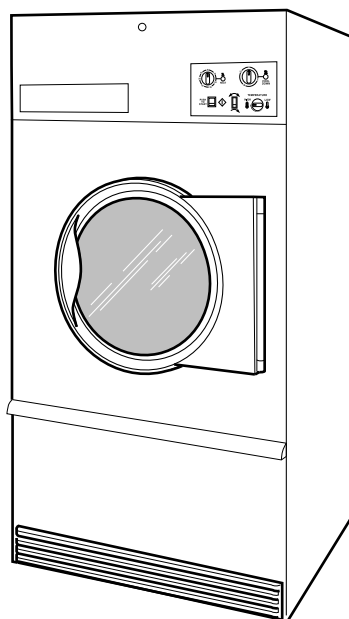


Tumble Dryers

50 Pound Capacity

75 Pound Capacity

Refer to Page 7 for Model Numbers



TMB795C

Troubleshooting

Table of Contents

Section 1 – Safety Information	5
Locating an Authorized Service Person	7
Safety Warnings and Decals.....	7
Safety Precautions for Servicing Tumble Dryers	7
Section 2 – Introduction	9
Model Identification	9
Serial Plate Location.....	11
Customer Service.....	11
Wiring Diagram	11
How a Tumble Dryer Works	12
Theory of Operation of Instant Electronic Ignition	12
Section 3 – Troubleshooting.....	13
1. Motor Does Not Start.....	14
2. Motor Overload Protector Cycles Repeatedly	15
3. Motor Runs But Cylinder Does Not Turn.....	16
4. Motor Does Not Stop	17
5. No Heat Condition (Non-CE and Non-Australian Models).....	18
6. Heating Element Does Not Heat or Burner Does Not Ignite	20
7. Igniter Does Not Shut Off After Gas Ignition — Gas Burner	22
8. Heating Element or Burner Shuts Off Prematurely	23
9. Heating Element or Burner Repeatedly Cycles Off On High Limit Thermostat.....	24
10. Heating Element or Burner Does Not Shut-Off.....	25
11. Clothes Do Not Dry	26
12. Tumble Dryer Overheating	27
13. Burners Not Burning Properly — Gas Models.....	28
14. Loading Door Opens During Operation.....	29
15. Tumble Dryer Runs But No Steam To Coils — Steam Models.....	30
16. Water In Steam Line — Steam Models	31
17. Door Open Light and Display Flash With Door Closed – Electronic Control Models	32
18. Display Shows “SH” and Signals Sounds – Electronic Control Models.....	33
19. Display Shows “OP” and Signal Sounds Three Minutes After Tumble Dryer is Started – Electronic Control Models	34
20. Tumble Dryer Will Not Start, Time on Drying Timer, Door Closed – Manual Timer Models	35
21. Motor Runs, Time on Drying Timer But No Heat.....	37
22. No Main Burner Flame, Igniter Does Not Spark.....	39
23. Steam OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat	40
24. OM and RM Control: No Start With Cycle Selected, Start Button Pressed and Door Closed	41
25. OM Control: No Display After Selecting One of the	

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ON/SELECT Keys	43
26. Electric OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat	44
27. Gas OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat	46
28. OM Control: No Fan Motor Rotation With Cycle Selected and Start Pressed	48
29. OM Reversing Control: No Cylinder Rotation or Reversing Capabilities.....	50
30. CD Control: No Start With Vend Satisfied and Start Button Pressed In	52
31. CD Control: No Heat With Vend Satisfied and Unit Running ...	54
32. CD Control: No Start With Vend Satisfied and Start Button Pushed	56
33. Coin Does Not Fall into Coin Vault or Coin Drop Sensor Does Not Register that Coin Has Been Entered.....	58
Section 4 – Adjustments	61
34. Main Gas Burner Air Inlet Shutters (Gas Models)	61
35. Airflow Switch (Gas and Electric Models).....	62
36. Loading Door Strike.....	64
37. Drive Belt Tension	64
38. Cylinder Clearance.....	67
Section 5 – Micro Display Control (MDC) Troubleshooting	69
39. Coins Ignored When Entered.....	69
40. Control Has No Display	70
41. Door Open Indicator	72
42. Motor Will Not Start/Run	74
43. Unit Will Not Heat – Gas.....	77
44. Unit Will Not Heat – Steam.....	80
45. Unit Will Not Heat – Electric	83
46. Error Codes	86
Section 6 – NetMaster Troubleshooting	87
47. No Infrared Communication	88
48. Coins Ignored When Entered.....	89
49. No Display	90
50. “Door Open” Indicator.....	92
51. No Start/Run	94
52. Unit Will Not Heat – Gas.....	96
53. Unit Will Not Heat – Steam.....	99
54. Unit Will Not Heat – Electric	101
55. CE Models No Display	104
56. CE Models “Door Open” Indicator.....	106
57. CE Models No Start/Run	108
58. CE Models Will Not Heat – Gas.....	110
59. CE Models Will Not Heat – Steam.....	113


60. CE Models Will Not Heat – Electric	115
Section 7 – On Premise Micro Control (OM) Troubleshooting	119
61. Control Has No Display	120
62. Door Open Indicator	122
63. Motor Will Not Start/Run	125
64. Unit Will Not Heat – Gas.....	128
65. Unit Will Not Heat – Steam.....	131
66. Unit Will Not Heat – Electric	133
67. Error Codes	136
Section 8 – Hybrid Timer Control Troubleshooting	137
68. Coins Ignored When Entered.....	137
69. Control Has No Display – QT and RQ Control Suffixes.....	138
70. Display Flashes “dr” With Door Closed – QT and RQ Control Suffixes	140
71. Vend Satisfied, No In Use LED – SD and SX Control Suffixes	143
72. In Use LED Lit, No Motor Run – SD and SX Control Suffixes	146
73. Motor Will Not Start/Run – SD and SX Control Suffixes.....	148
74. Motor Will Not Start/Run – QT and RQ Control Suffixes	150
75. Unit Will Not Heat – Gas – SD and SX Control Suffixes	152
76. Unit Will Not Heat – Gas – QT and RQ Control Suffixes	155
77. Unit Will Not Heat – Electric – QT and RQ Control Suffixes	158
78. Error Codes	161


[illegible]


Section 1

Safety Information

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING”, and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

	DANGER
Danger indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.	

	WARNING
Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.	


	CAUTION
Caution indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

	WARNING
<ul style="list-style-type: none">• Failure to install, maintain and/or operate this product according to the manufacturer’s instructions may result in conditions which can produce serious injury, death and/or property damage.• Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and unless you understand and have the skills to carry out the servicing.• Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.	
W006R2	

Safety Information

IMPORTANT INFORMATION: During the lifetime of a tumble dryer, it may require service. The information contained in this manual was written and is intended for use by qualified service technicians who are familiar with the safety procedures required in the repair of a tumble dryer, and who are equipped with the proper tools and testing equipment.



WARNING

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

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

W240

NOTE: The WARNING and IMPORTANT instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and carefulness are factors which **CANNOT** be built into this tumble dryer. These factors **MUST BE** supplied by the person(s) installing, maintaining or operating the tumble dryer.

Always contact your dealer, distributor, service agent or the manufacturer on any problems or conditions you do not understand.



WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007



CAUTION

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

Locating an Authorized Service Person

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

Safety Warnings and Decals

SAFETY WARNINGS and decals have been provided in key locations to remind you of important precautions for the safe operation and maintenance of your tumble dryer. Please take the time to review these warnings before proceeding with service work.

All decals have been designed and applied to withstand washing and cleaning. Decals should be checked periodically to be sure they have not been damaged, removed, or painted.

Safety Precautions for Servicing Tumble Dryers

Prior to servicing tumble dryer:

- Disconnect electrical service and “lockout” to prevent unintentional connection.
- Shut off supply gas valve.
- Allow machine to cool prior to servicing.

After servicing tumble dryer:

- Control/access panels must be reinstalled.
- Motor/drive/belt guards must be reinstalled.
- Contactor/junction/accessory box covers must be reinstalled.
- Use a non-corrosive leak detection solution to check all pipe connections for gas leaks. **DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS!**
- The loading door switch, lint door switch and airflow switch must be operating properly.

Notes

[illegible]

Section 2

Introduction

Model Identification

Information in this manual is applicable to these models:

	Gas			Steam/Thermal Oil		Electric
50 Pound	AT050L	HT050D	PA050L	AT050S	KT050T	AT050E
	AT050N	HT050L	PA050N	BT050T	KU050S	CHD50E2-CT050E
	CHD50G2-CA050L	HT050N	PT050L	BU050T	KU050T	CHD50E2-CU050E
	CHD50G2-CA050N	HU050L	PT050N	CHD50S2-CT050S	LT050S	DR50E2-BT050E
	CHD50G2-CT050L	HU050N	PU050L	CHD50S2-CU050S	LT050T	DR50E2-BU050E
	CHD50G2-CT050N	IPD50G2-IT050L	PU050N	CT050T	LU050S	GT050E
	CHD50G2-CU050L	IPD50G2-IT050N	SA050L	CU050T	LU050T	GU050E
	CHD50G2-CU050N	KA050L	SA050N	DR50S2-BT050S	PT050S	HT050E
	DR50G2-BA050L	KA050N	ST050D	DR50S2-BU050S	PT050T	HU050E
	DR50G2-BA050N	KT050L	ST050L	GT050S	PU050S	IPD50E2-IT050E
	DR50G2-BT050L	KT050N	ST050N	GT050T	PU050T	KT050E
	DR50G2-BT050N	KU050L	SU050L	GU050S	ST050S	KU050E
	DR50G2-BU050L	KU050N	SU050N	GU050T	ST050T	LT050E
	DR50G2-BU050N	LA050L	UA050L	HT050S	SU050S	LU050E
	GA050L	LA050N	UA050N	HT050T	SU050T	PT050E
	GA050N	LT050L	UT050L	HU050S	UT050S	PU050E
	GT050L	LT050N	UT050N	HU050T	UT050T	ST050E
	GT050N	LU050L	UU050L	IPD50S2-IT050S	UU050S	SU050E
	GU050L	LU050N	UU050N	IT050T	UU050T	UT050E
	GU050N	NT050L	YT050L	KT050S	YT050S	UU050E
	HA050L	NT050N	YT050N		YT050T	YT050E
	HA050N					

(continued)

NOTE: Control suffixes listed on next page.

Introduction

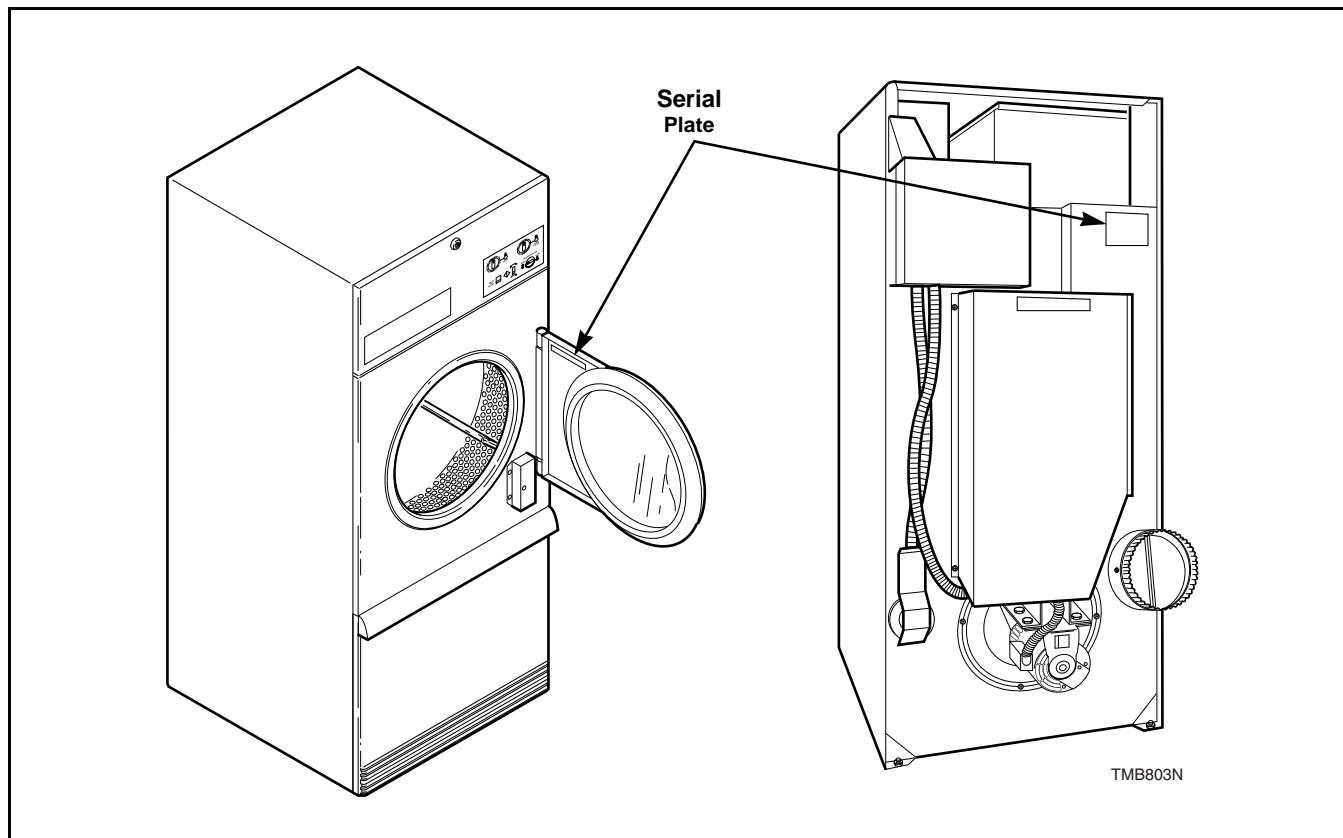
	Gas			Steam/Thermal Oil		Electric
75 Pound	AT075L	HT075L	PT075N	AT075S	KU075T	AT075E
	AT075N	HT075N	PU075L	BT075T	LT075S	CHD75E2-CT075E
	CHD75G2-CA075L	HU075L	PU075N	BU075T	LT075T	CHD75E2-CU075E
	CHD75G2-CA075N	HU075N	SA075L	CHD75S2-CT075S	LU075S	DR75E2-BT075E
	CHD75G2-CT075L	IPD75G2-IT075L	SA075N	CHD75S2-CU075S	LU075T	DR75E2-BU075E
	CHD75G2-CT075N	IPD75G2-IT075N	ST075D	CT075T	PT075S	GT075E
	CHD75G2-CU075L	KA075L	ST075L	CU075T	PT075T	GU075E
	CHD75G2-CU075N	KA075N	ST075N	DR75S2-BT075S	PU075S	HT075E
	DR75G2-BA075L	KT075L	STF75L	DR75S2-BU075S	PU075T	HU075E
	DR75G2-BA075N	KT075N	STF75N	GT075S	ST075S	IPD75E2-IT075E
	DR75G2-BT075L	KU075L	SU075L	GT075T	ST075T	KT075E
	DR75G2-BT075N	KU075N	SU075N	GU075S	SU075S	KU075E
	DR75G2-BU075L	LA075L	UA075L	GU075T	SU075T	LT075E
	DR75G2-BU075N	LA075N	UA075N	HT075S	UT075S	LU075E
	GA075L	LT075L	UT075L	HT075T	UT075T	PT075E
	GA075N	LT075N	UT075N	HU075S	UU075S	PU075E
	GT075L	LU075L	UTF75L	HU075T	UU075T	ST075E
	GT075N	LU075N	UTF75N	IPD75S2-IT075S	YT075S	SU075E
	GU075L	NT075L	UU075L	IT075T	YT075T	UB075E
	GU075N	NT075N	UU075N	KT075S	YU075S	UT075E
	HA075L	PA075L	YT075L	KT075T	YU075T	UU075E
	HA075N	PA075N	YT075N	KU075S		YT075E
	HT075D	PT075L				YU075E

Includes models with the following control suffixes:

3O - DX4 OPL	DO - DMP OPL	R3 - reversing DX4 OPL
3V - DX4 vended	DV - DMP vended	RD - reversing DMP OPL
3X - DX4 prep for coin	DX - DMP prep for coin	RM - reversing OPL micro
BC - basic electronic, coin	MT - manual timer	RQ - reversing dual digital timer
BL - basic electronic, central pay	NC - NetMaster coin	RT - reversing manual timer
BX - basic electronic, prep for coin	NR - NetMaster card	SD - single drop
BY - basic electronic, prep for card	NX - NetMaster, prep for coin	SX - single drop, prep for coin
CD - rotary coin drop	NY - NetMaster, prep for card	ZC - NetMaster network, coin
CX - prep for coin	OM - OPL micro	ZR - NetMaster network, card
CY - prep for card	QT - dual digital timer	ZX - NetMaster network, prep for coin
		ZY - NetMaster network, prep for card

Serial Plate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are found on serial plate on the rear of machine and inside door.



Customer Service

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

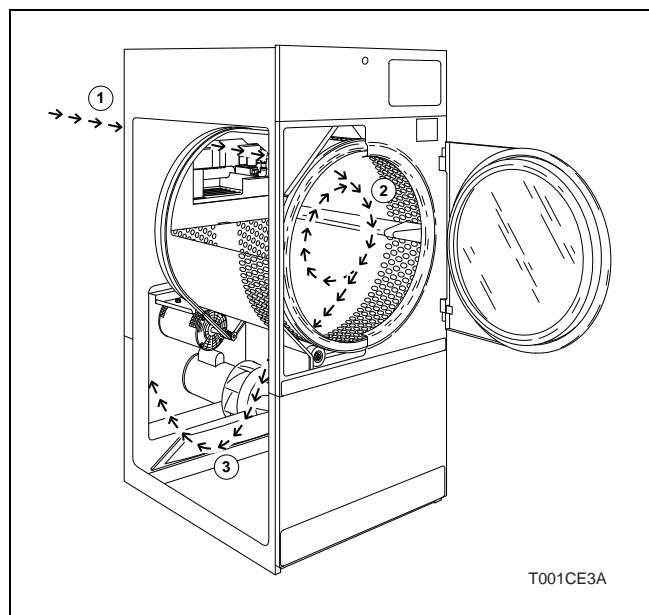
For technical assistance, call (920) 748-3121.

Wiring Diagram

The wiring diagram is located inside the junction or contactor box.

Models starting Serial No. 0309____ or later will have the wiring diagram part number in the lower portion of the electrical data on the serial plate.

How a Tumble Dryer Works



A tumble dryer uses heated air to dry loads of laundry.

- ① When the motor is started, the exhaust fan pulls room temperature air in through the air intake at the rear of the tumble dryer and over the heat source (burner flame for gas, heating element for electric, and coil for steam).
- ② The heated air moves into the cylinder, where it is circulated through the wet load by the tumbling action of the cylinder.
- ③ The air then passes through the lint filter, exhaust fan, and is vented to the outdoors.

Theory of Operation of Instant Electronic Ignition

IMPORTANT: The Non-CE Marked Instant Electronic Ignition system will attempt to light the gas by sparking for approximately 15 seconds. If gas ignition does not take place within approximately 15 seconds, the Instant Electronic Ignition control will go into safety lockout and the valve will no longer open until Instant Electronic Ignition control is reset. To reset Instant Electronic Ignition control, remove power from control by opening and closing the tumble dryer door. If condition persists, check that the gas shut-off valve is in “on” position and that the gas service is properly connected.

If condition persists:

1. Check resistance of high tension lead (approximately 1000 ohms/inch), and replace if not within resistance range.
2. Check voltage present at valve.
3. Check that machine is properly grounded.
4. Check the gap between igniter and burner tube (gap should be 1/4-3/8 inch).
5. Check that burner ports are not blocked or plugged under the igniter.

Section 3

Troubleshooting



WARNING

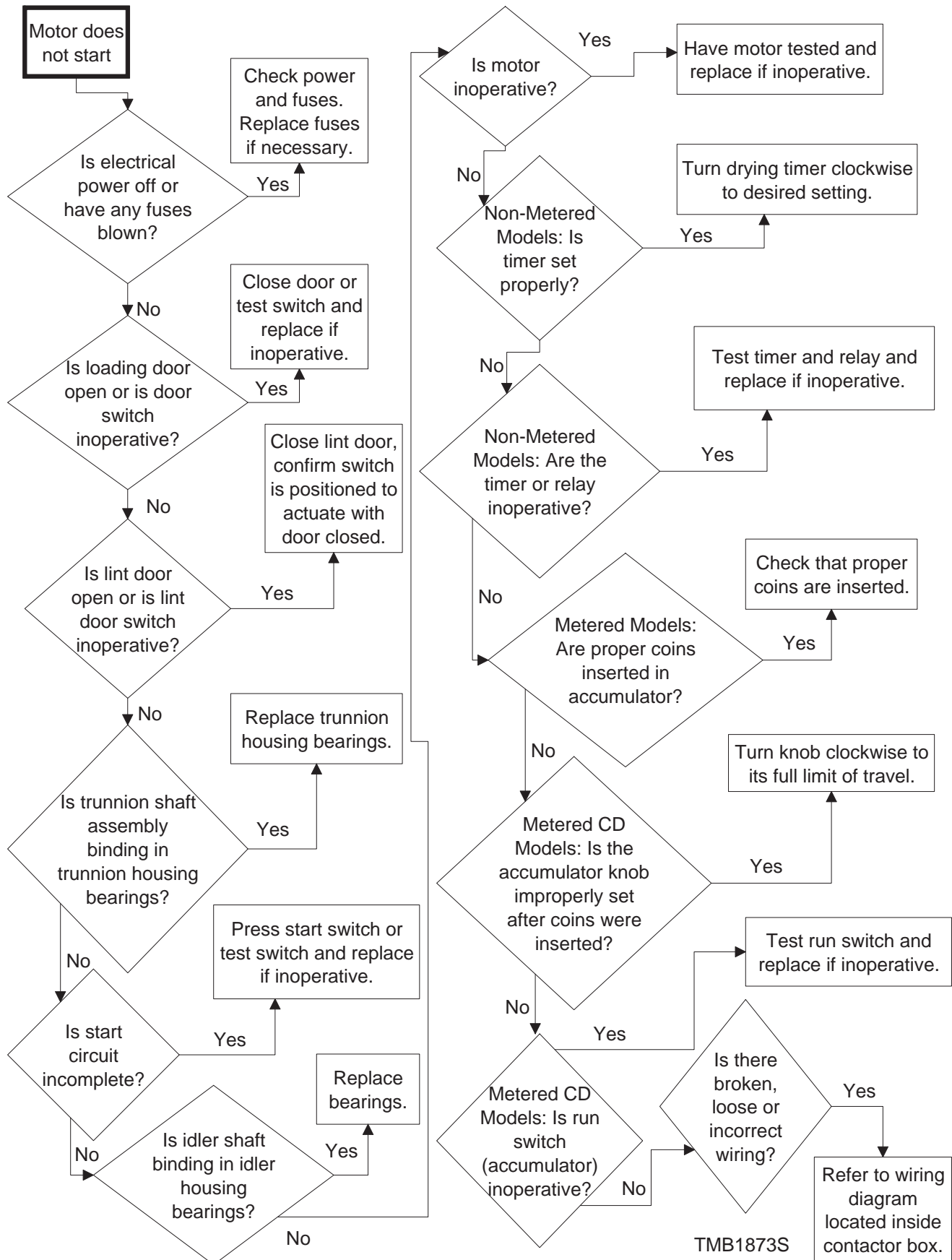
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

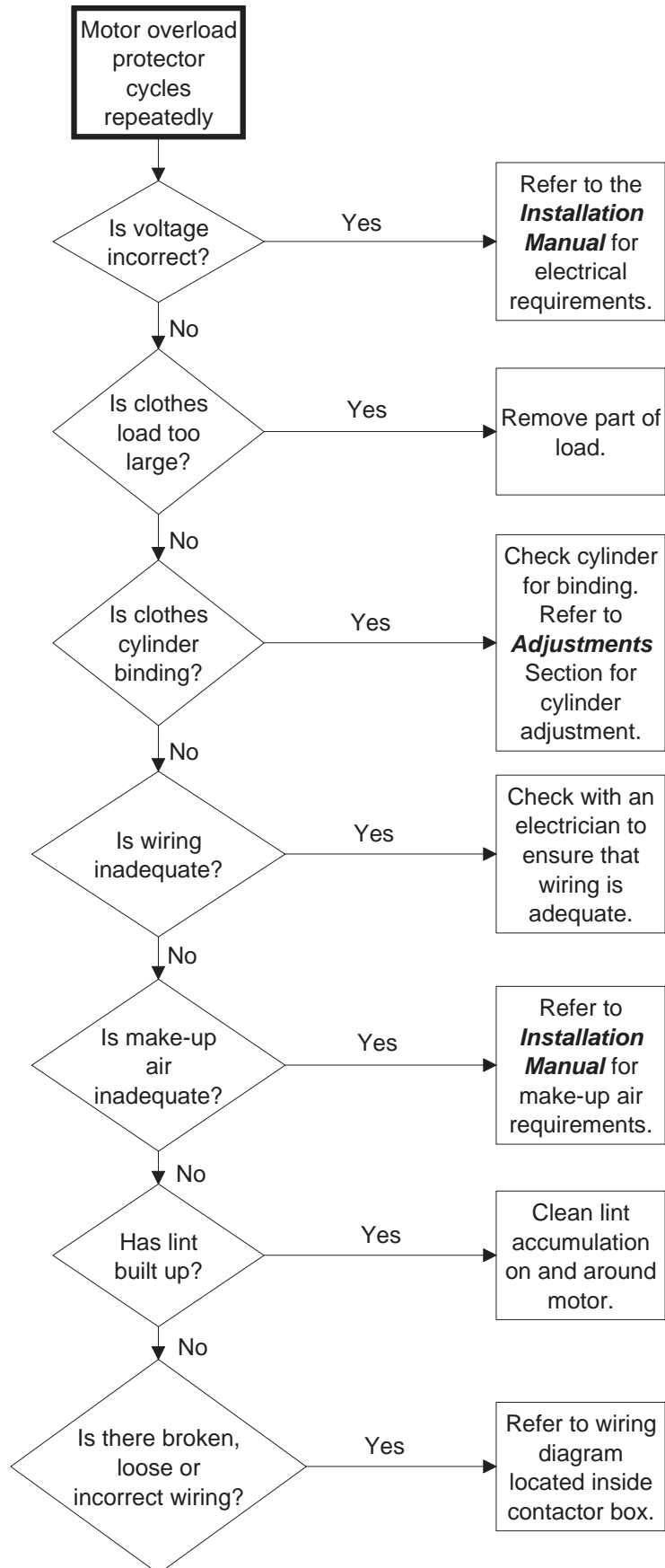
W002R1

IMPORTANT: Refer to appropriate wiring diagram for aid in testing tumble dryer components.

1. Motor Does Not Start

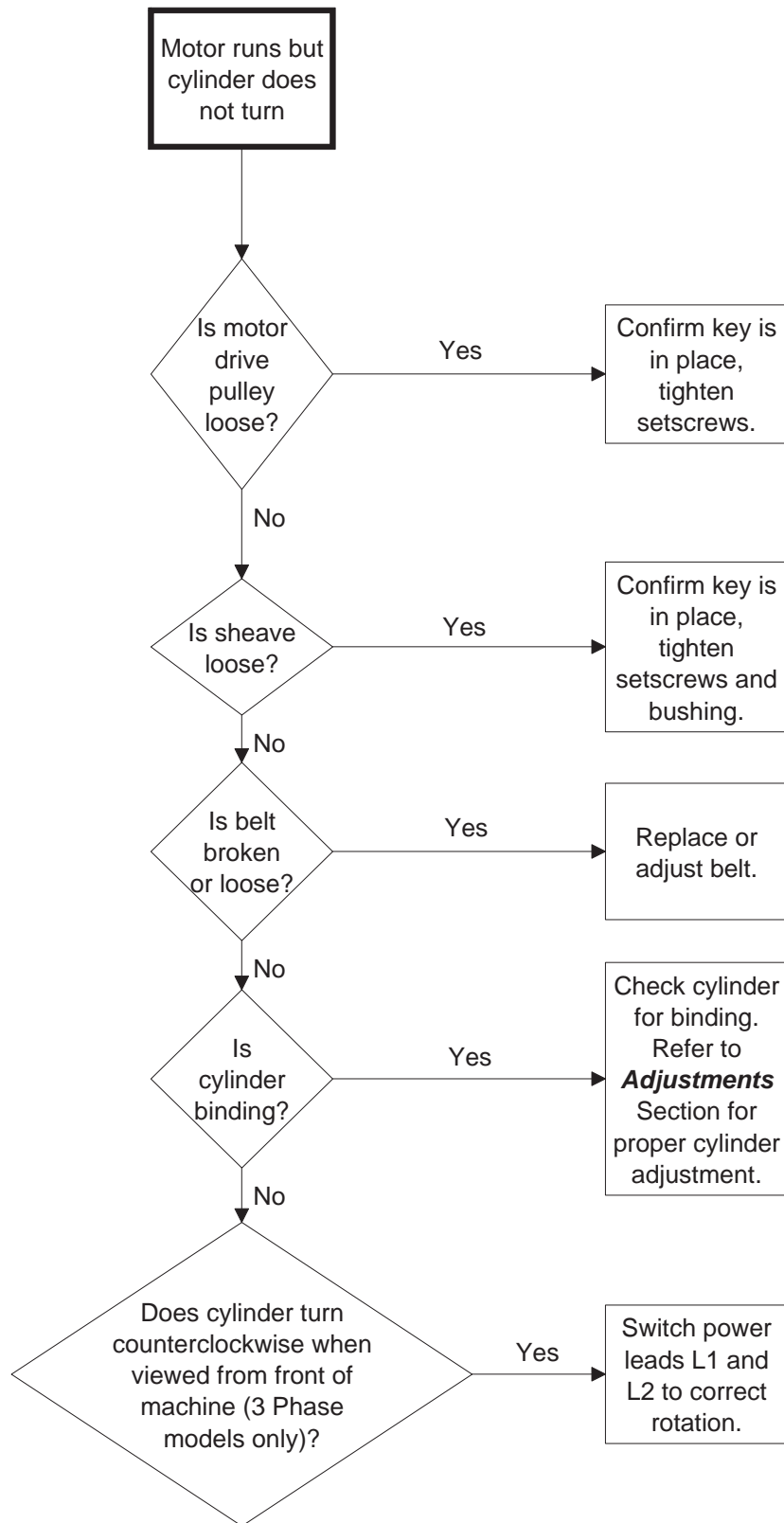


2. Motor Overload Protector Cycles Repeatedly



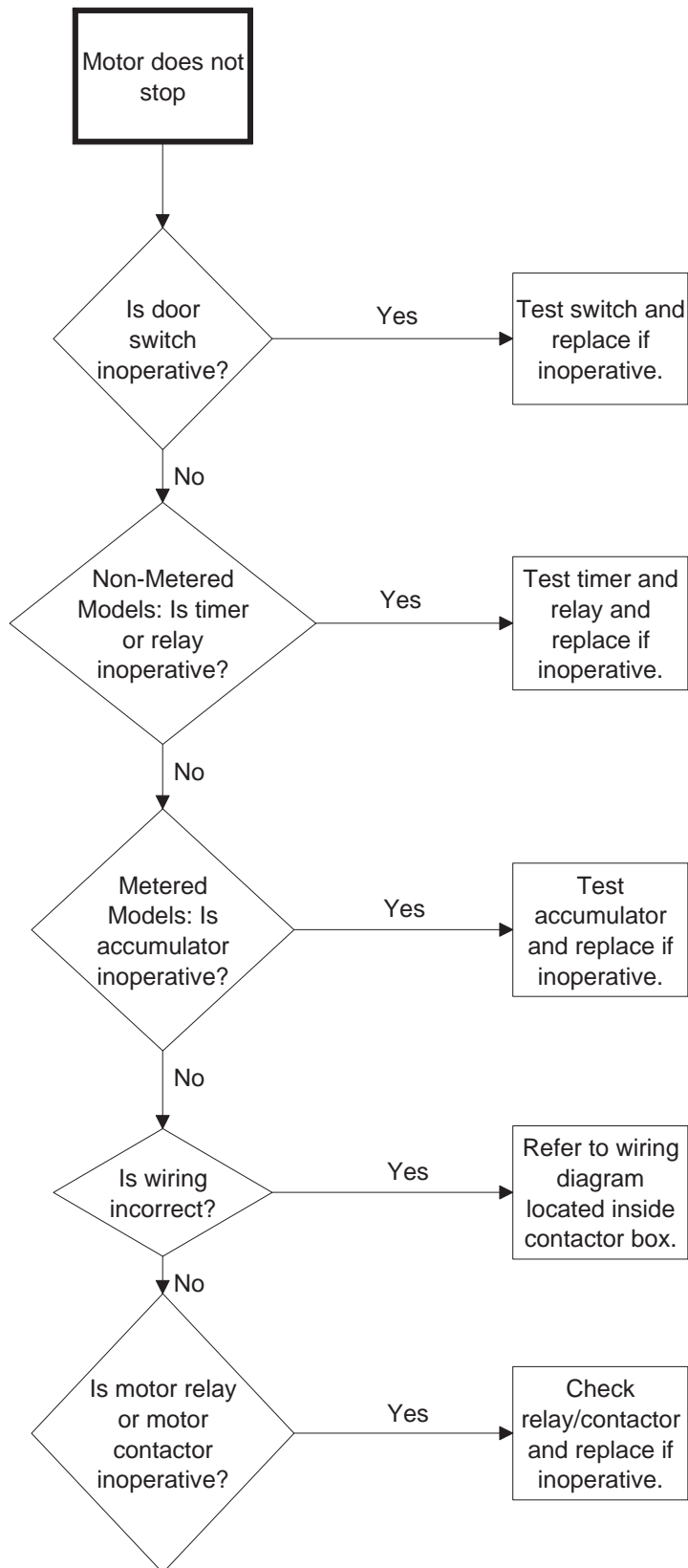
TMB1874S

3. Motor Runs But Cylinder Does Not Turn



TMB1875S

4. Motor Does Not Stop



TMB1876S

5. No Heat Condition (Non-CE and Non-Australian Models)

Ignition Control Module Function

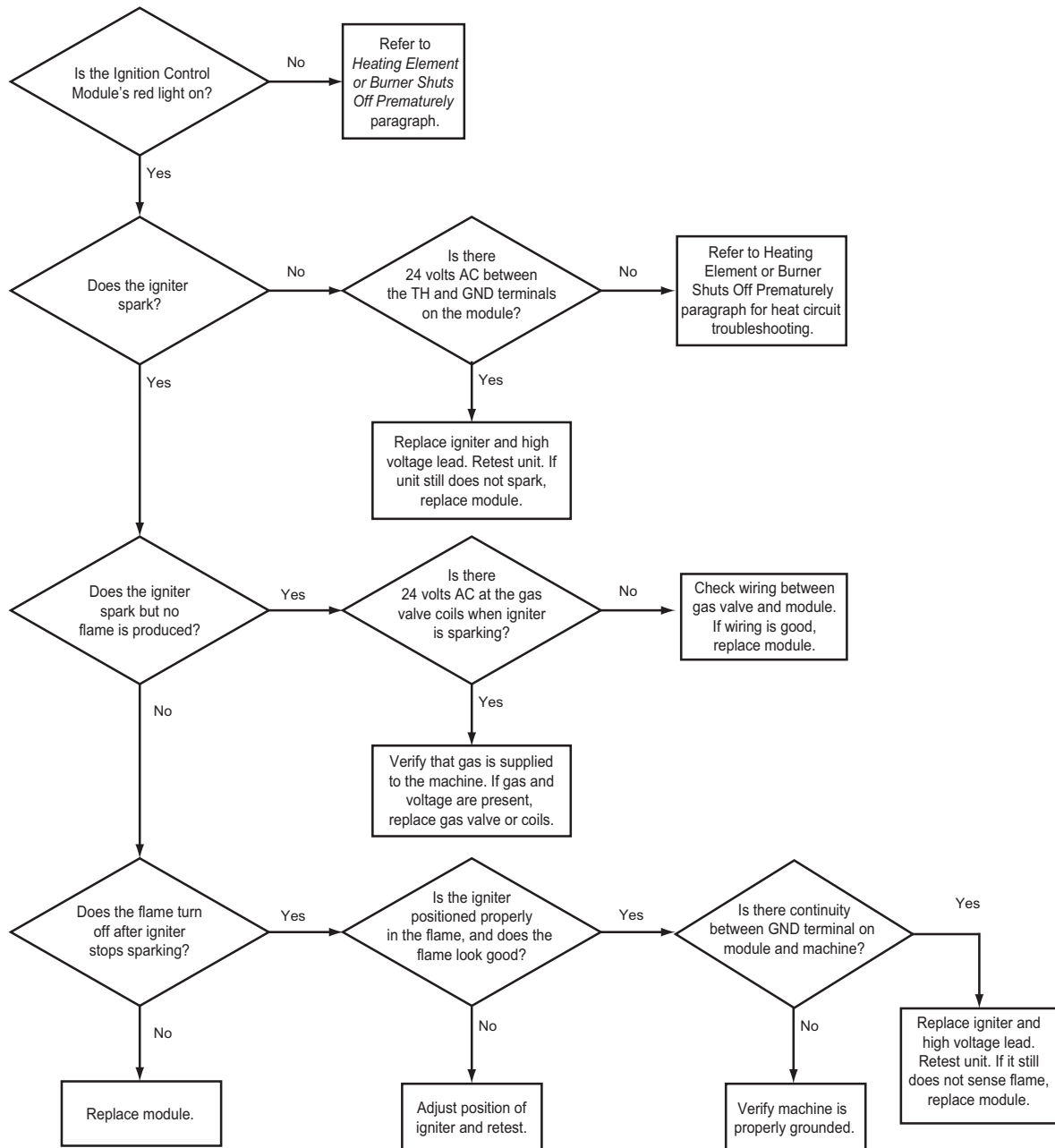
There are four components to the ignition system: the module, the spark igniter, the high voltage cable and ground wire. When 24 VAC is applied between the TH and GND terminal on the module, the module will send the high voltage signal to the igniter and 24 VAC to the gas valve coils. Gas will hit the sparking igniter and flame will be established. The igniter being engulfed in flame will create a millivolt electric signal that is sent back to the module by the high voltage cable; this is what the module sees as flame recognition. If the millivolt signal is not at the module in ten seconds, the module will go into safety lockout. The voltage will be cut from the igniter and gas valve coils and will not be restored until voltage is cycled at the module.

Intermittent Heat Test Procedure

On ignition control modules the date codes higher than 08t2, perform the following test.

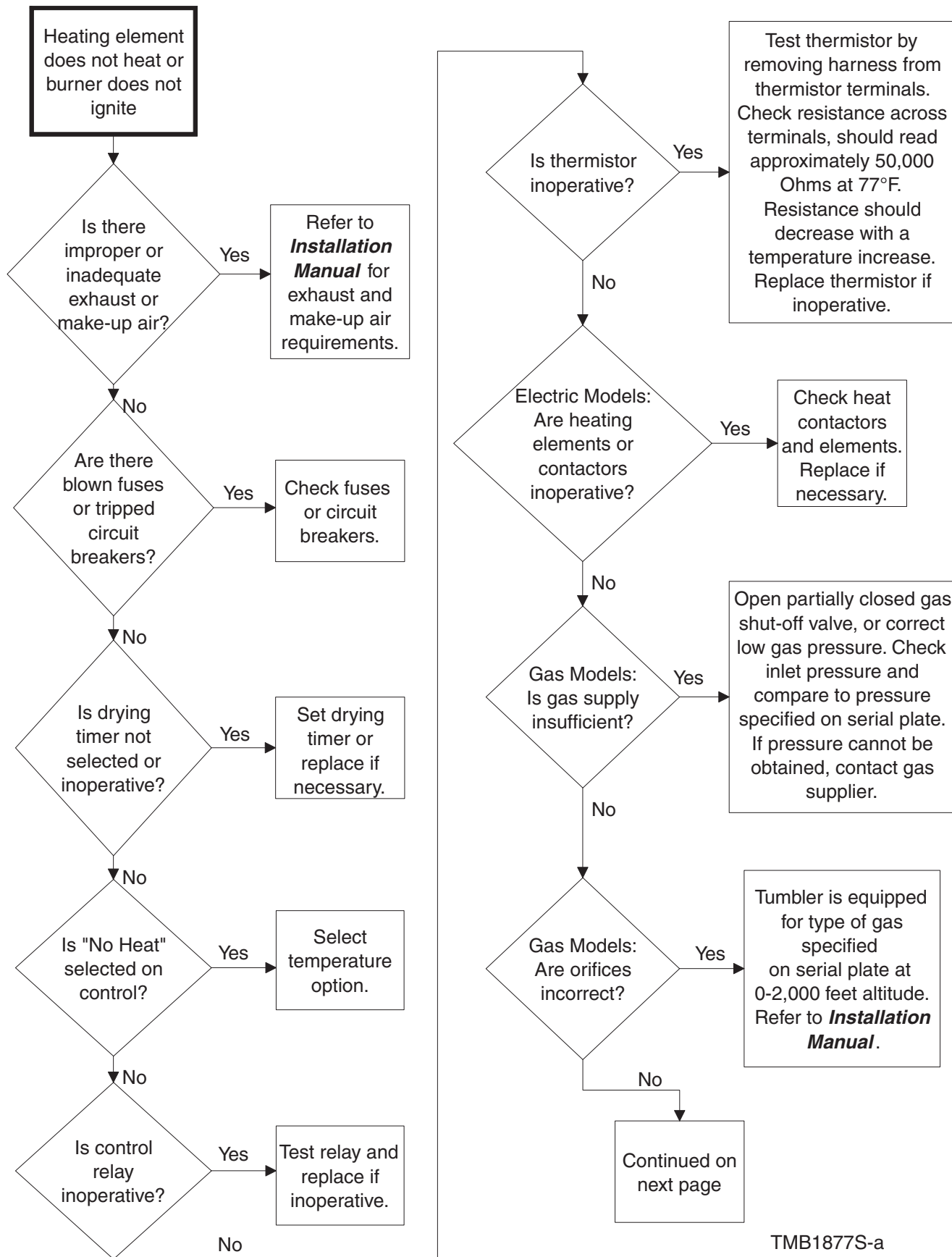
Start the tumble dryer and run for 10 minutes (verify that the tumble dryer is heating properly). after the 10 minute cycle, re-start the tumble dryer and once again verify the unit is heating. Repeat this procedure 3 times. If the tumble dryer passes this test, the ignition control module is operating properly and SHOULD NOT be changed.

