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PARTS LIST 477-8031A

Side 1

NTP 477-8031A MOTHERBOARD

PARTS LIST

REF. NO.	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW. NO.	PART NO.
10	477-8037A	SMD COMPONENTS	1	477-8037A	477-8037A
11	KIF-2802	IC-SOCKET 28 PIN	1	AMP 640	640 362 3
12	477-5058A	EMC LIST	1	477-5058-A-4	477-5058A
C 1	CFN-0910	CAP ELECTROLYTIC 100UF/35V	1	NITSUKO	35EL(Z) 100
C 2	CFN-0910	CAP ELECTROLYTIC 100UF/35V	1	NITSUKO	35EL(Z) 100
C 3	CKB-0610	CAP POLYESTER 100NF/100V	1	WIMA MKS	MKS2 100N/100V
C 4	CKB-0610	CAP POLYESTER 100NF/100V	1	WIMA MKS	MKS2 100N/100V
C 5	CKB-0610	CAP POLYESTER 100NF/100V	1	WIMA MKS	MKS2 100N/100V
C 6	CGG-0910	CAP ELECTROLYTIC 100UF/25V	1	PANASONIC SU	100UF / 25V
C 7	CKB-0410	CAP POLYESTER 1NF/100V	1	WIMA FKS	ECE A50 G 010
C 8	CFN-0910	CAP ELECTROLYTIC 100UF/35V	1	NITSUKO	35EL(Z) 100
C 9	CFN-0910	CAP ELECTROLYTIC 100UF/35V	1	PANASON. K RAD	ECE A50 G 010
C 10	CGK-0710	CAP ELECTROLYTIC 1U/50V	1	PANASON. K RAD	ECE A50 G 010
C 11	CGK-0710	CAP ELECTROLYTIC 1U/50V	1	MATSUSHITA LS	LS 1000U/25V
C 12	CGD-1010	CAP ELECTROLYTIC 1000U/25V	1	MURATA TZB04C	TZB 04 R 200AC
C 13	CVC-0001	MINIATURE TRIMMER CAPACITOR	1	MURATA TZB04C	TZB 04 R 200AC
C 14	CVC-0001	MINIATURE TRIMMER CAPACITOR	1	PANASONIC SU	100UF / 25V
C 15	CGG-0910	CAP ELECTROLYTIC 100UF/25V	1	PANASONIC SU	100UF / 25V
C 16	CGG-0910	CAP ELECTROLYTIC 100UF/25V	1	ECC SXG	10UF/25V
C 17	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 18	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 19	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 20	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 21	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 22	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 23	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 24	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 25	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 26	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 27	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 28	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 29	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
C 30	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
Cx 11	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
Cx 12	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
Cx 13	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
Cx 14	CFC-0810	CAP ELECTROLYTIC 10UF 25V 20	1	ECC SXG	10UF/25V
D 1	QDS-0027	DIODE, FAST RECOVERY	1	PHILIPS BYV27	BYV27
D 2	QDS-0027	DIODE, FAST RECOVERY	1	PHILIPS BYV27	BYV27
D 3	QDS-0026	DIODE, VERY FAST RECOVERY	1	PHILIPS BYV 26	BYV 26C

**NTP Parts List**as of date 9-2-1994  
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Side 2

NTP 477-8031A MOTHERBOARD

PARTS LIST

REF. NO.	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO. PART NO.
D 4	QDS-0026	DIODE, VERY FAST RECOVERY	1	PHILLIPS BYV 26
D 5	QDS-0026	DIODE, VERY FAST RECOVERY	1	PHILLIPS BYV 26
D 6	QDS-0027	DIODE, FAST RECOVERY	1	PHILLIPS BYV27
D 10	QTZ-0005	TRANSIENTDIODE 5V	1	THOMSON ICTE-5SC
IC 1	TLR-293705	VOLTAGER REG 5V POS LOW DROP	1	NATIONAL LM2937ET-5.0
IC 2	ILR-3845	PWM CONTROLLER	1	UNITRODE UC 3845N
IC 8	IMP-27512B	PROM	1	NATIONAL NM NM27C512Q 150
J 1	KEM-0801	EURO CON 8P MALE, ON BOARD	1	AMP 0-215464-8
J 2	KEM-0801	EURO CON 8P MALE, ON BOARD	1	AMP 0-215464-8
J 3	KEM-0801	EURO CON 8P MALE, ON BOARD	1	AMP 0-215464-8
J 4	KEM-0801	EURO CON 8P MALE, ON BOARD	1	AMP 0-215464-8
J 5	KEF-2001	EURO CON 20P FEMALE, TOP ENT	1	AMP 2-215079-0
L 1	277-3070	CHOKE	1	277-3070-A-4
Q 1	QFN-1015	N-CHANNEL POWER MOSFET	1	RCA RFP 10N15
R 14	RTC-1370	RESISTOR PTC 3R7	1	PTC Q63100 P2390 C950
RN 1	RAJ-5100	RESISTOR NETWORK 10K 2%	1	SIL 9PI REK 4609X-101-103
RN 101	RAA-5470	RESISTOR NETWORK 47K 2%	1	SIL 6PIN REK 4306R 101 473
TR 1	477-8051A	TRANSFORMATOR	1	477-8051-A-4
TR 101	LTH-0001B	INPUTTRANSFORMER W/HOUSING	1	HAUFE ST5146/1 ST 5146/1 T.A
TR 102	LTH-0001B	INPUTTRANSFORMER W/HOUSING	1	HAUFE ST5146/1 ST 5146/1 T.A
XT 1	PQX-0116B	CRYSTAL 16MHZ	1	NDK AT51 16MHZ
XT 2	PQX-0025	CRYSTAL 20,5 MHZ	1	ESKA HC 49 HC 49/US
XT 101	PQX-0112C	CRYSTAL 12.288MHZ	1	ESKA HC 49/US

**NTP Parts List**

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SLUT

PARTS LIST 477-8031A

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NTP 477-8037A PARTS LIST 477-8037A

