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1260 VXI
SWITCHING CARD

1260-54
TREE MULTIPLEXER
MODULE

PUBLICATION NO. 980673-009

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1. Product serial number
2. Product model number
3. Your company and contact information

You may contact your customer service advisor by:

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RETURN of PRODUCT

Authorization is required from Racal Instruments before you send us your product for service or calibration. Call your nearest Racal Instruments support facility. A list is located on the last page of this manual. If you are unsure where to call, contact Racal Instruments, Inc. Customer Support Department in Irvine, California, USA at 1-800-722-3262 or 1-949-859-8999 or via fax at 1-949-859-7139. We can be reached at:

helpdesk@racalinstruments.com.

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FOR YOUR SAFETY

Before undertaking any troubleshooting, maintenance or exploratory procedure, read carefully the **WARNINGS** and **CAUTION** notices.

This equipment contains voltage hazardous to human life and safety, and is capable of inflicting personal injury.

If this instrument is to be powered from the AC line (mains) through an autotransformer, ensure the common connector is connected to the neutral (earth pole) of the power supply.

Before operating the unit, ensure the conductor (green wire) is connected to the ground (earth) conductor of the power outlet. Do not use a two-conductor extension cord or a three-prong/two-prong adapter. This will defeat the protective feature of the third conductor in the power cord.

Maintenance and calibration procedures sometimes call for operation of the unit with power applied and protective covers removed. Read the procedures and heed warnings to avoid “live” circuit points.

Before operating this instrument:

1. Ensure the instrument is configured to operate on the voltage at the power source. See Installation Section.

2. Ensure the proper fuse is in place for the power source to operate.

3. Ensure all other devices connected to or in proximity to this instrument are properly grounded or connected to the protective third-wire earth ground.

If the instrument:

- fails to operate satisfactorily
- shows visible damage
- has been stored under unfavorable conditions
- has sustained stress

Do not operate until performance is checked by qualified personnel.

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NOTE FOR SYSTEMS WITH 1260-OPT 01T

The “Module-Specific Syntax” section of this manual shows the command syntax for the 1260-01S Smart Card. If you are using the newer 1260-01T Smart Card, the commands will NOT work as shown.

Consult the 1260-01T Manual for a description of the commands that may be used with the 1260-01T Smart Card.

The channel numbers described in this manual are valid for the 1260-01T. The channel numbers continue to be used for the 1260-01T.

The syntax of the commands that use channel numbers has changed for those cards controlled by the 1260-01T.

The new syntax used to close a channel is:

CLOSE (@ <module address> (<channel>))

For example, for a relay module whose <module address> is set to 7, closing <channel> 0 is performed with the command:

CLOSE (@7 (0))

Using the older 1260-01S, the command would be (as shown in this manual):

CLOSE 7.0

Many other command syntax differences exist. Please consult chapter 2 of the 1260-01T manual for a description of the commands that are available for the 1260-01T.

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Control Information for the 1260-54

The following information describes the control-register-to-relay-channel mapping for a 1260-54 Relay Module. This information may be used to control a 1260-54 when using a 1260-01T in the register-based mode of operation.

A channel within each 1x4 MUX may be selected by programming either 1 or 2 Control Registers. Selecting one channel in each MUX will open all others in that MUX.

Each Control Register is located 2 addresses from the previous Control Register. That is, each Control Register is located at an odd address. This is shown in Table 2-2 of the 1260-01T manual. Control Register 0 is located at the "Base A24 Address" for the module. Consult the "Register-Based Operation" Section of Chapter 2 of the 1260-01T manual for a description of calculating control register addresses.

Each Control Register may also control several different MUXes. For this reason it is necessary to form the new Control Register values by performing the following steps:

- Read the present Control Register values
- Invert the Control Register value (the hardwareinverts the present value on reading)
- AND the present data with an AND mask from the table below
- OR the present data with the OR mask from the table below.

For example, from the table below, to select channel 10 (MUX #1, channel 0 to COM), we must write to both Control Register #0 and Control Register #1. The Control Register #0 AND mask is 3F (hexadecimal), while the Control Register #1 AND mask is F0 (hexadecimal). Similarly, the Control Register #0 OR mask is 40 (hexadecimal), while the Control Register #1 OR mask is 0C (hexadecimal). Therefore, to select channel 10, perform the following sequence of operations:

- Read the present value of Control Register #0
- Perform a 1's complement (invert) of each of the bits of this register
- AND the value with 3F hexadecimal, clearing the most significant 2 bits
- OR the value with 40 hexadecimal
- Write the value just created back to Control Register #0
- Read the present value of Control Register #1
- AND the value with F0 hexadecimal, clearing the least significant 4 bits
- OR the value with 0C hexadecimal
- Write the value just created back to Control Regster #1

In 'C', this can be represented (using ViIn8() and ViOut8() to write) as follows:

```
ViAddr control_reg_0, control_reg_1;
ViUInt8 creg0_val, creg1_val;
ViStatus error;
ViSession hdl;          /* this is from the viOpen() function */

control_reg_0 = (module address of card x 0x400) + 1;
control_reg_1 = control_reg_0 + 2;

error = ViIn8(hdl, control_reg_0, &creg0_val);
creg0_val = ~ creg0_val;      /* invert the data read back */
creg0_val &= 0x3F;            /* AND with 3F hex */
creg0_val |= 0x40;            /* OR with 40  hex */
error = viOut8(hdl, control_reg_0, creg0_val);

error = ViIn8(hdl, control_reg_1, &creg1_val);
creg1_val = ~ creg1_val;      /* invert the data read back */
creg1_val &= 0xF0;            /* AND with F0 hex */
creg1_val |= 0x0C;            /* OR with 0C hex */
error = Out8(hdl, control_reg_1, creg1_val);
```

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Note that for each MUX, using a value of 0 for the OR mask for all Control Registers used for that MUX will open ALL 4 channels of that MUX.

The table below shows the mapping from logical channels to control bits. The logical channels are used when operating the relay module in message-based mode. The control bits within the Control Registers are used to operate the module in register-based mode. The table shows holds one or two entries, showing the Control Register, the AND mask, and the OR mask to use to select the desired MUX relay closures.

Channel	Control Register	AND Mask (hex)	OR Mask (hex)
00	0	C0	31
01	0	C0	22
02	0	C0	14
03	0	C0	08
10	0	3F	40
	1	F0	0C
11	0	3F	80
	1	F0	08
12	0	3F	00
	1	F0	05
13	0	3F	00
	1	F0	02
20	1	0F	10
	2	FC	03
21	1	0F	20
	2	FC	02
22	1	0F	40
	2	FC	01
23	1	0F	80
	2	FC	00
30	2	03	C4
31	2	03	88
32	2	03	50
33	2	03	20
40	3	C0	31
41	3	C0	22
42	3	C0	14
43	3	C0	08
50	3	3F	40
	4	F0	0C
51	3	3F	80
	4	F0	08
52	3	3F	00
	4	F0	05
53	3	3F	00
	4	F0	02

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Chapter 1

INTRODUCTION

1260-54 1GHz Tree Multiplexer Module

The 1260-54 provides six 1 x 4 tree multiplexers. Each channel has the capability of being terminated into an optional 50Ω SMB terminator.

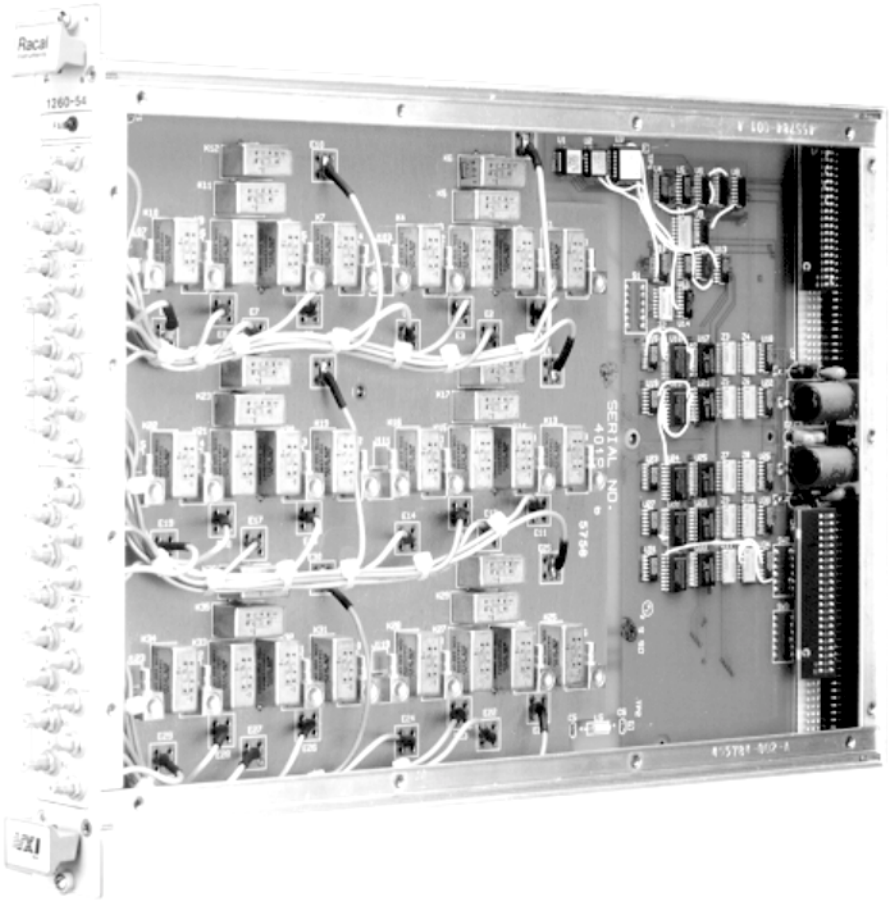


Figure 1-1, 1260-54

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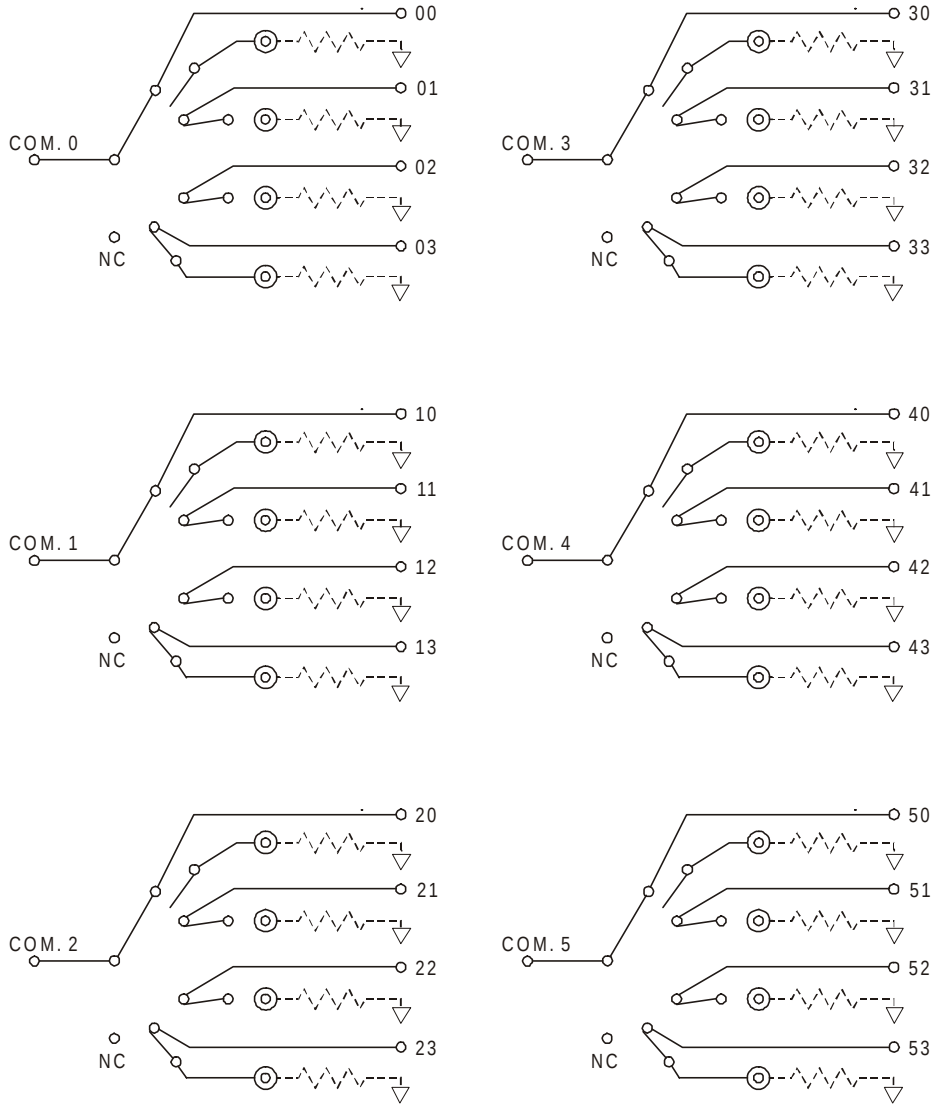