5. No Heat Condition (Non-CE and Non-Australian Models) (continued)



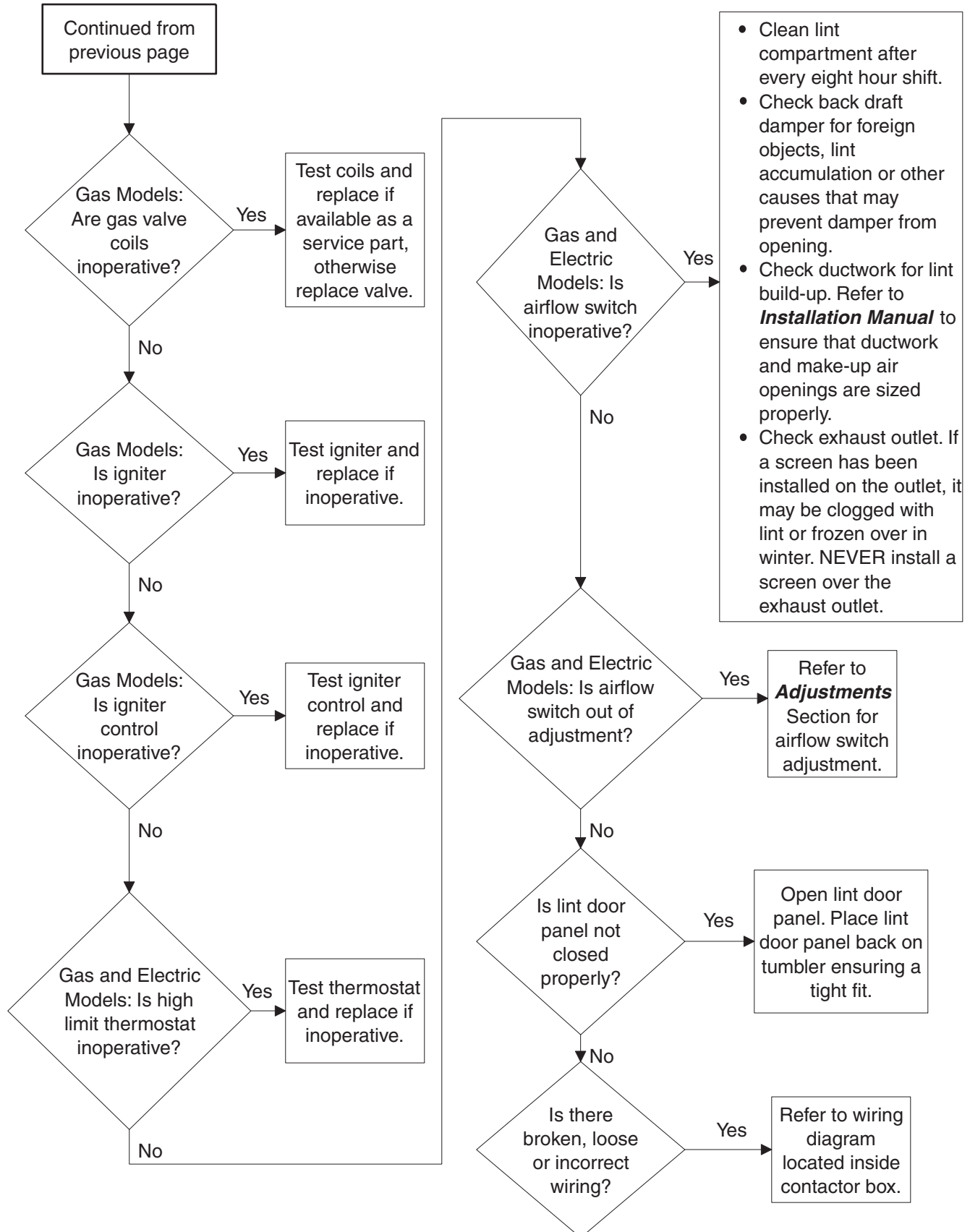
TMB2418S

6. Heating Element Does Not Heat or Burner Does Not Ignite



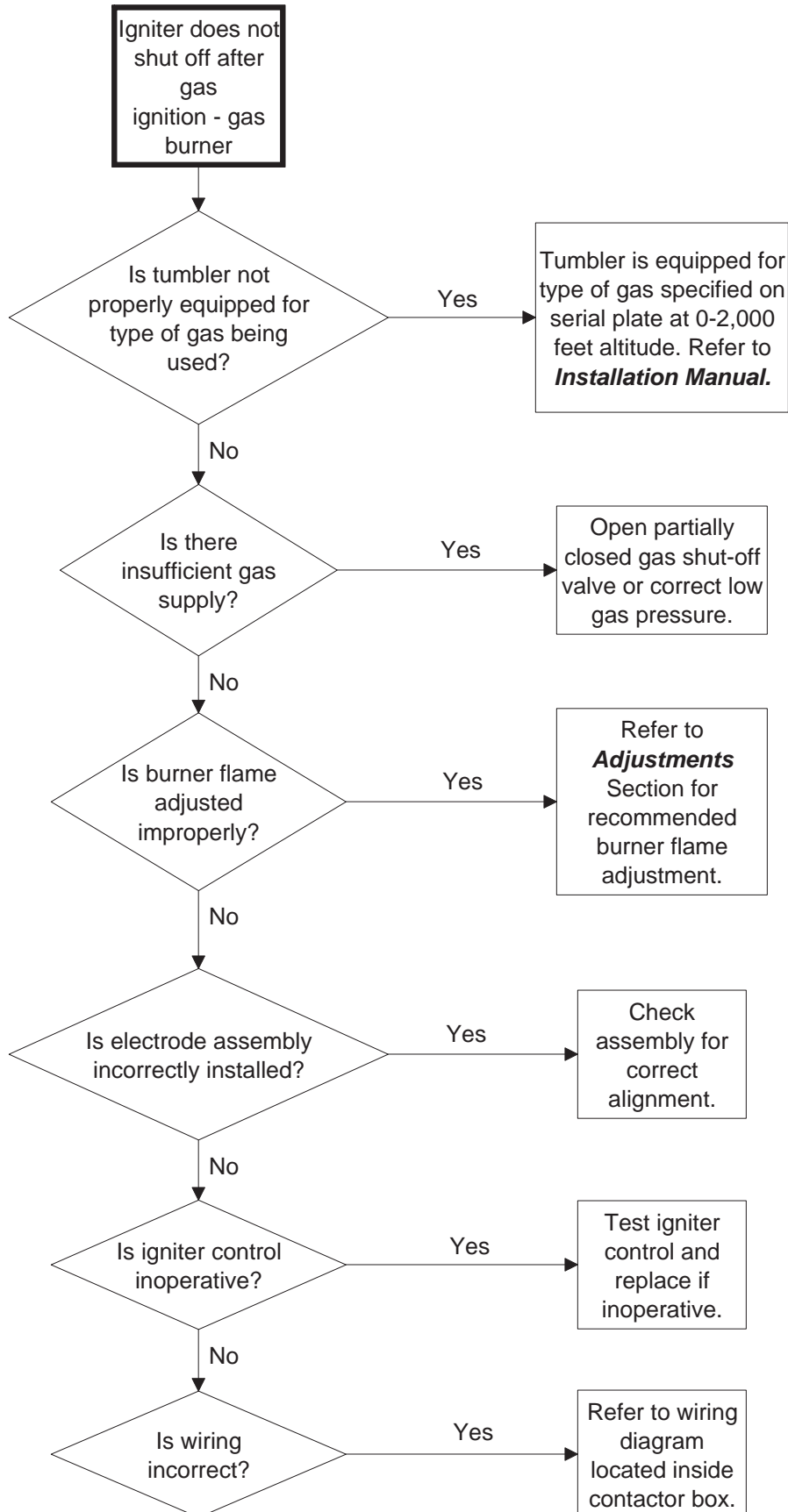
TMB1877S-a

6. Heating Element Does Not Heat or Burner Does Not Ignite (continued)



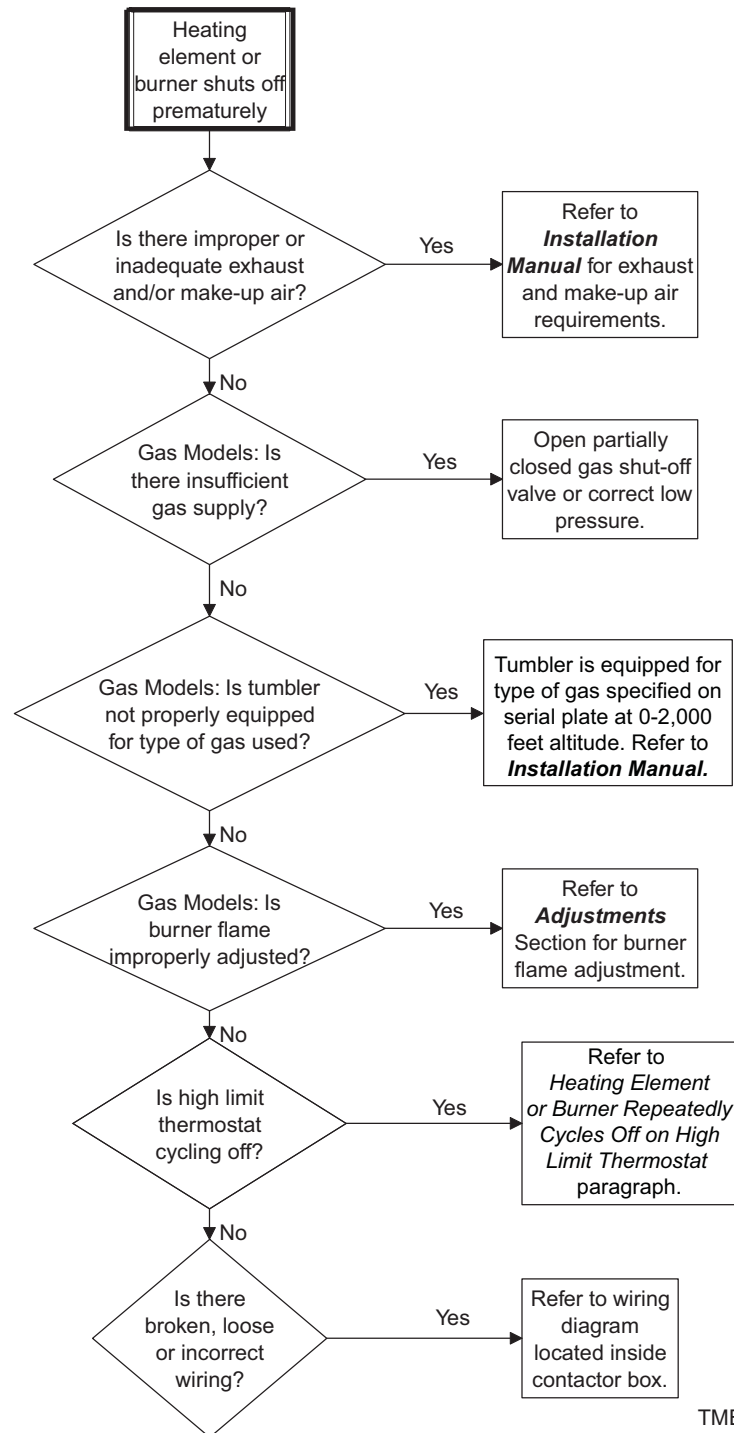
TMB1877S-b

7. Igniter Does Not Shut Off After Gas Ignition — Gas Burner



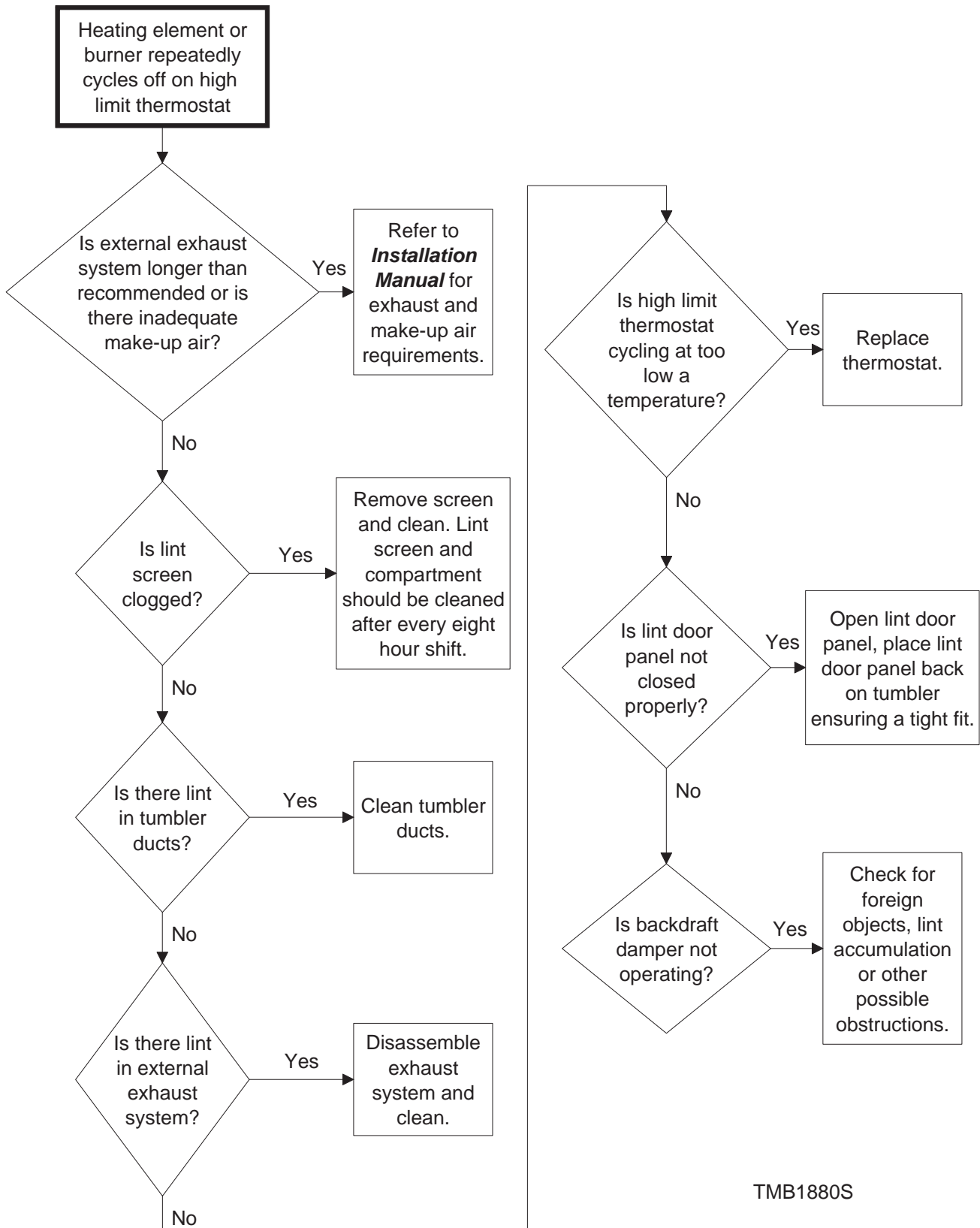
TMB1878S

8. Heating Element or Burner Shuts Off Prematurely

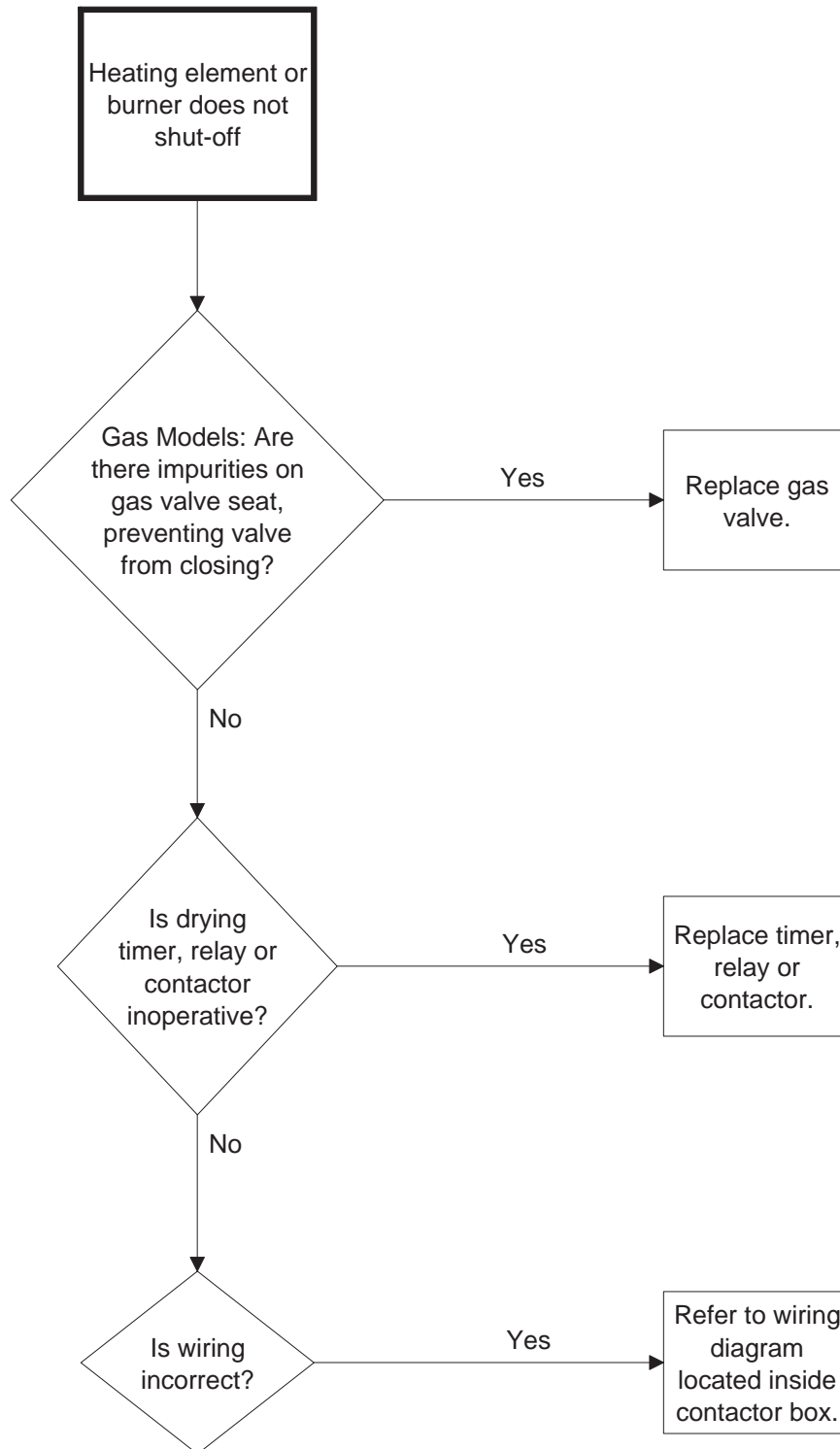


TMB2419S

9. Heating Element or Burner Repeatedly Cycles Off On High Limit Thermostat

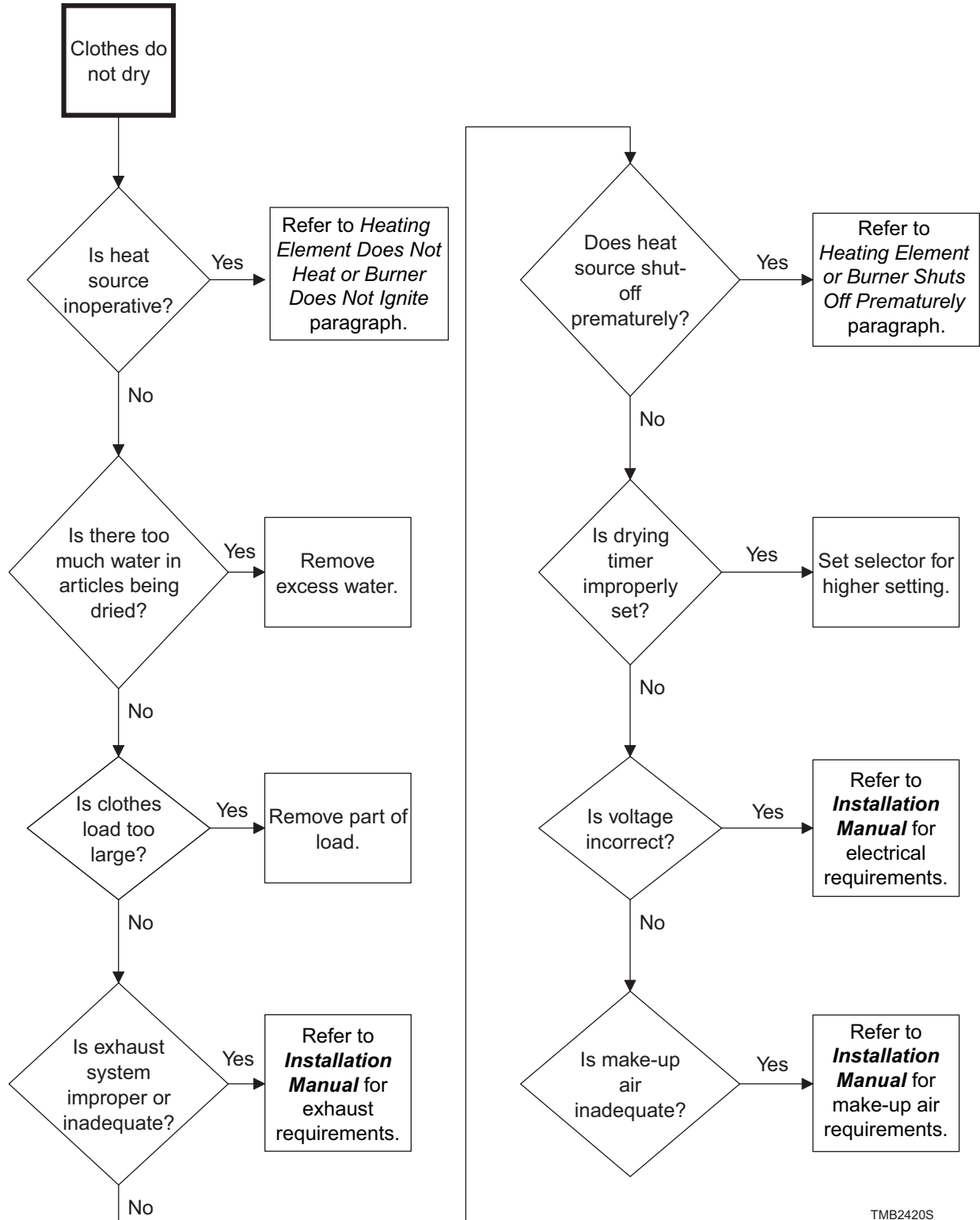


10. Heating Element or Burner Does Not Shut-Off



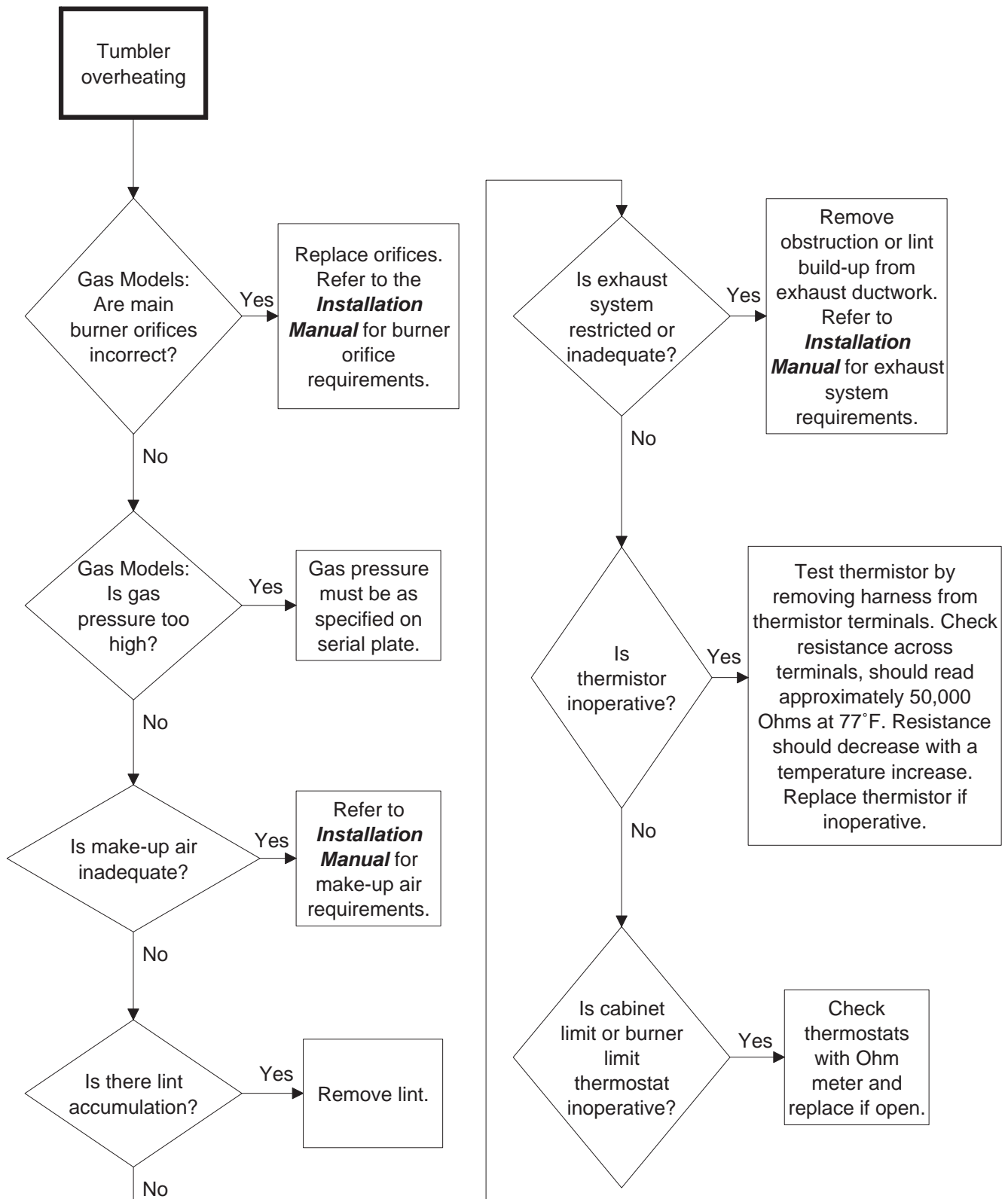
TMB1881S

11. Clothes Do Not Dry



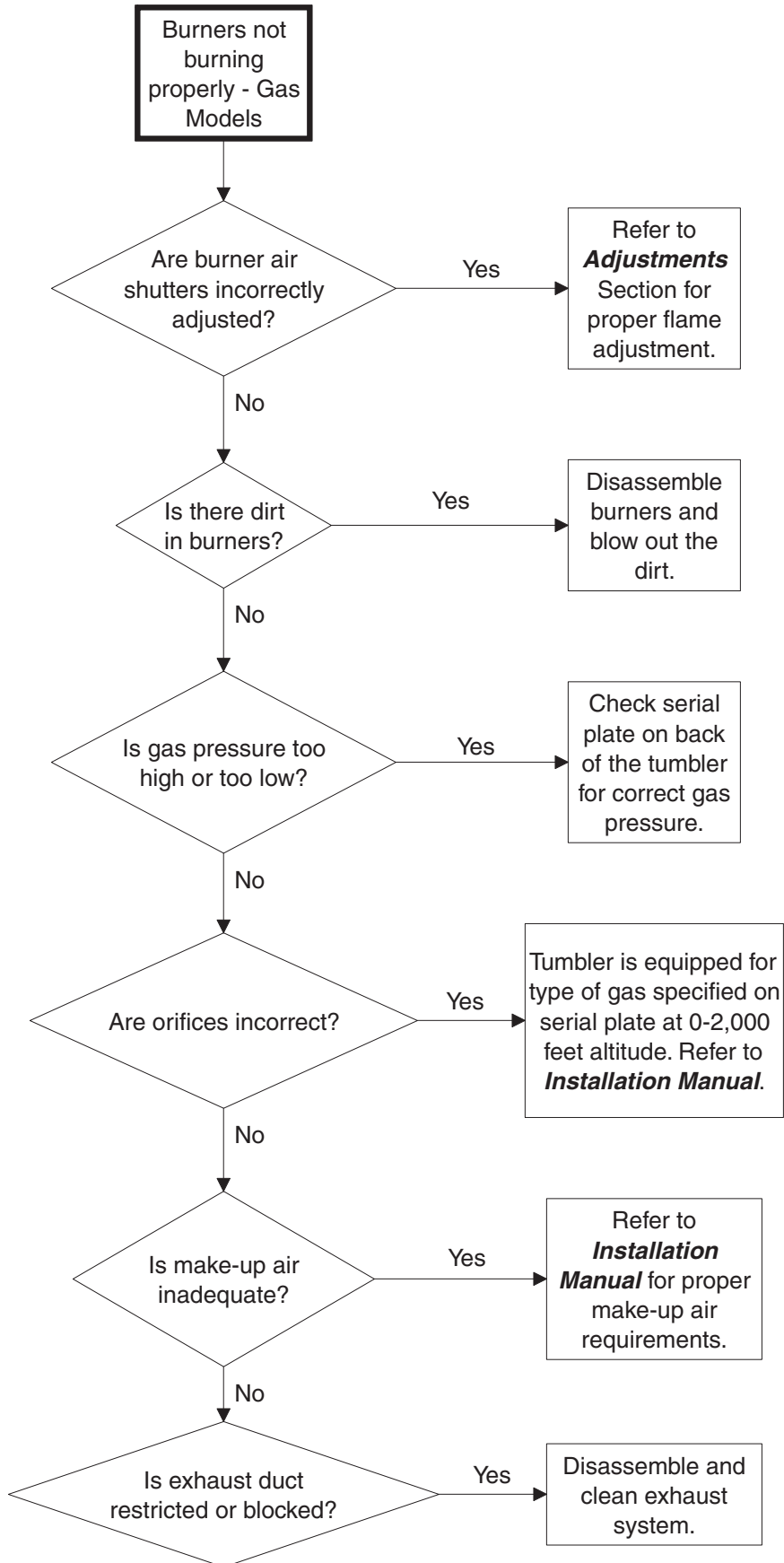
TMB2420S

12. Tumble Dryer Overheating



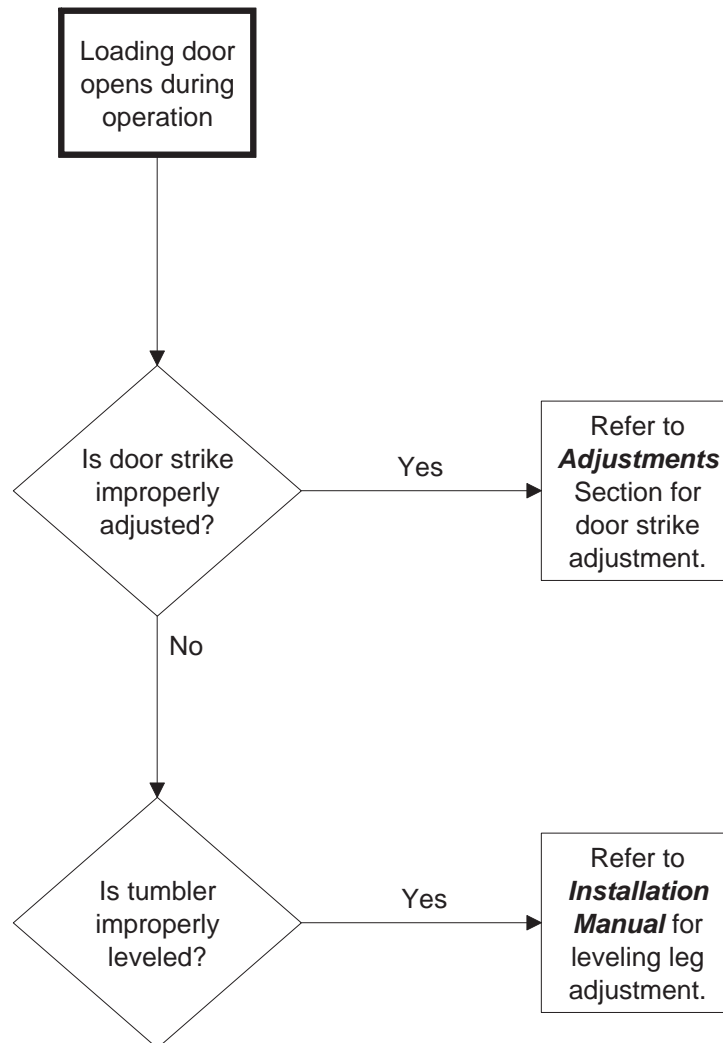
TMB1883S

13. Burners Not Burning Properly — Gas Models



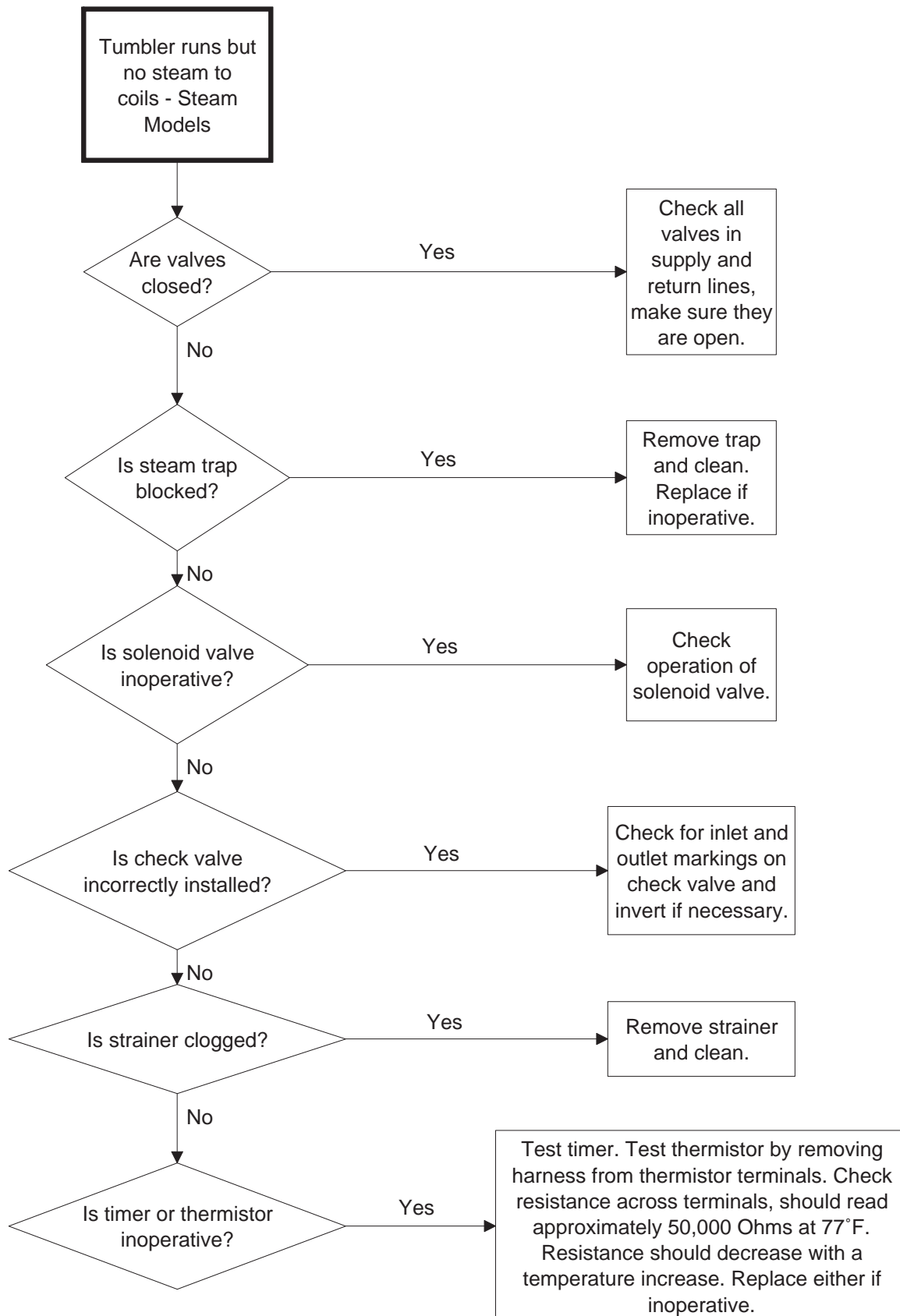
TMB1884S

14. Loading Door Opens During Operation



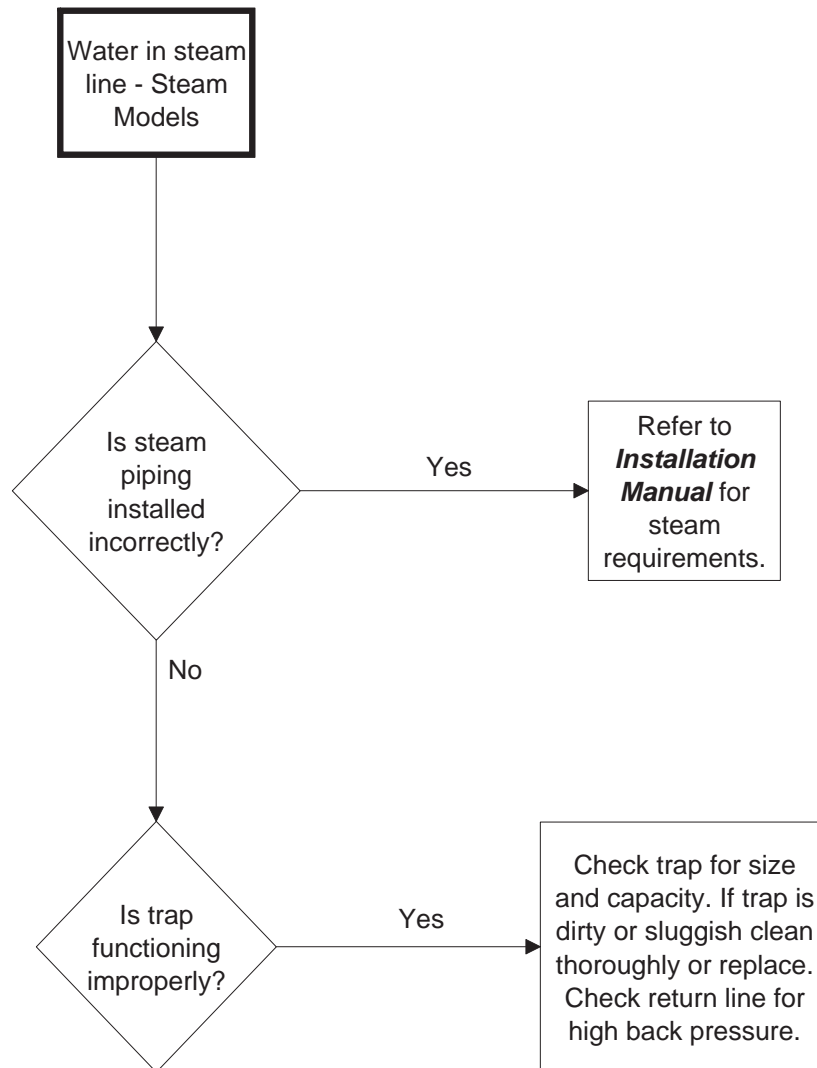
TMB1885S

15. Tumble Dryer Runs But No Steam To Coils — Steam Models



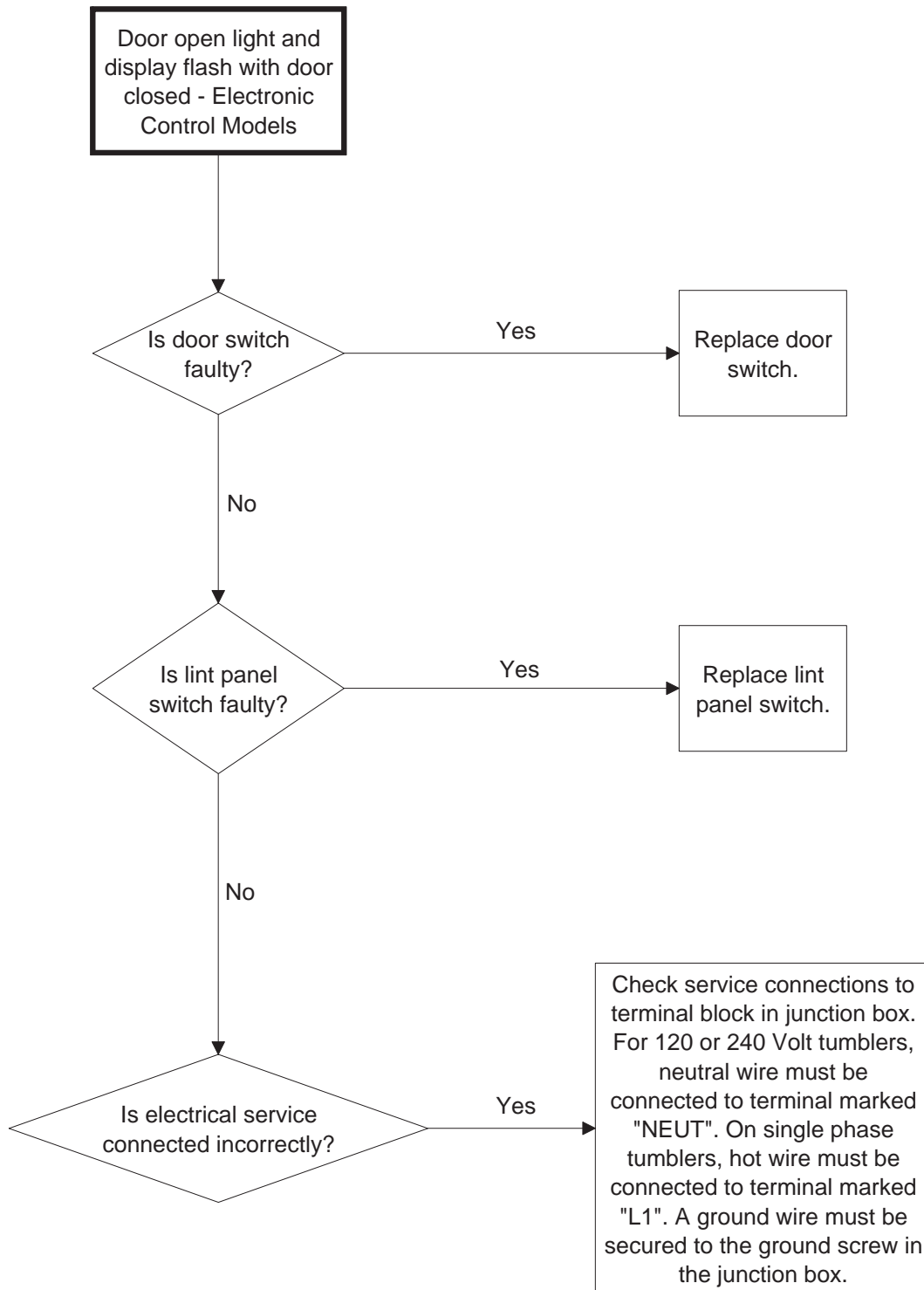
TMB1886S

16. Water In Steam Line — Steam Models



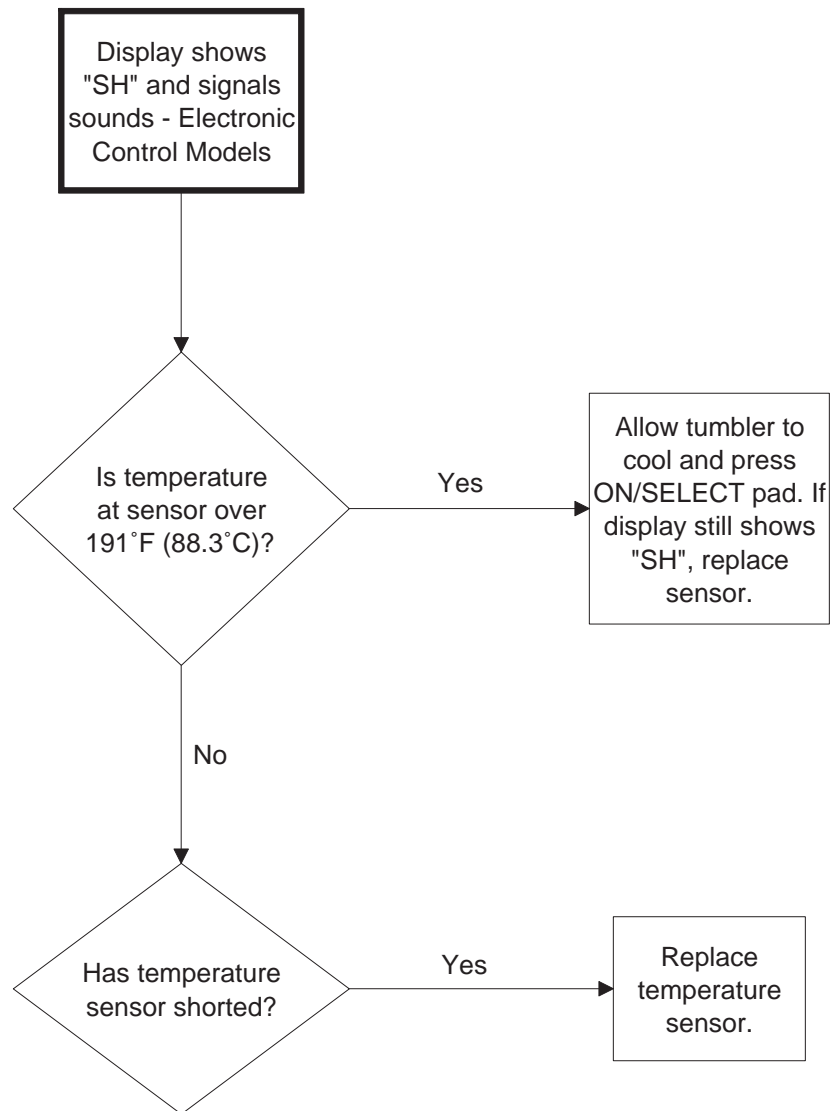
TMB1887S

17. Door Open Light and Display Flash With Door Closed – Electronic Control Models



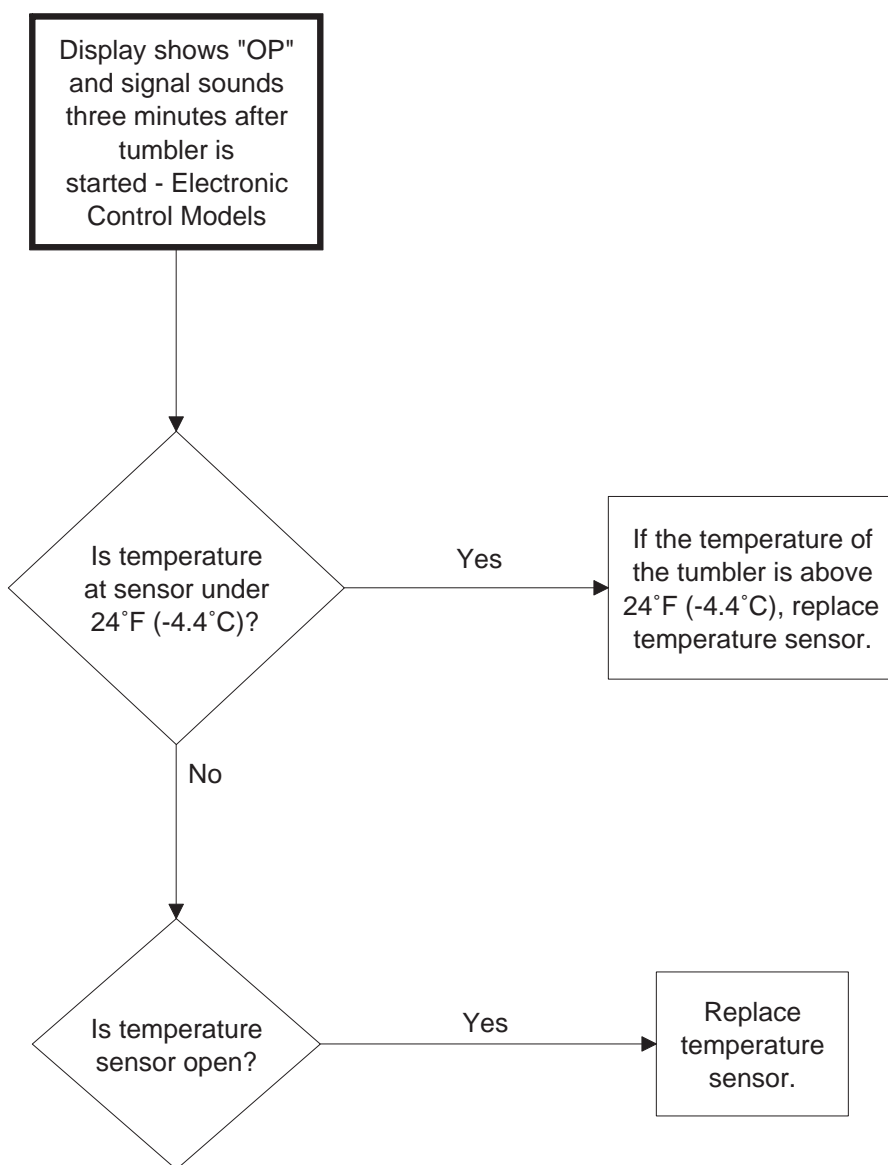
TMB1888S

18. Display Shows “SH” and Signals Sounds – Electronic Control Models



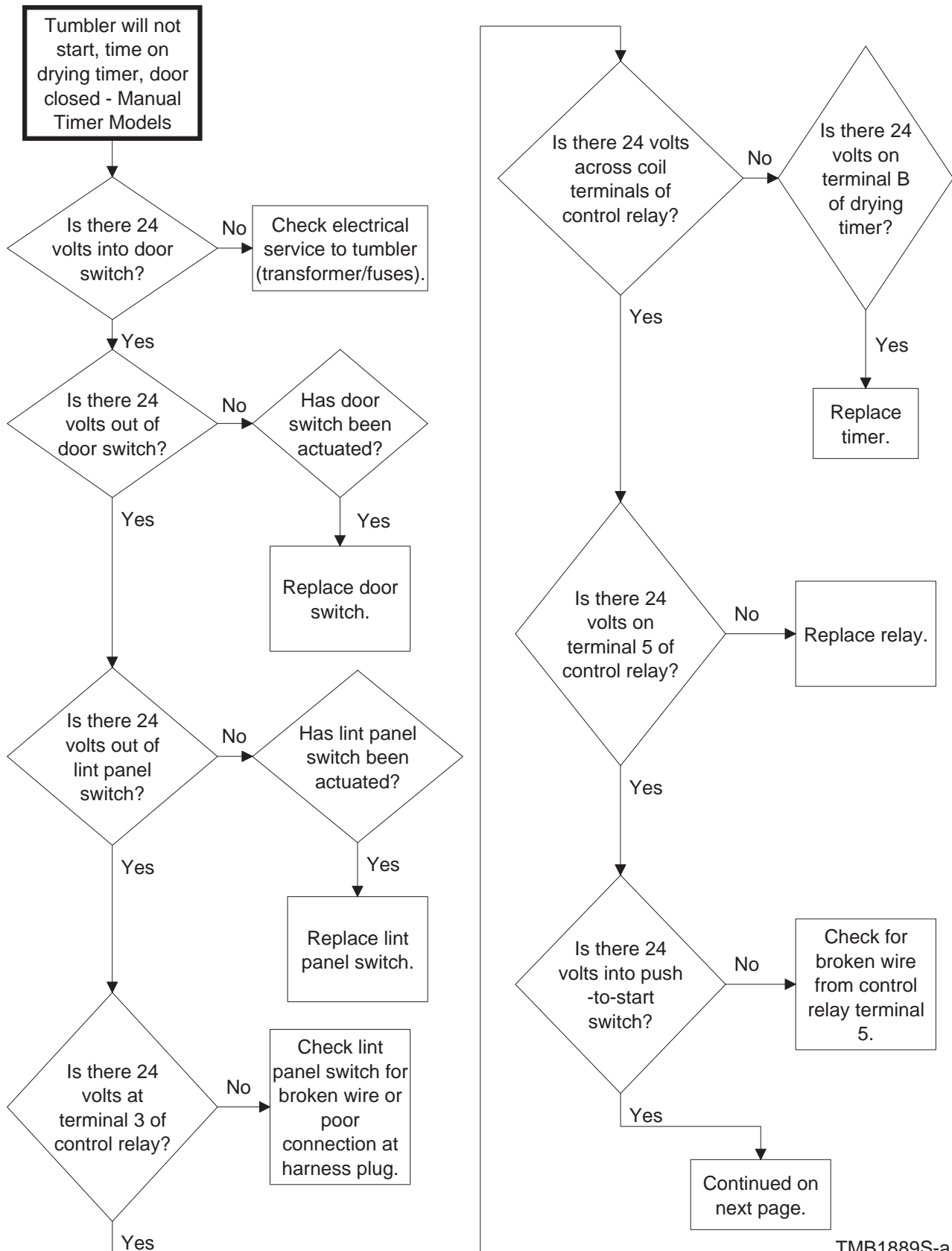
TMB1916S

19. Display Shows "OP" and Signal Sounds Three Minutes After Tumble Dryer is Started – Electronic Control Models



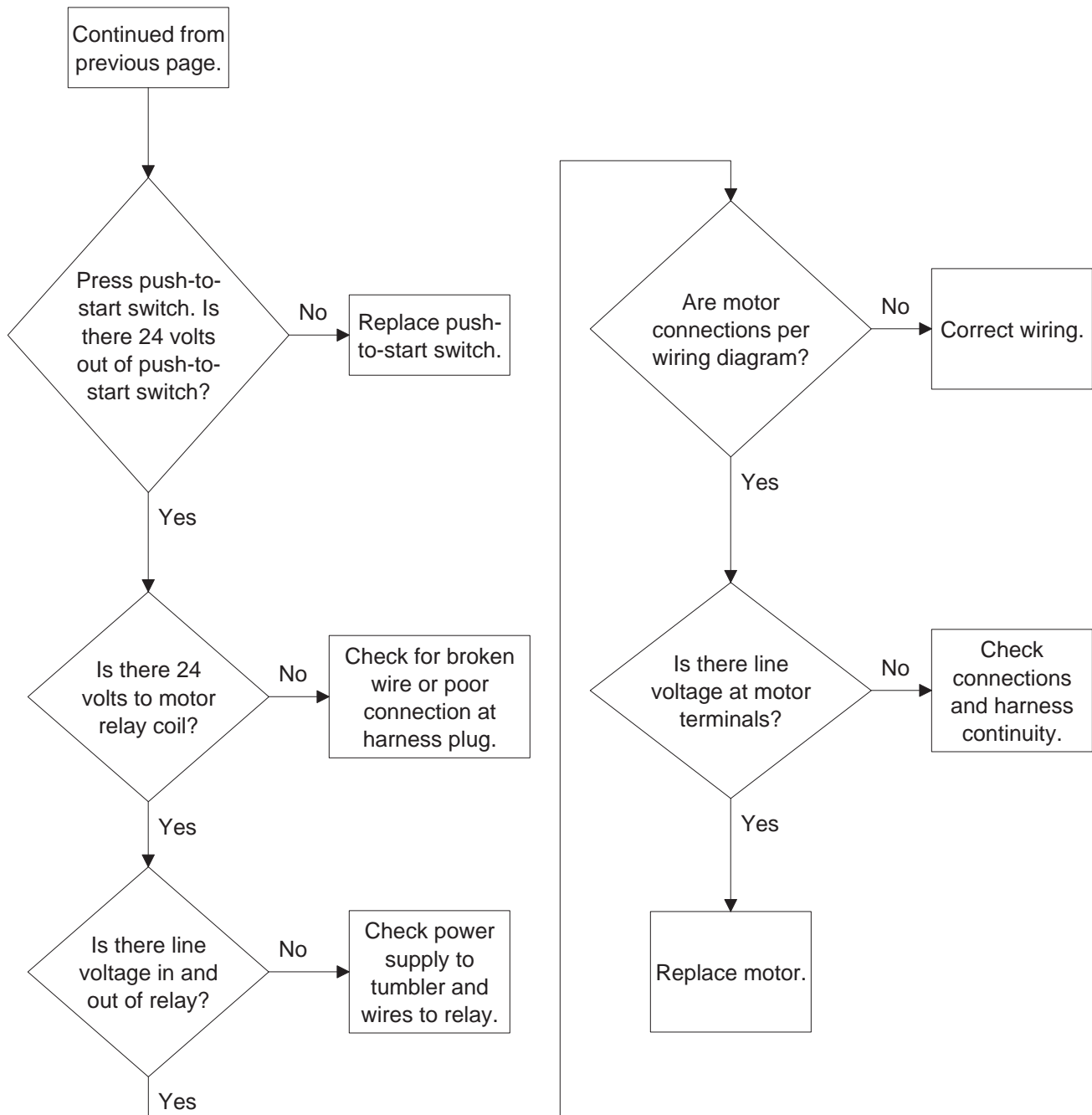
TMB1917S

20. Tumble Dryer Will Not Start, Time on Drying Timer, Door Closed – Manual Timer Models



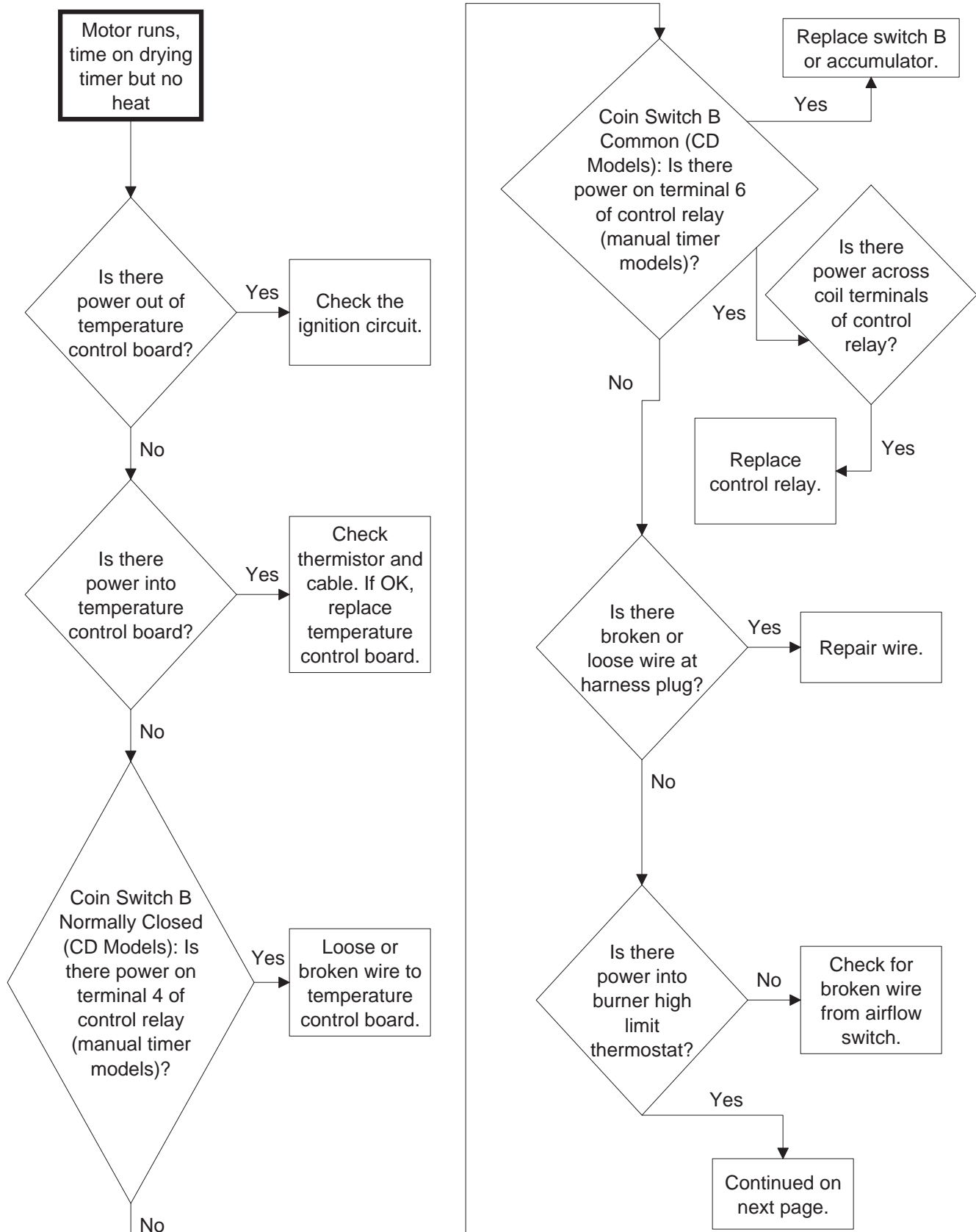
TMB1889S-a

20. Tumble Dryer Will Not Start, Time on Drying Timer, Door Closed – Manual Timer Models (continued)



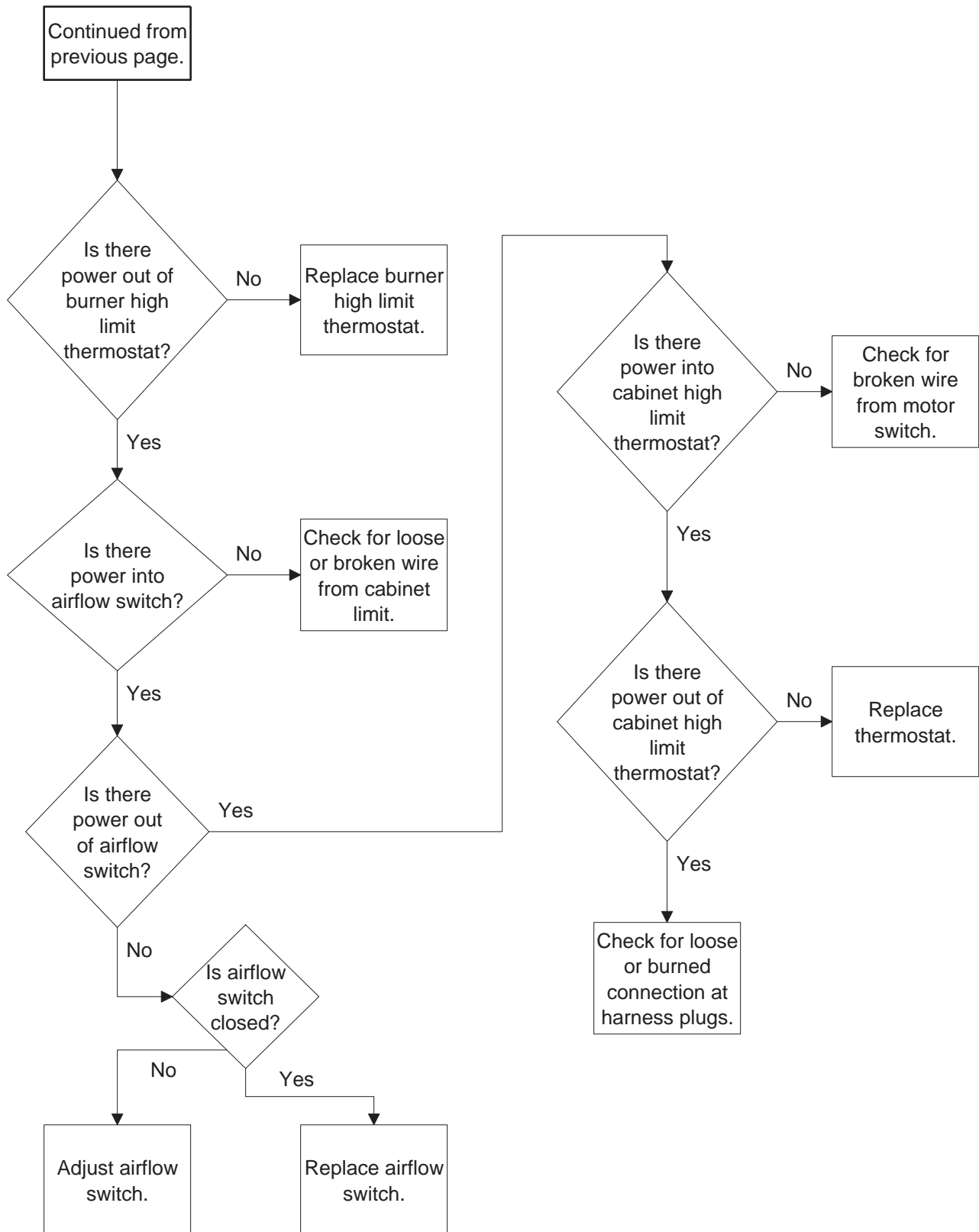
TMB1889S-b

21. Motor Runs, Time on Drying Timer But No Heat

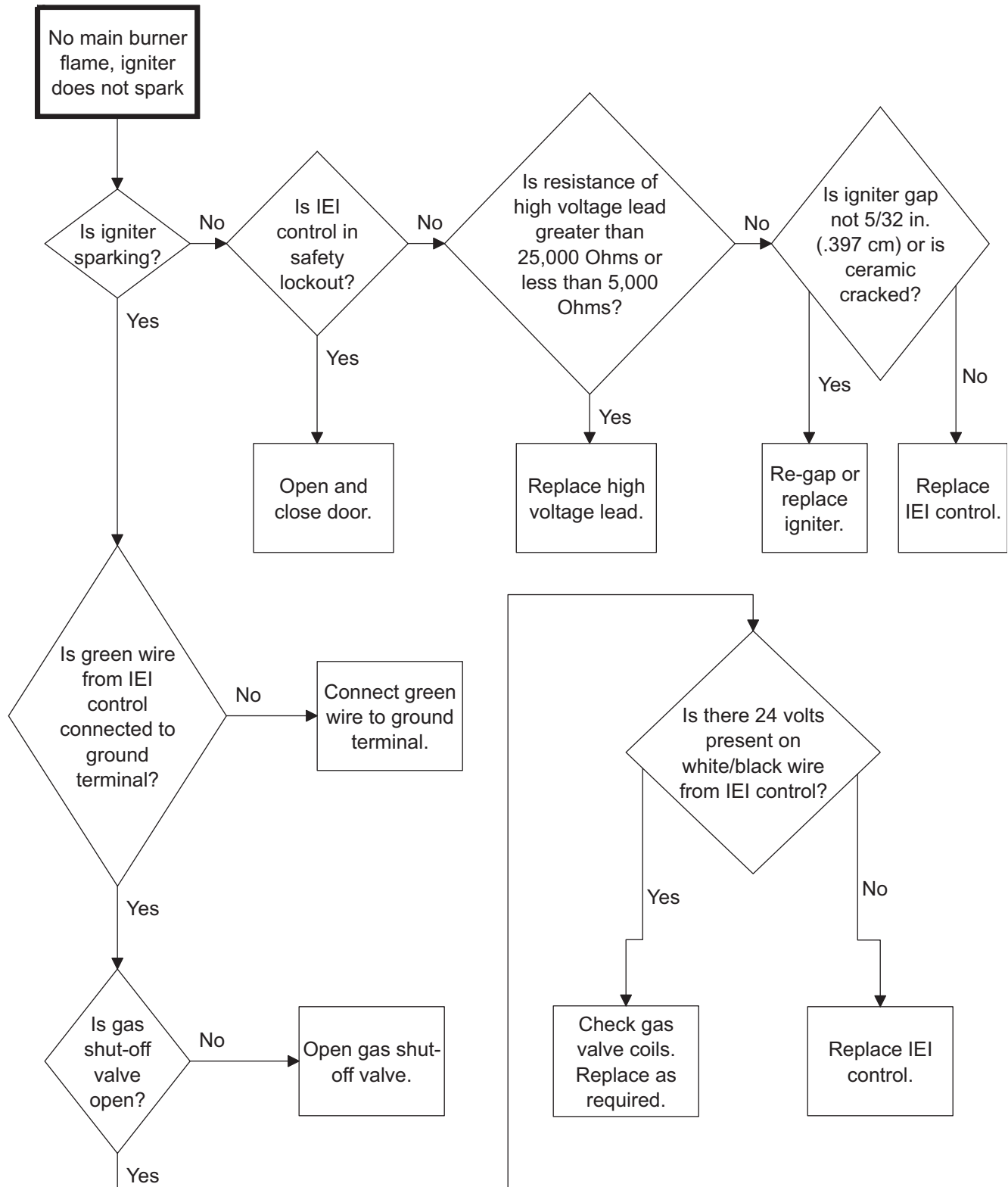


TMB1890S-a

21. Motor Runs, Time on Drying Timer But No Heat (continued)



22. No Main Burner Flame, Igniter Does Not Spark

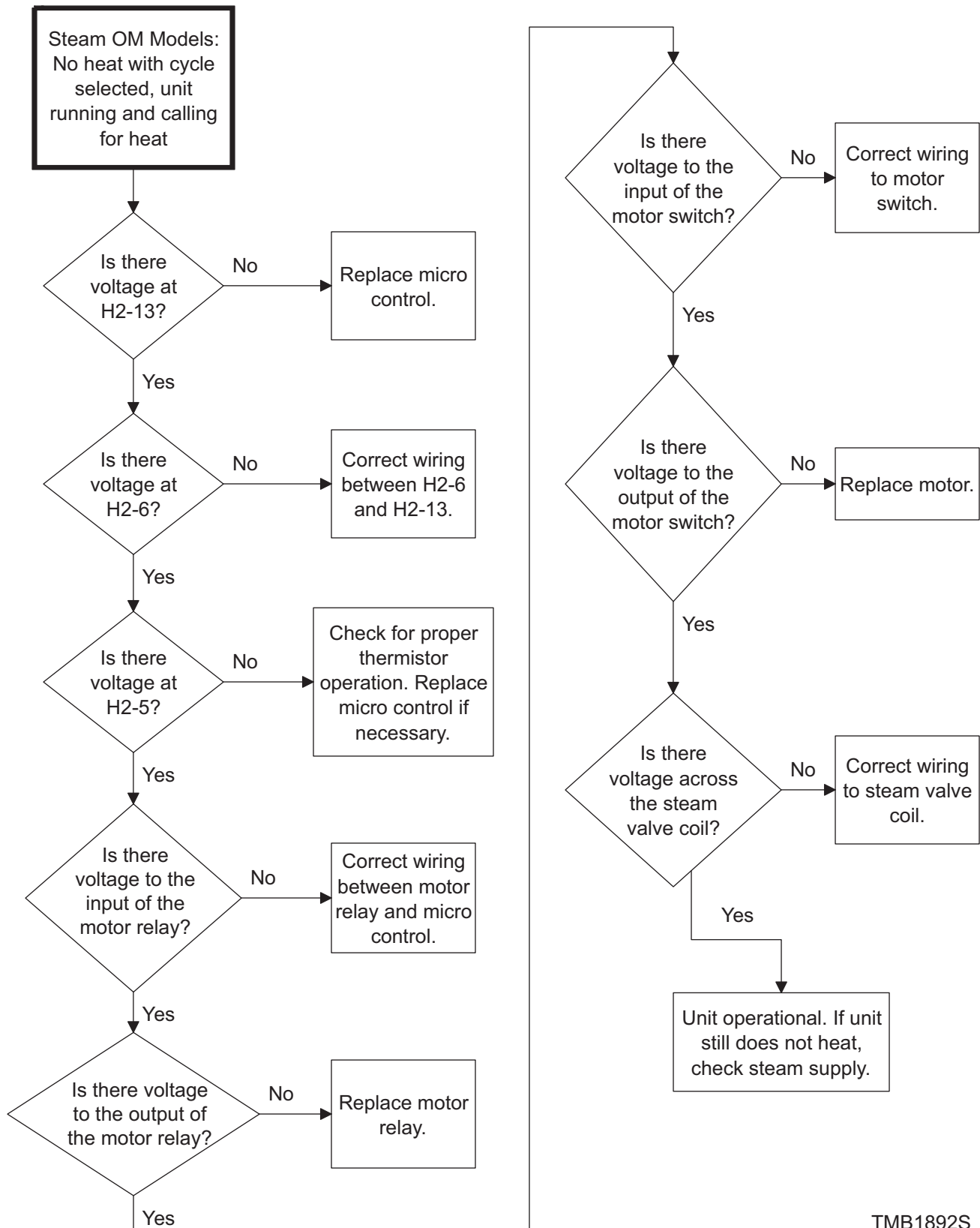


TMB1891S

23. Steam OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat

120 Volt/60 Hertz/1 Phase and 208-240 Volt/60 Hertz/1 Phase Nonreversing

460-480 Volt/60 Hertz/3 Phase and 208-240 Volt/60 Hertz/3 Phase Reversing and Nonreversing



TMB1892S

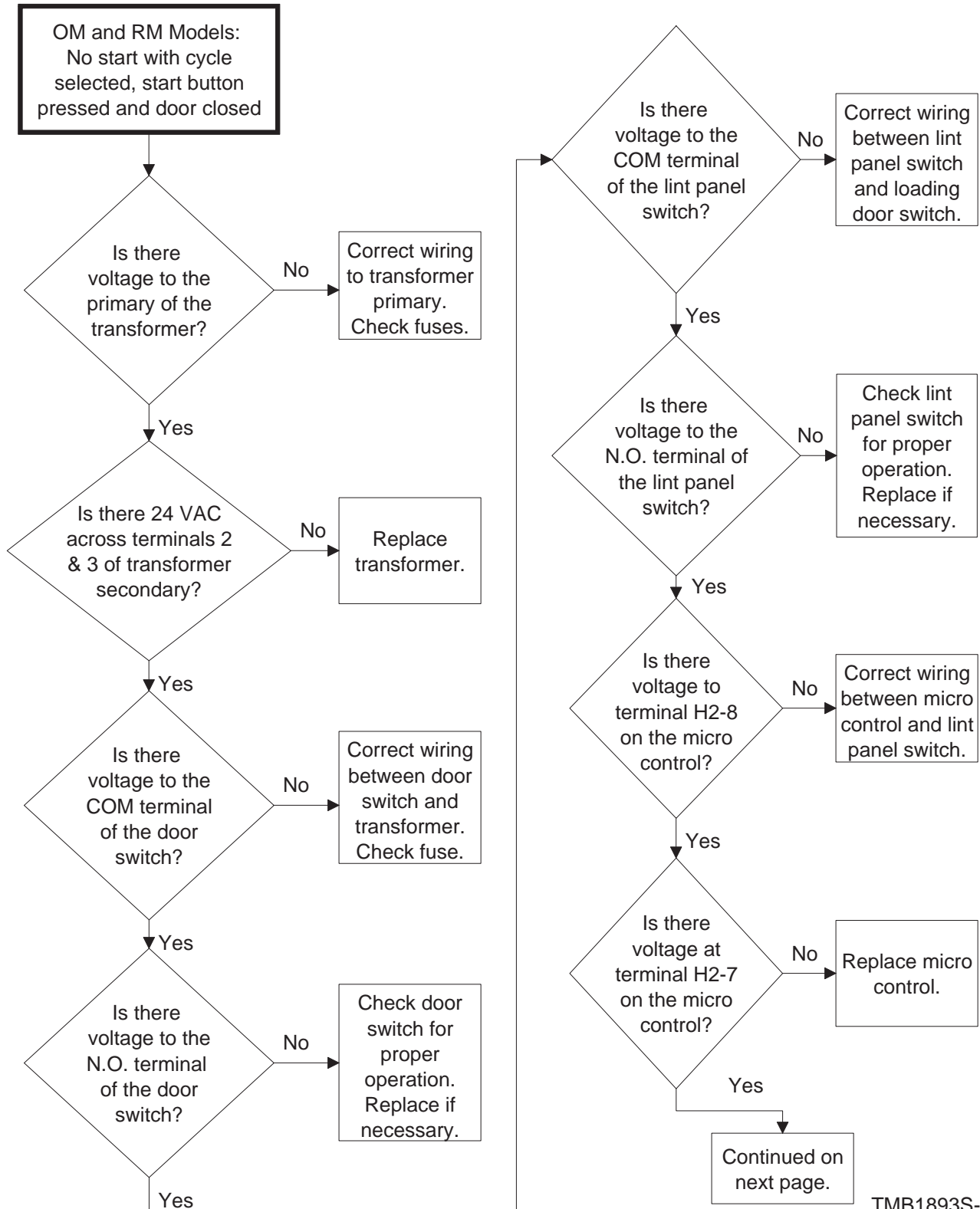
24. OM and RM Control: No Start With Cycle Selected, Start Button Pressed and Door Closed

120 Volt/60 Hertz/1 Phase Gas and Steam Nonreversing

208-240 Volt/60 Hertz/1 or 3 Phase Steam Nonreversing

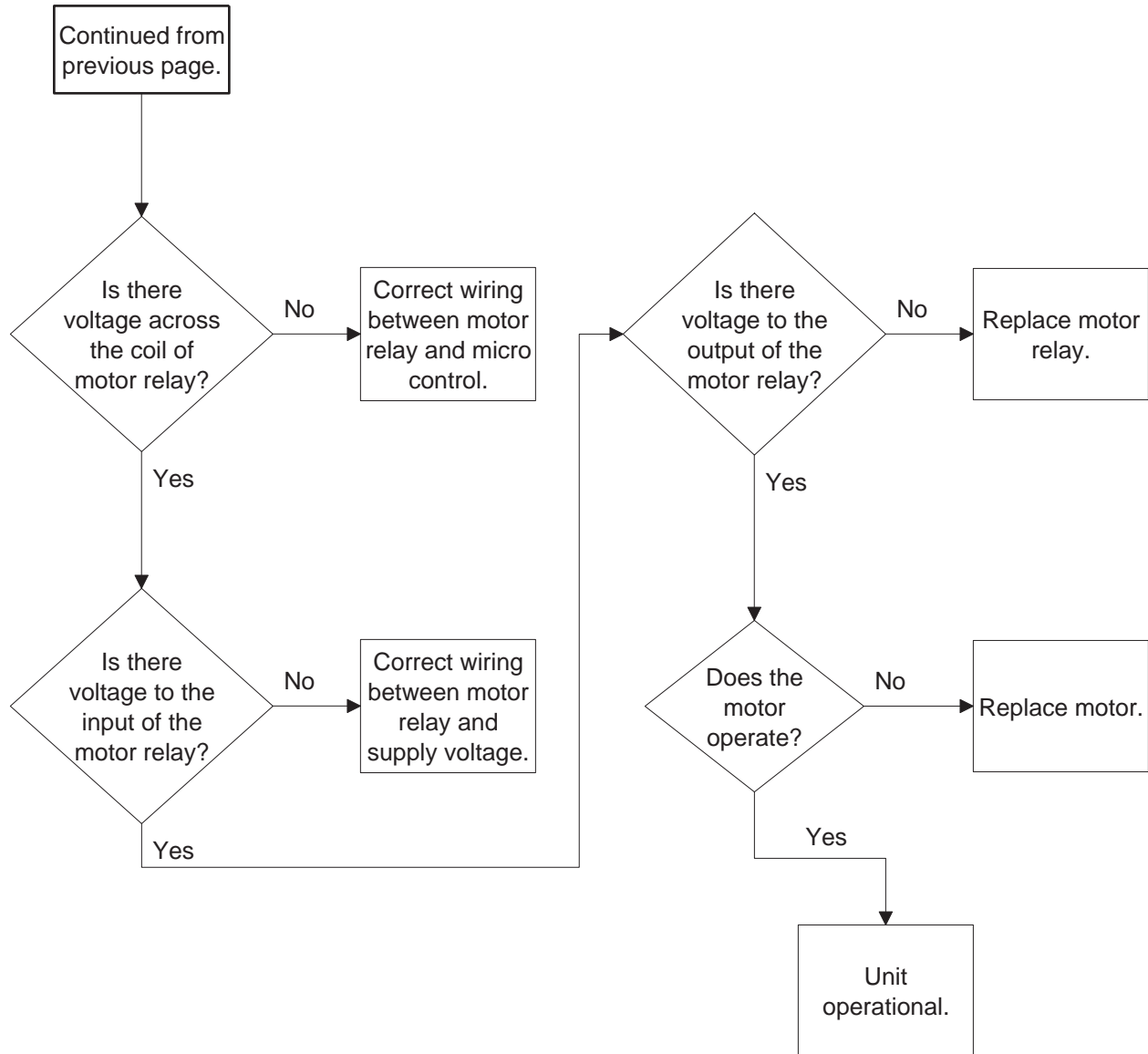
208-240 Volt/60 Hertz/3 Phase Electric Nonreversing

