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Transaction Drawer™ Linear Drive Board Replacement Kit

Table of Contents

Tools Needed:
1/4" Wrench or Nut Driver
Wire Cutter
Wire Stripping and Crimping tool

Parts: Supplied

1 – Linear TD Control Board
6 – Pigtail (Crimp) Connectors
1 – Wire Tie
1 – Pigtail with Red wires

Caution: **Do Not** short the White operator switch wire to the Green operator switch wire as this will burn out the boards power supply!

Installation Procedure:

   Disconnect power from the Transaction Drawer. Activate the "In" button and then the "Out" button to discharge the board capacitor. Remove the back panel from model 20000991 and model 00500991 drawers built through 3/17 by removing the (3) screws across the top of the panel, and the (2) screws from under the bottom. For model 00500991 drawers built 4/17 and later, remove the four Philips screws in the back panel. Pull the bottom of the panel out from the drawer shell and then lower it until the top clears the Stainless Steel flange and rotate so the control cover nuts can be accessed. Loosen the large nut on the strain relief so wire slack can be pulled through. Remove the (6) 1/4" nuts that secure the cover in place, then gently lift the cover to access the control board.

   WARNING: If there is any question about any of the wiring from the Drive Board to the motor, safety bar switches or operator switches, install the new board using the wiring that comes attached. **Do Not** cut and splice as described below. If the safety switch wiring is spliced into the operator switch cable, attach the pig-tail with red wires provided to the safety switch circuit wires that will need to be cut from the operator switch cable, and then plug into the mating connector from the board.

   Before replacing the control board, check the old one to see if it has a separate safety switch circuit, (See page 4).

Disconnect the yellow wires from the transformer and from the circuit breaker. Cut the wire tie that holds the wire to the back panel. Cut the gray cable, black and red wires, and the (2) red wires for the safety switch circuit (if existing), from the old board even with the edge of the board. Remove the (4), 1/4" nuts that secure the old board, and then remove the old board.

The replacement control board included in this kit was designed with a separate safety switch circuit.

If the board you are replacing <u>was equipped</u> with this circuit, and you are reusing the existing wiring, cut off the wires to the connector 4" from the edge of the board and then splice the (2) red 22 ga. wires to the wires coming from the transaction drawer harness.

If the old board <u>was not equipped</u> with the safety switch circuit and you are reusing the existing wiring, simply cut off the connector, strip and connect the wires together using the crimp connector supplied. (See sheet 4) Failure to follow this procedure will render the drawer inoperable for the outbound move.

On the new board, cut the Gray cable, Black wire, and the Red wire so they extend approximately 4" past the edge of the board. Carefully trim the Gray cable's jacket back about 1" to 1-1/2" from the end of the cable on both the new board and the drawer's Gray harness. Strip to the appropriate length all (4) wires in each cable and the Black and Red wires. Using the Pigtail Connectors supplied, connect each wire color to color.

Install the new board onto the back panel and replace the Wire Tie cut earlier. Reconnect both of the Yellow wires to the outer terminals of the transformer, (NOTE: The 1 amp breaker is no longer need, but, is left to cover the hole), and then secure the wires and the cable with the new Wire Tie. Re-install the control cover, tighten the strain relief nut, then reconnect power to the drawer and test operation. Re-install the back panel.

