

KEPCO POWER ASSEMBLY SYSTEM 24074

1. BASIC EQUIPMENT

The Model 24074 Power Assembly System consists of the following items (see Drawings C3020246 and AM19462):

- Four FAW 12-12K Power Supplies
- Two FAW 5-10K Power Supplies
- One RA 44 Rack Adapter (5 1/4"H x 19"W x 16"D)
- One MSP 33-1 Circuit Breaker (20 Amp, single pole, pilot)
- One FFP 4 Front Filler Panel
- One MSP 26-3 LED/Trimmer/Test Point Panel
- One Custom Rear Panel Assembly, P/N 300-0208, (AC Inlet, Fan)
- One RCP 9-4 Barrier Strip Panel (two 15-term. Barrier Strip, 20Amp./term.)
- One 16-Position Terminal Block (AC Distribution)
- One 4-Position Terminal Strip

2. ELECTRICAL SPECIFICATIONS

Input Power: 115 Vac nominal (85-264 Vac), 47 to 63 Hz

Output Power: PS1 = 12 Volts at 12 Amps
PS2 = 12 Volts at 12 Amps
PS3 = 12 Volts at 12 Amps
PS4 = 12 Volts at 12 Amps
PS5 = 5 Volts at 10 Amps
PS6 = 5 Volts at 10 Amps

3. MECHANICAL LAYOUT

See Drawing AM19462

4. DOCUMENTATION

Electrical and Mechanical Specifications are documented in the following Power Supply Instruction Manual

- FAW 12-12K Power Supply Instruction Manual
- FAW 5-10K Power Supply Instruction Manual
- RA 44 Rack Adapter Instruction Manual
- Power Assembly System 24074 Instruction Manual

5. SYSTEM CONFIGURATION

Power Assembly System 24074 contains six power supplies, designated PS1 through PS6 (see Drawing AM19462, C3020246)

AC input power to Power Supplies 1 through 6 is applied via AC Barrier Strip TB4, Circuit Breaker CB1 and terminal block TB3. When Circuit Breaker CB1 is closed, the neon indicator DS7 is lit. Resistor RS1 limits the current to DS7 neon indicator.

Each of the six power supplies associated with Power Assembly System 24074 has a "power ok" pilot indicator and test point pair contained on the MSP 26-3 Panel Assembly. Power Supplies PS1 through PS6 have a voltage trimmer R1A through R6A, respectively. R1C through R6C are current limiting resistors for LEDs DS1 through DS6. The test point pairs for Power Supplies PS1 through PS6 are TP1 through TP6 respectively.

Power Assembly System 24074 output power connections are made at DC Output Barrier Strips TB1 and TB2.

6. LOAD CONNECTION FOR REMOTE ERROR SENSING

NOTE: To avoid output effects at remote loads, Remote Error Sensing MUST BE USED. For remote error sensing, the links between the Output and Sense Terminals at the DC Output Barrier Strip must be removed.

The remote sensing terminals must be connected to their respective output "load" terminals at the load, otherwise, Power Assembly System 24074 will not operate properly. Power Assembly System 24074 is shipped with error sensing enabled, links in place, at Terminal Blocks TB1 and TB2. Power Assembly System 24074 can operate with error sensing external to the output terminals (i.e., at the load). Error sensing at the load should be made with a twisted pair of wires to reduce noise. The sensing wires must be connected as follows: (+) Sense Terminal to load (+) Terminal, and (-) Sense Terminal to load (-) Terminal.

7. COOLING

The components contained in Power Supply System 24074 are maintained within their operating temperature range by means of fan in the rear panel.

Power Supply System 24074 **MUST BE KEPT CLEAR FROM OBSTRUCTIONS TO ENSURE PROPER AIR CIRCULATION**. If the equipment rack is installed in confined spaces, care must be taken to ensure that the ambient temperature (the temperature immediately surrounding the 24074 Power Supply System) does not rise above the limits specified in the associated power supply manual. Enough space must be provided around the rack to allow the hot air to exhaust from the equipment inside the Equipment Rack.



