

Section 11

Electrical System

NOTE: This section applies to applicators with M-style cordsets.

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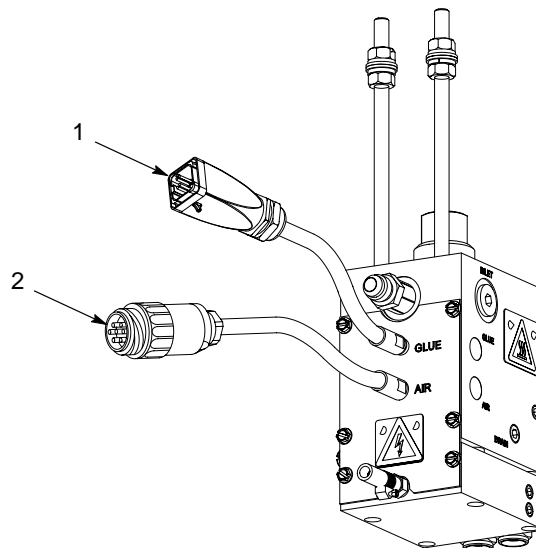
WARNING: Allow only personnel with appropriate training and experience to operate or service the equipment. The use of untrained or inexperienced personnel to operate or service the equipment can result in injury, including death, to themselves and others, and damage to the equipment.

Introduction

This section describes the electrical system on applicators with ATS/Meltex platinum resistance temperature detector (RTD)-style (hereafter referred to as M-style) cordsets. The applicator's electrical system includes the following components:

- adhesive manifold cordset(s) with heater(s) and RTD
- heated air manifold cordset(s) with heater(s) and RTD
- thermostats
- splitter and adapter cables (if used)
- extension cables

The hose also has some electrical components, including a cordset that connects it electrically to the melter and an electrical receptacle that connects it electrically to the applicator. In combination, the hose electrical connections, the applicator cordsets, and any cables used serve two purposes: (1) to supply electrical power to the heaters in the applicator adhesive and heated air manifolds and (2) to carry electrical signals from the RTDs in the adhesive and heated air manifolds to a melter control system or to a standalone temperature controller. In addition, M-style adhesive manifold cordsets have two extra wires that may be used to supply power to one or more solenoid valves.



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Figure 11-1 Applicator with M-style cordsets

1. Adhesive manifold cordset

2. Heated air manifold cordset

Overview of Electrical Operation

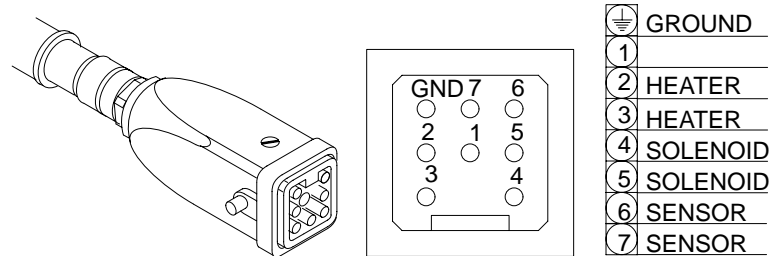
An applicator has two types of heated zone: adhesive manifold and heated air manifold. The adhesive manifold zones heat the adhesive in the applicator, and the heated air manifold zones heat the pattern air. Heating and temperature sensing of the zones is accomplished through cordsets.

Cordsets

Each heated zone has a cordset that is connected to one RTD and one or two heaters inside the applicator. Cordsets are then electrically connected, via a connector plug, to a temperature control channel on a melter control system or on a standalone temperature controller. The control system receives the RTD electrical signal and regulates the electrical power supplied to the heater(s) based on the signal. There are two types of cordset: adhesive manifold and heated air manifold. The applicator has two types of cordset: adhesive manifold and heated air manifold.

Adhesive Manifold Cordset

See Figure 11-2. The adhesive manifold cordset has a square 8-pin male connector that connects to an 8-pin female connector on a hose or an extension, splitter, or adapter cable. The adhesive manifold cordset also has two extra wires that may supply power to one or more solenoid valves.

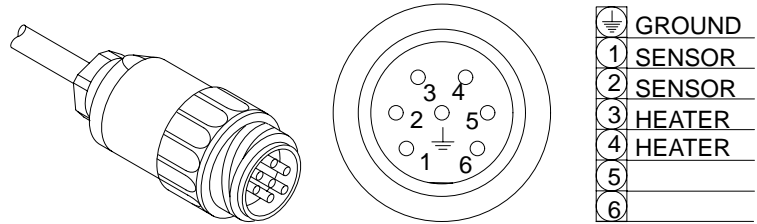


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Figure 11-2 M-style adhesive manifold cordset connector

Heated Air Manifold Cordset

See Figure 11-3. The heated air manifold cordset has a round 7-pin male connector that connects to a 7-pin female connector on an extension, splitter, or adapter cable.



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Figure 11-3 M-style heated air manifold cordset connector

Heaters and RTDs

Cordsets are wired to a replaceable cartridge heater (or heaters) housed in a bore inside each adhesive and heated air manifold zone as shown in Figure 11-10 later in this section. When power is supplied to a heater, it heats the adhesive or the pattern air in the applicator manifolds. Two heaters are present when a zone's heating requirements are higher. Typically, the heating requirements of a filtered applicator are greater than those of a non-filtered applicator and the heating requirements of heated air manifold zones are greater than the heating requirements of adhesive manifold zones.

Cordsets are also wired to a 100-ohm platinum RTD housed in a bore in each adhesive and heated air manifold zone. An RTD is an electronic temperature control device in which the electrical resistance changes predictably as its temperature changes (the higher the temperature, the higher the resistance). The RTD relays the temperature of the manifold to a melter control system or to a temperature controller, which in turn adjusts the power supplied to the manifold heaters accordingly.

NOTE: On some applicators, the RTD is an integral part of the cordset wiring (in which case no wire nut or connector is used).

Thermostats

Each adhesive manifold on the applicator has a thermostat that is connected in series with the heater(s) as shown in Figure 11-10 later in this section. Thermostats provides additional overtemperature protection. Normally, the control system maintains the temperature in a heated zone based on the resistance of the RTD. However, if the RTD fails, the thermostat acts as a backup, preventing the temperature in that heated zone from rising above its setpoint.

During normal operation, when the applicator temperature is below its setpoint, the thermostat should be closed, allowing power to reach the heaters. If the applicator does not heat properly and the applicator temperature has not been above the setpoint temperature, a thermostat may have failed.

If the applicator temperature rises above the thermostat setpoint, the thermostat has failed. The system should be shut down and the thermostat checked and replaced as necessary. The setpoint temperature for the thermostat is 260 °C (500 °F).

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Cordset Connection

Cordsets must be properly connected to hoses and/or splitter and extension cables to supply power to the applicator. This part of Section 11 provides cordset connection procedures for an installation in which adhesive manifold cordsets are connected to hose connectors and to extension and adapter cables and in which heated air manifold cordsets are connected to heated air manifold extension and splitter or adapter cables, which is the recommended configuration. If you need assistance with cordset installation, contact your Nordson representative.

NOTE: Normally, the hose, cordset, and cable configuration of your system will have already been determined by you and your Nordson representative. If you need to change the configuration, contact your Nordson representative for assistance. Splitter, adapter, and extension cable part numbers are provided in *Parts* at the end of this section.



WARNING: Risk of personal injury or death. Allow only qualified personnel to perform electrical installation, troubleshooting, or repair procedures. Before performing any electrical procedure, review Section 1, *Safety*, and disconnect and lock out electrical power to the system.

Preparing to Connect Cordsets

1. If the system is in operation, relieve system pressure. Refer to *Relieving System Pressure* in Section 10, *Filter*.
2. Disconnect and lock out electrical power to the system.

Connecting Adhesive Manifold Cordsets

Connect adhesive manifold cordsets as appropriate for your application. Refer to Table 11-1 and Figure 11-4 for a typical installation configuration

Table 11-1 Typical Adhesive Manifold Cordset Connections

Item in Figure 11-4	Component	Connect to...
1	First adhesive manifold cordset	Extension cable (item 2)
2	Extension cable	First adhesive manifold cordset (item 1) and to adapter cable (item 3)
3	Adapter cable	Extension cable (item 2) and to electrical receptacle on melter (item 6)
4	Second adhesive manifold cordset	Hose connector
5	Hose cordset	Electrical receptacle on melter (item 6)

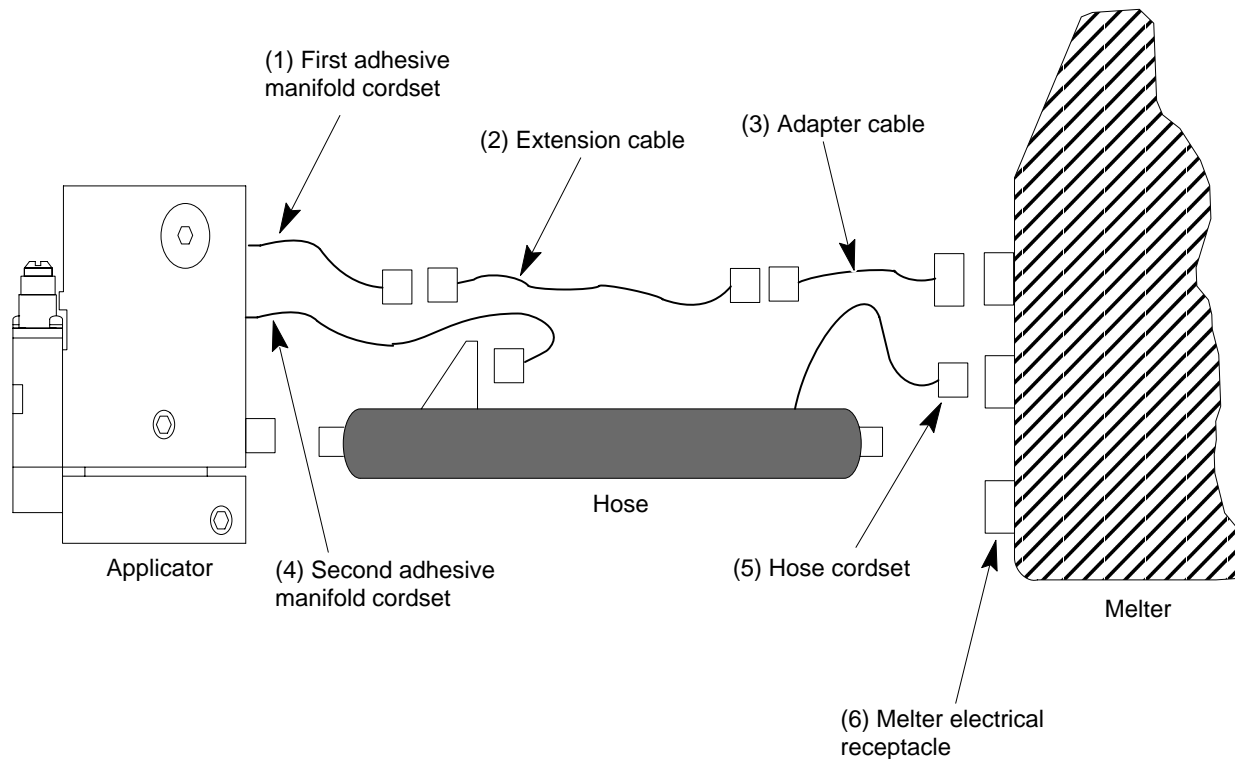


Figure 11-4 Typical adhesive manifold cordset connections

- | | | |
|------------------------------------|-------------------------------------|---------------------------------|
| 1. First adhesive manifold cordset | 3. Adapter cable | 5. Hose cordset |
| 2. Extension cable | 4. Second adhesive manifold cordset | 6. Melter electrical receptacle |

Connecting Heated Air Manifold Cordsets

Connect heated air manifold cordsets as appropriate for your application. Refer to Table 11-2 and Figure 11-5 for a typical installation configuration.

