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Installation KI-1354A

# 2417 Correction Module



**Rauland-Borg Corporation**

Issued: 07/01/98

Page 1 of 6

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**Rauland-Borg Corporation**  
3450 West Oakton Street  
Skokie, Illinois 60076-2958  
(847) 679-0900  
[www.rauland.com](http://www.rauland.com)

# Table of Contents

<b>GENERAL INFORMATION</b> .....	<b>4</b>
DESCRIPTION.....	4
REVISION HISTORY .....	4
PACKING LIST .....	5
DRAWINGS, DIAGRAMS, AND OTHER GRAPHICS .....	5
<b>INSTALLATION</b> .....	<b>6</b>
MECHANICAL INSTALLATION .....	6

1

# General Information

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## Description



The Rauland 2417 Correction Module accepts serial data from the Master Clock and controls the power supply for the digital secondary clocks.

The Correction Module also allows corrections in time control systems that use both digital and analog secondary clocks. One module is required for each twenty-five digital secondary clocks. It can be mounted inside either the 2415 (see KI-1356) or the 2416 (see KI-1355) Power Supply. A schematic of the 2417 is also attached.

## Revision History



This manual has been reformatted. No substantive changes were made during the reformatting process.

# Packing List



The 2417 consists of the following:

Quantity	Part	Part Number
4	Circuit Board Support	QP0656-1
1	Circuit Board Assembly	VC7044

# Drawings, Diagrams, and Other Graphics



This document includes the following drawings, diagrams, and/or supplemental graphics:

- ✓ 2415 24-VAC Power Supply Drawing (KM0609)
- ✓ 2416 120-VAC Power Supply Drawing (KM0610)
- ✓ 2417 Correction Module Installation Drawing (KM0610)
- ✓ KC1429

# 2

## Installation

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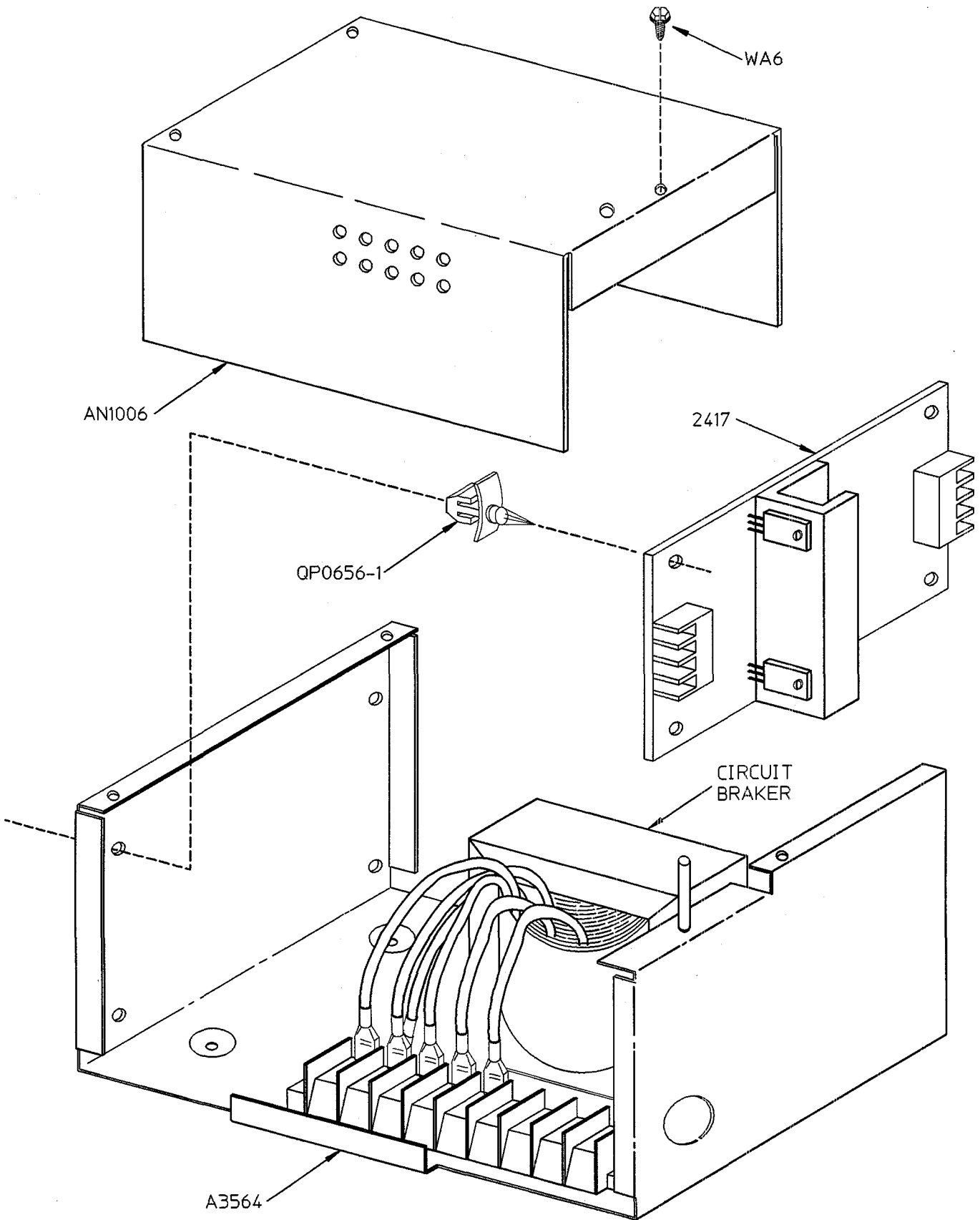
### Mechanical Installation