Side 1

## SMD COMPONENTS

## PARTS LIST

REF.NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO.	PART NO.
C 8	XCCD-0510GD	CAP CERAMIC 50V 10NF 20%	1	SIEMENS B37709	J5103 M9
C 9	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 12	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
C 13	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 14	XCCD-0510GD	CAP CERAMIC 50V 10NF 20%	1	SIEMENS B37709	J5103 M9
C 18	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
C 19	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 20	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 26	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 27	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 35	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 37	XCCD-0247G	CAP CERAMIC 50V 47PF 20%	1	SIEMENS B37871	K5470-J62
C 103	XCEC-0182E	CAP CERAMIC 200V 8,2PF 5%	1	AVX/KYOCERA	2A 8R2 CAT 00J
C 104	XCEC-0182E	CAP CERAMIC 200V 8,2PF 5%	1	AVX/KYOCERA	2A 8R2 CAT 00J
C 107	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
C 108	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
C 109	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 110	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 113	XCCD-0247G	CAP CERAMIC 50V 47PF 20%	1	SIEMENS B37871	K5470-J62
C 114	XCCD-0247G	CAP CERAMIC 50V 47PF 20%	1	SIEMENS B37871	K5470-J62
C 119	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 120	XCCD-0347G	CAP CERAMIC 50V 470PF 20%	1	PHILLIPS	2222 863 15471
C 122	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 123	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 125	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 127	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 128	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 130	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 131	XCCD-0222F	CAP CERAMIC 63V 22PF 5%	1	SIEMENS B37871	K5220-J62
C 133	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62
C 136	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
C 137	XCCD-0310E	CAP CERAMIC 63V 100PF 5%	1	ROEDERSTEIN	PCC106P 100P5%
CX 1	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873	K5104 M62

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NTP 477-8037A PARTS LIST 477-8037A

Side 2

## SMD COMPONENTS

## PARTS LIST

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO.	PART NO.
CX 2	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 3	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 4	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 5	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 6	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 7	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 8	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 9	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 10	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
Cx 11	XCCD-0610GC	CAP CERAMIC .50V 100NF 20%	1	SIEMENS B37873	K5104 M62
D 7	XQDS-0028T	SI-SWITCHING DIODE ARRAY	1	SIEMENS BAS28	Q62702 A163
D 9	XQDS-0017F	DIODE, HIGH CURRENT	1	PHILLIPS	BYD17D-115
D 11	XQDS-0028T	SI-SWITCHING DIODE ARRAY	1	SIEMENS BAS28	Q62702 A163
D 101	XQZD-0056B	ZENER DIODE 5V6	1	PHILLIPS	BZX84C5V6
D 102	XQZD-0047B	ZENER DIODE 4V7	1	PHILLIPS	BZX84C4V7
IC 3	XIMP-9356A	SERIAL EEPROM	1	MICROCHIP	93C56-1/SN
IC 4	XILS-33064A	UNDERVOLTAGE SENSE CIRCUIT	1	MOTOROLA	MC 33064
IC 5	XIPP-56001L	DIGITAL SIGNAL PROCESSOR	1	MOTOROLA	M56001-20 QFP
IC 6	XIPP-80528C	MICROPROCESSOR	1	PHILLIPS	P 80C528 FBAA
IC 7	XICB-0373A	LATCH 8-BIT	1	RCA	CD74HC373M
IC 10	XICB-0245A	OCTAL TRANSCIEVER 3 STATE	1	PHILLIPS	PC74HC245T
IC 11	XICB-0086A	QUAD 2-INPUT EXC-OR	1	RCA	PC74HC86
IC 12	XICB-0132A	QUAD Z-INPUT SCHMITT NAND GA	1	HARRIS	74HC132 SMD
IC 13	XICB-0377A	OCTAL D-TYPE FLIP FLOP	1	HARRIS	CD74HC377 SMD
IC 101	XILLA-0275A	DUAL OPERATIONAL AMPLIFIER	1	ANALOG DEV	OP 275GS
IC 102	XILLA-0275A	DUAL OPERATIONAL AMPLIFIER	1	NATIONAL	OP 275GS
IC 103	XICA-4066A	ANALOG SWITCH	1	NATIONAL	CD 4066 BCM
IC 104	XICA-4066A	ANALOG SWITCH	1	NATIONAL	CD 4066 BCM
IC 105	XILLA-339A	QUAD COMPARATOR	1	NATIONAL SEMIC	LM339 SO
IC 106	XIIC-5349A	DUAL A/D CONV 16-BIT SING SU	1	CRYSTAL	CS5349 -KS SO
IC 107	XICB-4520A	DUAL 4-BIT BINARY COUNTER	1	PHILLIPS	74HC4520 SO16
IC 108	XICB-0086A	QUAD 2-INPUT EXC-OR	1	PHILLIPS	PC74HC86
IC 109	XICB-0595A	8-BIT SFT REG W 3-STATE OUTR	1	TEXAS	74HC595SMD

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 NTP 477-8037A SMD COMPONENTS

PARTS LIST  
 Side 3

PARTS LIST 477-8037A

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW. NO.	PART NO.
IC 110	XILR-0317A	VOLTAGE REGULATOR	1	NATIONAL	LM317LM
IC 111	XILA-2043A	H.PERF LOW NOISE DUAL OPER.A	1	RAYTHE	JRC NJM 2043M
P 1	XRFB-3500G	POTENIOMETER 500R 2%	1	TOCOS	G4 A 501 M
PCB	477-8040A	PRINTED CIRCUIT BOARD	1	CAD	477-8040A
Q 2	XQBP-0857B	TRANSISTOR PNP	1	PHILIPS	BC857B
Q 3	XQBN-0847B	TRANSISTOR NPN	1	PHILIPS	BC847B
R 2	XRMD-4221C	RESISTOR METAL 2.21K 1%	1	PHILIPS	02G
R 3	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS	02G
R 4	XRMD-1100E	RESISTOR METAL 1.0R 5%	1	PHILIPS	02G 2.21K1%
R 5	XRMD-1100E	RESISTOR METAL 1.0R 5%	1	PHILIPS	02G 10.0R1%
R 6	XRMD-1100E	RESISTOR METAL 1.0R 5%	1	PHILIPS	RC01 1.0R 5%
R 7	XRMD-1100E	RESISTOR METAL 1.0R 5%	1	PHILIPS	RC01 1.0R 5%
R 8	XRMD-4165C	RESISTOR METAL 1206 1.65K 1%	1	PHILIPS	RC01
R 9	XRMD-4499C	RESISTOR METAL 4.99K 1%	1	PHILIPS	RC 02G
R 10	XRMD-6100C	RESISTOR METAL 100K 1%	1	PHILIPS	RC 02G
R 11	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 1.65K1%
R 12	XRMD-4499C	RESISTOR METAL 4.99K 1%	1	PHILIPS	RC 02G 4.99K1%
R 13	XRMD-6267C	RESISTOR METAL 267K 1%	1	PHILIPS	RC 02G 24K9 1%
R 15	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS	RC 02G 4.99K1%
R 16	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS	RC 02G 100R1%
R 17	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS	RC 02G 24K9 1%
R 18	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 10.0R1%
R 19	XRMD-6680E	RESISTOR METAL 680K 5%	1	PHILIPS	RC 02G 24K9 1%
R 20	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS	RC01 680K 5%
R 21	XRMD-4221C	RESISTOR METAL 2.21K 1%	1	PHILIPS	RC 02G 100R1%
R 23	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 2.21K1%
R 24	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 24K9 1%
R 25	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 24K9 1%
R 26	XRMD-4221C	RESISTOR METAL 2.21K 1%	1	PHILIPS	RC 02G 24K9 1%
R 27	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS	RC 02G 2.21K1%
R 28	XRMD-6267C	RESISTOR METAL 267K 1%	1	PHILIPS	RC 02G 24K9 1%
R 29	XRMD-4221C	RESISTOR METAL 2.21K 1%	1	PHILIPS	RC 02G 267K1%
R 30	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS	RC 02G 2.21K1%