Table 11-2 Typical Heated Air Manifold Cordset Connections

Item in Figure 11-5	Component	Connect to...
1	One air manifold cordset	Extension cable (item 2)
2	Extension cable	One air manifold cordset (item 1) and adapter cable (item 3)
3	Adapter cable	Extension cable (item 2) and electrical receptacle on melter (item 7)
4	Two air manifold cordsets	Extension cables (item 5)
5	Extension cables	Two air manifold cordsets (item 4) and splitter cable (item 6)
6	Splitter cable	Extension cables (item 5) and electrical receptacle on melter (item 7)

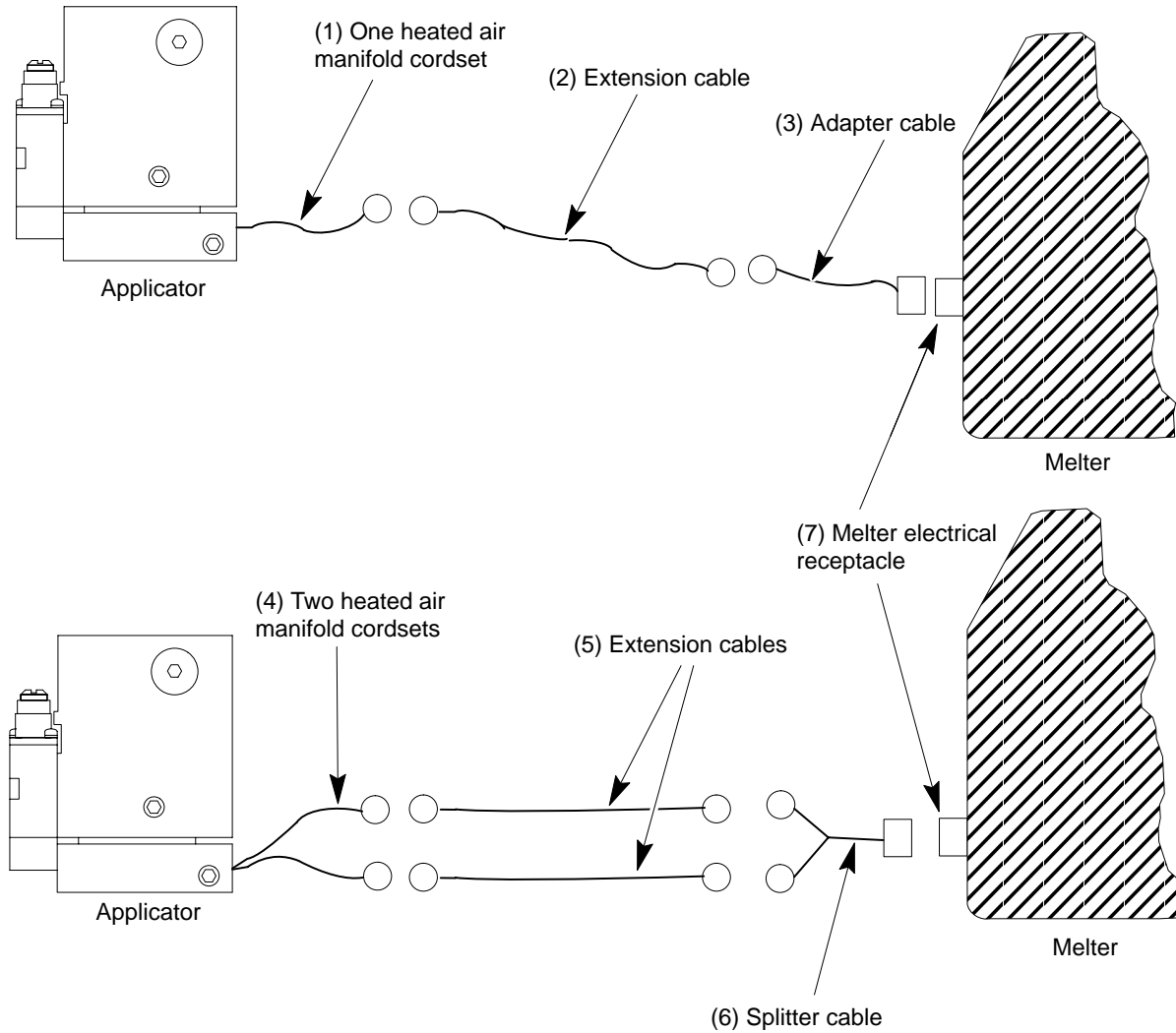


Figure 11-5 Typical heated air manifold cordset connections

- | | | |
|------------------------------------|-------------------------------------|---------------------------------|
| 1. One heated air manifold cordset | 4. Two heated air manifold cordsets | 6. Splitter cable |
| 2. Extension cable | 5. Extension cables | 7. Melter electrical receptacle |
| 3. Adapter cable | | |

Restoring the System to Normal Operation

Perform whichever of the following steps is appropriate for your installation:

- If the cordsets were connected as part of the initial installation of the applicator, return to the applicator installation procedures in Section 3, *Installation*, to complete the installation.
- If the cordsets were connected as part of another procedure, return to that procedure.
- If applicable, restore the system to normal operation. Refer to *Starting the Applicator* in Section 4, *Operation*, as needed.

Disconnecting Cordsets

Before disconnecting any cordset, relieve system pressure and disconnect and lock out electrical power to the system. Refer to *Relieving System Pressure* in Section 10, *Filter*, as needed.

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Cordset Service

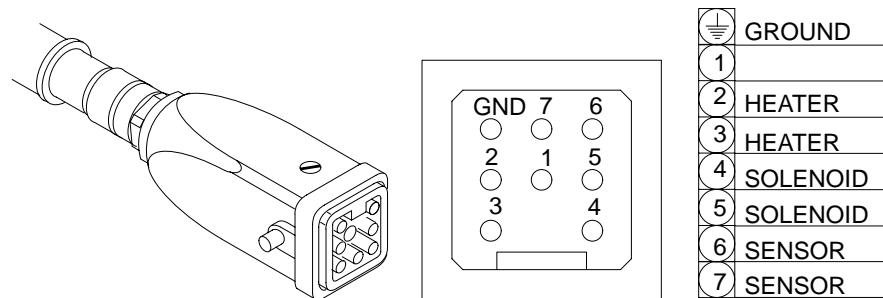
This part of Section 11 provides cordset-related service procedures.



WARNING: Risk of personal injury or death. Allow only qualified personnel to perform electrical installation, troubleshooting, or repair procedures. Before performing any electrical procedure, review Section 1, *Safety*, and disconnect and lock out electrical power to the system.

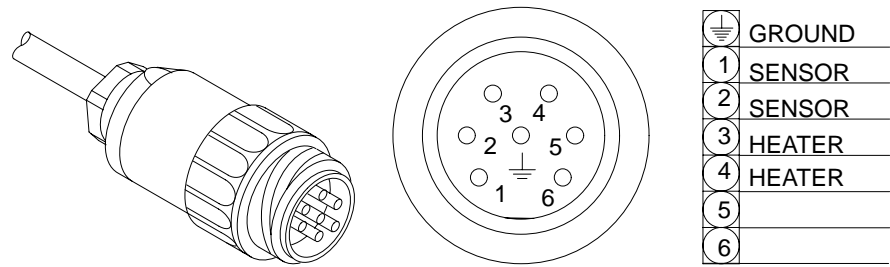
Checking a Heater

1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 10, *Filter*.
2. Disconnect and lock out electrical power to the system.
3. Disconnect the cordset that supplies power to the heater to be checked.
4. See Figure 11-6 or 11-7 as appropriate. Use an ohmmeter to check the heater resistance and continuity at the heater pins on the cordset:
 - If you measure low resistance, the heaters are operating normally. Return to the procedure that referenced this check.
 - If you measure high resistance or if an open circuit is indicated, there may be a broken wire, a loose connection, or a defective heater. Continue to the next step.



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Figure 11-6 M-style adhesive manifold cordset connector



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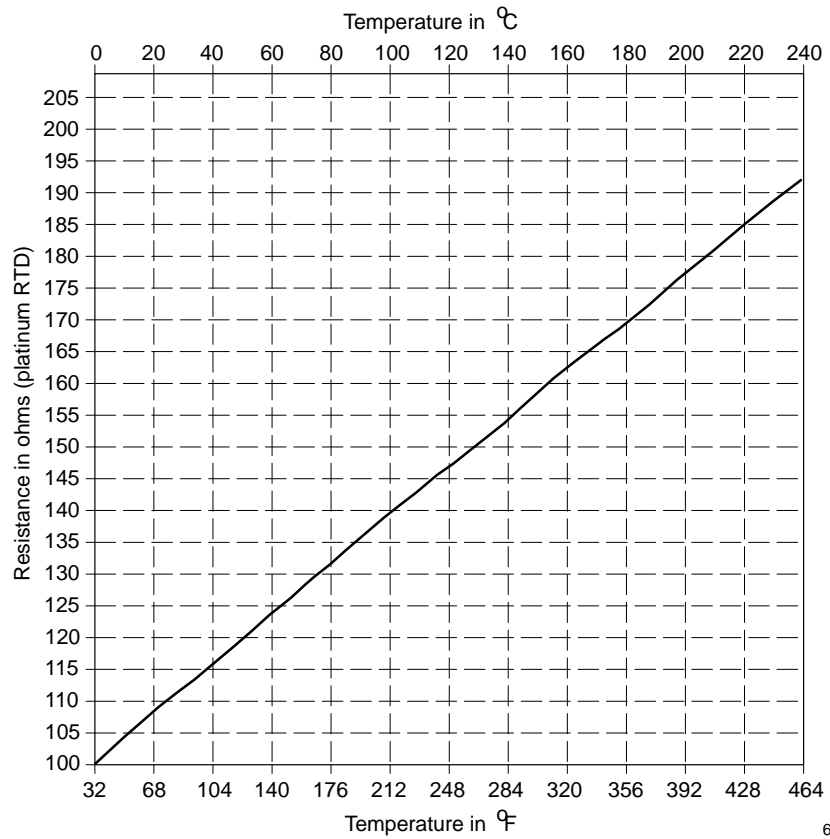
Figure 11-7 M-style heated air manifold cordset connector

5. Remove the appropriate manifold cover and inspect the heater wiring. Make sure there are no broken wires or loose connections and that the heaters are wired correctly. Refer to the cordset wiring diagrams provided in the *Applicator-Specific Reference Drawings* part of Section 8, *Parts*, as needed:
 - If any wiring problems are found, correct the problems and restore the system to normal operation.
 - If no wiring problems are found, the heater is probably defective. Replace the heater. Refer to *Replacing a Heater* later in this section.