Figure 1-2, 1260-54 Functional Diagram

Specifications

Minimum Option 01 Firmwire Revision	17.1
User Connector	SMC **Caution**: Mating Connector engagement should not exceed 16in. oz. Torque maximum.
Maximum Switchable Voltage (Signal to Ground)	30VDC, 100VAC RMS

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Maximum Switchable Current Per Channel	1.5ADC, 1.5A RMS
Maximum Switchable Power Per Channel	60W DC, 60VA AC, 60W RF Power
DC Performance	
Path Resistance	<1Ω
AC Performance	
Bandwidth, (-3 dB, 50Ω Termination)	1.3 GHz
Insertion Loss, (50Ω Termination)	<.50dB at 100MHz <1.5dB to 500 MHz <2.0dB to 1GHz
Crosstalk Across Groups (50Ω Termination)	<-100dB to 100MHz <-80dB to 500MHz <-60dB to 1GHz <-50dB to 1.3GHz
Isolation Between Channels (50Q Termination)	<-80dB at 100MHz <-65dB at 500MHz <-55dB at 1GHz <-40dB at 1.3GHz
VSWR (50Q Termination)	1.1:1 at 100MHz 1.25:1 at 500MHz 1.75:1 at 1GHz 1.75:1 at 1.3GHz
Switching Time	<10mS
Cooling Requirements	
Airflow	4 litres/sec
Backpressure	0.5mmH_2O
Power Requirements (I_{pm})	
+5 V	0.4A (2.8A with Option 01)
+12 V	10 mA per relay
Weight	1.17 Kg (2.59 lb) without Option 01 1.29 Kg (2.87 lbs) with Option 01

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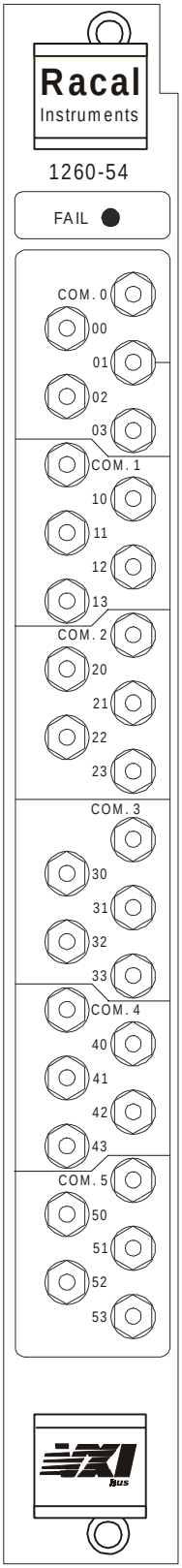


Figure 1-3, 1260-54 Front Panel

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Chapter 2

INSTALLATION INSTRUCTIONS

Unpacking and Inspection

1. Before unpacking the switching module, check the exterior of the shipping carton for any signs of damage. All irregularities should be noted on the shipping bill.
2. Remove the instrument from its carton, preserving the factory packaging as much as possible.
3. Inspect the switching module for any defect or damage. Immediately notify the carrier if any damage is apparent.
4. Have a qualified person check the instrument for safety before use.

Reshipment Instructions

1. Use the original packing when returning the switching module to Racal Instruments for calibration or servicing. The original shipping carton and the instrument's plastic foam will provide the necessary support for safe reshipment.
2. If the original packing is unavailable, wrap the switching module in plastic sheeting and use plastic spray foam to surround and protect the instrument.
3. Reship in either the original or a new shipping carton.

Option 01 Installation

Installation of the Option 0 1 into the 1260-54 is described in the Installation section of the 1260 Series VXI Switching Cards Manual.

Module Installation

Installation of the 1260-54 Switching Module into a VXI mainframe, including the setting of DIP switches, is described in the Installation section of the 1260 Series VXI Switching Cards Manual. The ID byte DIP switches, SW1-5 and SW 1-6, should be set OFF.

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Chapter 3
MODULE SPECIFIC SYNTAX

1260-54 Commands

The 1260-54 RF Multiplexer supports the OPEN, CLOSE, PSETUP, RESET and PDATAOUT commands.

NOTE

The 1260-54 Coaxial switching module is supported by the Option 01 Operating Systems at Revision levels 3.1 and above.

Syntax

The module specific syntax for the 1260-54 RF Multiplexer is as follows:

OPEN

OPEN <module address>.<channel>[;<module address>.<channel>]

where <module address> is the address.

<channel> is the relay to be closed to connect an input to the output.

Note that Channels remain closed until opened by an OPEN command.

The range of values for <channel> is:

00-03
10-13
20-23
30-33
40-43
50-53

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CLOSE

The Module Specific Syntax for the CLOSE command is the same as for the OPEN command. Note each group of <channel> values contains five values. Using the highest value in each group, 04, 14, 24 etc, will give a connection to a "not connected" pin, i.e., open the path from input to output. This has the same effect using an OPEN command.

Connections between input and output are mutually exclusive within a group in the switch module. A CLOSE command will open an existing connection and close the new connection. An OPEN command will open any existing connection in the group and open circuit the Common connection.

The 1260-54 is restricted to the Break-Before-Make sequence mode.

PSETUP

The PSETUP command causes the specified module setup to be transmitted to the VXI Controller. The syntax used is:

PSETUP <module address>[;<module address>][;<module address>] where <module address> is the address.

The responses to the PSETUP command for the 1260-54 multiplexer is as follows:

<module address>. 1260-54 COAXIAL SWITCHING MODULE
<module address>.BBM
<module address>.END

PDATAOUT

The PDATAOUT command causes the specified module to transmit the CLOSED state of the relays fitted to the switching module to the 1260 Controller. The syntax used is:

PDATAOUT <module address>[.<module address>] [;<module address>]

The responses to the PDATAOUT command is as follows:

<module address>.1260-54 RF MULTIPLEXER
<module address>.<channel>[,<channel>] [,<channel>]
<module address>.END

The range of values for <channel> is:

00-03,10- 13,20-23,30-33,40-43 and 50-53.

Note that connections to the "not connected" pins within a group

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are not displayed.

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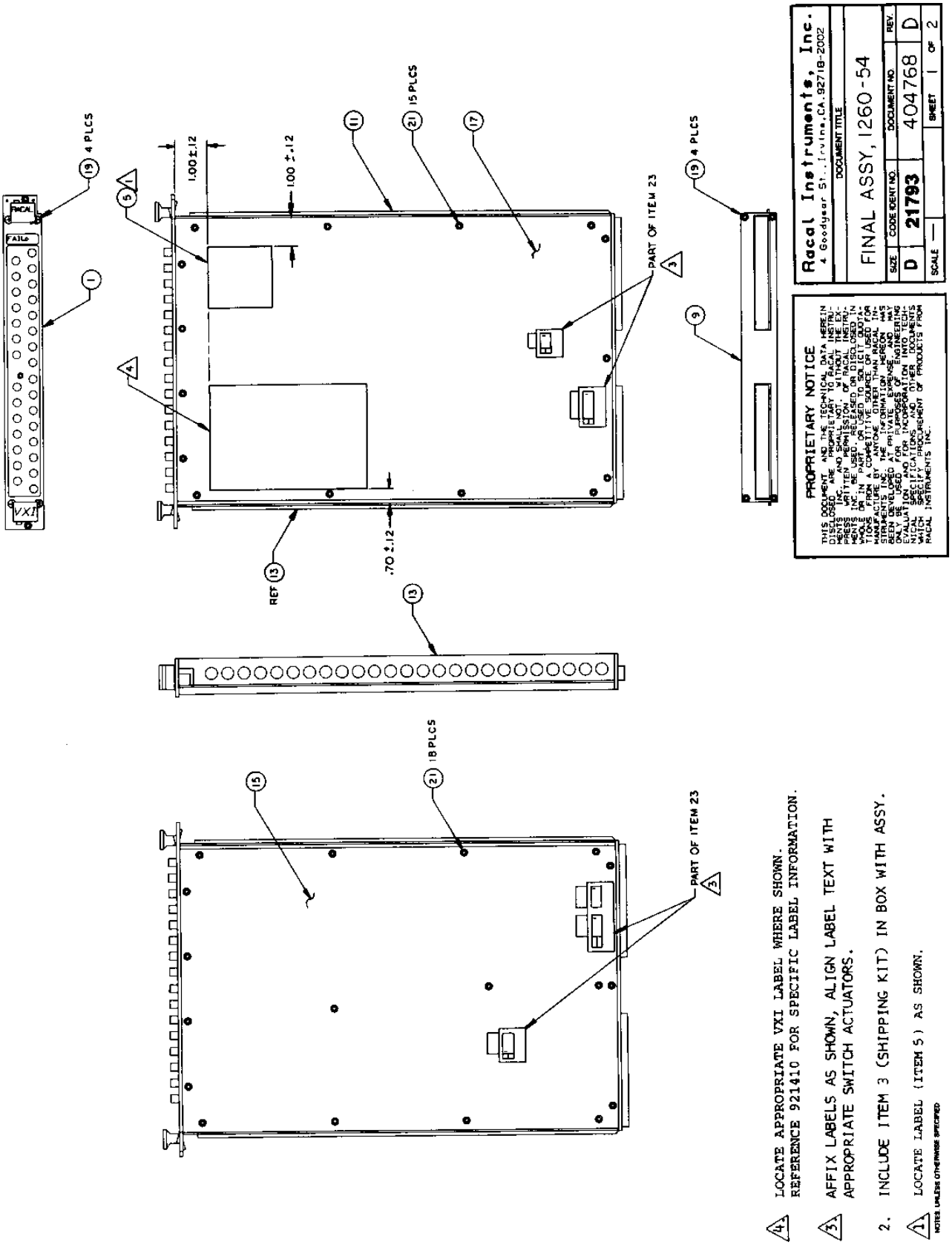
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4. LOCATE APPROPRIATE VXI LABEL WHERE SHOWN. REFERENCE 921410 FOR SPECIFIC LABEL INFORMATION.

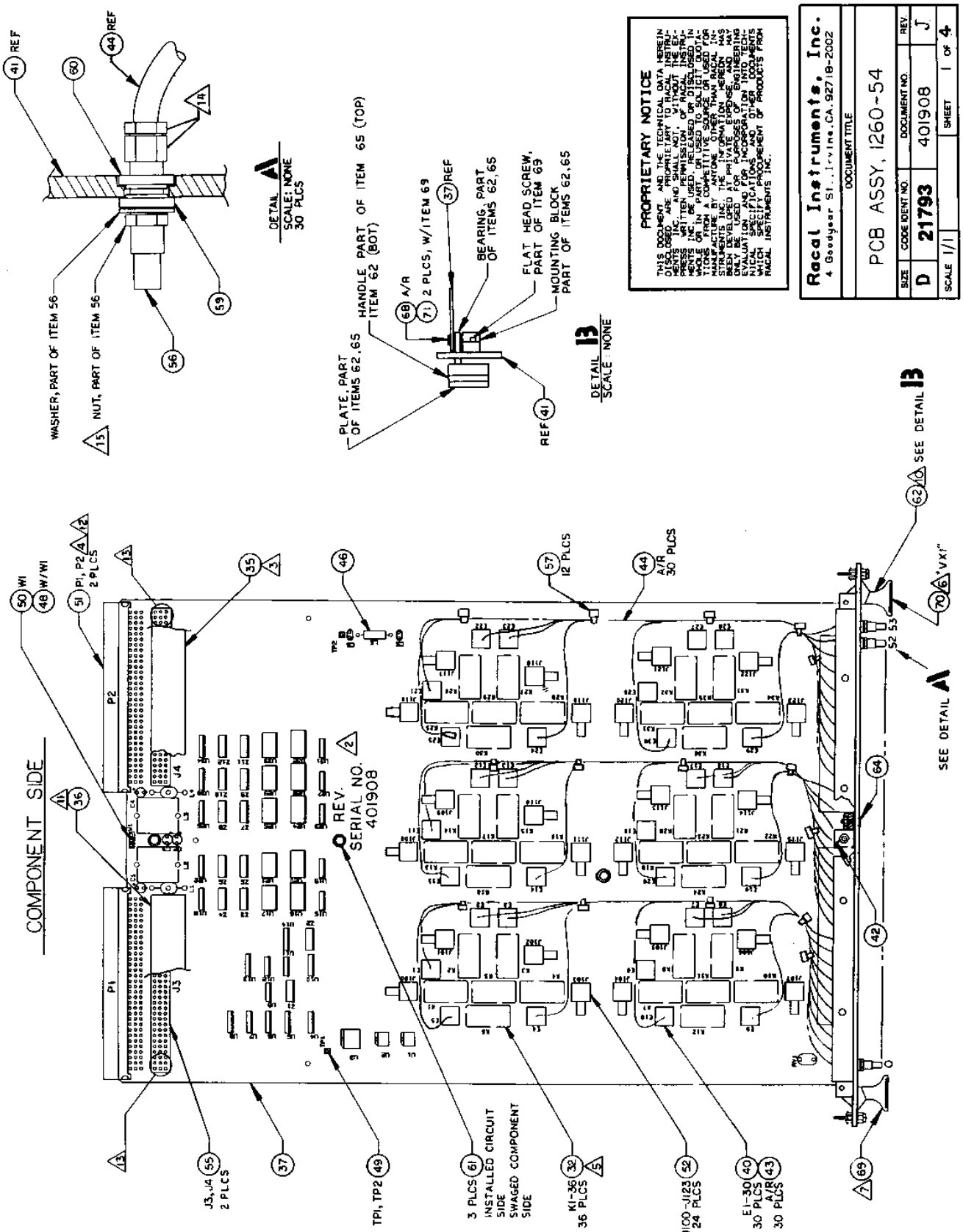
3. AFFIX LABELS AS SHOWN, ALIGN LABEL TEXT WITH APPROPRIATE SWITCH ACTUATORS.

