

A: Removing Standard Warmer Cabinet Header (p/n: DWC24-TL)

The Standard Warmer Header for a DWC24-TL Dual Warmer Cabinet can be easily replaced with a DWC24-TD-D Warmer Cabinet Header with a Data Logger option.

1. Disconnect all electrical power to the Warming Cabinet by removing the power cord from the electrical supply. If the unit is hard-wired to facility power, turn **OFF** the circuit breaker.



CAUTION: Failure to remove the power cord from the electrical supply can result in severe electrical shock and even death to personnel as well as severe damage to the equipment.

2. The Outside and Inside Top Panels must be removed first. See Figure 1.
3. Remove four 8 X 1-5/8" self-tapping screws from Outside Top Panel. Remove Outside Top Panel and set aside. See Figure 1.

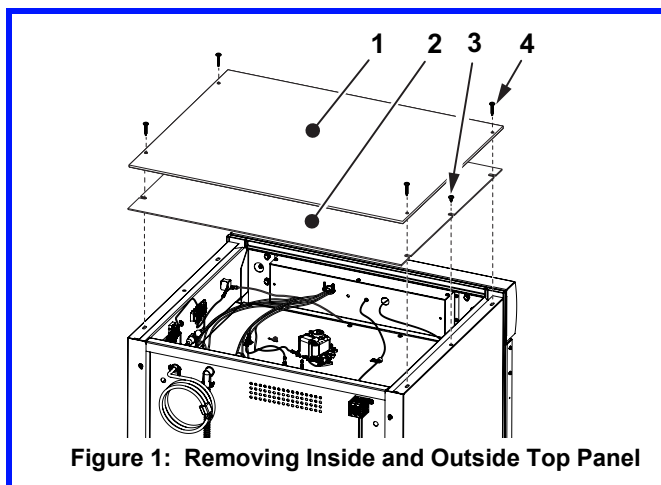


Figure 1: Removing Inside and Outside Top Panel

REF	P/N	DESCRIPTION	QTY
1	SMW0027	Outside Top Panel	1
2	SMW0028	Inside Top Panel	1
3	H0012-01	Screw, Self-Tapping, 8 X 1/2"	2
4	H0012-02	Screw, Self-Tapping, 8 X 1-5/8"	4

4. Remove two 8 X 1/2" self-tapping screws from Inside Top Panel. Remove Inside Top Panel and set aside. See Figure 1.

The Standard Warmer Header for a DWC24-TL Dual Warmer Cabinet can be removed from a standard dual warming cabinet without removing the Upper Drawer Assembly (p/n: W0288).

1. There is no specific order in removing all wiring to the Header, just specific steps that allows the wiring to pass safely through the electrical box.
2. Loosen two screws on the 3/8" straight-through electrical connector mounted on the back side of the Warmer Cabinet Electrical Box (just behind the Header). See Figure 2.

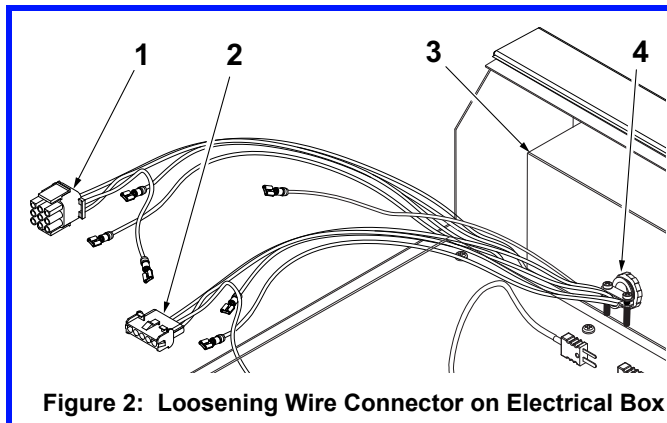


Figure 2: Loosening Wire Connector on Electrical Box

REF	P/N	DESCRIPTION	QTY
1	W0199	Connector, 9 Circuit Plug	1
2	W0198	Connector, 5 Circuit Plug	1
3	SMW0032	Cover, Electrical Box	1
4	W0140	Connector, 3/8" Straight	1