Checking an RTD

NOTE: You will need to know the temperature of the RTD to properly perform this check.

1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 10, *Filter*.
2. Disconnect and lock out electrical power to the system.
3. Disconnect the cordset that supplies power to the RTD to be checked.
4. See Figure 11-6 or 11-7 as appropriate. With the RTD at a known temperature, use an ohmmeter to measure the RTD resistance at the RTD pins on the cordset.
5. See Figure 11-8 to determine the correct resistance of the RTD based on its temperature:
 - If the measured resistance is correct, the RTD is operating properly. Return to the procedure that referenced this check.
 - If the measured resistance indicates an open circuit, continue to the next step.
6. Remove the appropriate manifold cover and check for loose RTD wires or wire connections. Tighten any loose connections.
7. Check the RTD resistance again. If the resistance is normal, the RTD is now operating properly. If it is not, continue to the next step.
8. Disconnect the RTD wires, measure the resistance across them, and compare the results to Figure 11-8:
 - If the measured resistance is within the appropriate range, reconnect the RTD wires, reinstall the manifold cover, and return to the procedure that referenced this check.
 - If the measured resistance is not within the appropriate range, replace the RTD. Refer to *Replacing an RTD* later in this section.



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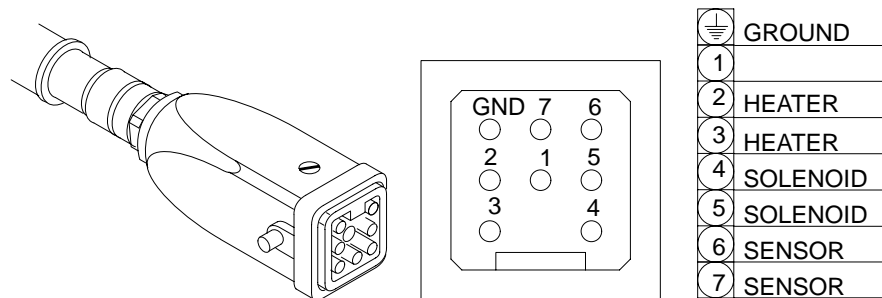
Figure 11-8 RTD resistance vs. RTD temperature

Checking a Thermostat

NOTE: Thermostats fail in the open position.

1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 5, *Maintenance*.
2. Disconnect and lock out electrical power to the system.
3. Disconnect the cordset that supplies power to the thermostat to be checked.
4. See Figure 11-9. With the applicator at or below the adhesive application temperature, use an ohmmeter to measure the resistance between pins 2 and 3 on the adhesive manifold cordset:
 - If the measured resistance does not indicate an open circuit, the thermostat is operating properly at the normal operating temperature. Return to the procedure that referenced this check.
 - If the measured resistance indicates an open circuit, the thermostat may have failed. Proceed to the next step.

NOTE: When the applicator is at or below the adhesive application temperature, the thermostat should be closed.



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Figure 11-9 M-style adhesive manifold cordset connector

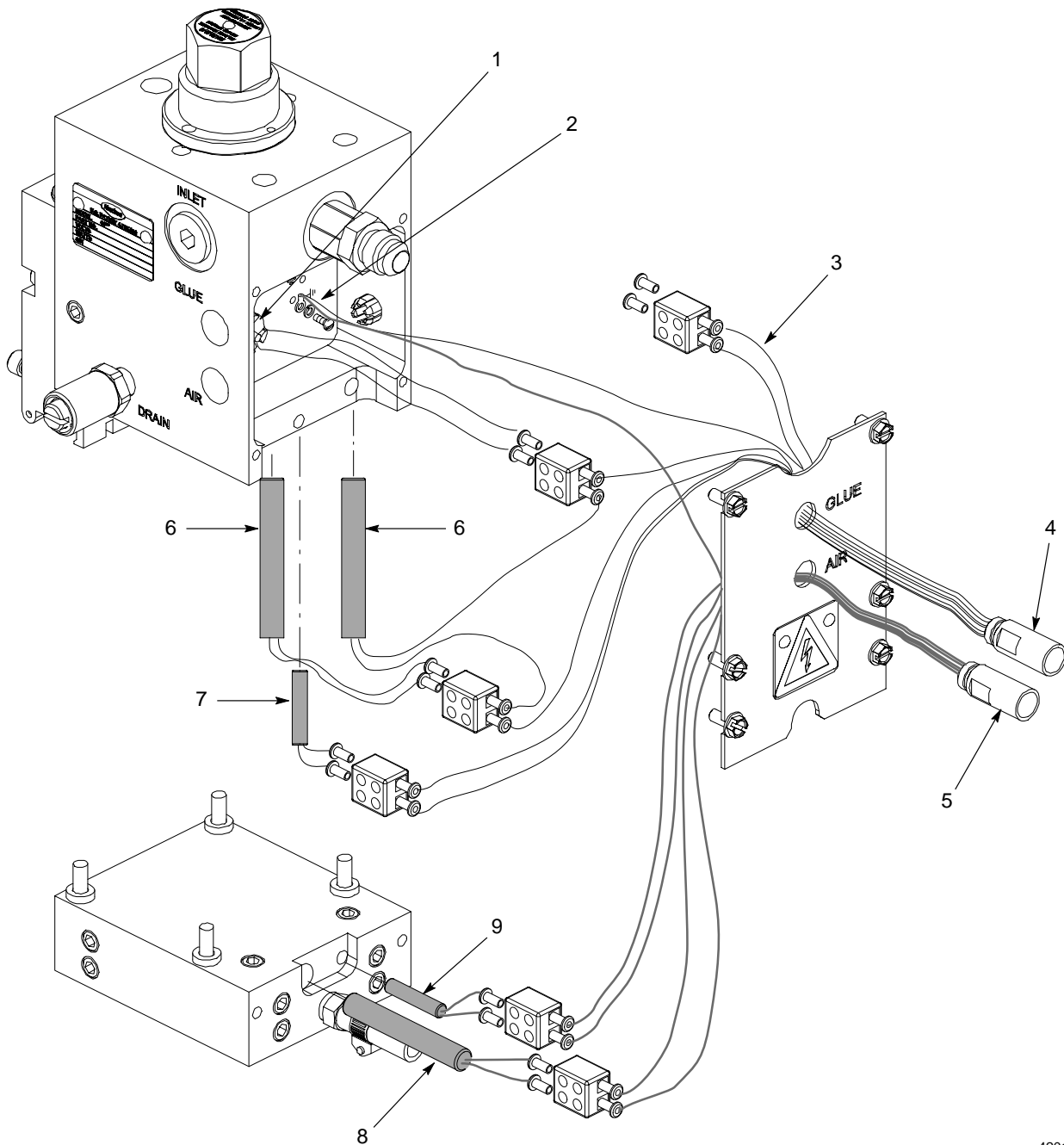
5. Remove the adhesive manifold cover and locate the wiring for the thermostat and the heater. Inspect the wiring and wire nuts for loose connections or damage. If loose or damaged connections are found or if damaged wiring is found, tighten the connections or repair the damage.

6. Use an ohmmeter to check the continuity of the thermostat circuit by placing the ohmmeter probes on the thermostat wiring connectors:
 - If the measured resistance indicates a short circuit, the thermostat is operating properly. Reinstall the manifold cover, reconnect the cordset, and return to the procedure that referenced this check.
 - If the measured resistance indicates an open circuit, the thermostat is open. Proceed to the next step.
7. Attempt to reset the thermostat by pressing the reset button on the thermostat.
8. Check the resistance again:
 - If the measured resistance indicates a short circuit, the thermostat is operating properly. Reinstall the manifold cover, reconnect the cordset, and return to the procedure that referenced this check.
 - If the measured resistance indicates an open circuit, the thermostat has failed. Replace the thermostat. Refer to *Replacing a Thermostat* later in this section.

Replacing a Heater

You will need the following items:

- appropriate tools
 - small rod for loosening the heater (if needed)
 - replacement heater
 - replacement wire nuts or terminal blocks (if needed)
 - heater lubricant
1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 10, *Filter*.
 2. Disconnect and lock out electrical power to the system.
 3. Disconnect the cordset that supplies power to the heater to be replaced.
 4. Remove the appropriate manifold cover. Refer to the applicator reference drawing provided in the *Applicator-Specific Reference Drawings* part of Section 8, *Parts*, as needed.
 5. Disconnect the heater wires from the cordset wires.
 6. See Figure 11-10. Remove the heater from the manifold.
NOTE: If the heater does not easily slide out of its bore, locate the small access hole at the back of the heater. Insert a small rod in the access hole and gently push or tap on the rod to loosen the heater.
 7. Coat a new heater with heater lubricant and insert the heater into the bore in the manifold.
 8. Connect the new heater wires to the cordset heater wires. Refer to the cordset wiring diagrams provided in *Applicator-Specific Reference Drawings* in Section 8, *Parts*, as needed.
NOTE: The heater wires are not polarity-sensitive. Either heater wire can be connected to either cordset wire.
 9. Reinstall the manifold cover, reconnect the cordset, and restore the system to normal operation.



