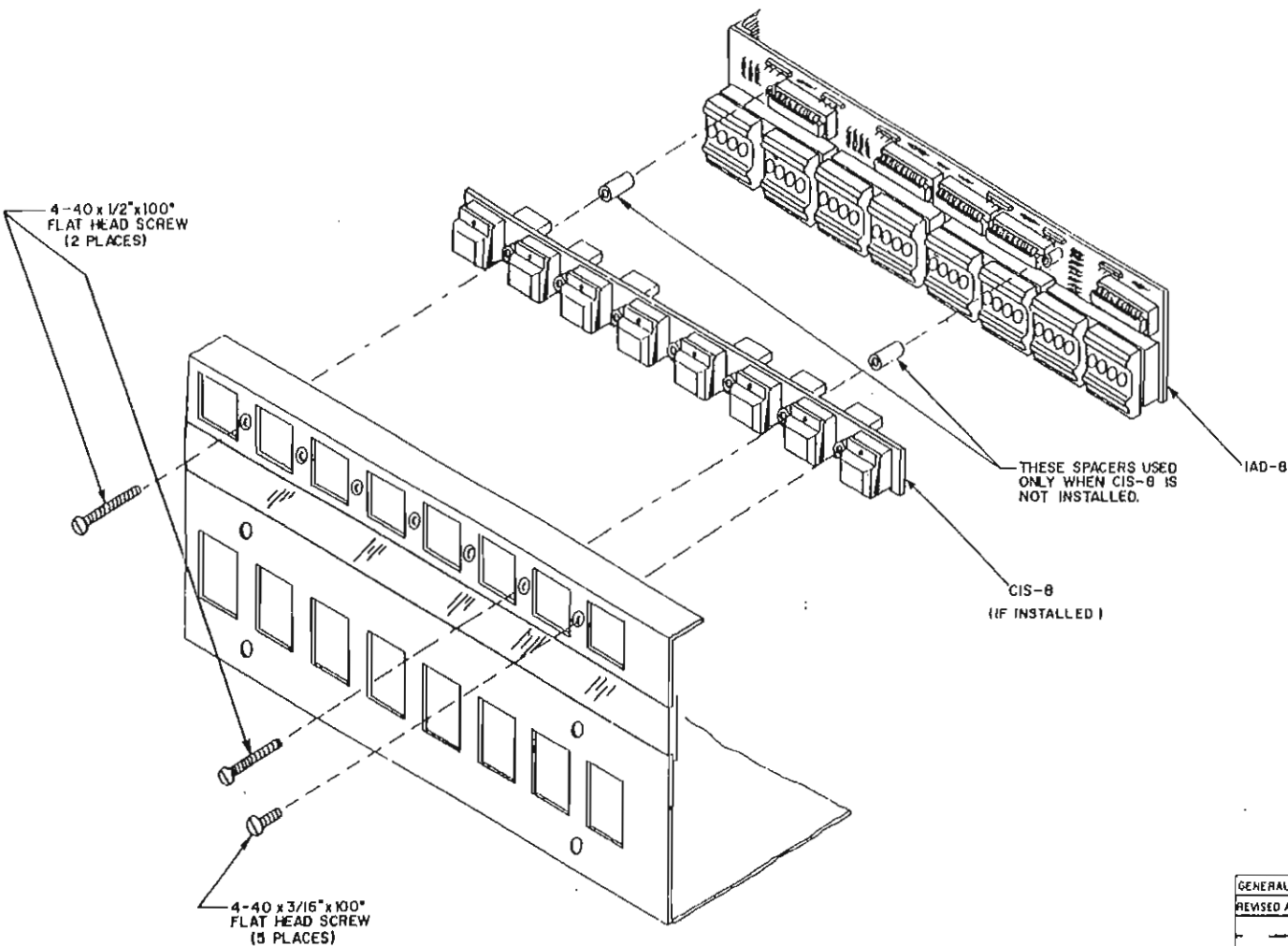
- NOTE: 1. SHOULDER WASHER
ORIENTED WITH SHOULDER
TOWARDS LOUD SPEAKER.
2. SPEAKER SOLDER TERMINALS
ORIENTED TO LEFT SIDE
OF ASSEMBLY.



ORIGINAL DRAFT	P.C.	27-SEP-90	REV.1
CONTROL No 101192			
DKP-3 MECHANICAL ASSEMBLY DRAWING			
DRAWN J.B.	DATE 27-SEP-90	DRAWING NUMBER	
CHECKED	DATE	B DKP-3/8-3	

TX-50024

NOTE: 1.
THE 4-40 x 3/16" SCREWS (5 PLACES)
ARE REQUIRED ONLY WHEN THE
CIS-B IS INSTALLED.