2. INCLUDE ITEM 3 (SHIPPING KIT) IN BOX WITH ASSY.

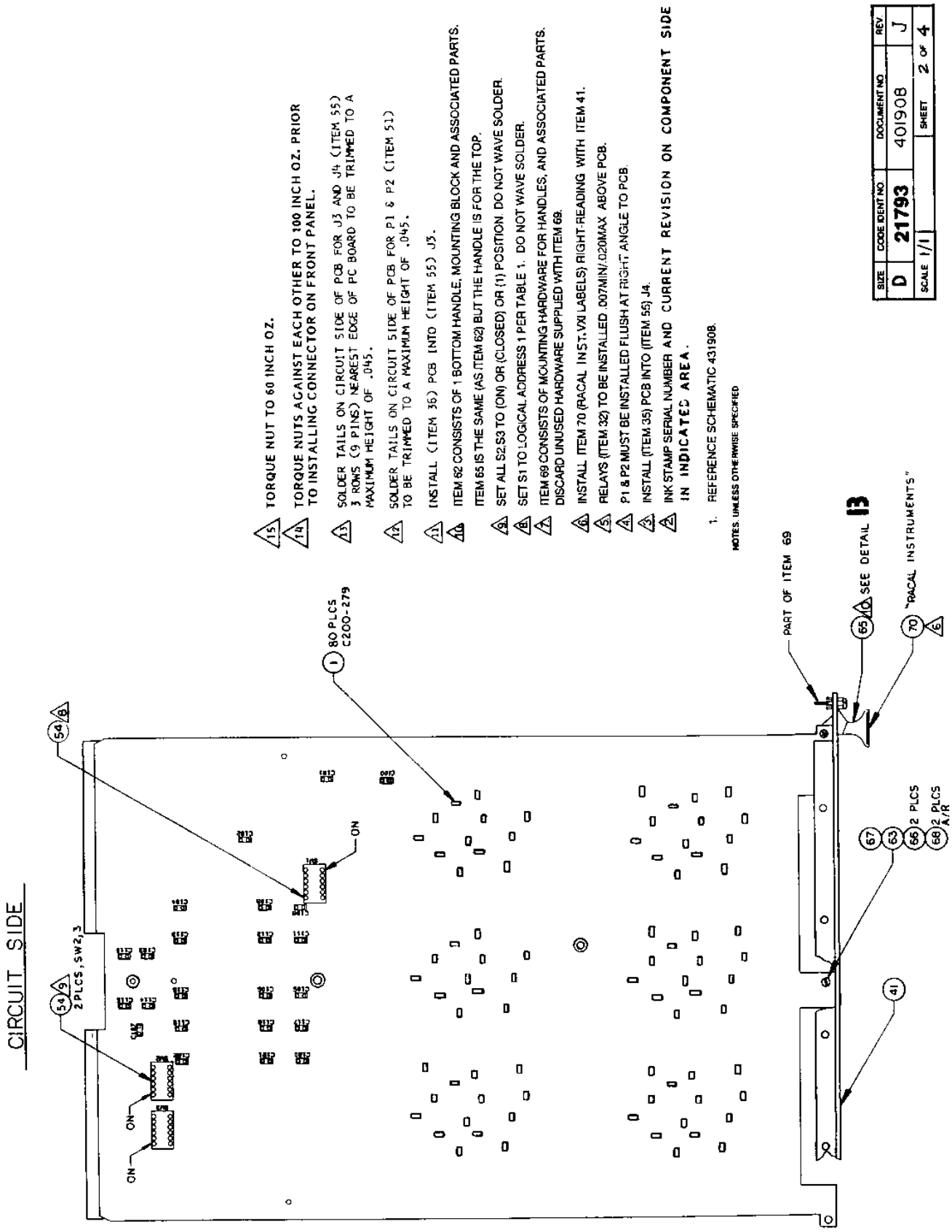
1. LOCATE LABEL (ITEM 5) AS SHOWN.

NOTES: UNLESS OTHERWISE SPECIFIED

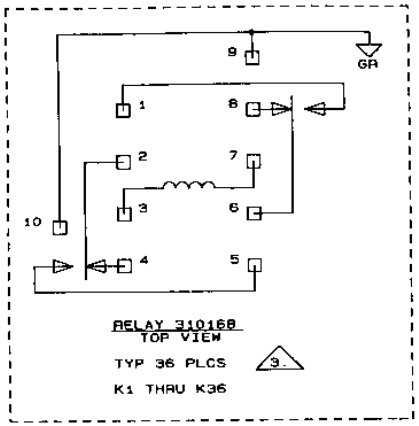
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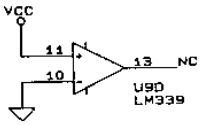


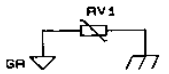
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U17, 21, 25, 29, 33	2803		9
U16, 20, 24, 28, 32	74HCT273	20	10
U14	74HCT85	16	8
U13	74LS138	16	8
U11, 12, 15, 19, 23, 27, 31	74HCT164	14	7
U10, 18, 22, 26 , 30, 34	74HCT166	16	8
U9	LM339	3	12
U7, 8	26LS32	16	8
U6	26LS31	16	8
U4, 5	74HCT253D	16	8
U3	231154 (22V10H)	28	14
U2	231153 (16R4)	20	10
U1	231152 (16L8Q)	20	10
REF. DES.	IC TYPE	+5V PIN NO.	GND PIN NO.
IC POWER AND GROUND CONNECTIONS			

Z12
W1
U34
TP2
SW3
RV1
P2
L5
K36
J123
E30
C279
HIGHEST REF. DES.





6. REFER TO SHEET 12 FOR CONNECTIONS.
5. ⏚ REFERS TO LOGIC GROUND. GR ⏚ REFERS TO SIGNAL GROUND.
4. C5 AND C6 ARE NOT INSTALLED.
3. RELAYS K1 THRU K36 ARE RACAL P/N 310168.
   ALL RELAYS SHOWN IN DE-ENERGIZED POSITION.
2. RESISTOR NETWORKS ARE IN OHMS, ±2%
1. CAPACITOR VALUES ARE IN MICROFARADS, 50V, +/-20%

NOTES: UNLESS OTHERWISE SPECIFIED

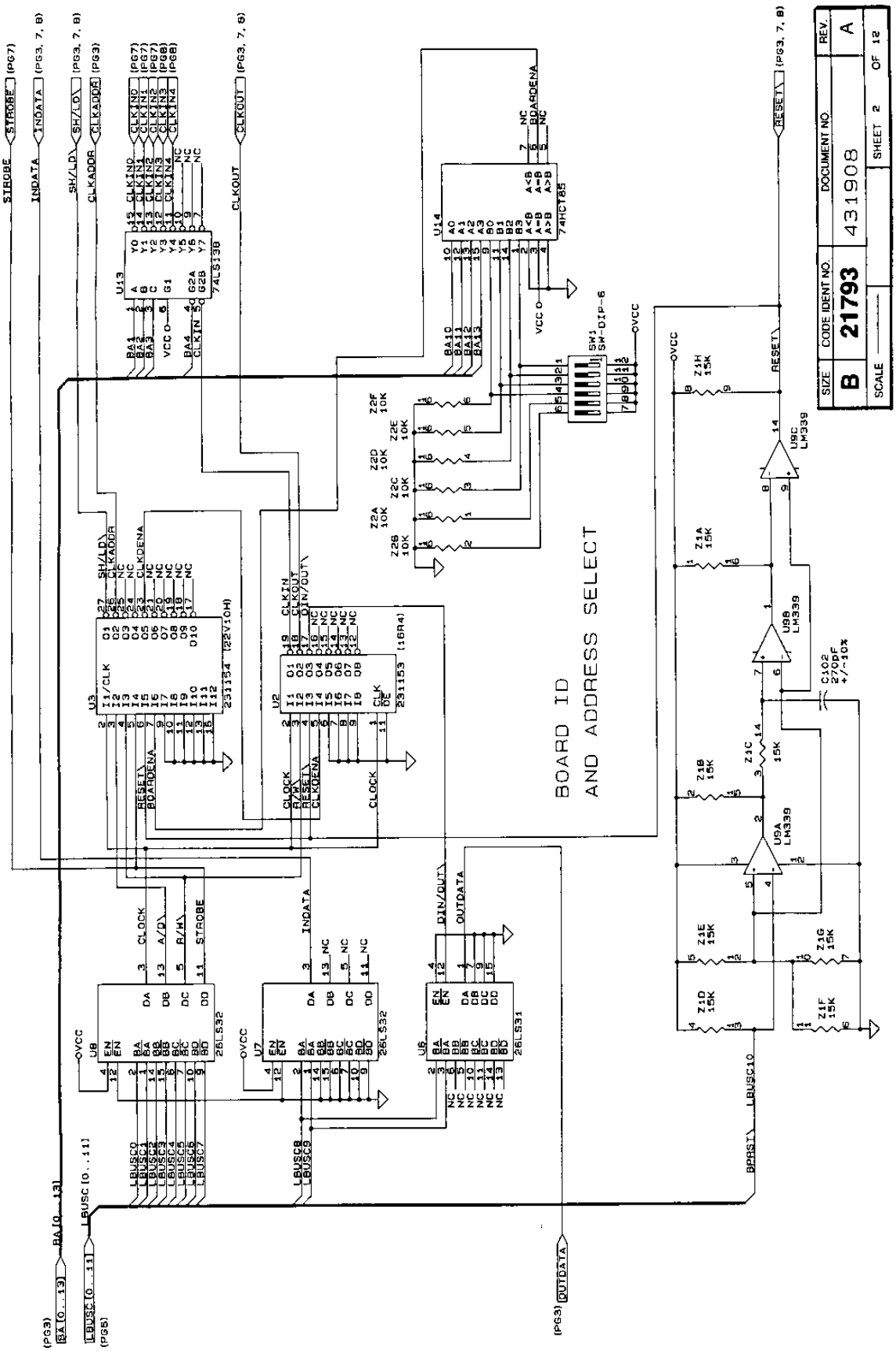
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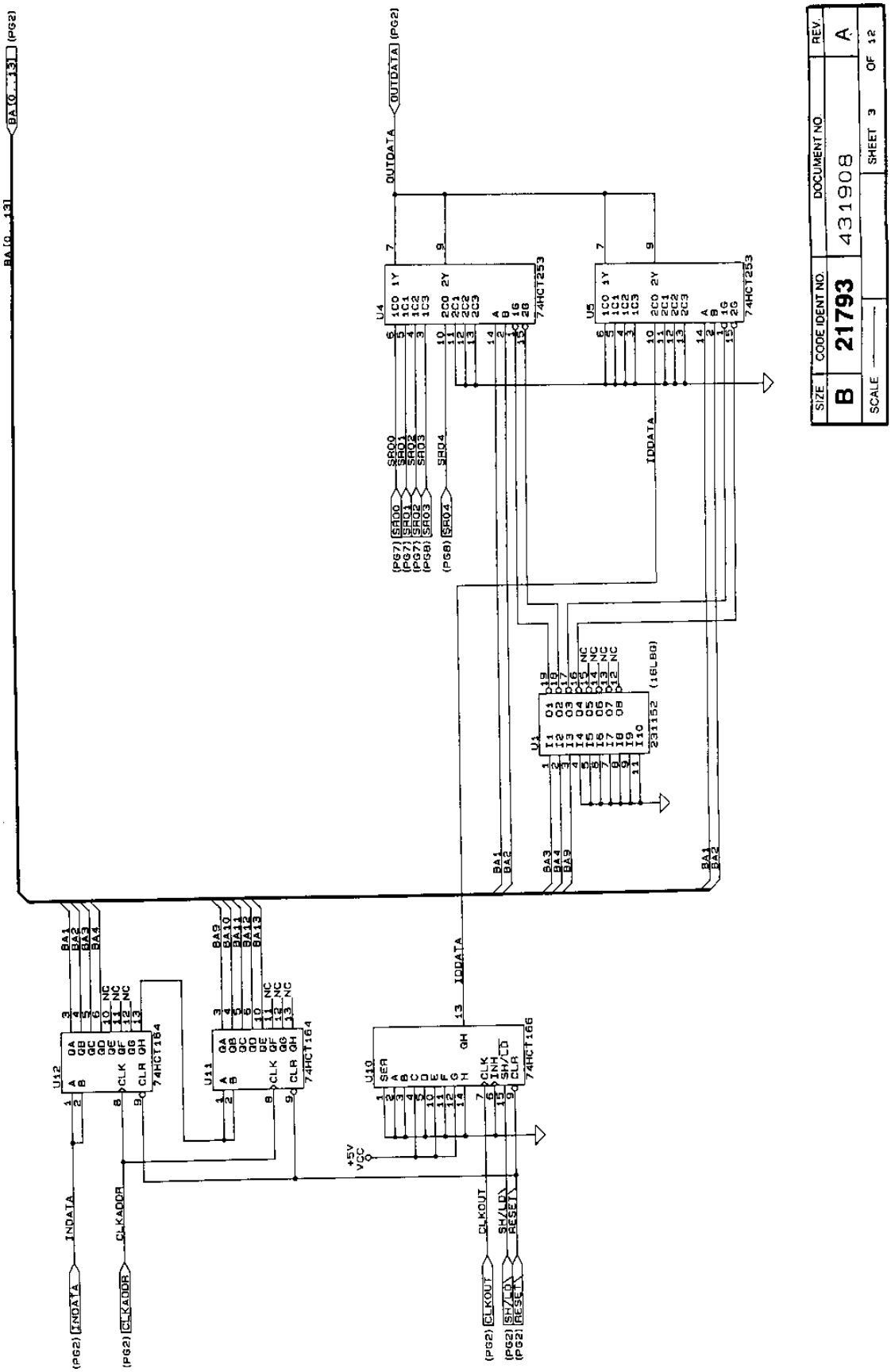
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B	21793	431908	A
SCALE		SHEET 1 OF 12	