REPLACEMENT PARTS LIST

SYSTEM 24074

POWER ASSEMBLY

Code 03-1795

REFERENCE DESIGNATION	QTY	DESCRIPTION	MFRS. NAME & PARTS NO. SEE BOTTOM NOTE	KEPCO PART NO.	REC. SPARE PART QTY.
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MSP 33-1

CB1	1	Circuit Breaker Single Pole, 20 Amp		127-0424	1
DS7	1	Neon Indicator, Red		152-0087	1

PCB ASSEMBLY FOR MSP 26-3 (236-1560)

R1A thru R4A	4	Trimpot 500 ohm, 10%, 1W		115-2723	1
R5A,6A	2	Trimpot 200 ohm, 10%, 1W		115-2734	1
R1B thru R6B	6	Molded Jumper		172-0298	1
R1C thru R4C	4	Res., Fxd. 560 ohm, 5%, 1/2W		115-0888	1
R5C,6C	2	Res., Fxd. 150 ohm, 5%, 1/2W		115-0543	1
DS1 thru DS6	6	LED, Green		152-0102	1

RCP 9-4

TB1,2	2	Barrier Strip (15 Term., 20 Amp/Term.)		167-1023	1
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REAR PANEL ASSEMBLY (300-0208)

B1	1	Fan, 12Vdc		148-0040	1
TB4	1	Barrier Strip (3 Term., 30 Amp/Term.)	Kulka 602-Y-02	167-0021	1

NOTE: REPLACEMENT PARTS MAY BE ORDERED FROM KEPCO, INC. ORDERS SHOULD INCLUDE KEPCO PART NUMBER AND DESCRIPTION.
 PLEASE NOTE: THE MANUFACTURER'S NAME AND PART NUMBER LISTED FOR EACH ITEM ON REPLACEMENT PARTS LISTS REPRESENTS AT LEAST ONE SOURCE FOR THAT ITEM AND IS LISTED SOLELY FOR THE CONVENIENCE OF KEPCO EQUIPMENT OWNERS IN OBTAINING REPLACEMENT PARTS LOCALLY. WE RESERVE THE RIGHT TO USE EQUIVALENT ITEMS FROM ALTERNATE SOURCES. KEPCO, INC.