## NTP Parts List

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NTP 477-8037A PARTS LIST

Side 4

NTP SMD COMPONENTS

REF. NO.	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO.	PART NO.
R 31	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 32	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 33	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS RC 02G	RC 02G 24K9 1%
R 34	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 35	XRMD-4221C	RESISTOR METAL 2.21K 1%	1	PHILIPS RC 02G	RC 02G 2.21K1%
R 36	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS RC 02G	RC 02G 24K9 1%
R 38	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 40	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 41	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 42	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS RC 02G	RC 02G 24K9 1%
R 43	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 44	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 45	XRMD-5249C	RESISTOR METAL 1206 24K9 1%	1	PHILIPS RC 02G	RC 02G 24K9 1%
R 48	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 49	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 101	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 102	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 103	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 104	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 105	XRMD-4348C	RESISTOR METAL 3.48K 1%	1	PHILIPS RC 02G	RC 02G 3.48K1%
R 106	XRMD-4348C	RESISTOR METAL 3.48K 1%	1	PHILIPS RC 02G	RC 02G 3.48K1%
R 107	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 108	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 109	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 110	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 111	XRMD-4348C	RESISTOR METAL 3.48K 1%	1	PHILIPS RC 02G	RC 02G 3.48K1%
R 112	XRMD-4348C	RESISTOR METAL 3.48K 1%	1	PHILIPS RC 02G	RC 02G 3.48K1%
R 113	XRMD-4402C	RESISTOR METAL 1206 4.02K 1%	1	PHILIPS RC 02G	RC 02G 4.02K1%
R 114	XRMD-4402C	RESISTOR METAL 1206 4.02K 1%	1	PHILIPS RC 02G	RC 02G 4.02K1%
R 115	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 116	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 117	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 118	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%

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NTP 477-8037A PARTS LIST 477-8037A