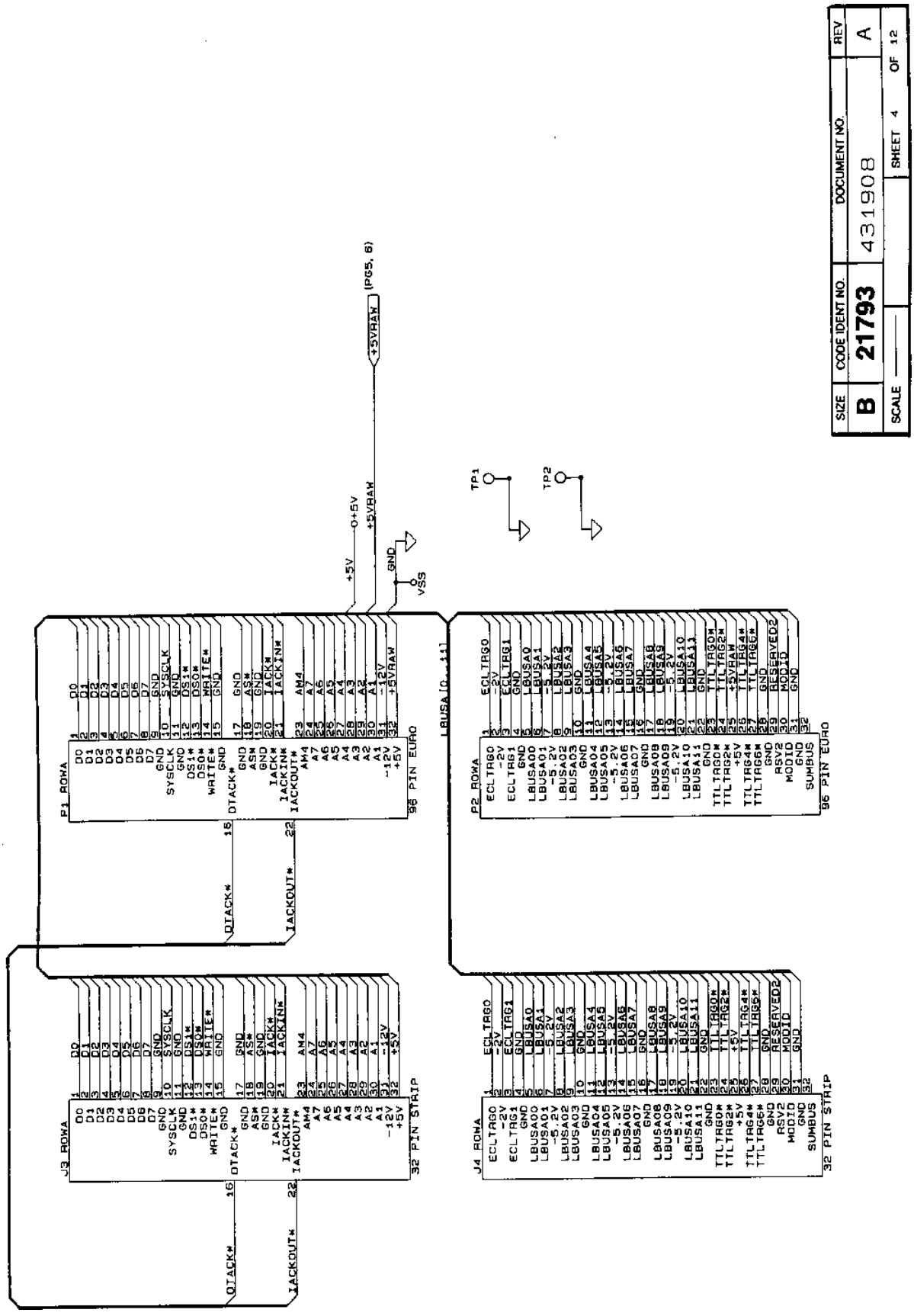
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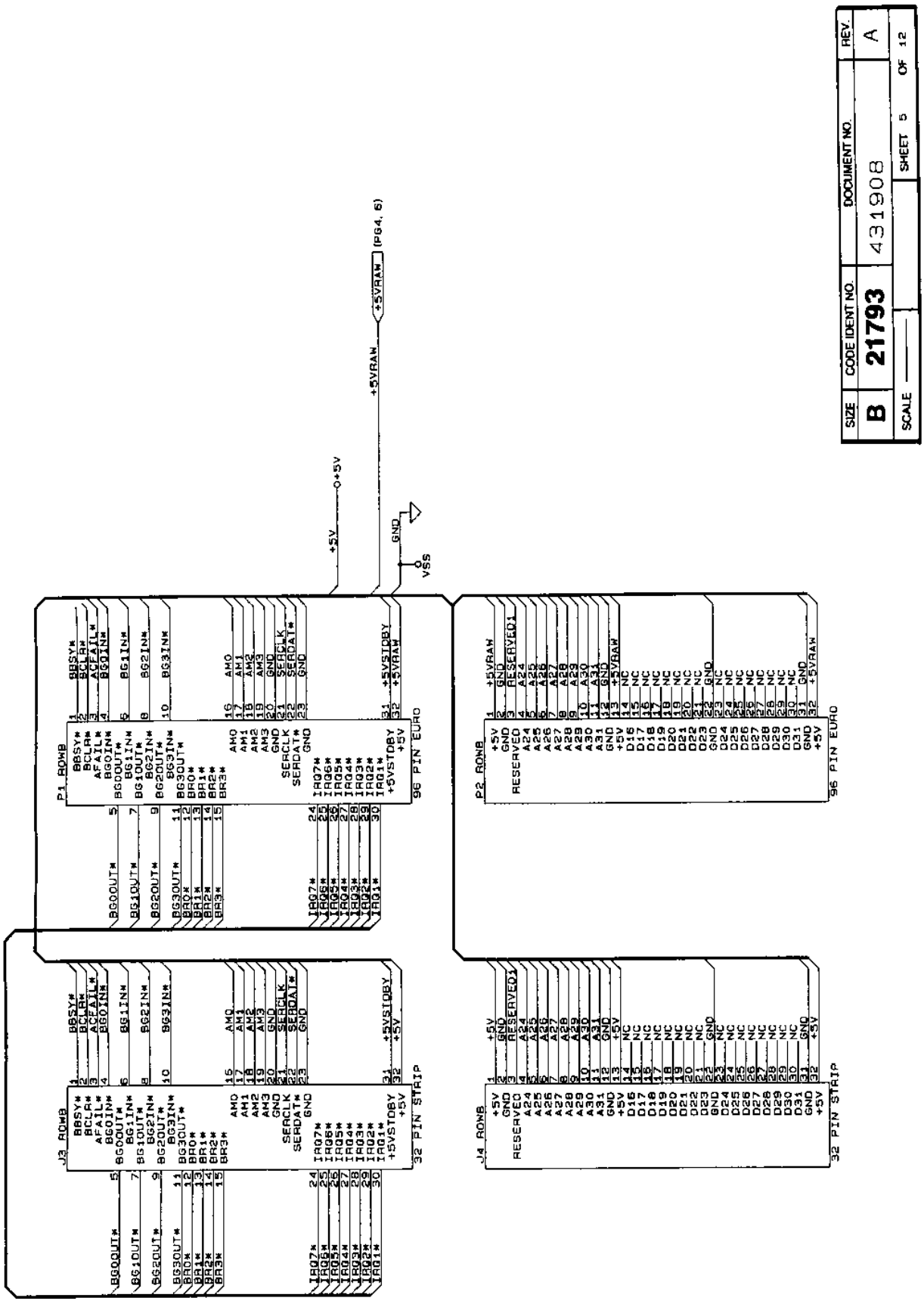
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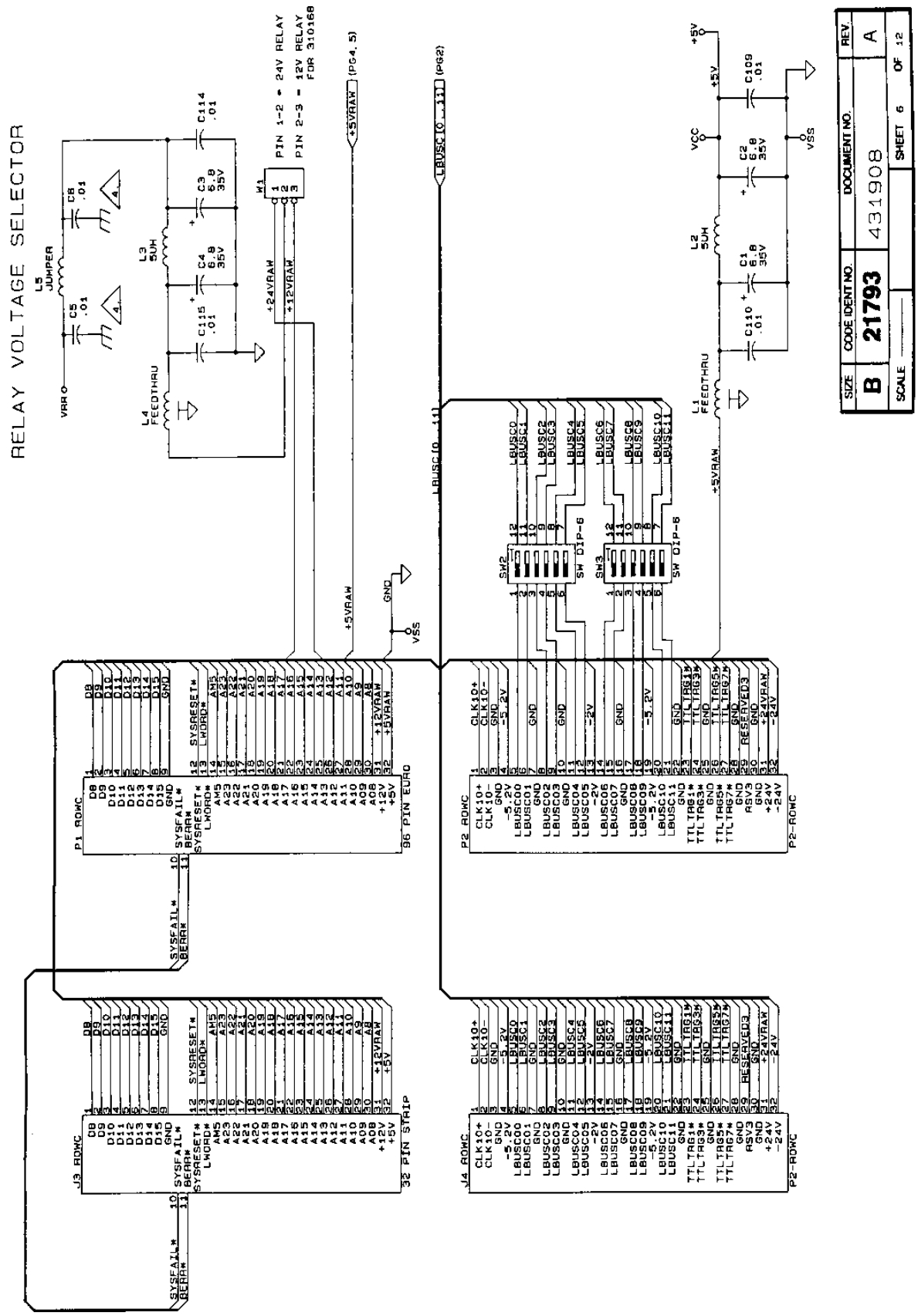
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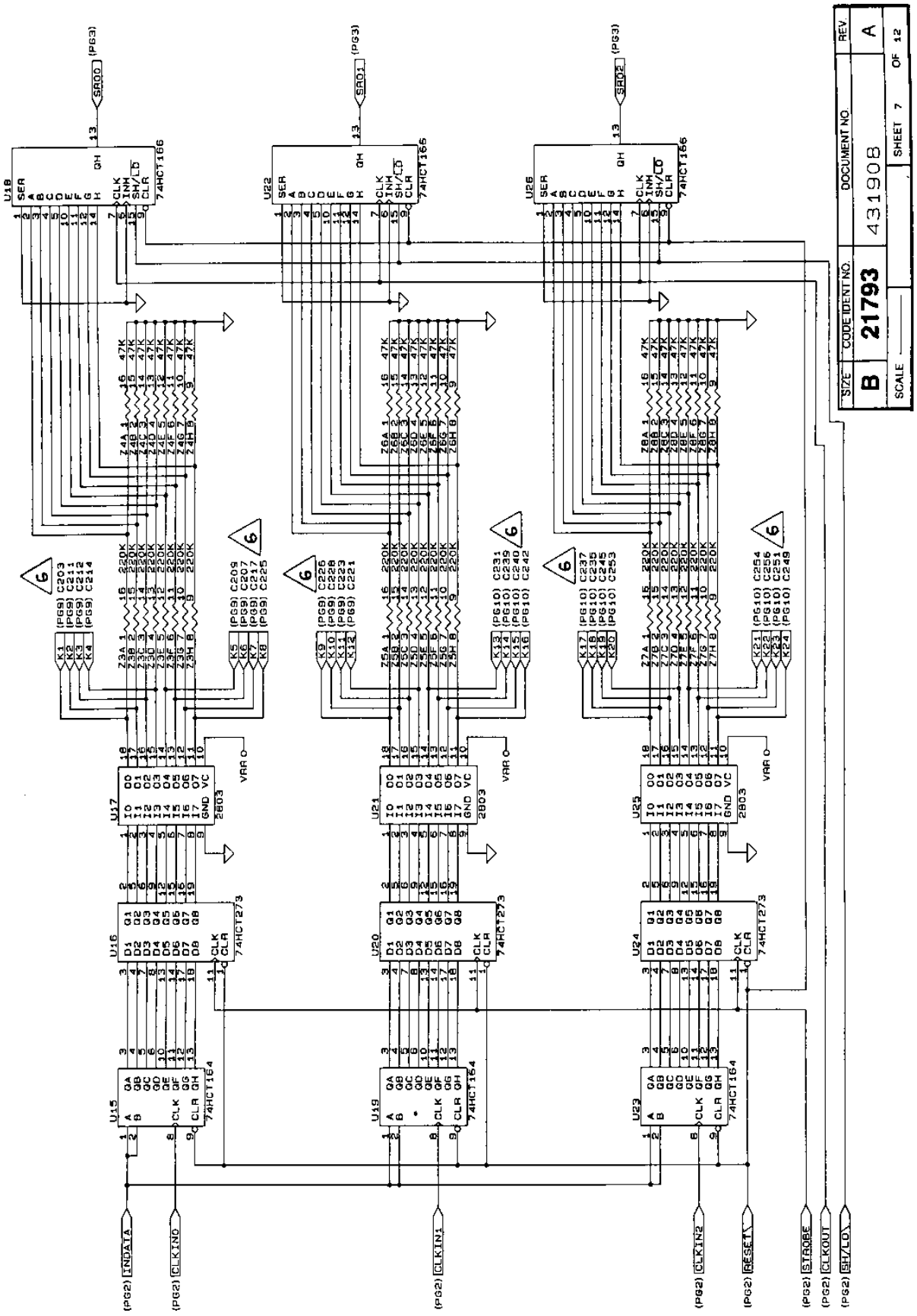
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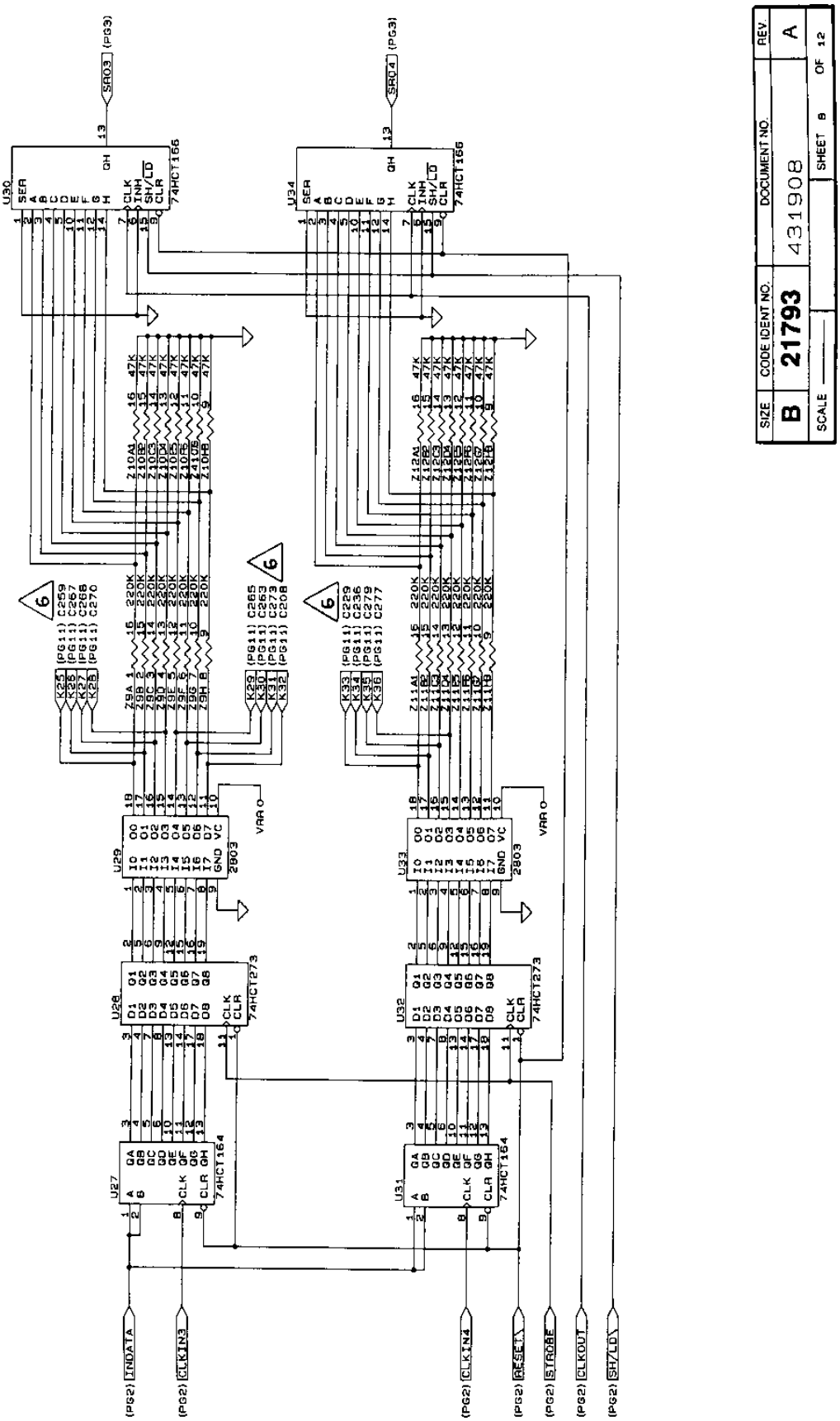