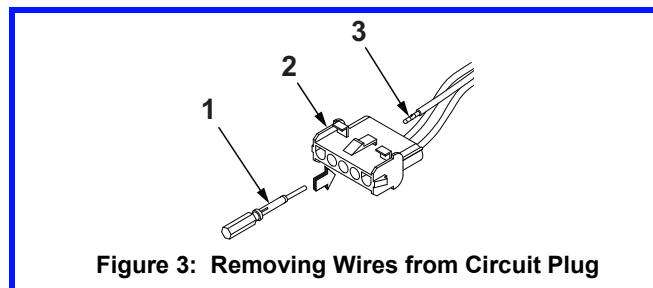


Figure 3: Removing Wires from Circuit Plug

REF	P/N	DESCRIPTION	QTY
1	16AWG	Tool, Pin Extraction	1
2	W0198	Connector, 5 Circuit Plug	1
3	16AWG	Wire, Crimped Terminal End	1

3. Use a Pin Extraction Tool (for 16AWG wire) to remove the wire leads from the 9-5-Connector Circuit Plugs. See Figure 3.

CAUTION: Use **ONLY** a Pin Extraction Tool designed for the specific wire size



used. **DO NOT** attempt to push the wire terminal out of the connector with a small Phillips screwdriver or similar tool. This method will damage both the connector and wire resulting in replacement.

- There are two molded connectors used. A 9-pin is used for the Lower Warmer connection and a 5-pin is used for the Upper Warmer connection. It is recommended that before disconnecting the wires, each set should be taped together and marked to prevent placing the wrong wire in a connector. See Figure 4.

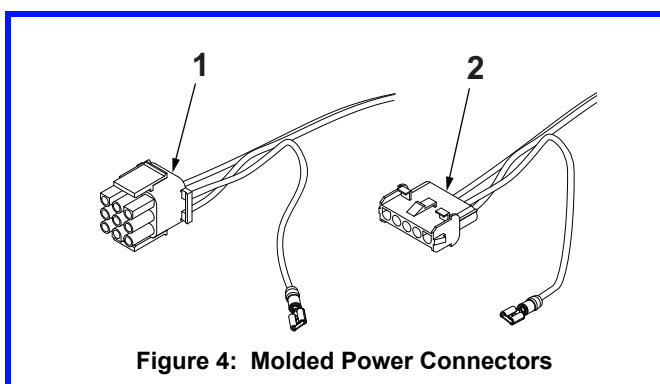


Figure 4: Molded Power Connectors

REF	P/N	DESCRIPTION	QTY
1	W0199	Connector, 9 Circuit Plug	1
2	W0198	Connector, 5 Circuit Plug	1

- There are two (an upper and lower) Thermocouple connections that feeds data to the header from the upper and lower warmer units. These Thermocouple connectors are located in the upper drawer of the Warming Cabinet.
- When exchanging the header, each Thermocouple connector must be disconnected. See Figure 5, Items 1 through 2. Item 1 (p/n: W0037) is a male connection and does not go through the Header and does not need to be taken apart. Item number 2, is a female receptacle, (p/n: W0038) and must have the wires removed before the header can be removed.
- Remove the two screws on one female receptacle and one male receptacle and lift off the cover. See Figure 5, Items 2 and 3. Place the screws and cover in an area where they will not be misplaced. Loosen the two screws on the inside and pull the two wires away from the receptacle.

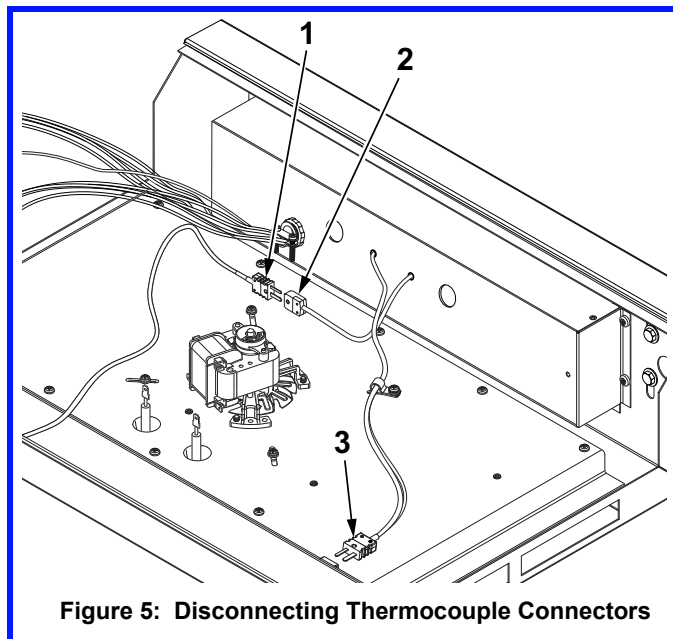


Figure 5: Disconnecting Thermocouple Connectors

REF	P/N	DESCRIPTION	QTY
1	W0037	Connector, Male, Upper Chamber	2
2	W0038	Connector, Female, Upper Chamber	1
3	W0037	Connector, Male Lower Chamber	1