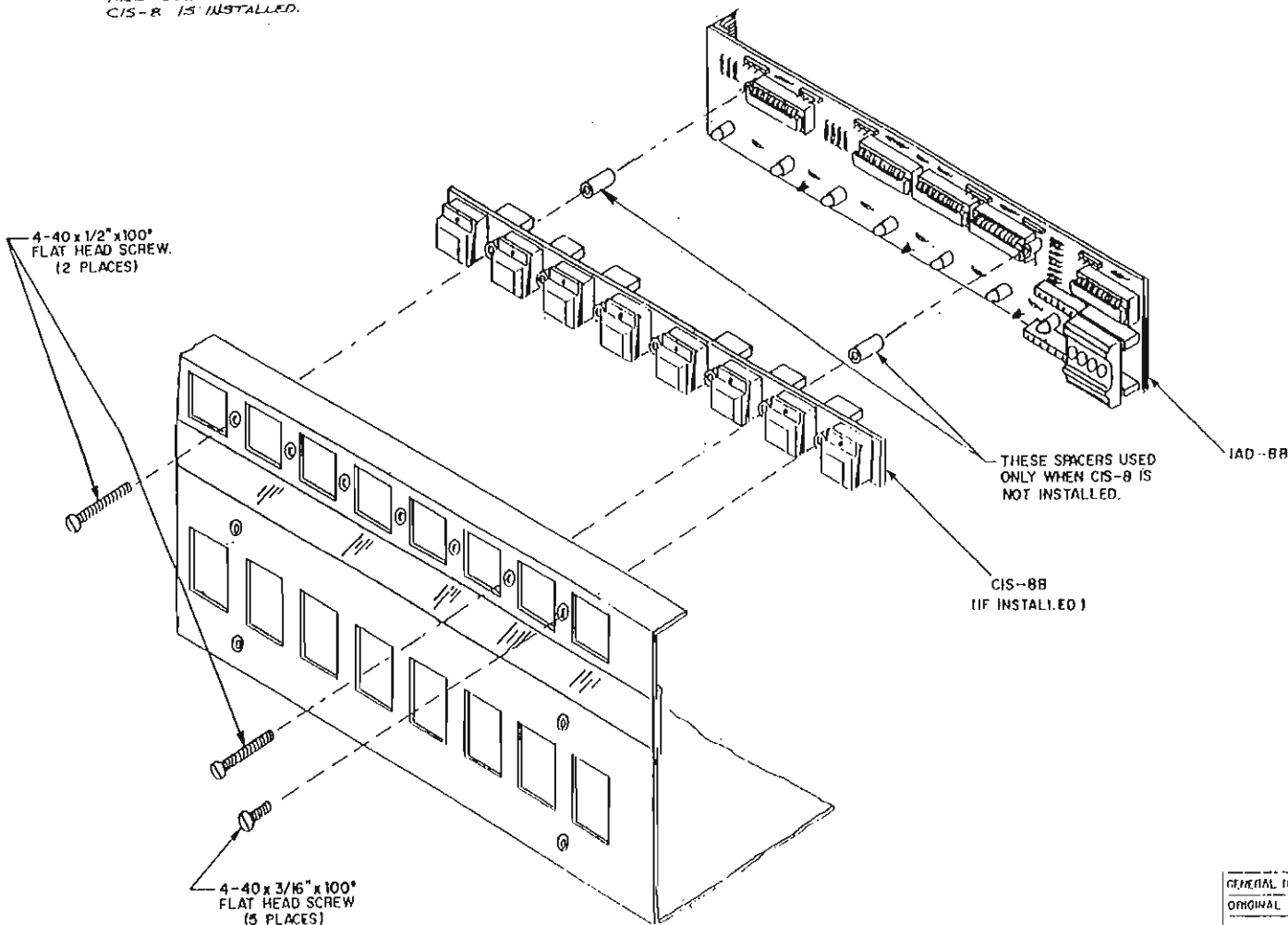
GENERAL REVISION	P.C.	4 OCT. 90	3
REVISED ALPHA DISPLAY MTS.	K.J.R.	8 JUL. 90	2
DESCRIPTION	DATE	BY	

IAD-8
CHASSIS ASSEMBLY DRAWING

TX-50037	DESIGN L.B.	DATE 19 JUN 85	APP C	REVISION IAD-8/8-3
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NOTE:1.
IAD-88 IS USED
ONLY IN KEYBOARD
POSITION 3-16.

NOTE:2.
THE 4-40 x 3/16" SCREWS (3 PLACES)
ARE REQUIRED ONLY WHEN THE
CIS-8 IS INSTALLED.



GENERAL REVISION	PC.	1 OCT-90	2
ORIGINAL DRAFT		10 JUL-90	1
BY: SC 881000		DATE	REV

IAD-88 CHASSIS ASSEMBLY DRAWING			
DESIGNED M. DUDZIAK DATE 10 JULY 89	CHECKED W. YAU DATE 7/7	ENGR C	REVISION IAD-88/8-3

NOTE: 1.
THE 4-40 x 3/16" SCREWS (5 PLACES)
ARE REQUIRED ONLY WHEN THE
CIS-8 IS INSTALLED.

4-40 x 1/2" x 100"
FLAT HEAD SCREW
(2 PLACES)

THESE SPACERS USED
ONLY WHEN CIS-8 IS
NOT INSTALLED.

IDD-8A

CIS-8
(IF INSTALLED)

4-40 x 3/16" x 100"
FLAT HEAD SCREW
(5 PLACES)

GENERAL REVISION	3 OCT 90	3
REVISED TO SHOW NEW IDD-8A LAYOUT	K.J.R. <i>752</i>	2
DESCRIPTION	DATE	REV

IDD-8A
CHASSIS ASSEMBLY DRAWING

TX-00039

DESIGN	DATE	REV	QUANTITY
L.B.	9 JUN 85	C	1
CKD/STW	L.P.R. 1/2		

IDD-8A/8-3

SECTION 2

REPLACEMENT PARTS

CIS-8 AND CIS-8B LISTEN KEY ASSEMBLIES

Ref No.	RTS Part No.	Description
	8800-157289	Switch, Pushbutton with Black Cap and Red LED
	8800-243962	Switch, Pushbutton with Yellow Cap and Red LED (CIS-8B only)
	8800-304478	Socket Strip, 3 Position