Side 5

NTP 477-8037A SMD COMPONENTS

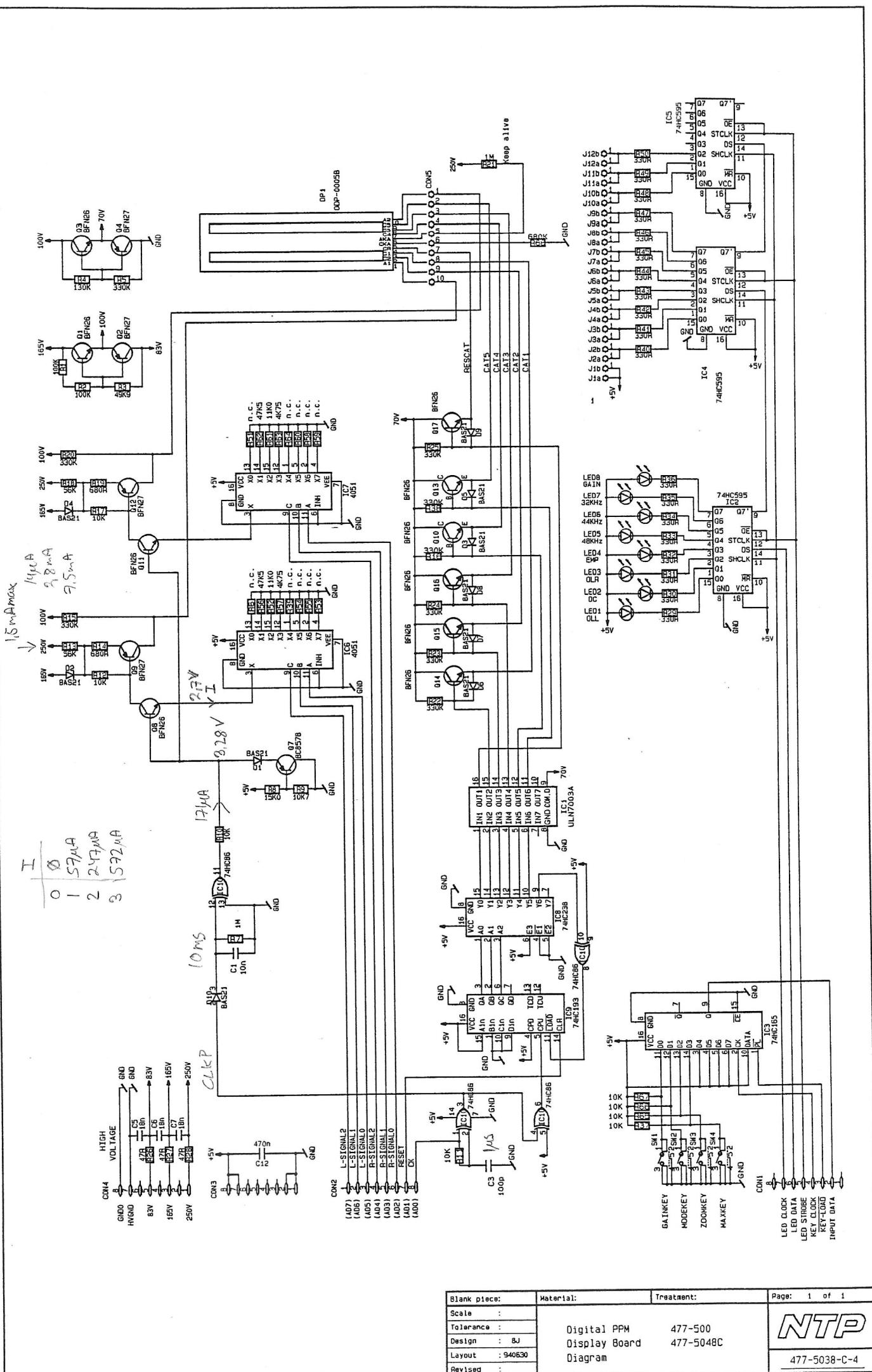
## PARTS LIST

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO.	PART NO.
R 119	XRMD-4604C	RESISTOR METAL 1206 6.04K 1%	1	PHILIPS RC 02G	RC 02G 6.04K1%
R 120	XRMD-4604C	RESISTOR METAL 1206 6.04K 1%	1	PHILIPS RC 02G	RC 02G 6.04K1%
R 121	XRMD-4249C	RESISTOR METAL 2.49K 1%	1	PHILIPS RC 02G	RC 02G 2.49K1%
R 122	XRMD-4249C	RESISTOR METAL 2.49K 1%	1	PHILIPS RC 02G	RC 02G 2.49K1%
R 123	XRMD-5348C	RESISTOR METAL 34.8K 1%	1	PHILIPS RC 02G	RC 02G 34.8K1%
R 124	XRMD-5348C	RESISTOR METAL 34.8K 1%	1	PHILIPS RC 02G	RC 02G 34.8K1%
R 125	XRMD-4604C	RESISTOR METAL 1206 6.04K 1%	1	PHILIPS RC 02G	RC 02G 6.04K1%
R 126	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 127	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 128	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 129	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 130	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 131	XRMD-4402C	RESISTOR METAL 1206 4.02K 1%	1	PHILIPS RC 02G	RC 02G 4.02K1%
R 133	XRMD-3100C	RESISTOR METAL 100R 1%	1	PHILIPS RC 02G	RC 02G 100R1%
R 135	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%
R 136	XRMD-6680E	RESISTOR METAL 680K 5%	1	PHILIPS RC01	RC01 680K 5%
R 137	XRMD-4165C	RESISTOR METAL 1206 1.65K 1%	1	PHILIPS RC 02G	RC 02G 1.65K1%
R 138	XRMD-3243C	RESISTOR METAL 243R 1%	1	PHILIPS RC 02G	RC 02G 243R1%
R 139	XRMD-4165C	RESISTOR METAL 1206 1.65K 1%	1	PHILIPS RC 02G	RC 02G 1.65K1%
R 140	XRMD-5100C	RESISTOR METAL 10.0K 1%	1	PHILIPS RC 02G	RC 02G 10.0K1%

**NTP Parts List**as of date 27-9-1995.Page 5 of 5.List No.: 477-8037-A-4

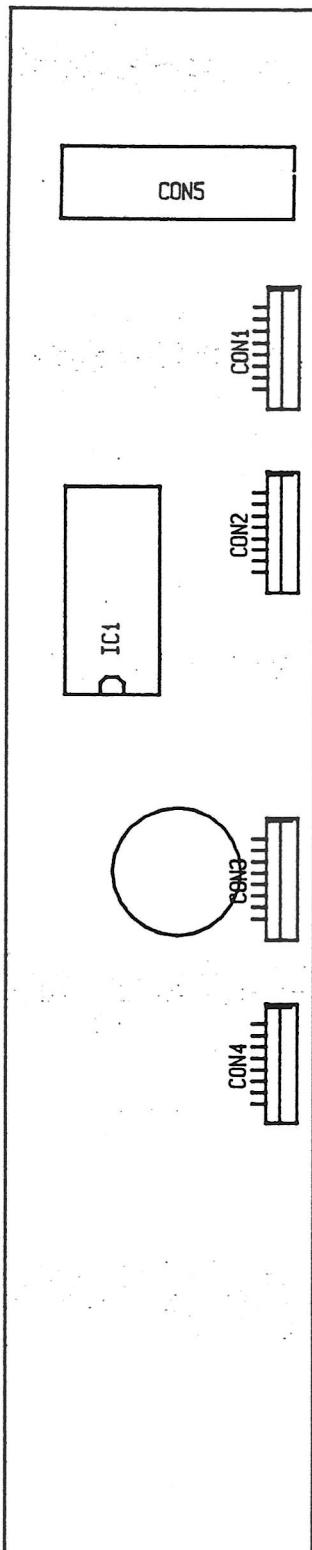
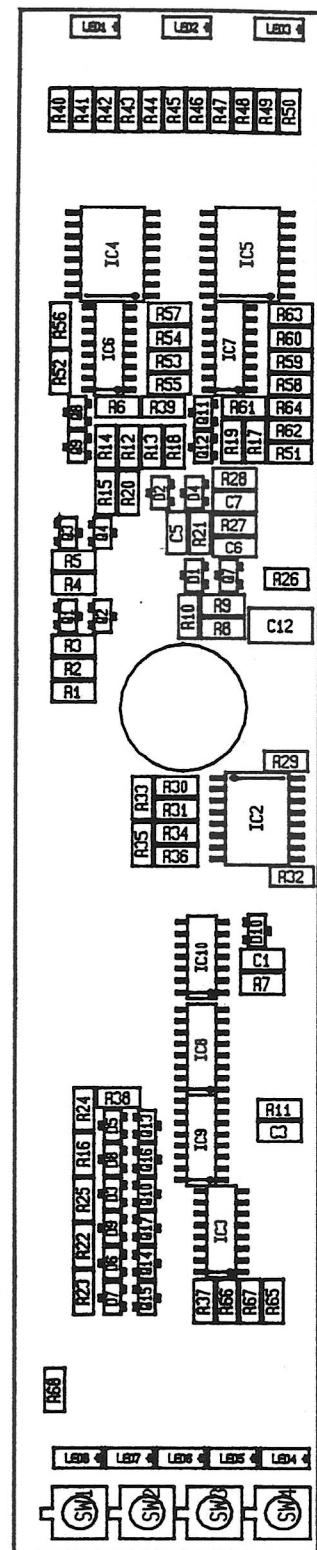
SLUT

PARTS LIST 477-8037A



Blank piece:	Material:	Treatment:	Page: 1 of 1
Scale :			
Tolerance :	Digital PPM	477-500	
Design :	Display Board	477-5048C	
Layout : 940530	Diagram		
Revised :			477-5038-C-4

NTP 477-5048C-11 941116



Blank piece:	Material:	Treatment:	Page
Scale :			1 of 1
Tolerance :	Digital PPM	477-500A	
Design : HEN	Display Board	477-5048C	
Layout : 941121	Components Layout		
Revised :			
			<b>NTP</b>
			477-5049-C-4