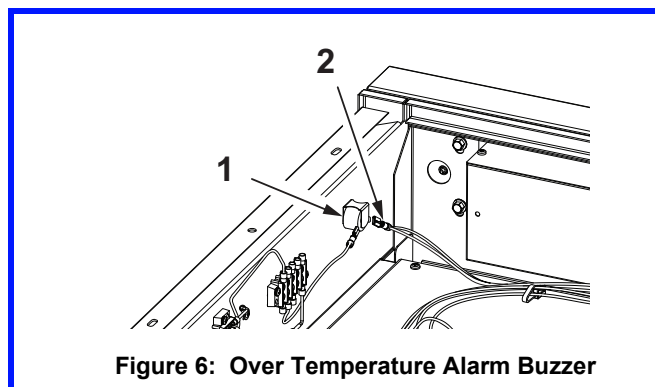


Figure 6: Over Temperature Alarm Buzzer

REF	P/N	DESCRIPTION	QTY
1	W0013	Buzzer, Over Temperature Alarm	1
2	W0118	Terminal, Over Temperature Alarm	1

- The only remaining wires to disconnect are the lead to the Over Temperature Alarm Buzzer and the power leads to the 5-Position Terminal block on the cabinet side wall. See Figure 7.
- The Over Temperature Alarm Buzzer lead pulls directly off the buzzer and out through the Electrical Box behind the Header. The connector will consist of two wires in the



INSTALLATION INSTRUCTIONS: Replacing a Standard Warmer Header (DWC24-TL) with a Data Log Header (DWC24-TL-D)

Warmer Unit is a dual cabinet and a single wire if the Warmer Unit is a single cabinet.

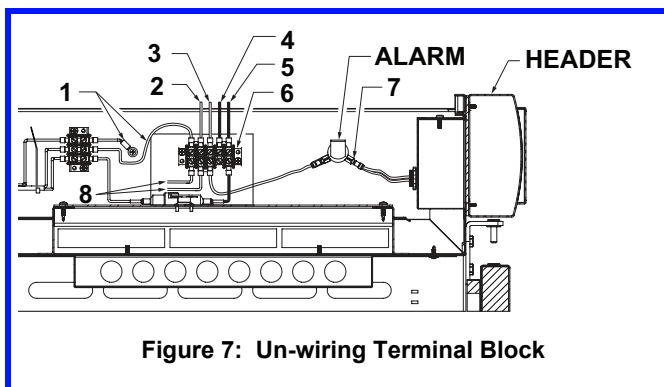


Figure 7: Un-wiring Terminal Block

REF	DESCRIPTION	QTY
1	Power Cable Ground Wires (W)	1
2	To Lower Chamber Control Board (W)	1
3	To Upper Chamber Control Board (W)	1
4	To Lower Chamber Control Board (B)	1
5	To Upper Chamber Control Board (B)	1
6	W0006 5-Position terminal Block	1
7	Alarm Hookup (2 wires if Dual Chamber) (Orange)	1
8	To Upper and Lower Coils (W)	2