DKP-3 KEYPAD/SPEAKER ASSEMBLY

Ref No.	RTS Part No.	Description
C1	8800-117484	Capacitor, Polyester Film, 0.1uF, 100V, 10%
C2	8800-101311	Capacitor, Tantalum, 4.7uF, 16V, 20%
C3	8800-183018	Capacitor, Tantalum, 22uF, 16V, 20%
C4	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
D1	8800-103033	Diode, 1A, 1N4001
IC1	8800-104531	IC, Keypad Encoder, Serial
IC2	8800-128953	IC, Regulator, +8V, TO-92 Pkg, 78L08A
P1	8800-101721	Connector, 3 Position
R1	8800-107459	Resistor, Metal Film, 2.2K, 1/4W, 1%
R2	8800-107707	Resistor, Metal Film, 53.6K, 1/4W, 1%
	8800-155478	Washer, Lock, Internal Tooth, #4
	52188-006	Nut, Hex, #4
	8800-154576	Switch, Keypad
	8800-108582	Screw, Pan Head, #4-40 x 3/8
	8800-108939	Speaker, 2-1/2 x 2-1/2, 8 Ohm
	8800-121889	Washer, Shoulder Fiber, #4
	8800-135320	Rubber Grommet
	8800-297654	Bracket, Speaker
	8800-135972	Spacer, Hex, #4-40 x 3/4
	8800-121754	Washer, Lock, Split Ring, #4
	8800-104880	IC Socket, 18 Pin, Amp 2-640359-3
	8800-165421	Keypcap Set, Engraved (12 DKP-3)

IAD-8 DISPLAY ASSEMBLY

Ref No.	RTS Part No.	Description
C1 - C3	8800-101197	Capacitor, Tantalum, 1uF, 35V, 20%
DS1 - DS8	8800-124494	LED Display, 4-Character Alpha-numeric
IC1 - IC3	8800-116261	IC, 8 Stage Shift/Store Register, CD4094B
IC4	8800-126786	IC, Quad 2-Input NOR Gate, CD4001B
IC5	8800-104247	IC, 8 Stage Static Shift Register, CD4021B
P4 - P6	8800-124519	Header, Straight, 3 Position
P7	8800-127776	Header, Straight, 6 Position
R1	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R10, R11	8800-124485	Resistor, 20K, 1/2W, 5%
R12 - R19	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R2 - R8	8800-108109	Resistor, Carbon, 330 ohm, 1/4W, 5%
	8800-127366	IC Socket, 14 Pin, Amp 2-640357-3
	8800-127375	IC Socket, 16 Pin, Amp 2-640358-3
	8800-124500	Spacer, #4-40 x 3/8
	8800-124537	Screw, Flat-Head Machine, #4-40 x 1/2
	8800-124528	Spacer, #4 x 3/16
	8800-104915	IC Socket, 28 Pin, Amp 2-640362-3

IAD-8B DISPLAY ASSEMBLY

Ref No.	RTS Part No.	Description
C1 - C3	8800-101197	Capacitor, Tantalum, 1uF, 35V, 20%
DS8	8800-124494	LED Display, 4-Character Alpha-numeric
IC1 - IC3	8800-116261	IC, 8 Stage Shift/Store Register, CD4094B
IC4	8800-126786	IC, Quad 2-Input NOR Gate, CD4001B
IC5	8800-104247	IC, 8 Stage Static Shift Register, CD4021B
L1 - L7	8800-105362	LED, Red Super Bright, Stanley SBR-3931
P4 - P6	8800-124519	Header, Straight, 3 Position
P7	8800-127776	Header, Straight, 6 Position
R1	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R10, R11	8800-124485	Resistor, 20K, 1/2W, 5%
R12 - R19	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R2 - R8	8800-108109	Resistor, Carbon, 330 ohm, 1/4W, 5%
R20 - R26	8800-128588	Resistor, 1.2K, 1/2W, 5%
	8800-127366	IC Socket, 14 Pin, Amp 2-640357-3
	8800-304575	IC Socket, SIP Strip, 14 Position, Amp 643646-3
	8800-127375	IC Socket, 16 Pin, Amp 2-640358-3
	8800-124500	Spacer, #4-40 x 3/8
	8800-124537	Screw, Flat-Head Machine, #4-40 x 1/2
	8800-158554	Spacer, Nylon, #4 x 3/16
	8800-124528	Spacer, #4 x 3/16

IAD-8E DISPLAY ASSEMBLY

Ref No.	RTS Part No.	Description
C1 - C3	8800101197	Capacitor, Tantalum, 1uF, 35V, 20%
DS1 - DS8	8800124494	LED Display, 4-Character Alpha-numeric
IC1 - IC3	8800116261	IC, 8 Stage Shift/Store Register, CD4094B
IC4	8800126786	IC, Quad 2-Input NOR Gate, CD4001B
IC5	8800104247	IC, 8 Stage Static Shift Register, CD4021B
P1 - P6	8800124519	Header, Straight, 3 Position
P7	8800127776	Header, Straight, 6 Position
P8	8800124519	Header, Straight, 3 Position
R1	8800108001	Resistor, Carbon, 22K, 1/4W, 5%
R10 - R15	8800124485	Resistor, 20K, 1/2W, 5%
R2 - R9	8800108109	Resistor, Carbon, 330 ohm, 1/4W, 5%
RN1	8800107020	Resistor Network, Bussed, 22K x 5
	8800127366	IC Socket, 14 Pin, Amp 2-640357-3
	8800127375	IC Socket, 16 Pin, Amp 2-640358-3
	8800124500	Spacer, #4-40 x 3/8
	8800124537	Screw, Flat-Head Machine, #4-40 x 1/2
	8800124528	Spacer, #4 x 3/16
	8800104915	IC Socket, 28 Pin, Amp 2-640362-3
	8800128249	Header, Straight, 3 Position