460-480 Volt/60 Hertz/3 Phase Gas, Electric and Steam Nonreversing



TMB1893S-a

24. OM and RM Control: No Start With Cycle Selected, Start Button Pressed and Door Closed (continued)



TMB1893S-b

25. OM Control: No Display After Selecting One of the ON/SELECT Keys

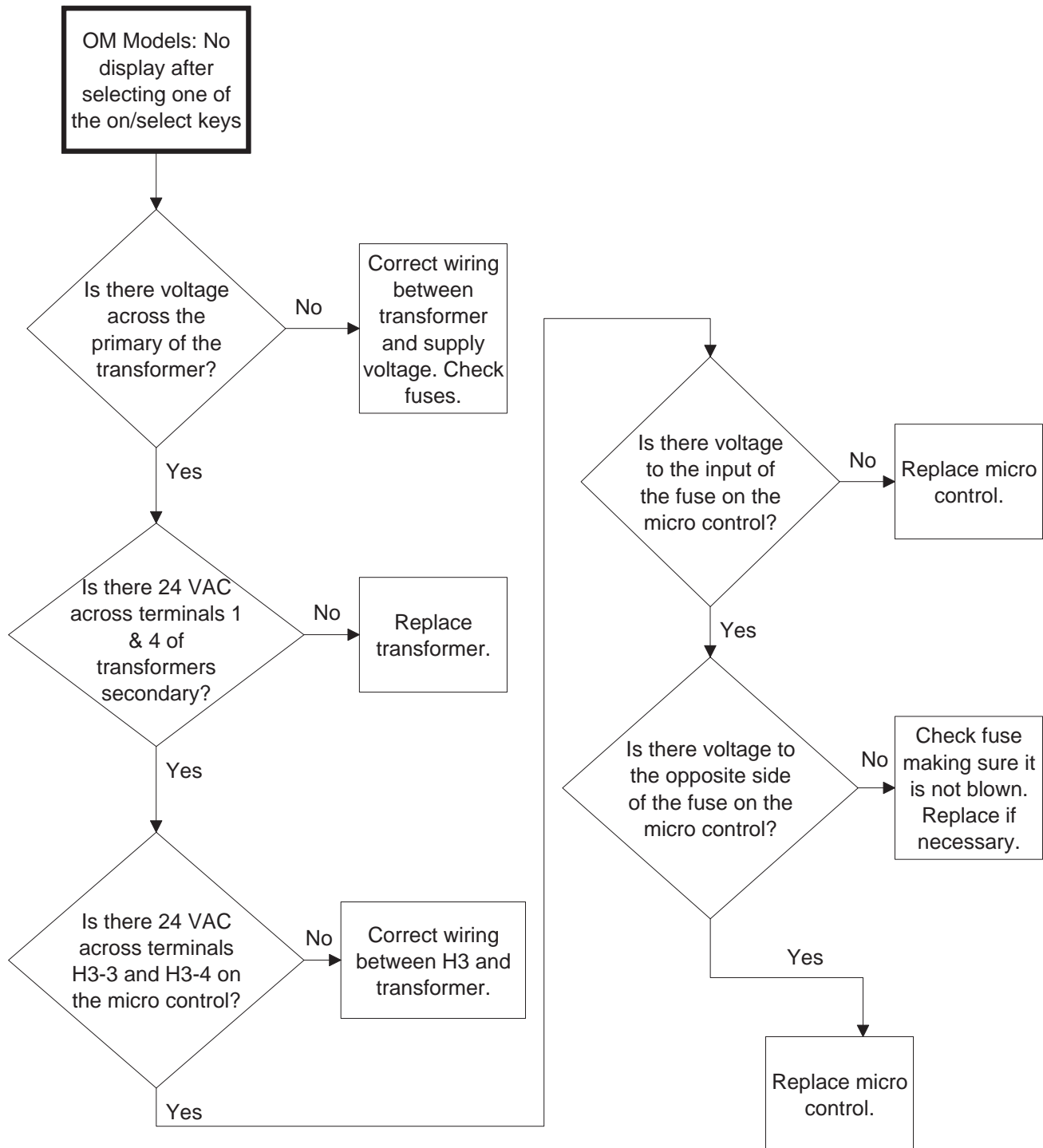
120 Volt/60 Hertz/1 Phase Gas and Steam Nonreversing

208-240 Volt/60 Hertz/1 Phase Gas and Steam Nonreversing

208-240 Volt/60 Hertz/3 Phase Gas and Steam Reversing/Nonreversing

208-240 Volt/60 Hertz/3 Phase Electric Reversing/Nonreversing

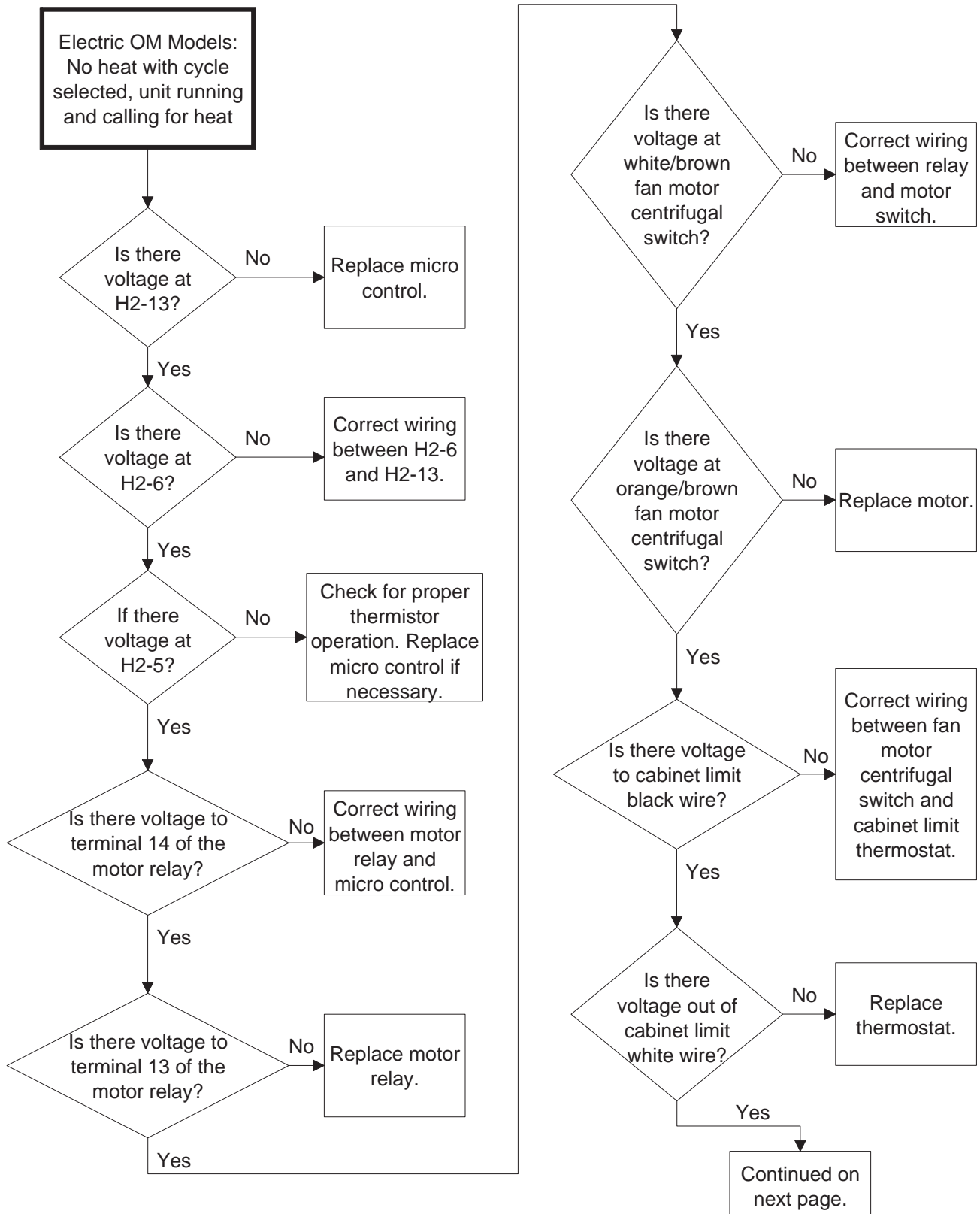
460-480 Volt/60 Hertz/3 Phase Gas, Electric and Steam Reversing/Nonreversing



TMB1894S

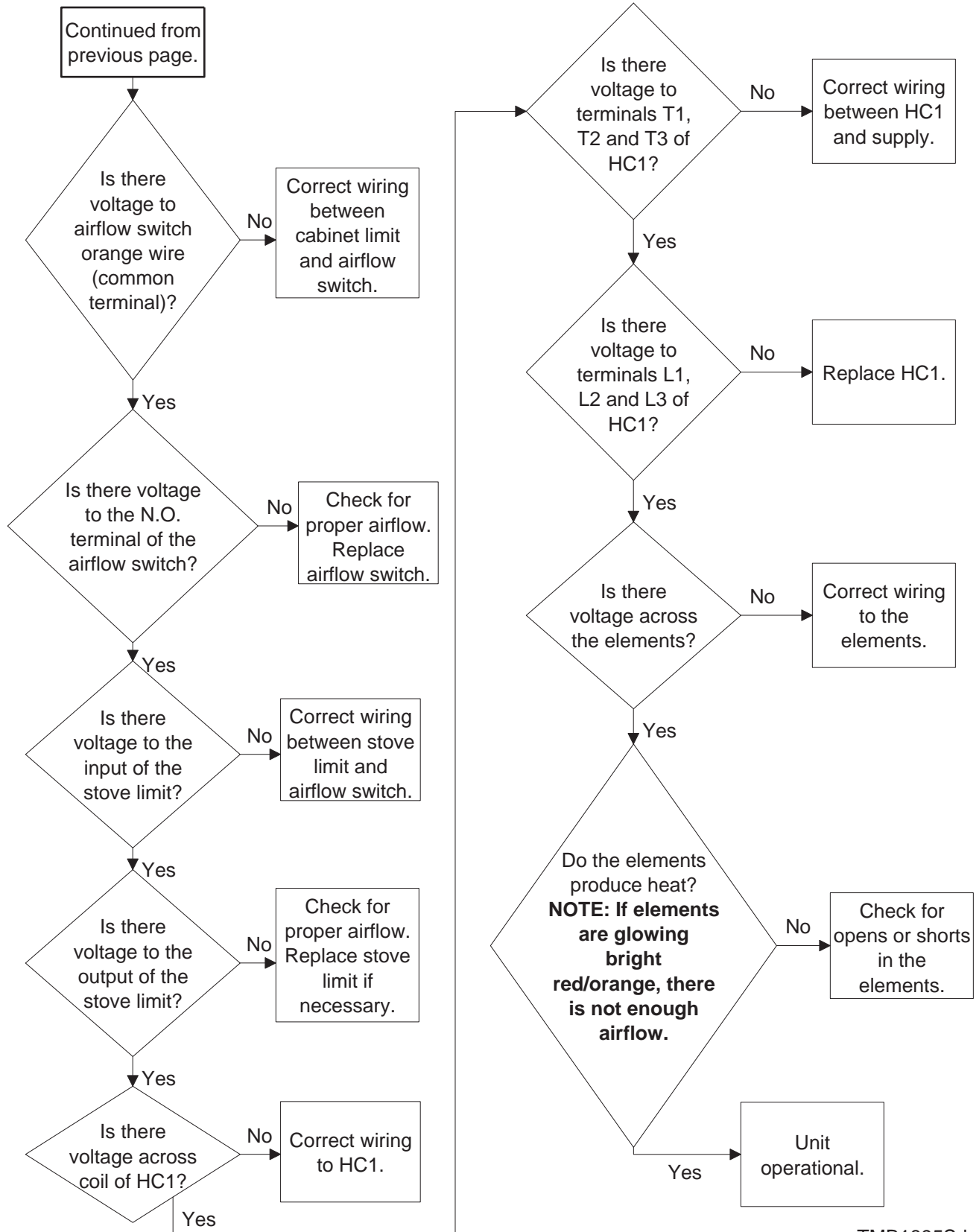
26. Electric OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat

460-480 Volt/60 Hertz/3 Phase and 208-240 Volt/60 Hertz/3 Phase Reversing and Nonreversing



TMB1895S-a

26. Electric OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat (continued)

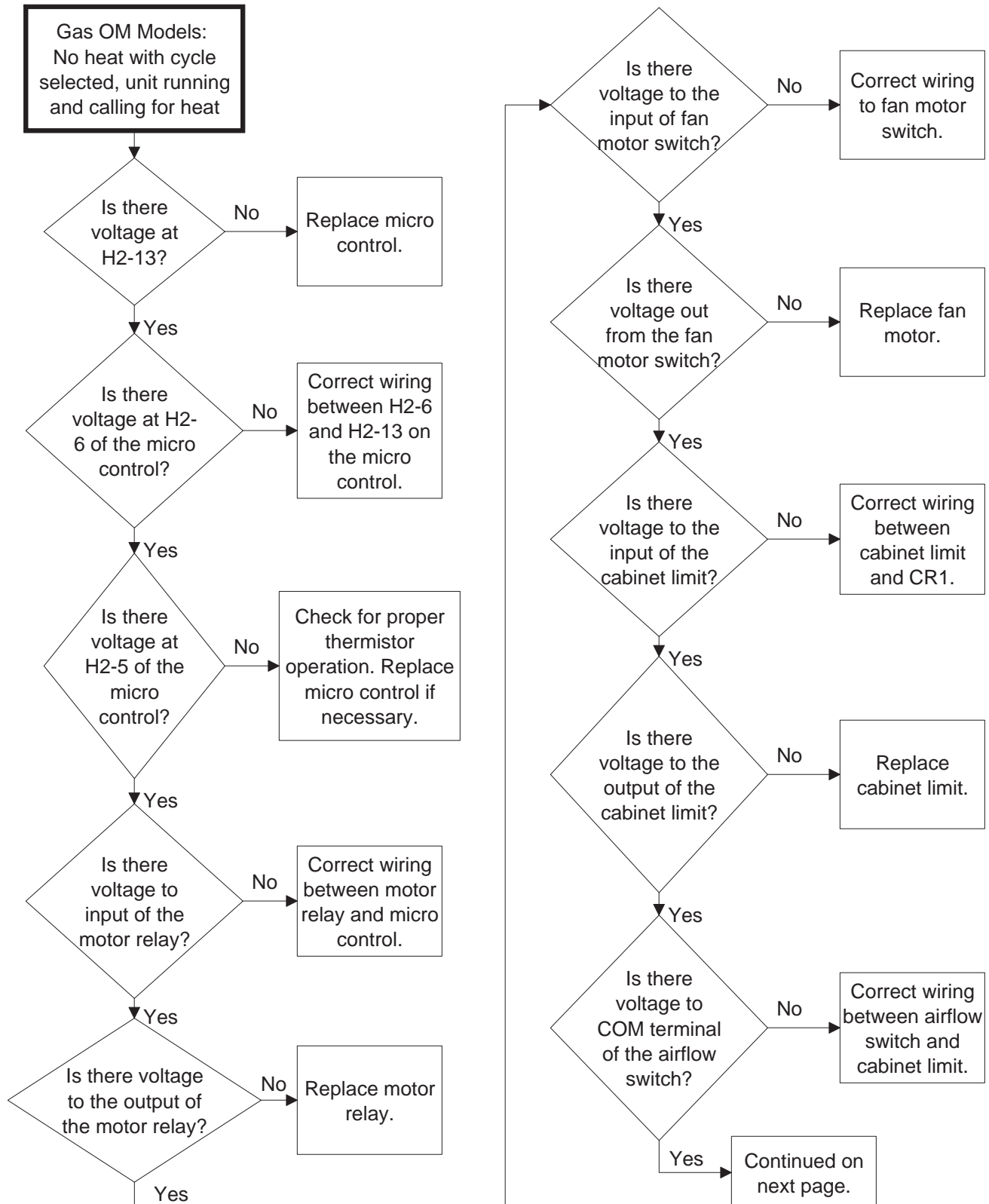


TMB1895S-b

27. Gas OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat

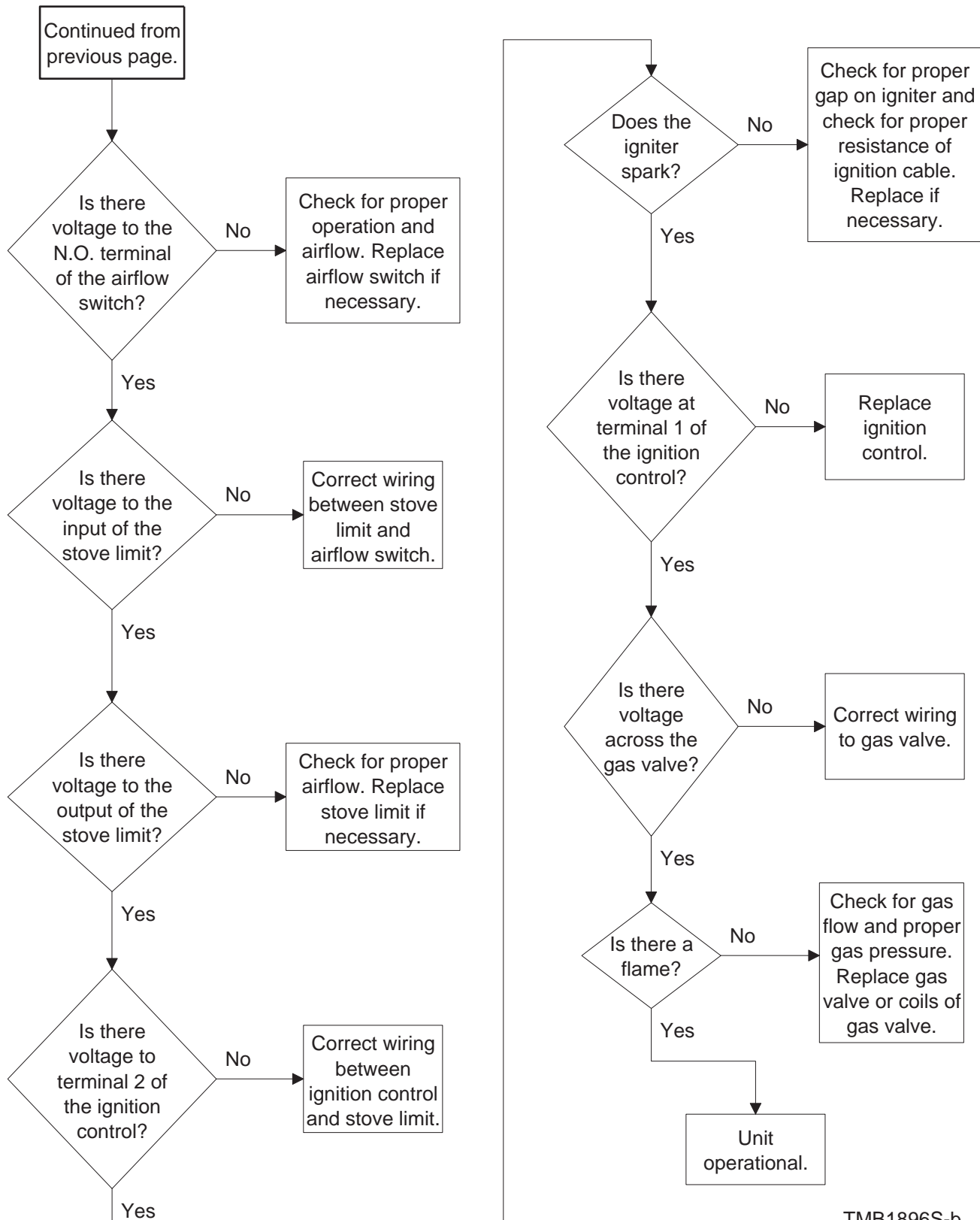
120 Volt/60 Hertz/1 Phase and 208-240 Volt/60 Hertz/1 Phase Nonreversing

460-480 Volt/60 Hertz/3 Phase and 208-240 Volt/60 Hertz/3 Phase Reversing and Nonreversing



TMB1896S-a

27. Gas OM Control: No Heat With Cycle Selected, Unit Running and Calling For Heat (continued)

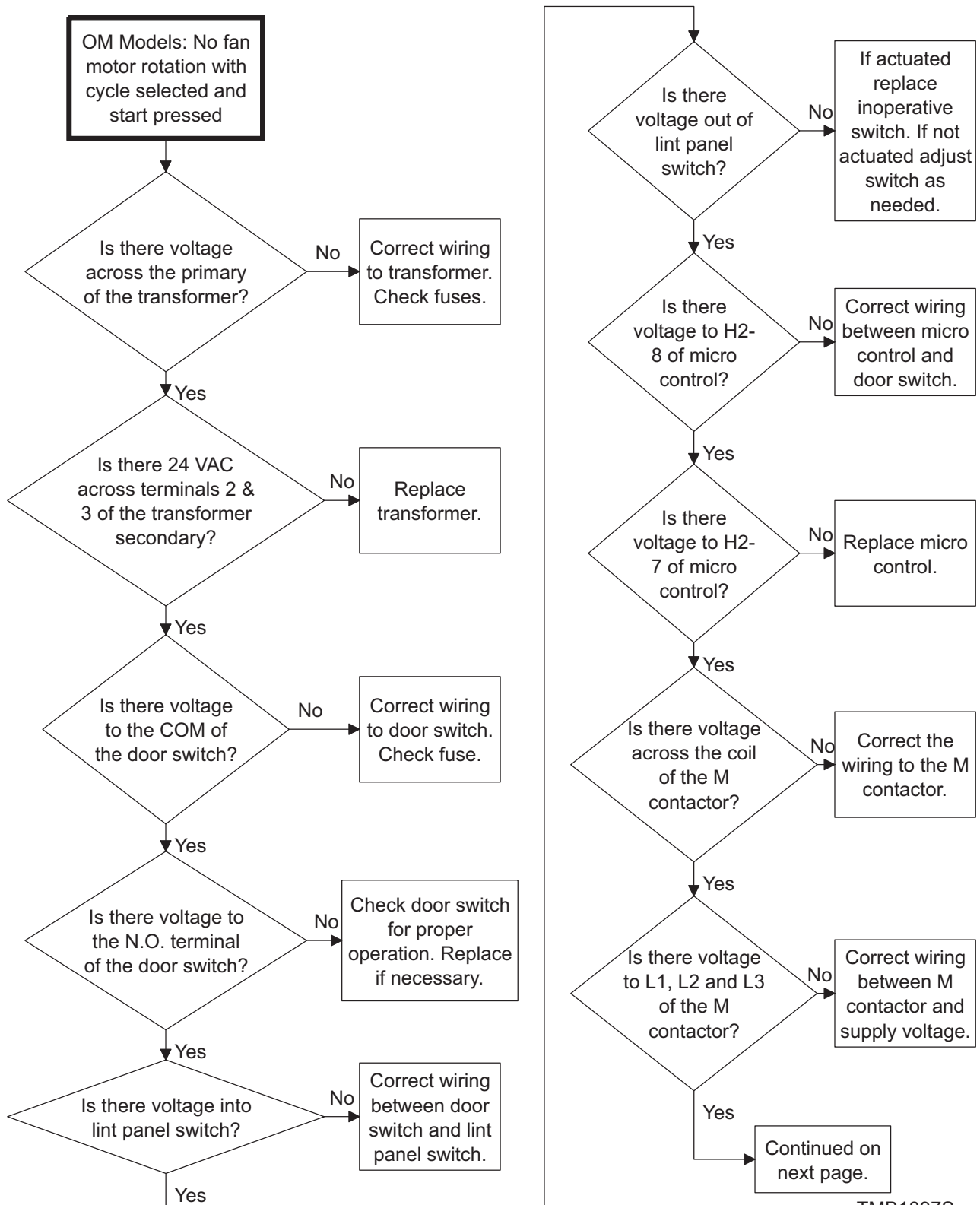


TMB1896S-b

28. OM Control: No Fan Motor Rotation With Cycle Selected and Start Pressed

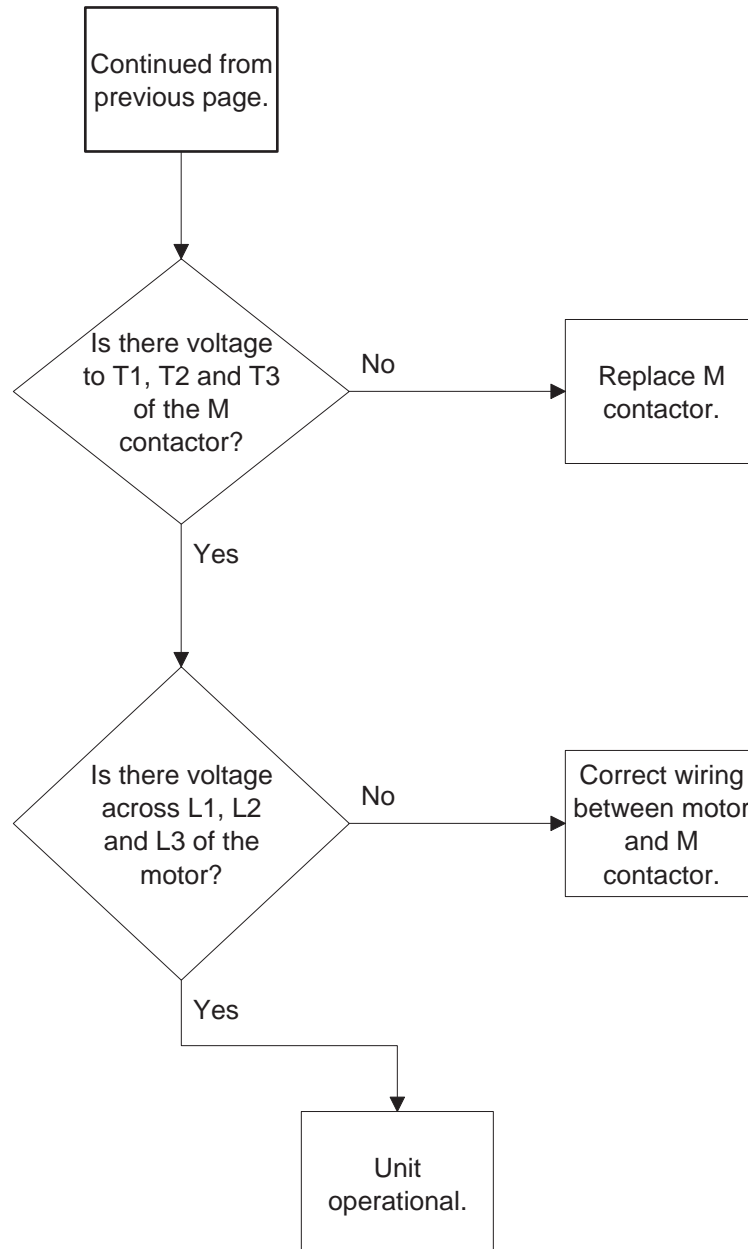
208-240 Volt/60 Hertz/3 Phase and 480 Volt/60 Hertz/3 Phase Electric Reversing Models

208-240 Volt/60 Hertz/3 Phase and 460-480 Volt/60 Hertz/3 Phase Gas Reversing and Steam Models



TMB1897S-a

28. OM Control: No Fan Motor Rotation With Cycle Selected and Start Pressed (continued)

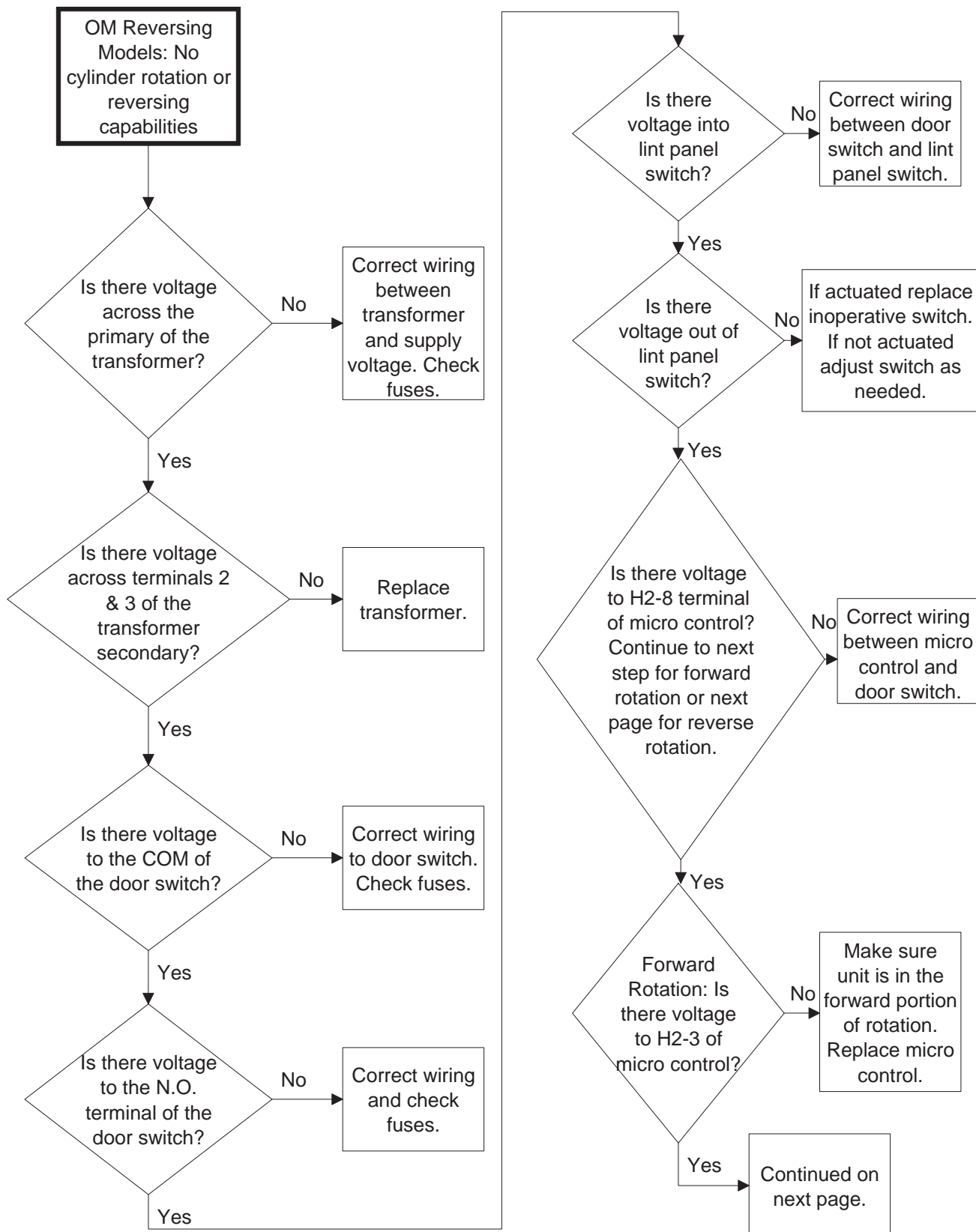


TMB1897S-b

29. OM Reversing Control: No Cylinder Rotation or Reversing Capabilities

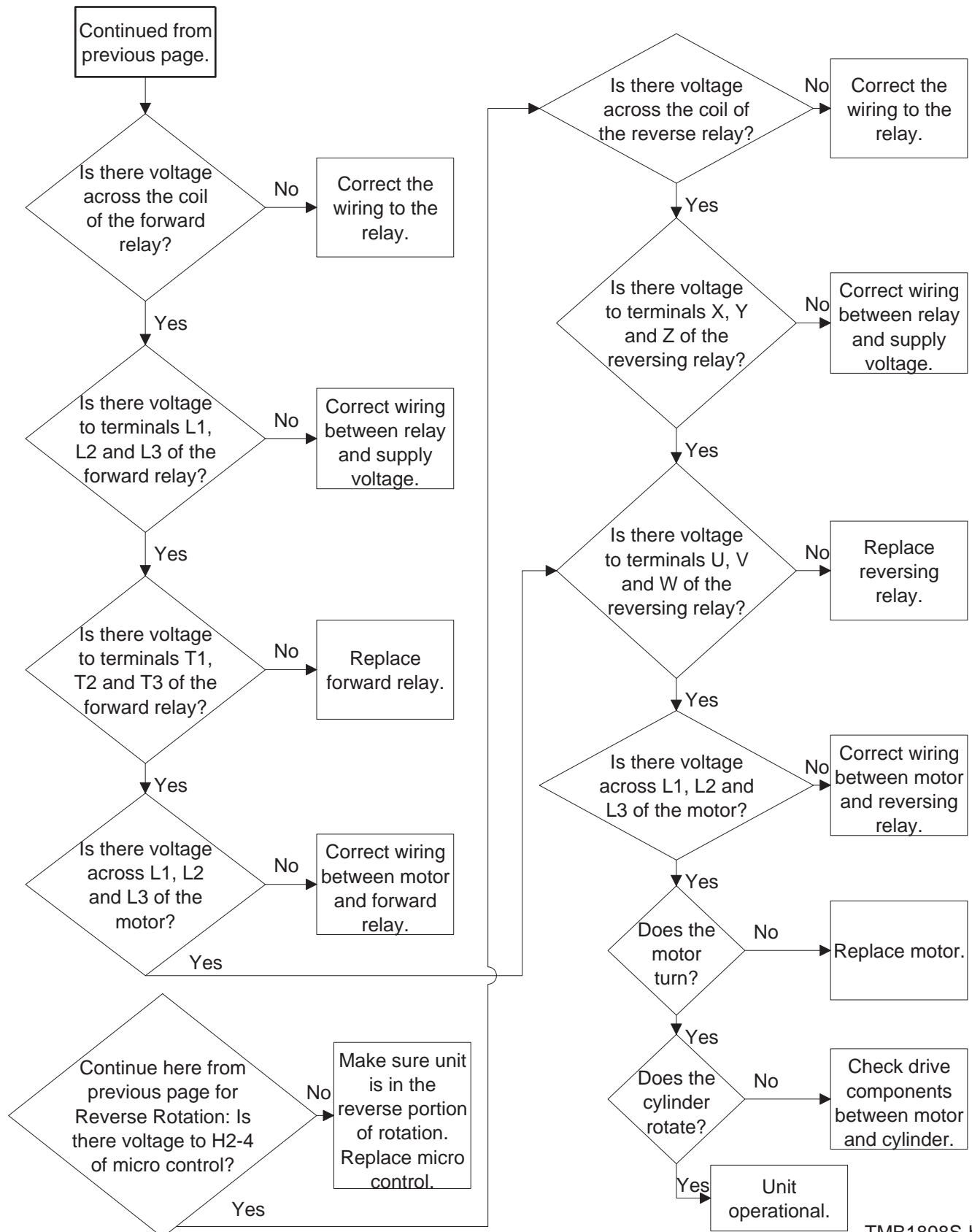
208-240 Volt/60 Hertz/3 Phase and 480 Volt/60 Hertz/3 Phase Electric Models

208-240 Volt/60 Hertz/3 Phase and 460-480 Volt/60 Hertz/3 Phase Gas and Steam Models



TMB1898S-a

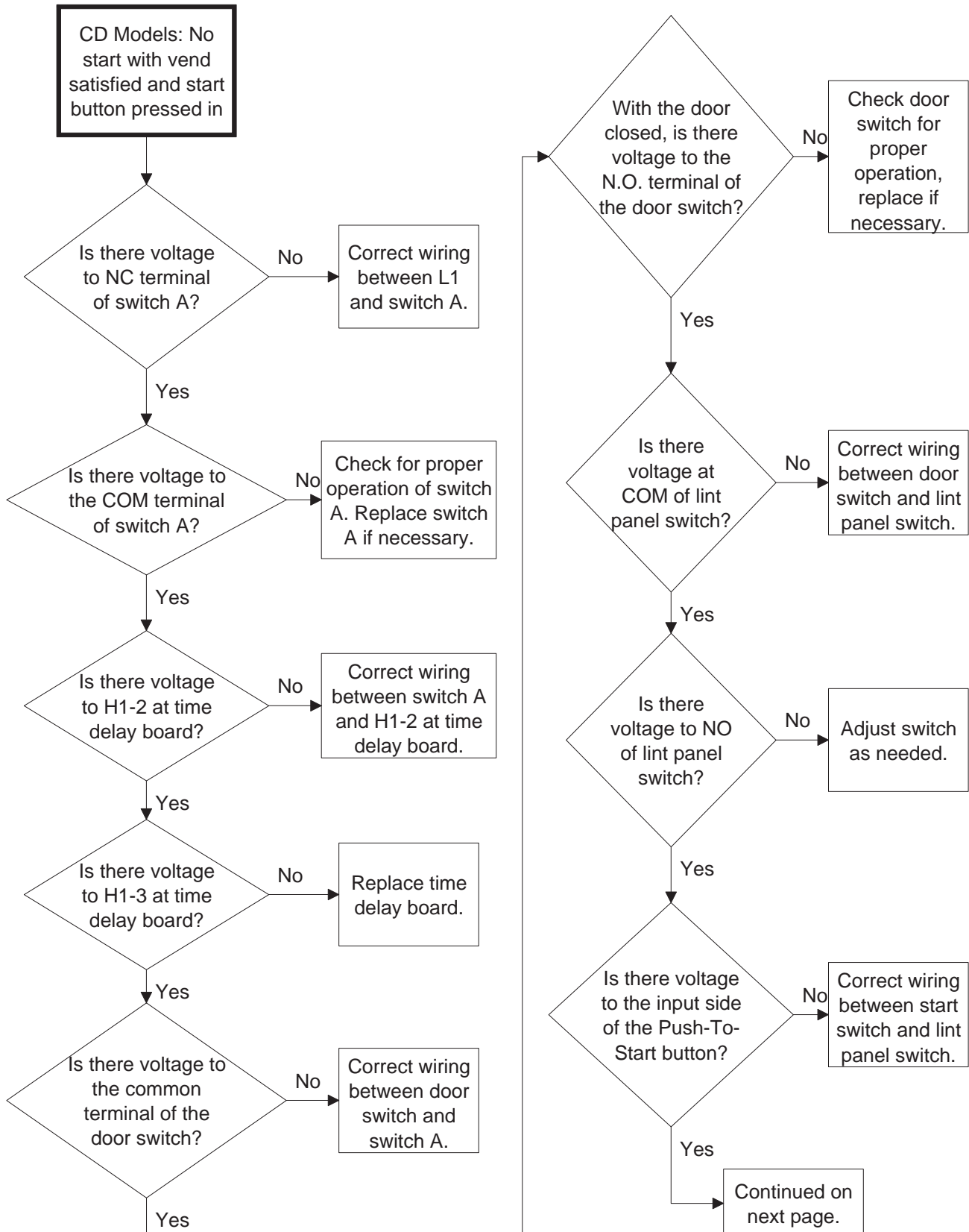
29. OM Reversing Control: No Cylinder Rotation or Reversing Capabilities (continued)



TMB1898S-b

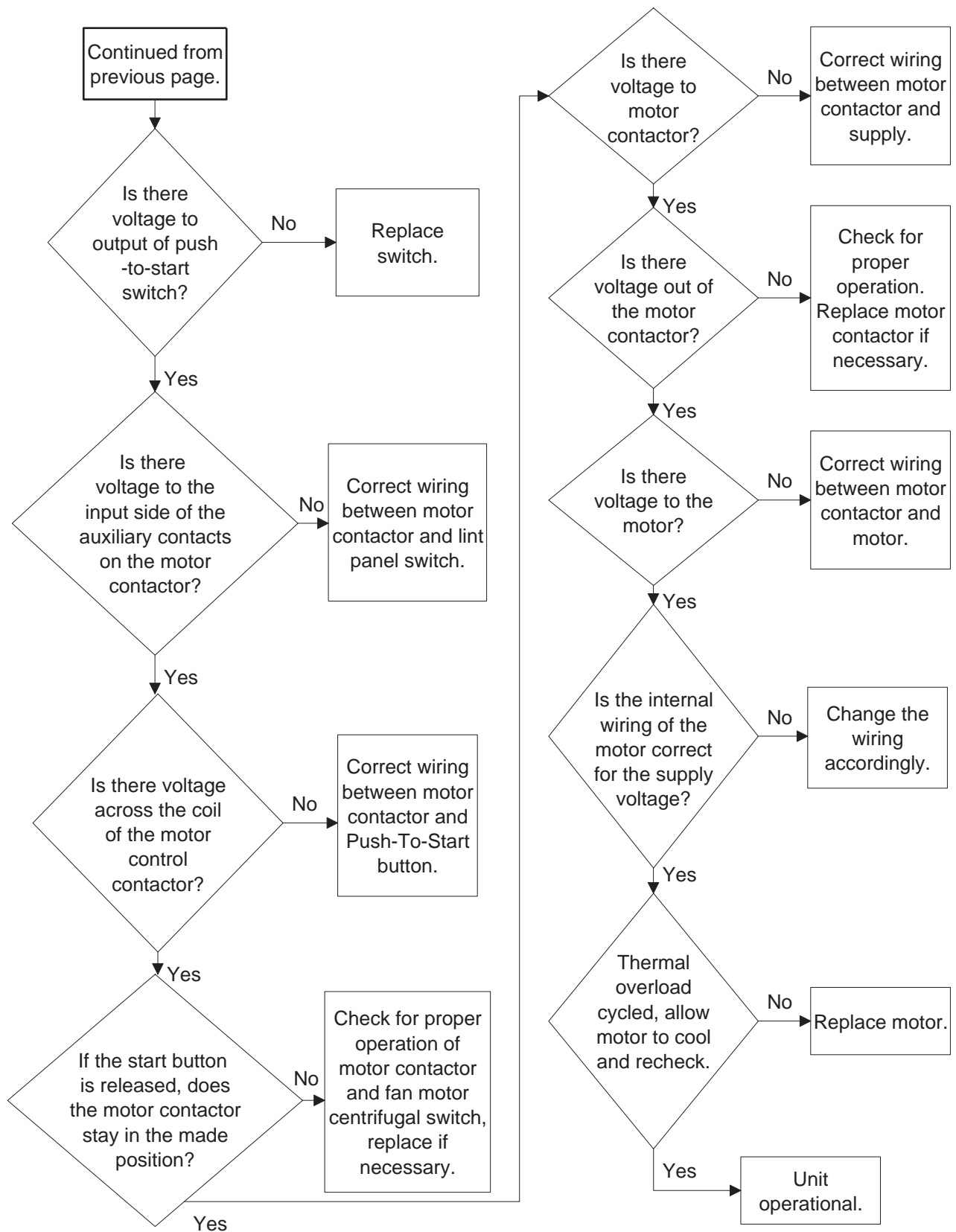
30. CD Control: No Start With Vend Satisfied and Start Button Pressed In

NOTE: All voltage checks are referenced to neutral unless stated otherwise.



TMB1899S-a

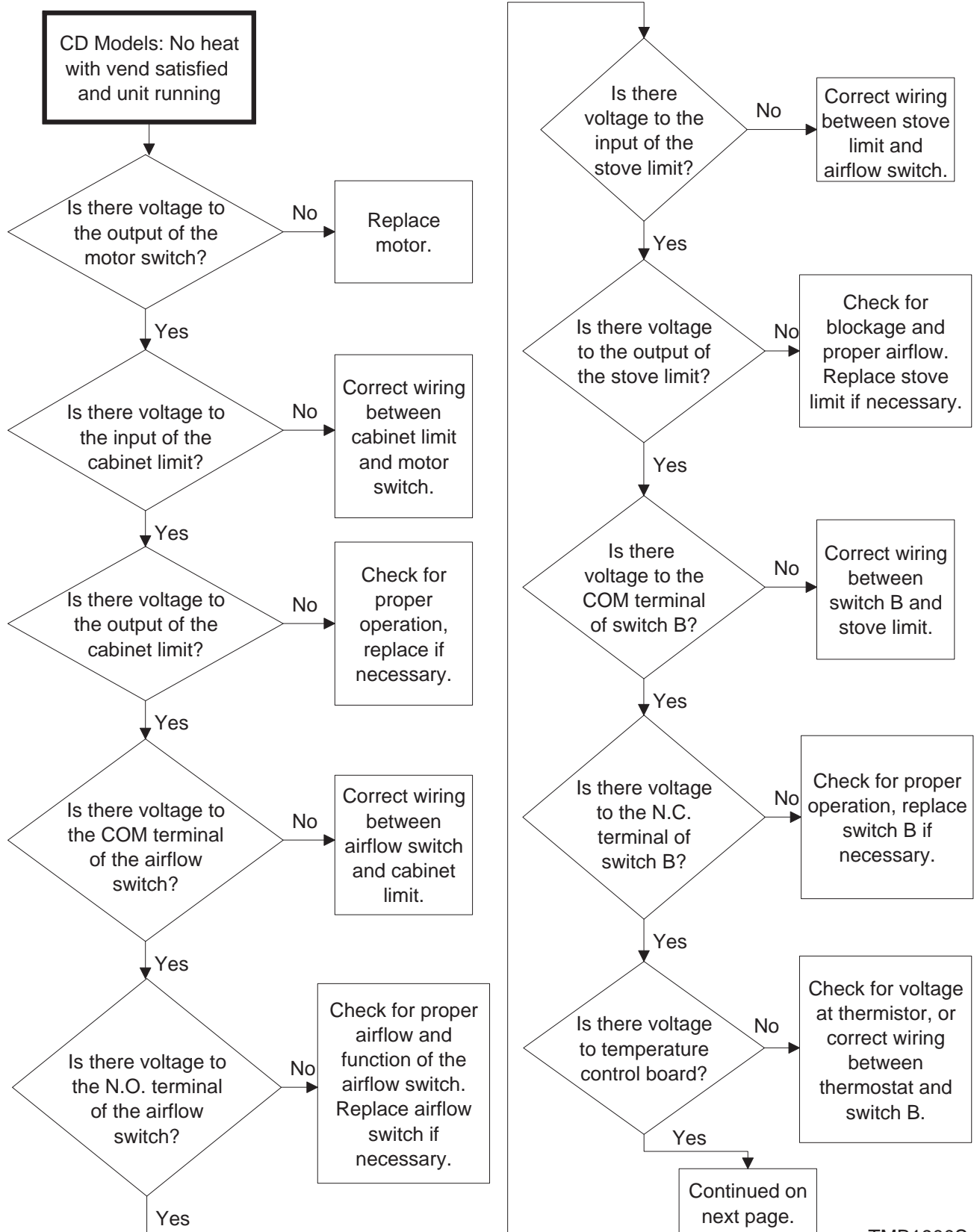
30. CD Control: No Start With Vend Satisfied and Start Button Pressed In (continued)



TMB1899S-b

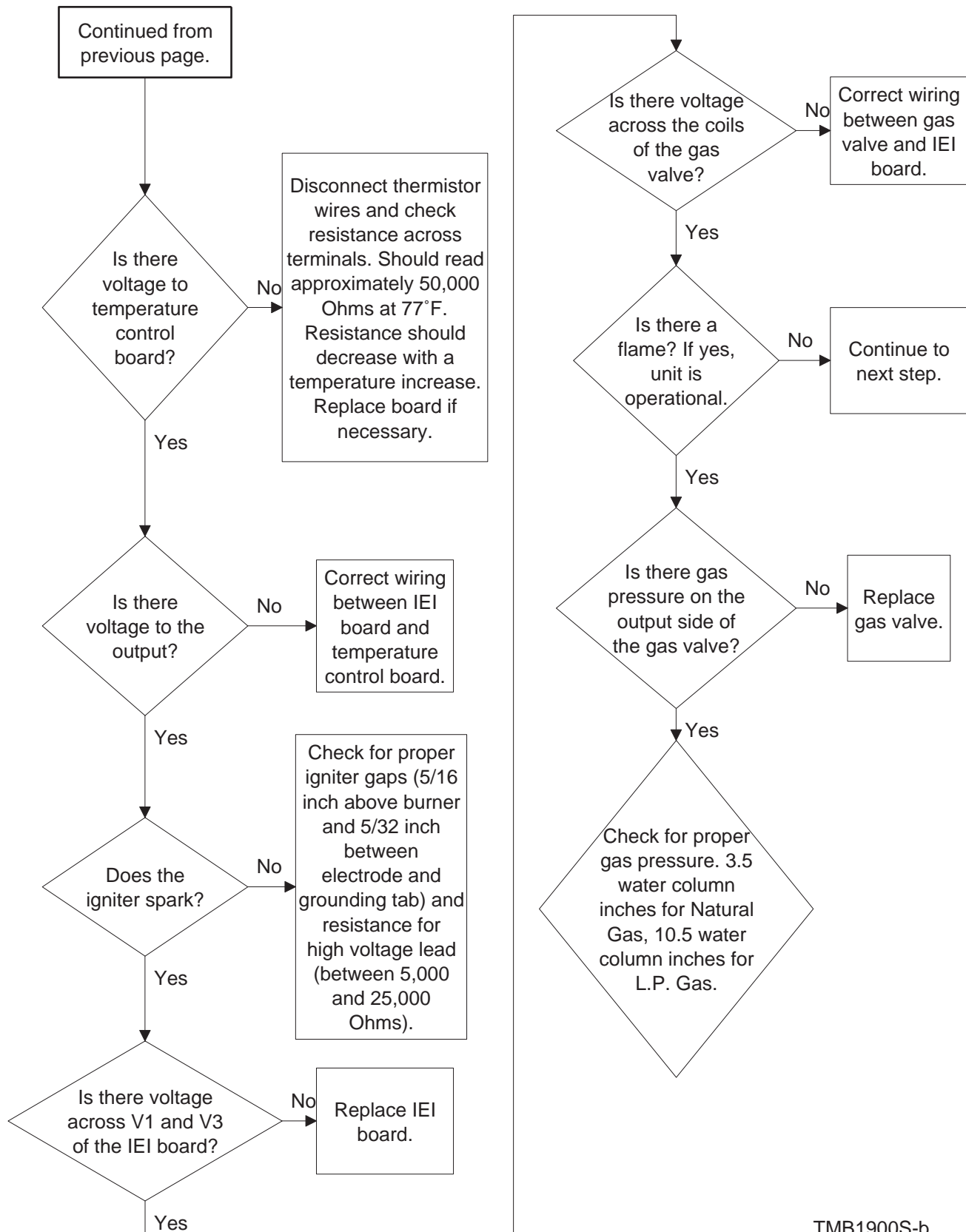
31. CD Control: No Heat With Vend Satisfied and Unit Running

NOTE: All voltage checks are referenced to neutral unless stated otherwise.



TMB1900S-a

31. CD Control: No Heat With Vend Satisfied and Unit Running (continued)

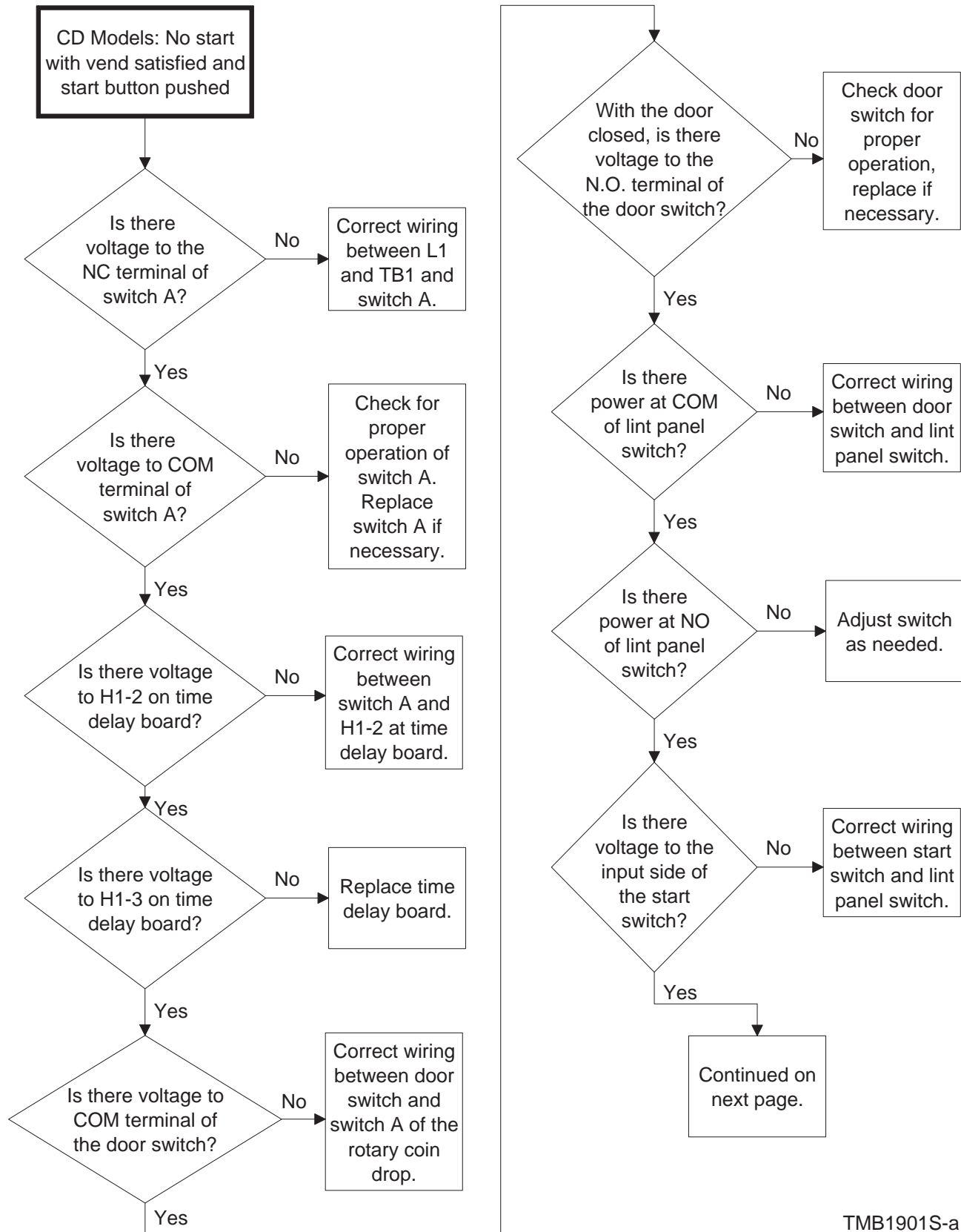


TMB1900S-b

32. CD Control: No Start With Vend Satisfied and Start Button Pushed

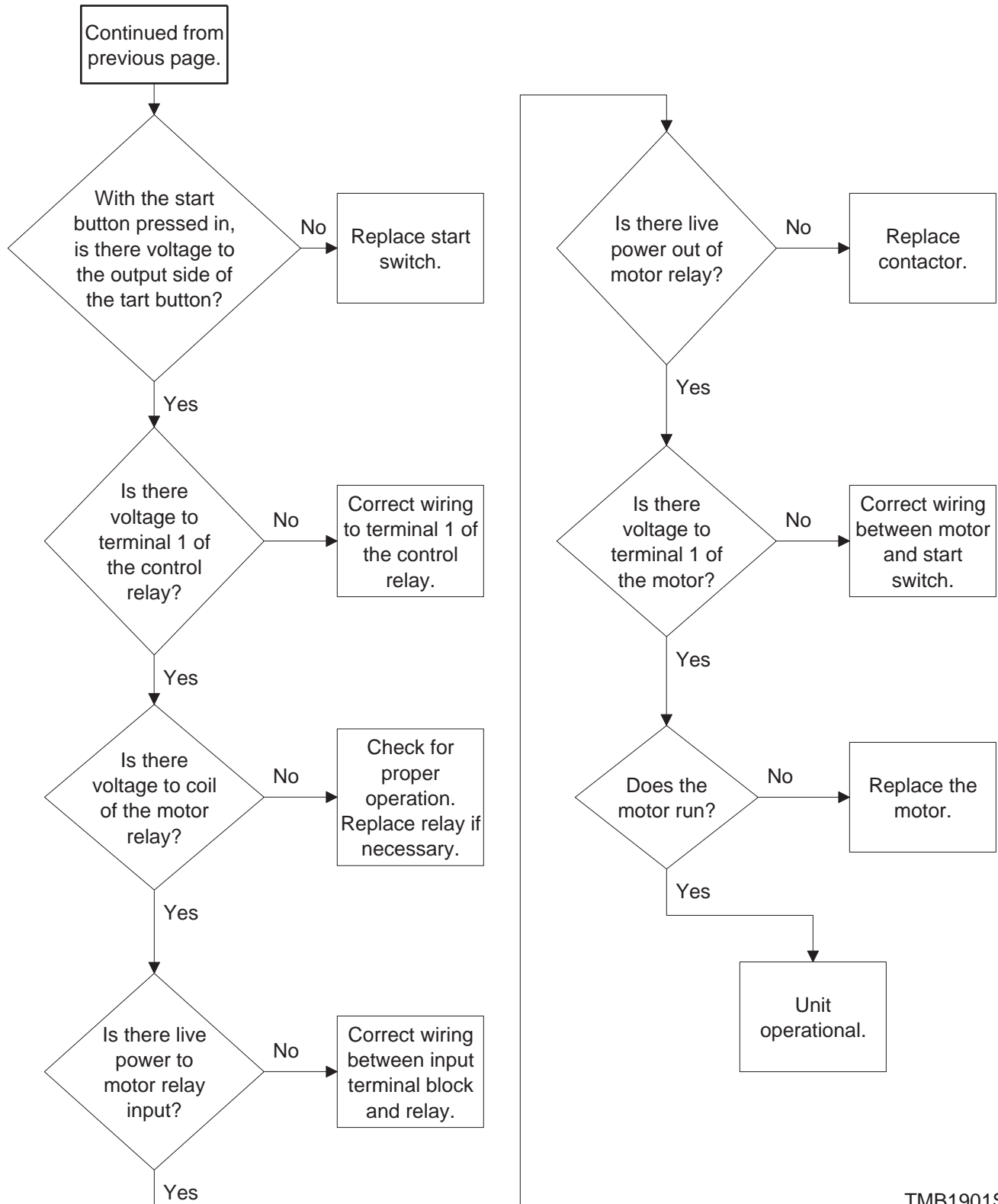
240 Volt/60 Hertz/1 Phase Gas Nonreversing

NOTE: All voltage checks are referenced to neutral unless stated otherwise.



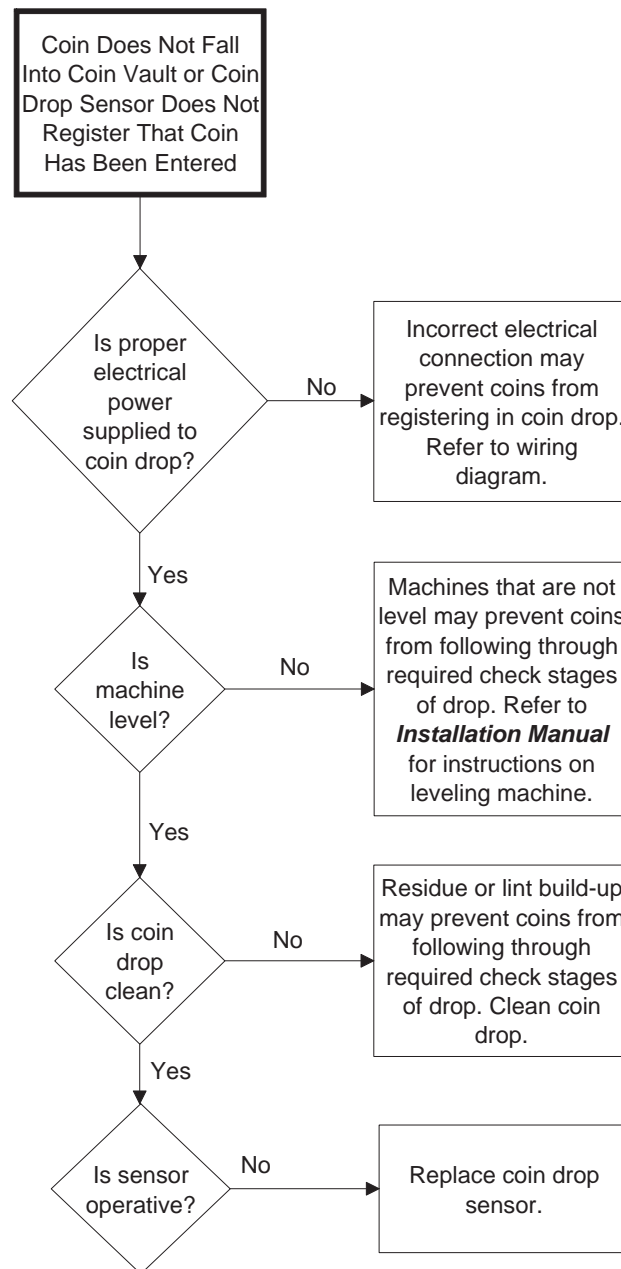
TMB1901S-a

32. CD Control: No Start With Vend Satisfied and Start Button Pushed (continued)



TMB1901S-b

33. Coin Does Not Fall into Coin Vault or Coin Drop Sensor Does Not Register that Coin Has Been Entered



TMB1915S

IMPORTANT: Never use oil to correct coin drop problem. Oil residue will prevent coins from rolling properly.

IMPORTANT: Do not bend or damage mechanical parts within coin drop.

Troubleshooting Coin Drop

If coin drop is not accepting coins, perform the following:

1. Clean coin drop.
2. On electronic coin drops with an old-style tension spring (shown in *Figure 1* and *Figure 3*), test and replace tension spring using the following instructions.