10. Remove the four 1/4"-20X1/2" serrated flange head bolts and remove the existing Header from the Warming Cabinet.

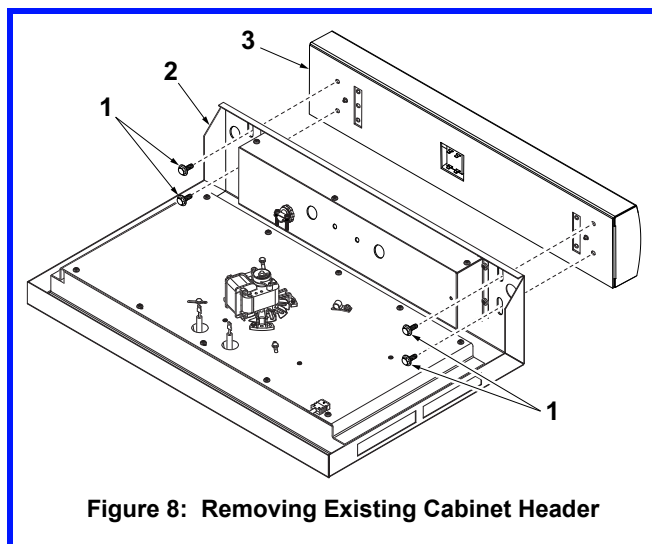


Figure 8: Removing Existing Cabinet Header

REF	P/N	DESCRIPTION	QTY
1	H0016-10	Bolt, Serrated Flange Head, 1/4"-20-1/2"	4
2	W0288	Upper Drawer Assembly	1

REF	P/N	DESCRIPTION	QTY
3	DWC24-TL	Header Assembly without USB Data Log	1

11. Carefully pull the Header away from the Warming Cabinet while making sure none of the existing wiring gets caught on the cabinet structure. See Figure 8.

B: Installing USB Data Log Header (p/n: DWC24-TL-D) on Existing Warming Cabinet

1. Feed wiring from new USB Header through openings in cabinet electrical box attached to the Upper Tray. Replace the four 1/4"-20X1/2" serrated flange head bolts and remove the existing Header from the Warming Cabinet. See Figure 8.
2. Connect lower lead for the Over Temperature Alarm Buzzer (See Figure 7, Item 7) if unit is a dual cabinet warmer model. Connect the wire/s to the Buzzer. See Figure 6.
3. Insert the barbed connector wires (one black and one white) into the Lower Cabinet 9-Position Molded Plug (See Figure 9, Item 1). Reconnect the two halves of the plug. Make sure the wire colors match once the plug is reconnected.

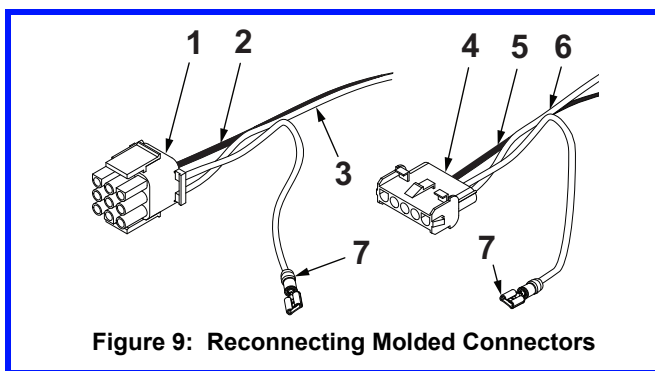


Figure 9: Reconnecting Molded Connectors

REF	P/N	DESCRIPTION	QTY
1	W0199	Lower Molded Connector	1
2		Lower Chamber Power Wire (Black)	1
3		Lower Chamber Common Wire (White)	1
4	W0198	Upper Molded Connector	1
5		Upper Chamber Power Wire (Black)	1
6		Upper Chamber Common Wire (White)	1
7		Ground Connections	2

4. Insert the barbed connector wires (one black and one red) into the Upper Cabinet Connector

(p/n: W0198) and Lower Cabinet Connector (p/n: W0199) (See Figure 9, Items 1 and 4). Reconnect the two halves of each plug making sure the wire colors match on both sides.

5. Wrap the two leads around the posts inside the thermocouple receptacle and replace the cover. Install the two screws holding the cover together.
6. Connect both the male and female thermocouple connectors (See Figure 10, Items 1 and 2) for the upper chamber.
7. Connect the male thermocouple to the stationary connector on the back side of the drawer for the lower chamber. See Figure 10, Item 3.