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Figure 11-10 Typical configuration of heaters and RTD (applicator with vertical filter and two heaters shown)

- | | | |
|--|--------------------------------|---------------------------------|
| 1. Thermostat connection | 4. Adhesive manifold cordset | 8. Heater (heated air manifold) |
| 2. Ground connection | 5. Heated air manifold cordset | 9. RTD (heated air manifold) |
| 3. Solenoid wires (refer to solenoid valve wiring diagram if applicable) | 6. Heater (adhesive manifold) | |
| | 7. RTD (adhesive manifold) | |

Replacing an RTD

You will need the following items:

- appropriate tools
 - small rod for loosening the RTD (if needed)
 - replacement RTD
 - wire nuts or terminal blocks (if needed)
 - heat-sink compound (if desired)
1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 10, *Filter*.
 2. Disconnect and lock out electrical power to the system.
 3. Disconnect the cordset that supplies power to the RTD to be replaced.
 4. Remove the appropriate manifold cover. Refer to the applicator reference drawing provided in the *Applicator-Specific Reference Drawings* part of Section 8, *Parts*, as needed.
 5. Disconnect the RTD wires from the cordset wires.

NOTE: On some applicators the RTD is an integral part of the cordset (there are no wire nuts or terminal blocks). If this is the case, cut the wires to remove the defective RTD. You will need wire nuts or terminal blocks to connect the new RTD wires to the cordset wires.

6. See Figure 11-10. Remove the RTD from its bore in the manifold.

NOTE: During assembly of the applicator, Nordson applies a heat-sink compound to the RTD to improve its heat-sensing ability. After a period of time, this compound hardens and can cause the RTD to stick in the bore. If the RTD is stuck, use one of the following methods to remove it:

- If the applicator has an access hole in the manifold body directly behind the RTD, insert a rod into the access hole and gently push or tap the RTD to loosen it.
- If the applicator does not have an access hole, loosen the RTD by placing a small punch against the center of the RTD and carefully tapping on the punch with a hammer to loosen the seal between the RTD and the manifold body.

7. Insert the new RTD into the bore in the manifold.

NOTE: Applying a heat sink compound to the RTD improves its heat-sensing ability.

8. Connect the new RTD wires to the cordset RTD wires. Refer to the wiring diagrams provided in *Applicator-Specific Reference Drawings* in Section 8, *Parts*, as appropriate.

NOTE: The RTD wires are not polarity-sensitive. Either RTD wire can be connected to either cordset wire.

9. Reinstall the manifold cover, reconnect the cordset, and restore the system to normal operation.

Replacing a Thermostat

You will need the following items:

- appropriate tools
 - replacement thermostat
 - replacement wire nuts or terminal blocks (if needed)
1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 5, *Maintenance*.
 2. Disconnect and lock out electrical power to the system.
 3. Remove the adhesive manifold cover and locate the thermostat and heater wiring. Refer to the applicator reference drawing provided in *Applicator-Specific Reference Drawings* in Section 8, *Parts*, as needed.
 4. Loosen the wire nuts that connect the wiring to the thermostat, remove the thermostat screws, and remove the thermostat from the manifold.
 5. Place the new thermostat in the mount, secure it with the thermostat screws, and connect the thermostat wiring to the cordset and heater wiring with the wire nuts. Refer to the adhesive manifold cordset wiring diagram in *Applicator-Specific Reference Drawings* in Section 8, *Parts*.
 6. Reinstall the adhesive manifold cover, reconnect the cordset, and restore the system to normal operation.

Resetting a Thermostat

When an adhesive manifold thermostat opens because of an overtemperature condition, it must be manually reset before the applicator can be restored to normal operation.

1. Relieve system pressure. Refer to *Relieving System Pressure* in Section 5, *Maintenance*.
2. Disconnect and lock out electrical power to the system.
3. Remove the appropriate adhesive manifold cover. Refer to the applicator reference drawing provided in *Applicator-Specific Reference Drawings* in Section 8, *Parts*, as needed.
4. See Figure 11-11. Press the reset button on the thermostat.
5. Reinstall the manifold cover and restore the system to normal operation.
6. If the thermostat still does not operate properly, go to *Checking a Thermostat* earlier in this section.

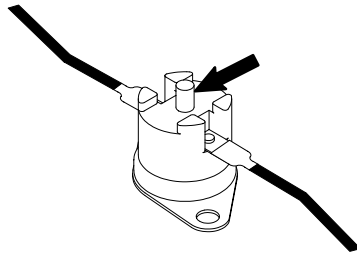
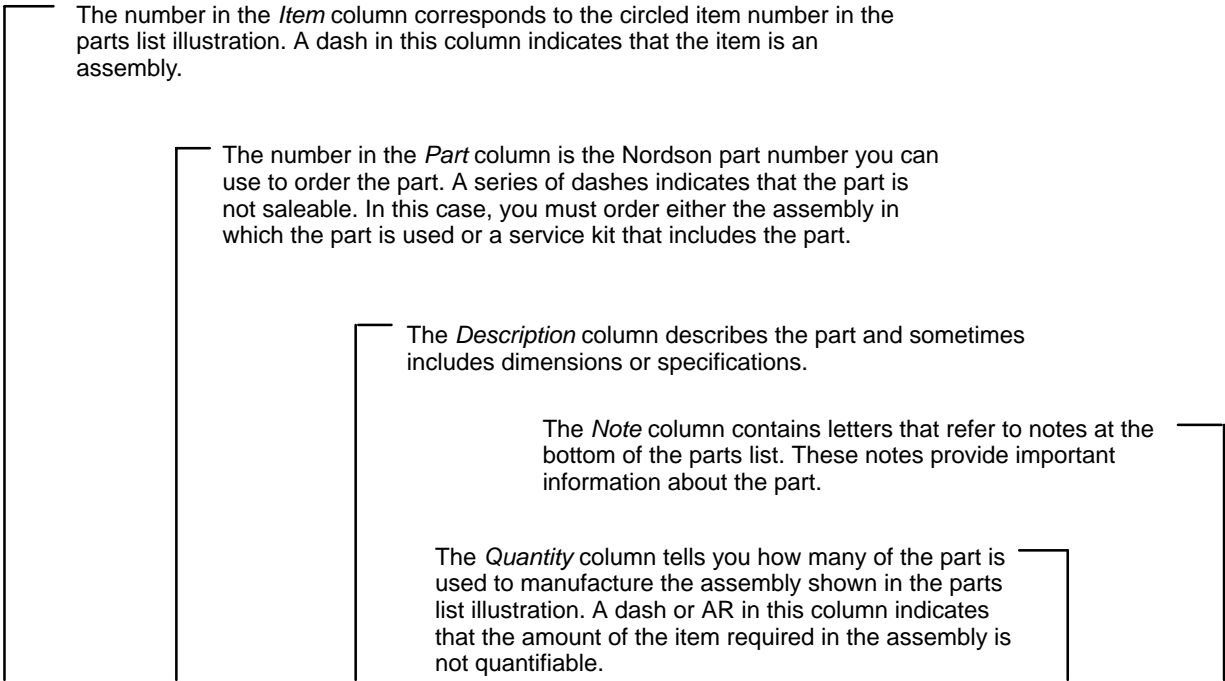


Figure 11-11 Location of the reset button on a thermostat

Parts

This part of Section 11 provides detailed parts lists for the electrical system. For other applicator parts, including a reference drawing and bill of materials specific to your applicator, refer to Section 8, *Parts*. The following chart provides guidance for reading the parts lists.



Item	Part	Description	Quantity	Note
—	0000000	Assembly A	—	
1	000000	• Part of assembly A	2	A
2	-----	•• Part of item 1	1	
3	0000000	••• Part of item 2	AR	
NS	000000	•••• Part of item 3	2	
NOTE A: Important information about item 1				
AR: As Required				
NS: Not Shown				

Adhesive Manifold Cordset

See Figure 11-12.

Part	Description	Note
162256	Cordset, adhesive manifold, M-style, 100 ohm platinum RTD, 7-wire	

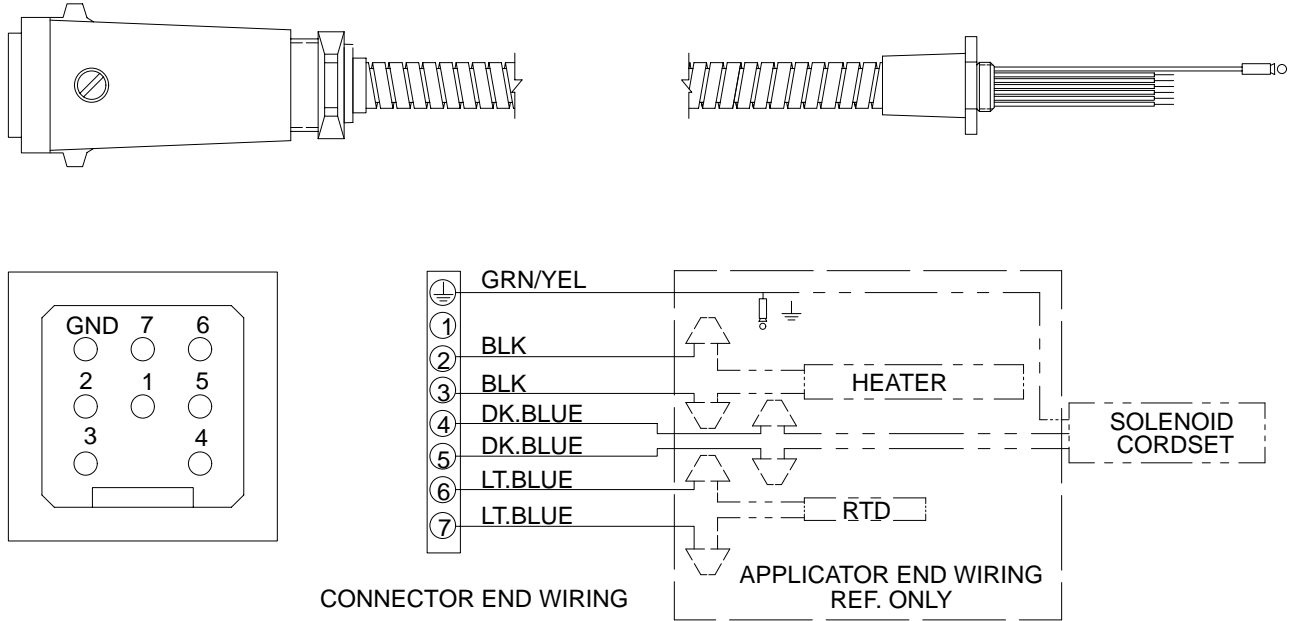


Figure 11-12 M-style adhesive manifold cordset

Heated Air Manifold Cordset

See Figure 11-13.