Multi 05.01.95 8:48 PARTS LIST 477-5039C Side 1

NTP 477-5039C DISPLAY BOARD

PARTS LIST

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW. NO.	PART NO.
10	477-5033C	PRIN W SMD COMPONENTS	1	477-5018-C-4	477-5033C
CON 1	KEF-0802	EURO CON 8P FEMALE, SIDE ENT	1	AMP 0-215460-8	0-215460-8
CON 2	KEF-0802	EURO CON 8P FEMALE, SIDE ENT	1	AMP 0-215460-8	0-215460-8
CON 3	KEF-0802	EURO CON 8P FEMALE, SIDE ENT	1	AMP 0-215460-8	0-215460-8
CON 4	KEF-0802	EURO CON 8P FEMALE, SIDE ENT	1	AMP 0-215460-8	0-215460-8
CON 5	KMF-1003	MOLEX CONN. MALE 10 POLE	1	MOLEX 4455-10B	4455 22-14-210
DP 1	ODP-0005B	BARGRAPH-DISPLAY 200 SEG.	1	BABCOCK	SP-410-007
IC 1	ILS-7003	TRANSISTOR ARRAY	1	SPR. ULM-7003A	ULN-7003
LED 1	OES-0139	LED, RED	1	HP	HLMP-S201
LED 2	OES-0139	LED, RED	1	HP	HLMP-S201
LED 3	OES-0139	LED, RED	1	HP	HLMP-S201
LED 4	OES-0138	LED, GREEN	1	HP	HLMP-S501
LED 5	OES-0138	LED, GREEN	1	HP	HLMP-S501
LED 6	OES-0138	LED, GREEN	1	HP	HLMP-S501
LED 7	OES-0138	LED, GREEN	1	HP	HLMP-S501
LED 8	OES-0139	LED, RED	1	HP	HLMP-S201
SW 1	477-5057A	MODIFIED SWITCH	1	477-5057-A-4	477-5057A
SW 2	477-5057A	MODIFIED SWITCH	1	477-5057-A-4	477-5057A
SW 3	477-5057A	MODIFIED SWITCH	1	477-5057-A-4	477-5057A
SW 4	477-5057A	MODIFIED SWITCH	1	477-5057-A-4	477-5057A

**NTP Parts List**

as of date 5 - / 1995.

Page / of /.

List No.: 477-5039-C-4

SLUT

PARTS LIST 477-5039C

Multi 02.08.95 11: 0

NTP 477-5033C PARTS LIST 477-5033C

Side 1

NTP-ID. PRIN W SMD COMPONENTS

REF.NO	NTP-ID.	DESCRIPTION	QTY	PARTS LIST	MANUFACT/DRW.NO. PART NO.
C 1	XCCD-0510FB	CAP CERAMIC 63V 10NF 10%	X7	1 ROEDERST	PCZ 106P310JKB
C 3	XCCD-0310E	CAP CERAMIC 63V 100PF 5%		1 ROEDERSTEIN	PCC106P 100P5%
C 5	X CDDL-0518GC	CAP CERAMIC 100V 18NF 20%	1	SIEMENS B37872	J1183 M9
C 6	X CDDL-0518GC	CAP CERAMIC 100V 18NF 20%	1	SIEMENS B37872	J1183 M9
C 7	X CDDL-0518GC	CAP CERAMIC 100V 18NF 20%	1	SIEMENS B37872	J1183 M9
C 12	XCCG-0647GC	CAP CERAMIC 50V 470NF 20%	1	SIEMENS B37872	J1183 M9
D 1	XQDS-0021B	DIODE, GENERAL PURPOSE	1	SIEMENS B37954	K5474 M62
D 2	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 3	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 4	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 5	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 6	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 7	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 8	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 9	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
D 10	XQDS-0021B	DIODE, GENERAL PURPOSE	1	PHILLIPS	BAS 21
IC 2	XICB-0595A	8-BIT SFT REG W 3-STATE OUTR	1	TEXAS	74HC595SMD
IC 3	XICB-0165A	8-BIT PARALL IN/SER OUT SHFT	1	HARRIS	CD74HC165SMD
IC 4	XICB-0595A	8-BIT SFT REG W 3-STATE OUTR	1	TEXAS	74HC595SMD
IC 5	XICB-0595A	8-BIT SFT REG W 3-STATE OUTR	1	TEXAS	74HC595SMD
IC 6	XICA-4051A	ANALOG MULTIPLEXER	1	MOTOROLA	MC 14051BD
IC 7	XICA-4051A	ANALOG MULTIPLEXER	1	MOTOROLA	MC 14051BD
IC 8	XICB-0238A	3-8 LINE DECODER	1	PHILLIPS	74HC238T SO
IC 9	XICB-0193A	UP/DOWN BINARY COUNTER	1	PHILLIPS	74HC193 S016
IC 10	XICB-0086A	QUAD 2-INPUT EXC-OR	1	PHILLIPS	PC74HC86
PCB 1	477-5048C	PC BOARD	1	CAD	477-5048C
Q 1	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 2	XQBP-0027B	HIGH VOLTAGE SI-TRANSISTOR P	1	SIEMENS BFN27	Q62702-F751
Q 3	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 4	XQBP-0027B	HIGH VOLTAGE SI-TRANSISTOR P	1	SIEMENS BFN27	Q62702-F751
Q 7	XQBP-0857B	TRANSISTOR PNP	1	PHILLIPS	BC857B
Q 8	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 9	XQBP-0027B	HIGH VOLTAGE SI-TRANSISTOR P	1	SIEMENS BFN27	Q62702-F751

