UNITEC Replacement for 1Y-6631C Relay Switch
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PUBLICATION CATALOGING DATA

First Issue: August 15, 2008
Master Index Control Number: UT-ID 1.2.2.9-2
Part Number: UT-ID 1.2.2.9-2

Comments or questions about the information contained in this publication should be directed to:

UNITEC
212 West Newberry Road
Bloomfield, CT 06002
(800) 328-7840 Phone
(860) 286-1625 Fax

Unpublished Work - UNITEC, 2008
Description

The 1Y-6631C electromechanical rotary switch was used in dumbwaiter systems as part of the dispatch and calling circuit.

The 1Y-6631C electromechanical rotary switches have become obsolete; while an electronic replacement is available, it will not fit in the same location as the original switch. A kit AAA21190K2 has been assembled to aid in the installation of this replacement.

The kit contains a wiring harness, ring terminals, AAA21750F1 PCBs on a mounting plate and a copy of this ID.

Table 1: Ordering Information

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Replacement for 1Y-6631C</td>
<td>AAA21190K2</td>
<td>Contains PCB, mounting plate, wiring harness, ring terminals, and ID</td>
</tr>
<tr>
<td>Box for mounting external to controller</td>
<td>AAA308TB1</td>
<td>Optional, only needed if room not available in the dispatch controller</td>
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Required Tools

- Crimping tool (for #18 AWG ring and butt terminals)
- Electrical Insulation Tape
- Power Drill
Figure 1: AAA21190K1 Relay I/O PCB Installed in a System

Diagrams of Cables in AAA21190K Kit

Figure 2: J1, J2 Cable

WARNING: The use and ownership of this work is defined in the legend upon the front page hereof.
Figure 3: J4 Cable

Figure 4: J5 Cable
Figure 5: J7 Cable

AAA174ALD4

- Green with Yellow Stripe Wire
- White with Red Stripe Wire
- Red Wire

Figure 6: J3 Cable (only used for 1Y-6631C replacement)

AAA174ALD5

- Red Wire
- White with Red Stripe Wire
- White with Red Stripe Wire
- White with Red Stripe Wire
- White with Red Stripe Wire
- Red Wire
- White with Red Stripe Wire
Instructions for Replacing the 1Y-6631C Switch

Figure 7: Example of Existing Wiring Diagram
Figure 8: Example of Wiring Diagram with AAA21750F1 Installed
Figure 9: Replacement Wiring to 1Y-6631C Terminal Block
1Y-6631C Wiring Instructions

1. **Lock out and tag out.**

2. Mount the replacement PCB in the controller in a convenient location.

3. On the terminal block for the 1Y-6631C switch remove the wires on T0, T01, T02 and S0 that connect to the 1Y-6631C mechanical components. (This disables the 1Y-6631C from operation without removing it from the controller.) Use electrical tape to insulate these ring terminals.

4. Wire the circuits to the existing 1Y-6631C terminal block as shown in Figure 9 using the ring terminals included in the kit.

5. Remove the wire between C19 and the floor relays (TF.6, 1F.6…).

6. Make a wire between the floor relays (TF.6, 1F.6 …) and HL1. You may use the Post T03 for this purpose if it is easier.

7. Wire J7 harness such that the green wire (J7.3) connects to ground, the black wire (J7.1) connects to 120 VAC, and the White/Black wire (J7.2) connects to 120 VAC return.

8. Turn on 120 VAC supply to PCB.

9. Observe two Green LEDs (LED17 and LED18) illuminated near transformer T2. Observe flashing green LED on processor (AAA26800APJ1).

10. Return the car to service and observe operation.