Part	Description	Note
152105	Cordset, heated air manifold, M-style, 100 ohm platinum RTD, 5-wire	

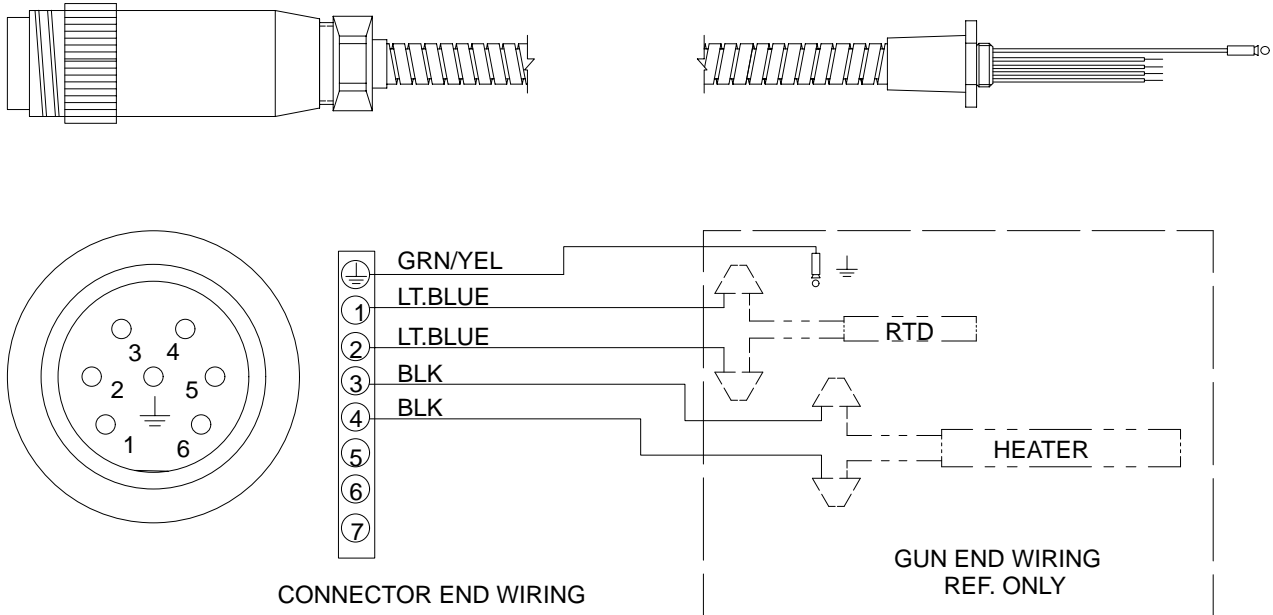


Figure 11-13 M-style heated air manifold cordset

Splitter and Adapter Cables

See Figure 11-14. These splitter and adapter cables can be used to connect the cordsets on hoses and applicators to the electrical receptacles on the melter. In most cases, extension cables will be needed.

Item	Part	Description	Quantity	Note
1	291218	Splitter cable, M-style, 2 heated air manifold cordsets, 0.3 m	AR	
2	291215	Splitter cable, M-style, 1 adhesive manifold cordset and 1 heated air manifold cordset, 0.3 m	AR	
3	291217	Splitter cable, M-style, 2 adhesive manifold cordsets, 0.3 m	AR	
4	291223	Adapter cable, M-style, 1 heated air manifold cordset, 0.3 m	AR	
5	291216	Adapter cable, M-style, 1 adhesive manifold cordset, 0.3 m	AR	
6	413913	Splitter cable, M-style, 2 hose cordsets, 0.3 m	AR	

AR: As Required

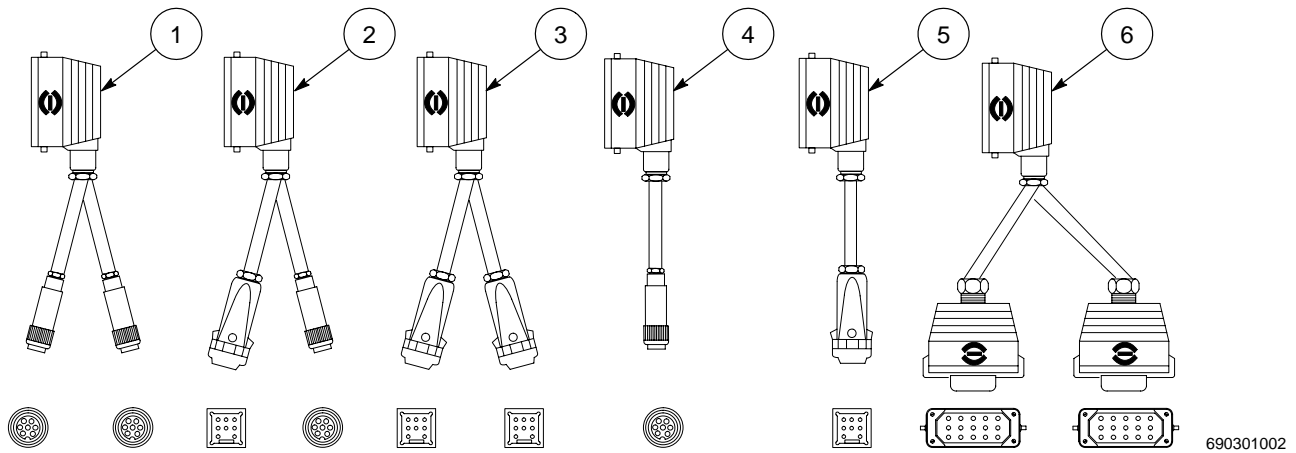


Figure 11-14 M-style splitter and adapter cables

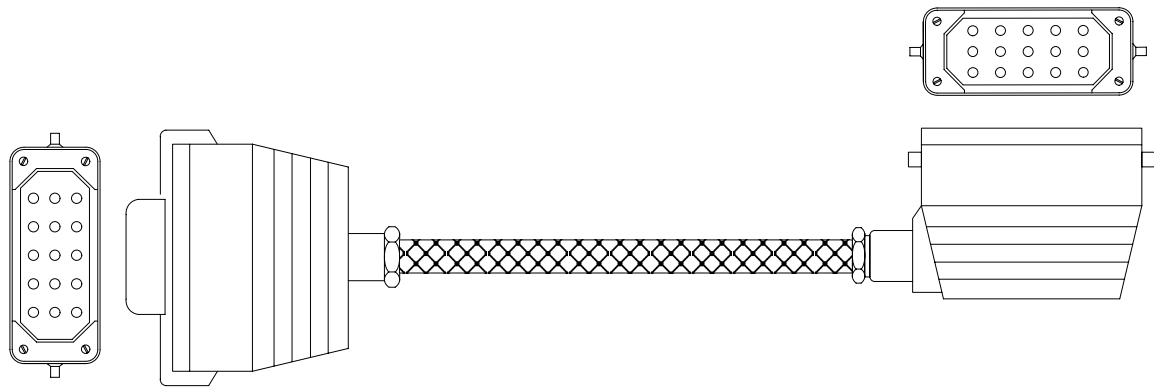
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Extension Cables

See Figures 11-15, 11-16, and 11-17. These extension cables can be used to connect adapter and splitter cables and/or hose and applicator cordsets to the electrical receptacles on the melter.

Part	Description	Note
262 184	Extension cable, M-style, hose cordsets, 4 m (13.1 ft)	
267 055	Extension cable, M-style, hose cordsets, 8 m (26.2 ft)	
292 213	Extension cable, M-style, hose cordsets, 10 m (32.8 ft)	
292 212	Extension cable, M-style, hose cordsets, 12 m (39.4 ft)	
291 517	Extension cable, M-style, hose cordsets, 15 m (49.2 ft)	
265 217	Extension cable, M-style, adhesive manifold cordsets, 5 m (16.4 ft)	
261 411	Extension cable, M-style, adhesive manifold cordsets, 7 m (23.0 ft)	
268 242	Extension cable, M-style, adhesive manifold cordsets, 8 m (26.2 ft)	
264 467	Extension cable, M-style, adhesive manifold cordsets, 10 m (32.8 ft)	
446 703	Extension cable, M-style, adhesive manifold cordsets, 12 m (39.4 ft)	
265 216	Extension cable, M-style, adhesive manifold cordsets, 20 m (65.6 ft)	
257 676	Extension cable, M-style, heated air manifold cordsets, 1 m (3.3 ft)	
291 519	Extension cable, M-style, heated air manifold cordsets, 3 m (9.8 ft)	
264 934	Extension cable, M-style, heated air manifold cordsets, 5 m (16.4 ft)	
257 675	Extension cable, M-style, heated air manifold cordsets, 6 m (19.7 ft)	
267 579	Extension cable, M-style, heated air manifold cordsets, 8 m (26.2 ft)	
256 259	Extension cable, M-style, heated air manifold cordsets, 9 m (29.5 ft)	
261 743	Extension cable, M-style, heated air manifold cordsets, 10 m (32.8 ft)	
267 067	Extension cable, M-style, heated air manifold cordsets, 12 m (39.4 ft)	
283 427	Extension cable, M-style, heated air manifold cordsets, 15 m (49.2 ft)	
267 066	Extension cable, M-style, heated air manifold cordsets, 16 m (52.5 ft)	
292 242	Extension cable, M-style, heated air manifold cordsets, 20 m (65.6 ft)	
317 676	Extension cable, M-style, heated air manifold cordsets, 25 m (82.0 ft)	

Extension Cables *(contd)*



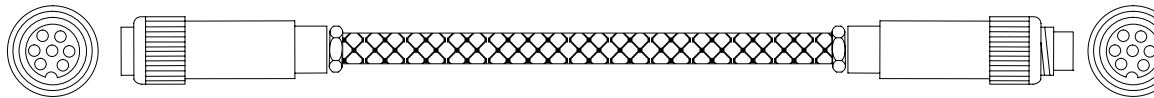
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Figure 11-15 M-style hose cordset extension cable



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Figure 11-16 M-style adhesive manifold cordset extension cable



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Figure 11-17 M-style heated air manifold cordset extension cable

Recommended Spare Parts and Supplies

For a general spare parts and supplies list, refer to *Recommended Spare Parts and Supplies* in Section 8, *Parts*.

Part	Description	Note
162256	Cordset, adhesive manifold, M-style, 100 ohm platinum RTD, 7-wire	
152105	Cordset, heated air manifold, M-style, 100 ohm platinum RTD, 5-wire	
- - - - -	Heater, adhesive and heated air manifolds	A
140305	RTD, adhesive and heated air manifolds	
815557	Thermostat, adhesive manifold	
939521	Pin, crimp connector, 20–16 gauge, silver (adhesive manifold cordset heater pins)	
939522	Pin, crimp connector, 20–26 gauge, silver (adhesive manifold cordset RTD pins)	
276784	Plug, 7-pin, water resistant (heated air manifold cordset connector)	
165415	Lubricant, heater (for the heaters)	
900298	Compound, heat-sink, 5 oz tube (for the RTDs)	
NOTE A: Refer to <i>Applicator-Specific Reference Drawings</i> in Section 8, <i>Parts</i> , for the part numbers of the heaters for your applicator.		