Remove Coin Drop From Machine

1. Disconnect electrical power to machine and drop.
2. Remove coin drop from machine.

Test Tension Spring

1. Push coin return button to open and close coin drop cover to clear possible coin jams. Refer to *Figure 1*.

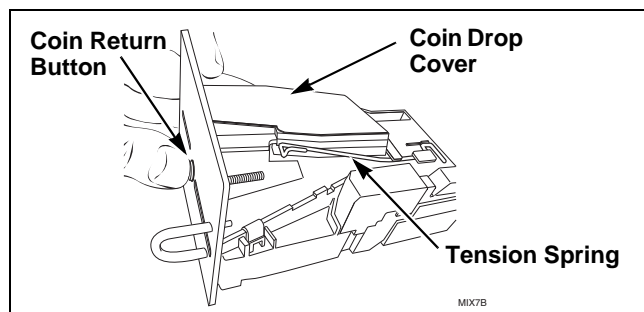


Figure 1

2. Manually hold down coin drop cover and insert coin. Refer to *Figure 2*.

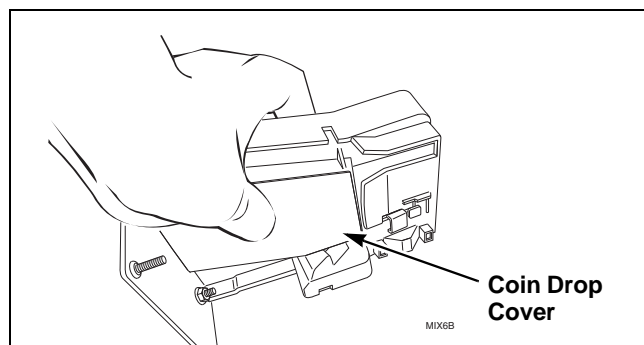


Figure 2

3. If coin drop now operates properly, replace tension spring using instructions on following pages.

Replace Tension Spring

1. Move tension spring downward until cover catch is free. Refer to *Figure 3*.

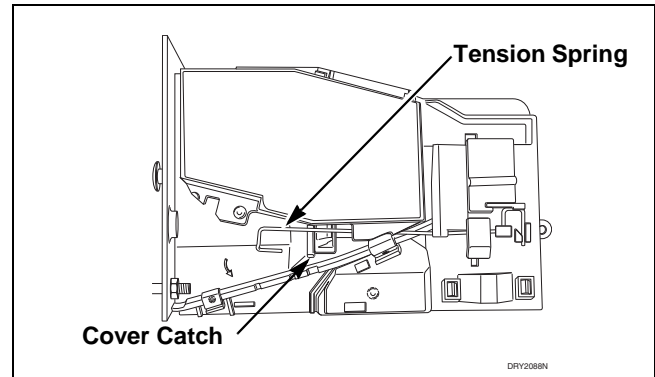


Figure 3

2. Open cover for coin drop.
3. Place a small flathead screwdriver under right side of tension spring and lift up. Refer to *Figure 4*.

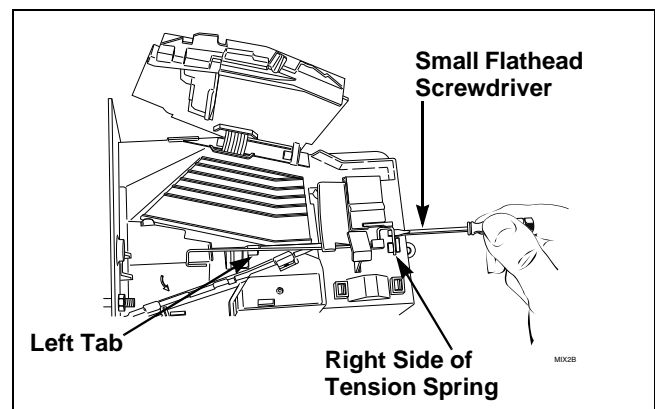


Figure 4

4. Use screwdriver to move spring approximately 3 mm to left.
5. Lift spring over left tab. Refer to *Figure 4*.
6. Rotate spring clockwise, 40 to 60 degrees, until it is free from right tabs. Refer to *Figure 5*.

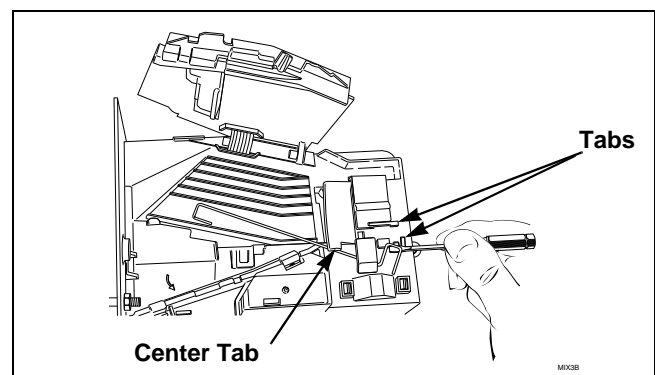


Figure 5

Troubleshooting

7. Use screwdriver to remove spring from center tab. Refer to *Figure 5*.
8. Lift spring, with attached clip, off drop.
9. Remove clip from spring. Refer to *Figure 6*.

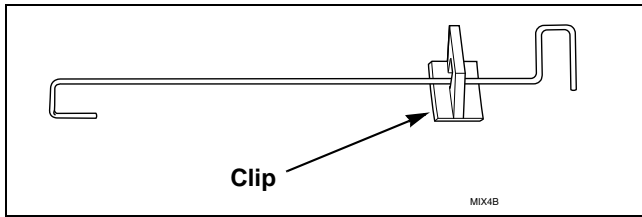


Figure 6

10. Attach clip to new tension spring, Part No. 209/00598/02.
11. Place clip, installed on spring, in slot on coin drop. Refer to *Figure 7*.

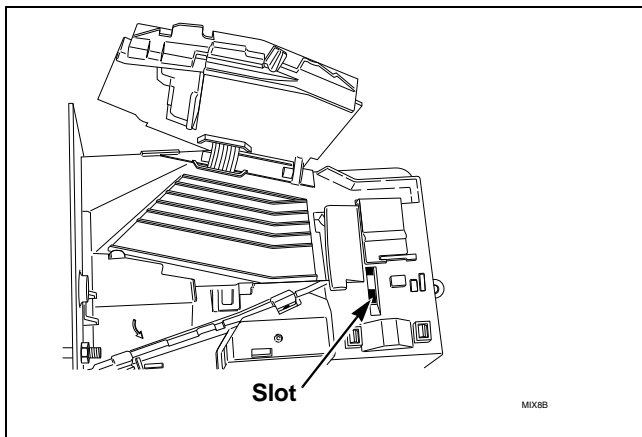


Figure 7

12. Use a small flathead screwdriver to push spring under center tab. Refer to *Figure 8*.

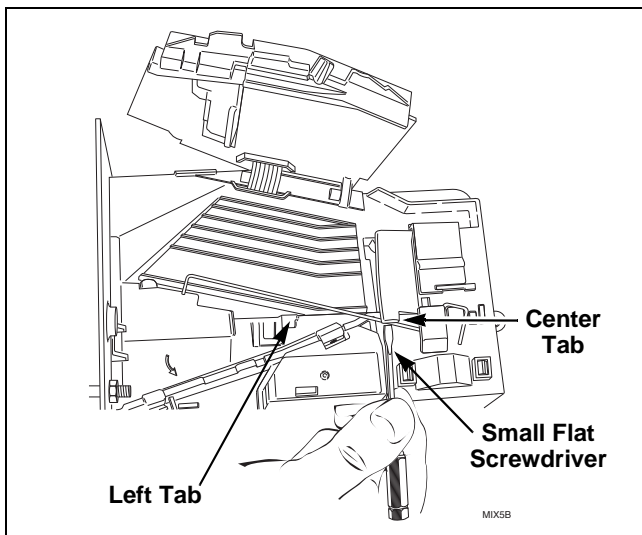


Figure 8

13. Lift spring gently to place in position under left tab.
14. Push spring to right until it snaps into position. Refer to *Figure 4*.
15. Close coin drop cover.
16. Move tension spring over cover catch. Refer to *Figure 3*.

Reinstall Coin Drop Into Machine

1. Reinstall coin drop into machine.
2. Reconnect electrical power to machine and drop.
3. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

Section 4

Adjustments



WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

34. Main Gas Burner Air Inlet Shutters (Gas Models)

Refer to *Figure 9*.



CAUTION

The air inlet shutters on the burner must be adjusted so sufficient primary air is metered into the system for proper combustion and maximum efficiency. Before adjusting the inlet shutter be sure that all lint is removed from lint compartment and lint screen.

W281

Air inlet shutter adjustments will vary from location to location and will depend on the vent system, number of units installed, make-up air and line gas pressure. Opening the shutter increases the amount of air supplied to the burner while closing the shutter decreases the air supply. Adjust air shutter as follows:

- Unlock and remove the access door.
- Start the tumble dryer and check the flame pattern. Correct air and gas mixture is indicated if the flame pattern is primarily blue, with small yellow tips, and bends to the right of the heater section. Too little air is indicated if the flame is yellow, lazy and smoky.
- To adjust the air inlet shutter, loosen adjusting screws.
- Push or pull shutters in or out as necessary to obtain desired flame intensity.
- After shutter is adjusted, tighten locking screw securely.
- If the shutter is correctly adjusted, but the flame pattern is straight up, insufficient air is flowing through the tumble dryer and **airflow switch is improperly set**. A flame pattern that flares to the right and left indicates that no air is flowing through the tumble dryer. Adjust airflow switch.



WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

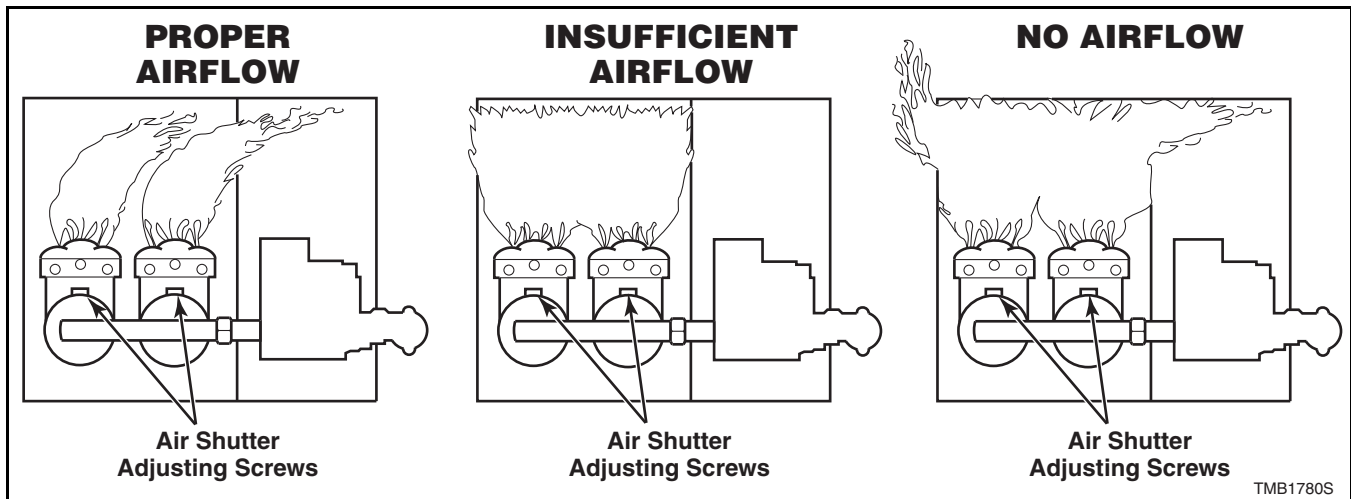


Figure 9

35. Airflow Switch (Gas and Electric Models)

Refer to *Figure 10*.



WARNING

To reduce the risk of fire, airflow switch operation may be affected by a clogged lint screen, lack of make-up air, obstructions at the thimble or in the customer installed main or collector ducts. These conditions must be checked and necessary corrections made before adjusting airflow switch. Always adjust airflow at installation.

W474

The airflow switch (located on the rear of tumble dryer, *Figure 10*), is set at the factory for proper operation. However, if there is a problem with the switch, it should be adjusted as follows:

NOTE: Steam models do not have an airflow switch.

NOTE: Control panel must be in place and access door closed before attempting to adjust airflow switch.

IMPORTANT: Airflow switch disc must remain closed during operation. If it opens and closes during the drying cycle, this indicates insufficient airflow through the tumble dryer. If switch remains open, or pops open and closed during the cycle, the heating system will shut off. The cylinder and fan will continue to operate even though the airflow switch is opened.

The airflow switch operation is controlled by the counterweight position on the shaft. Moving the counterweight either increases or decreases airflow switch sensitivity. The counterweight should be adjusted so the disc moves away from the cabinet when the lint panel is opened 1-1/2 inch (38.1 mm) with a full load. Adjust the airflow switch as follows:



WARNING

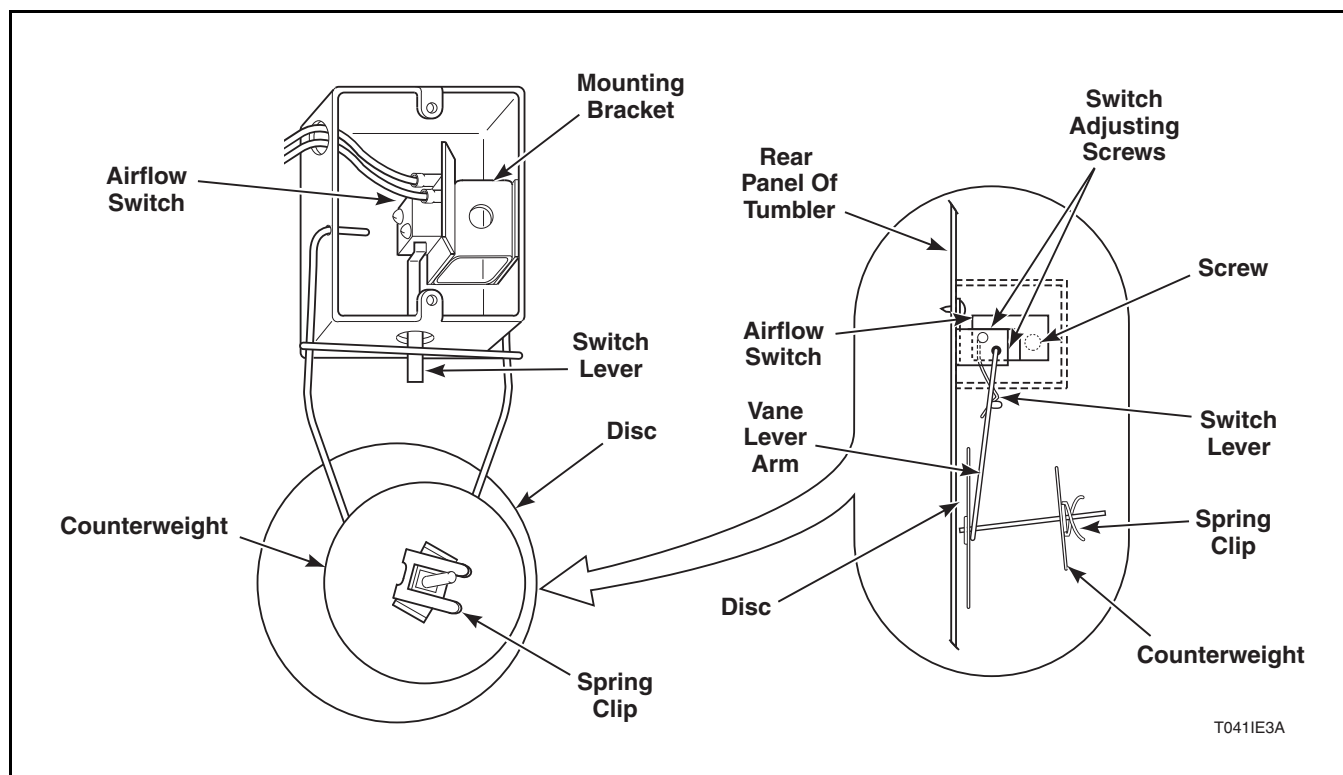
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

- Load the tumble dryer. This adjustment is much faster to make with one person opening lint panel in front and another adjusting the counterweight in the rear of tumble dryer.
- Temporarily tape down the lint panel safety switch located behind the upper right corner of the lint panel.
- Start the tumble dryer. Open the lint panel 1-1/2 inch (38.1 mm). The airflow disc should move away from the cabinet, opening the switch contacts and shutting off the heat system. This indicates proper operation and proper adjustment.
- If switch is not opening as described in step 3, it should be adjusted so it is **MORE** sensitive. Depress the spring clip and move counterweight toward disc. Retest by opening lint panel and continue moving counterweight toward disc until switch operates as described in *Step c*.
- If switch opens **BEFORE** lint panel is opened the proper distance, step 3, it should be adjusted so it is **LESS** sensitive. Depress the spring clip and move counterweight away from the disc. Retest by opening lint panel and continue moving counterweight away from disc until switch operates as described in *Step c*.

IMPORTANT: Remove tape from lint panel switch.



T041IE3A

Figure 10



WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

36. Loading Door Strike

Refer to *Figure 11*.

The door strike must be adjusted so it has sufficient tension to hold loading door closed against the force of a tumbling load. The door strike is properly adjusted when 8-15 lbs. (17.6-33 kg) of pull is required to open door.

To adjust, open door, loosen acorn nut and turn door strike screw in or out as required. Retighten acorn nut.

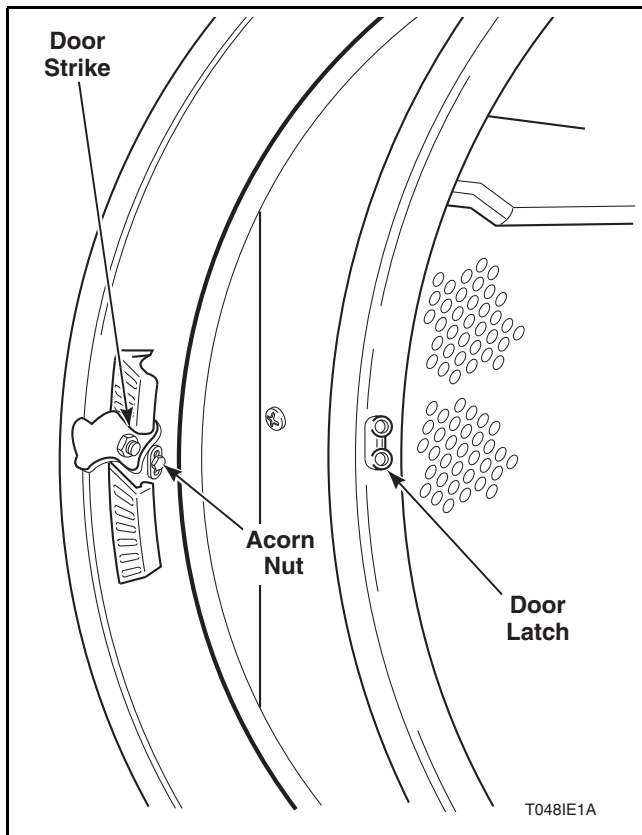


Figure 11

37. Drive Belt Tension

Proper tension is when drive belt can be depressed 1/2 inch (12.7 mm) by applying light thumb pressure (approximately 5 pounds) at a point midway between sheave and motor pulley.

Reversing Belt Drive Models: Proper tension is when each cylinder belt can be depressed approximately 3/16 inch (4.77 mm) by applying light thumb pressure (approximately 5 pounds) at a point midway between the sheave and the idler.

Nonreversing Models:

Refer to *Figure 12*.

- Remove guard from rear of tumble dryer.
- Loosen idler housing capscrews holding idler housing to the housing support.
- Position housing assembly by turning adjusting bolt until proper belt tension is reached, then retighten idler housing capscrews.
- Replace guard on rear of tumble dryer.

Reversing Models:

Refer to *Figure 13*.

- Remove guard from rear of tumble dryer.
- To adjust cylinder belt tension, loosen idler housing bolts holding idler housing assembly to the housing support.
- Position housing assembly by turning adjusting bolt until proper belt tension is reached, then retighten idler housing bolts.

NOTE: Adjust cylinder belt tension first, then adjust motor to idler belt tension. Refer to *Figure 13*.

- Loosen the locking bolt.
- Loosen the adjusting nut and use the adjusting screw to move the motor up or down.
- Once proper belt tension is reached, retighten the adjusting nut and locking bolt.
- Replace the guard on rear of tumble dryer.

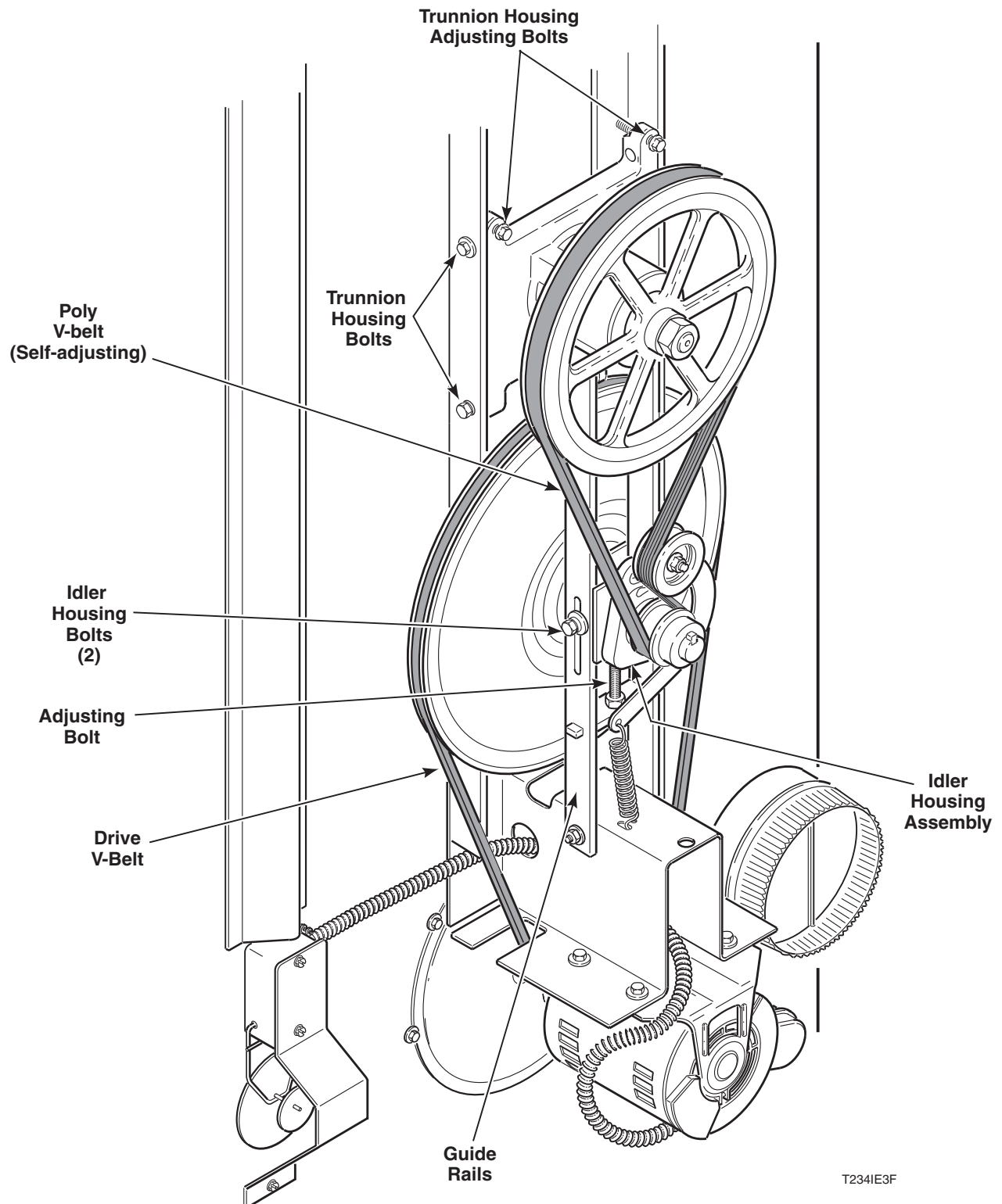
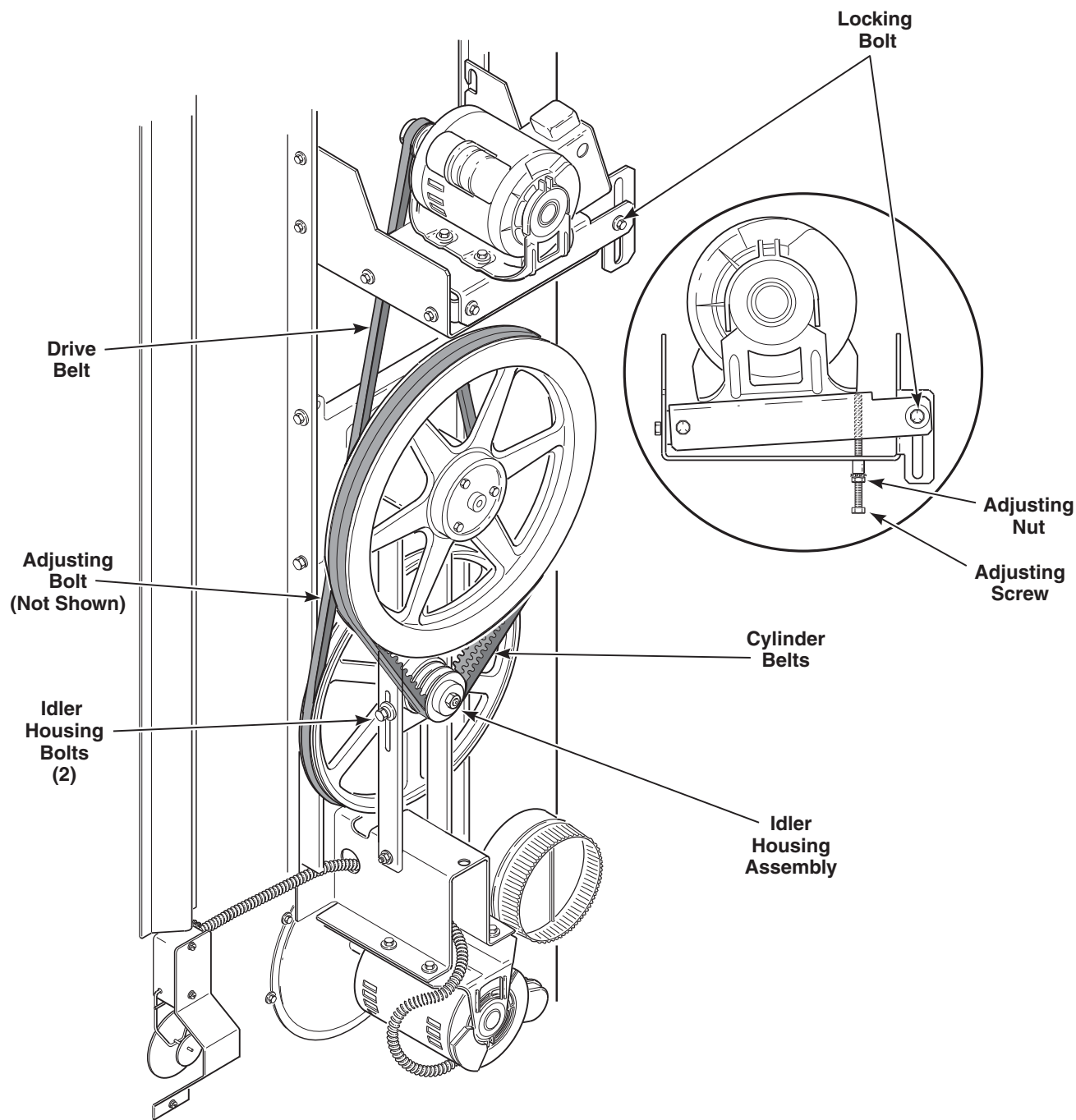
NONREVERSING

Figure 12

REVERSING



T322IE3A

Figure 13



WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

38. Cylinder Clearance

The clearance between the cylinder rim and front panel must be adjusted so the cylinder is centered within the front panel opening when the cylinder is fully loaded and is turning. However, the adjustment should be made when the cylinder is empty.

- Open loading door and check the gap between the center of the front panel top flange and the cylinder rim. Proper adjustment is when the gap is 1/2 - 3/4 inch (12.7 - 19.05 mm). Refer to *Figure 14*.
- Remove drive guard.
- Loosen the four trunnion housing bolts. Refer to *Figure 12*.
- Loosen the locknuts on the trunnion housing adjusting bolts. Refer to *Figure 12*.
- Turn the adjusting bolts in or out as necessary to obtain proper clearance between cylinder rim and front panel.

NOTE: Turning the adjusting bolts clockwise will raise the cylinder and turning them counter-clockwise will lower the cylinder. Turn both bolts evenly to adjust top and bottom clearance. Turn one or the other adjusting bolt in or out to adjust side clearance.

- After the cylinder is properly adjusted, tighten the adjusting bolt locknuts and the four trunnion housing bolts.
- Install the belt guard removed in *Step b*.

NOTE: If adjusting the trunnion housing fails to correct the clearance, the problem is probably due to a worn trunnion shaft or bearings.

NOTE: Use Kit M4763P3 to upgrade from two washers to one spacer on machines made prior to serial number 0902XXXXX to ensure proper cylinder and front panel alignment to prevent the possibility of forward cylinder movement and rubbing against the front panel.

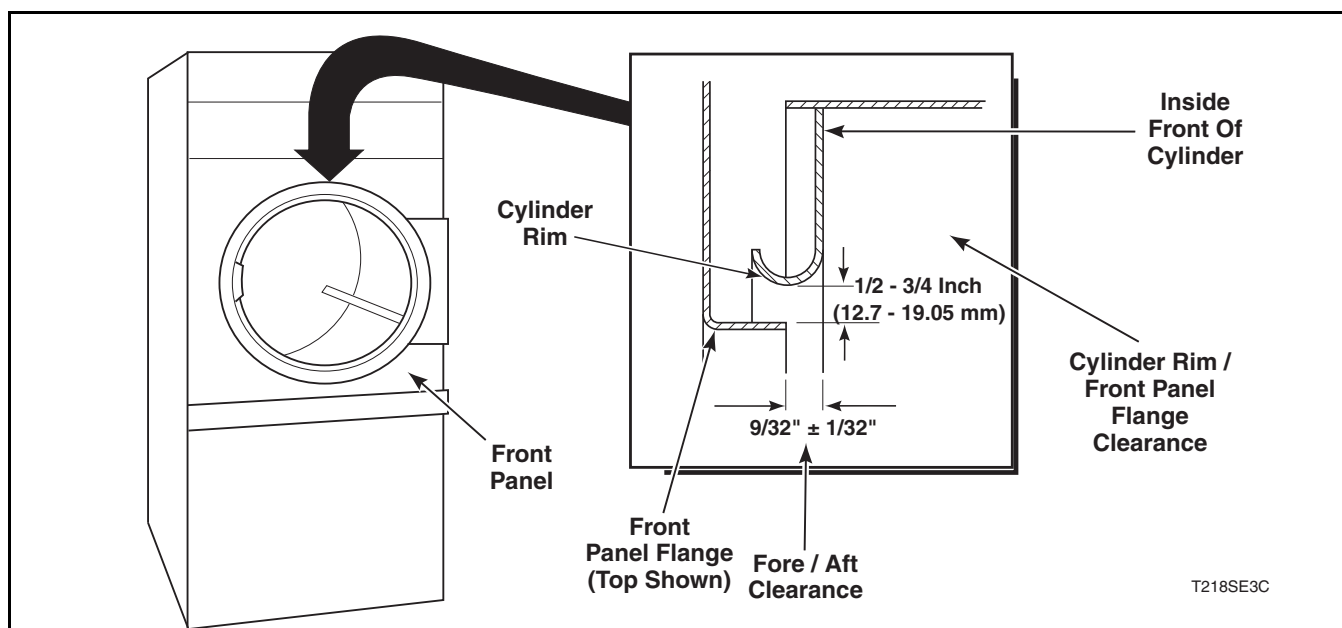


Figure 14

Adjustments

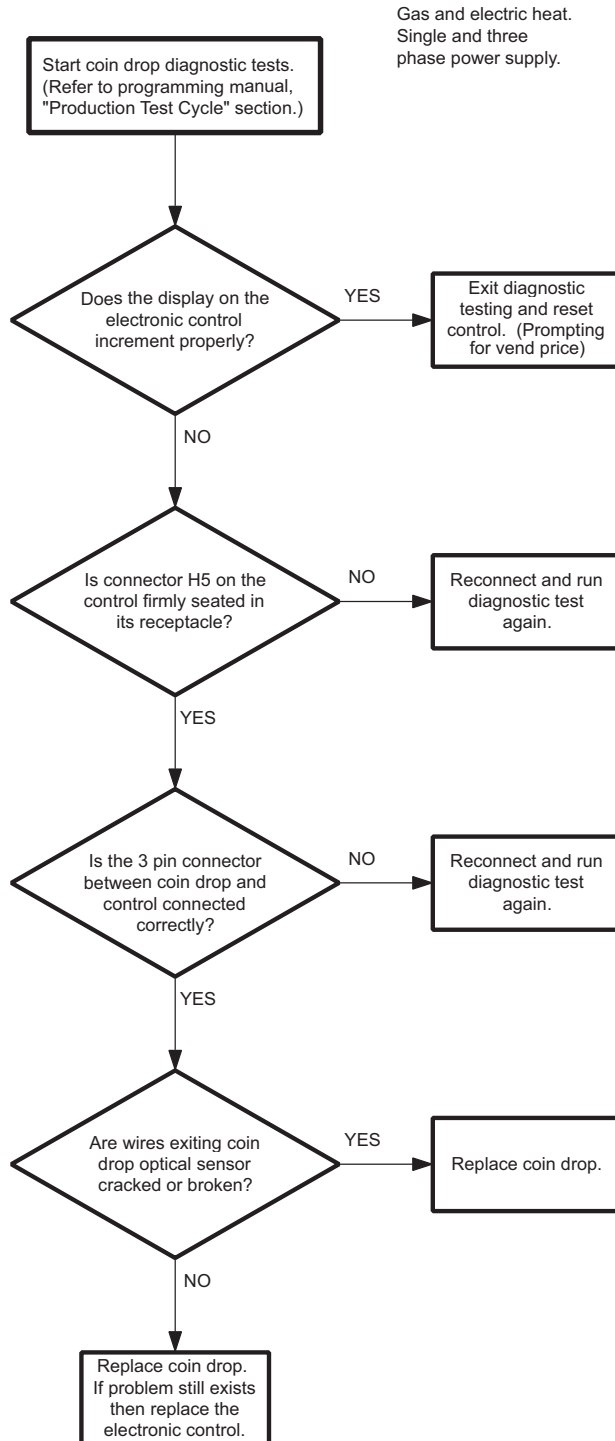
Notes

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing. There are no margins, text, or other markings on the page.

Section 5

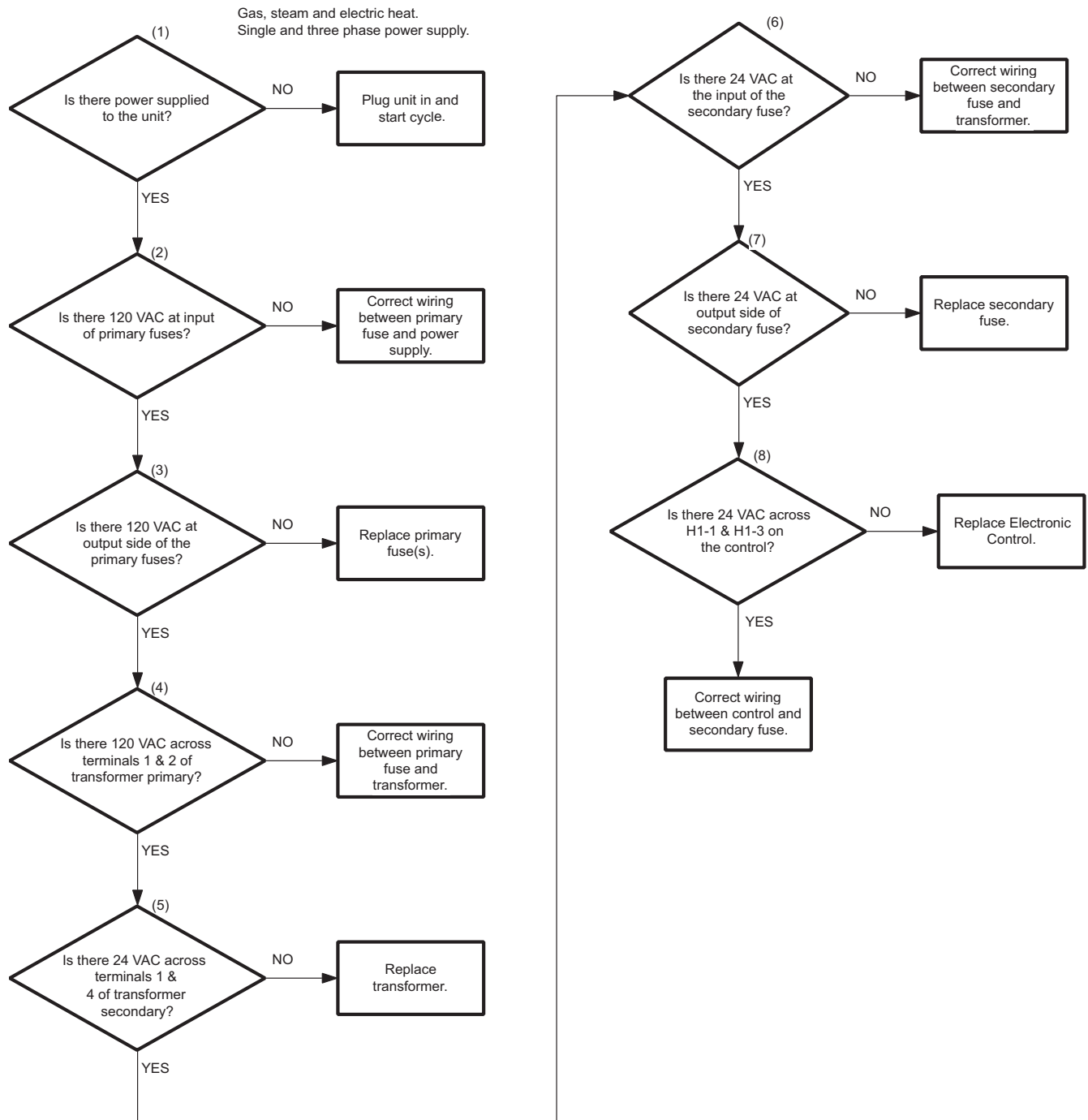
Micro Display Control (MDC) Troubleshooting

39. Coins Ignored When Entered



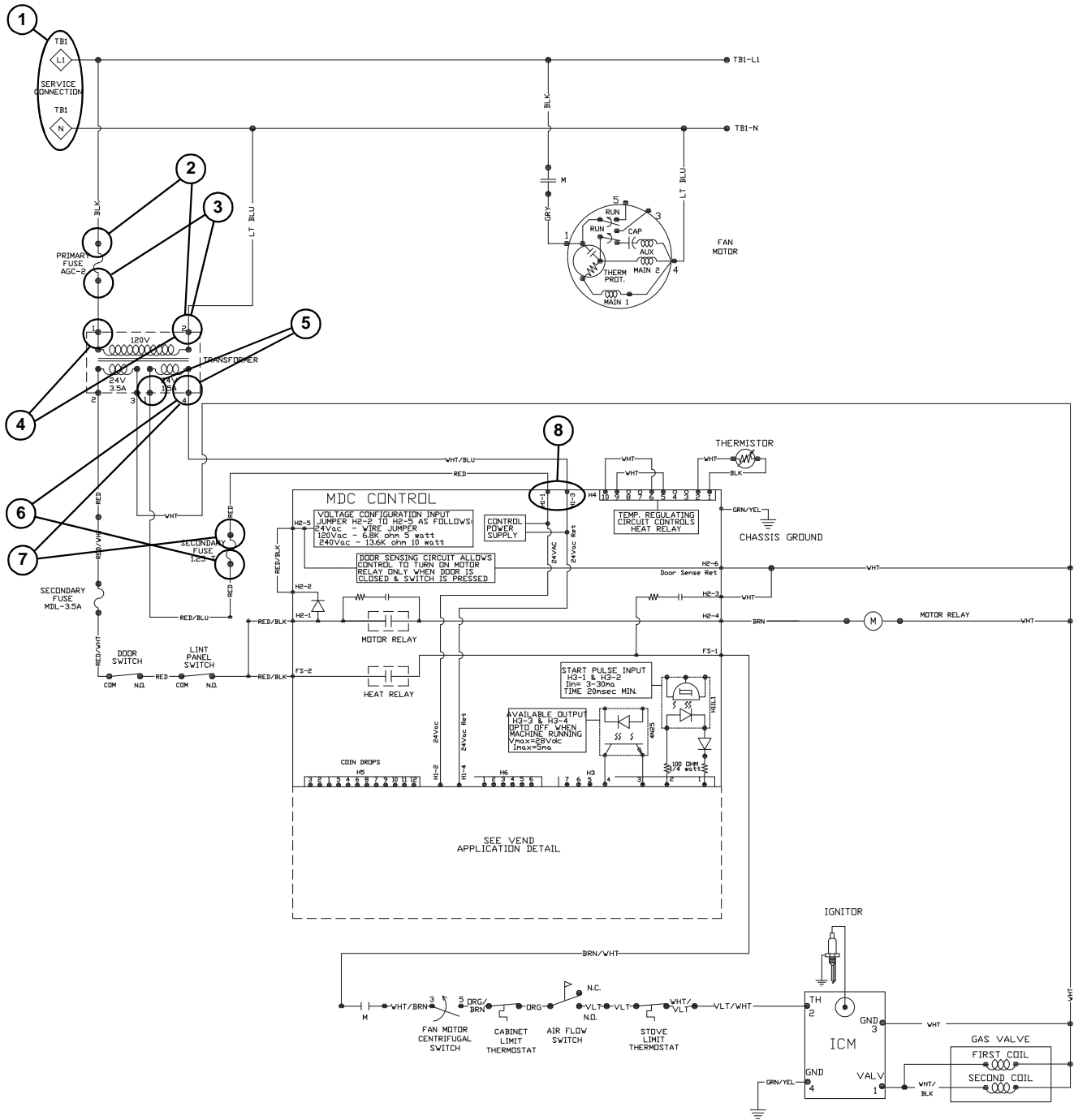
TMB248S

40. Control Has No Display



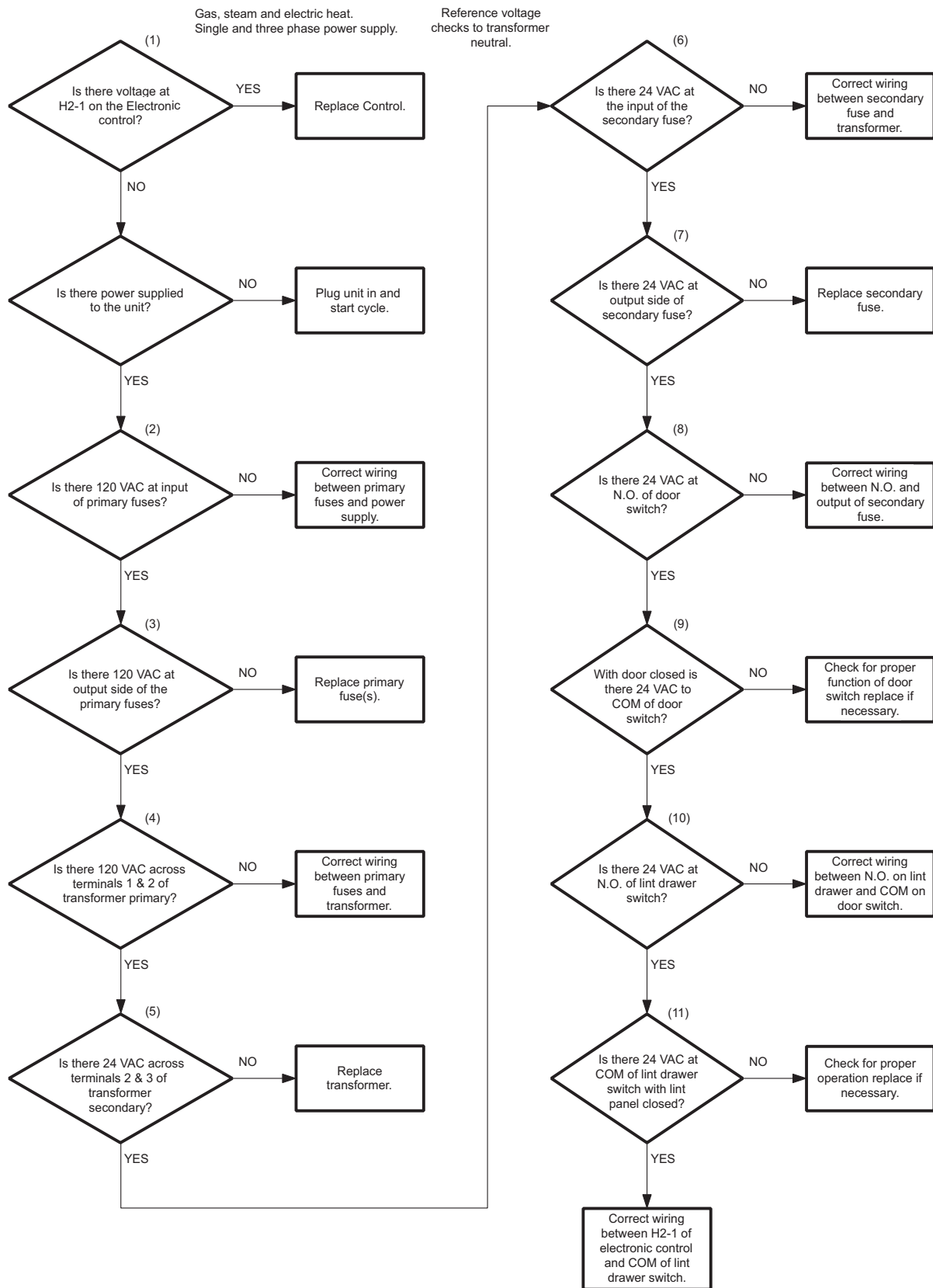
TMB249S

Control Has No Display



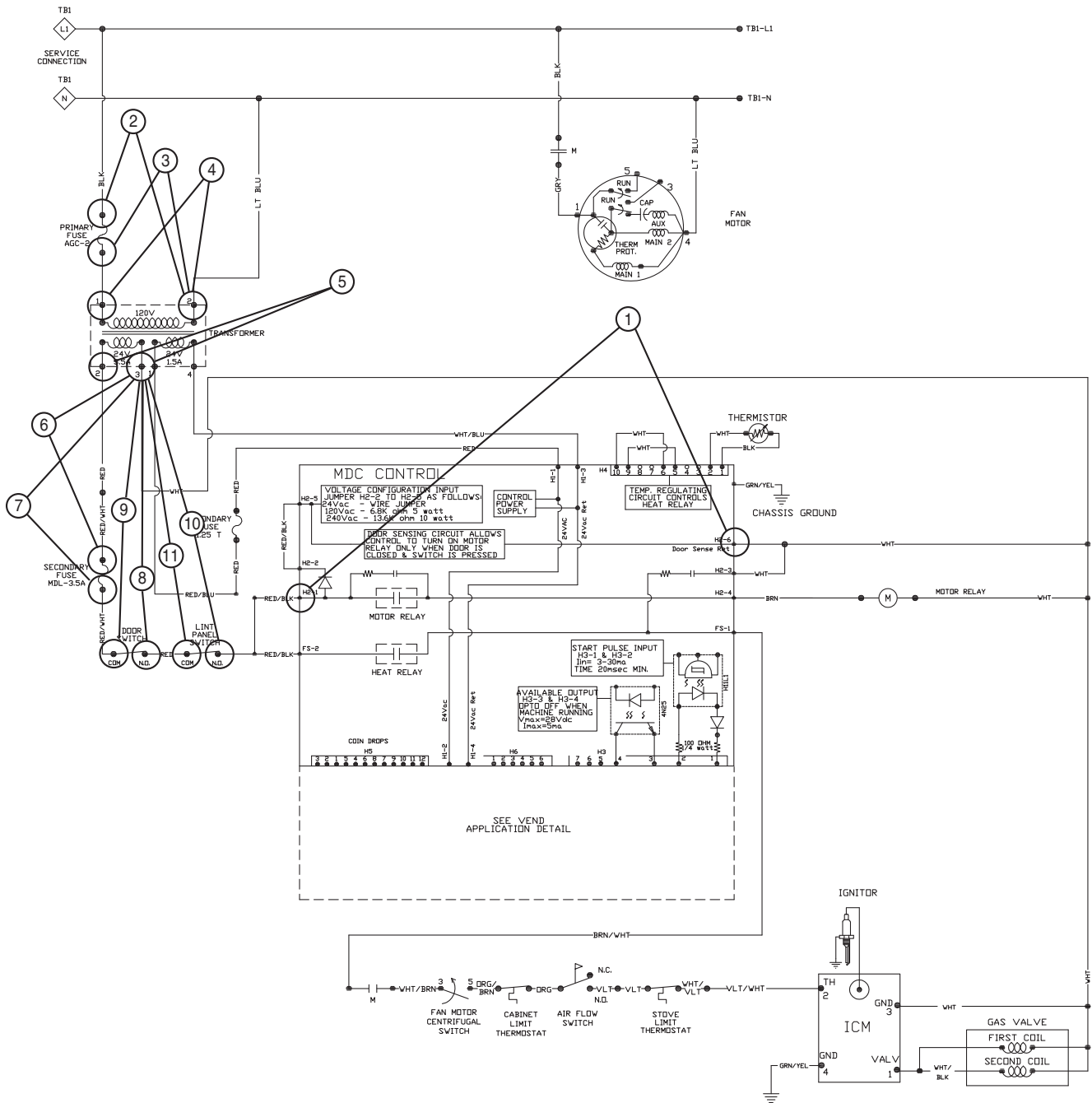
TMB2072S

41. Door Open Indicator



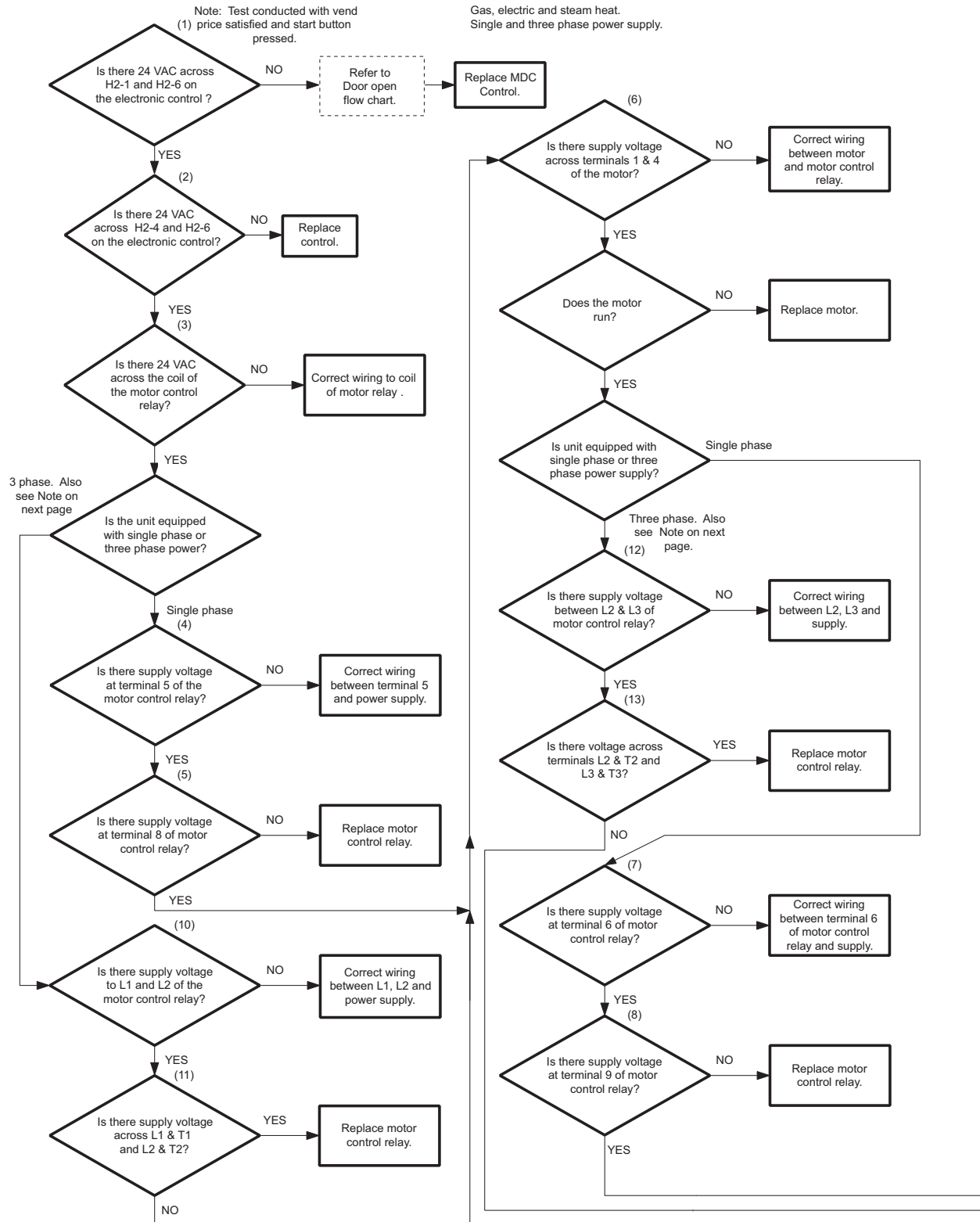
TMB250S

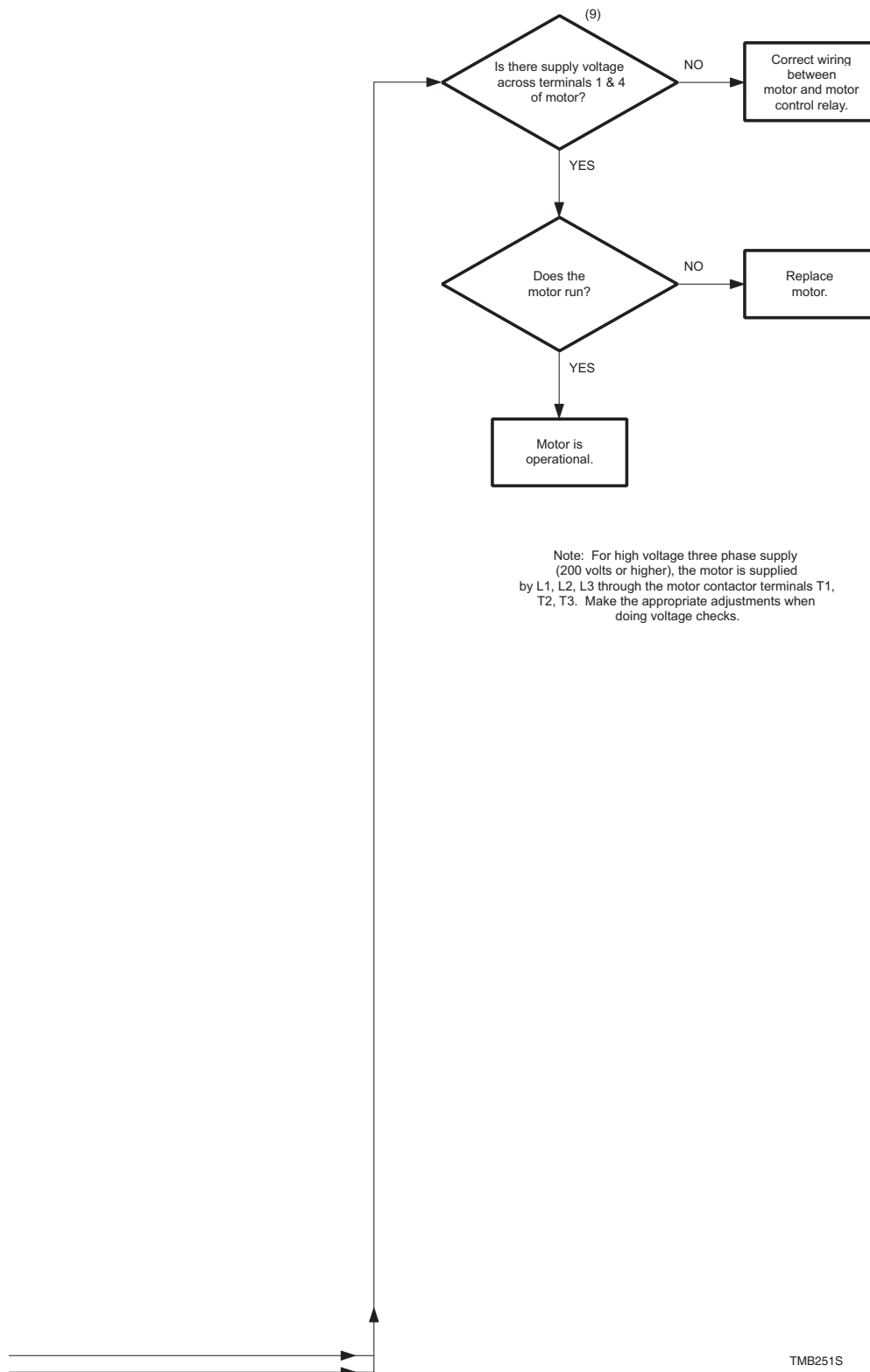
Door Open Indicator



TMB2073S

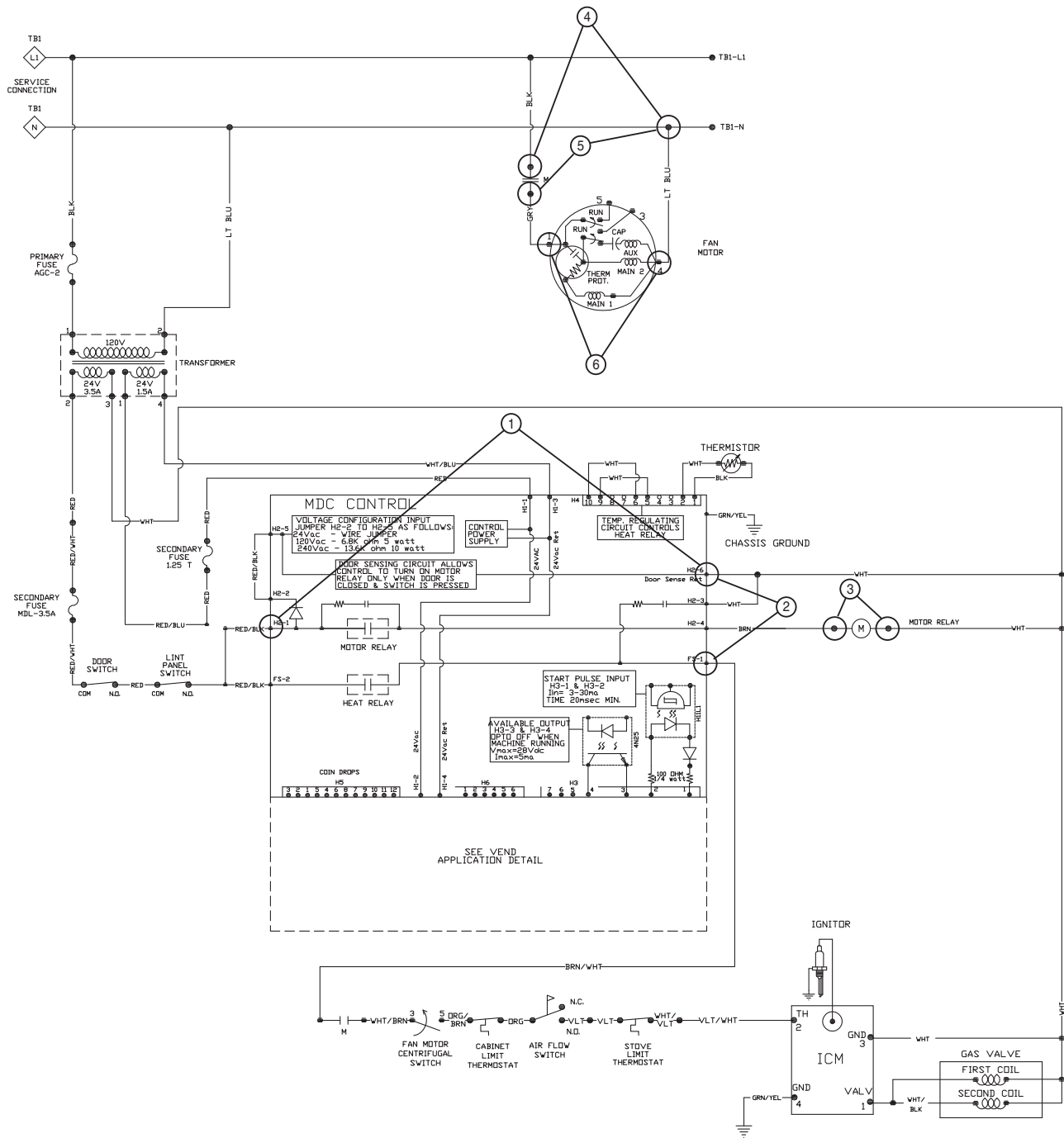
42. Motor Will Not Start/Run



42. Motor Will Not Start/Run (continued)

Please see following page for wiring diagram information.