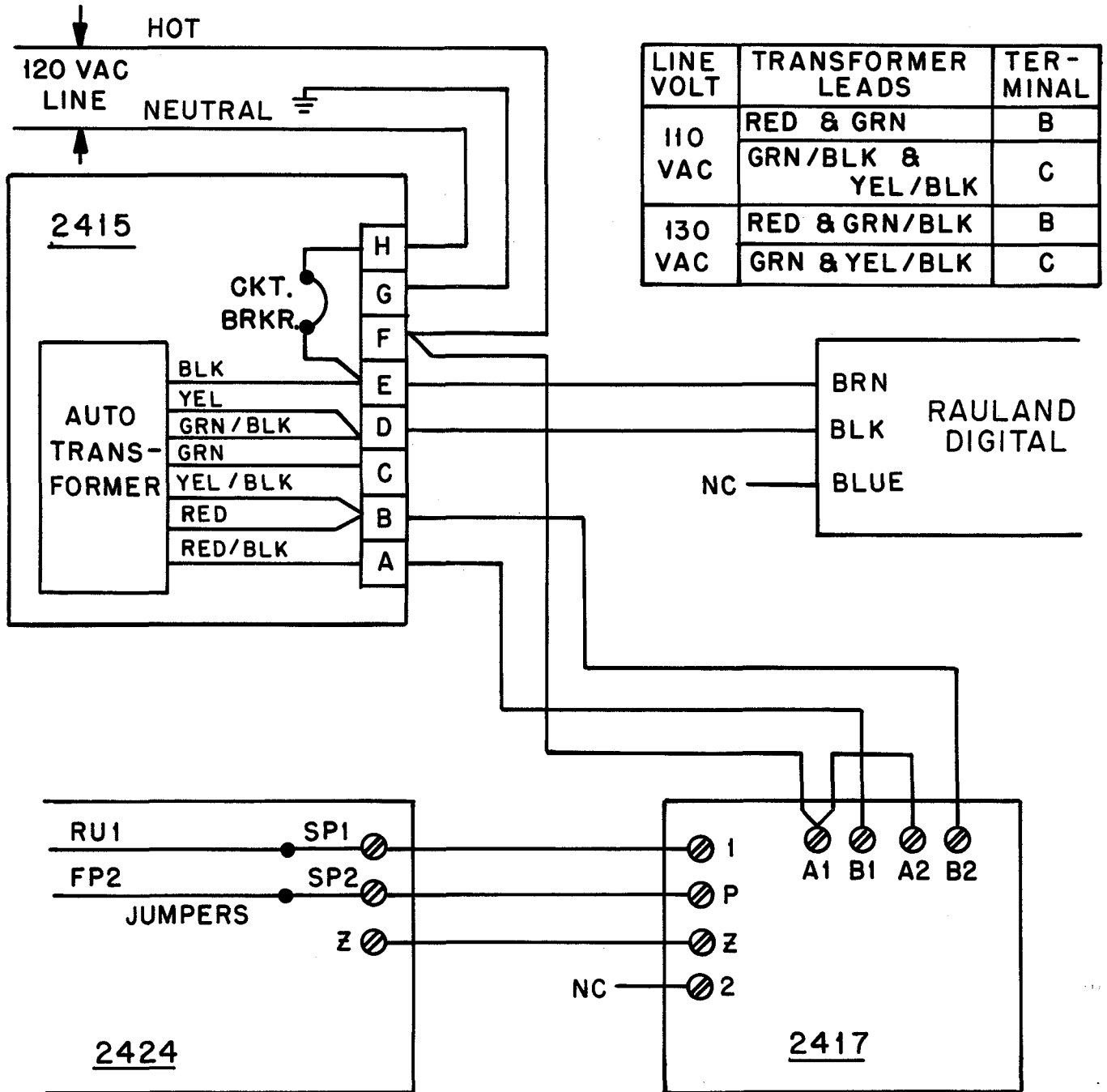
Refer to figure 1 for either the 2415 or the 2416.