Technical Data

Electrical Specifications

Refer to the identification plate on the applicator for voltage and wattage information. For the location of the identification plate on your applicator, refer to the reference drawing of the applicator in *Applicator-Specific Reference Drawings* in Section 8, *Parts*.

Wiring Diagrams

These wiring diagrams are provided for your reference as needed during troubleshooting activities. Refer also to *Applicator-Specific Reference Drawings* in Section 8, *Parts*, for wiring diagrams specific to your applicator.

NOTE: The term “sensor” as used in these diagrams refers to the RTD.

Cordsets

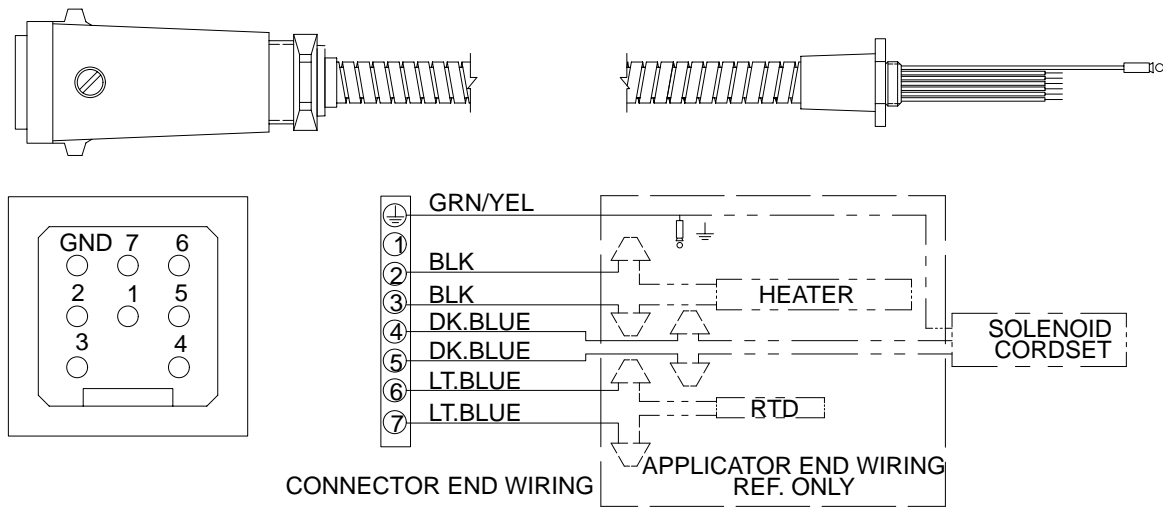


Figure 11-18 M-style adhesive manifold cordset wiring diagram

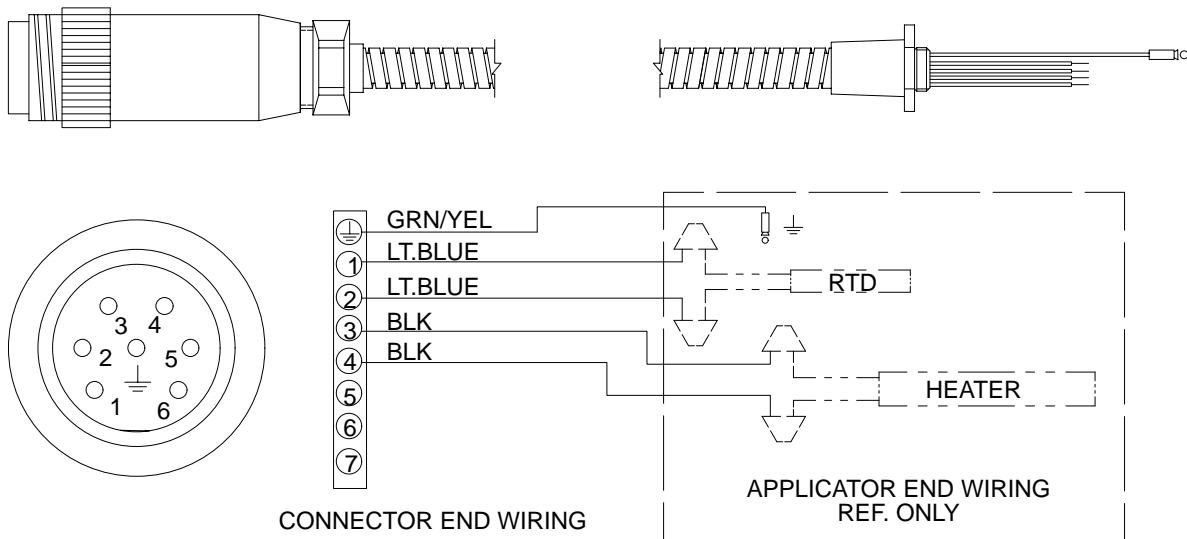


Figure 11-19 M-style heated air manifold cordset wiring diagram

Splitter and Adapter Cables

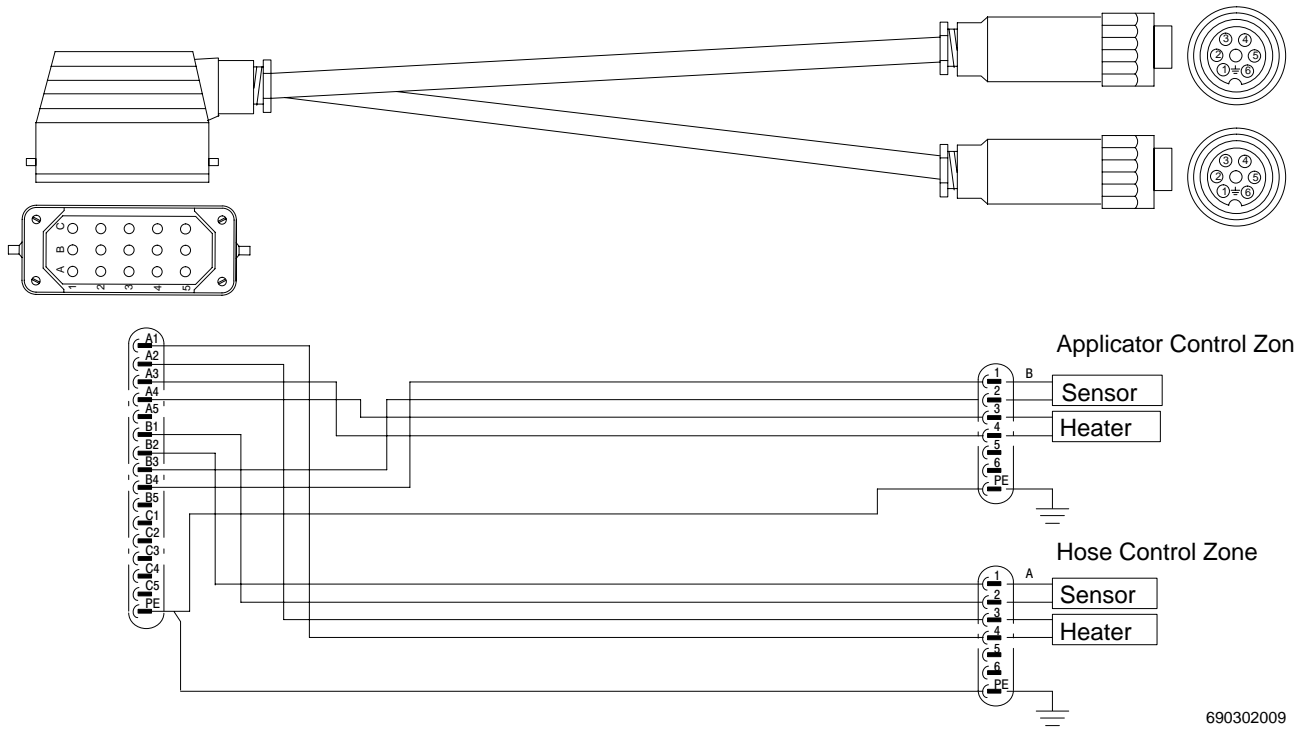


Figure 11-20 M-style splitter cable (two heated air manifold cordsets) wiring diagram