Motor Will Not Start/Run



TMB2074S

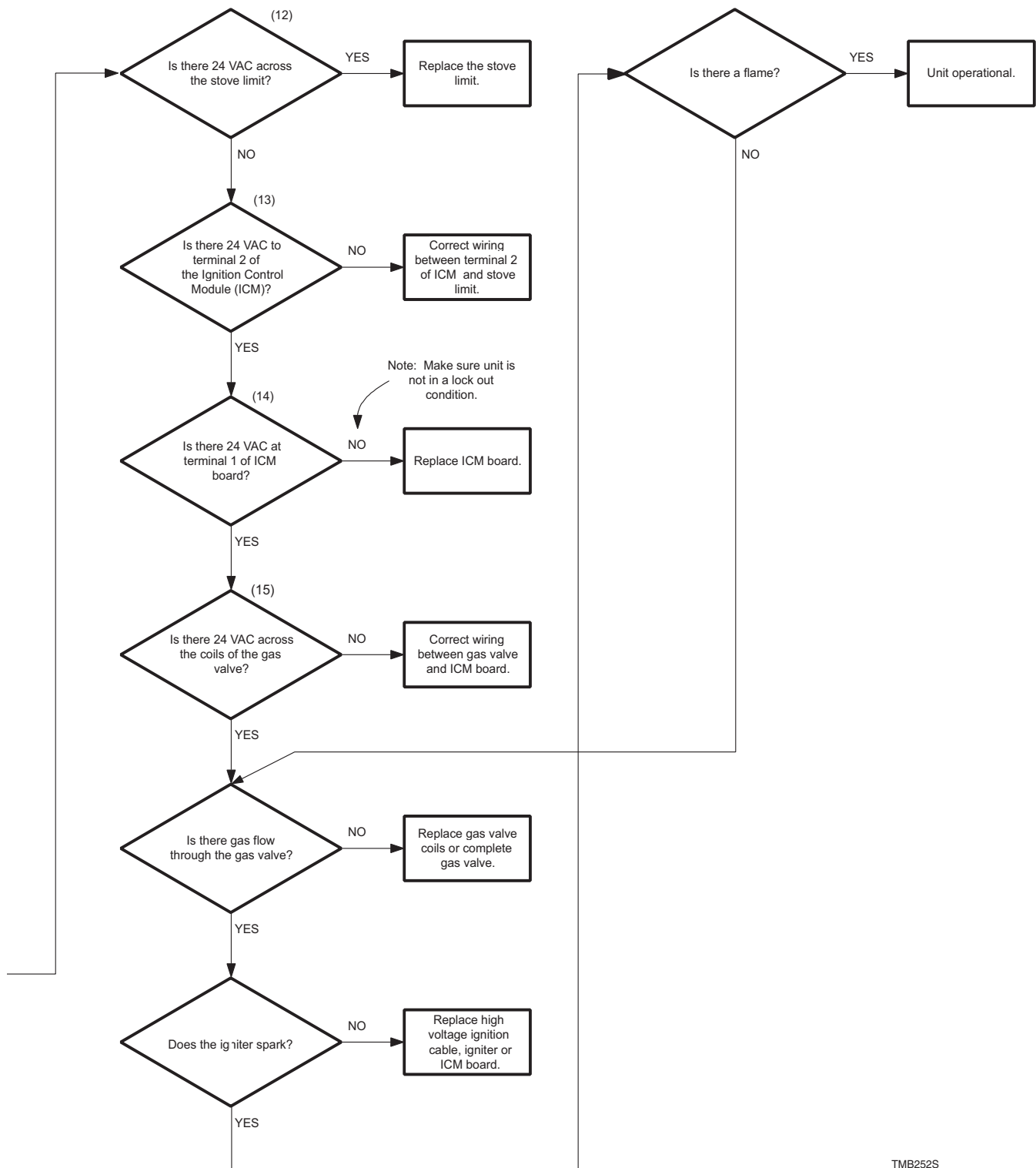
43. Unit Will Not Heat – Gas

Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.



43. Unit Will Not Heat – Gas (continued)



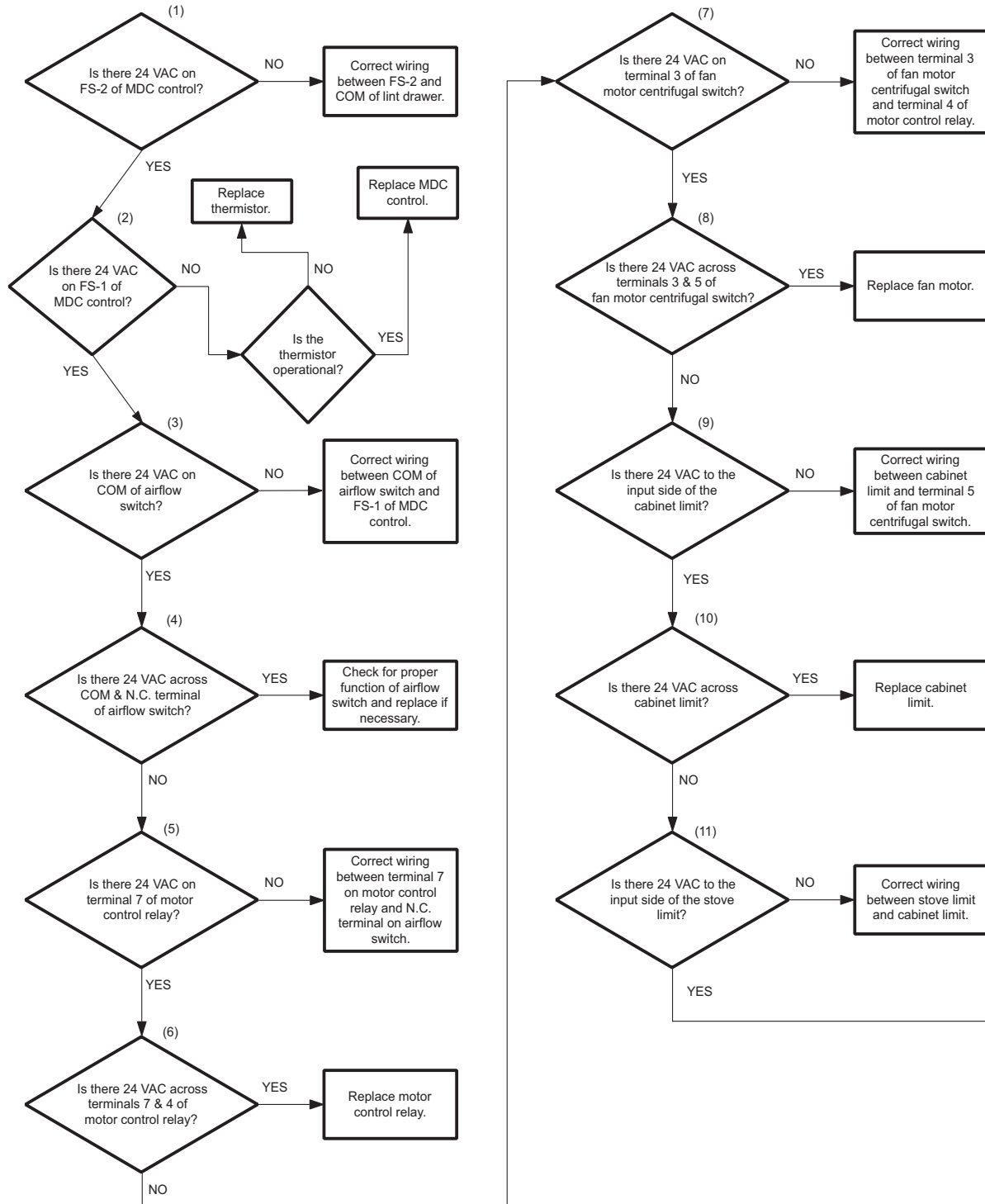
Please see following page for wiring diagram information.

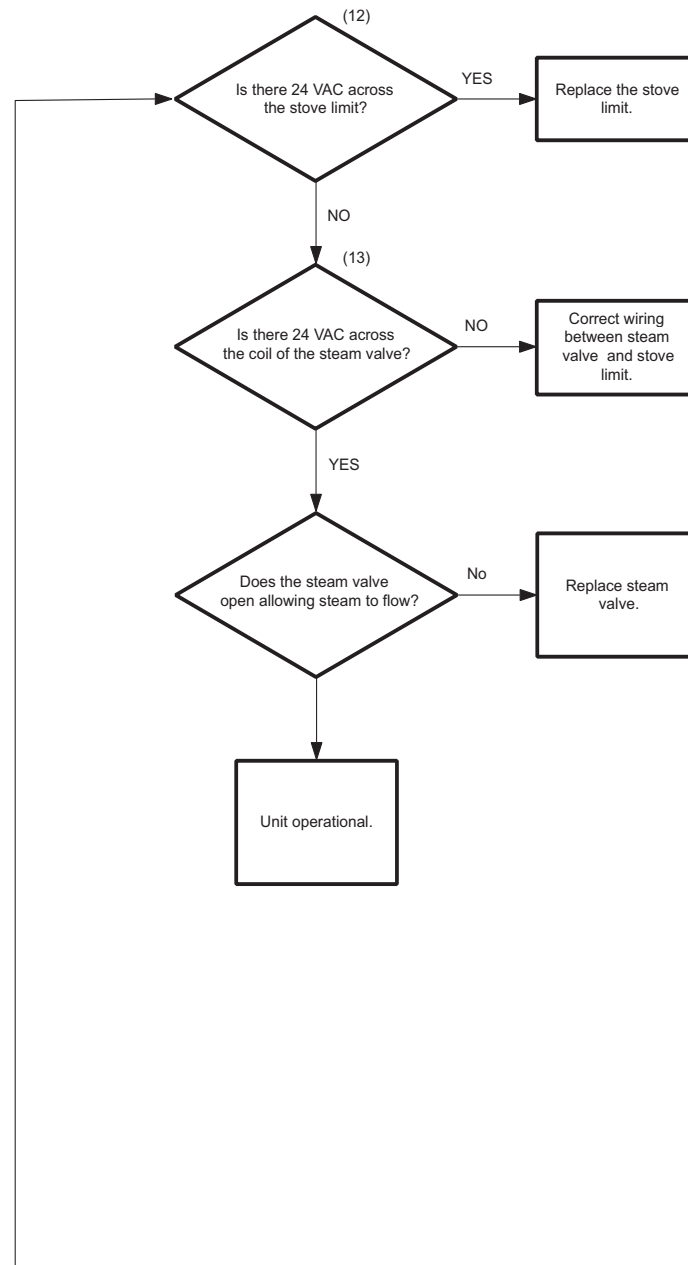


44. Unit Will Not Heat – Steam

Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.

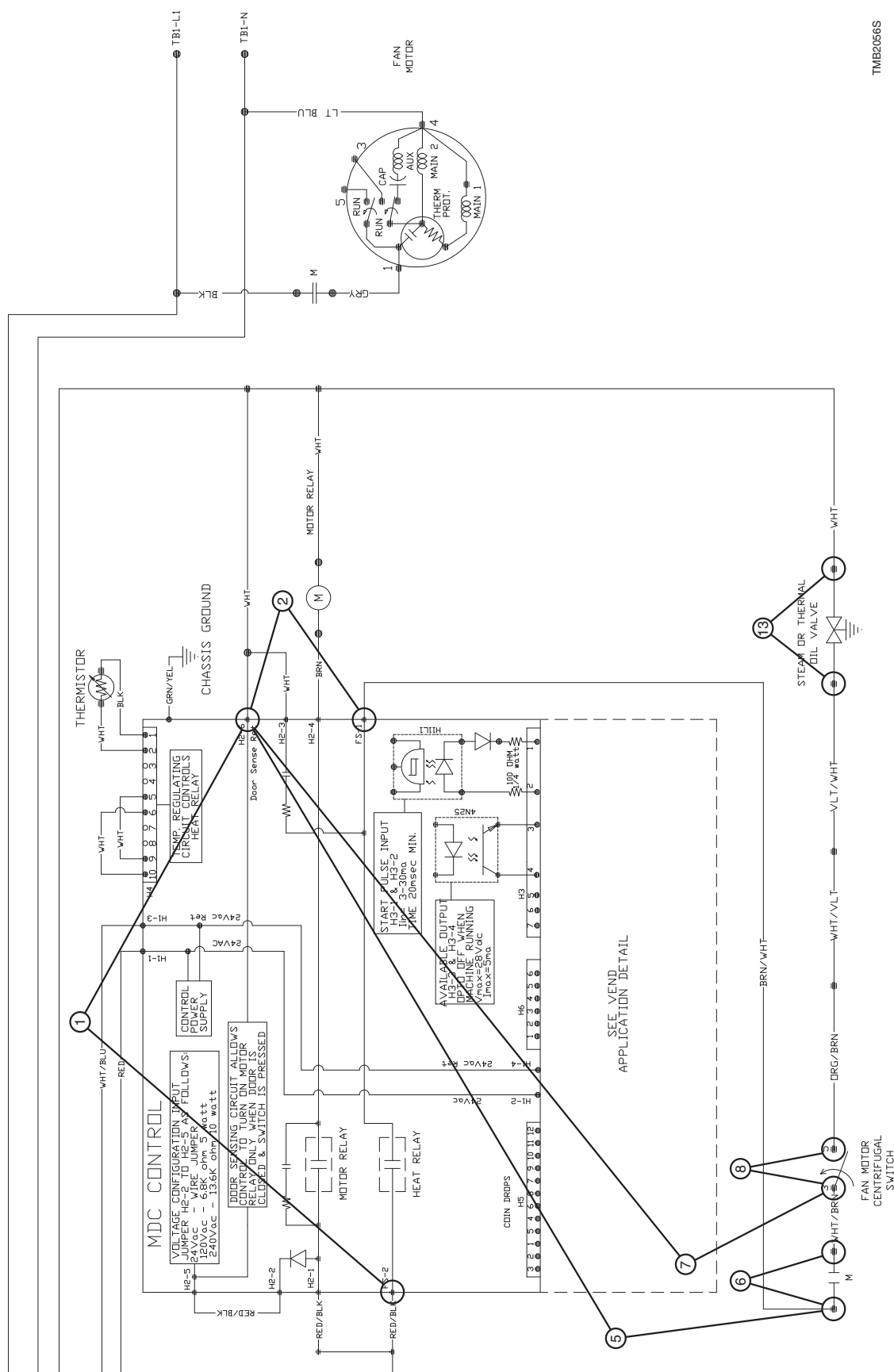


44. Unit Will Not Heat – Steam (continued)

TMB253S

Please see following page for wiring diagram information.

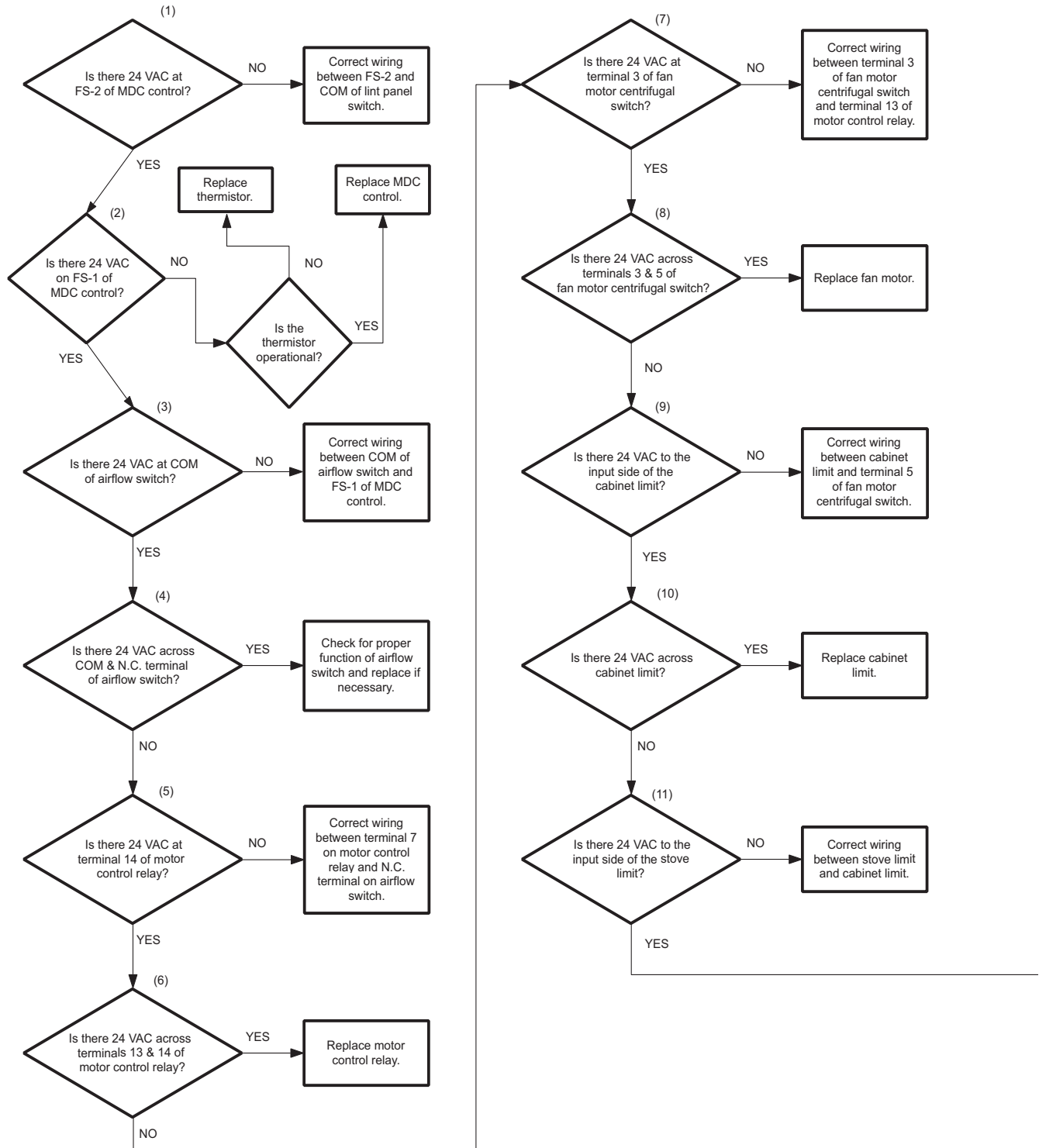
Unit Will Not Heat – Steam



45. Unit Will Not Heat – Electric

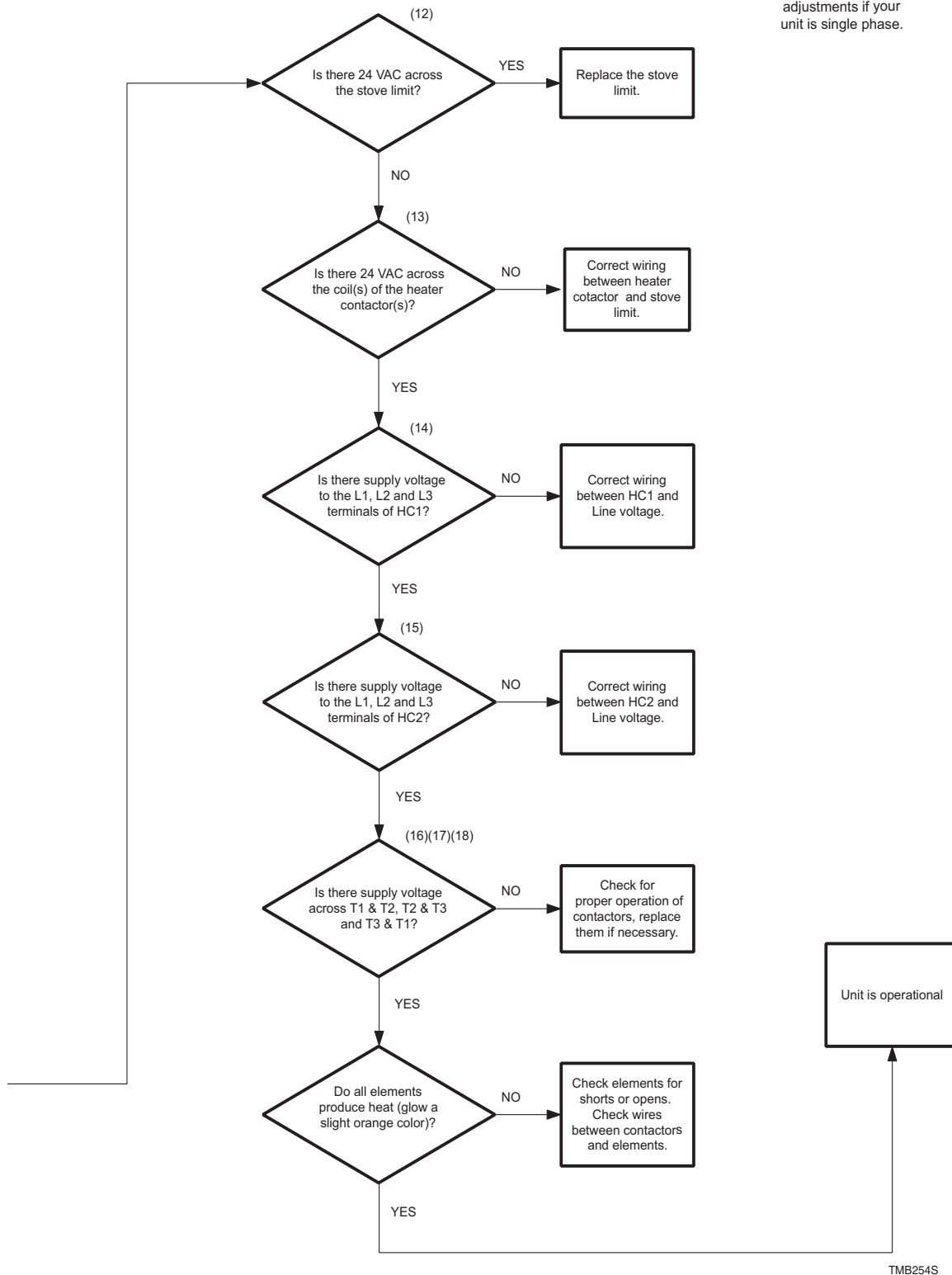
Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.



45. Unit Will Not Heat – Electric (continued)

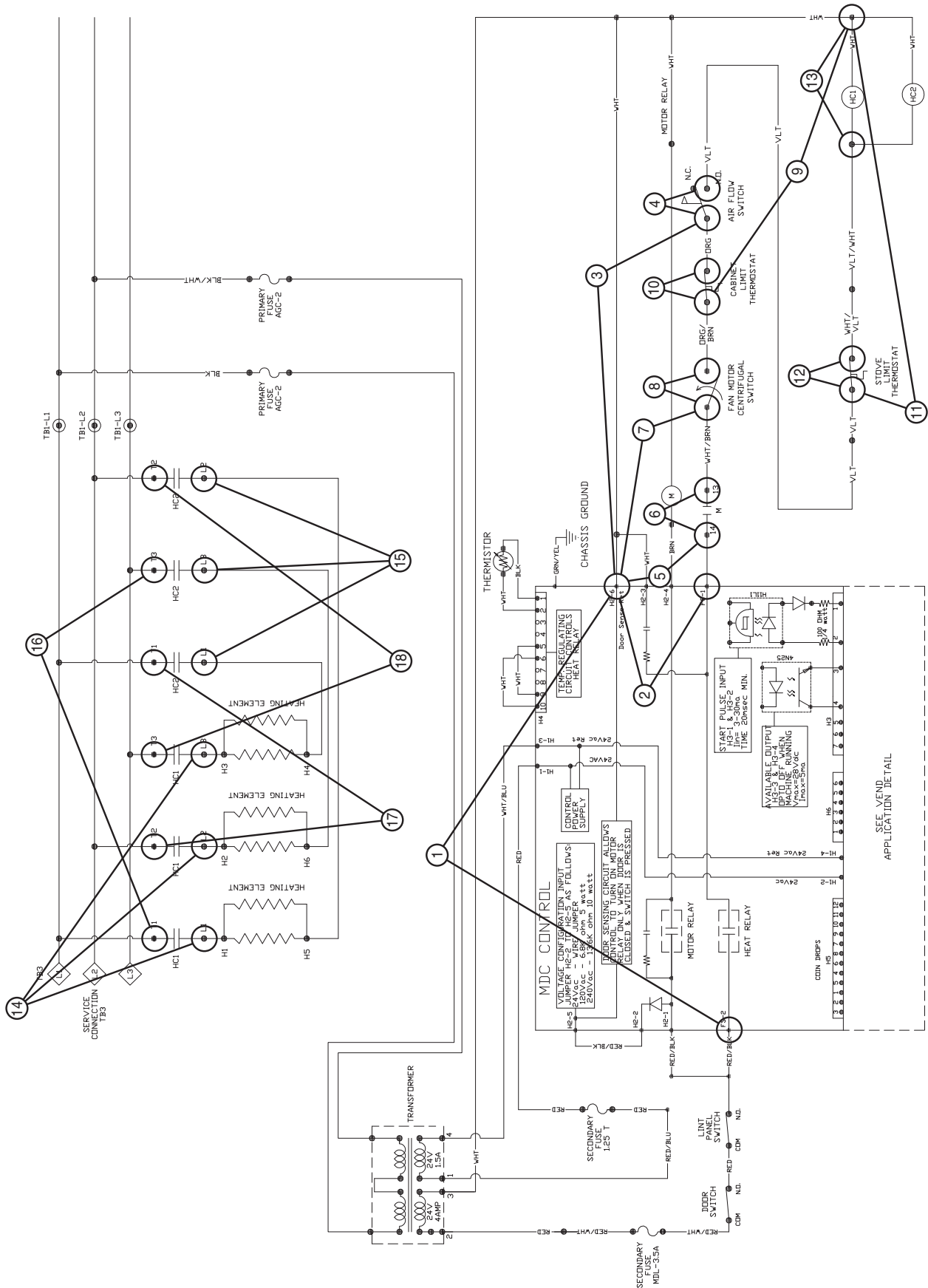
Note: Please make the appropriate adjustments if your unit is single phase.



TMB254S

Please see following page for wiring diagram information.

Unit Will Not Heat – Electric



TMB2057S

46. Error Codes

OP - Indicates physical “open” in the thermistor circuit. Possible causes are: 1) thermistor, 2) wiring between control and thermistor, 3) control.

SH - Indicates a “short” in the thermistor circuit. Possible causes are: 1) shorted thermistor, 2) a short in the wiring between control and thermistor, 3) control.

Card Reader Machines: (In addition to the above errors)

EC:19 - Indicates no card reader communication. The control and the reader cannot communicate. Check reader, control and harness.

NOTE: For all other card reader errors, consult the card reader manual provided by the manufacturer.

Display	Definition	Corrective Action
OP	Indicates an open circuit in the thermistor.	<ul style="list-style-type: none">• Check thermistor. Replace if inoperative.• Check wiring between control and thermistor. Refer to wiring diagram for proper wiring.• Check control. Replace if inoperative.
SH	Indicates a short circuit in the thermistor.	<ul style="list-style-type: none">• Check thermistor. Replace if inoperative.• Check wiring between control and thermistor. Refer to wiring diagram for proper wiring.• Check control. Replace if inoperative.
EC:19 *Card Reader models only	Indicates no communication between control and card reader.	<ul style="list-style-type: none">• Check card reader. Replace if inoperative.• Check wire harness connecting card reader and control. Replace if inoperative.• Check control. Replace if inoperative.

Section 6

NetMaster Troubleshooting



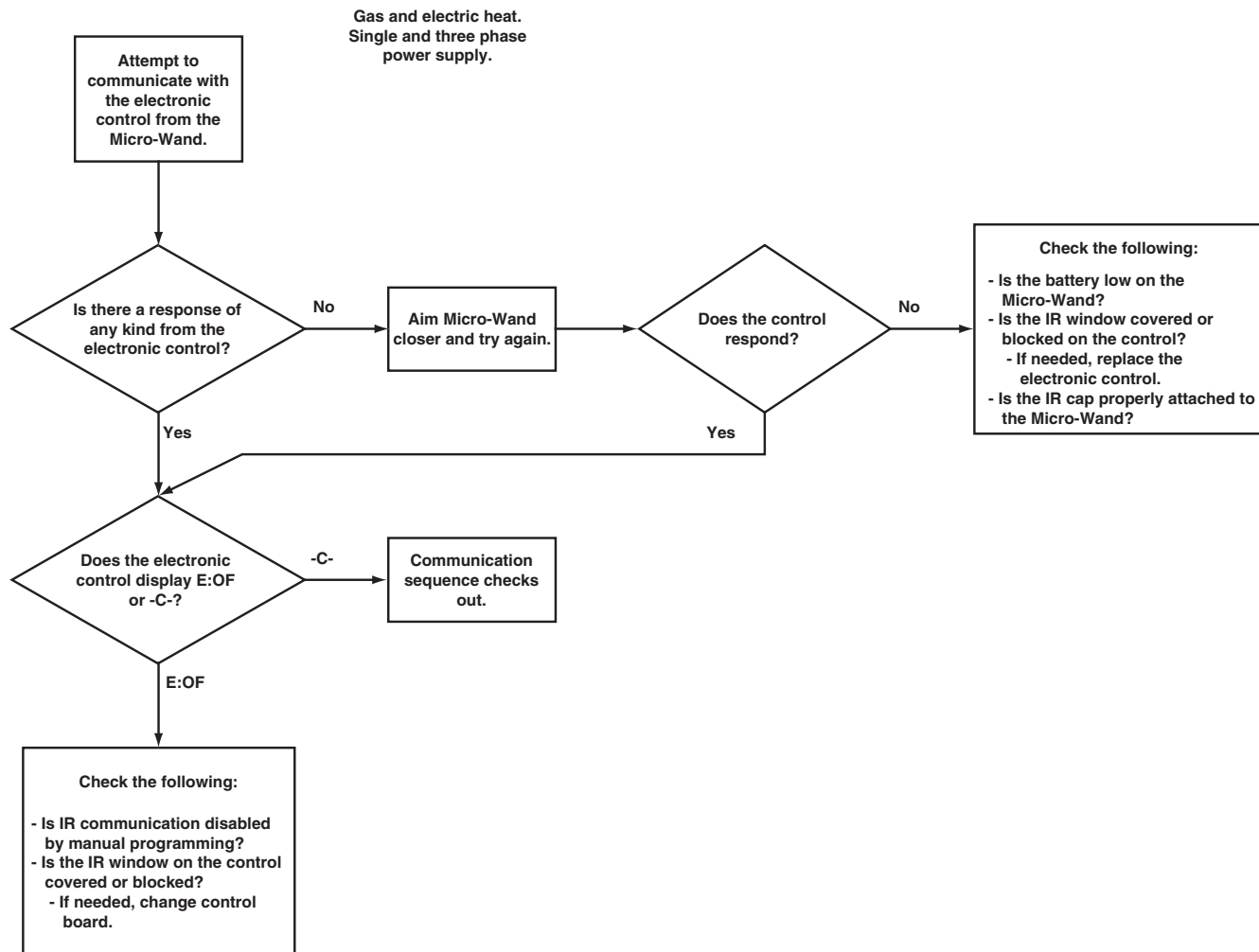
WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

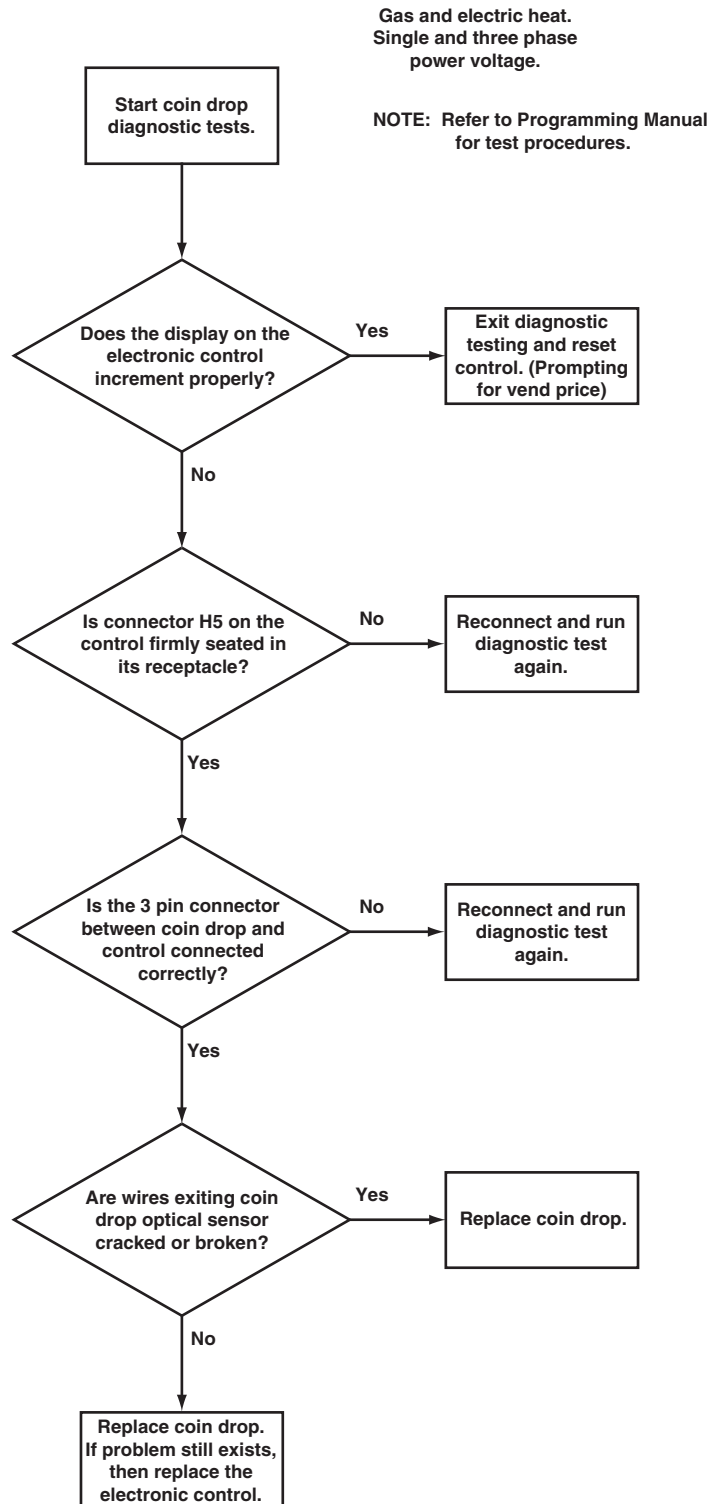
W002R1

47. No Infrared Communication



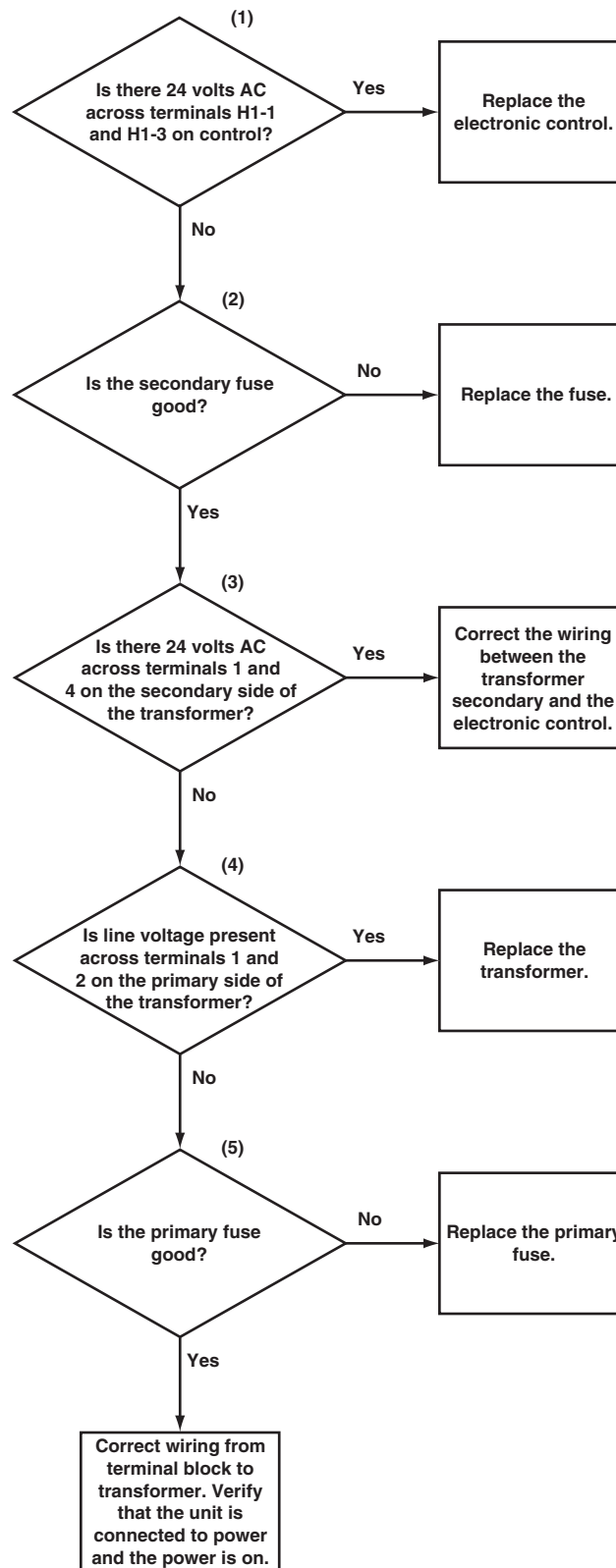
TMB1793S

48. Coins Ignored When Entered



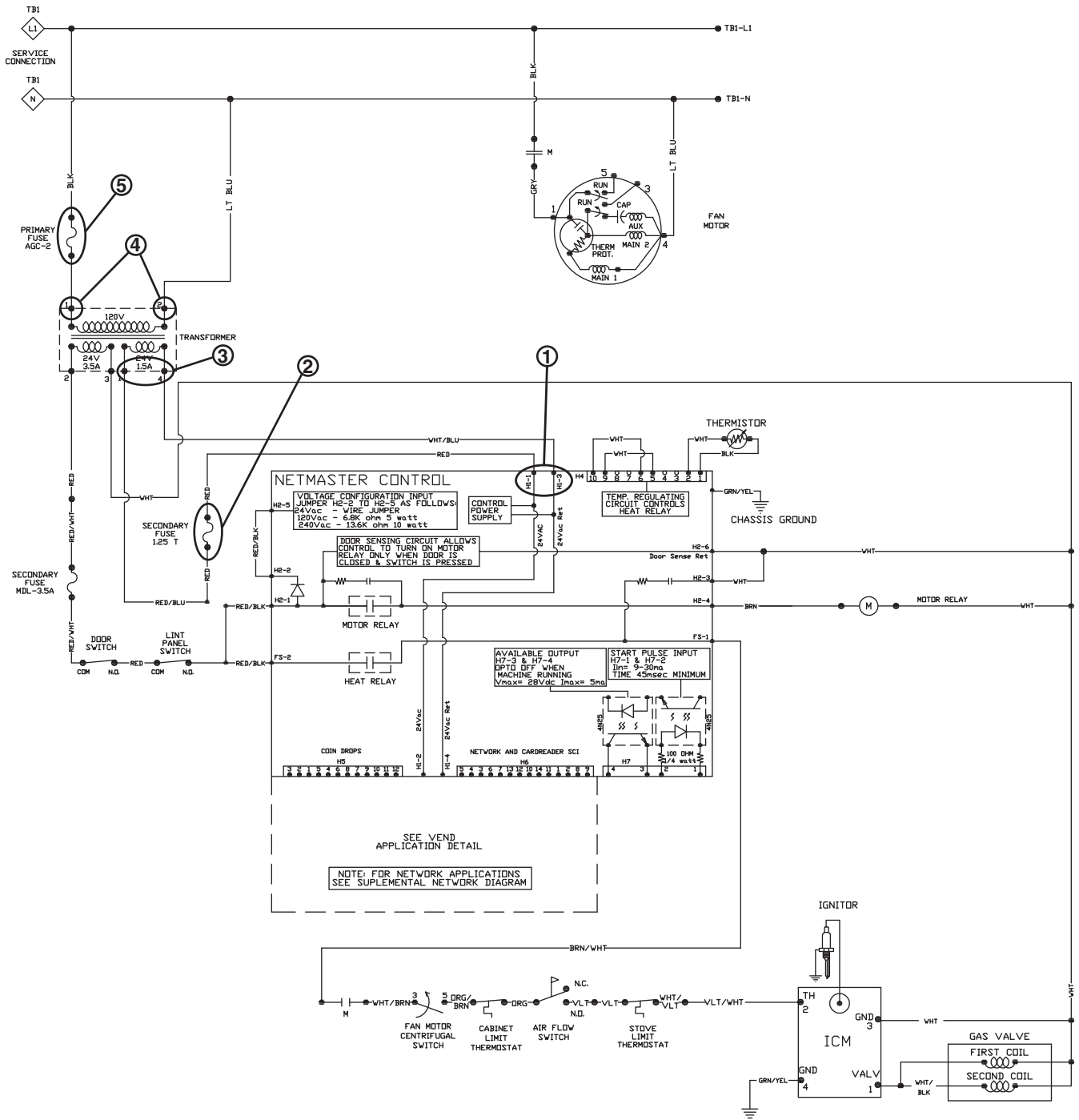
TMB1794S

49. No Display



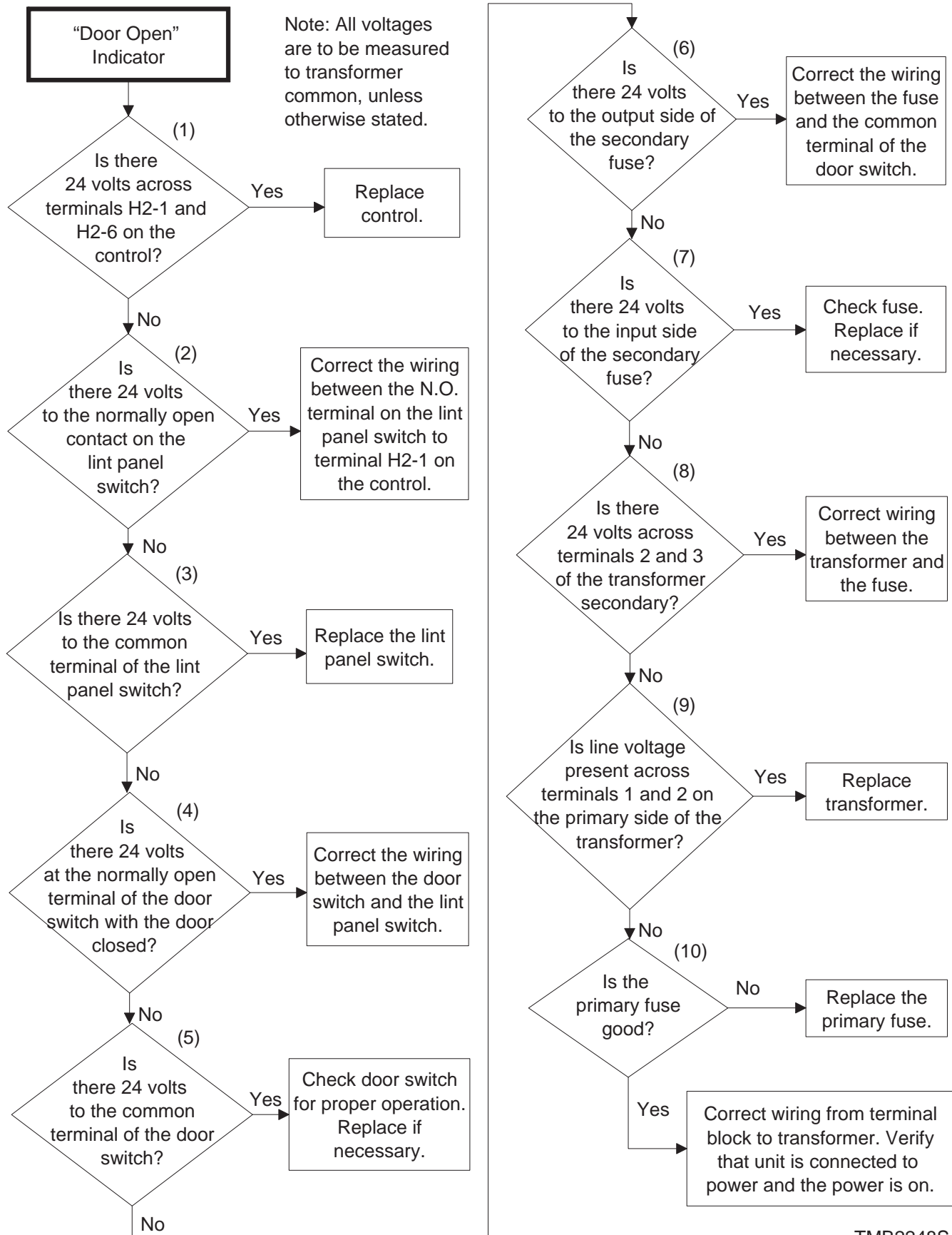
TMB1795S

No Display



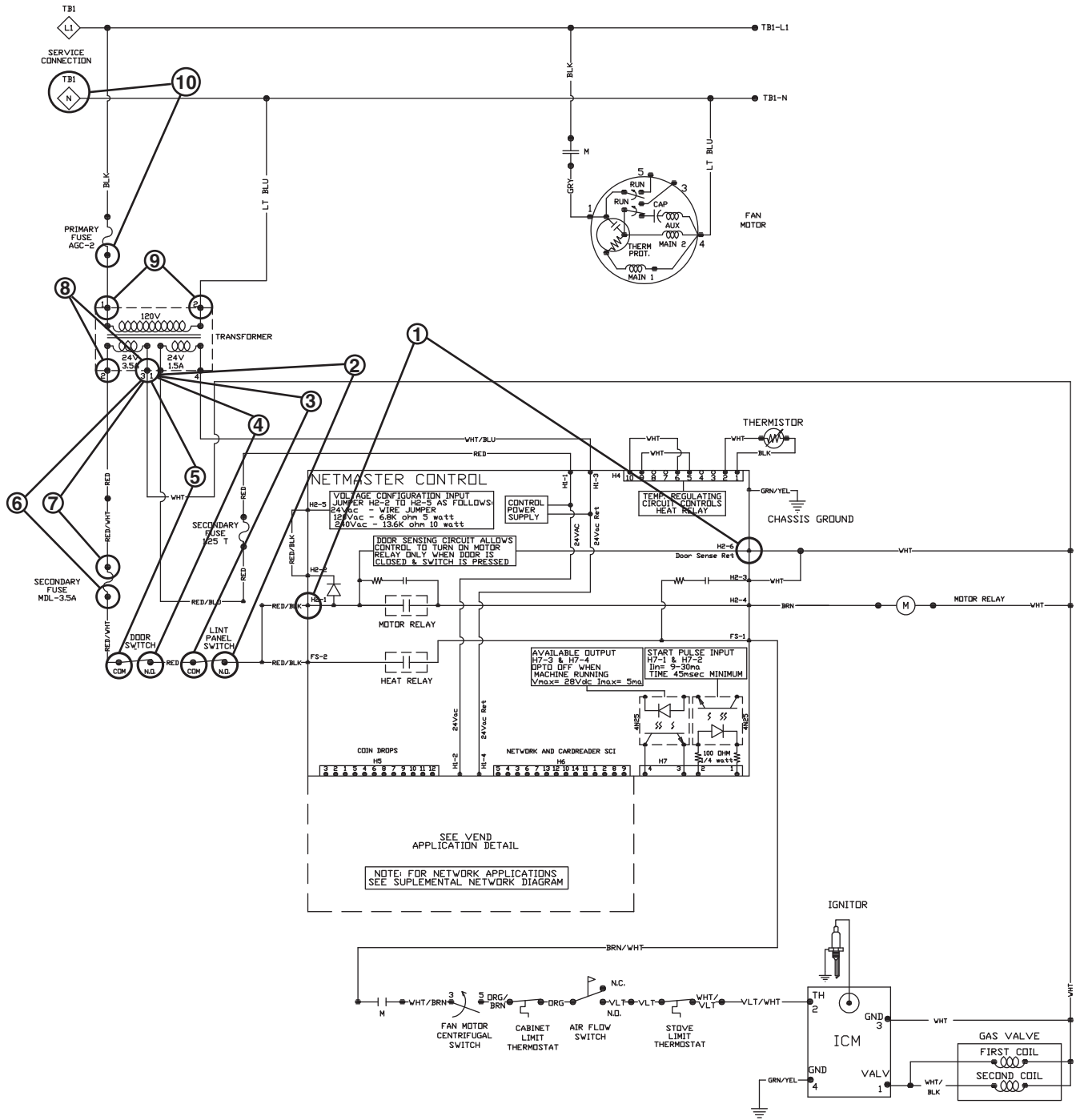
TMB1796S

50. "Door Open" Indicator



TMB2248S

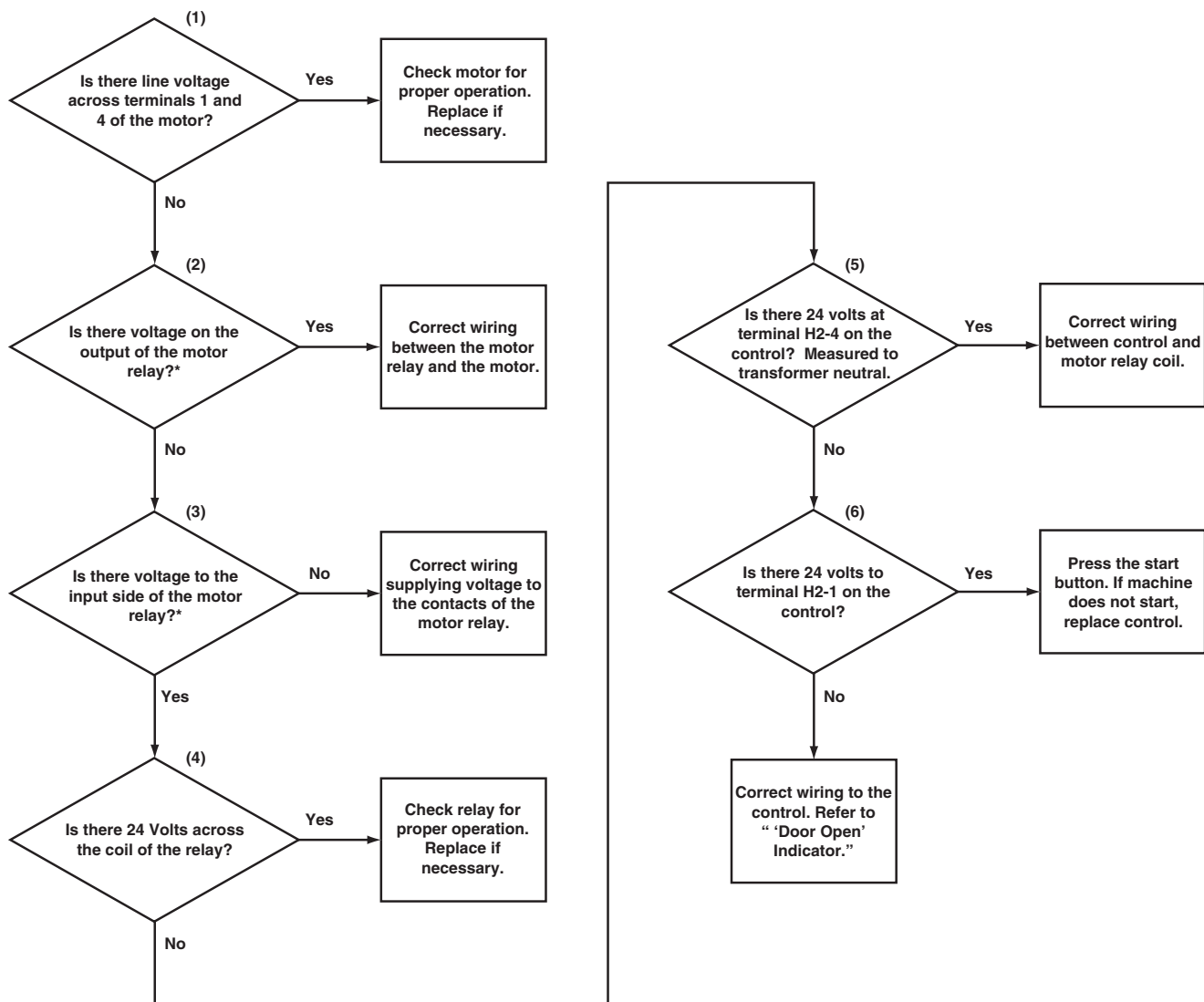
“Door Open” Indicator



TMB2249S

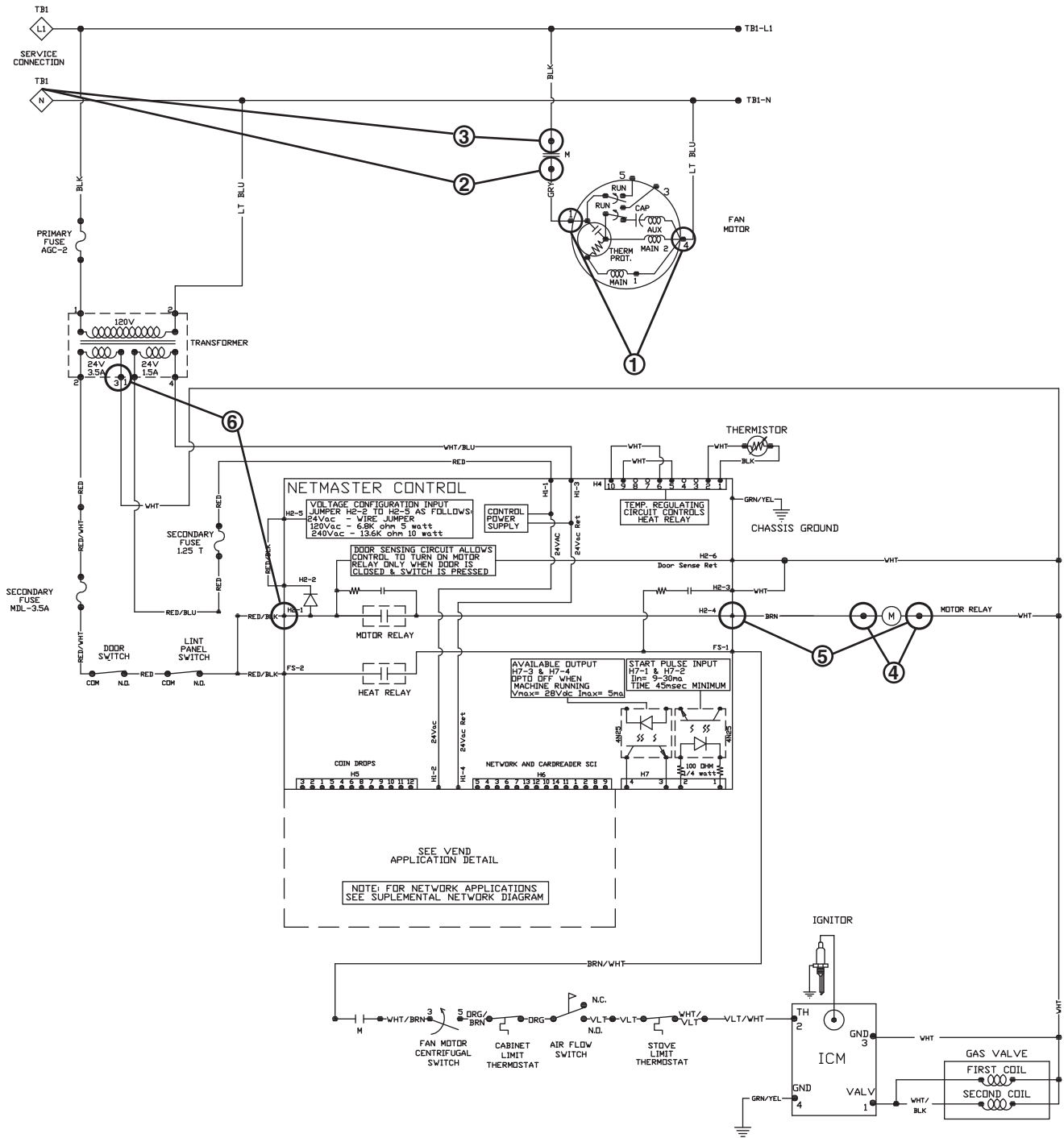
51. No Start/Run

*Note: For steps 2 and 3. For 208/240 1 phase, both lines to the motor are controlled by contacts. Please check second set of contacts.
For 3 phase units, the three legs supplied to the motor will be controlled by N.O. contacts. Please check all three legs.



TMB1799S

No Start/Run

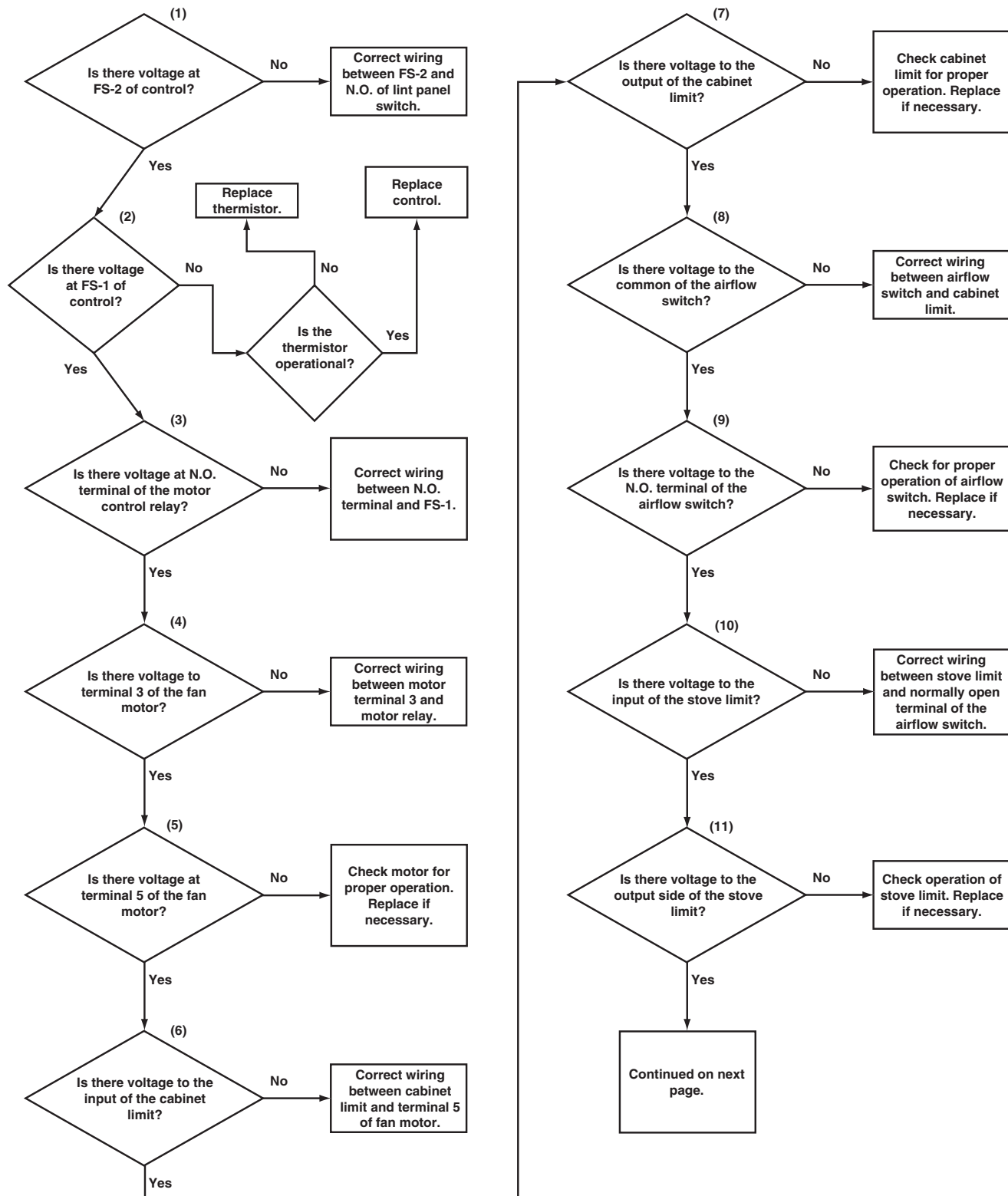


TMB1800S

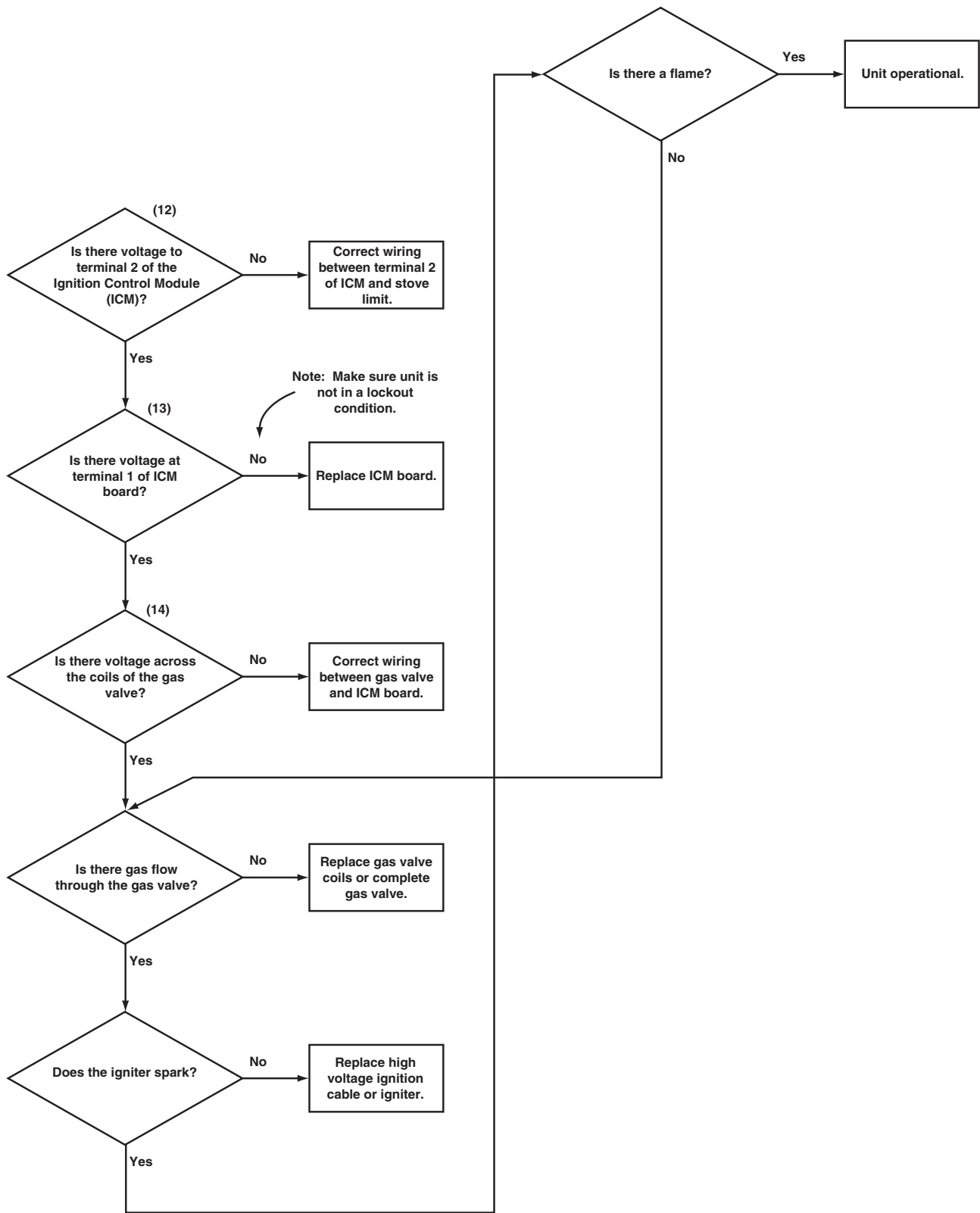
52. Unit Will Not Heat – Gas

Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.