IDD-8A DISPLAY ASSEMBLY

Ref No.	RTS Part No.	Description
C1 - C3	8800-101197	Capacitor, Tantalum, 1uF, 35V, 20%
IC1 - IC3	8800-116261	IC, 8 Stage Shift/Store Register, CD4094B
IC5	8800-104247	IC, 8 Stage Static Shift Register, CD4021B

IDD-8A DISPLAY ASSEMBLY		
Ref No.	RTS Part No.	Description
C1 - C3	8800-101197	Capacitor, Tantalum, 1uf, 35V, 20%
L1 - L8	8800-105362	LED, Red Super Bright, Stanley SBR-3931
P4 - P6	8800-124519	Header, Straight, 3 Position
P7	8800-127776	Header, Straight, 6 Position
R1	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R10, R11	8800-124485	Resistor, 20K, 1/2W, 5%
R12 - R19	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R2 - R9	8800-108109	Resistor, Carbon, 330 ohm, 1/4W, 5%
R20 - R27	8800-128588	Resistor, 1.2K, 1/2W, 5%
	8800-127375	IC Socket, 16 Pin, Amp 2-640358-3
	8800-124500	Spacer, #4-40 x 3/8
	8800-124537	Screw, Flat-Head Machine, #4-40 x 1/2
	8800-158554	Spacer, Nylon, #4 x 3/16
	8800-124528	Spacer, #4 x 3/16

PIB-32-3468 EXPANSION PANEL PUSHBUTTON INTERFACE ASSEMBLY		
Ref No.	RTS Part No.	Description
C1	8800-116243	Capacitor, Tantalum, 22uF, 16V, 20%
IC1, IC2	8800-104247	IC, 8 Stage Static Shift Register, CD4021B
P1	8800-103685	Header, Straight, 18 Position (4 Places)
P2	8800-116252	Header, Straight, 7 Position
R1	8800-107878	Resistor, Carbon, 10 ohm, 1/4W, 5%
R2, R3	8800-108190	Resistor, Carbon, 47K, 1/4W, 5%
R4	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R7-R22	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
	8800-127375	IC Socket, 16 Pin, Amp 2-640358-3

PMB-95 MOTHERBOARD ASSEMBLY		
Ref No.	RTS Part No.	Description
C101	8800-118009	Capacitor, Electrolytic, 4700uF, 50V, 20%
C102	8800-184320	Capacitor, Electrolytic, 1000uF, 50V, 20%
C103, C104	8800-100624	Capacitor, Ceramic, 1uF, 50V
C105, C106	8800-136249	Capacitor, Tantalum, 10uf, 35V, 20%
C108	8800-100624	Capacitor, Ceramic, 1uF, 50V
C109	8800-134580	Capacitor, Tantalum, 4.7uF, 35V, 20%
C110	8800-129195	Capacitor, Ceramic, 2,200pF, 100V, 10%
C111	8800-129186	Capacitor, Ceramic, 390pF, 100V, 10%
C112	8800-128908	Capacitor, Ceramic, 0.01uF, 63V, -20% +80%
C113	8800-100704	Capacitor, Ceramic, 0.022uF, 63V, -20% +80%
C114, C115	8800-183018	Capacitor, Tantalum, 22uf, 16V, 20%
C201, C202	8800-100508	Capacitor, Ceramic, 22pF, 100V, 2%, NPO
C203	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C204	8800-128908	Capacitor, Ceramic, 0.01uF, 63V, -20% +80%
C205, C206	8800-100624	Capacitor, Ceramic, 1uF, 50V
C207	8800-100508	Capacitor, Ceramic, 22pF, 100V, 2%, NPO
C208	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C209	8800-100624	Capacitor, Ceramic, 1uF, 50V
C210	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C211, C212	8800-100508	Capacitor, Ceramic, 22pF, 100V, 2%, NPO
C213	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C214, C215	8800-100624	Capacitor, Ceramic, 1uF, 50V
C216	8800-100508	Capacitor, Ceramic, 22pF, 100V, 2%, NPO