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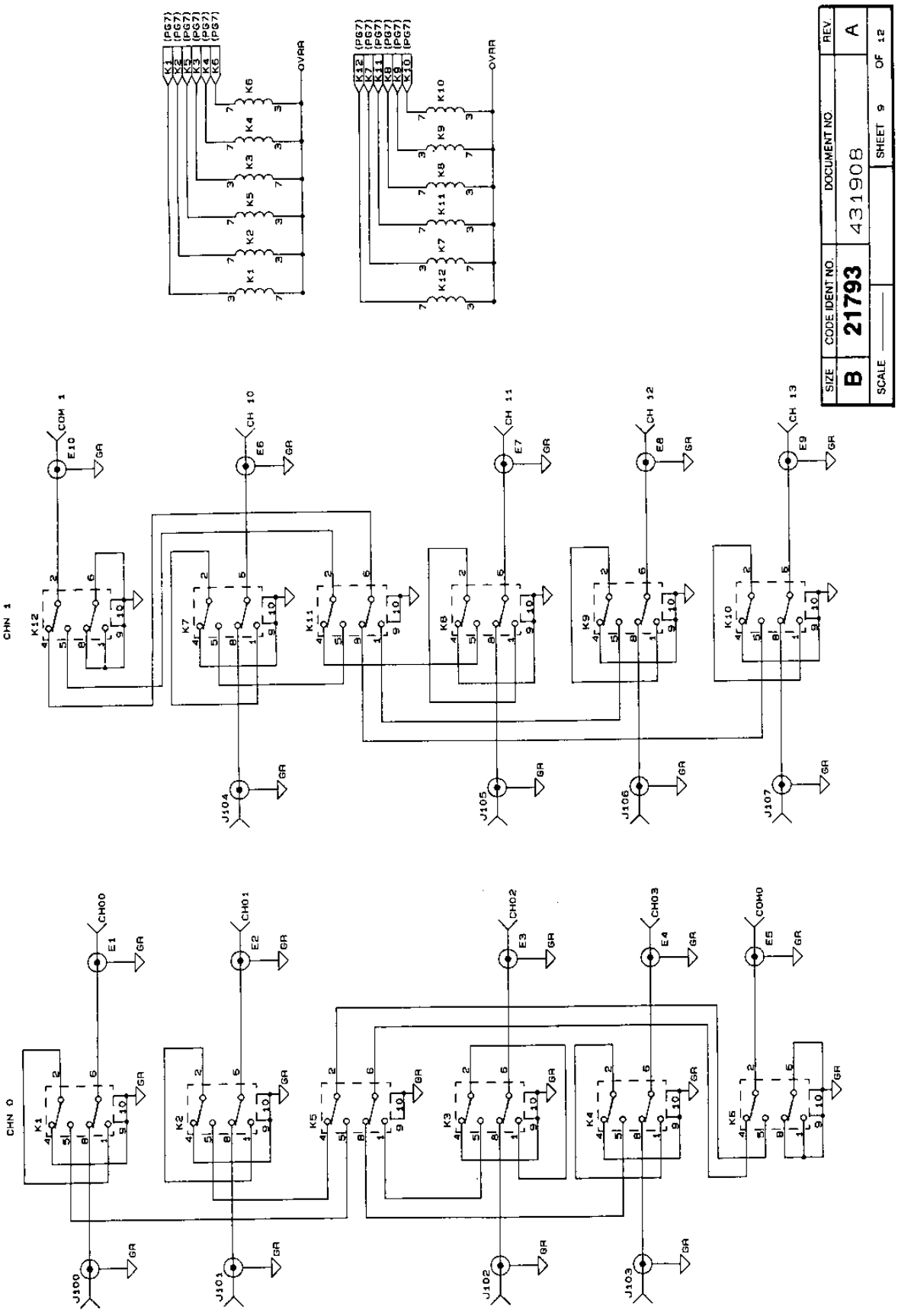
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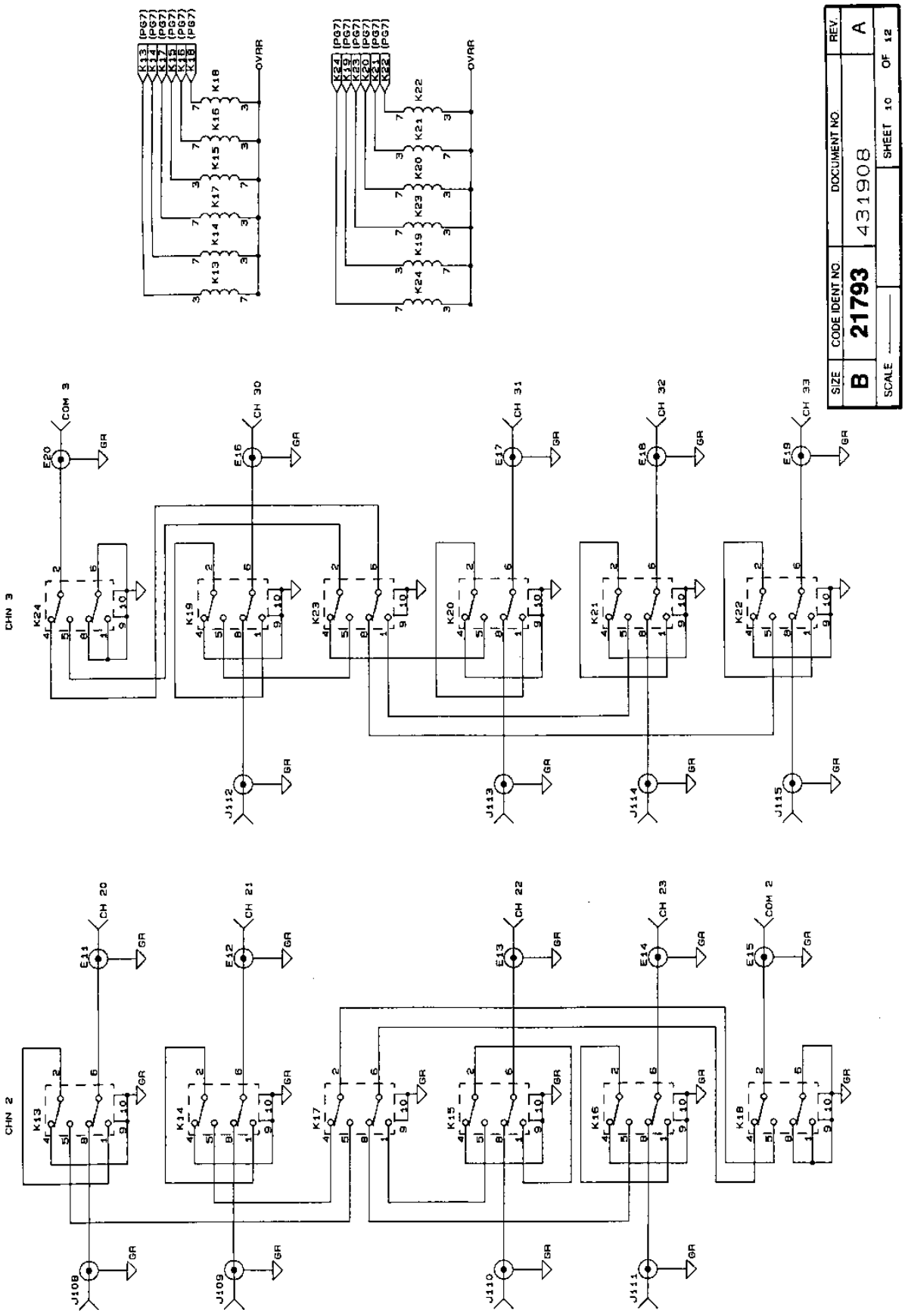
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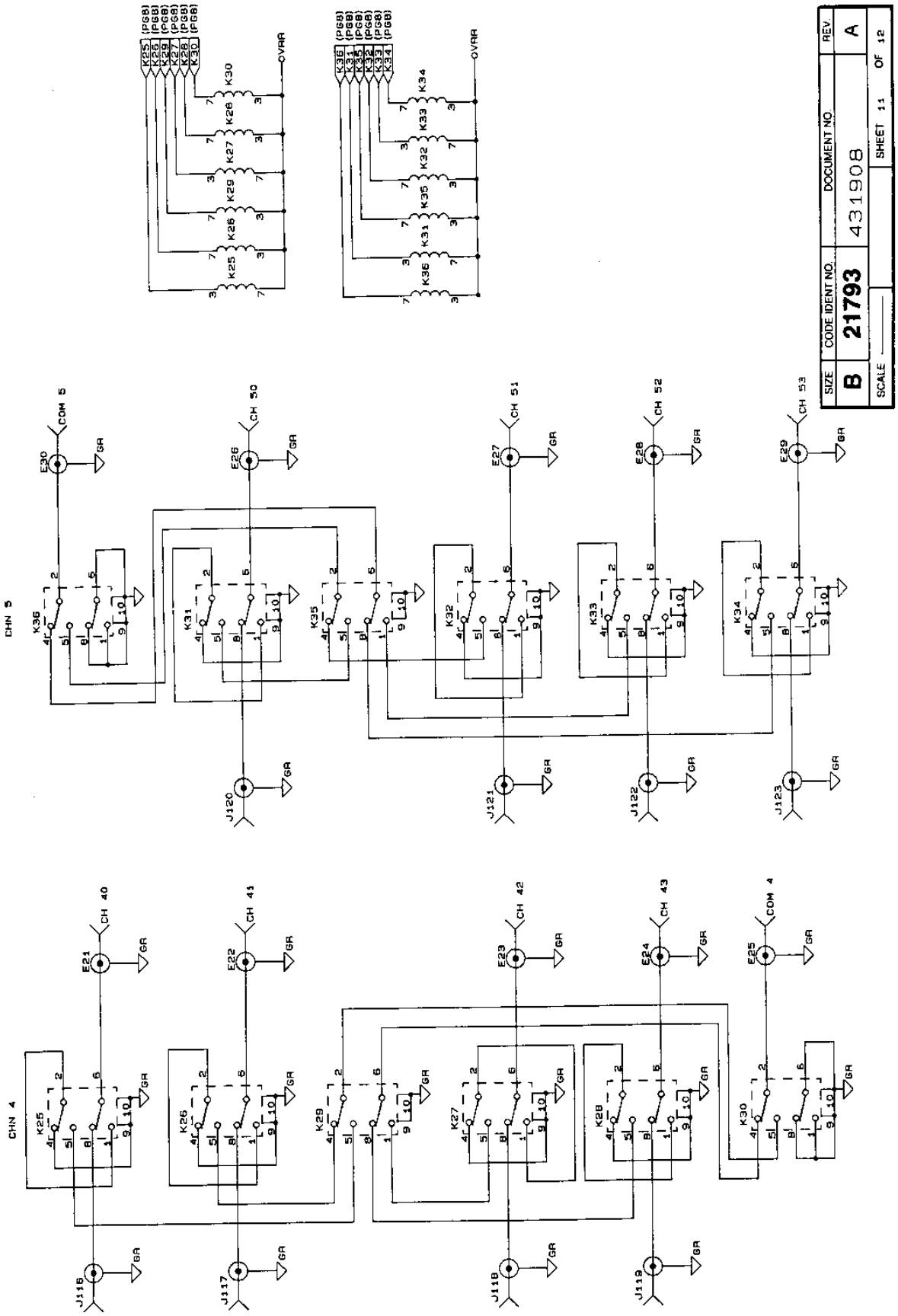
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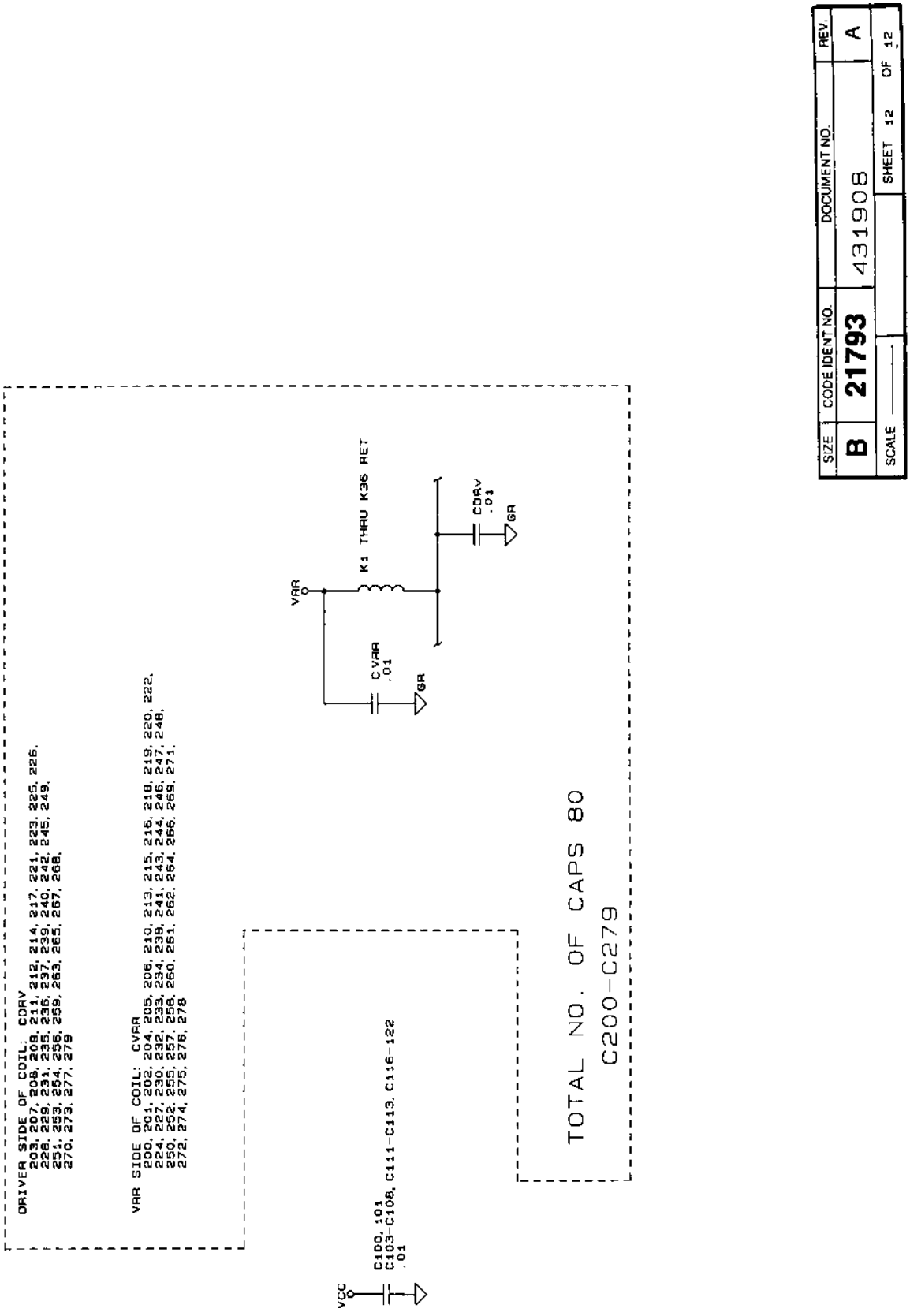
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Chapter 5
PARTS LIST