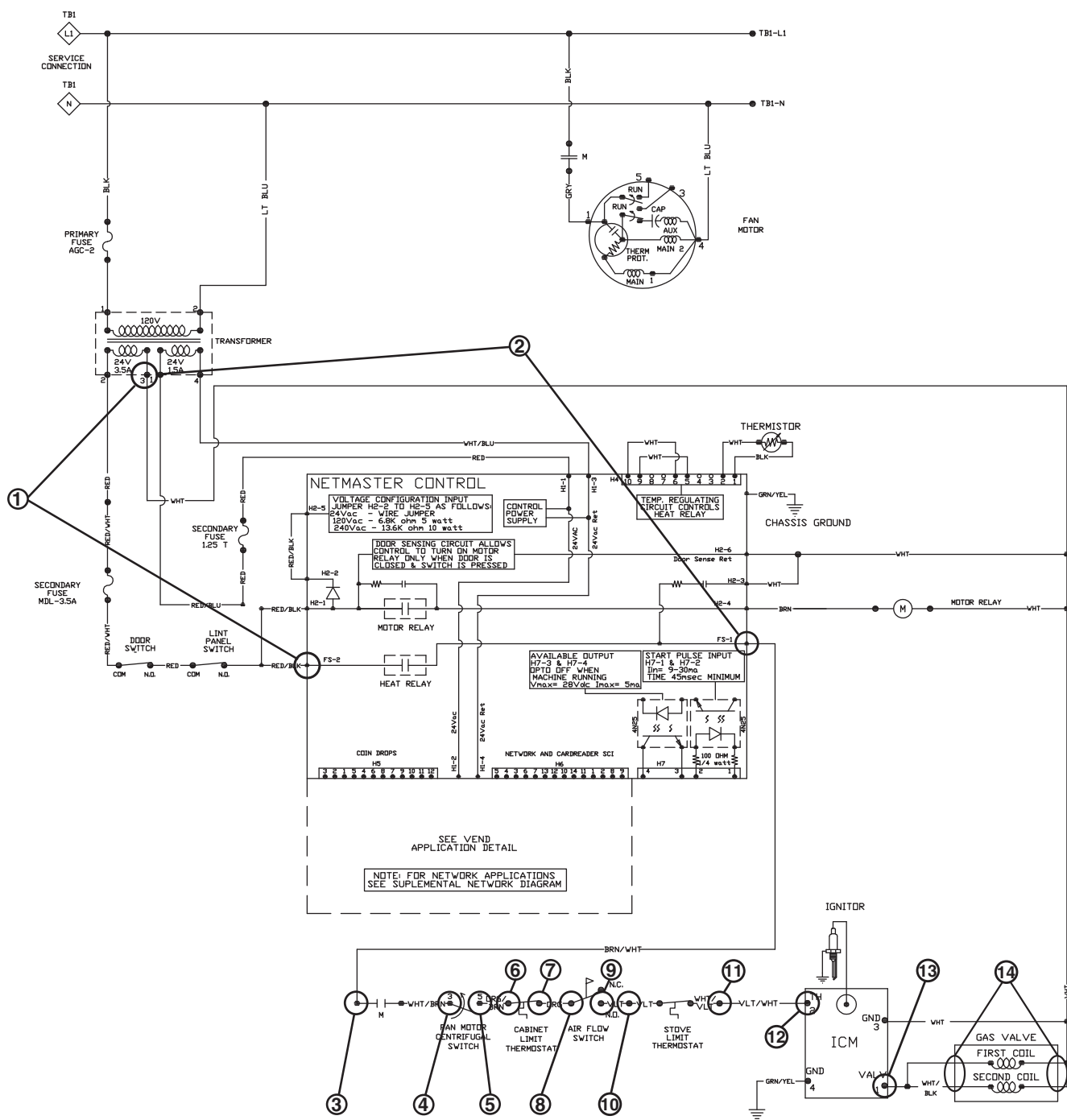
52. Unit Will Not Heat – Gas (continued)



TMB1801S

Please see following page for wiring diagram information.

Unit Will Not Heat – Gas

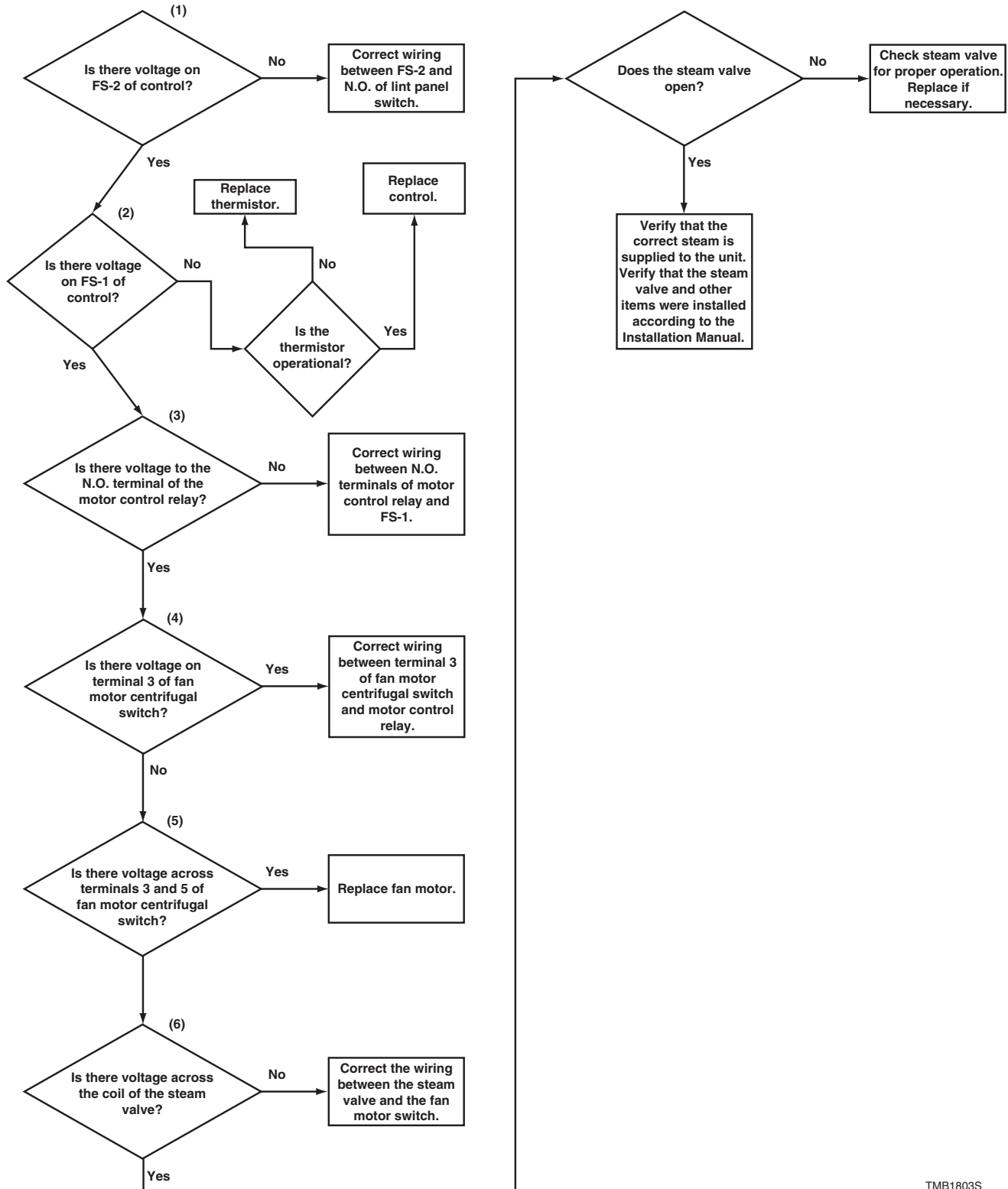


TMB1802S

53. Unit Will Not Heat – Steam

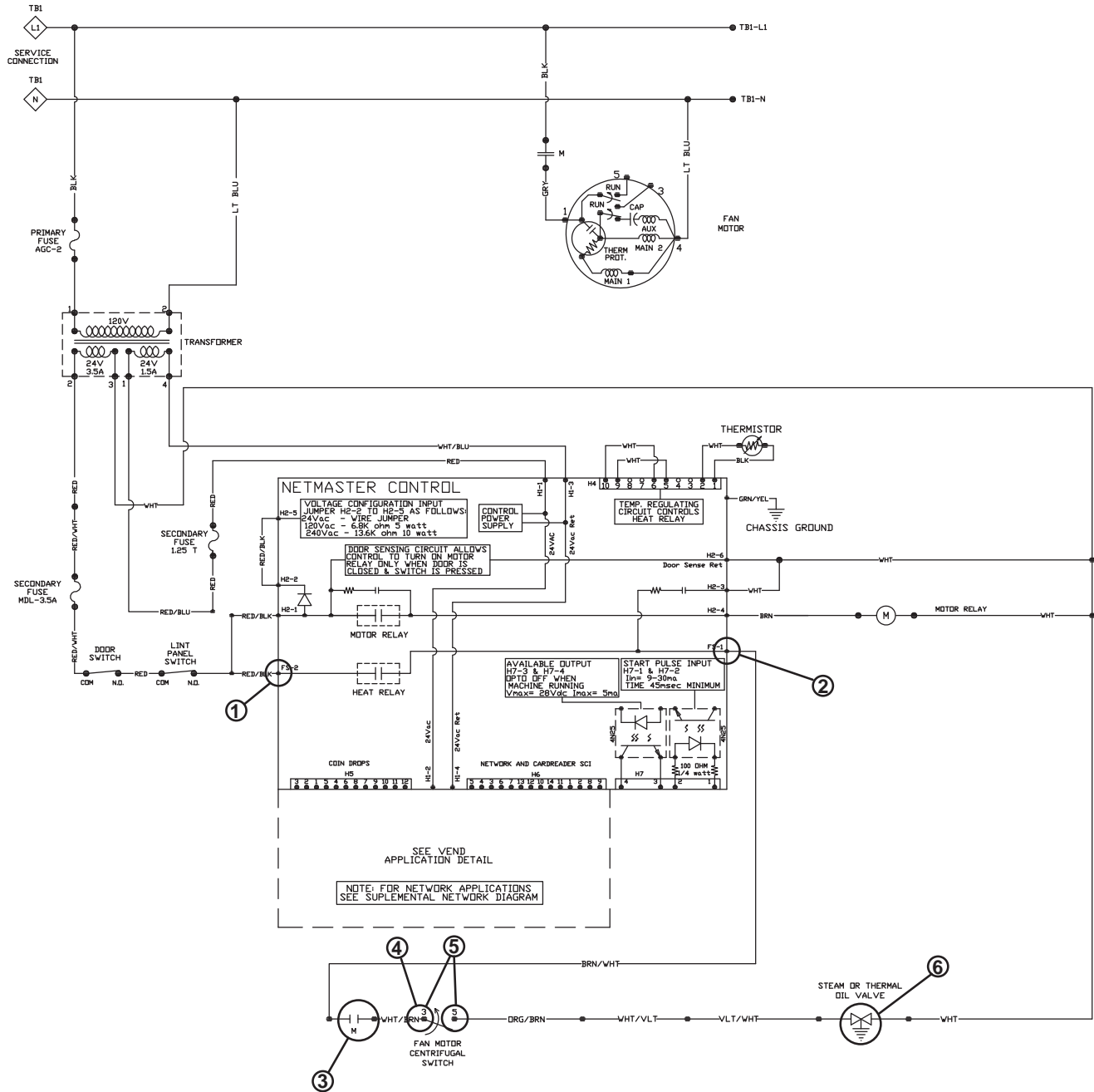
Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.



TMB1803S

Unit Will Not Heat – Steam

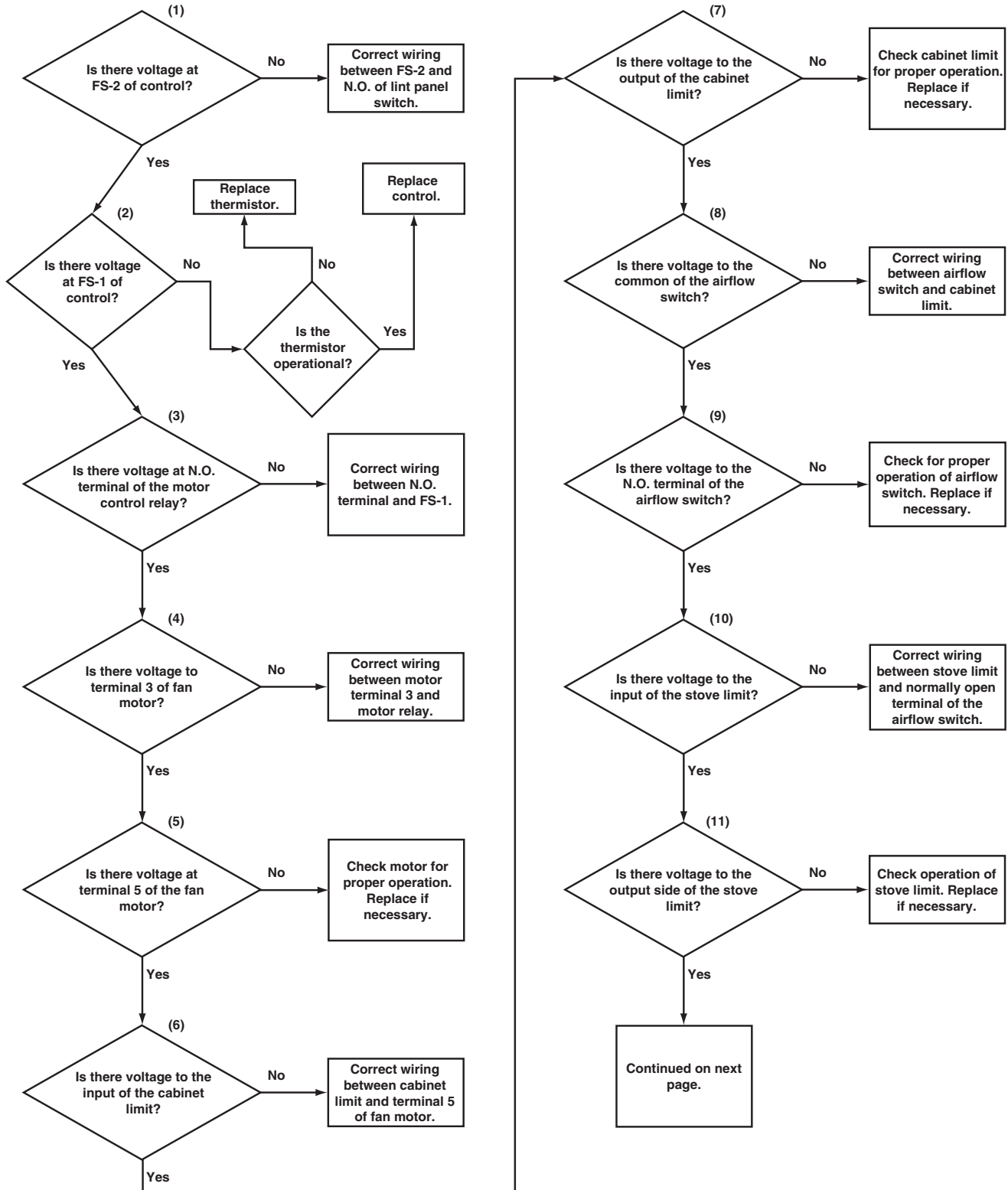


TMB1804S

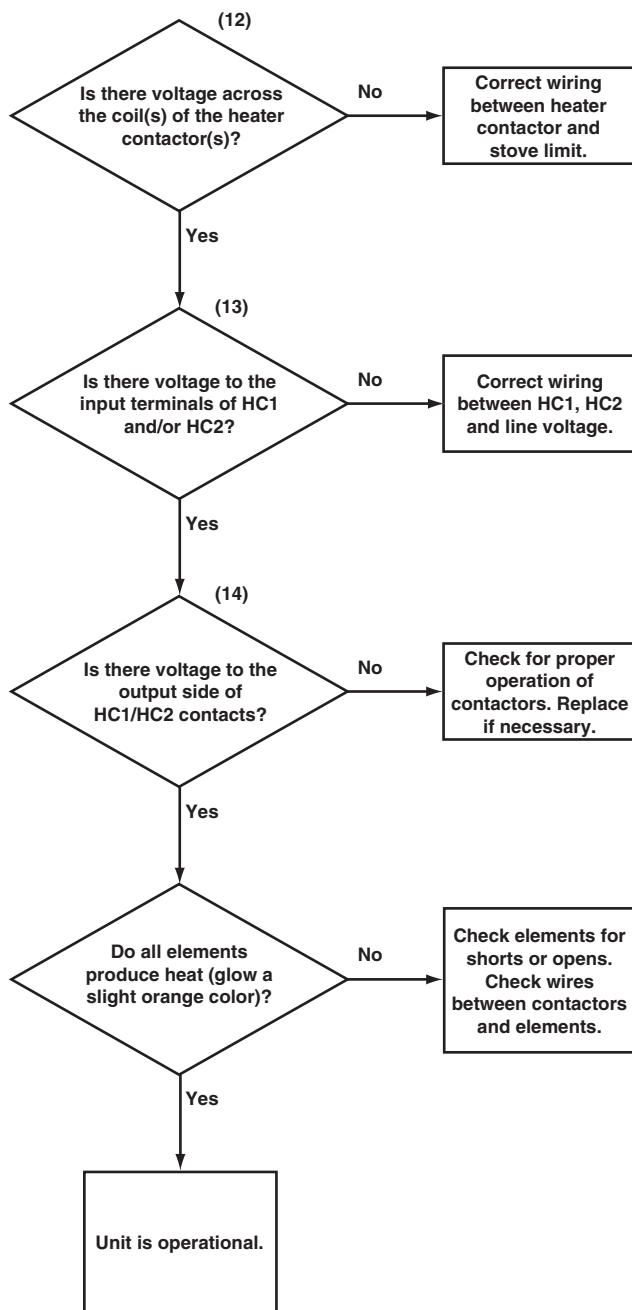
54. Unit Will Not Heat – Electric

Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.



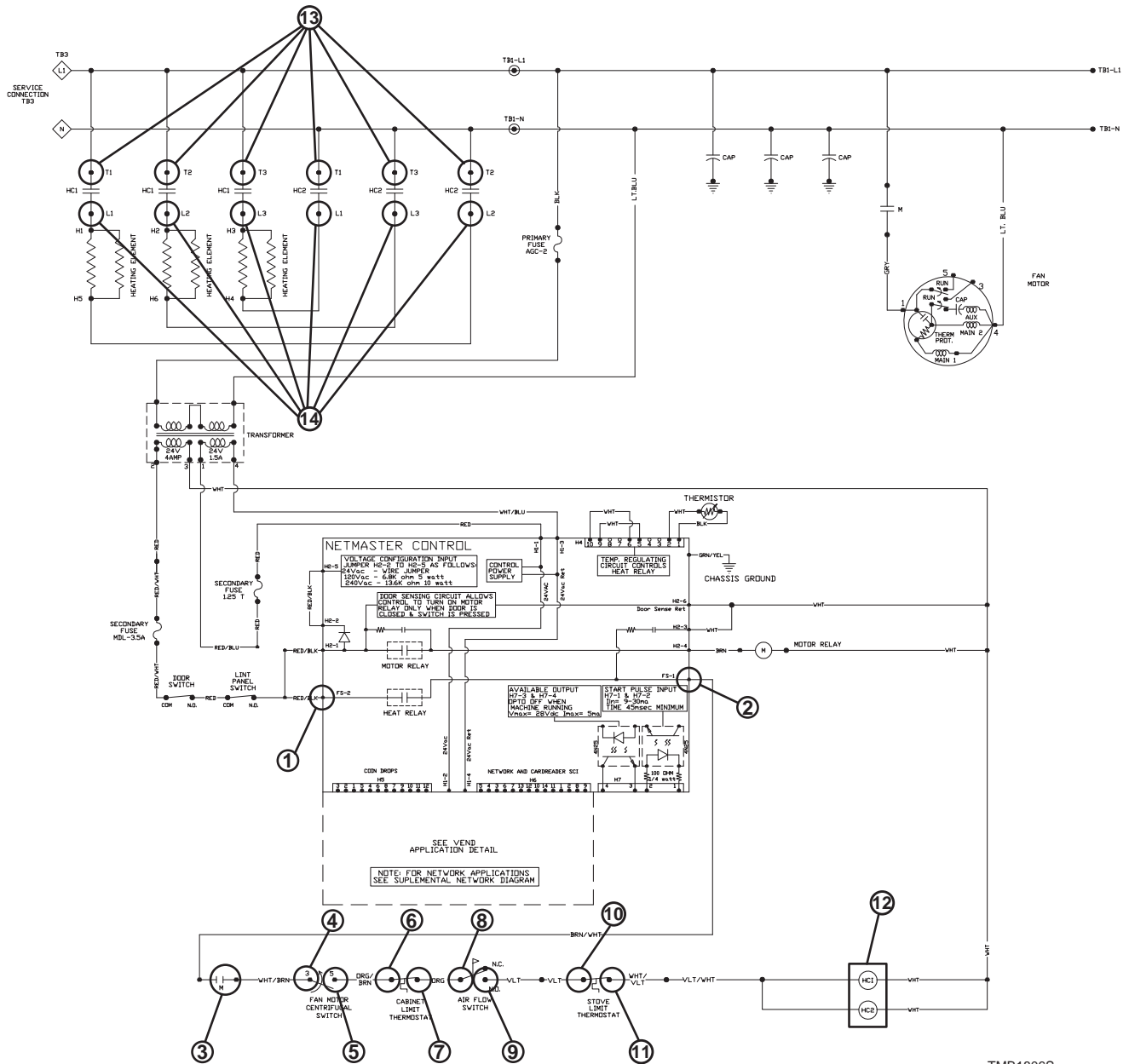
54. Unit Will Not Heat – Electric (continued)



TMB1805S

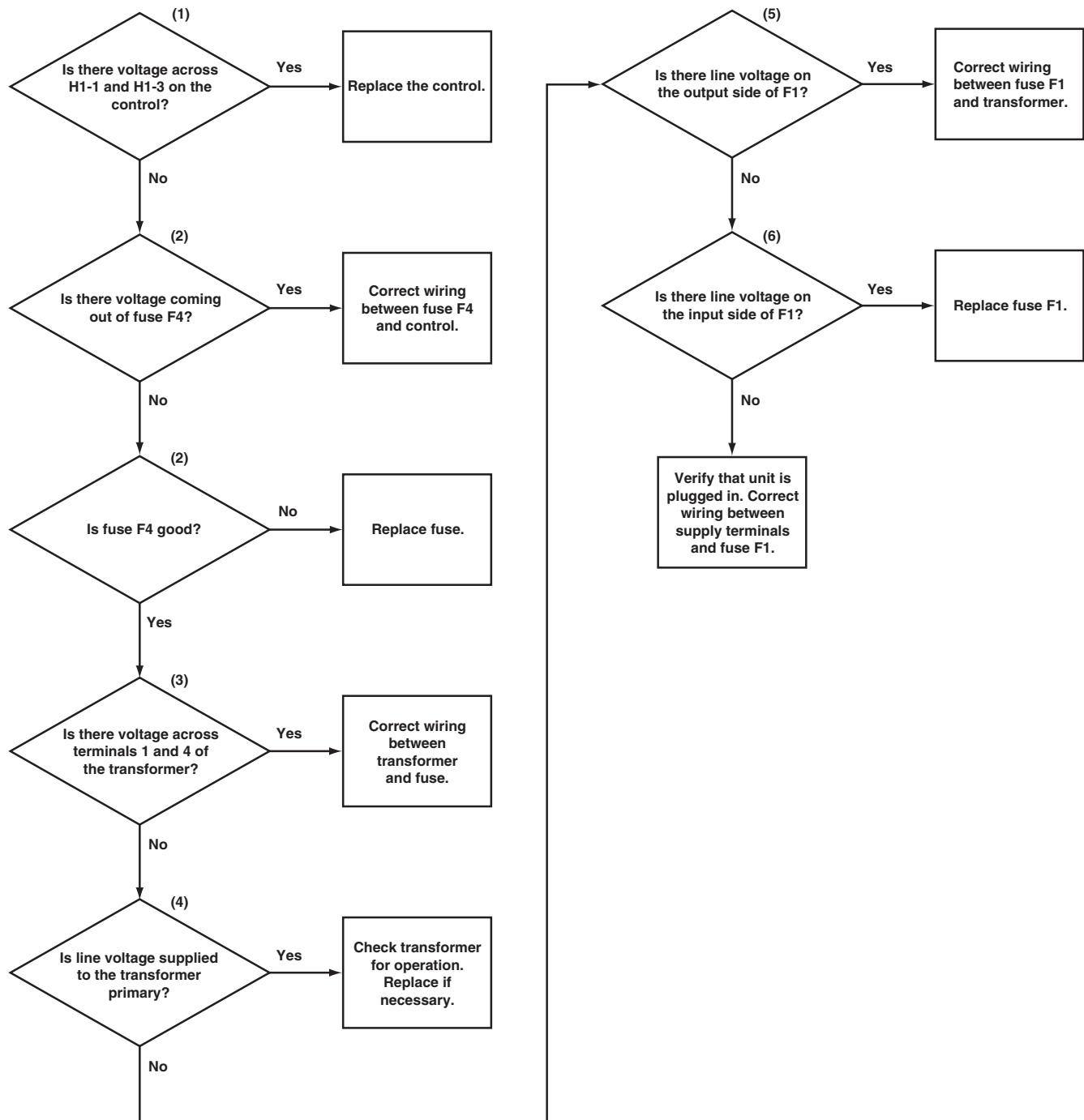
Please see following page for wiring diagram information.

Unit Will Not Heat – Electric



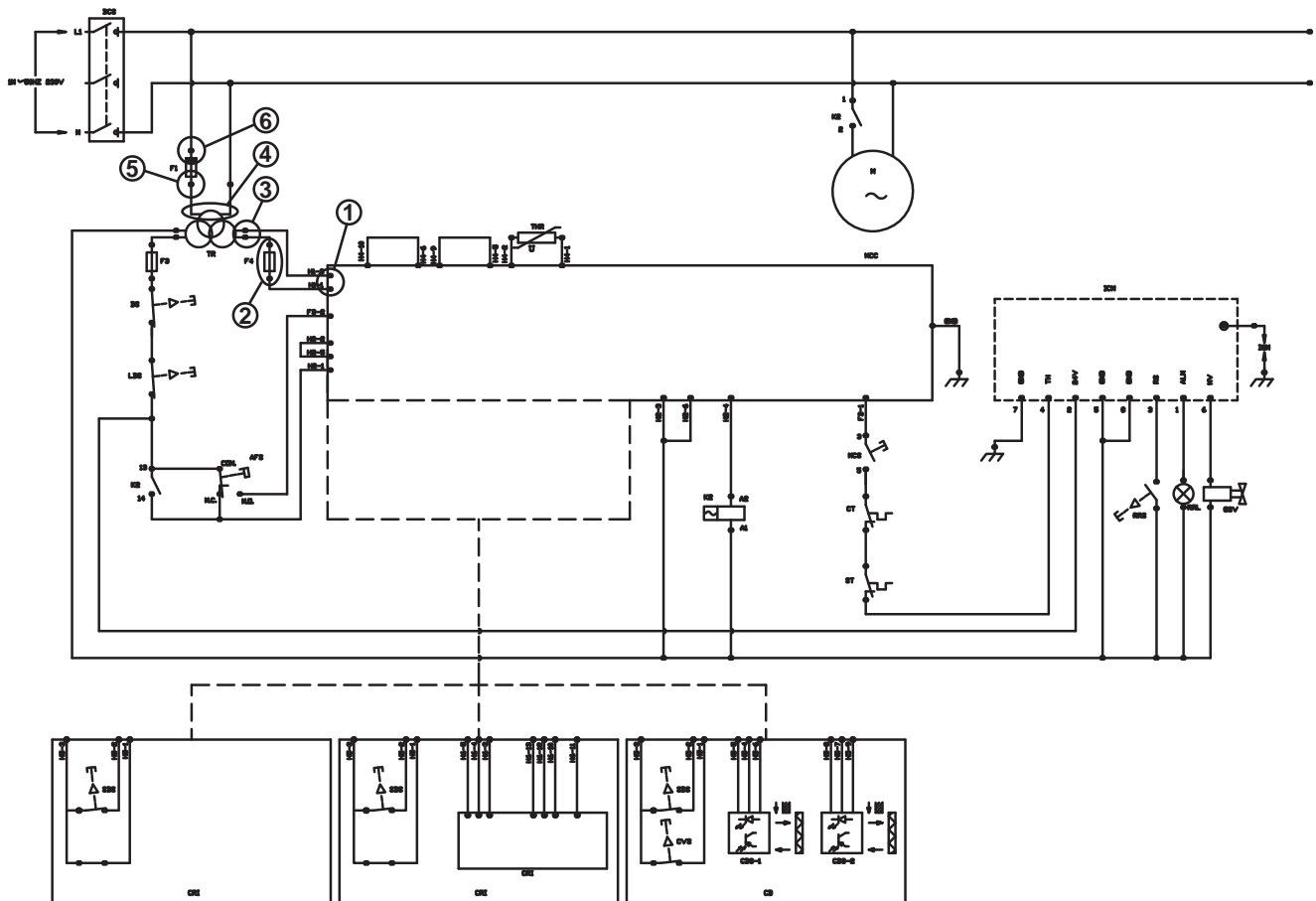
TMB1806S

55. CE Models No Display



TMB1807S

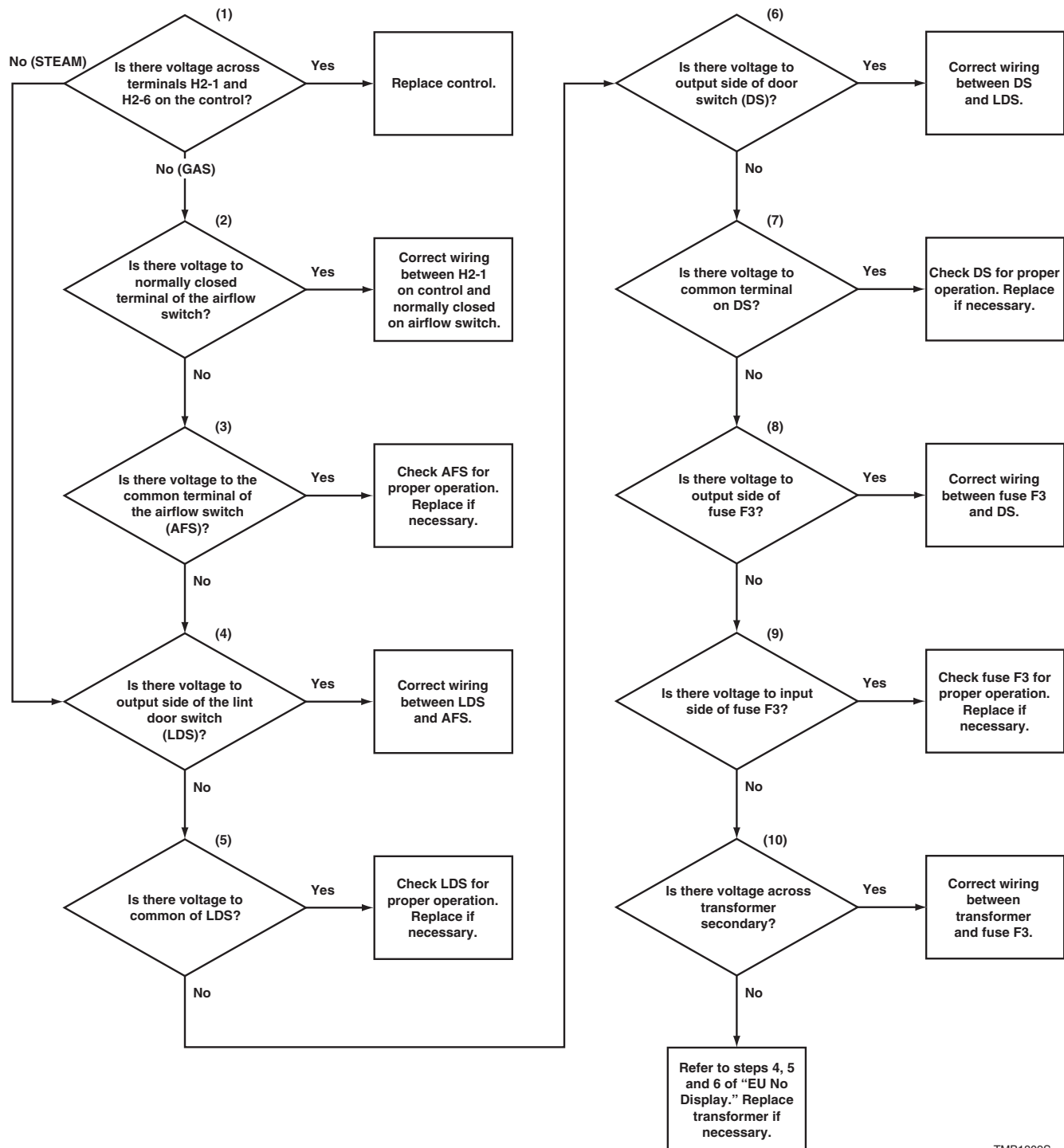
CE Models No Display



TMB1808S

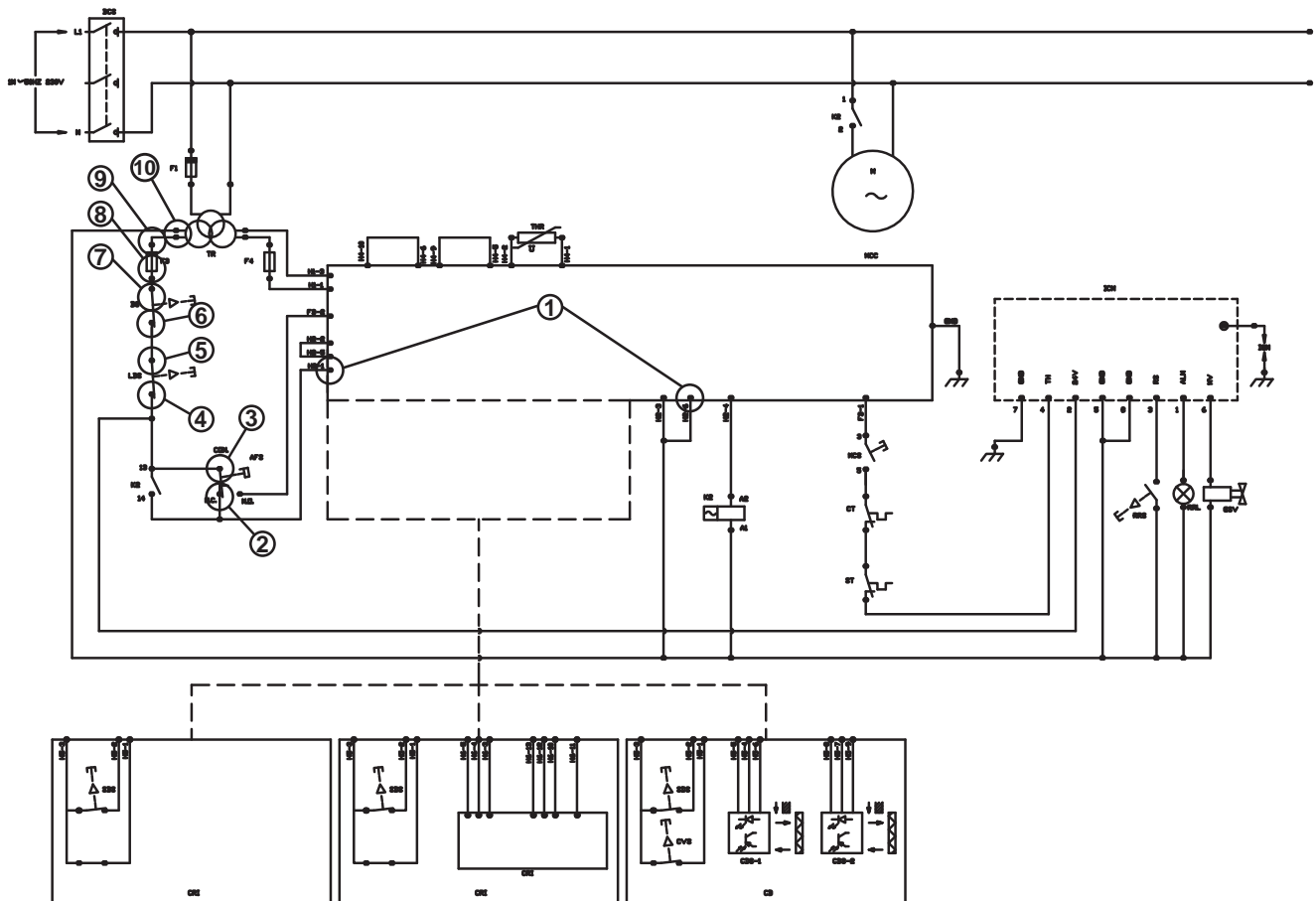
56. CE Models “Door Open” Indicator

Note: All voltage checks are referenced to the transformer neutral unless otherwise stated.



TMB1809S

CE Models "Door Open" Indicator

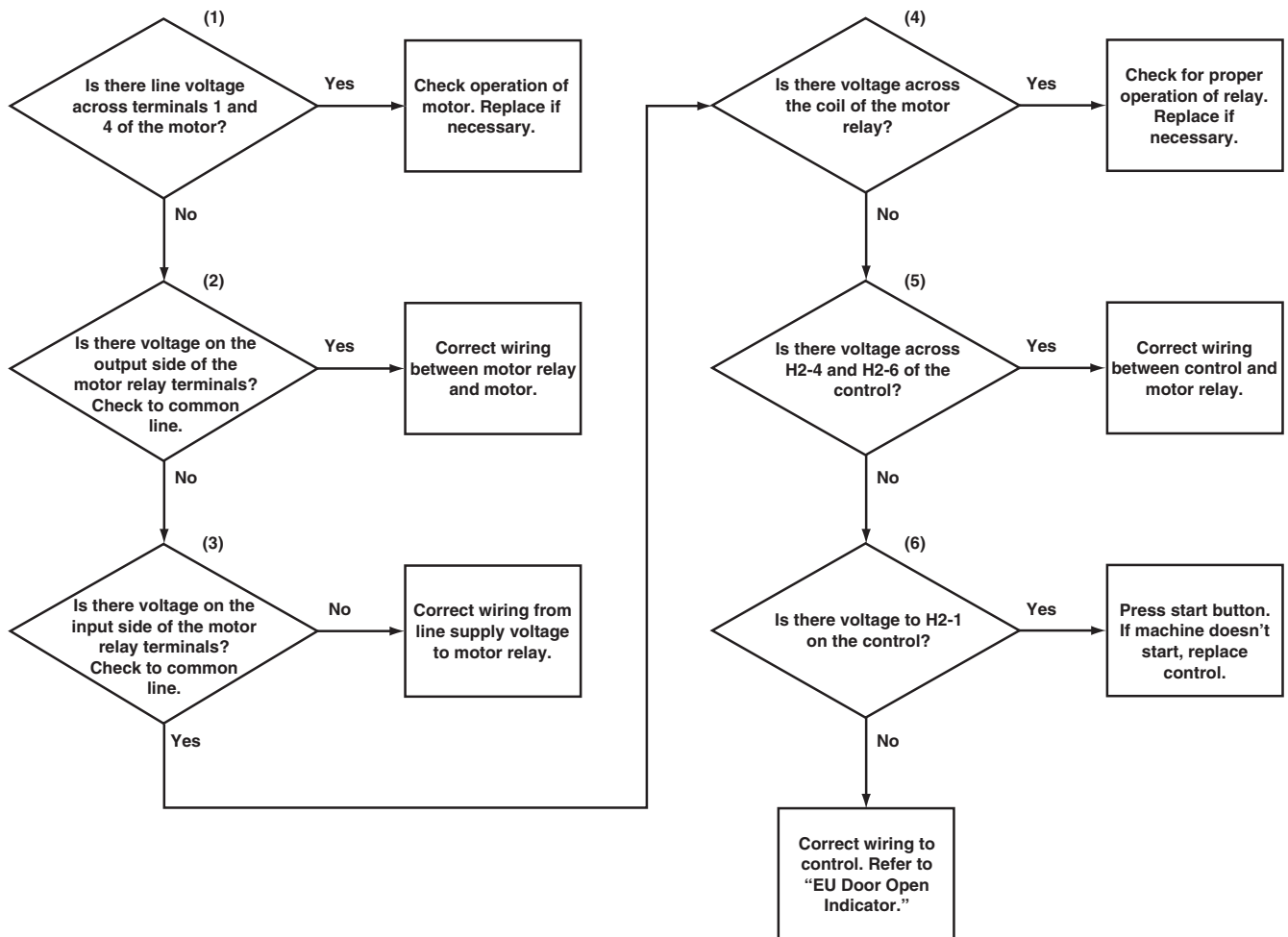


TMB1810S

57. CE Models No Start/Run

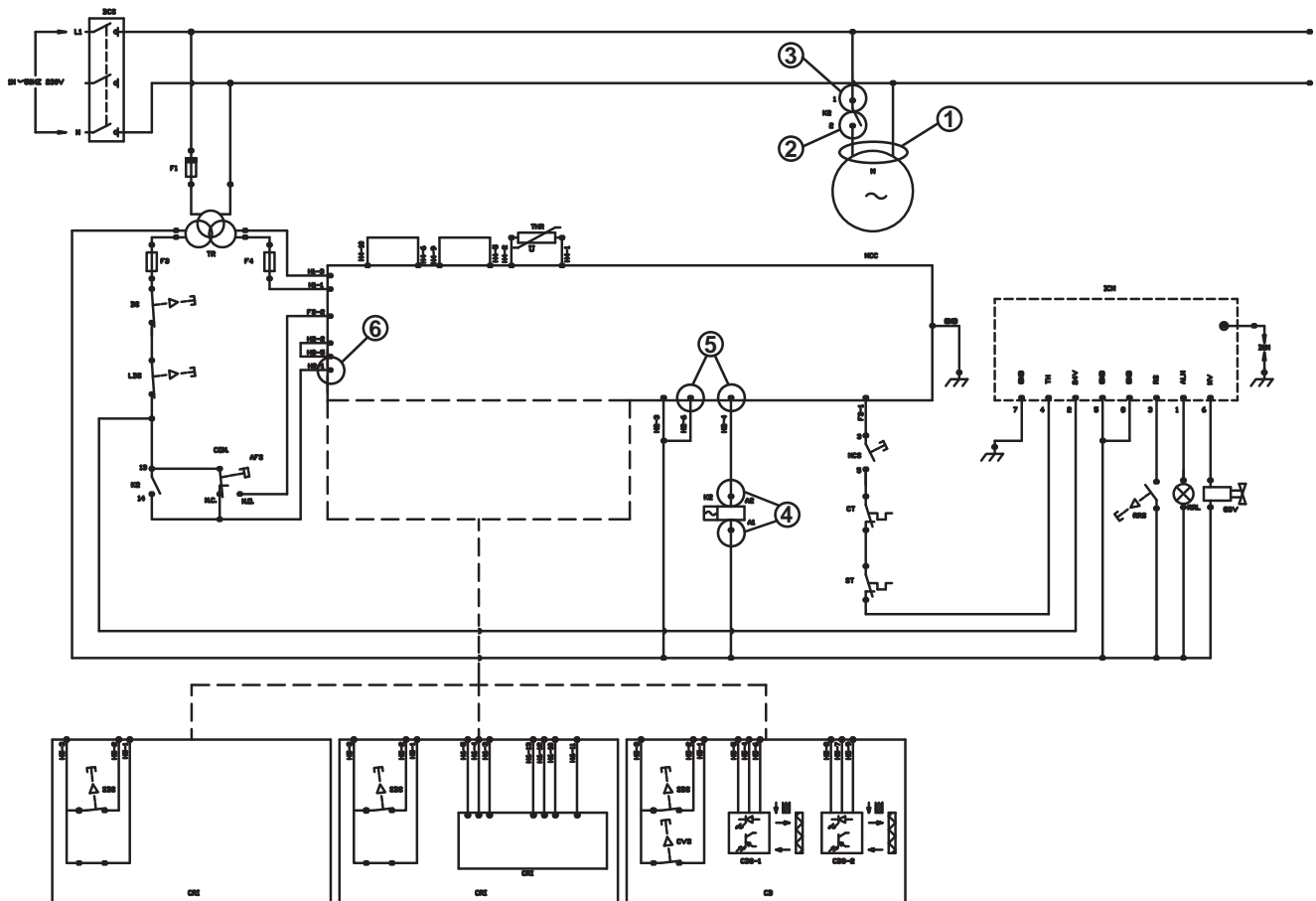
Note: Voltage checks referenced to transformer neutral unless otherwise stated.

Note: Common can be neutral or live wire depending on voltage and phase.



TMB1811S

CE Models No Start/Run

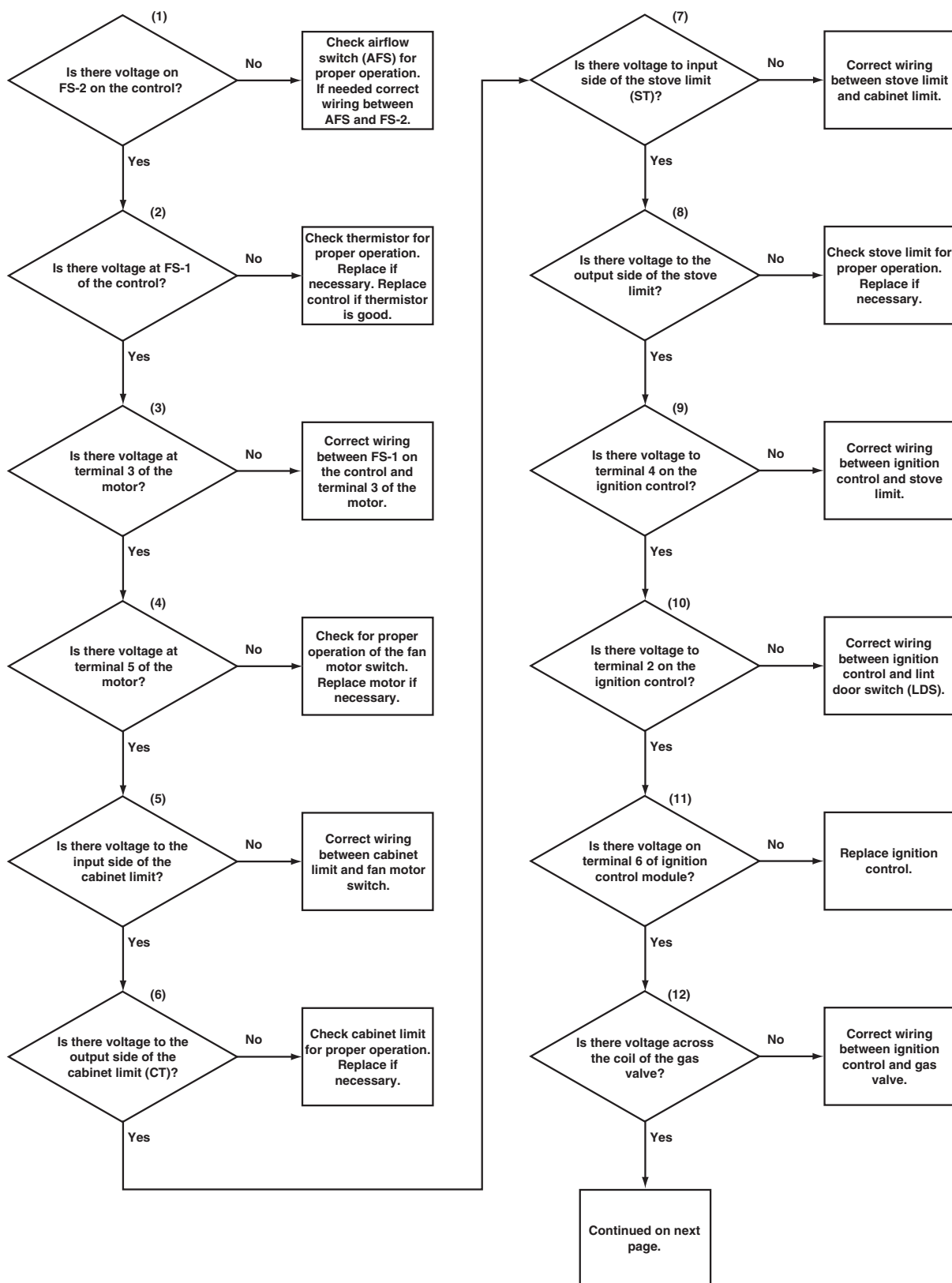


TMB1812S

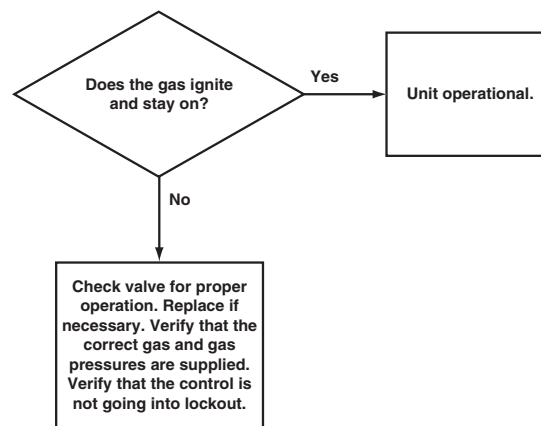
58. CE Models Will Not Heat – Gas

Note: Test conducted with unit running and calling for heat.

Note: Voltage checks referenced to neutral unless otherwise stated.



58. CE Models Will Not Heat – Gas (continued)

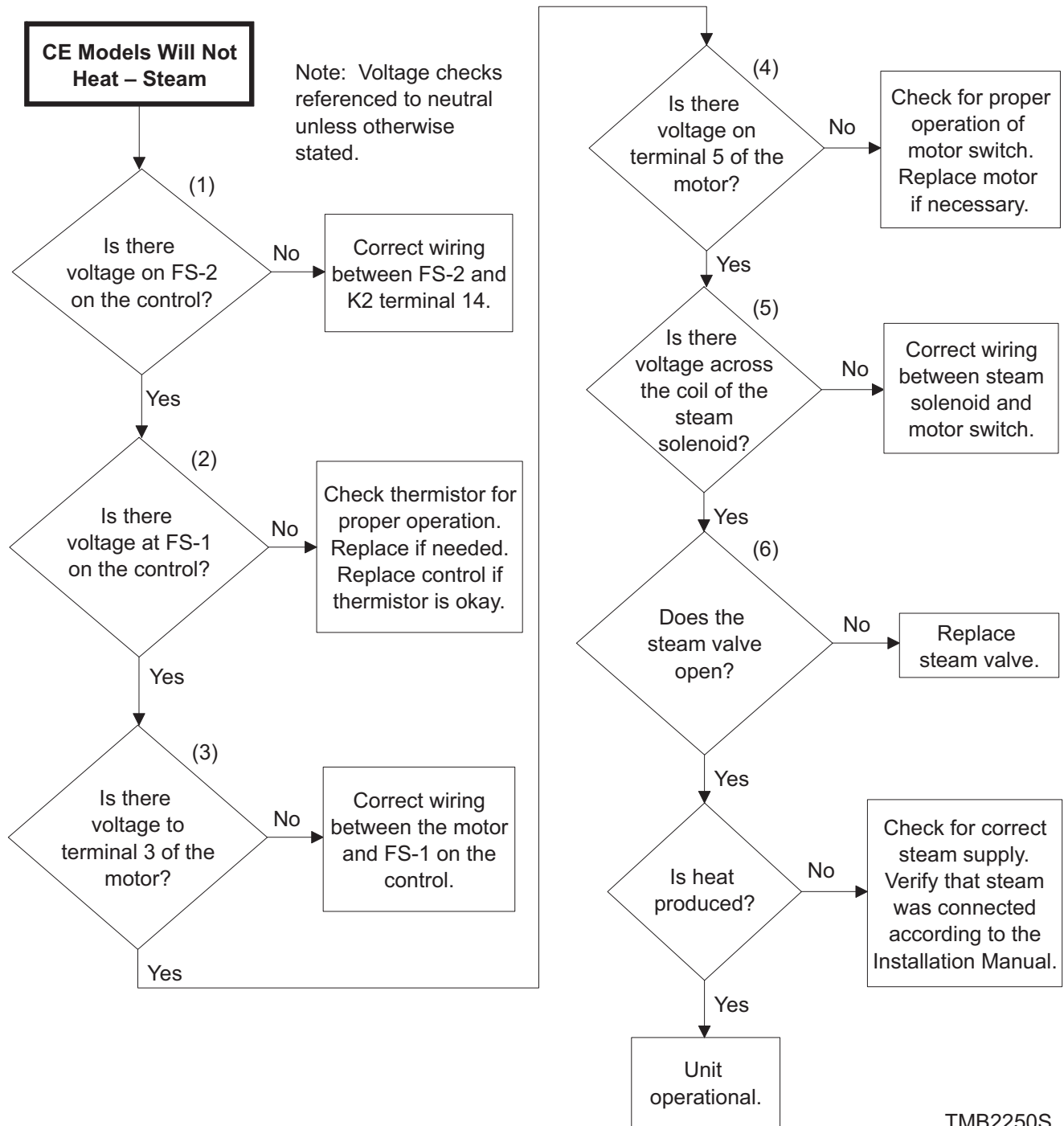


TMB1813S

Please see following page for wiring diagram information.