**NTP Parts List**as of date 2-8-1995.Page / of 4.

List No.: #77-5033-C-4

Multi 02.08.95 11: 0  
NTP 477-5033C PRIN W SMD COMPONENTS

PARTS LIST  
Side 2

REF.NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW NO.	PART NO.
Q 10	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 11	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 12	XQBP-0027B	HIGH VOLTAGE SI-TRANSISTOR P	1	SIEMENS BFN27	Q62702-F751
Q 13	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 14	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 15	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 16	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
Q 17	XQBN-0026B	SI-TRANSISTOR HIGH VOLTAGE N	1	SIEMENS BFN26	Q62702-F750
R 1	XRMD-6100E	RESISTOR METAL 100K 5%	1	PHILLIPS RC01	RC01 100K 5%
R 2	XRMD-6100E	RESISTOR METAL 100K 5%	1	PHILLIPS RC01	RC01 100K 5%
R 3	XRMD-5499C	RESISTOR METAL 49.9K 1%	1	PHILLIPS RC01	RC01 49.9K 1%
R 4	XRMD-6130C	RESISTOR METAL 1206 130K 1%	1	PHILLIPS RC 02G	RC 02G 130K 1%
R 5	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 6	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000	XRMD-0000
R 7	XRMD-7100E	RESISTOR METAL 1M 5%	1	PHILLIPS RC01	RC01 1M 5%
R 8	XRMD-5150C	RESISTOR METAL 15.0K 1%	1	PHILLIPS RC 02G	RC 02G 15.0K1%
R 9	XRMD-5107C	RESISTOR METAL 1206 10K7 1%	1	PHILLIPS RC 02G	RC 02G 10K7 1%
R 10	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILLIPS RC01	RC01 10K 5%
R 11	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILLIPS RC01	RC01 10K 5%
R 12	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILLIPS RC01	RC01 10K 5%
R 13	XRMD-5560E	RESISTOR METAL 56K 5%	1	PHILLIPS RC01	RC01 56K 5%
R 14	XRMD-3866C	RESISTOR METAL 866R 1%	1	PHILLIPS RC02H	RC02 866R 1%
R 15	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 16	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 17	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILLIPS RC01	RC01 10K 5%
R 18	XRMD-5560E	RESISTOR METAL 56K 5%	1	PHILLIPS RC01	RC01 56K 5%
R 19	XRMD-3866C	RESISTOR METAL 866R 1%	1	PHILLIPS RC02H	RC02 866R 1%
R 20	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 21	XRMD-7100E	RESISTOR METAL 1M 5%	1	PHILLIPS RC01	RC01 1M 5%
R 22	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 23	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 24	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%
R 25	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01	RC01 330K 5%

## NTP Parts List

as of date 2-8 1995.

Page 2 of 4.

List No.: 477-5033-C-4

Multi 02.08.95 11: 0

NTP 477-5033C PARTS LIST 477-5033C

Side 3

## PRIN W SMD COMPONENTS

## PARTS LIST

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO. PART NO.
R 26	XRMD-2470E	RESISTOR METAL 47R 5%	1	PHILLIPS RC01
R 27	XRMD-2470E	RESISTOR METAL 47R 5%	1	PHILLIPS RC01
R 28	XRMD-2470E	RESISTOR METAL 47R 5%	1	PHILLIPS RC01
R 29	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 30	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 31	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 32	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 33	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 34	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 35	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 36	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 37	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILLIPS RC01
R 38	XRMD-6330E	RESISTOR METAL 330K 5%	1	PHILLIPS RC01
R 39	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000
R 40	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 41	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 42	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 43	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 44	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 45	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 46	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 47	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 48	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 49	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 50	XRMD-3330E	RESISTOR METAL 330R 5%	1	PHILLIPS RC01
R 51	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000
R 52	XRMD-5110C	RESISTOR METAL 11.0K 1%	1	PHILLIPS RC 02G
R 53	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000
R 54	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000
R 55	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000
R 56	XRMD-5475C	RESISTOR METAL 1206 47K5 1%	1	PHILLIPS RC 02G
R 57	XRMD-4475C	RESISTOR METAL 4.75K 1%	1	PHILLIPS RC 02G
R 58	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000