PMB-95 MOTHERBOARD ASSEMBLY		
Ref No.	RTS Part No.	Description
C217 - C219	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C220	8800-117705	Capacitor, Ceramic, 180pF, 100V, 10%
C221	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C222	8800-100866	Capacitor, Ceramic, 470pF, 100V, 10%
C223	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C224	8800-136249	Capacitor, Tantalum, 10uf, 35V, 20%
C225	8800-149510	Capacitor, Electrolytic, 470uF, 16V, 20%
C226	8800-136249	Capacitor, Tantalum, 10uf, 35V, 20%
C227	8800-100624	Capacitor, Ceramic, 1uF, 50V
C228, C229	8800-100704	Capacitor, Ceramic, 0.022uF, 63V, -20% +80%
C230	8800-101026	Capacitor, Electrolytic, 470uF, 50V, 20%
C231	8800-100964	Capacitor, Electrolytic, 100uF, 50V, 20%
C232, C233	8800-100624	Capacitor, Ceramic, 1uF, 50V
C240	8800-100964	Capacitor, Electrolytic, 100uF, 50V, 20%
C301, C302	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C303, C304	8800-183018	Capacitor, Tantalum, 22uf, 16V, 20%
C305	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C306, C307	8800-128542	Capacitor, Ceramic, 39pF, 100V, 2%, NPO
C308	8800-183018	Capacitor, Tantalum, 22uf, 16V, 20%
C309	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C310	8800-183018	Capacitor, Tantalum, 22uf, 16V, 20%
C311	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C312 - C14	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C315	8800-183018	Capacitor, Tantalum, 22uf, 16V, 20%
C316	8800-134562	Capacitor, Tantalum, 1uf, 35V, 20%
C317, C318	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C319 - C321	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C401	8800-100866	Capacitor, Ceramic, 470pF, 100V, 10%
C402, C403	8800-100759	Capacitor, Ceramic, 15pF, 100V, 2%, NPO
C404	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C405	8800-128891	Capacitor, Ceramic, 47pf, 100V, 2%
C406, C407	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C408	8800-100866	Capacitor, Ceramic, 470pF, 100V, 10%
C409, C410	8800-100759	Capacitor, Ceramic, 15pF, 100V, 2%, NPO
C411	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C412	8800-128891	Capacitor, Ceramic, 47pf, 100V, 2%
C413 - C416	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C417, C418	8800-303834	Capacitor, 1000pF
C419	8800-184712	Capacitor, Ceramic, 330pF, 100V, 2%, NPO
C420	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C421	8800-127516	Capacitor, Ceramic, 100pf, 100V, 2%
C422, C423	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C424	8800-127516	Capacitor, Ceramic, 100pf, 100V, 2%
C425, C426	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C427	8800-117705	Capacitor, Ceramic, 180pF, 100V, 10%
C428	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C429	8800-117705	Capacitor, Ceramic, 180pF, 100V, 10%
C430	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C431	8800-117705	Capacitor, Ceramic, 180pF, 100V, 10%
C432	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C433, C434	8800-129195	Capacitor, Ceramic, 2,200pF, 100V, 10%
C435	8800-123672	Capacitor, Ceramic, 33pF, 100V, 2%, NPO
C436	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C438	8800-123672	Capacitor, Ceramic, 33pF, 100V, 2%, NPO

PMB-95 MOTHERBOARD ASSEMBLY		
Ref No.	RTS Part No.	Description
C440	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C441	8800-123672	Capacitor, Ceramic, 33pF, 100V, 2%, NPO
C442	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C444	8800-123672	Capacitor, Ceramic, 33pF, 100V, 2%, NPO
C446	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C447	8800-183018	Capacitor, Tantalum, 22uF, 16V, 20%
C448	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C449	8800-100624	Capacitor, Ceramic, 1uF, 50V
C450, 451	8800-127516	Capacitor, Ceramic, 100pF, 100V, 2%
C452 - C455	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C456	8800-127516	Capacitor, Ceramic, 100pF, 100V, 2%
C457, C458	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C459	8800-128524	Capacitor, Ceramic, 10pF, 100V, 2%, NPO
C460	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C461	8800-128524	Capacitor, Ceramic, 10pF, 100V, 2%, NPO
C462	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C463	8800-128524	Capacitor, Ceramic, 10pF, 100V, 2%, NPO
C464, C465	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C466	8800-124467	Capacitor, Ceramic, 0.1uF, 50V, 20%
C467	8800-127428	Capacitor, Poly, 0.22uF, 100V, 10%
C468, C469	8800-136249	Capacitor, Tantalum, 10uF, 35V, 20%
C470	8800-183018	Capacitor, Tantalum, 22uF, 16V, 20%
C471	8800-100624	Capacitor, Ceramic, 1uF, 50V
C473	8800-116877	Capacitor, Ceramic, 1000pF, 100V, 10%
D101	8800-161434	Diode, Schottky, 3A, 20PRV, 1N5820
D105 - D108	8800-114771	Diode, 1A 400PRV, 1N5060
D201	8800-127393	Diode, Zener, 5.1V, 400mW, 5%, 1N751A
D301 - D303	8800-103015	Diode, 1N4148
D401, D402	8800-103122	Diode, Zener, 6.8V, 400mW, 5%, 1N754A
D403 - D412	8800-103015	Diode, 1N4148
D415 - D417	8800-103015	Diode, 1N4148
J201 - J203	8800-105148	Jumper, 2-Pos
J201 - J203	8800-129532	Header, .1SP, Berg 68000-103
J301	8800-105148	Jumper, 2-Pos
J301	8800-129523	Header, .1SP, Berg 68000-102
J401	8800-105148	Jumper, 2-Pos
J401, J402	8800-129523	Header, .1SP, Berg 68000-102
J403	8800-129532	Header, .1SP, Berg 68000-103
J403	8800-105148	Jumper, 2-Pos
J404 - J406	8800-303816	Jumper
L101	8800-299073	Coil Assy, 300uH
L102	8800-175161	Coil, 22uH
P1	8800-103774	Header, Straight, 5 Position
P10	8800-217385	Connector, Right Angle, 9 Pin
P11	8800-105059	Jack, Right Angle PC, Berg 66011-002
P12	8800-103658	Header, Straight, 10 Position
P13	8800-103667	Header, Straight, 11 Position
P14, P15	8800-127776	Header, Straight, 6 Position
P16	8800-128249	Header, Straight, 3 Position
P17	8800-127801	Header, Straight, 9 Position
P18	8800-103676	Header, Straight, 14 Position
P2	8800-127776	Header, Straight, 6 Position
P4	8800-127794	Header, Straight, 4 Position
P5	8800-128258	Header, Straight, 8 Position
P6 - P9	8800-128249	Header, Straight, 3 Position