404768, Final Assembly, 1260-54 5-3
401908, PCB Assy, 1260-54 5-4
407101, Shipping Kit, 1260-54 5-6
List of Suppliers 5-7

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404768 - FINAL ASSY, 1260-54

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
{1}1	401908	PCB ASSY., 1260-54	21793	401908
{3}1	407101	SHIPPING KIT, 1260-54	21793	407101
{5}1	921059	LABEL, CAUTION, STATIC	21793	921059
{9}1	455781	PANEL, REAR, SINGLE	21793	455781
{11}1	455784-001	PANEL, VXI TOP	21793	455784-001
{13}1	455784-002	PANEL, VXI BOTTOM	21793	455784-002
{15}1	455780	PANEL, LEFT, 1260-54	21793	455780
{17}1	455780-001	PANEL, RIGHT, 1260-54	21793	455780-001
{19}8	616480	SCREW, PFH, 4-40 X .375	-	-
{21}33	615539	SCREW, PFH, 4-40X. 125	-	-
{23}1	921309	LABEL, VXI SWITCH IDENTIFICATION	21793	921309

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401908 - PCB ASSY, 1260-54

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
C1-C4	110126	CAP, TANTA, 6.8UF, 35V, 20 PERCENT	05397	T355F685M035A5
C100	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C102	130177	CAPACITOR, CHIP, SMD, 270PF	95275	VJ1206A271KXAMT
C102	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C103-C122	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
C200-C279	R-21-1801	CAP, CHIP, 10 NF	95275	VJ1206Y103MF
J3	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J4	601925	CONNECTOR, PCB, RECEPT, 3 ROW, 96P	52072	618008
J100-J123	601787-001	CONNECTOR, COAXIAL, RECEPTACLE	19505	2010-1511-000
K1-K36	310168	RELAY, RF, 2 FORM C	01526	3SAV2590A2
L1	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
L1	600245	JUMPER, INSULATED	52210	L-2007-1
L2	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L3	310193	CHOKE, SHIELDED, 5UH	91637	IH-5-5-10
L4	100164	CAP, FEED-THRU,800PF, 50V	00779	842448-2
P1	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
P2	601675-001	CONNECTOR, EUROCARD, 96 PIN MOD.	21793	601675-001
RV1	220102	VARISTOR, 56V, 1.7W	03508	V56ZA2
SW1-SW3	601969	SWITCH, DIP 6 POS, LOW PROFILE	65832	K406S
TP1	601197	POST, TEST, .025 SQ	00779	6-87022-6
TP2	601197	POST, TEST, .025 SQ	00779	6-87022-6
U1	231152	IC, PROGRAMMED PIA	21793	231152
U2	231153	IC, PROGRAMMED PLA	21793	231153
U3	231154	IC, PROGRAMMED PLA	21793	231154
U4	231147	IC, MULTIPLEXER	04713	74HC253D
U5	231147	IC, MULTIPLEXER	04713	74HC253D
U6	231125	IC, DIGITAL, LINE DRIVER	27014	DS26LS31MN
U7	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U8	231096	IC, QUAD DIFF RECEIVER	01295	AM26LS32ACD
U9	231093	IC, QUAD COMPARATOR	04713	LM339D
U10	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U11	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U12	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U13	231094	IC, DEMUX DECODER	18324	N74LS138D
U14	231135	IC, DIGITAL, 4-BIT COMPARATOR	18324	PC74HCT85D
U15	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U16	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U17	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U18	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U19	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U20	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U21	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U22	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U23	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U24	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U25	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U26	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U27	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U28	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U29	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U30	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
U31	231131	IC, DIGITAL, SHIFT REGISTER	18324	PC74HCT164D
U32	231130	IC, DIGITAL, FLIP FLOP	18324	PC74HC273
U33	231098	IC, SOIC TRANSISTOR	56289	ULN-2803LW
U34	231120	IC, 8-BIT, PARALLEL/SERIAL OUT S.R.	18324	74HCT166D
W1	601208-016	CONNECTOR, PCB, PLUG, 3-PIN	52072	CA-S03-23B-43