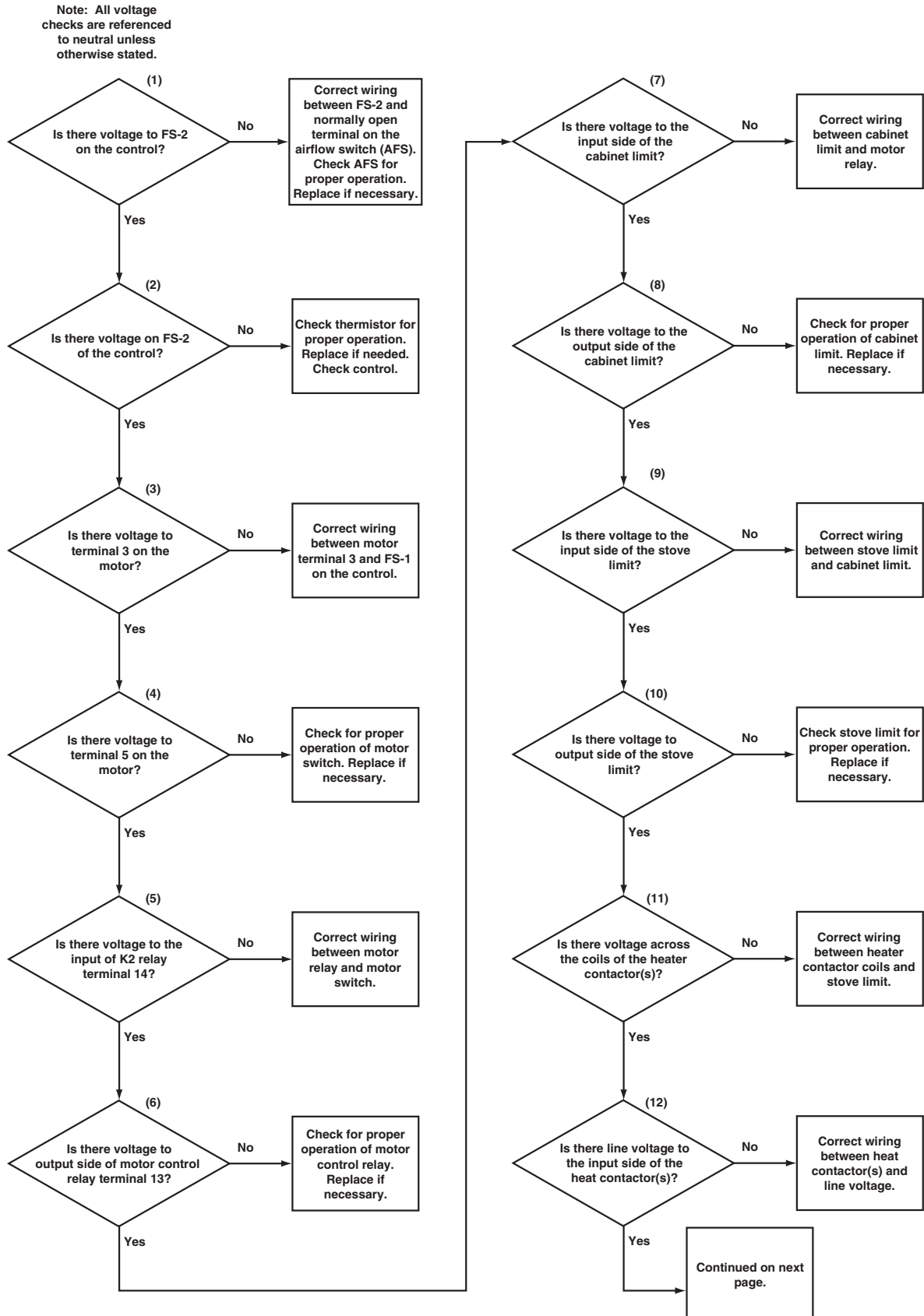
59. CE Models Will Not Heat – Steam



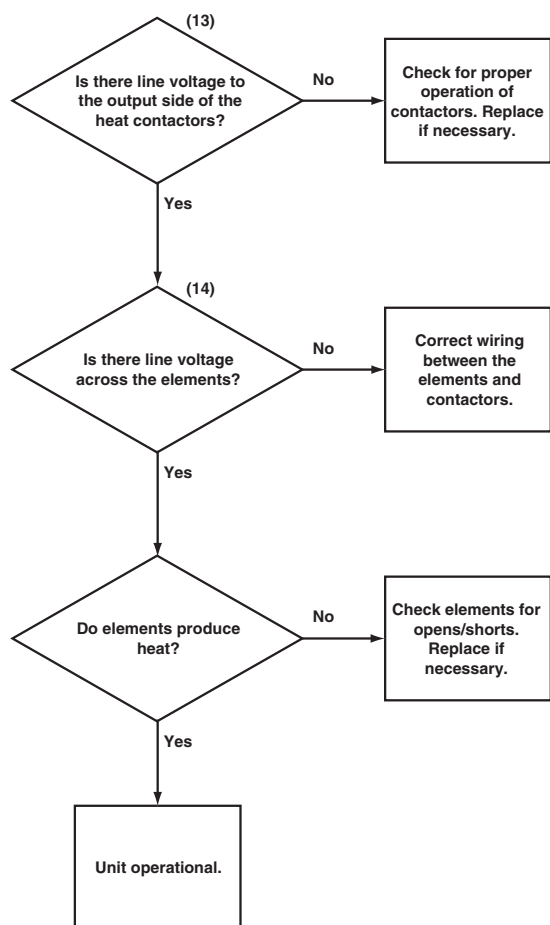
TMB2250S



60. CE Models Will Not Heat – Electric

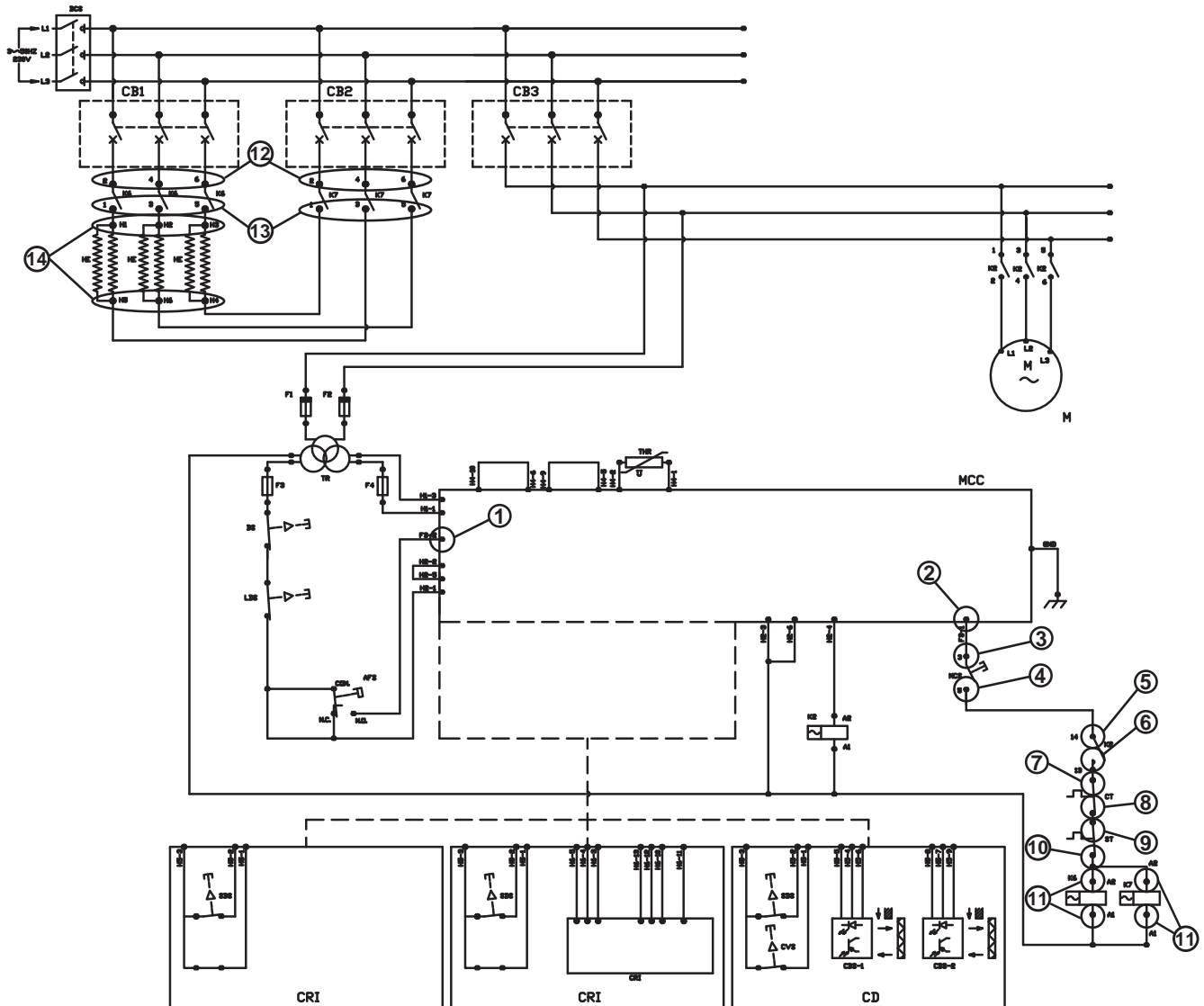


60. CE Models Will Not Heat – Electric (continued)



TMB1817S

CE Models Will Not Heat – Electric



TMB1818S

Notes

[illegible]

Section 7

On Premise Micro Control (OM)

Troubleshooting



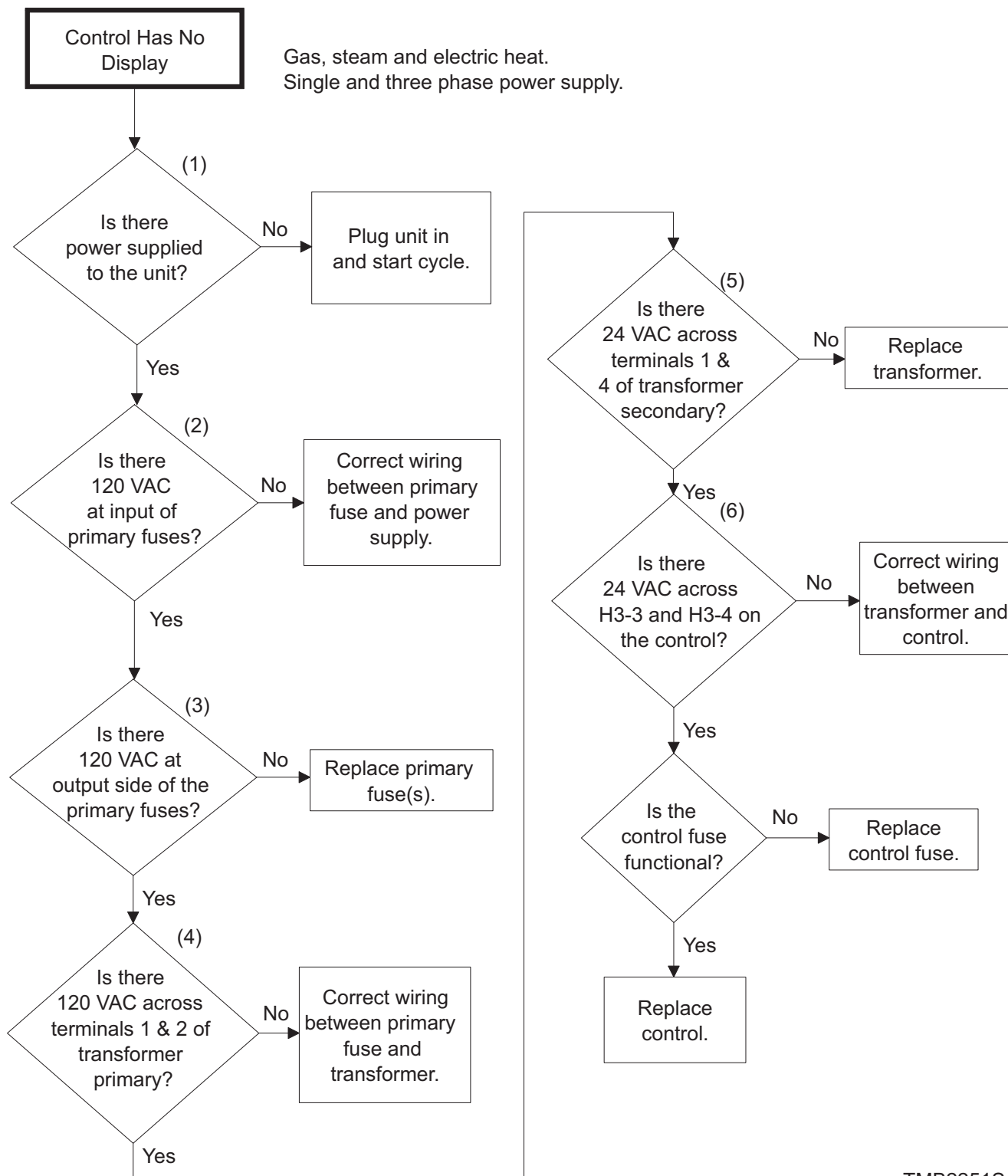
WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

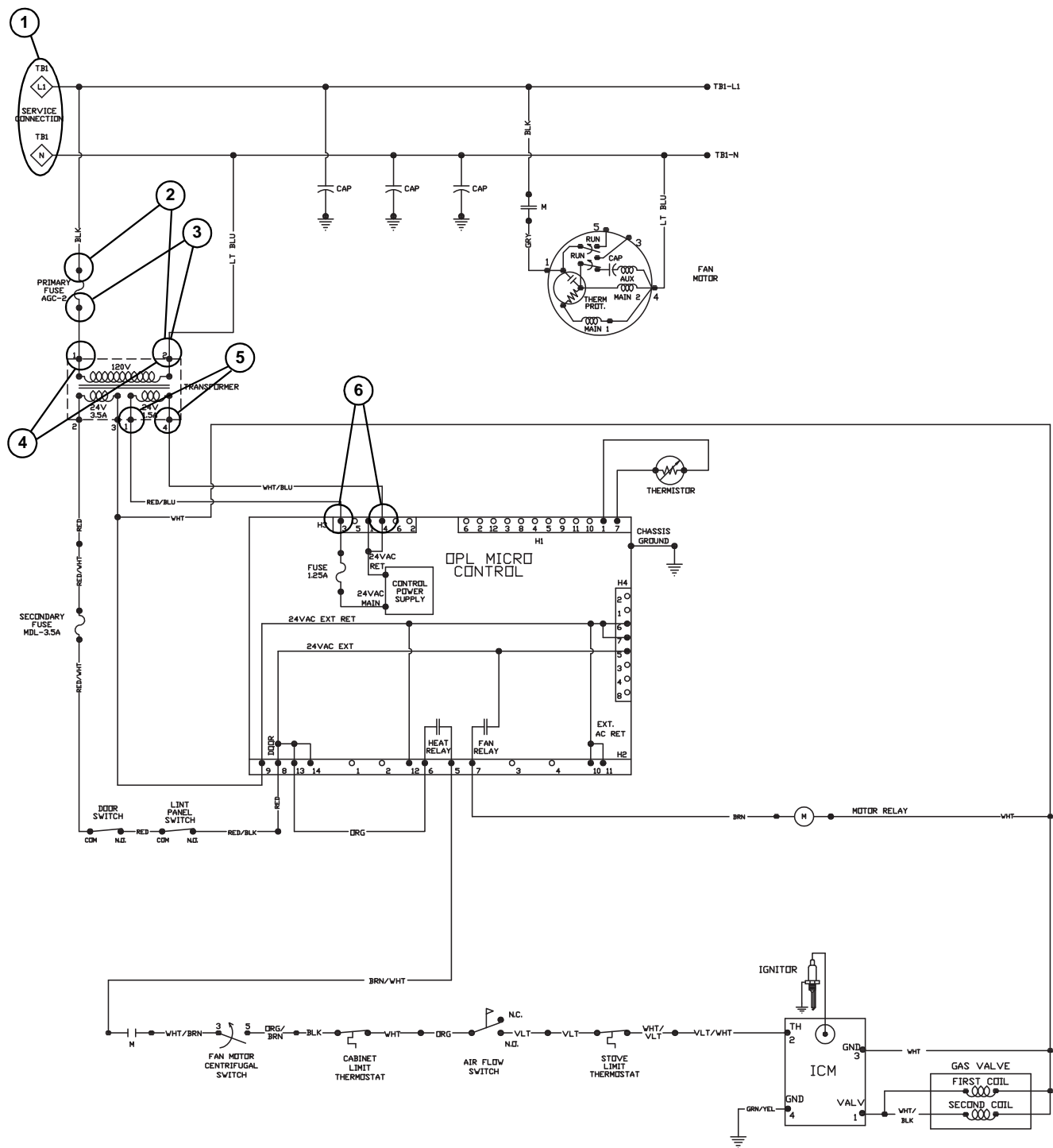
W002R1

61. Control Has No Display



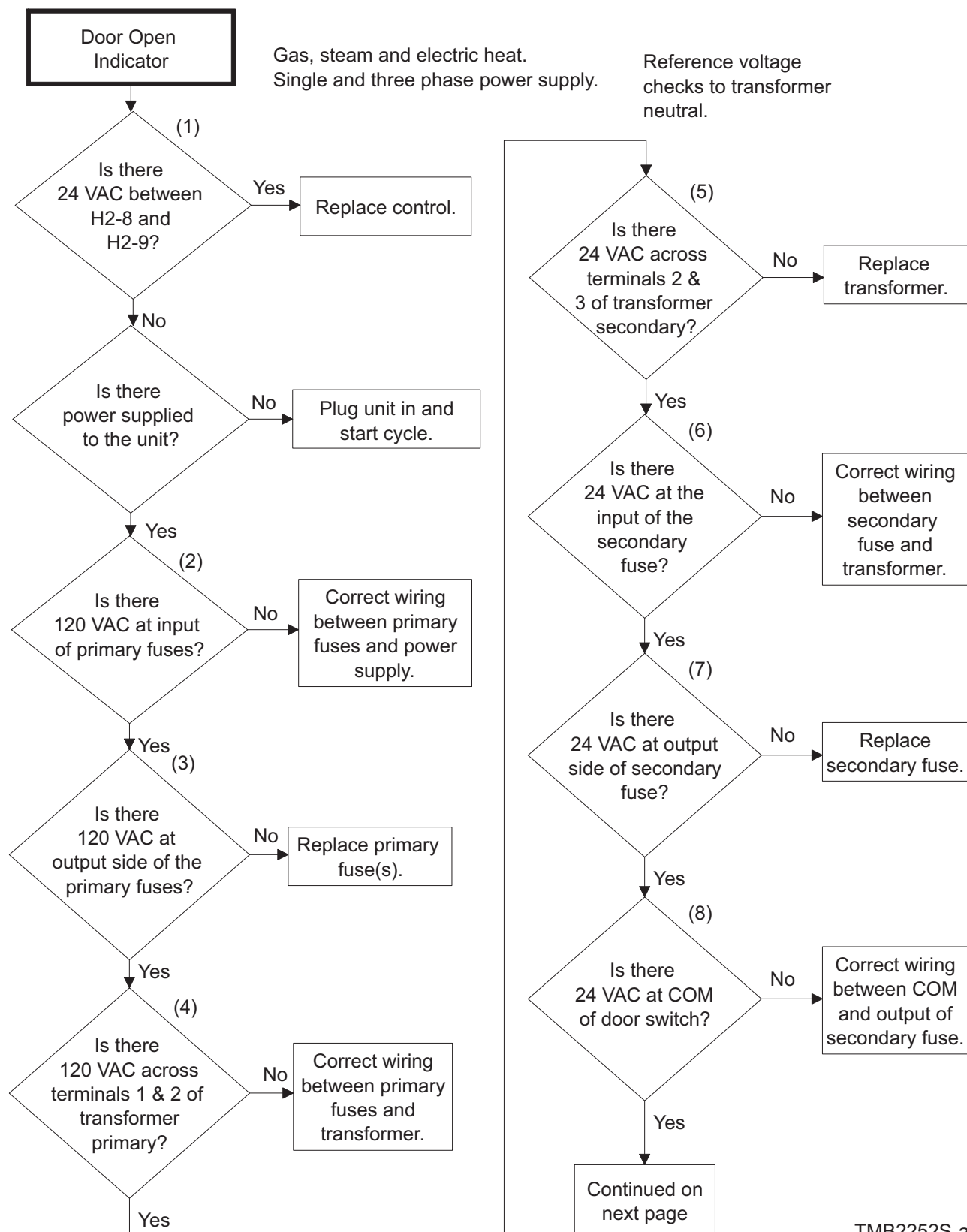
TMB2251S

Control Has No Display



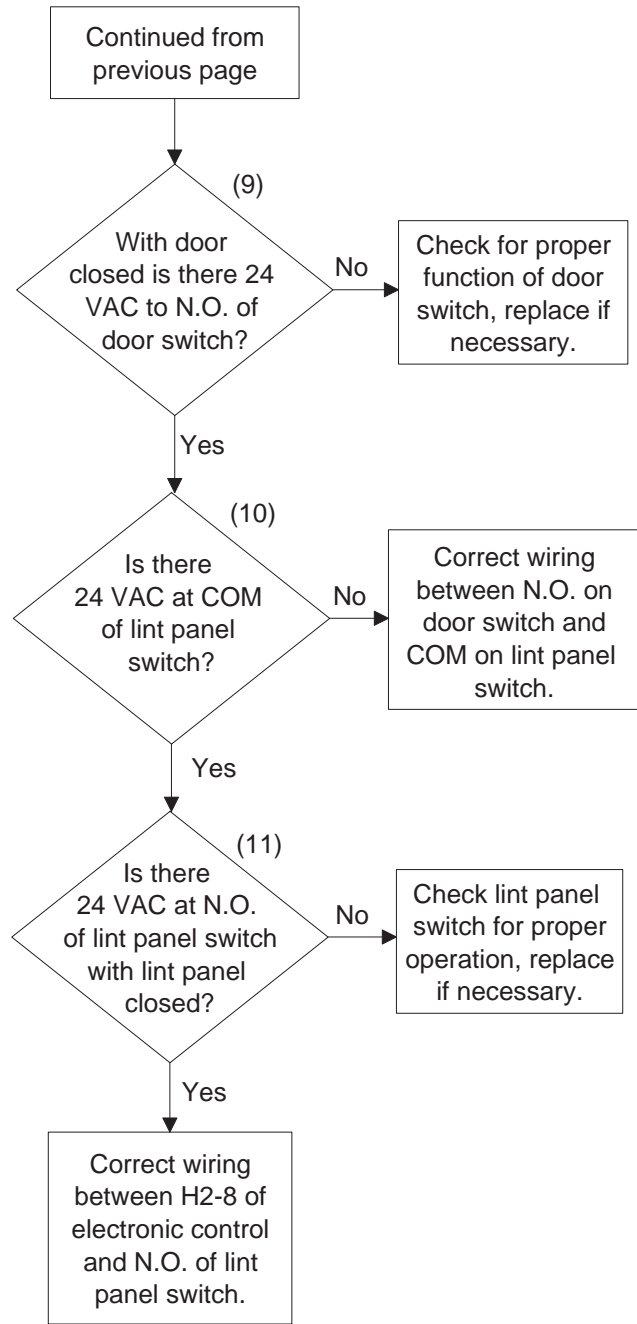
TMB2242S

62. Door Open Indicator



TMB2252S-a

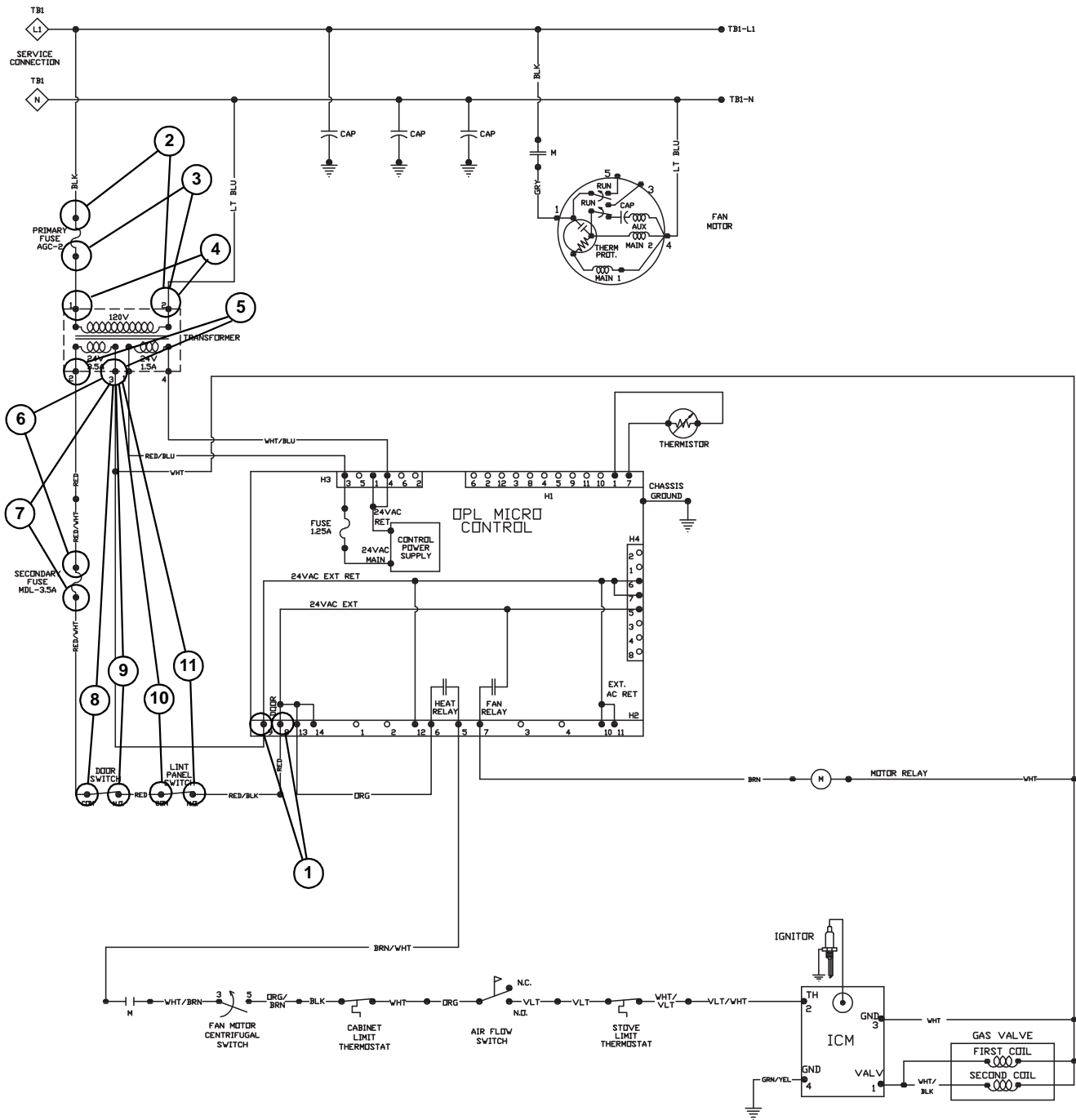
62. Door Open Indicator (continued)



TMB2252S-b

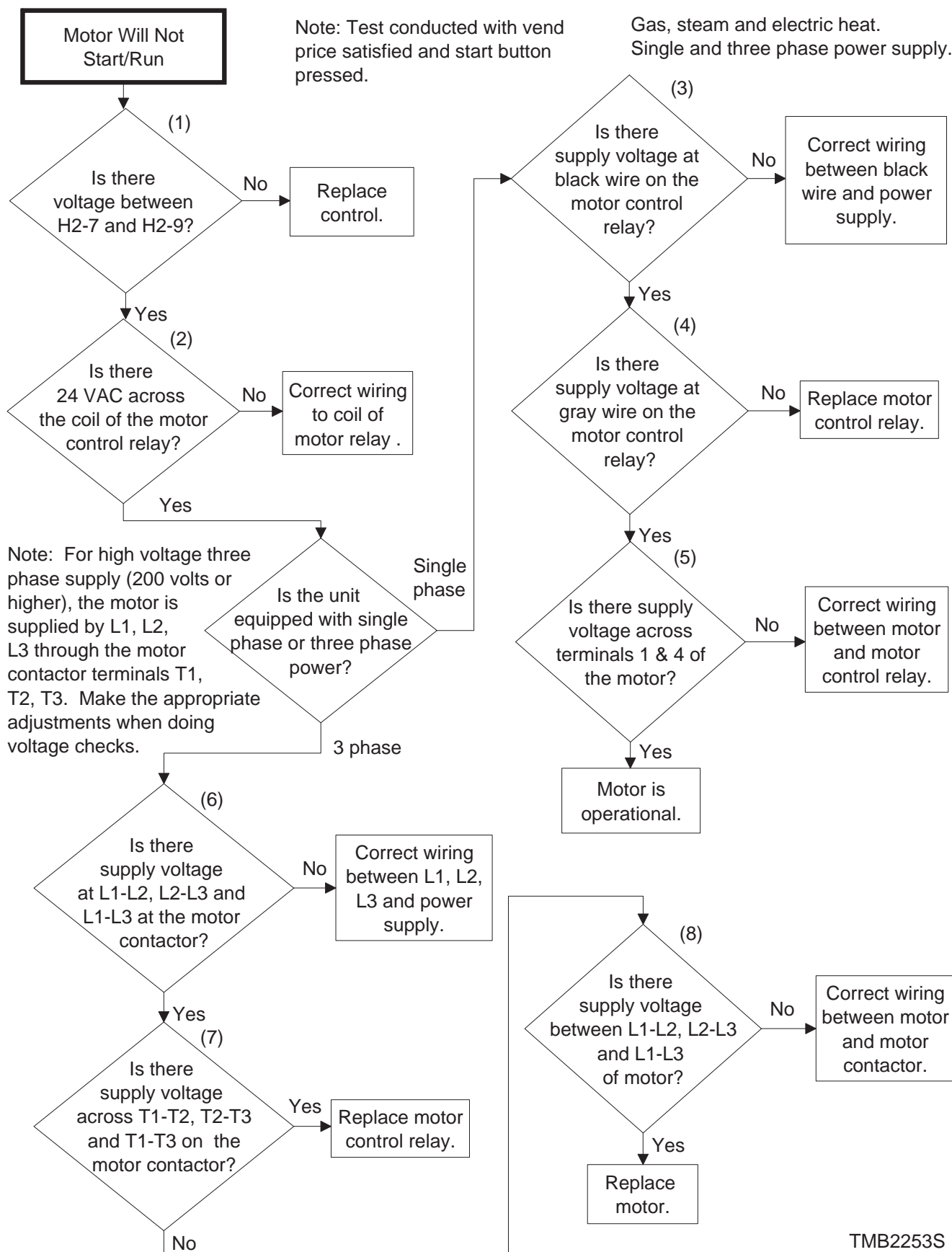
Please see following page for wiring diagram information.

Door Open Indicator



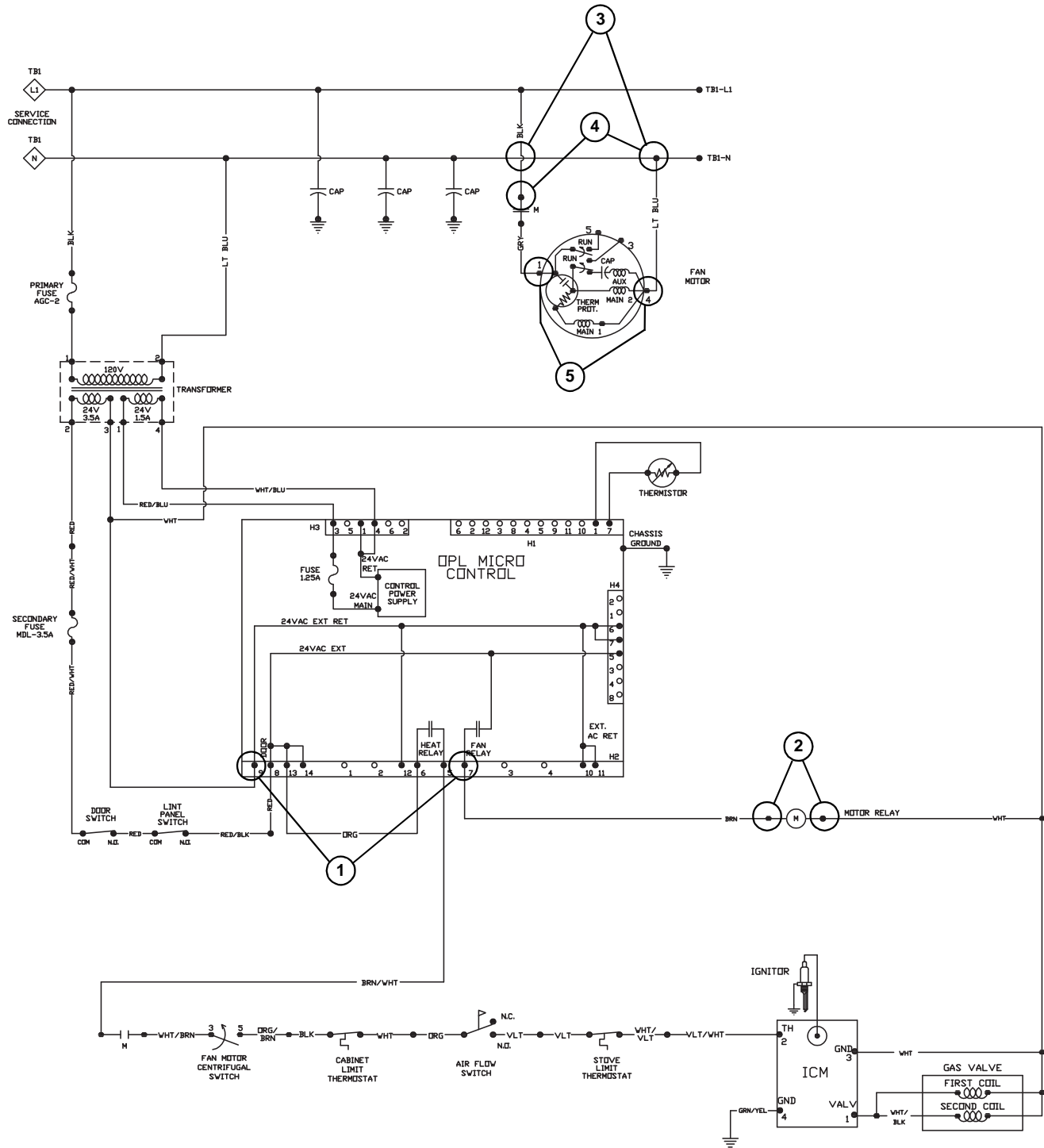
TMB2242S

63. Motor Will Not Start/Run



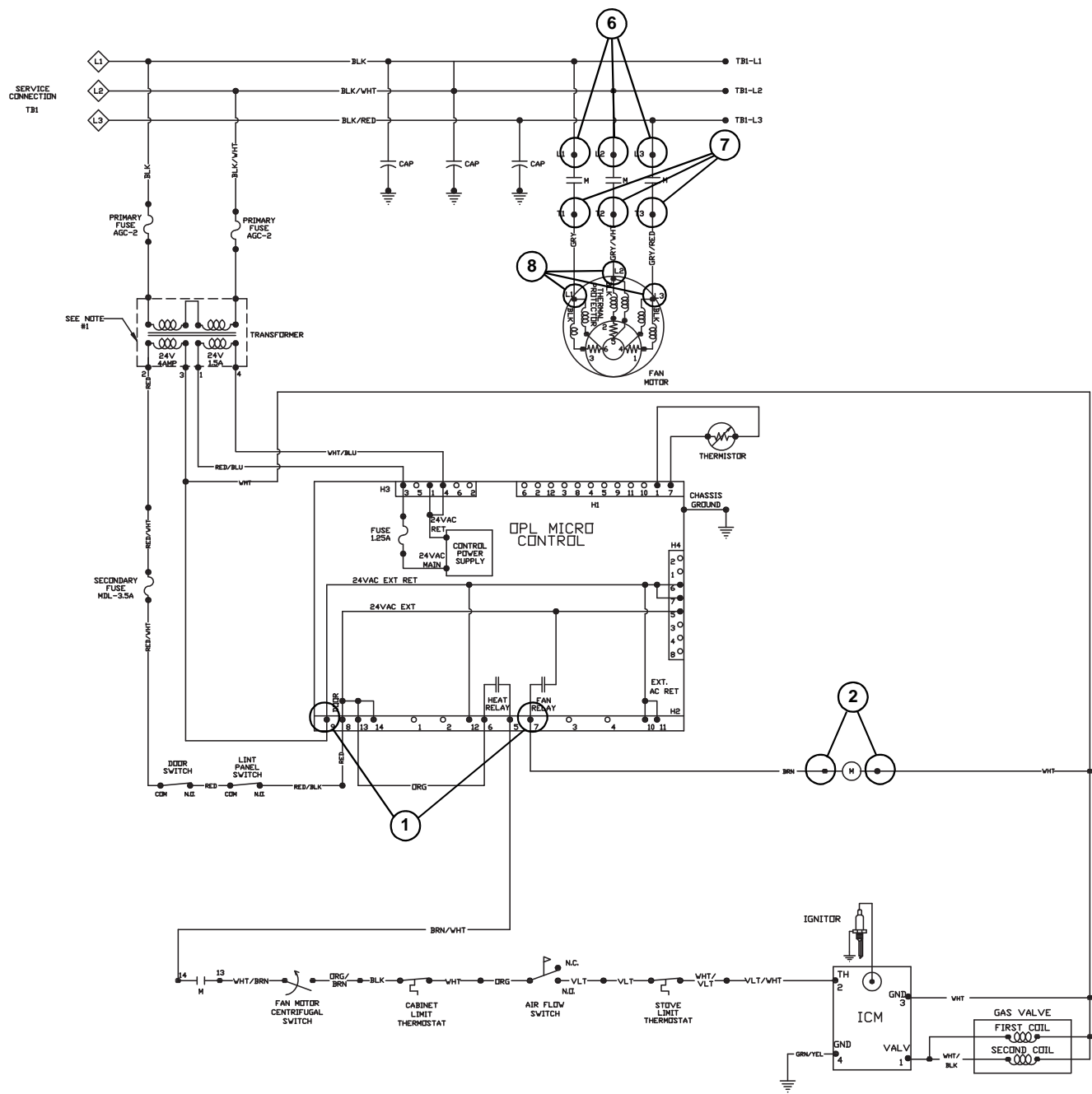
TMB2253S

Motor Will Not Start/Run – Single Phase



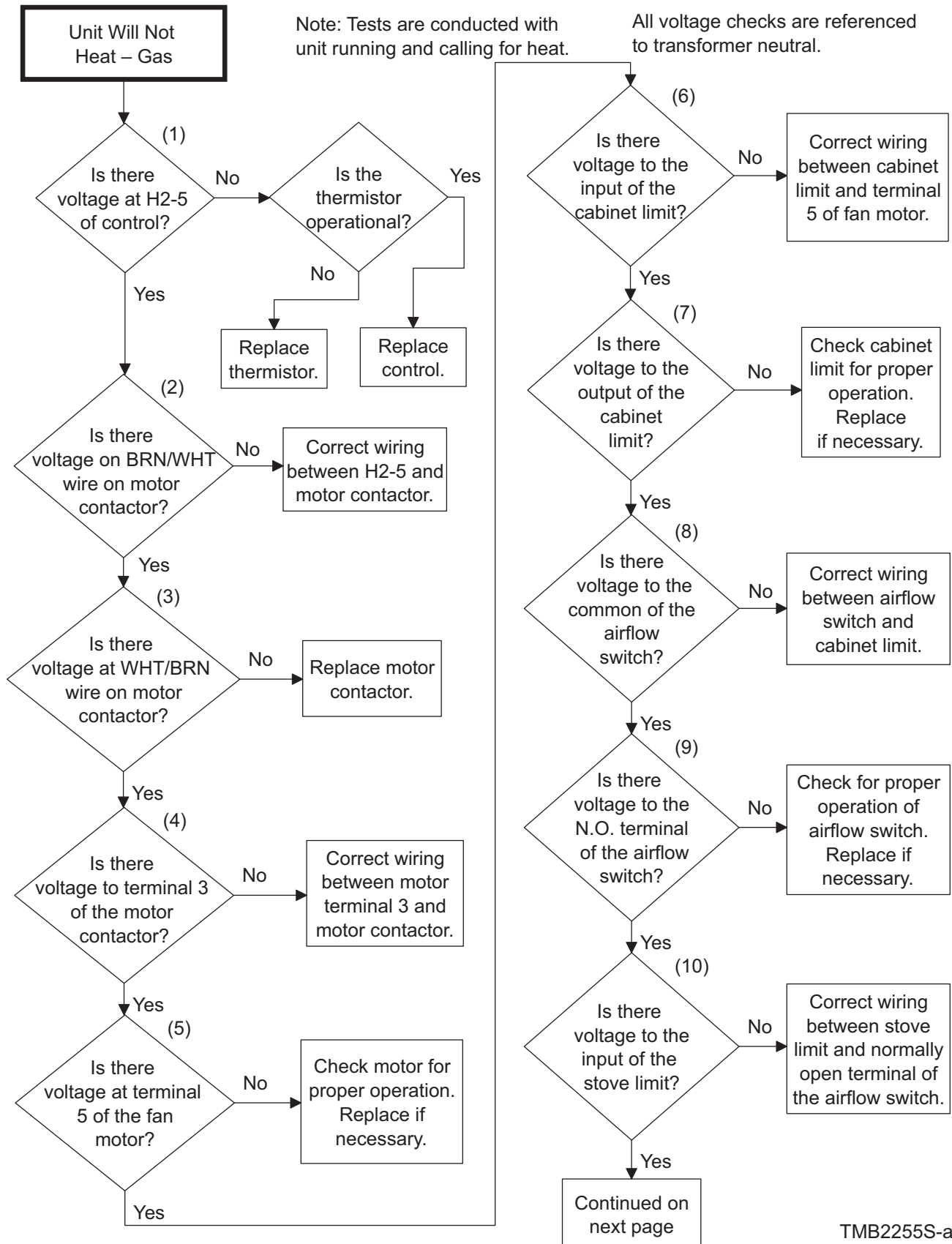
TMB2242S

Motor Will Not Start/Run – 3 Phase

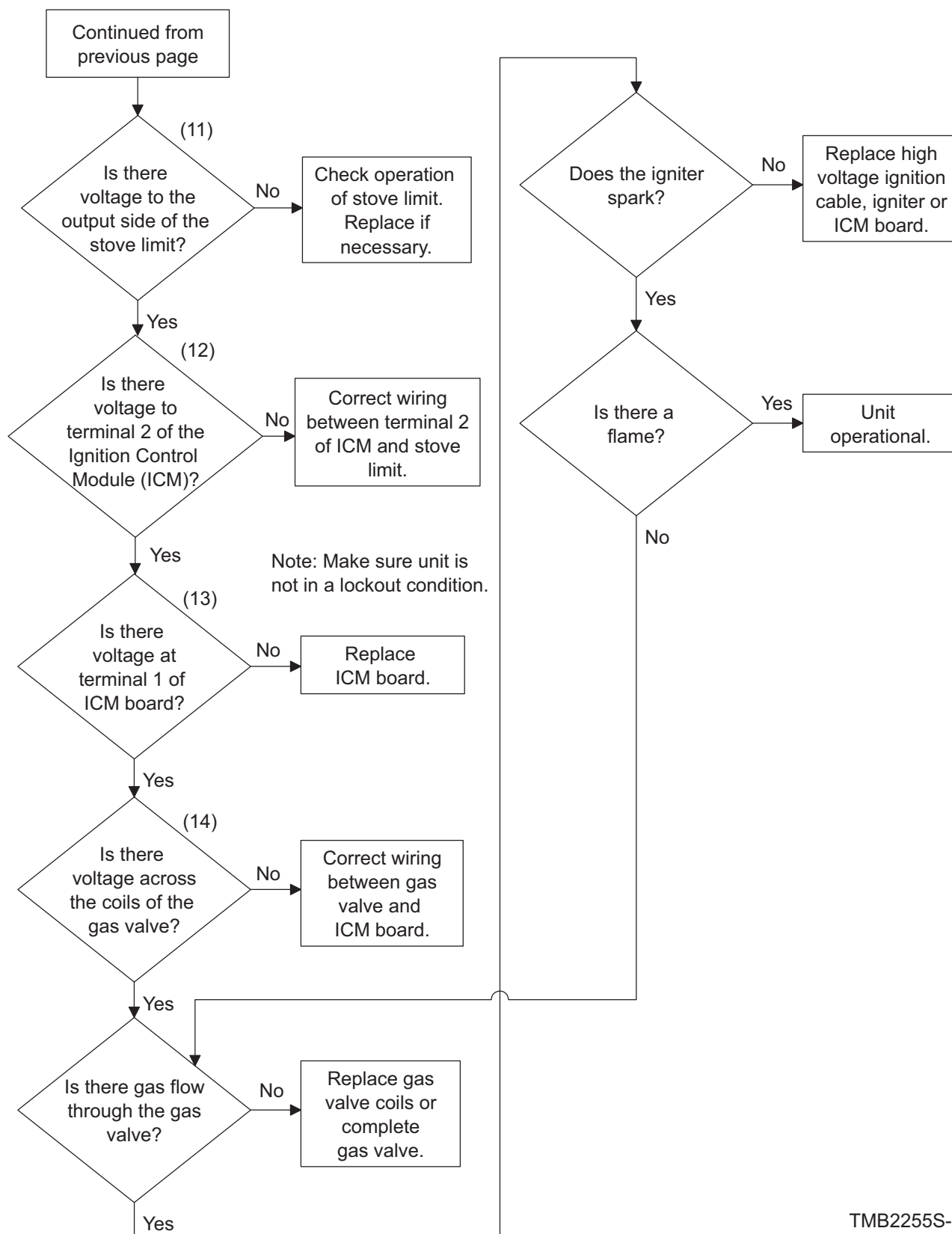


TMB2254S

64. Unit Will Not Heat – Gas



64. Unit Will Not Heat – Gas (continued)



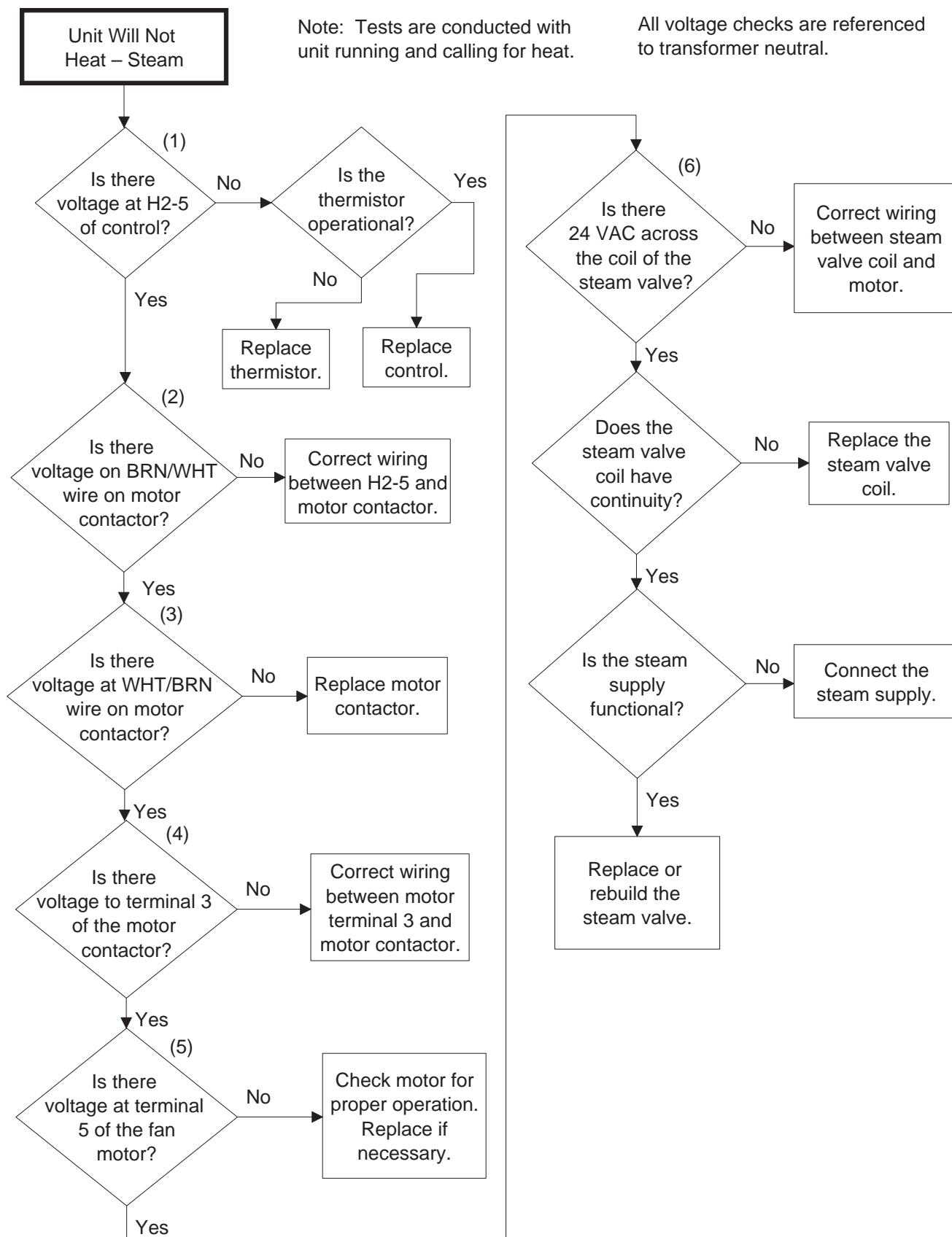
TMB2255S-b

Please see following page for wiring diagram information.

Unit Will Not Heat – Gas

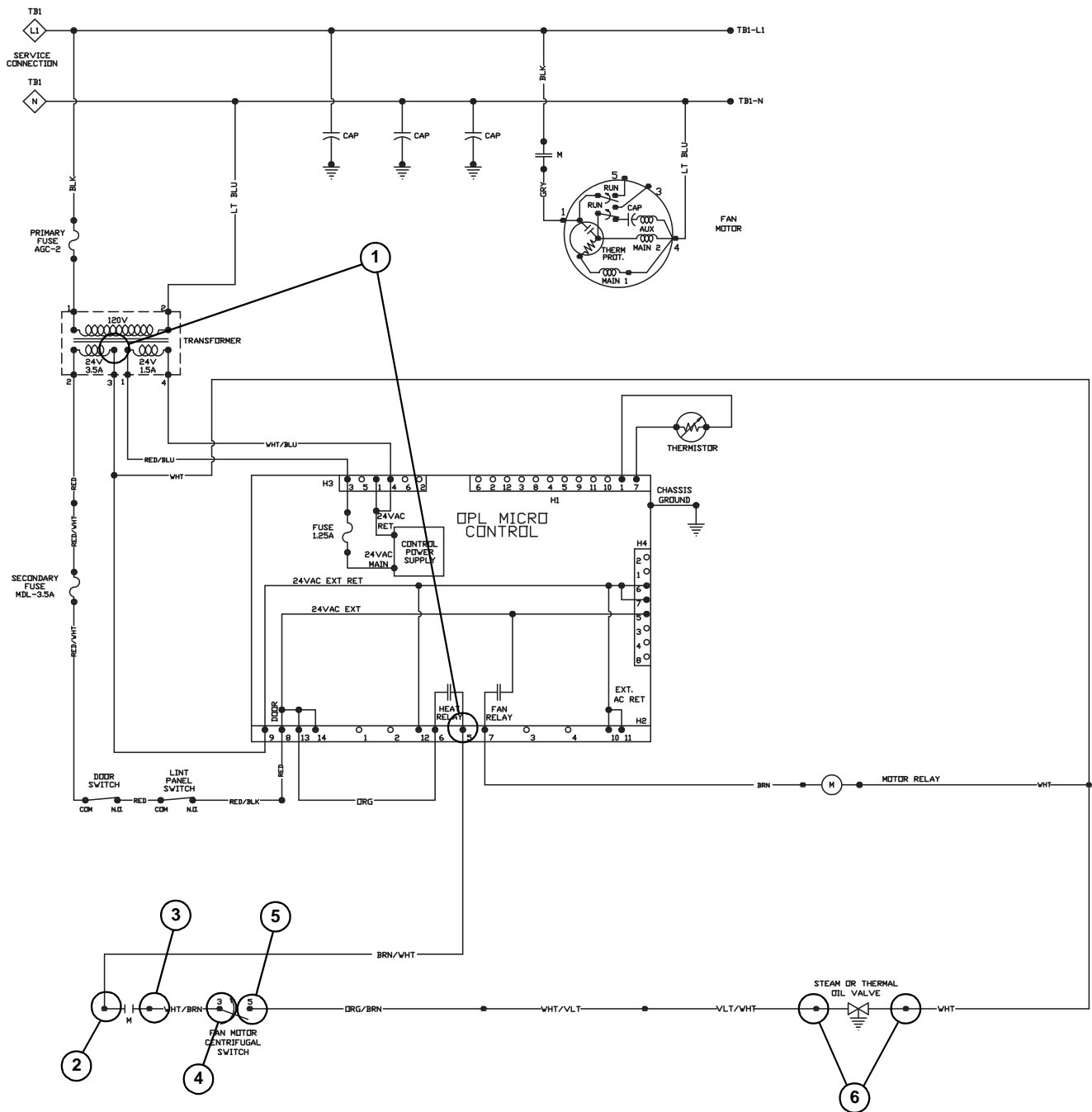


65. Unit Will Not Heat – Steam



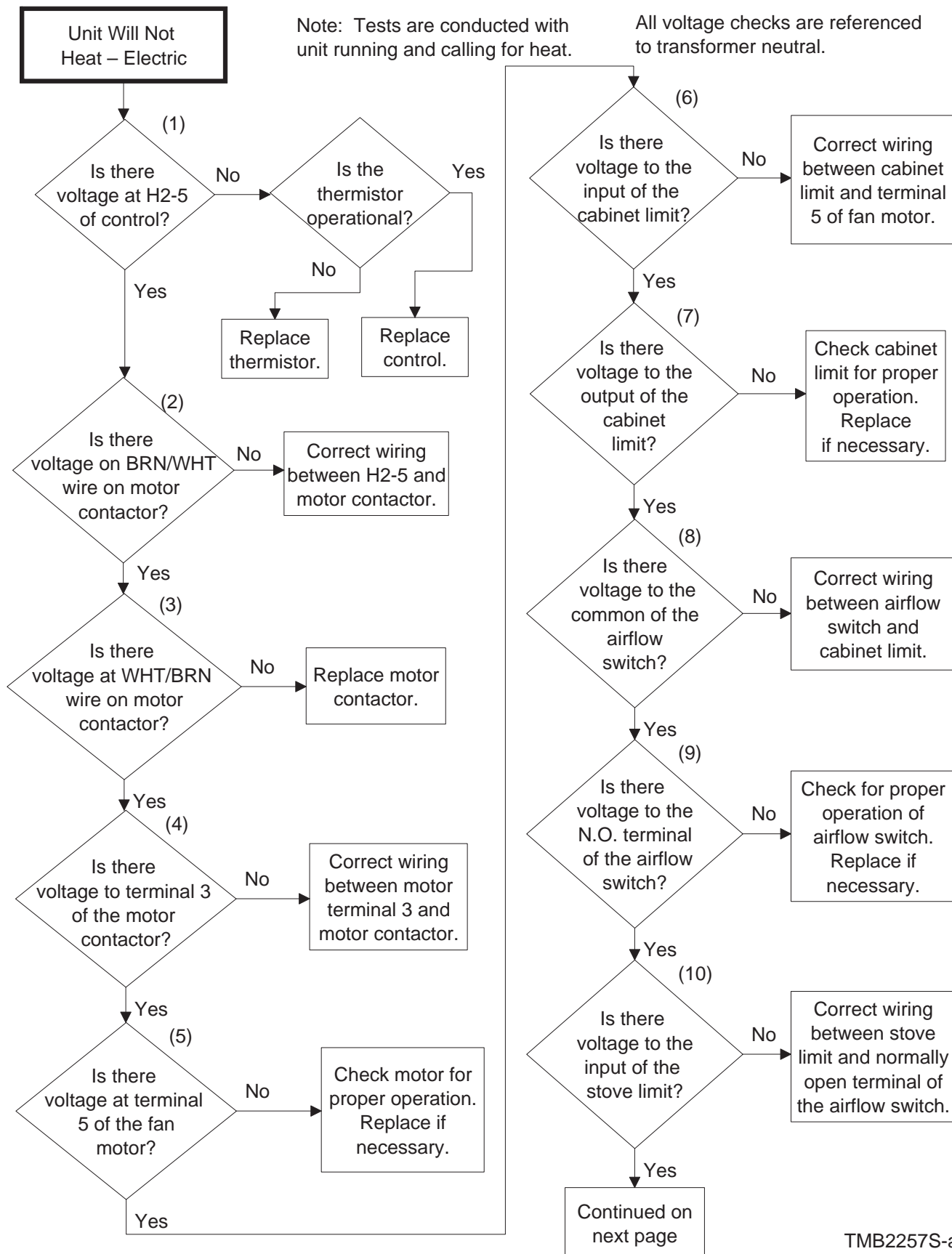
TMB2256S

Unit Will Not Heat – Steam



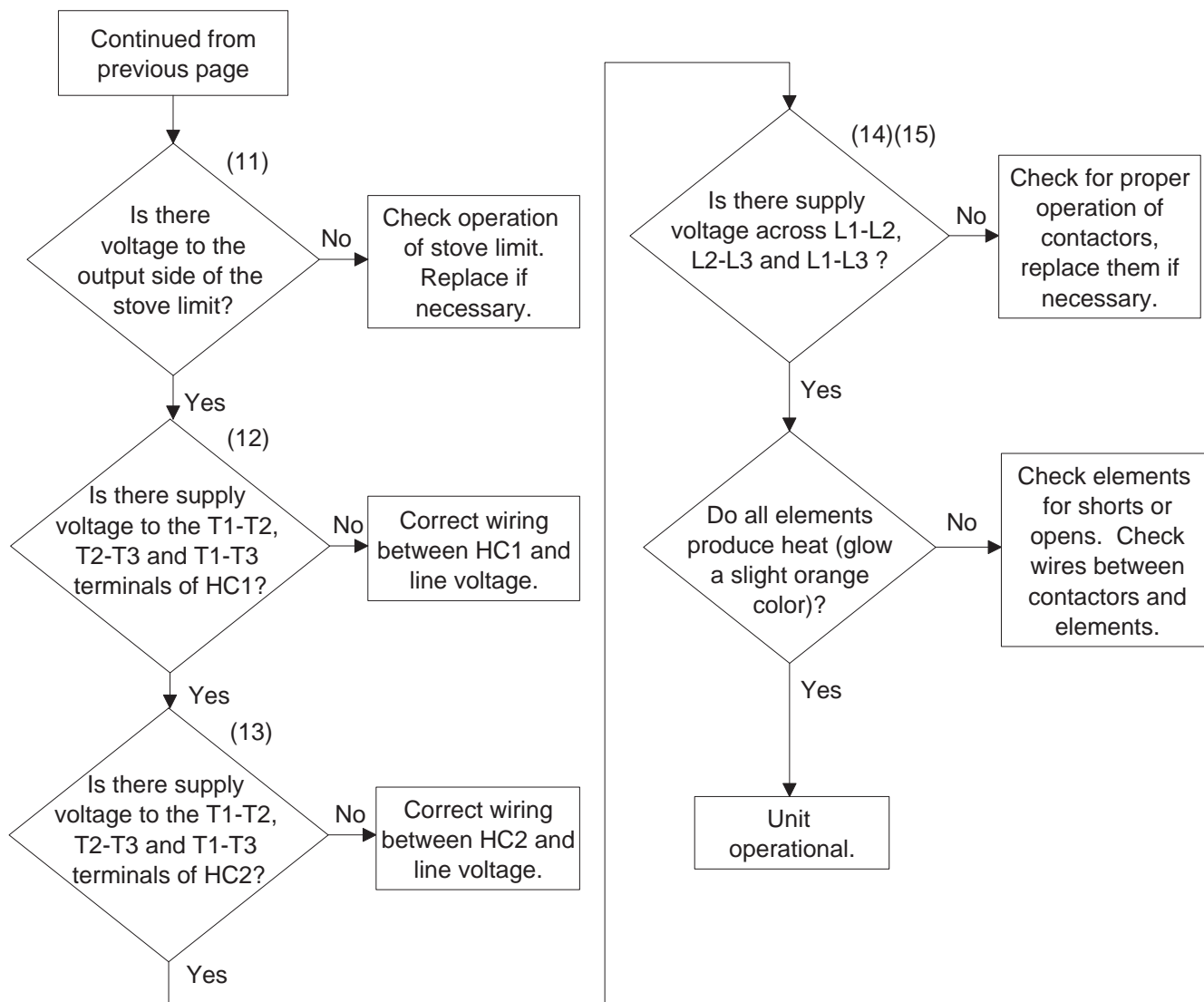
TMB2246S

66. Unit Will Not Heat – Electric



TMB2257S-a

66. Unit Will Not Heat – Electric (continued)



TMB2257S-b

Please see following page for wiring diagram information.

67. Error Codes

OP - Indicates physical “open” in the thermistor circuit. Possible causes are: 1) thermistor, 2) wiring between control and thermistor, 3) control.

SH - Indicates a “short” in the thermistor circuit. Possible causes are: 1) shorted thermistor, 2) a short in the wiring between control and thermistor, 3) control.

Display	Definition	Corrective Action
OP	Indicates an open circuit in the thermistor.	<ul style="list-style-type: none">• Check thermistor. Replace if inoperative.• Check wiring between control and thermistor. Refer to wiring diagram for proper wiring.• Check control. Replace if inoperative.
SH	Indicates a short circuit in the thermistor.	<ul style="list-style-type: none">• Check thermistor. Replace if inoperative.• Check wiring between control and thermistor. Refer to wiring diagram for proper wiring.• Check control. Replace if inoperative.