PMB-95 MOTHERBOARD ASSEMBLY		
Ref No.	RTS Part No.	Description
Q301, Q302	8800-110258	Transistor, NPN Amplifier, MPSA06
Q401, Q402	8800-110258	Transistor, NPN Amplifier, MPSA06
R101	8800-252130	Resistor, 150 ohm, 2W, 5%
R102	8800-107501	Resistor, Metal Film, 2.74K, 1/4W, 1%
R103	8800-107903	Resistor, Carbon, 15K, 1/4W, 5%
R104	8800-126955	Resistor, Carbon, 1K, 1/4W, 5%
R201, R202	8800-129319	Resistor, Metal Film, 40.2K, 1/4W, 1%
R203	8800-107324	Resistor, Metal Film, 19.6K, 1/4W, 1%
R204	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R205	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R206	8800-107397	Resistor, Metal Film, 200K, 1/4W, 1%
R207	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R208	8800-107397	Resistor, Metal Film, 200K, 1/4W, 1%
R209	8800-107388	Resistor, Metal Film, 1M, 1/4W, 1%
R210, 211	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R212	8800-107841	Resistor, Carbon, 100K, 1/4W, 5%
R213	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R214, R215	8800-129319	Resistor, Metal Film, 40.2K, 1/4W, 1%
R216	8800-107324	Resistor, Metal Film, 19.6K, 1/4W, 1%
R217	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R218	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R219	8800-107397	Resistor, Metal Film, 200K, 1/4W, 1%
R220 - 224	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R225, R226	8800-107609	Resistor, Metal Film, 3.01K, 1/4W, 1%
R227	8800-294443	Resistor, 8.2 ohm, 2W, 5%
R228	8800-171977	Resistor, 2 ohm, 2W, 5%
R229	8800-107841	Resistor, Carbon, 100K, 1/4W, 5%
R230	8800-294443	Resistor, 8.2 ohm, 2W, 5%
R231	8800-172066	Resistor, 22 ohm, 2W, 5%
R232	8800-107841	Resistor, Carbon, 100K, 1/4W, 5%
R233	8800-126955	Resistor, Carbon, 1K, 1/4W, 5%
R234	8800-171977	Resistor, 2 ohm, 2W, 5%
R235	8800-172066	Resistor, 22 ohm, 2W, 5%
R236, R237	8800-107440	Resistor, Metal Film, 2.0K, 1/4W, 1%
R238	8800-127712	Resistor, Carbon, 3K, 1/4W, 5%
R301	8800-107244	Resistor, Metal Film, 100, 1/4W, 1%
R302, R303	8800-108001	Resistor, Carbon, 22K, 1/4W, 5%
R304, R305	8800-135115	Resistor, Carbon, 22 ohm, 1/4W, 5%
R306	8800-108190	Resistor, Carbon, 47K, 1/4W, 5%
R307	8800-126955	Resistor, Carbon, 1K, 1/4W, 5%
R308	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R309	8800-107841	Resistor, Carbon, 100K, 1/4W, 5%
R310	8800-108163	Resistor, Carbon, 3.3M, 1/4W, 5%
R311	8800-107878	Resistor, Carbon, 10 ohm, 1/4W, 5%
R312	8800-215733	Resistor, Metal Film, 20.0 ohm, 1/4W, 1%
R313 - 315	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R316	8800-135115	Resistor, Carbon, 22 ohm, 1/4W, 5%
R401, R402	8800-115048	Resistor, Metal Film, 75 ohm, 1/4W, 1%
R403, R404	8800-215733	Resistor, Metal Film, 20.0 ohm, 1/4W, 1%
R405	8800-108029	Resistor, Carbon, 27K, 1/4W, 5%
R406	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R407	8800-107565	Resistor, Metal Film, 36.5 ohm, 1/4W, 1%
R408	8800-107823	Resistor, Metal Film, 9.76K, 1/4W, 1%
R409	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R410, R411	8800-115048	Resistor, Metal Film, 75 ohm, 1/4W, 1%