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401908 PCB ASSY., 1260-54

REF DESIG	RACAL-INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
Z1	080114	RES NETWORK, 16P8R, 15K	73138	628-AL-153J
Z2	080120	RES NETWORK, 10K	11236	767-161R10K
Z3	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z4	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z5	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z6	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z7	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z8	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z9	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z10	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
Z11	080119	RES NETWORK, 220K	91637	SOMC-1603-224K
Z12	080117	RES NETWORK, 16P8R, 47K	73138	628-AL-473J
{35}1	401951	PCB ASSY., LBUS JUMPER	21793	401951
{36}1	401951-003	PCB ASSY., P3 JUMPER	21793	401951-003
{37}1	411908	PCB 1260-54 (UNLOADED)	21793	411908
{41}1	455687-002	PANEL, FRONT, SMC CONNECTOR	21793	455687-002
{42}1	601984	BRACKET, SUPPORT, PCB	67349	VMEB2000
{43}A/R	500009	TUBING, SHRINK,. 12 ID, BLK	29005	RNF-100-1-1/8
{44}A/R	500254	CABLE, COAXIAL, 50 OHM	92194	9178B
{48}1	601195	PLUG, JUMPER, 0.1 CTR, LOW PROFILE	00779	530153-2
{56}30	601944	CONNECTOR, RECEPTACLE, PANEL MOUNT SMC	98291	50-010-3196
{57}12	610777	CABLE TIE	16956	08-432
{59}30	611348	WASHER, #8, FLAT PHENOLIC INSUL.	86928	5620-10-31
{60}30	611349	WASHER, SHOULDER, PHENOLIC INSUL.	55566	5777-PH-045-208
{61}3	611258-001	STANDOFF, SWAGE 4-40 X .170	06540	8091-11B-B-440-28
{62}1	611264	HANDLE, EXTRACTOR, BOTTOM	62559	20817-327
{63}1	615016	SCREW, PPH, 2-56 X .375	-	-
{64}1	615514	SCREW, PFH, 2-56 X .312	-	-
{65}1	611265	HANDLE, EXTRACTOR, TOP	62559	20817-328
{66}2	617002	NUT, HEX, 2-56	-	-
{67}1	617101	WASHER, FLAT, LIGHT SERIES, #2	-	-
{68}A/R	920962	LOCTITE, 242, MED STR.	05972	272
{69}.5	611266	MOUNTING HARDWARE, HANDLE	62559	21100-745
{70}1	921148-001	LABEL SET,VXI	21793	921148-001
{71}2	616405	SCREW, PFH, M2.5-.45 X 12	-	-

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407101 - SHIPPING KIT, 1260-54

REF DESIG	RACAL INST P/N	DESCRIPTION	FSC	MANUFACTURER'S P/N
(1)2	455540	KEY, LOCKOUT, TTL, A/C	21793	455540
(2)2	455541	KEY, LOCKOUT, TTL, C	21793	455541
(3)2	455542	KEY, LOCKOUT, TTL, A	21793	455542
(5)3	615013	SCREW, PPF, 2-56 X .188	-	-
(10)1	980673-009	MANUAL, 1260-54 MODULE	21793	980673-009

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List of Suppliers

FSC	SUPPLIER
00779	AMP, INC. HARRISBURG, PA
01295	TEXAS INSTRUMENTS, INC. DALLAS, TX
01526	GENICOM CORP. WAYNESBORO, VA
03508	GENERAL ELECTRIC CO. (SEMICONDUCTOR PRODUCTS) AUBURN, NY
04713	MOTOROLA, INC. (SEMICONDUCTOR PRODUCTS DIV.) PHOENIX, AZ
05397	UNION CARBIDE CORP. (MATERIALS SYSTEMS DIV.) CLEVELAND, OH
05972	LOCTITE CORP. HARTFORD, CT
06540	AMATOM ELECTRONIC HARDWARE NEW ROCHELLE, NY
11236	CTS OF BERNE, INC. BERNE, IN
16956	DENNISON MFG. CO. FRAMINGTON, MA
18324	SIGNETICS, INC. SUNNYVALE, CA
19505	APPLIED ENGINEERING PRODUCTS NEW HAVEN, CT
21793	RACAL INSTRUMENTS INC. IRVINE, CA
27014	NATIONAL SEMI-CONDUCTOR CORP. SANTA CLARA, CA
29005	STORM PRODUCTS CO. LOS ANGELES, CA
52072	CIRCUIT ASSY. CORP. COSTA MESA, CA
52210	GETTING ENGRG. & MFG. CO. SPRING MILLS, PA
55566	RAF ELECTRONIC HARDWARE INC. SEYMOUR, CT
56289	SPAGUE ELECTRIC CO. N. ADAMS, MA
62559	SCHROFF, INC. WARWICK, RI
65832	AMERICAN RESEARCH & ENGINEERING ELGIN, IL
67349	PHILLIPS COMPONENTS INC. LAGUNA HILLS, CA
73138	BECKMAN INSTRUMENTS FULLERTON, CA
86928	SEASTROM MFG. CO. GLENDALE, CA
91637	DALE ELECTRONICS, INC. COLUMBUS, NE
92194	ALPHA WIRE ELIZABETH, NJ
95275	VITRAMON, INC. BRIDGEPORT, CT
98291	SEALECTRO CORP. MAMARONECK, NY

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Chapter 6

OPTIONAL HARNESS ASSEMBLIES

The following harness assemblies are used to connect Racal Instruments Model 1260-54 to Freedom Series Test Receiver Interfaces.

Each harness documentation consists of an assembly drawing, parts list, and wire list.

407291, Virginia Panel, Inc. Series VP90 Interface Harness 6-3

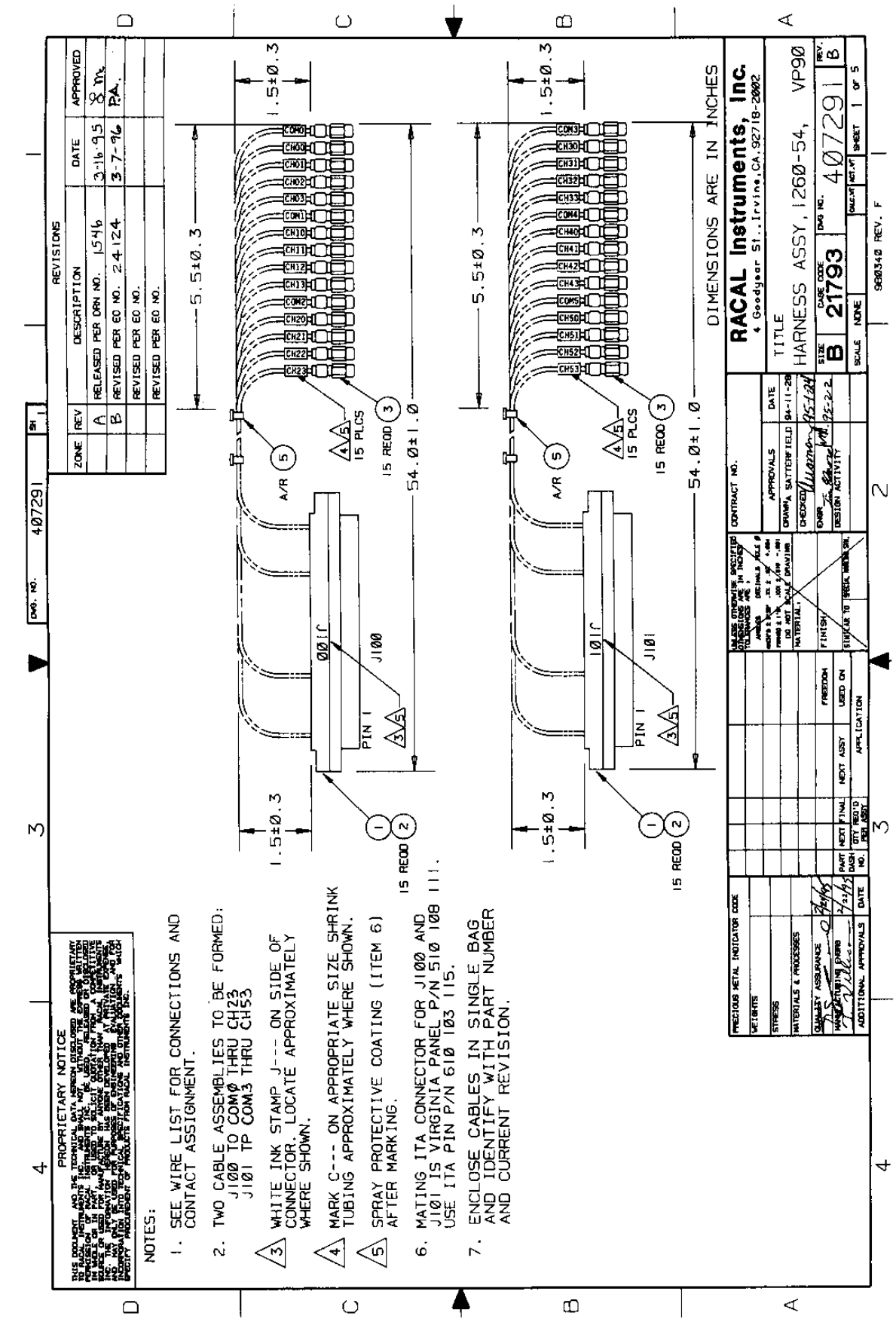
407292, TTI Testron, Inc. Interface Harness 6-8
(TTI Receiver must be above chassis)

For more information on Racal Instruments complete line of Test Receiver Interface solutions, contact your Sales Representative.

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ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		602201-008	CON-RCV-PLG019C.---S-VP90	2	J100-J101
2		602201-807	PATCHCORD,MINI-COAX,50OHM 60"	30	W/J100-J101
3		600483	CON-CXL-PLG-1SD.----S	30	CH00-COM5
4					
5		610777	TIE-CA-LKG-.062-.075	A/R	
6		910541	POLYURETHANE CONF. COAT	A/R	

DOC. NO. 407291

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-54C, VP90	A	21793	407291	B
	DRN			SHEET 2 of 5

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AA (J100)	Uxx-SLOT yy (E1-E15)	CABLE	407291		SYSTEM WIRE LIST
	BLK AA (J101)	Uxx-SLOT yy (E16-E30)	CABLE	407291		

This system wirelist serves as a template for incorporating this harness assembly into the overall system wirelist. It does not in any way affect the fabrication of this harness assembly.

