

Product Information

Subject Part No. F8133501 Optional External Supply Wiring Diagram
Use With UW35-150TV Pocket Hardmount Washer-Extractors



WARNING

Any interfacing to the washer-extractor external supply system should be installed in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. In Canada, this conversion/installation shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the CAN/CGA-B149.1 and CAN/CGA-B149.2 installation code. Failure to follow instructions could result in serious injury, death or property damage. The qualified agency performing this work assumes all responsibility for this kit installation.

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To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the washer-extractor before servicing.
- Never start the washer-extractor with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer-extractor is properly grounded.

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Washer-Extractor to External Chemical Supply Equipment Interface Wiring Diagram Supplement:

For proper communication between the washer-extractor and an external chemical supply system, it is important for the low-voltage signal power to be connected properly. The included wiring diagram (F8133501) shows several different options for safe and correct wiring of this interface. This supplement is intended to help the installer better understand how to correctly wire the power side of this system. Refer to the installation manual supplied with the machine for additional information.

The preferred method for connecting the wiring from the external chemical supply system to the washer-extractor is to use the 300mA power of the washer-extractor's 24VAC control transformer, which is intended strictly for this purpose. Other voltage and current options are available, but require some wiring changes and must be provided with an external power source. Under no circumstances should the high-voltage machine supply connections or source be used for the communication wiring.

Refer to the installation manual supplied with the machine for a complete explanation of the communication system. Basically, wash-cycle signals are provided to the external chemical supply equipment and a "wait for the next step" signal can be received from the supply equipment. Communication wiring connections, which include a single row of identified terminal blocks, can be found under a service panel at the upper back of the machine.

I. External Dispenser Supply Connection (Washer to Chemical Supply Equipment Signals):

1. Use the Internal 24VAC 300 Milliamp Control Transformer (Recommended by Alliance Laundry Systems)

There are 3 terminals necessary for this connection option. Terminal "24VAC COM" is used to connect 1 side of the internal control transformer to the external dispenser input signals common. The second terminal is used to connect the other side of the control transformer to the washer-extractor output signals common through a red jumper wire between "24VAC" and "RELAY COM". Do not use the transformer terminals if an external power supply is used.

2. Use an External AC Power Source (Not Provided by Alliance Laundry Systems)

NOTE: Power for external supplies must not be derived from the high-voltage main power connection point.

The external power must supply power of 240VAC or less and be protected at 3 Amps or less. Remove the red jumper wire installed by the factory between "24VAC" and "RELAY COM". Connect 1 side of the external power to the "RELAY COM" and the other to the external dispenser input signals common.

3. Use an External DC Power Source (Not Provided by Alliance Laundry Systems)

A DC pause signal may be used instead of the AC version. Care must be taken to use the correct terminals for a AC signal. The source current must be between 3mA and 30mA and the signal length must be at least 20 milliseconds long. Connect the external DC power source common to the "PAUSE A-" terminal. The other half of the signal wiring must go the "PAUSE A+" terminal and come from the output side of the pause signal relay, which is wired to the positive side of the DC source and has its common connected to the "Pause A-".

II. External Dispenser Pause Connection (Washer-Extractor Wait Signal)

Verify that the washer-extractor's "External Dispenser Pause" is turned ON in the Global "Water Mgmt." menu in the UniLinc user interface (the machine will ignore pause signals if this is not turned on). The factory installed red jumper wire is not used with the pause control but may be necessary for the washer outputs. Verify that the external dispenser system has a normally-open relay contact capable of handling the required voltage and current limits of this signal.

1. Use the Internal 24VAC 300 milliamp Control Transformer

Using an isolated relay contact from the external dispenser supply, wire 1 side of this external contact to the "24VAC" terminal block and the other side to "PAUSE B+". To complete the circuit, wire a jumper between "PAUSE B-" and "24VAC COM".

2. Use an External AC Power Source (Not Provided by Alliance Laundry Systems)

Wire 1 side of the external AC power supply rated at 120VAC/240VAC to the "PAUSE B-" terminal and the other side of the external AC power supply to the external dispenser pause relay common. Then run a wire from the output of this relay to the properly-sized and rated resistor as shown on the print. Do not connect the signal directly to the pause input. Connect the other end of the pause resistor to the "PAUSE B-" washer input.