1. Make sure that the AC power to the master clock is disconnected.
2. Remove the three WA6 screws securing the AN1006 cover, then remove the cover.
3. Insert the four QP0656-1 circuit board supports into the four holes of the adapter module.
4. Align the adapter module, with its foil side towards the inside of the chassis, opposite the transformer. snap the circuit board supports into the four holes in the chassis wall.
5. Refer to the wiring diagrams in either KM0609 (2415) or KM0610 (2416) for related wiring information and make the electrical connections. Select a knockout for the electrical wiring.
6. Replace the AN1006 cover and fasten it with the three WA6 screws you previously removed. Depress the circuit breaker several times to be sure it does not bind after the cover is replaced.
7. Program the Master Clock according to normal procedures provided in its manual.

# 2417 Correction Module Installation



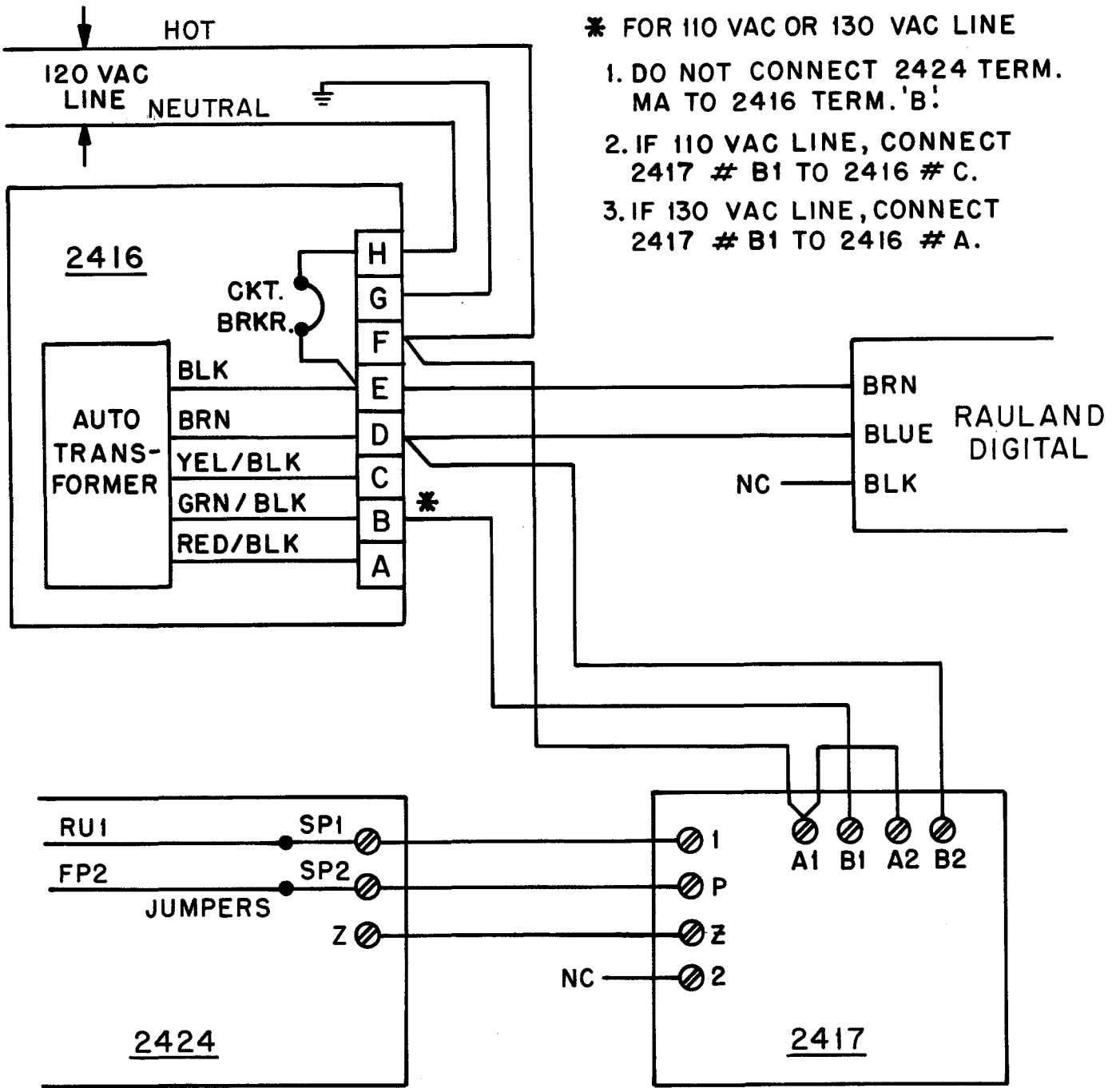
IL0607



JUMPER REQUIRED	CORRECTION
ON ZRM BOARD PUT TWO JUMPERS FROM RU1 TO SP1, AND FP2 TO SP2.	<ul style="list-style-type: none"> <li>● CORRECTION EVERY 12 HOURS AT 12:01</li> <li>● CORRECTION WHEN TIME IS SET</li> <li>● CORRECTION AFTER POWER FAILURE</li> <li>● DAYLIGHT SAVING UPDATING</li> </ul>