REPLACEMENT PARTS LIST

SYSTEM 24074

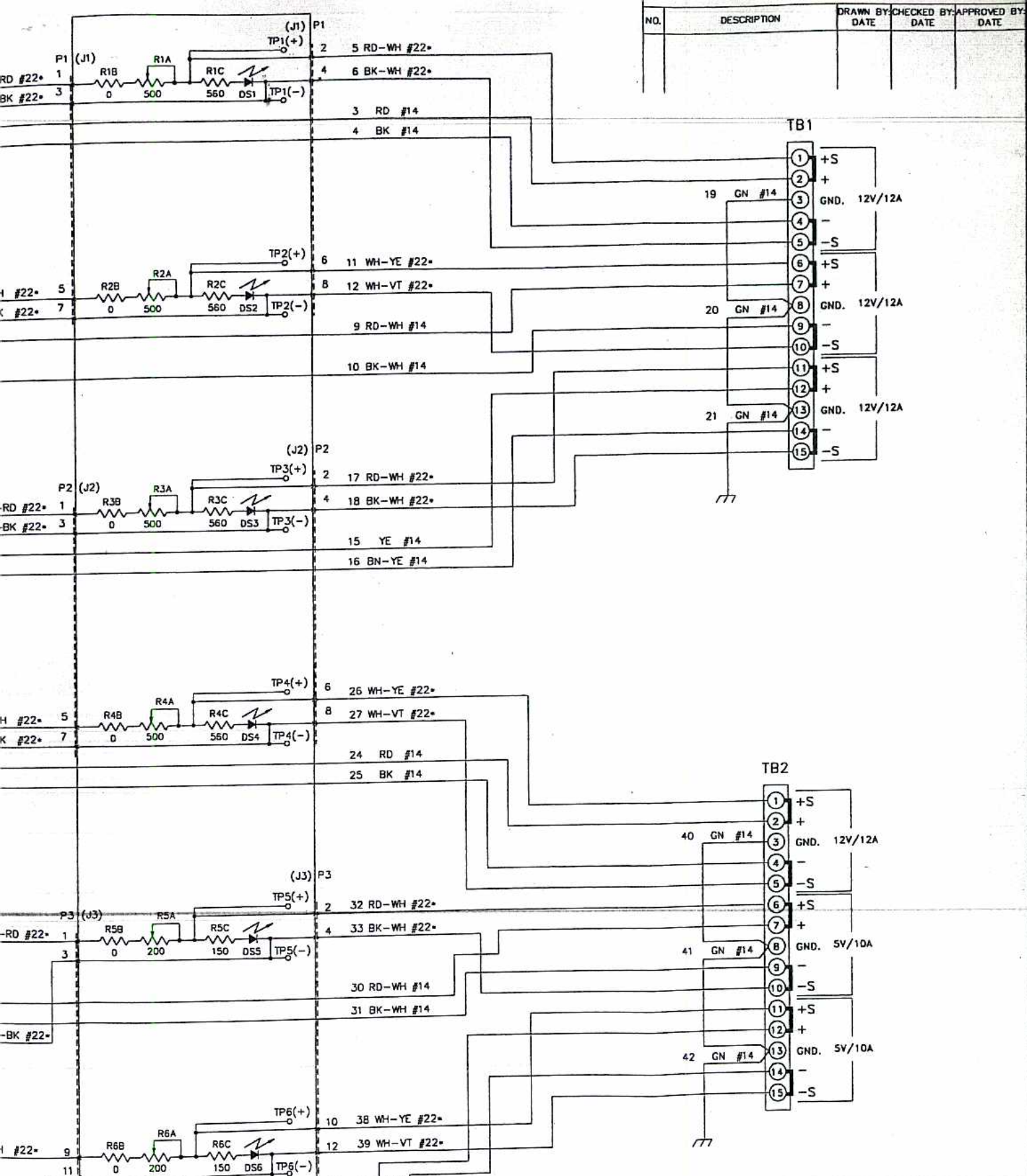
POWER ASSEMBLY

Code 03-1795

REFERENCE DESIGNATION	QTY	DESCRIPTION	MFRS. NAME & PARTS NO. SEE BOTTOM NOTE	KEPCO PART NO.	REC. SPAN PART QTY
PS1 thru PS4	4	Power Supply		FAW 12-12K	1
PS5,6	2	Power Supply		FAW 5-10K	1
N.A.	1	Circuit Breaker, 20A, 1P, Pilot		MSP 33-1	1
N.A.	1	LED/Trimmer/Test Point Panel		MSP 26-3	1
N.A.	1	AC Inlet/Fan Panel		300-0208	1
N.A.	1	DC Output Barrier Strip		RCP 9-4	1
TB3	1	Terminal Block, 16 Pos.		167-0996	1
RS1	1	Res., Fxd., Molded 68K, 5%, 1/2W		115-0273	1
TS1	1	Terminal Strip, 4 Pos.		167-0554	1


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NO.	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVED BY