Figure 1

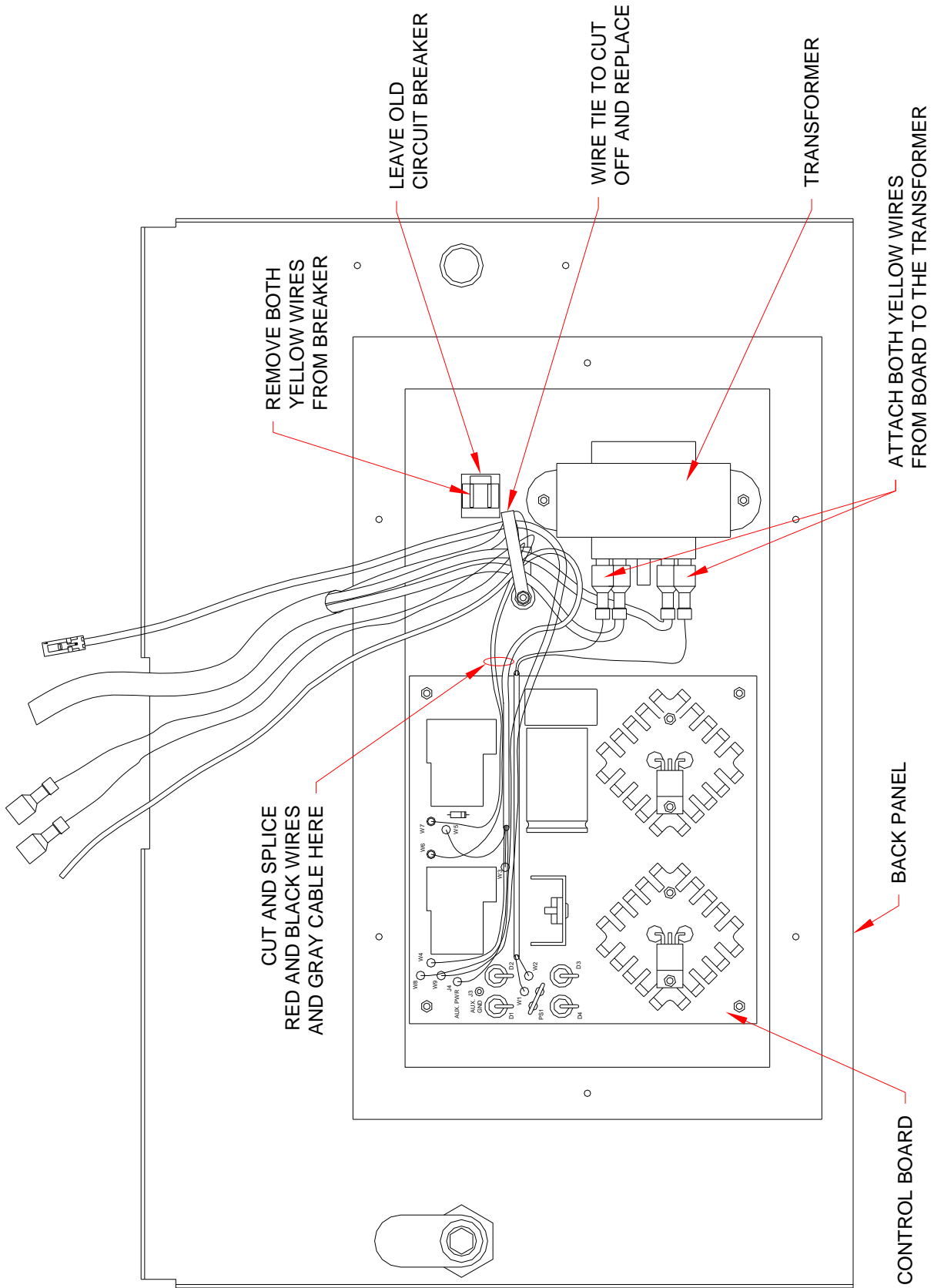REMOVE BOTH YELLOW WIRES FROM BREAKER

LEAVE OLD CIRCUIT BREAKER

WIRE TIE TO CUT OFF AND REPLACE

TRANSFORMER

ATTACH BOTH YELLOW WIRES FROM BOARD TO THE TRANSFORMER

CUT AND SPLICE RED AND BLACK WIRES AND GRAY CABLE HERE

BACK PANEL

CONTROL BOARD

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Figure 2

CONNECT TO DRAWER
WIRES COLOR TO COLOR
USING THE PIGTAIL
CONNECTORS PROVIDED

IF THE BOARD YOUR ARE REPLACING
DOES NOT HAVE THIS, CUT, STRIP
AND CONNECT TOGETHER USING
THE PIGTAIL CONNECTORS SUPPLIED

SAFETY SWITCH CIRCUIT

BLACK 22 GA.
GREEN 22 GA.
RED 22 GA.
WHITE 22 GA.

BLACK 16 GA.
RED 16 GA.

REPLACEMENT LINEAR
TD CONTROL BOARD

RED
RED

TO TRANSFORMER

TO TRANSFORMER

W7
W6
W5
W3

W8
W9
J4
AUX. PWR
AUX. J3
GND
D1
W1
PS1
D2
W2
D3
D4

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