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Ref No.	RTS Part No.	Description
R412, R413	8800-215733	Resistor, Metal Film, 20.0 ohm, 1/4W, 1%
R414	8800-108029	Resistor, Carbon, 27K, 1/4W, 5%
R415	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R416	8800-107565	Resistor, Metal Film, 36.5 ohm, 1/4W, 1%
R417	8800-107823	Resistor, Metal Film, 9.76K, 1/4W, 1%
R418	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R419 - 421	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R422	8800-126955	Resistor, Carbon, 1K, 1/4W, 5%
R423, 424	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R425	8800-108118	Resistor, Carbon, 33K, 1/4W, 5%
R426, R427	8800-107574	Resistor, Metal Film, 392K, 1/4W, 1%
R428	8800-107663	Resistor, Metal Film, 4.75K, 1/4W, 1%
R429	8800-259543	Resistor, Metal Film, 432K, 1/4W, 1%
R430	8800-161522	Resistor, Carbon, 1.2M, 1/4W, 5%
R431	8800-107556	Resistor, Metal Film, 36.5K, 1/4W, 1%
R432	8800-215868	Resistor, Metal Film, 162 ohm, 1/4W, 1%
R433	8800-107501	Resistor, Metal Film, 2.74K, 1/4W, 1%
R434	8800-107388	Resistor, Metal Film, 1M, 1/4W, 1%
R435	8800-107468	Resistor, Metal Film, 2.21K, 1/4W, 1%
R436	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R437	8800-108190	Resistor, Carbon, 47K, 1/4W, 5%
R438	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R439	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R440	8800-107716	Resistor, Metal Film, 562 ohm, 1/4W, 1%
R441	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R442	8800-107716	Resistor, Metal Film, 562 ohm, 1/4W, 1%
R443	8800-107789	Resistor, Metal Film, 6.81K, 1/4W, 1%
R444, R445	8800-107547	Resistor, Metal Film, 30.1 ohm, 1/4W, 1%
R446, 447	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R448, R449	8800-107716	Resistor, Metal Film, 562 ohm, 1/4W, 1%
R450	8800-107789	Resistor, Metal Film, 6.81K, 1/4W, 1%
R451, R452	8800-107547	Resistor, Metal Film, 30.1 ohm, 1/4W, 1%
R453	8800-252130	Resistor, 150 ohm, 2W, 5%
R454	8800-133206	Resistor, Metal Film, 27.4 ohm, 1/4W, 1%
R455	8800-107477	Resistor, Metal Film, 2.26K, 1/4W, 1%
R456	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R457	8800-107477	Resistor, Metal Film, 2.26K, 1/4W, 1%
R458, R459	8800-107333	Resistor, Metal Film, 1.0K, 1/4W, 1%
R460	8800-107510	Resistor, Metal Film, 301K, 1/4W, 1%
R461	8800-107636	Resistor, Metal Film, 499 ohm, 1/4W, 1%
R462	8800-107388	Resistor, Metal Film, 1M, 1/4W, 1%
R463	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R464	8800-107404	Resistor, Metal Film, 20.0K, 1/4W, 1%
R465	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R466	8800-126955	Resistor, Carbon, 1K, 1/4W, 5%
R467, 468	8800-107869	Resistor, Carbon, 10K, 1/4W, 5%
R469	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R470	8800-107280	Resistor, Metal Film, 150K, 1/4W, 1%
R471 - 473	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R474 - R477	8800-107681	Resistor, Metal Film, 4.99K, 1/4W, 1%
R478	8800-107627	Resistor, Metal Film, 47.5K, 1/4W, 1%
R479	8800-107306	Resistor, Metal Film, 16.2K, 1/4W, 1%
R480	8800-107244	Resistor, Metal Film, 100, 1/4W, 1%
R481, 482	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R483	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%

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Ref No.	RTS Part No.	Description
R484	8800-107495	Resistor, Metal Film, 2.43K, 1/4W, 1%
R485	8800-107235	Resistor, Metal Film, 100K, 1/4W, 1%
R486	8800-107468	Resistor, Metal Film, 2.21K, 1/4W, 1%
R487	8800-107388	Resistor, Metal Film, 1M, 1/4W, 1%
R488, R489	8800-107333	Resistor, Metal Film, 1.0K, 1/4W, 1%
R490	8800-107468	Resistor, Metal Film, 2.21K, 1/4W, 1%
R491, 492	8800-107253	Resistor, Metal Film, 10.0K, 1/4W, 1%
R493	8800-107422	Resistor, Metal Film, 27.4K, 1/4W, 1%
R494	8800-107397	Resistor, Metal Film, 200K, 1/4W, 1%
R495	8800-107333	Resistor, Metal Film, 1.0K, 1/4W, 1%
R496	8800-107556	Resistor, Metal Film, 36.5K, 1/4W, 1%
R497	8800-115397	Resistor, Carbon, 6.8M, 1/4W, 5%
R498	8800-107592	Resistor, Metal Film, 39.2K, 1/4W, 1%
R499	8800-107397	Resistor, Metal Film, 200K, 1/4W, 1%
RN301, RN302	8800-107011	Resistor Network, Isolated, 22 ohms x 5
RN303	8800-106986	Resistor Network, Bussed, 10K x 9
RN304 - RN306	8800-174206	Resistor Network, Bussed, 2.2K x 9
RN307	8800-106986	Resistor Network, Bussed, 10K x 9
RV201	8800-110472	Trimpot, Single-turn, 1K, Bourns 3329H-1-102
RV202	8800-295987	Trimpot, Single-turn, 1K, Bourns 3329W-1-102
RV203	8800-294425	Trimpot, Single-turn, 100K, Bourns 3329W-1-104
RV204	8800-110472	Trimpot, Single-turn, 1K, Bourns 3329H-1-102
RV205	8800-295987	Trimpot, Single-turn, 1K, Bourns 3329W-1-102
RV206	8800-294434	Trimpot, Single-turn, 1M, Bourns 3329W-1-105
RV207, RV208	8800-150981	Trimpot, Single-turn, 50K, Bourns 3329W-1-503
RV209	8800-294434	Trimpot, Single-turn, 1M, Bourns 3329W-1-105
RV401	8800-294728	Trimpot, Single-turn, 2K, Bourns 3329W-1-202
RV402	8800-110551	Trimpot, Single-turn, 500 ohms, Bourns 3329H-1-501
RV403	8800-294728	Trimpot, Single-turn, 2K, Bourns 3329W-1-202
RV404	8800-110551	Trimpot, Single-turn, 500 ohms, Bourns 3329H-1-501
RV405, RV406	8800-110490	Trimpot, Single-turn, 20K, Bourns 3329W-1-203
RV407	8800-150981	Trimpot, Single-turn, 50K, Bourns 3329W-1-503
RV408, RV409	8800-110506	Trimpot, Single-turn, 20K, Bourns 3329H-1-203
SCR-1	8800-102980	Diode, SCR, 16A, 200PRV, Motorola 2N6402
SW1	8800-109643	Switch, DIP, 8 Position
TP201 - TP204	8800-106637	Terminal Pin
TP401 - TP407	8800-106637	Terminal Pin
U101	8800-153087	IC, Regulator, +15V, TO-220V Pkg, 7815CT
U102	8800-104719	IC, Regulator, -15V, 7915CT
U103	8800-104700	IC, Switching Regulator, SGS L296
U201, U202	8800-104602	IC, Dual Low Noise Op-amp, TL072