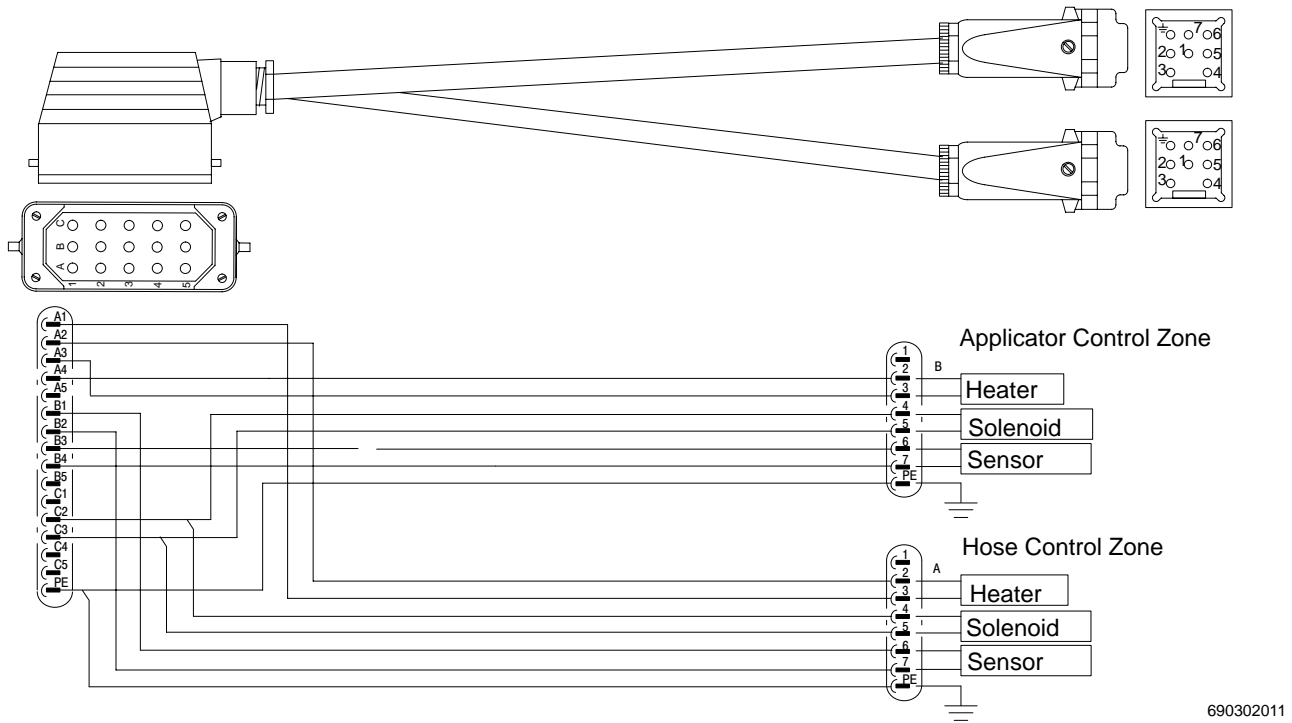
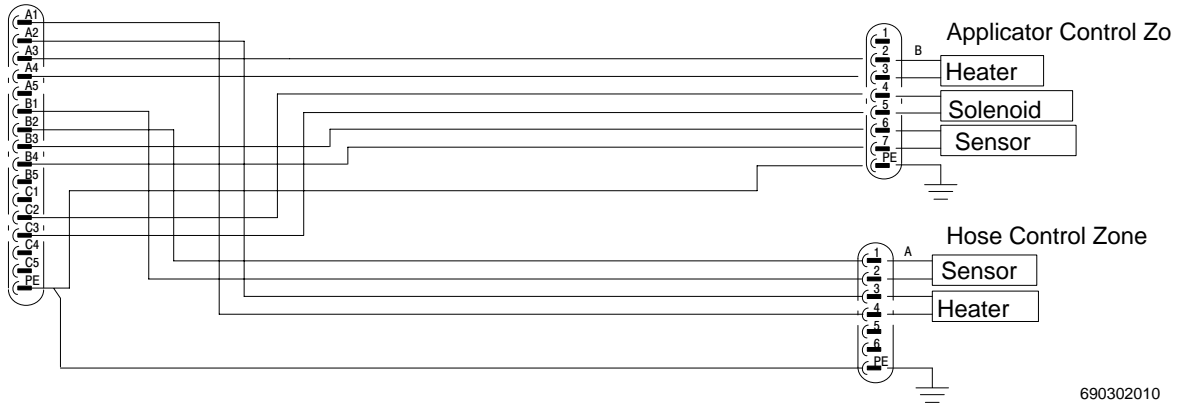
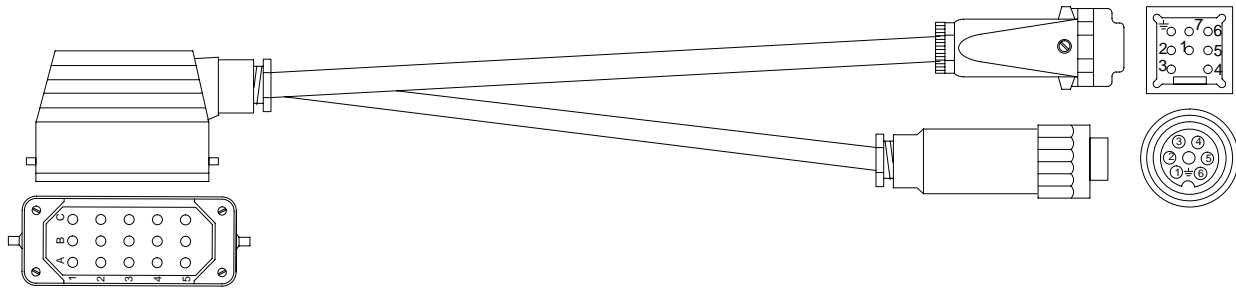


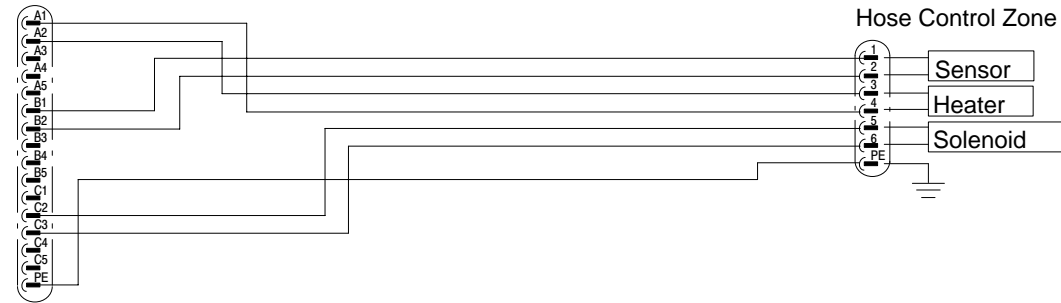
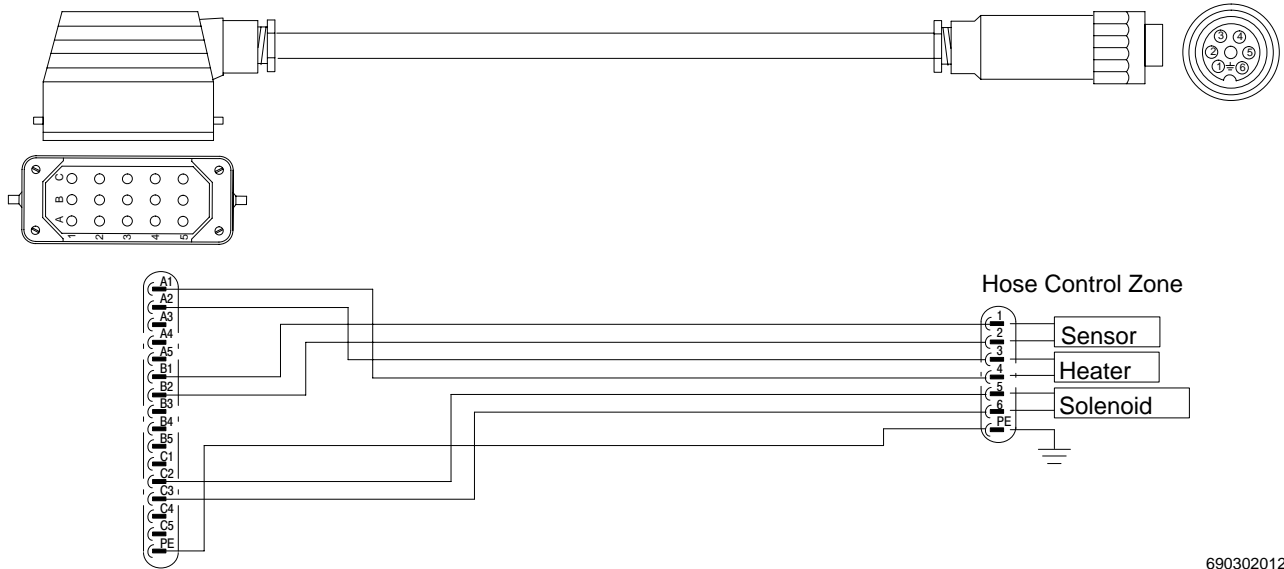
Figure 11-21 M-style splitter cable (two adhesive manifold cordsets) wiring diagram

Splitter and Adapter Cables (contd)



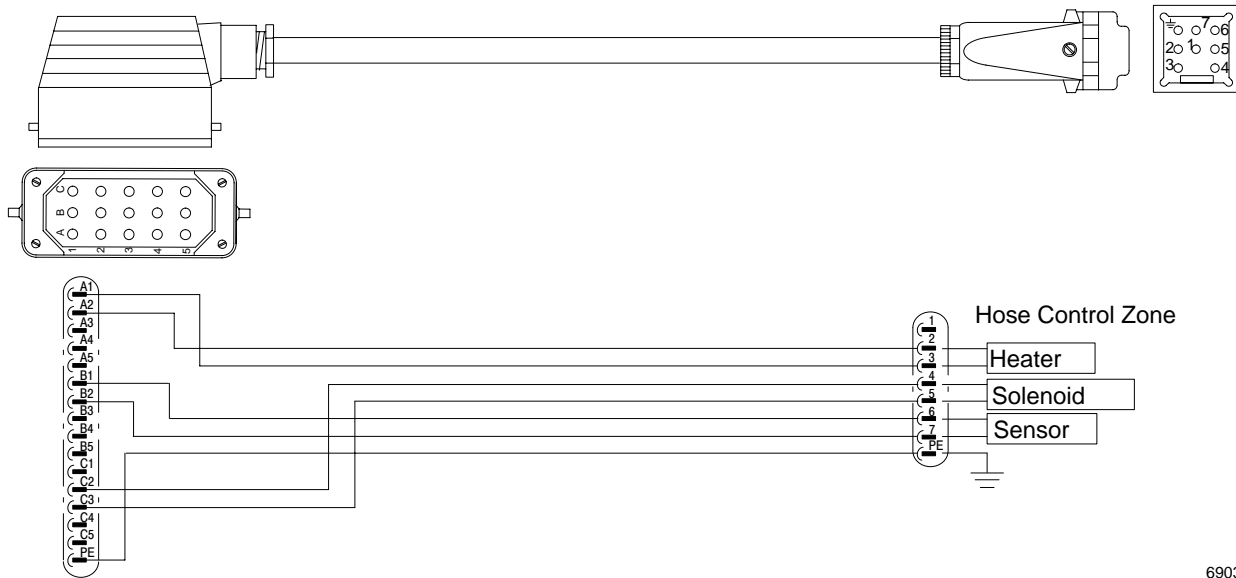
690302010

Figure 11-22 M-style splitter cable (one adhesive manifold cordset and one heated air manifold cordset) wiring diagram