**NTP Parts List**as of date 2-8 1995.Page 3 of 4.List No.: 477-5033-C-4

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NTP 477-5033C PARTS LIST

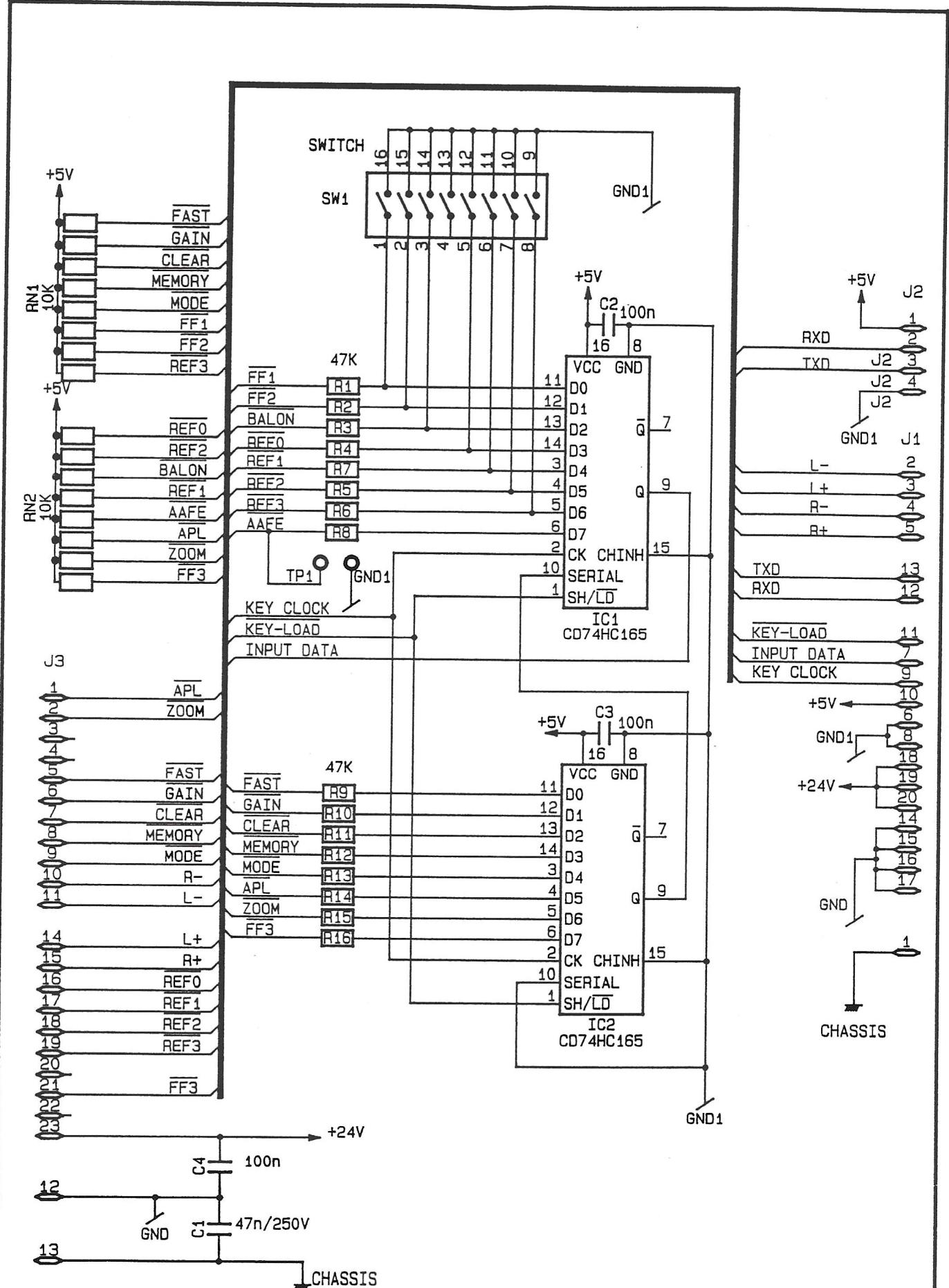
Side 4

NTP 477-5033C PRIN W SMD COMPONENTS

PARTS LIST

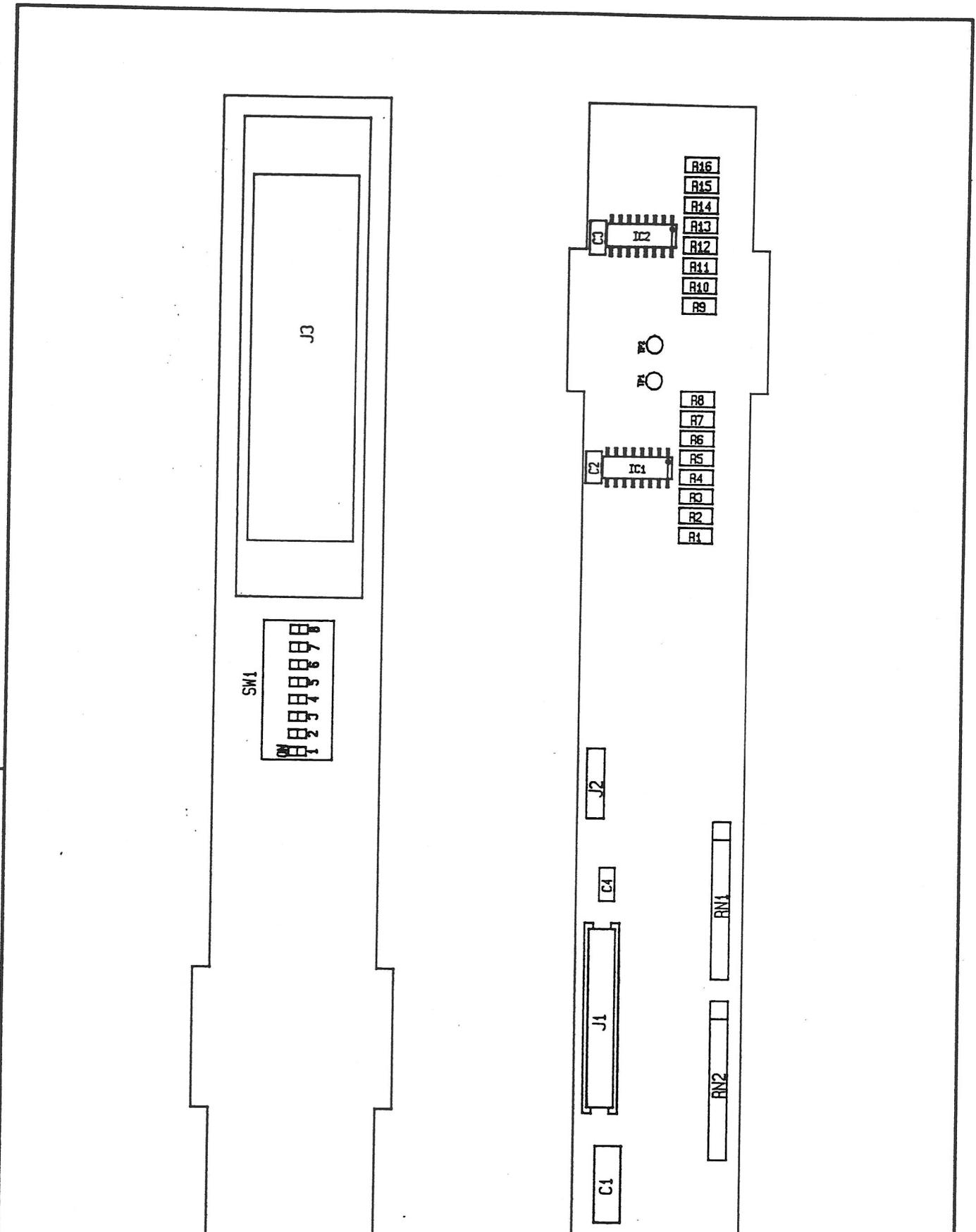
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R 59	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000	XRMD-0000
R 60	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000	XRMD-0000
R 61	XRMD-5110C	RESISTOR METAL 11.0K 1%	1	PHILIPS RC 02G	RC 02G 11.0K1%
R 62	XRMD-5475C	RESISTOR METAL 1206 47K5 1%	1	PHILIPS RC 02G	RC 02G 47K5 1%
R 63	XRMD-4475C	RESISTOR METAL 4.75K 1%	1	PHILIPS RC 02G	RC 02G 4.75K1%
R 64	XRMD-0000	RESISTOR, NOT USED	1	XRMD-0000	XRMD-0000
R 65	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILIPS RC01	RC01 10K 5%
R 66	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILIPS RC01	RC01 10K 5%
R 67	XRMD-5100E	RESISTOR METAL 10K 5%	1	PHILIPS RC01	RC01 10K 5%
R 68	XRMD-6680E	RESISTOR METAL 680K 5%	1	PHILIPS RC01	RC01 680K 5%

**NTP Parts List**as of date 2-8-1995.Page 4 of 4.List No.: 477-5033-C-4



Blank piece:	Material:	Treatment:	Page: 1 of 1
Scale :			
Tolerance :	Analog PPM	477-800A	
Design : MBR	Backpanel	477-8046A	
Layout : 930716			
Revised :	Diagram		477-8036-A-4

**NTP**



Blank piece:	Material:	Treatment:	Page
Scale :			1 of 1
Tolerance :			
Design : HEN			
Layout : 940211			
Revised :			
Connector Board Components Layout			<b>NTP</b>
			477-8047-A-4