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Ref No.	RTS Part No.	Description
U203	8800-104657	IC, Quad 2-Input NAND Gate, 74HC00N
U204, U205	8800-115128	IC, Triple 2-Channel Analog Mpx/Dmpx, CD4053B
U206	8800-104434	IC, Dual Op-amp, NE5532AN
U207	8800-294416	IC, Power Amp, TDA1521U
U301	8800-104470	IC, Tri-State Octal Buffer Line Driver, 74HC541
U302	8800-155049	IC, CMOS Microprocessor 1.5MHz, Hitachi HD63A03RP
U303	8800-104069	IC, Tri-State Octal D-Type Flip Flop, 74HC373
U304	8800-104657	IC, Quad 2-Input NAND Gate, 74HC00N
U305	9005-708603	IC, EPROM, Programmed (Specify version number from old EPROM when ordering replacement)
U306	8800-104078	IC, Octal D Latch, 74HC574N
U307	8800-104381	IC, BCD-to-Decimal Decoder, 74HC42
U308	8800-261433	IC, RS-422 Transceiver, Texas Instruments SN75176BP
U309	8800-138620	IC, Static RAM, 8K x 8, 150nS, Toshiba TC5565APL-15
U310	8800-104416	IC, Low Power Monostable/Astable Multivibrator, CD4047B
U311 - U314	8800-129426	IC, 8 Bit Parallel In Shift Register, 74HC165N
U401, U402	8800-158590	IC, Mic Preamp, SSM-2015
U403	8800-115128	IC, Triple 2-Channel Analog Mpx/Dmpx, CD4053B
U404 - U406	8800-104602	IC, Dual Low Noise Op-amp, TL072
U407	8800-115128	IC, Triple 2-Channel Analog Mpx/Dmpx, CD4053B
U408	8800-104602	IC, Dual Low Noise Op-amp, TL072
U409 - U412	8800-156529	IC, Op-amp, NE5534AN
U413	8800-104602	IC, Dual Low Noise Op-amp, TL072
U414	8800-104675	IC, Quad 2-Input NOR Gate, 74HC02
U415	8800-104979	IC, Voltage Controlled Amplifier, 1537A
U416, U417	8800-104602	IC, Dual Low Noise Op-amp, TL072
U418	8800-153078	IC, Regulator, +12V, 1A, 7812C
Y301	8800-102784	Crystal, 4.9152 MHz, Fox FOX049
	8800-104899	IC Socket, 20 Pin, Amp 2-640464-3
	8800-104906	IC Socket, 24 Pin, Amp 2-640361-3
	8800-104915	IC Socket, 28 Pin, Amp 2-640362-3
	8800-104924	IC Socket, 40 Pin
	8800-115351	Screw, Pan Head, #4-40 x 5/16 (U101 - U103)
	8800-121709	Nut, Hex, #4-40 x 3/16 (U101, U102)
	8800-121754	Washer, Lock, Split Ring, #4 (U101, U102)
	8800-127357	IC Socket, 8 Pin, Amp 2-640463-3
	8800-127366	IC Socket, 14 Pin, Amp 2-640357-3
	8800-127375	IC Socket, 16 Pin, Amp 2-640358-3
	8800-155478	Washer, Lock, Internal Tooth, #4 (U101 - U103)
	8800-158901	Heatsink, Thermly THM-6030B-TT (U101 - U103)
	8800-303479	Thermal Compound (As Required)

PPS-5 POWER SUPPLY ASSEMBLY		
Ref No.	RTS Part No.	Description
C1	8800-100447	Capacitor, Electrolytic, 2200uF, 40V, 20%
C2, C3	8800-134562	Capacitor, Tantalum, 1uf, 35V, 20%

PPS-5 POWER SUPPLY ASSEMBLY		
Ref No.	RTS Part No.	Description
D1-D6	8800-114771	Diode, 1A 400PRV, 1N5060
P1	8800-103836	Header, Straight, 3-Position
P2	8800-155806	Header, 2-Position
T1	8800-110169	Transformer, Power, 20V
VR1	8800-104808	IC, Regulator, +5V, TO-220V Pkg, 7805CT
	8800-148673	Jumper
	8800-115360	Nut, Kep, #4-40
	8800-158910	Heatsink, Transistor, Plastic .5"x.75", Thermly THM-6073B

PPS-95 POWER SUPPLY ASSEMBLY		
Ref No.	RTS Part No.	Description
D100	8800-102953	Diode Bridge, 25A, 200PIV
T1	8800-299153	Transformer, Power, 16V, 1A
F1	8800-129658	Fuse, 1A, 250V (For 110V units)
	8800-154978	Fuse, 6/10A, 250V (For 220V units)
J1	8800-101749	Connector, 5 Position
	8800-299625	AC Power Entry Module with Fuse and Switch

MISCELLANEOUS PARTS	
RTS Part No.	Description
8800-304414	LKA-1A Talk Key Assy (Talk Keys 1-8, TMC Type)
8800-109224	LKA-2B Talk Key Assy (Talk Keys 9-16, TMC Type)
8800-295996	Talk Key, Latching, Carling Type (Keys 1-15)
8800-296003	Talk Key, Non-Latching, Carling Type (Incoming Messages Key)
8800-157476	Knob, Volume, 21 mm (Large outer)
8800-117135	Pointer (For large outer knob)
8800-204914	Knob, Volume, 15 mm (Small inner)
8800-243720	Cap (For small inner knob)
8800-305994	Volume Control Pot, Dual 10K