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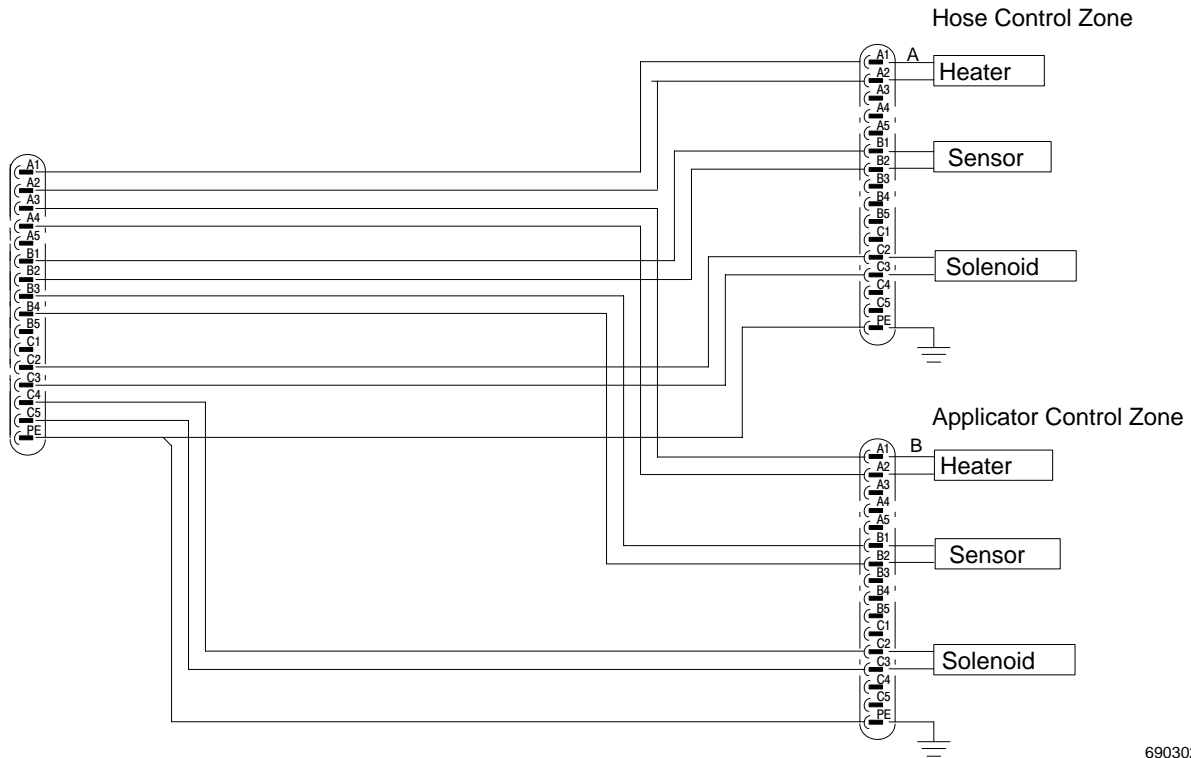
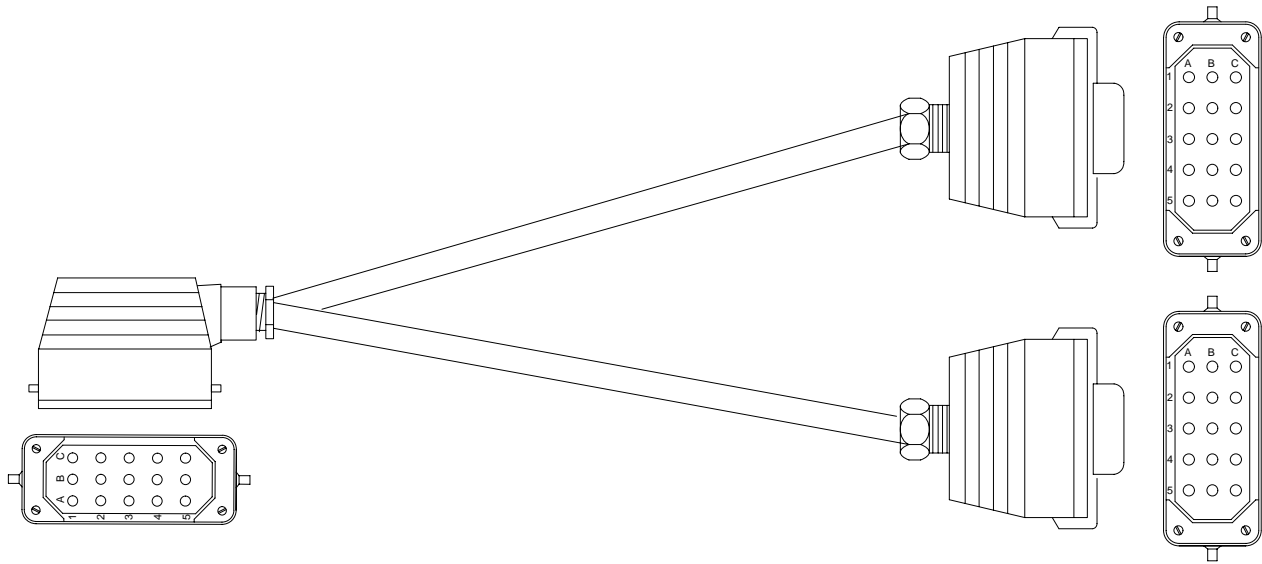
Figure 11-23 M-style adapter cable (one heated air manifold cordset) wiring diagram



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Figure 11-24 M-style adapter cable (one adhesive manifold cordset) wiring diagram

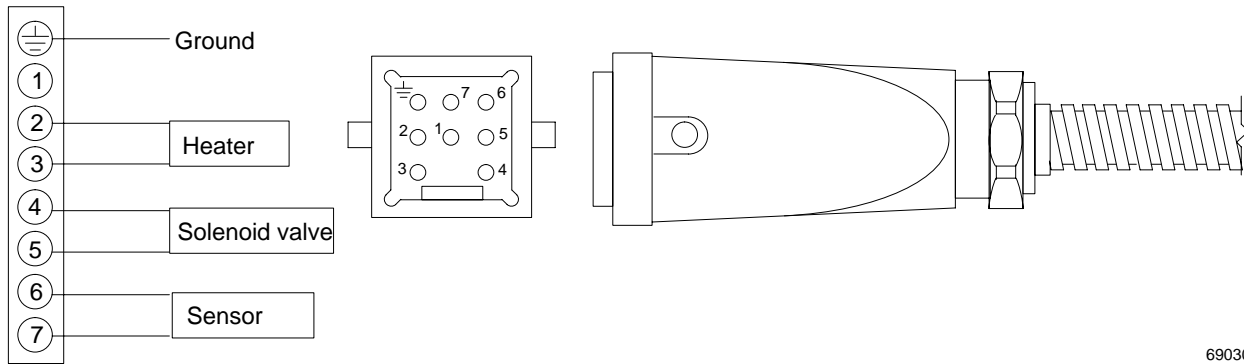
Splitter and Adapter Cables (contd)



690302014

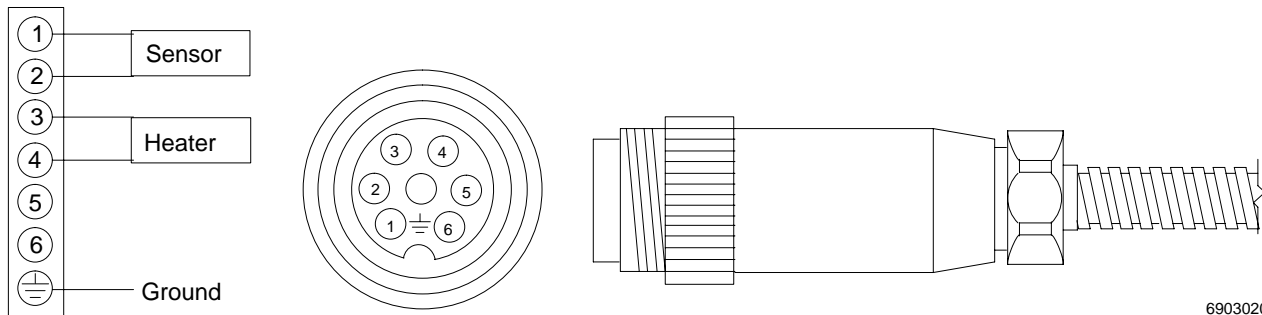
Figure 11-25 M-style splitter cable (two hose cordsets) wiring diagram

Extension Cables



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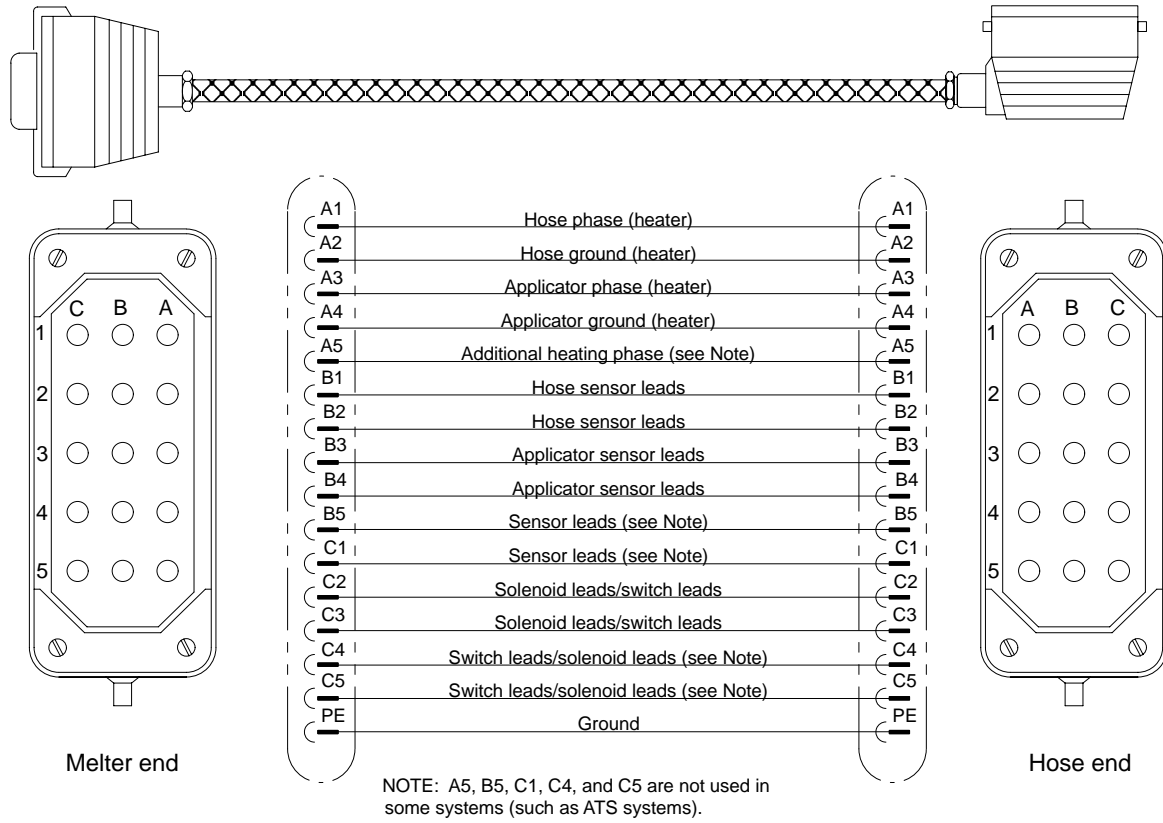
Figure 11-26 M-style adhesive manifold cordset extension cable wiring diagram



690302006

Figure 11-27 M-style heated air manifold cordset extension cable wiring diagram

Extension Cables (contd)



690302008

Figure 11-28 M-style hose cordset extension cable wiring diagram