Multi 15.03.94 9:30

PARTS LIST 477-8035A

Side 1

NTP 477-8035A CONNECTOR BOARD

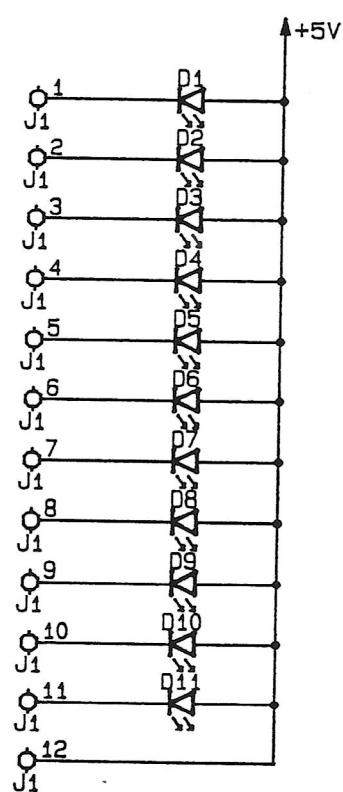
REF.NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO. PART NO.
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10	477-8046A	PRINTED CIRCUIT BOARD	1	CAD 477-8046A
IC 1	XICB-0165A	8-BIT PARALL. IN/SER OUT SHFT	1	HARRIS CD74HC165SM
IC 2	XICB-0165A	8-BIT PARALL. IN/SER OUT SHFT	1	HARRIS CD74HC165SM
R 1-16	XRMD-5470E	RESISTOR METAL 47K 5%	1	PHILIPS RC01 RC01 47K 5%
J 1	KEF-2001	EURO CON 20P FEMALE, TOP ENT	1	AMP 2-215079-0 2-215079-0
J 2	ZZZ-0000	NOT MOUNTED	1	ZZZ-0000 ZZZ-0000
J 3	KPM-2301	TUCHEL CONNECTOR, 23P, MALE	1	TUCHEL T2700 T2700 .000
RN 1	RAJ-5100	RESISTOR NETWORK 10K 2%	1	SIL 9PI REK 4609X-101-103
RN 2	RAJ-5100	RESISTOR NETWORK 10K 2%	1	SIL 9PI REK 4609X-101-103
SW 1	SSI-0008	DIL8 SWITCH	1	ESD EAM 108 LT01
C 1	CLF-0547	CAP POLYESTER 4.7NF/250V	1	ROE MKT 1822 1822 347/25
C 2	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873 K5104 M62
CX 3	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873 K5104 M62
CX 4	XCCD-0610GC	CAP CERAMIC 50V 100NF 20%	1	SIEMENS B37873 K5104 M62
20	MFB-0001	WASHER 3 MM	2	HFC-9161 3MM
30	477-5056A	REAR PLATE	1	477-5056-A-4 477-5056A
40	MSC-3006	SCREW 3 X 6 CHJZ	1	HFC 9033 3 X 6 CHJZ
50	MMA-0030	NUT STEEL 3 MM	2	HFC 9832 DIN 934 3MG
60	MTP-3010	SCREW CROSS HEAD 3 X 10 PHJX	8	HFC 41 3 X 10 PHJX

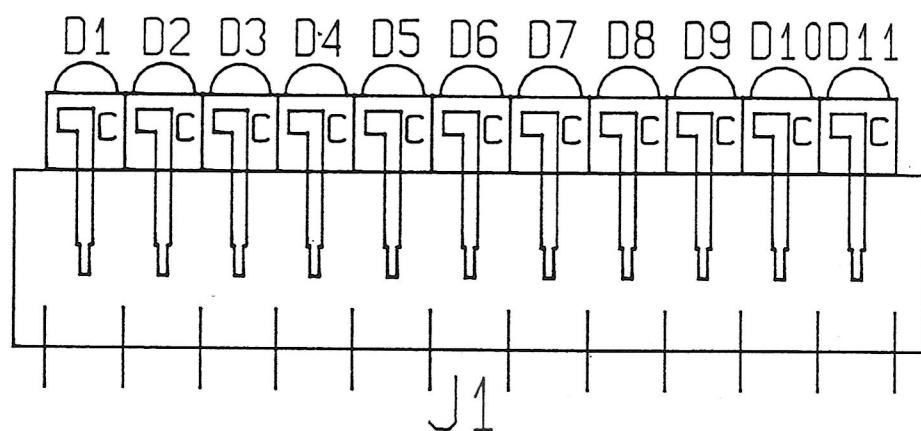
**NTP Parts List**as of date 15-3-1994.Page 1 of 1.List No.: 477-8035-A-4

SLUT

PARTS LIST 477-8035A



Blank piece:	Material:	Treatment:	Page: of
Scale :			
Tolerance :			
Design : BJ			
Layout : 931126	Phase Display Board Schematic Diagram		<b>NTP</b>
Revised :			477-4030-A-4



Blank piece:	Material:	Treatment:	Page 1 of 1
Scale :			
Tolerance :	Digital PPM	477-400A	
Design : TBL	Compatibility Board	477-4040A	
Layout : 930421	Component Lay-out		<b>NTP</b>
Revised :			477-4041-A-4

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PARTS LIST

477-5004A

NTP 477-5004A MECHANICAL PARTS,

Side 1

PARTS LIST

REF. NO	NTP-ID.	DESCRIPTION	QTY	MANUFACT/DRW.NO. PART NO.
100	477-1057AB	LOCK PLATE, BLACK	2	477-1057-A-4
150	MTP-3025B	SCREW BLACK 3X25	2	MTP-3025B
200	477-1072A	SPRING	2	477-1072-A-4
250	MMS-0160	NUT FOR LOCKING DEVISE	2	DANNER
300	477-1058A	INTER CABLE	1	477-1058-A-4
350	477-1059A	BUTTON FOR SWITCH	4	477-1059-A-4
450	MSC-2008	SCREW 2 X 8 CHJ	1	HFC 34
500	477-1062A	ISOLATION PLATE	1	477-1062-A-4
550	477-5053A	GUIDE FOR DISPLAY PRINT	1	5053-A4 / 5064A4
600	477-5052A	GUIDE FOR MOTHERBOARD	1	5052-A4 / 5064A4
650	477-5055A	END PIECE	2	477-5055-A-3
720	MSC-3014	SCREW 3 X 14 CHJZ	1	HFC 9033
730	MFD-0003	WASHER THREADED 3 MM	2	HFC 1226
				3MM INDV.FORT.

**NTP Parts List**

as of date 15-3 1994.

Page 1 of 1.

List No.: 477-5004-A-4