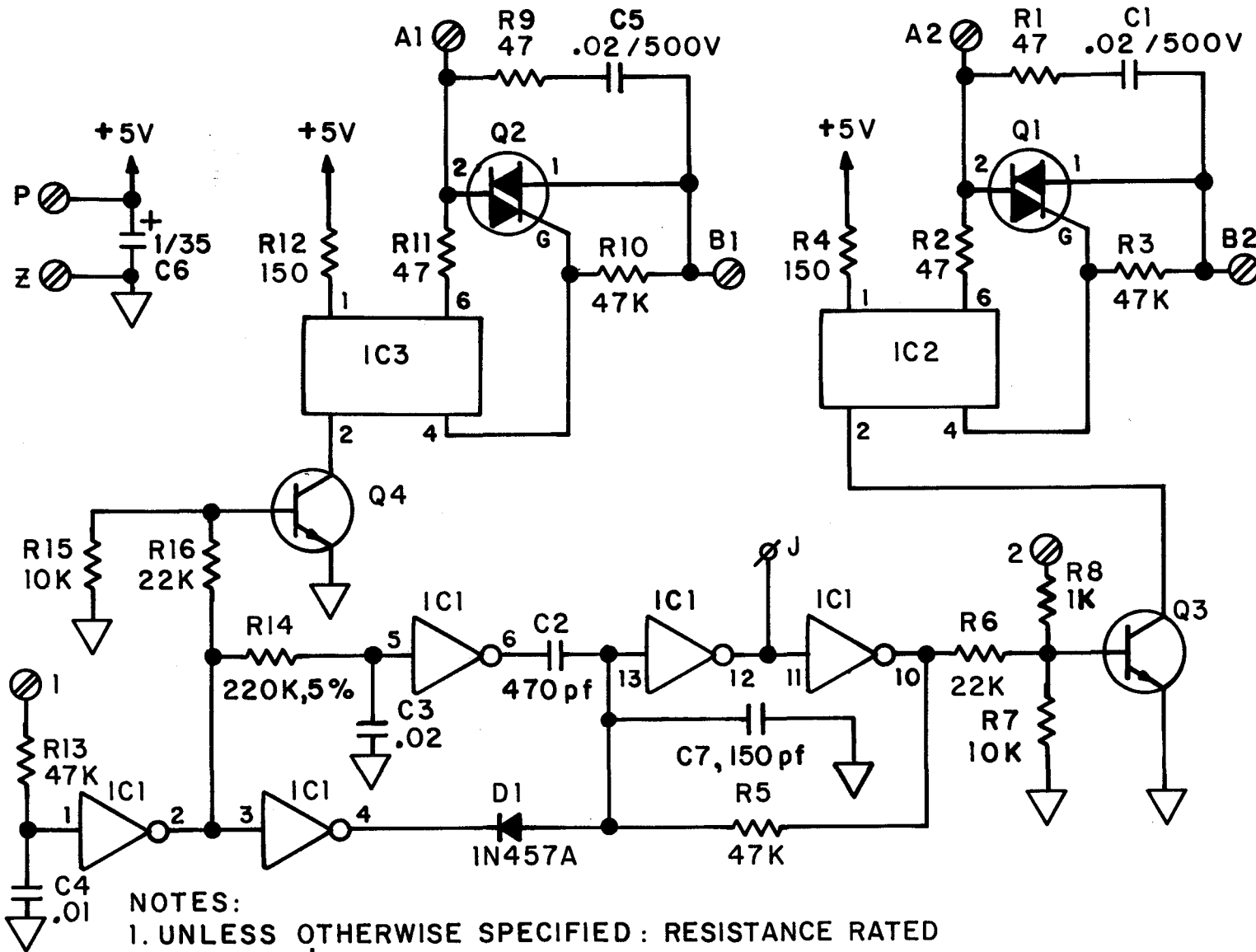
**CONNECTING THE 2417 TO A 24-VAC SYSTEM**





JUMPER REQUIRED	CORRECTION
ON ZRM BOARD PUT TWO JUMPERS FROM RU1 TO SP1 AND FP2 TO SP2.	<ul style="list-style-type: none"> <li>• CORRECTION EVERY 12 HOURS AT 12:01</li> <li>• CORRECTION WHEN TIME IS SET</li> <li>• CORRECTION AFTER POWER FAILURE.</li> <li>• DAYLIGHT SAVING UPDATING</li> </ul>

**CONNECTING THE 2417 TO A 120-VAC SYSTEM**



**NOTES:**

1. UNLESS OTHERWISE SPECIFIED: RESISTANCE RATED IN OHMS  $\pm 10\%$  K=1,000 M=1,000,000.
2. CAPACITANCE RATED IN MICROFARADS. pf = PICO FARAD
3. RESISTORS ARE 1/4 WATT.

KC-1429		B
8-2-82		
ISS.	CHANGE	
A	Q3, Q4, WERE ETS014A. 8-1-83	
B	C1, C5 WERE .022 8-5-83	

COMPONENT	Q1, 2	Q3, 4	IC1	IC2, 3
TYPE	ETSC146B	ETMPS6515	EC0078	EC0127

**MODEL 2417**  
**ADAPTER MODULE**  
 RAULAND-BORG  
 CHICAGO, ILL.  
 MADE IN U.S.A.  
 KC-1429 **B**