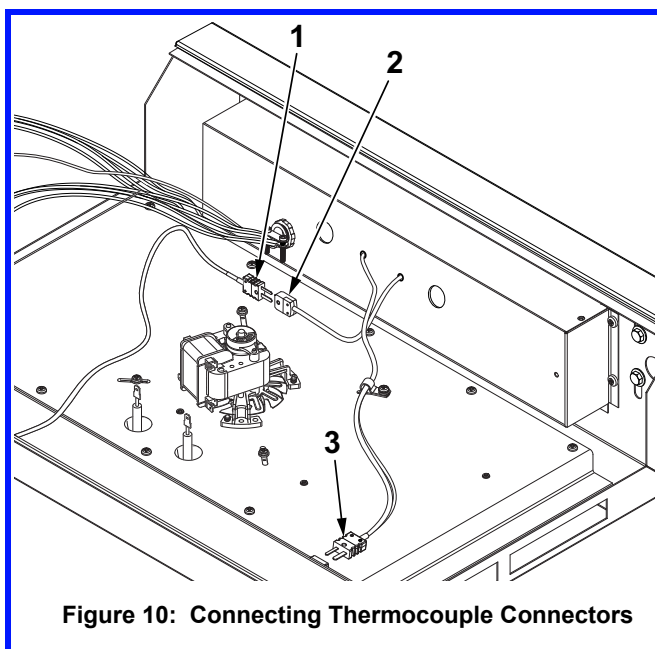


Figure 10: Connecting Thermocouple Connectors

REF	P/N	DESCRIPTION	QTY
1	W0037	Connector, Male Thermocouple	2
2	W0038	Connector, Female Thermocouple	2

9. Connect the remaining leads from the two power bundles (to the W0198 and W0199 connectors) from the Electrical Box located behind the Header. See Figure 11.
10. Once the wires from the two bundles are connected, separate the wires into two groups. One group goes to the Upper Cabinet and the other group goes to the Lower Cabinet. Use a cable tie to secure and separate each of the two bundles.

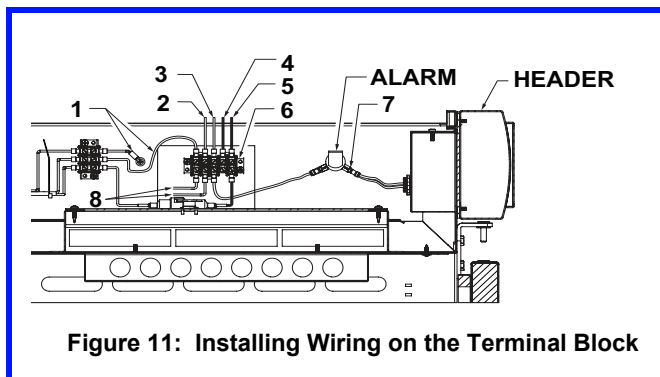


Figure 11: Installing Wiring on the Terminal Block

REF	DESCRIPTION	QTY
1	Power Cable Ground Wires (W)	1
2	To Lower Chamber Control Board (W)	1
3	To Upper Chamber Control Board (W)	1
4	To Lower Chamber Control Board (B)	1
5	To Upper Chamber Control Board (B)	1
6	W0006 5-Position terminal Block	1
7	Alarm Hookup (2 wires if Dual Chamber) (Orange)	1
8	To Upper and Lower Coils (W)	2

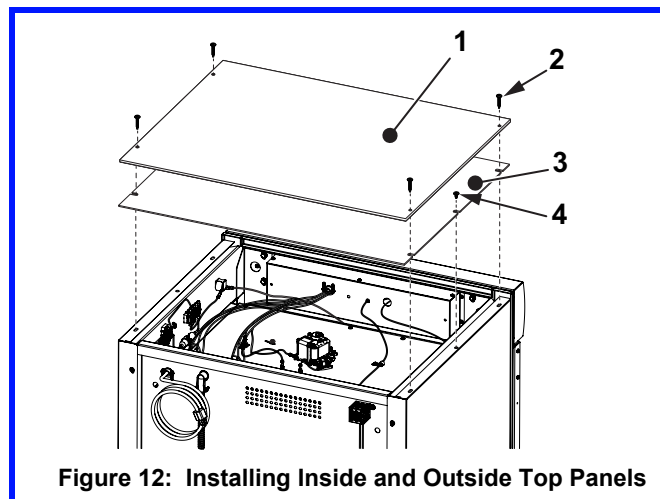


Figure 12: Installing Inside and Outside Top Panels

Re-install the Outside and Inside Top Covers

1. Install the Inside Top Panel using two 8 X 1/2" inch screws to the cabinet. See Figure 12, Item 4).
2. Use four 8 X 1-5/8" self-tapping screws to secure to the Outside Top Panel to the cabinet. See Figure 12, Item 2.