DOC. NO. 407291

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-54C, VP90	A	21793	407291	B
	DRN			SHEET 3 of 5

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100-1 (602201-008)	E1 (600483)	COAX	602201-807	54"	CHANNEL 00
2	J100-2 (602201-008)	E2 (600483)	COAX	602201-807	54"	CHANNEL 01
3	J100-3 (602201-008)	E3 (600483)	COAX	602201-807	54"	CHANNEL 02
4	J100-4 (602201-008)	E4 (600483)	COAX	602201-807	54"	CHANNEL 03
5	J100-5 (602201-008)	E5 (600483)	COAX	602201-807	54"	COM 0
6	J100-6 (602201-008)	E6 (600483)	COAX	602201-807	54"	CHANNEL 10
7	J100-7 (602201-008)	E7 (600483)	COAX	602201-807	54"	CHANNEL 11
8	J100-8 (602201-008)	E8 (600483)	COAX	602201-807	54"	CHANNEL 12
9	J100-9 (602201-008)	E9 (600483)	COAX	602201-807	54"	CHANNEL 13
10	J100-10 (602201-008)	E10 (600483)	COAX	602201-807	54"	COM 1
11	J100-11 (602201-008)	E11 (600483)	COAX	602201-807	54"	CHANNEL 20
12	J100-12 (602201-008)	E12 (600483)	COAX	602201-807	54"	CHANNEL 21
13	J100-13 (602201-008)	E13 (600483)	COAX	602201-807	54"	CHANNEL 22
14	J100-14 (602201-008)	E14 (600483)	COAX	602201-807	54"	CHANNEL 23
15	J100-15 (602201-008)	E15 (600483)	COAX	602201-807	54"	COM 2
16	J100-16 NO CONNECT					
17	J100-17 NO CONNECT					
18	J100-18 NO CONNECT					
19	J100-19 NO CONNECT					
20	J101-1 (602201-008)	E16 (600483)	COAX	602201-807	54"	CHANNEL 30
21	J101-2 (602201-008)	E17 (600483)	COAX	602201-807	54"	CHANNEL 31
22	J101-3 (602201-008)	E18 (600483)	COAX	602201-807	54"	CHANNEL 32
23	J101-4 (602201-008)	E19 (600483)	COAX	602201-807	54"	CHANNEL 33
24	J101-5 (602201-008)	E20 (600483)	COAX	602201-807	54"	COM 3
25	J101-6 (602201-008)	E21 (600483)	COAX	602201-807	54"	CHANNEL 40

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-54C, VP90	A	21793	407291	B
	DRN			SHEET 4 of 5

DOC. NO. 407291

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ENGINEERING WIRE LIST

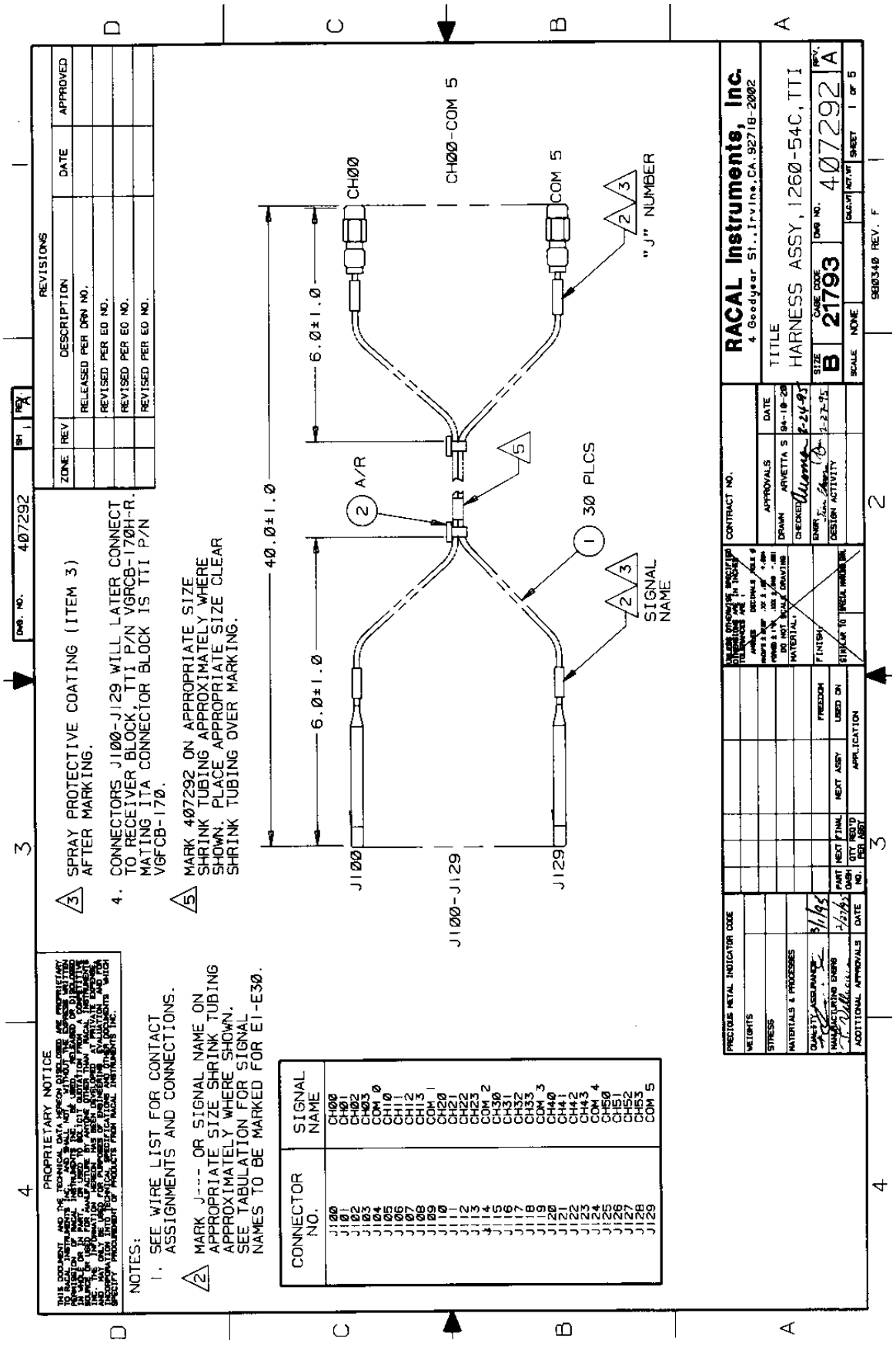
WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
26	J101-7 (602201-008)	E22 (600483)	COAX	602201-807	54"	CHANNEL 41
27	J101-8 (602201-008)	E23 (600483)	COAX	602201-807	54"	CHANNEL 42
28	J101-9 (602201-008)	E24 (600483)	COAX	602201-807	54"	CHANNEL 43
29	J101-10 (602201-008)	E25 (600483)	COAX	602201-807	54"	COM 4
30	J101-11 (602201-008)	E26 (600483)	COAX	602201-807	54"	CHANNEL 50
31	J101-12 (602201-008)	E27 (600483)	COAX	602201-807	54"	CHANNEL 51
32	J101-13 (602201-008)	E28 (600483)	COAX	602201-807	54"	CHANNEL 52
33	J101-14 (602201-008)	E29 (600483)	COAX	602201-807	54"	CHANNEL 53
34	J101-15 (602201-008)	E30 (600483)	COAX	602201-807	54"	COM 5
35	J101-16 NO CONNECT					
36	J101-17 NO CONNECT					
37	J101-18 NO CONNECT					
38	J101-19 NO CONNECT					

DOC. NO. 407291

RACAL Instruments, Inc., 4 Goodyear St., Irvine, CA 92718

DOCUMENT TITLE	SIZE	CODE NO.	DOCUMENT NO.	REV
HARNESS ASSEMBLY, 1260-54C, VP90	A	21793	407291	B
	DRN			SHEET 5 of 5

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ENGINEERING PARTS LIST

ITEM	BIN	PART NO.	DESCRIPTION	QTY	REFERENCE
1		407263	CABLE ASSY, COAX/SMC,TTI	30	
2		610777	TIE-CA-LKG-.064-.075	A/R	
3		910541	POLYURETHANE CONF. COAT	A/R	

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 01 (J100)	Uxx-SLOT yy (CH00)	CABLE	407292		SYSTEM WIRE LIST
	BLK AAx PN 02 (J101)	Uxx-SLOT yy (CH01)	CABLE	407292		
	BLK AAx PN 03 (J102)	Uxx-SLOT yy (CH02)	CABLE	407292		
	BLK AAx PN 04 (J103)	Uxx-SLOT yy (CH03)	CABLE	407292		
	BLK AAx PN 05 (J104)	Uxx-SLOT yy (COM 0)	CABLE	407292		
	BLK AAx PN 06 (J105)	Uxx-SLOT yy (CH10)	CABLE	407292		
	BLK AAx PN 07 (J106)	Uxx-SLOT yy (CH11)	CABLE	407292		
	BLK AAx PN 08 (J107)	Uxx-SLOT yy (CH12)	CABLE	407292		
	BLK AAx PN 09 (J108)	Uxx-SLOT yy (CH13)	CABLE	407292		
	BLK AAx PN 10 (J109)	Uxx-SLOT yy (COM 1)	CABLE	407292		
	BLK AAx PN 11 (J110)	Uxx-SLOT yy (CH20)	CABLE	407292		
	BLK AAx PN 12 (J111)	Uxx-SLOT yy (CH21)	CABLE	407292		
	BLK AAx PN 13 (J112)	Uxx-SLOT yy (CH22)	CABLE	407292		
	BLK AAx PN 14 (J113)	Uxx-SLOT yy (CH23)	CABLE	407292		
	BLK AAx PN 15 (J114)	Uxx-SLOT yy (COM 2)	CABLE	407292		
	BLK AAx PN 16 (J115)	Uxx-SLOT yy (CH30)	CABLE	407292		
	BLK AAx PN 17 (J116)	Uxx-SLOT yy (CH31)	CABLE	407292		
	BLK AAx PN 18 (J117)	Uxx-SLOT yy (CH32)	CABLE	407292		
	BLK AAx PN 19 (J118)	Uxx-SLOT yy (CH33)	CABLE	407292		
	BLK AAx PN 20 (J119)	Uxx-SLOT yy (COM 3)	CABLE	407292		
	BLK AAx PN 21 (J120)	Uxx-SLOT yy (CH40)	CABLE	407292		
	BLK AAx PN 22 (J121)	Uxx-SLOT yy (CH41)	CABLE	407292		
	BLK AAx PN 23 (J122)	Uxx-SLOT yy (CH42)	CABLE	407292		
	BLK AAx PN 24 (J123)	Uxx-SLOT yy (CH43)	CABLE	407292		
	BLK AAx PN 25 (J124)	Uxx-SLOT yy (COM 4)	CABLE	407292		

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
	BLK AAx PN 26 (J125)	Uxx-SLOT yy (CH50)	CABLE	407292		
	BLK AAx PN 27 (J126)	Uxx-SLOT yy (CH51)	CABLE	407292		
	BLK AAx PN 28 (J127)	Uxx-SLOT yy (CH52)	CABLE	407292		
	BLK AAx PN 29 (J128)	Uxx-SLOT yy (CH53)	CABLE	407292		
	BLK AAx PN 30 (J129)	Uxx-SLOT yy (COM 5)	CABLE	407292		

This system wirelist serves as a template for incorporating this harness assembly into the overall system wirelist. It does not in any way affect the fabrication of this harness assembly.

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ENGINEERING WIRE LIST

WIRE	FROM	TO	TYPE	PART #	WIRE LEN	REFERENCE
1	J100	CH00	COAX	407263	40"	CHANNEL 00
2	J101	CH01	COAX	407263	40"	CHANNEL 01
3	J102	CH02	COAX	407263	40"	CHANNEL 02
4	J103	CH03	COAX	407263	40"	CHANNEL 03
5	J104	COM 0	COAX	407263	40"	COM 0
6	J105	CH10	COAX	407263	40"	CHANNEL 10
7	J106	CH11	COAX	407263	40"	CHANNEL 11
8	J107	CH12	COAX	407263	40"	CHANNEL 12
9	J108	CH13	COAX	407263	40"	CHANNEL 13
10	J109	COM 1	COAX	407263	40"	COM 1
11	J110	CH20	COAX	407263	40"	CHANNEL 20
12	J111	CH21	COAX	407263	40"	CHANNEL 21
13	J112	CH22	COAX	407263	40"	CHANNEL 22
14	J113	CH23	COAX	407263	40"	CHANNEL 23
15	J114	COM 2	COAX	407263	40"	COM 2
16	J115	CH30	COAX	407263	40"	CHANNEL 30
17	J116	CH31	COAX	407263	40"	CHANNEL 31
18	J117	CH32	COAX	407263	40"	CHANNEL 32
19	J118	CH33	COAX	407263	40"	CHANNEL 33
20	J119	COM 3	COAX	407263	40"	COM 3
21	J120	CH40	COAX	407263	40"	CHANNEL 40
22	J121	CH41	COAX	407263	40"	CHANNEL 41
23	J122	CH42	COAX	407263	40"	CHANNEL 42
24	J123	CH43	COAX	407263	40"	CHANNEL 43
25	J124	COM 4	COAX	407263	40"	COM 4
26	J125	CH50	COAX	407263	40"	CHANNEL 50
27	J126	CH51	COAX	407263	40"	CHANNEL 51
28	J127	CH52	COAX	407263	40"	CHANNEL 52
29	J128	CH53	COAX	407263	40"	CHANNEL 53
30	J129	COM 5	COAX	407263	40"	COM 5

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Chapter 7
PRODUCT SUPPORT

Product Support

Racal Instruments has a complete Service and Parts Department. If you need technical assistance or should it be necessary to return your product for repair or calibration, call 1-800-722-3262. If parts are required to repair the product at your facility, call 1-949-859-8999 and ask for the Parts Department.

When sending your instrument in for repair, complete the form in the back of this manual.

For worldwide support and the office closes to your facility, refer to the Support Offices section on the following page.

Reshipment Instructions

Use the original packing material when returning the 1260-54 to Racal Instruments for calibration or servicing. The original shipping crate and associated packaging material will provide the necessary protection for safe reshipment.

If the original packing material is unavailable, contact Racal Instruments Customer Service for information.

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Support Offices

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4 Goodyear St., Irvine, CA 92618-2002
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