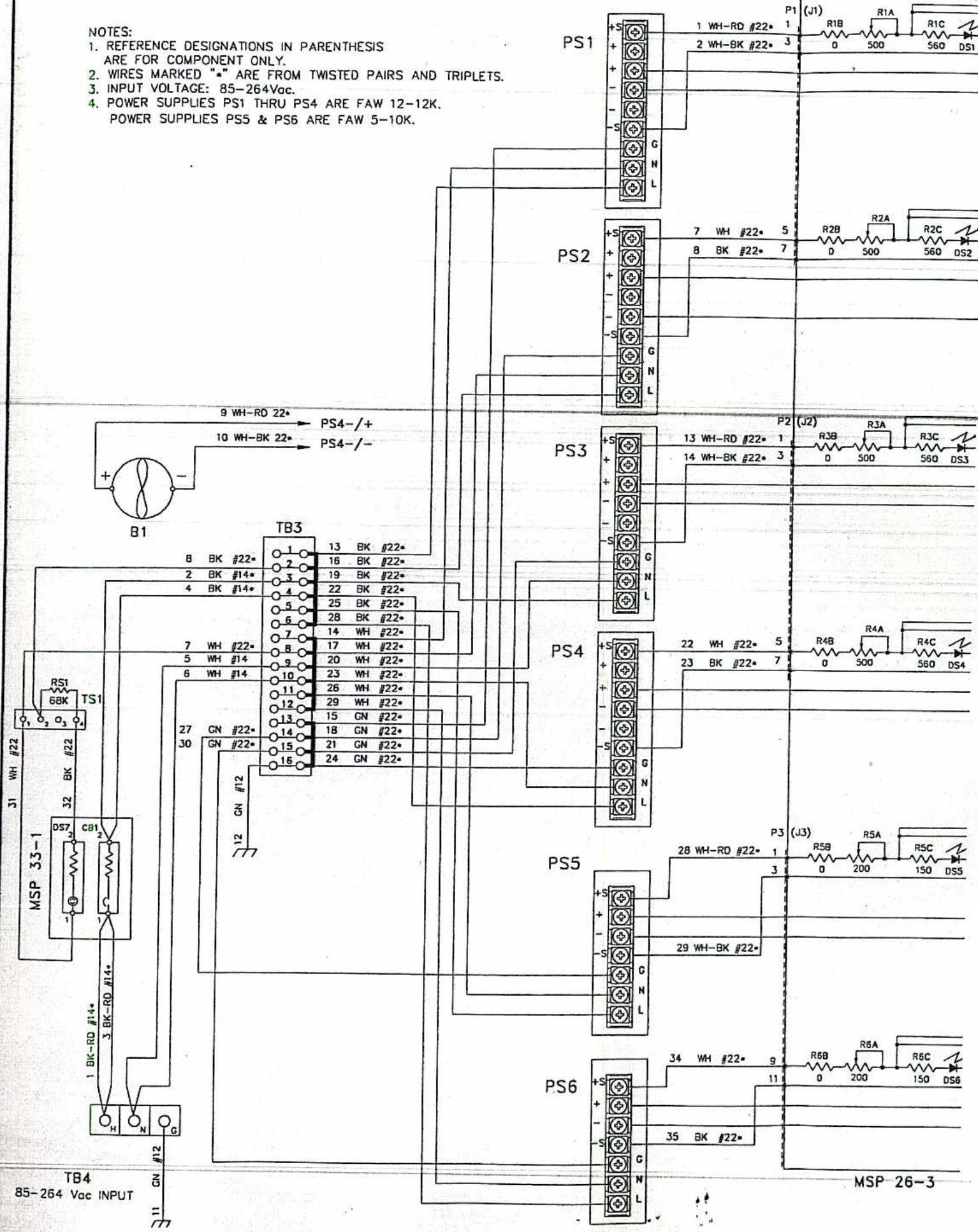
MSP 26-3

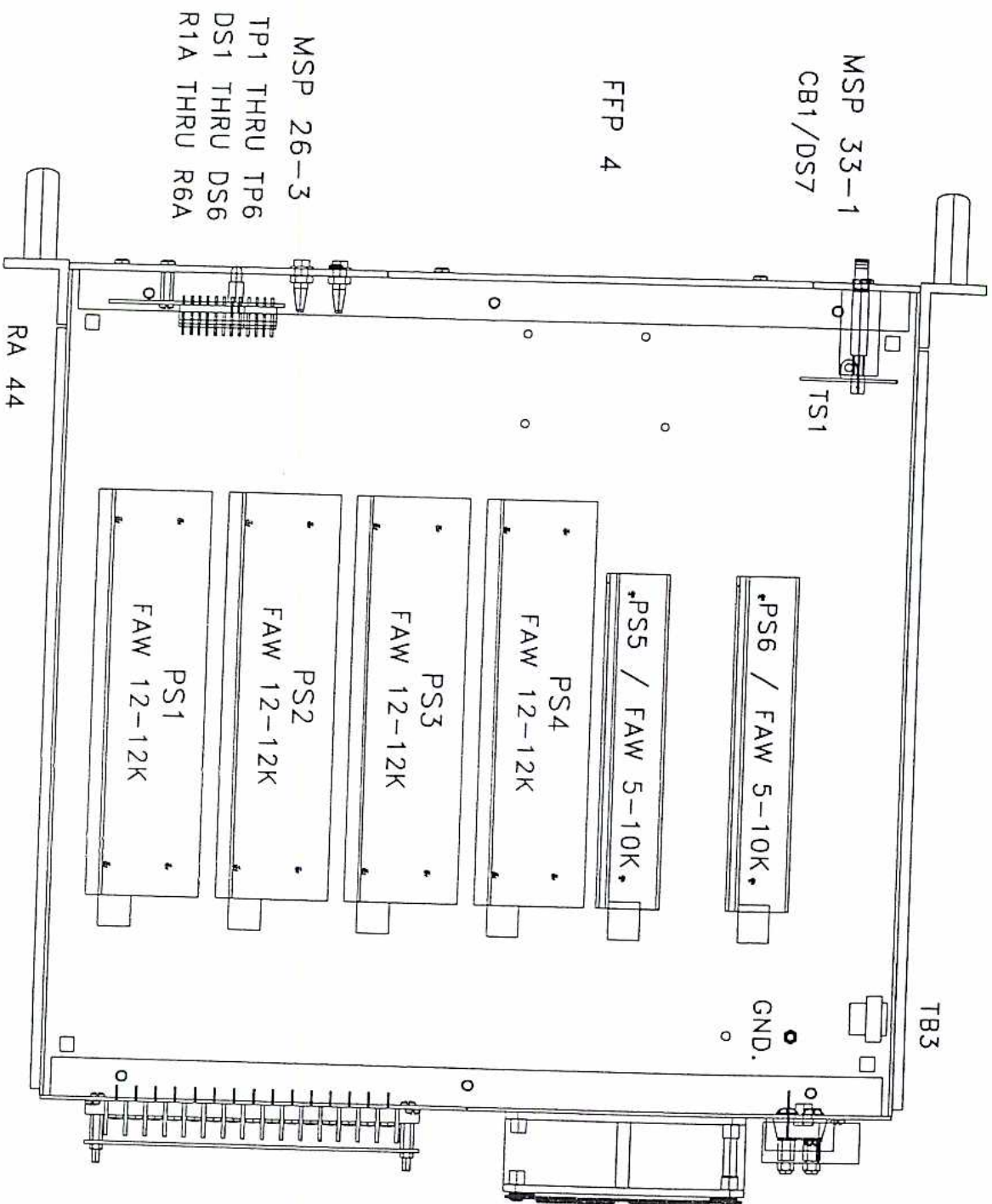
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FRACTIONS: ±	ON	03/17/95
DECIMALS	CHECKED BY	DATE
2 PLACES: ±	AD	03/17/95
3 PLACES: ±	DESIGNED BY	DATE
ANGLES: ±	AD	03/17/95
MATERIAL:	APPROVED BY	DATE
FINISH:	SN	03/21/95

 Flushing, NY, USA		
SCHEMATIC DIAGRAM		
MODEL NO. #	PART NO.	SCALE:
24074		
DWG. NO.	SHEET:	REV.
C3020246		

NOTES:

1. REFERENCE DESIGNATIONS IN PARENTHESIS ARE FOR COMPONENT ONLY.
2. WIRES MARKED "*" ARE FROM TWISTED PAIRS AND TRIPLETS.
3. INPUT VOLTAGE: 85-264Vac.
4. POWER SUPPLIES PS1 THRU PS4 ARE FAW 12-12K.
POWER SUPPLIES PS5 & PS6 ARE FAW 5-10K.





TOP VIEW (COVER REMOVED)

MSP 26-3
 TP1 THRU TP6
 DS1 THRU DS6
 R1A THRU R6A

MSP 33-1
 CB1/DS7

FFP 4

RA 44

TS1

*PS6 / FAW 5-10K *

GND.

TB3

*PS5 / FAW 5-10K *

300-0208

TB4/B1

PS4
 FAW 12-12K

PS3
 FAW 12-12K

PS2
 FAW 12-12K

PS1
 FAW 12-12K

RCP 9-4
 TB1/TB2

NO. REVISION:	DESCRIPTION:	DRW. BY:	CHK. BY:	APP. BY:	DATE:	DESIGN BY:	ON	3/17/95
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TITLE						LAYOUT		
MODEL NO.						24074		
DWC NO.						AV01000 1 07 8		