Section 8

Hybrid Timer Control Troubleshooting



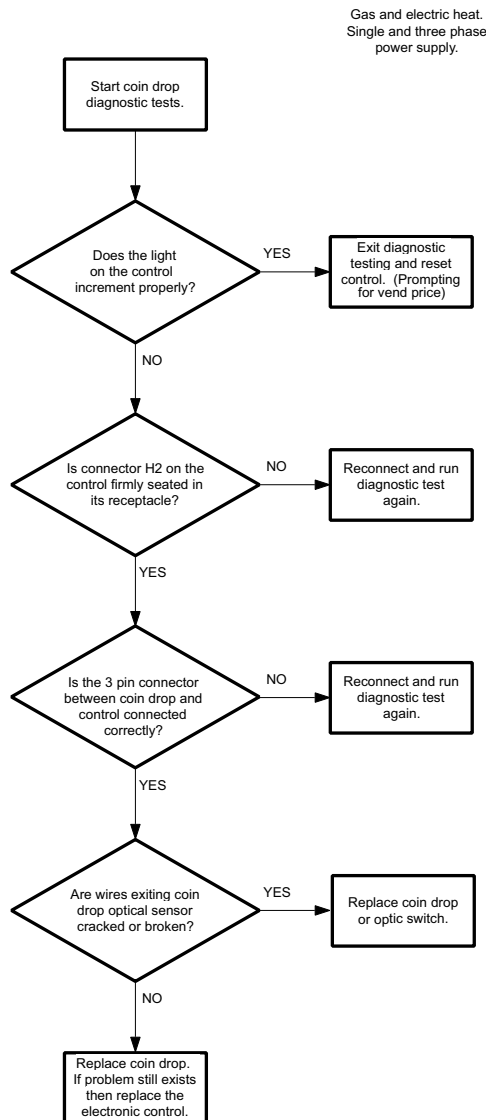
WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

68. Coins Ignored When Entered



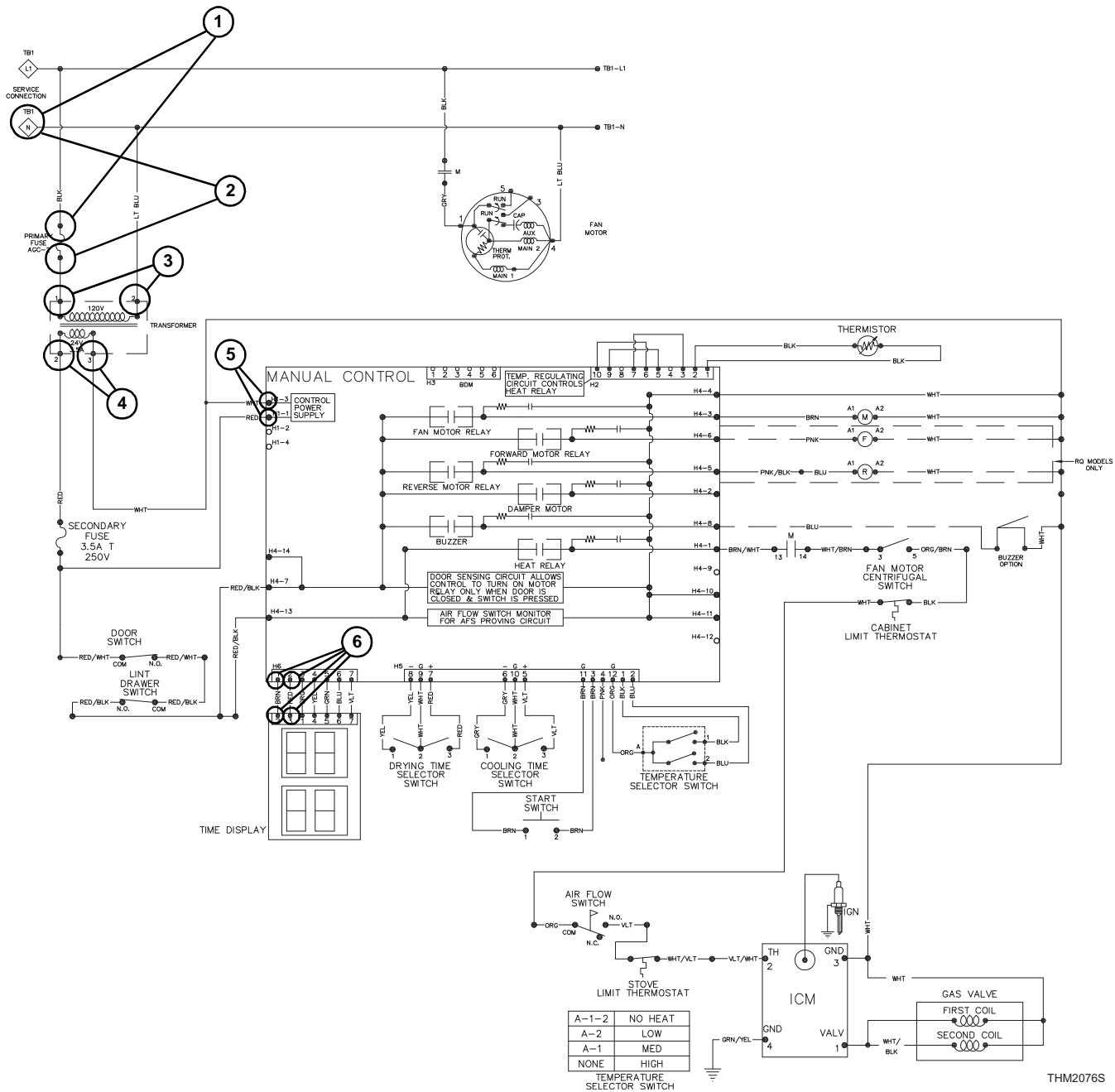
TMB2051S

69. Control Has No Display – QT and RQ Control Suffixes

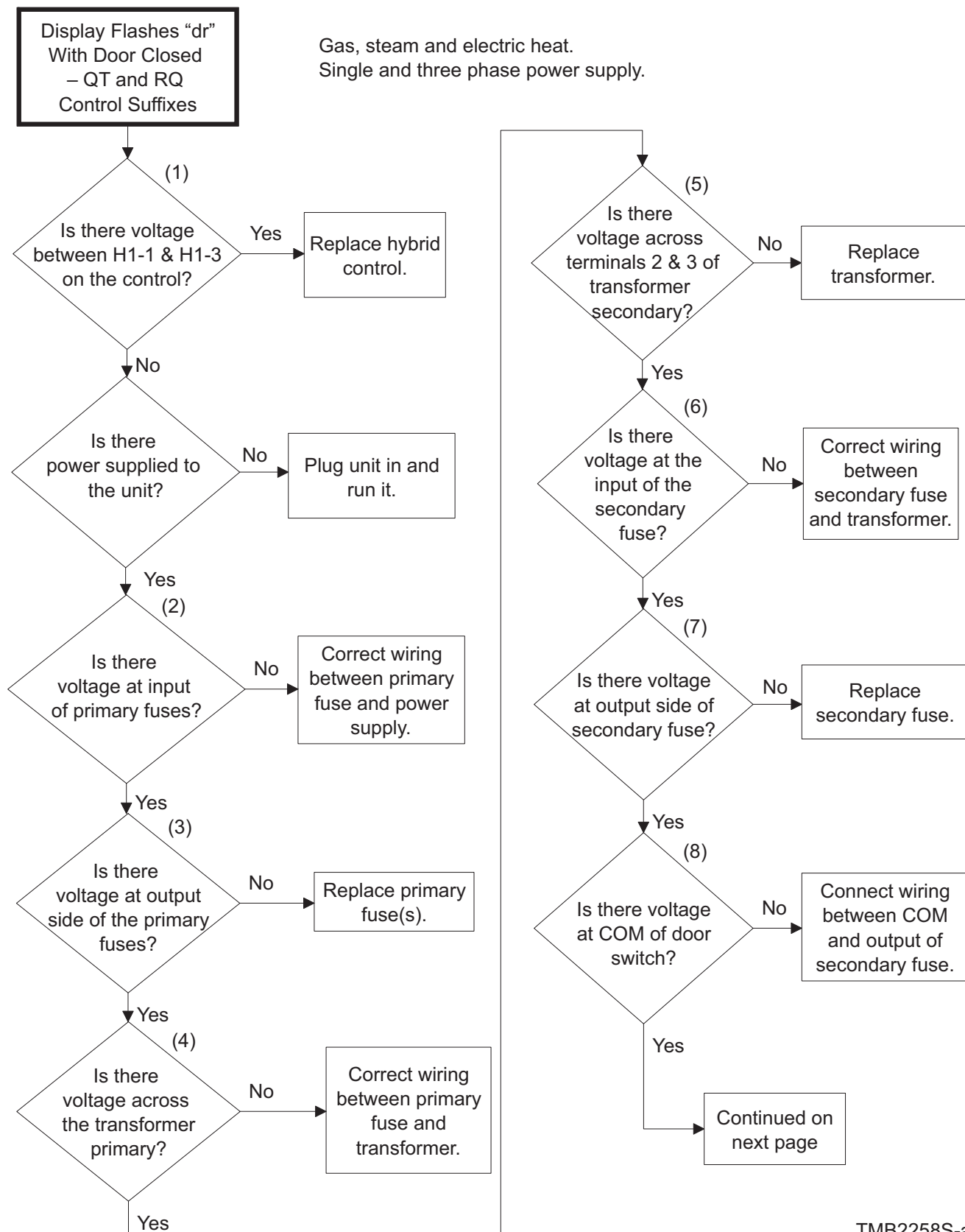


TMB2000S

Control Has No Display – QT and RQ Control Suffixes

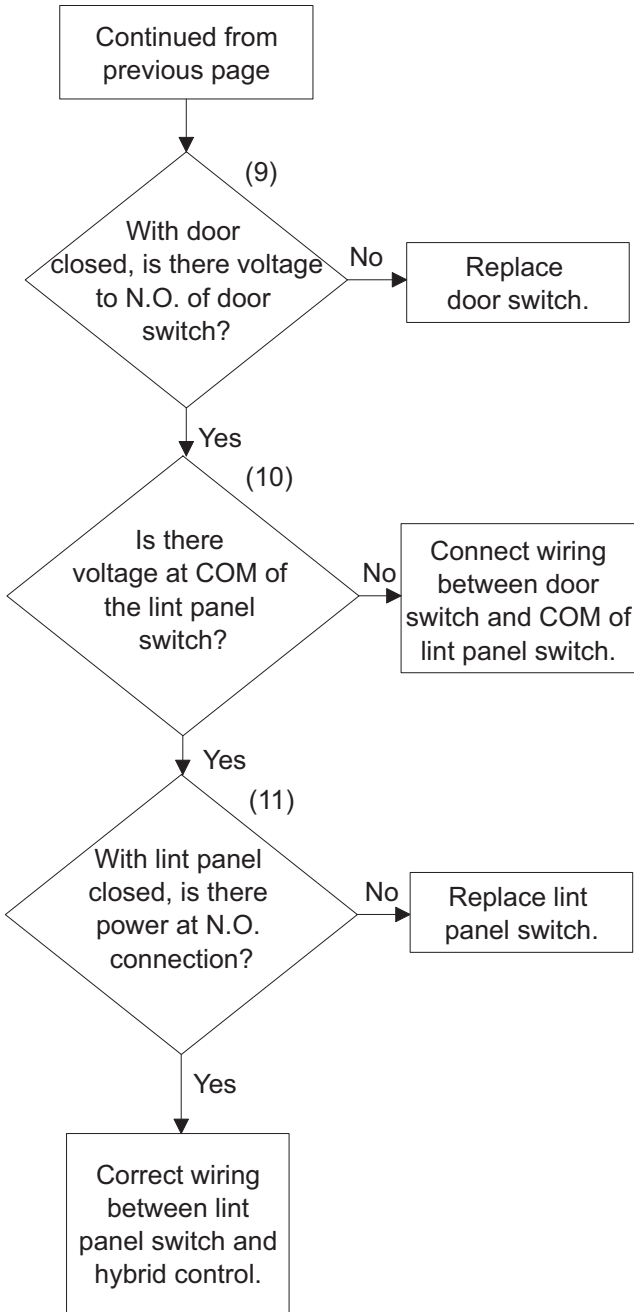


70. Display Flashes “dr” With Door Closed – QT and RQ Control Suffixes



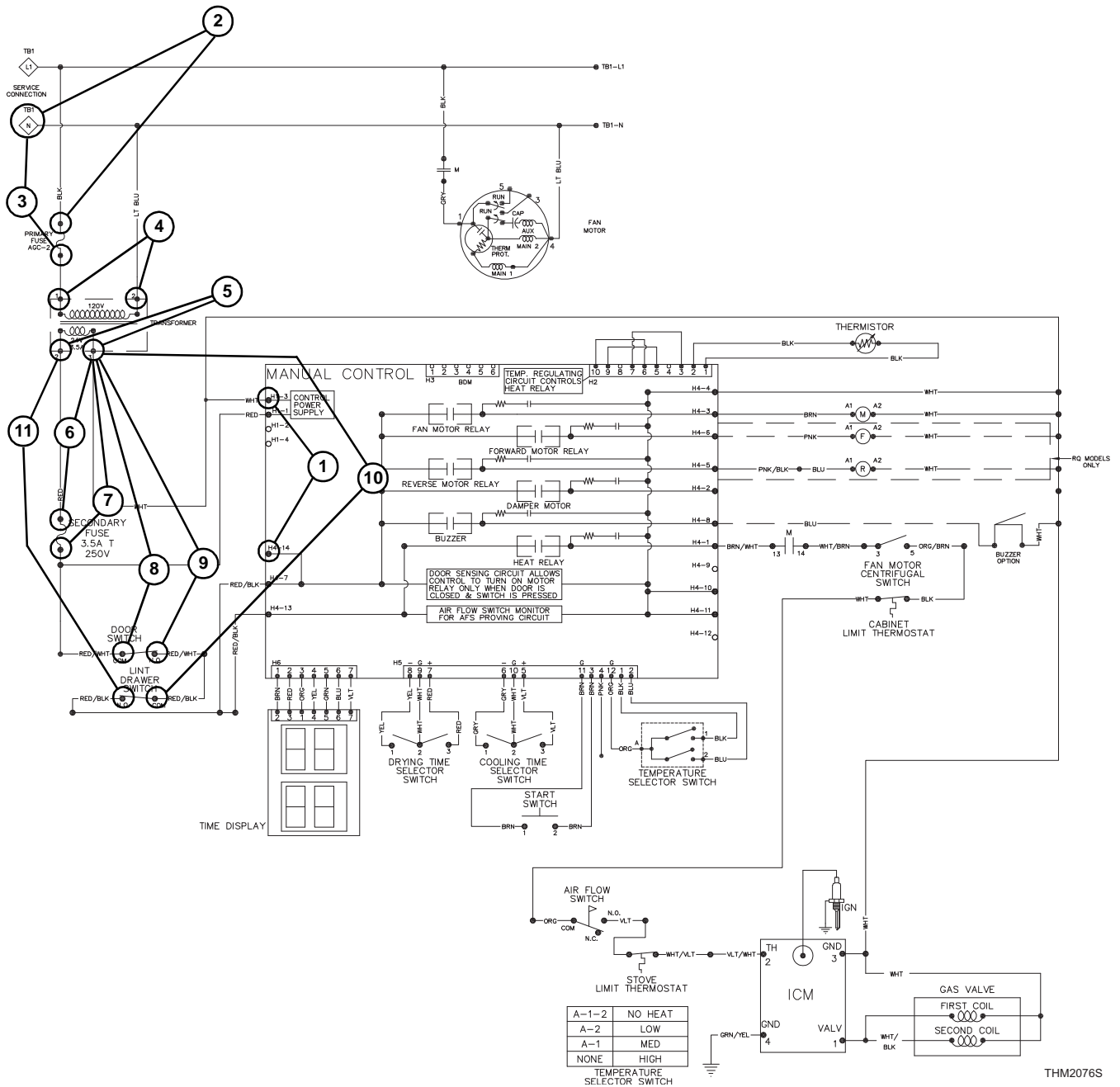
TMB2258S-a

70. Display Flashes “dr” With Door Closed – QT and RQ Control Suffixes (continued)

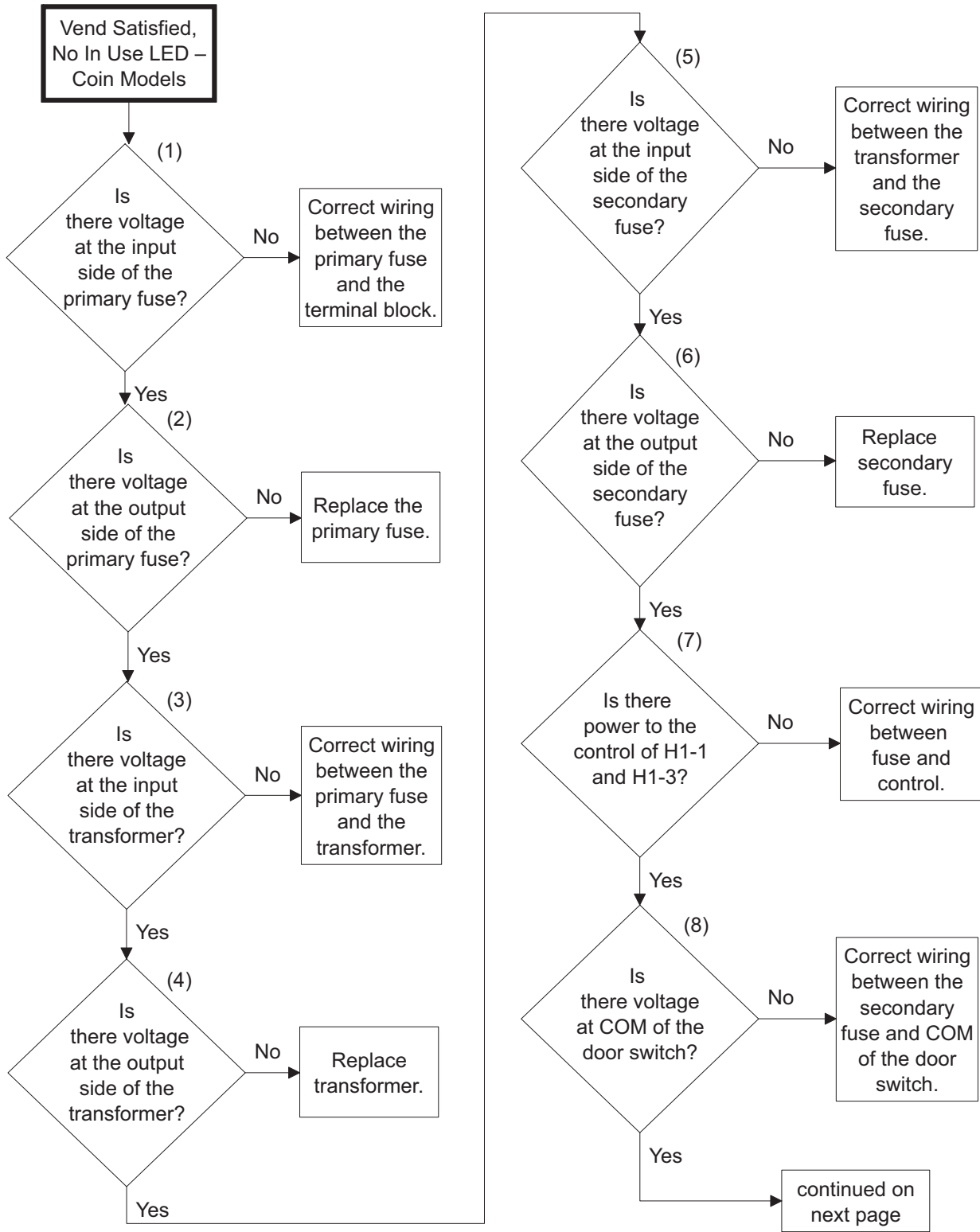


TMB2258S-b

Display Flashes “dr” With Door Closed – QT and RQ Control Suffixes

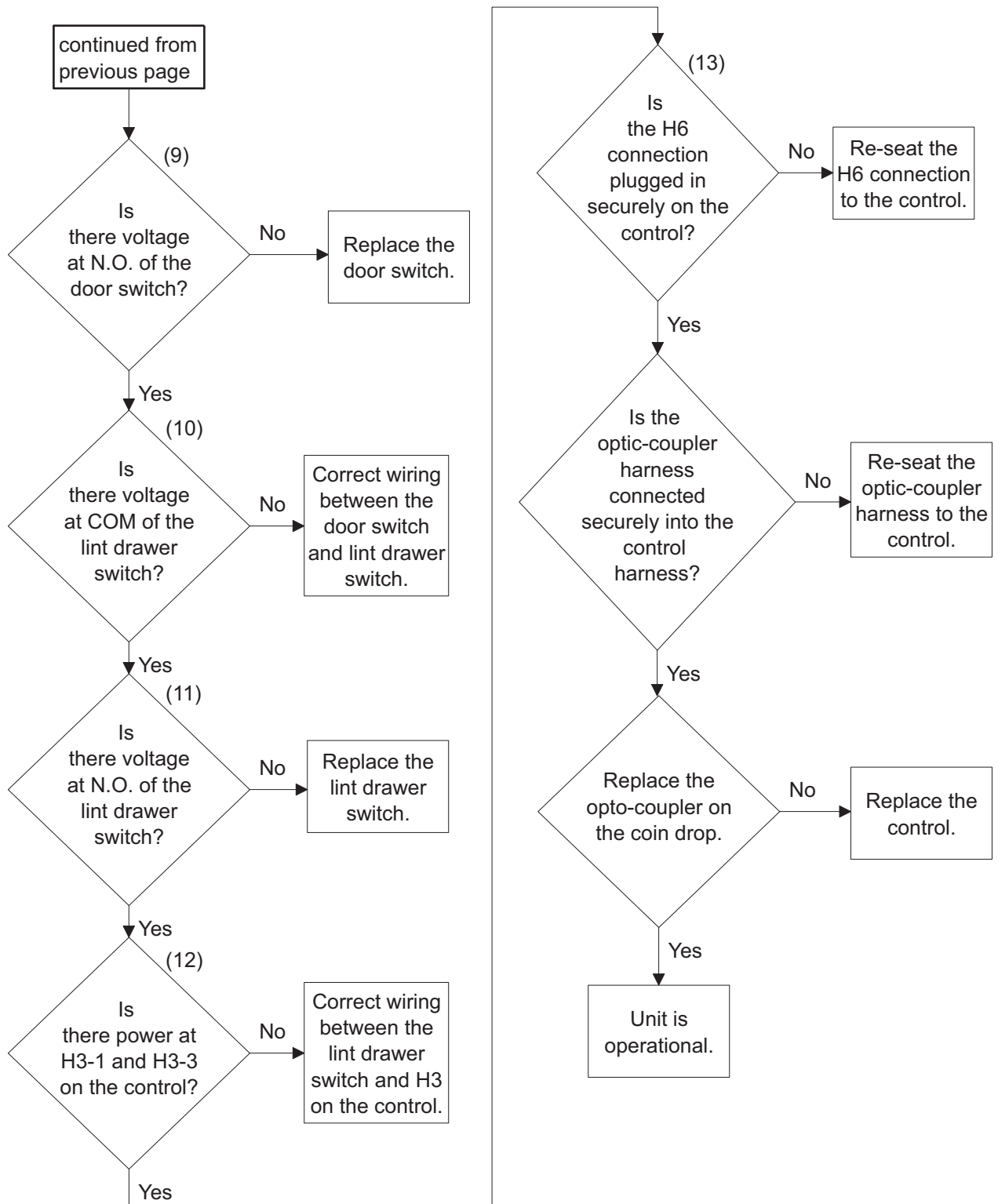


71. Vend Satisfied, No In Use LED – SD and SX Control Suffixes



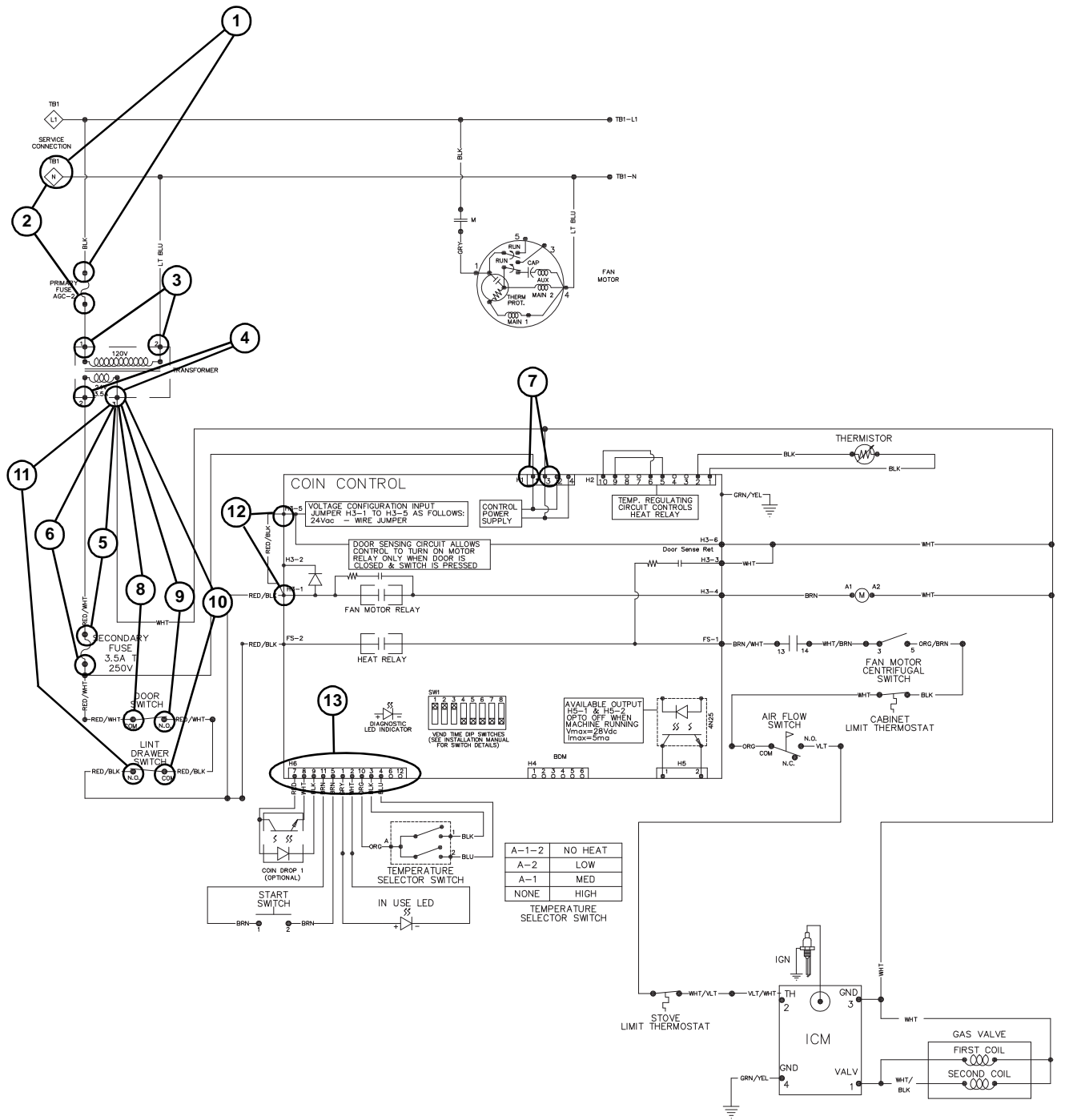
TMB2259S-a

71. Vend Satisfied, No In Use LED – SD and SX Control Suffixes (continued)



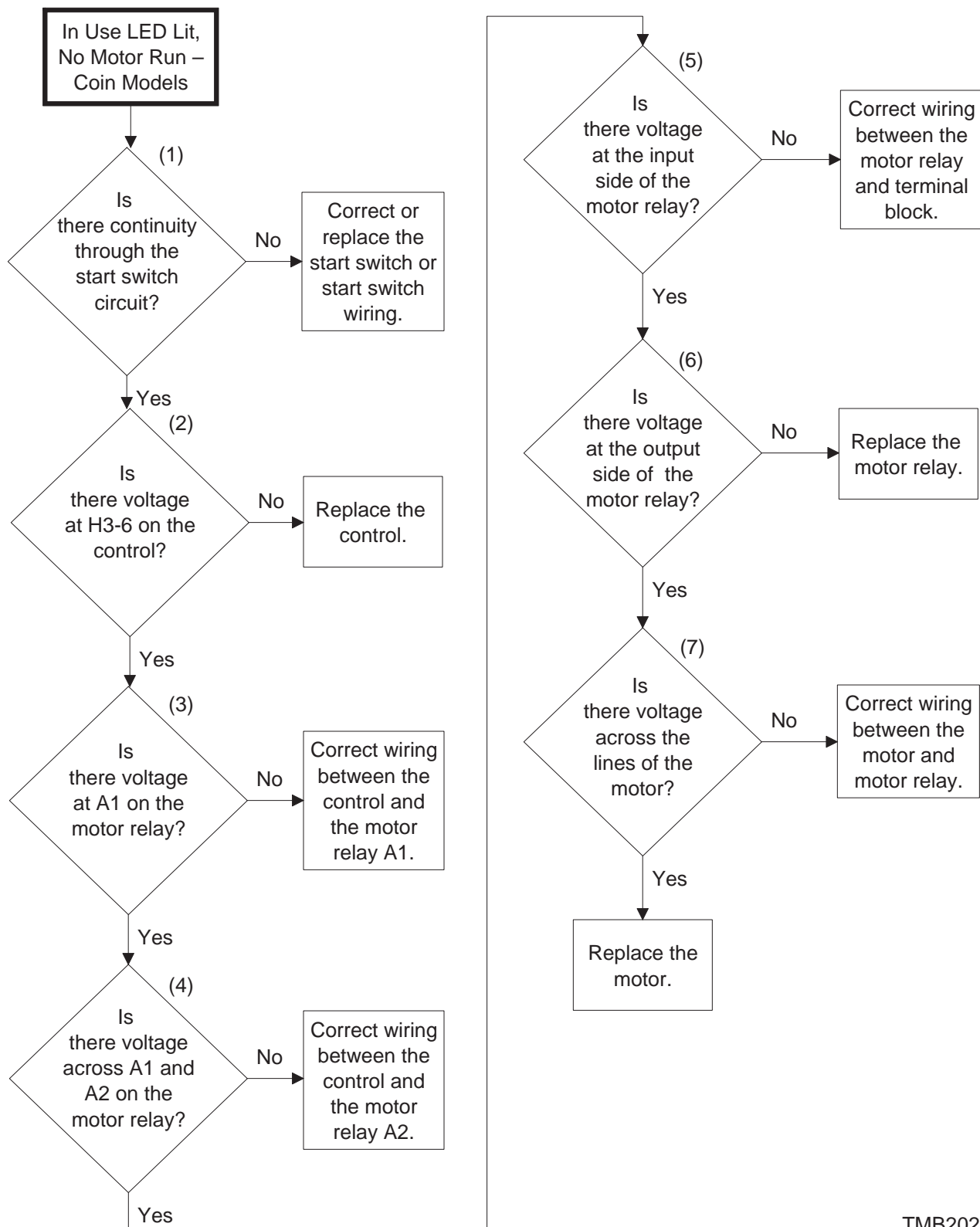
TMB2259S-b

Vend Satisfied, No In Use LED – SD and SX Control Suffixes



THM2075S

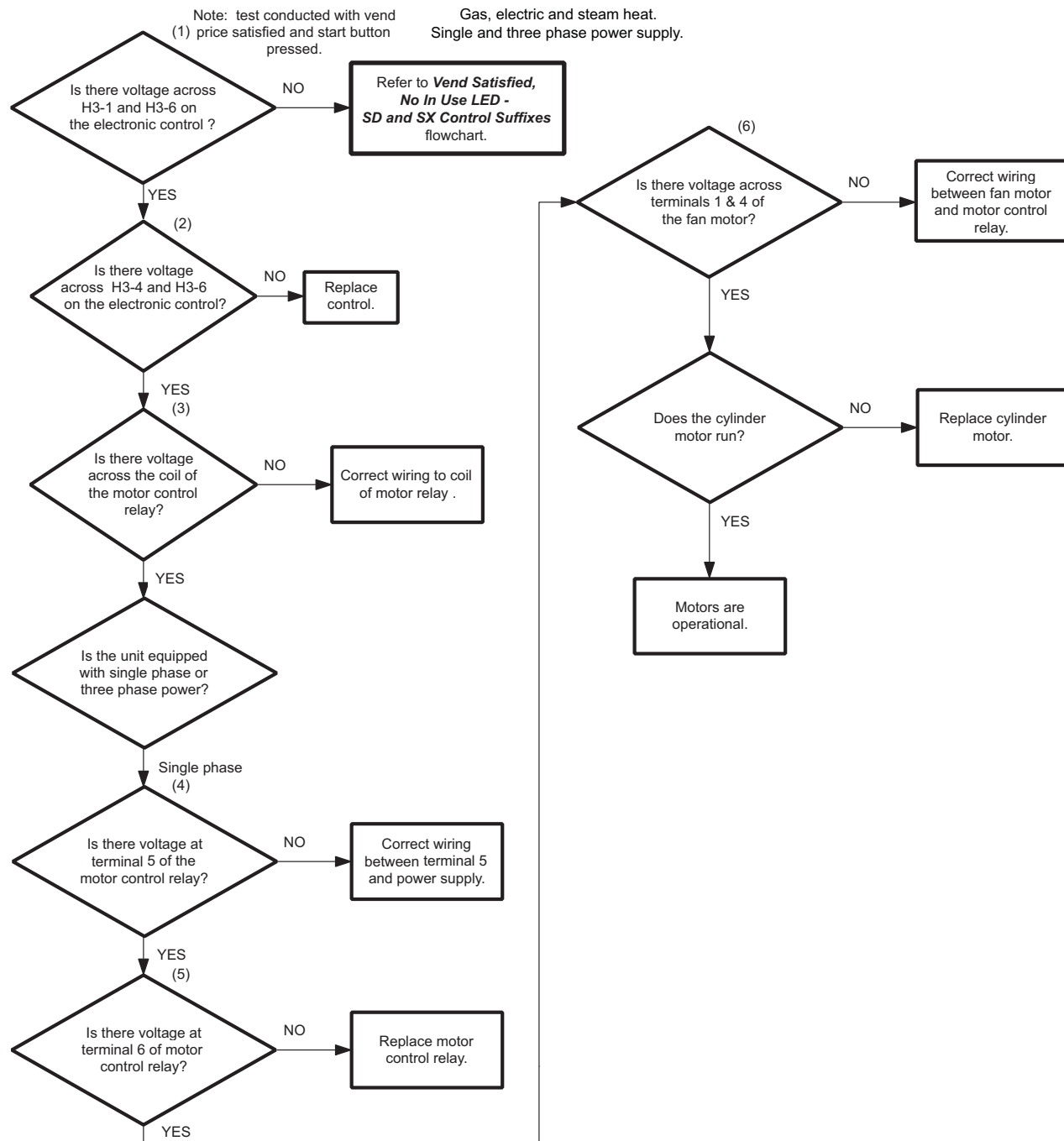
72. In Use LED Lit, No Motor Run – SD and SX Control Suffixes



TMB2023S



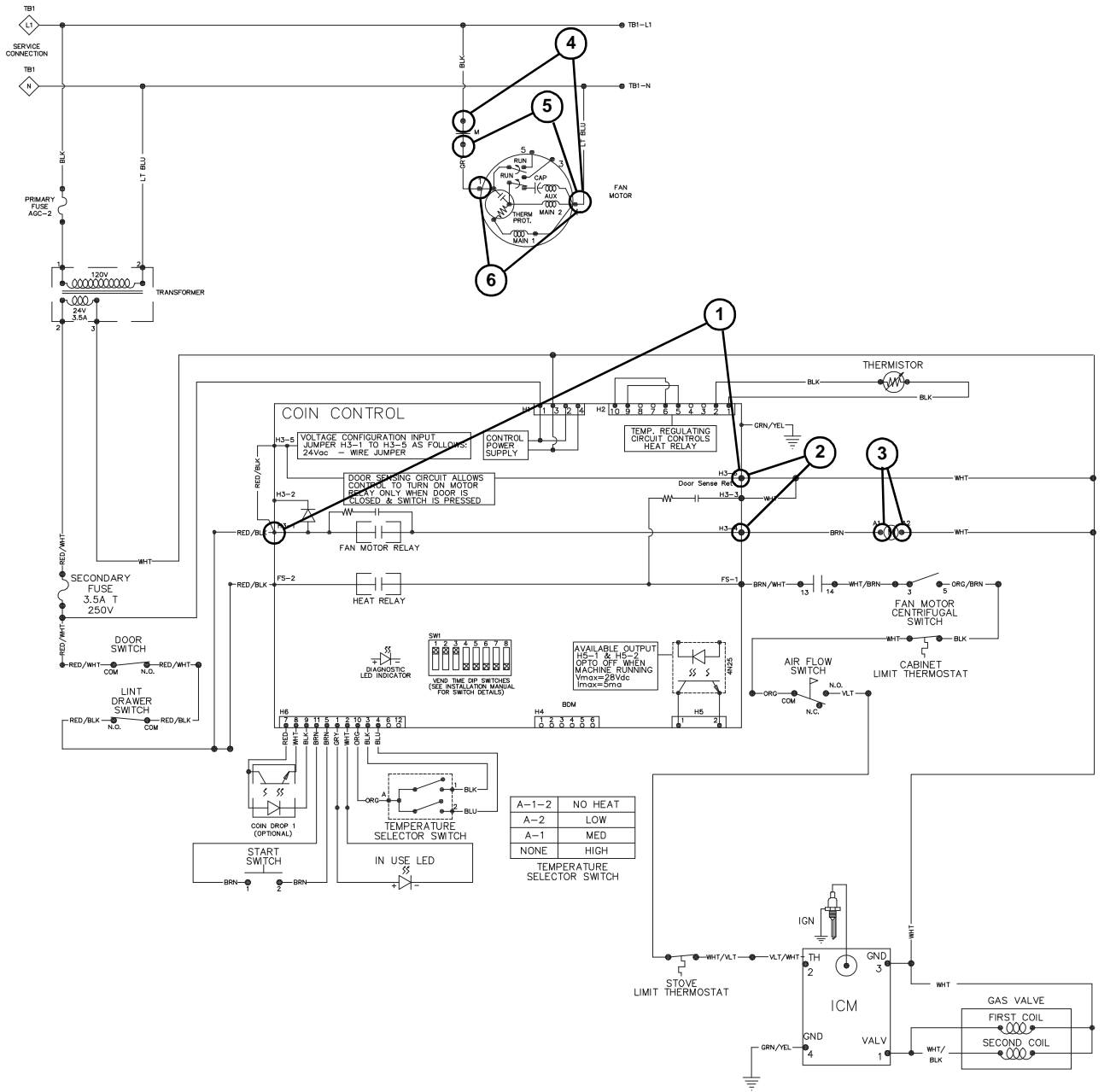
73. Motor Will Not Start/Run – SD and SX Control Suffixes



TMB2077S

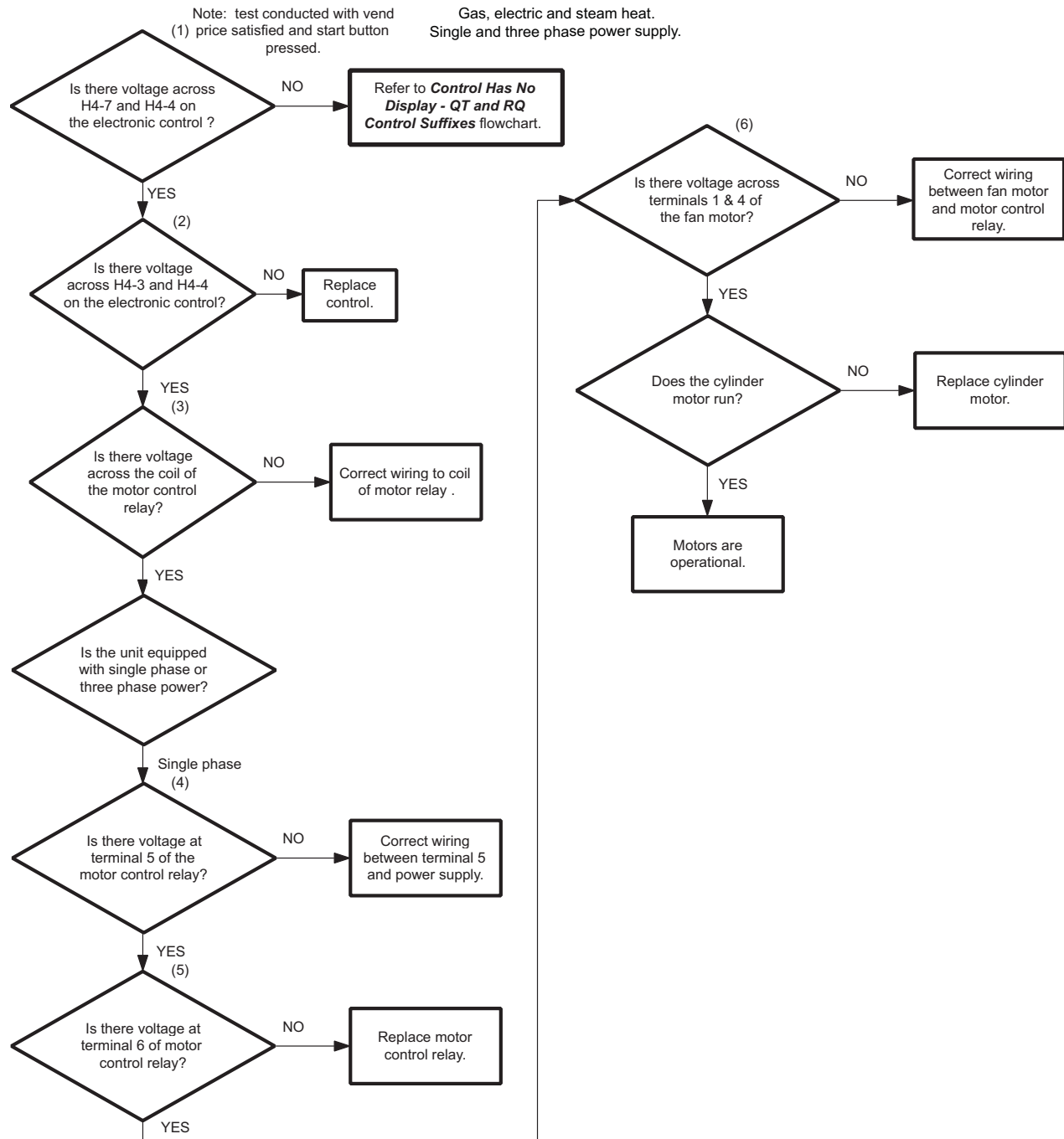
Please see following page for wiring diagram information.

Motor Will Not Start/Run – SD and SX Control Suffixes



THM2075S

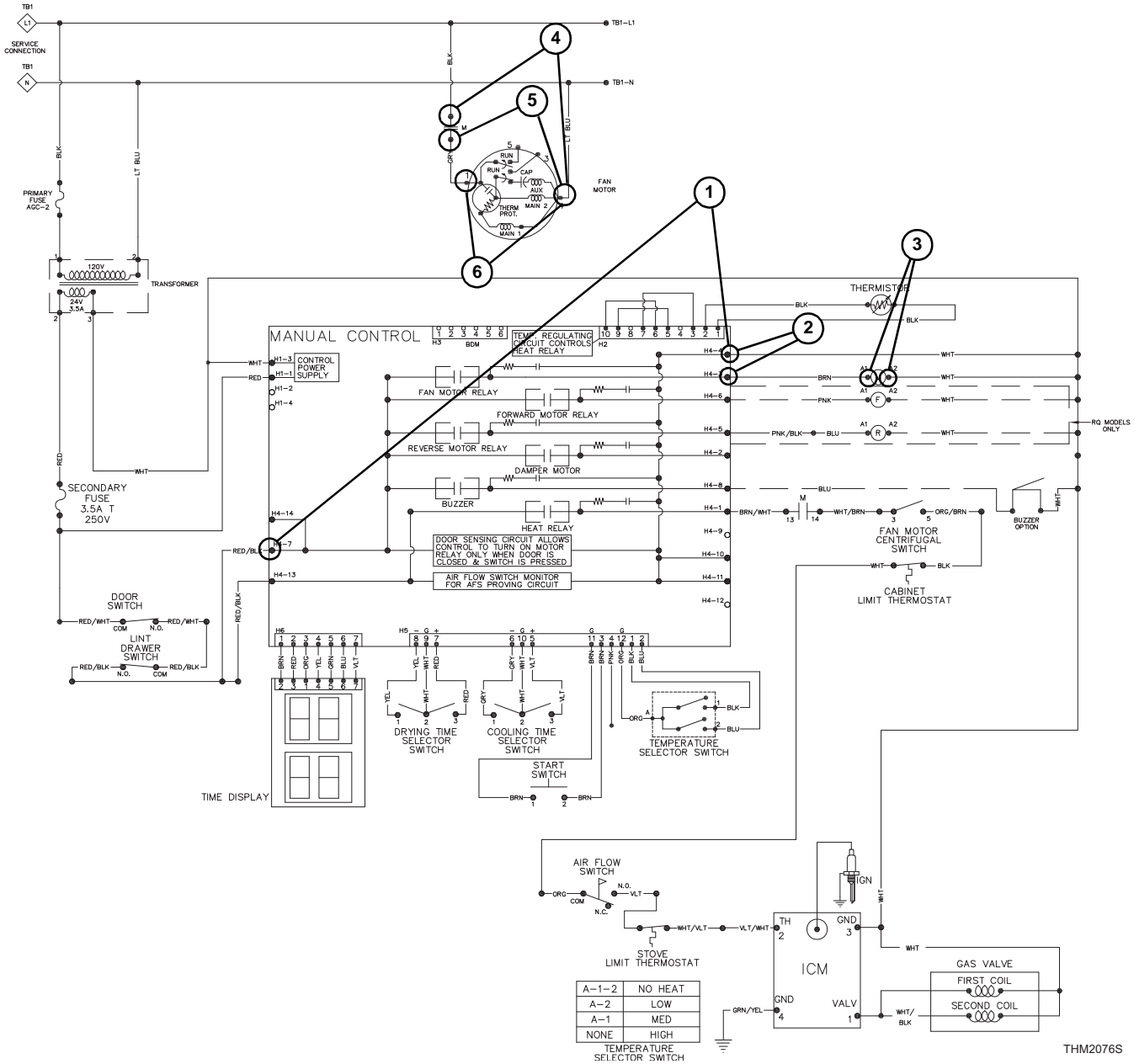
74. Motor Will Not Start/Run – QT and RQ Control Suffixes



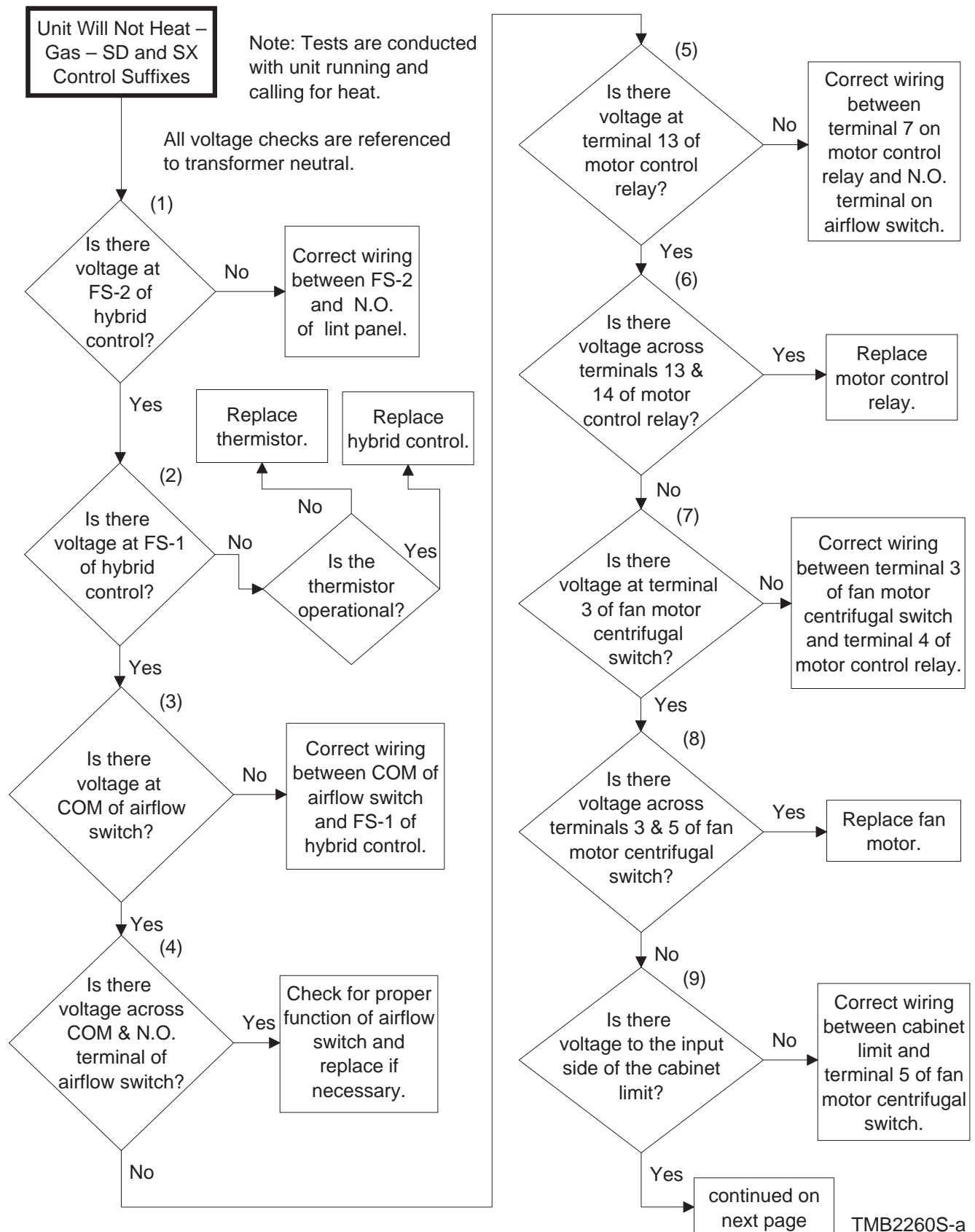
TMB2078S

Please see following page for wiring diagram information.

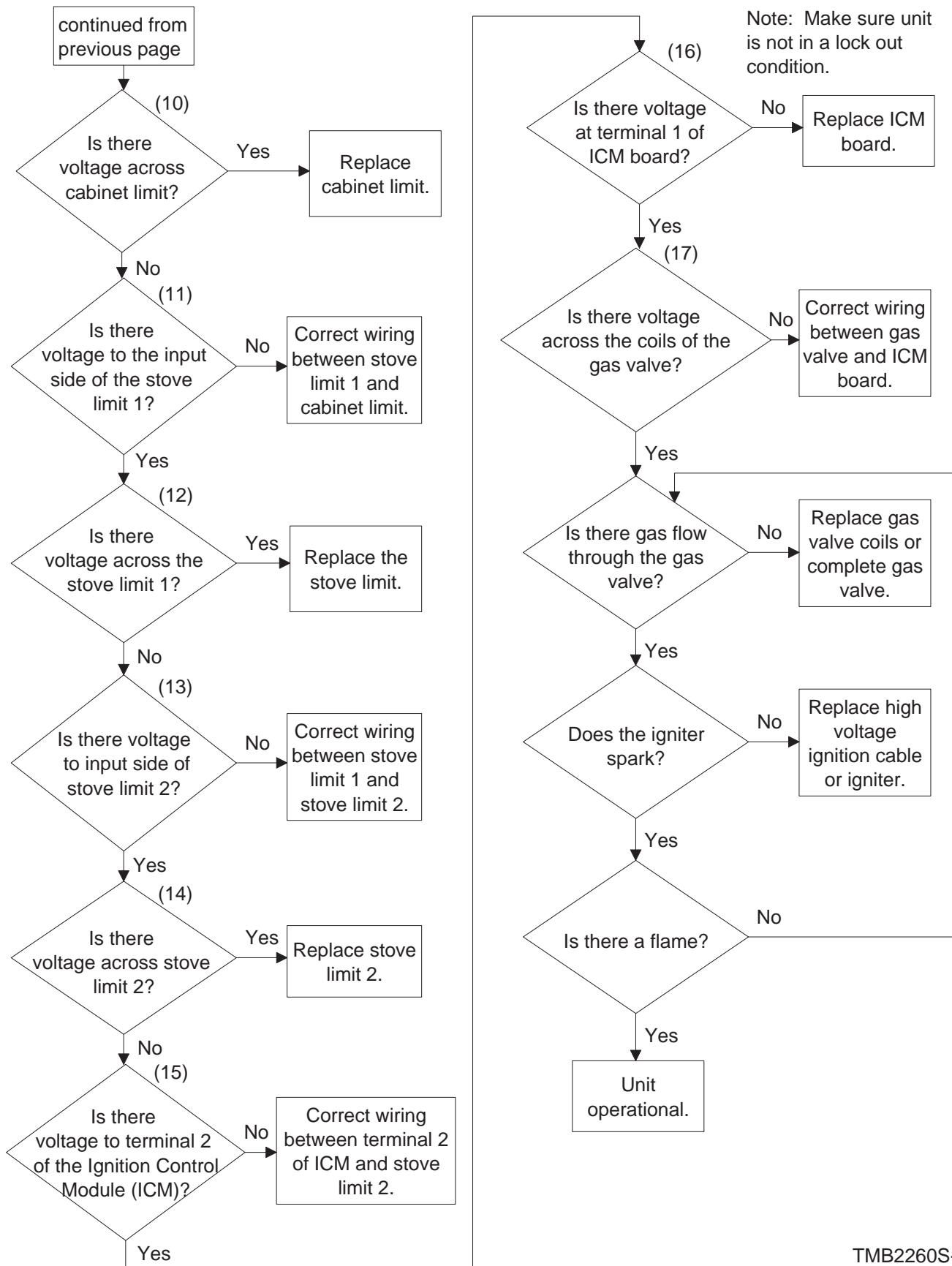
Motor Will Not Start/Run – QT and RQ Control Suffixes



75. Unit Will Not Heat – Gas – SD and SX Control Suffixes



75. Unit Will Not Heat – Gas – SD and SX Control Suffixes (continued)



TMB2260S-b

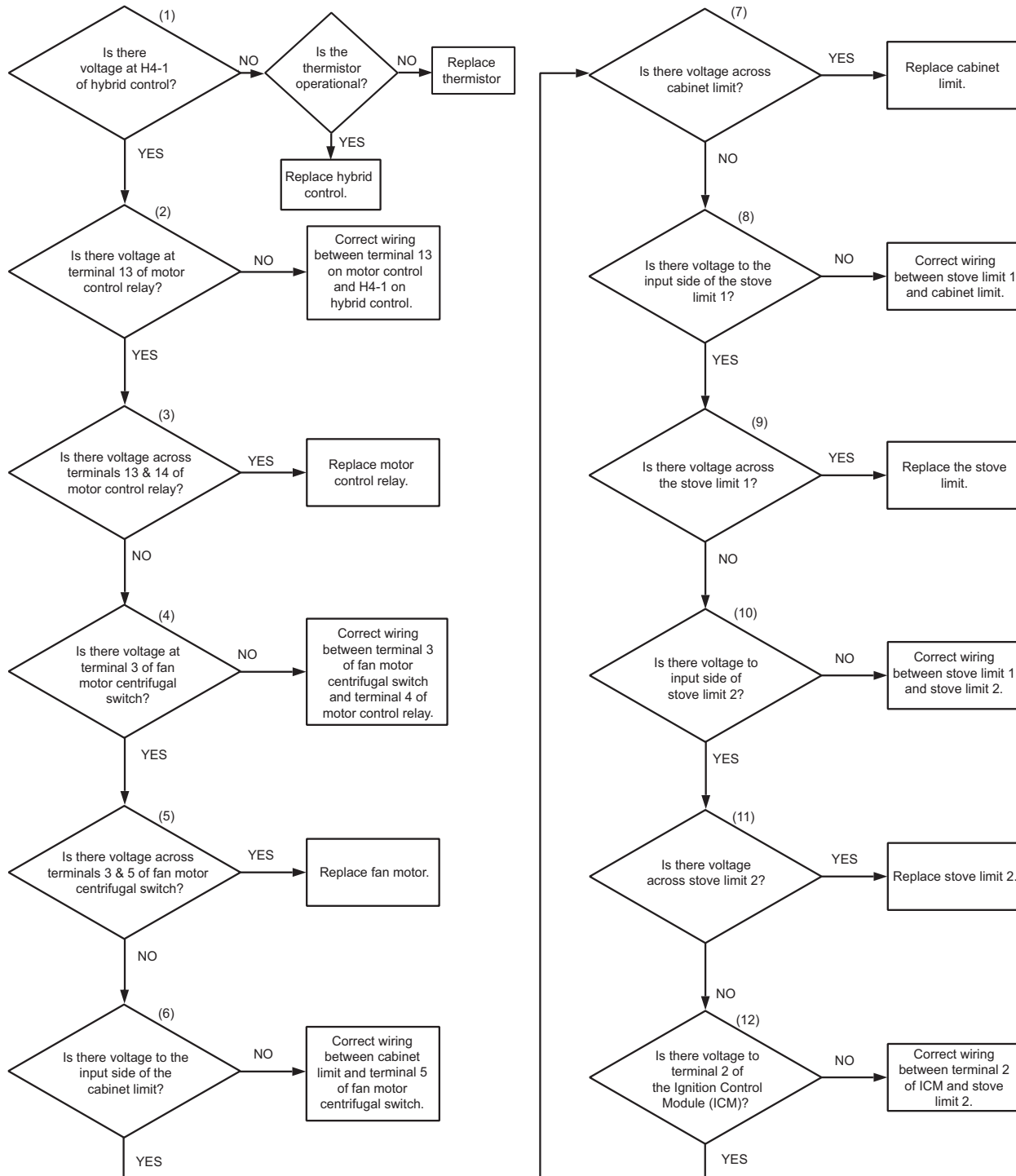
Unit Will Not Heat – Gas – SD and SX Control Suffixes



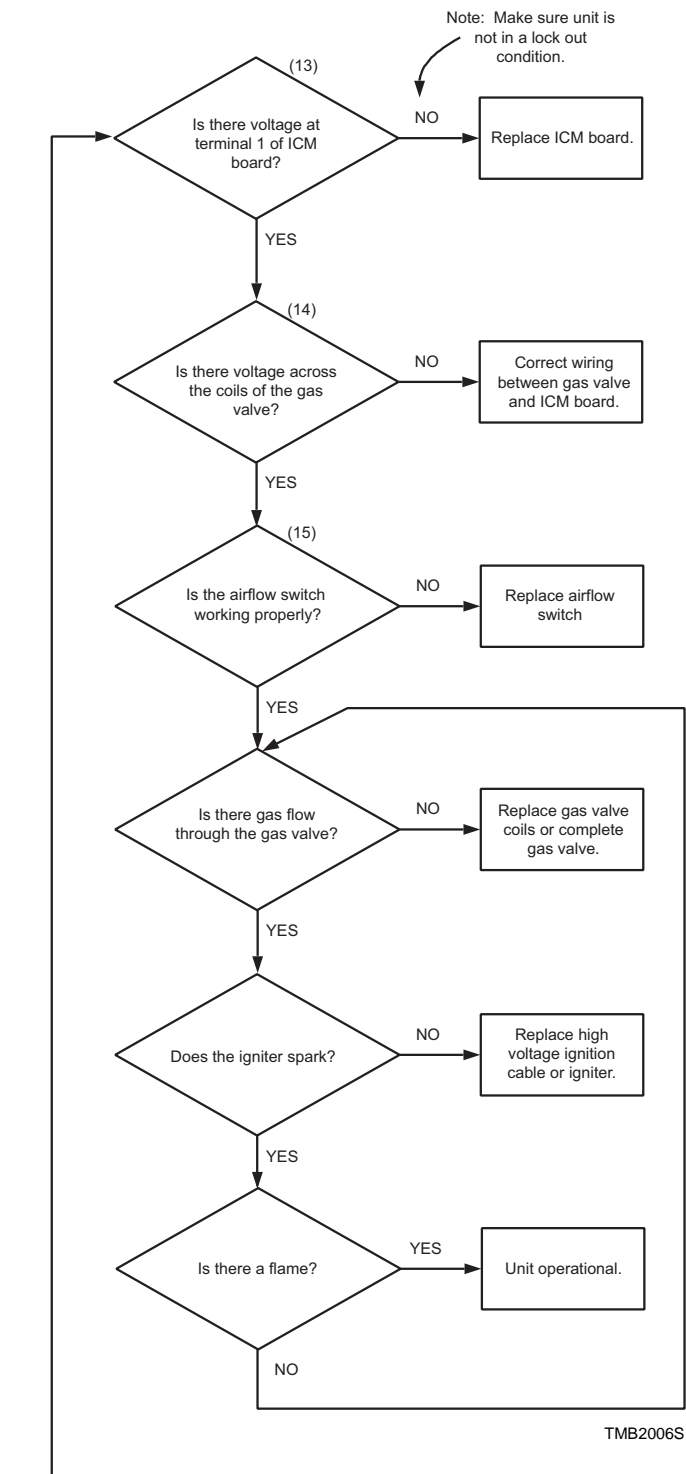
76. Unit Will Not Heat – Gas – QT and RQ Control Suffixes

Note: Tests are conducted with unit running and calling for heat.

All voltage checks are referenced to transformer neutral.

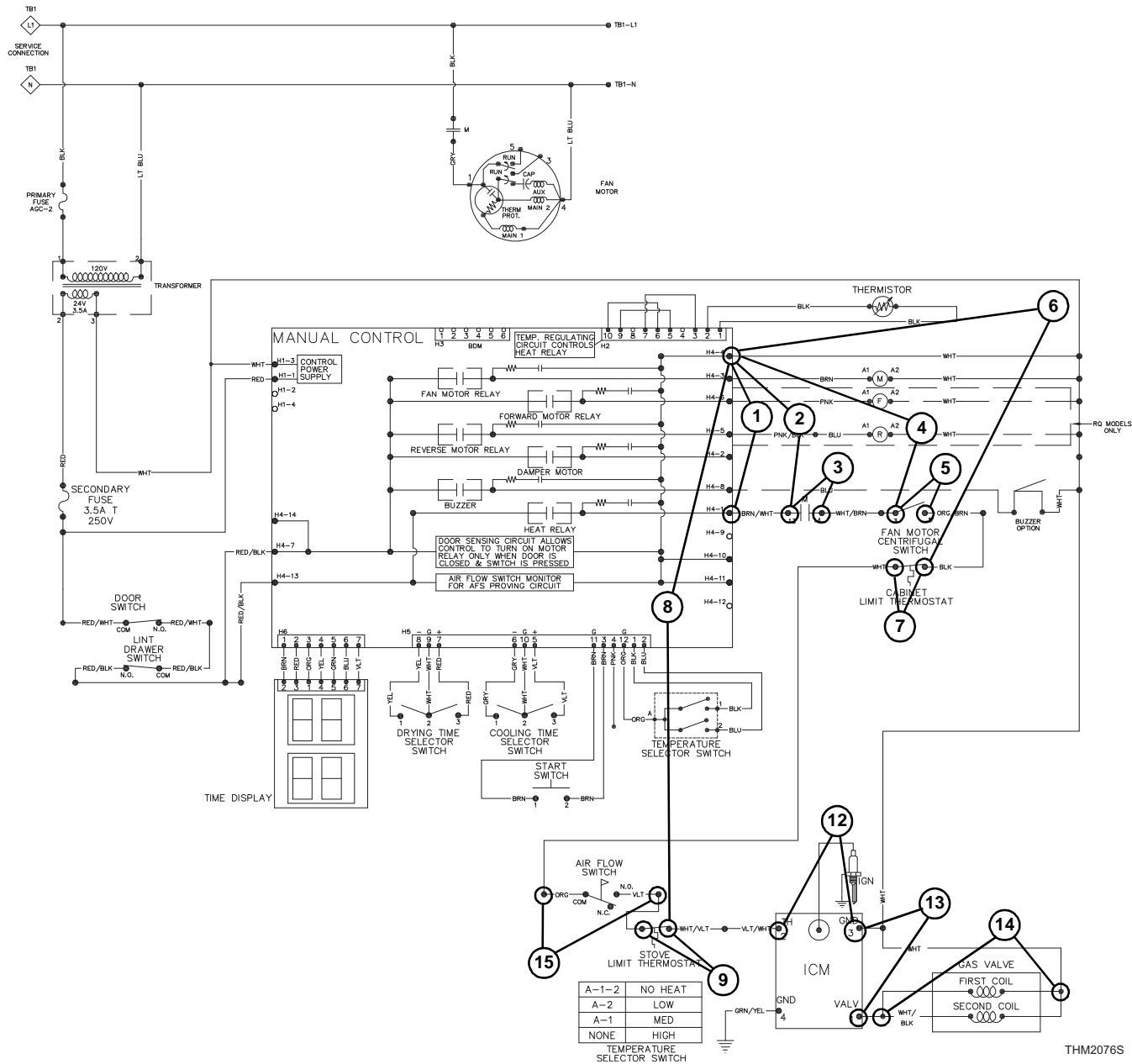


76. Unit Will Not Heat – Gas – QT and RQ Control Suffixes (continued)

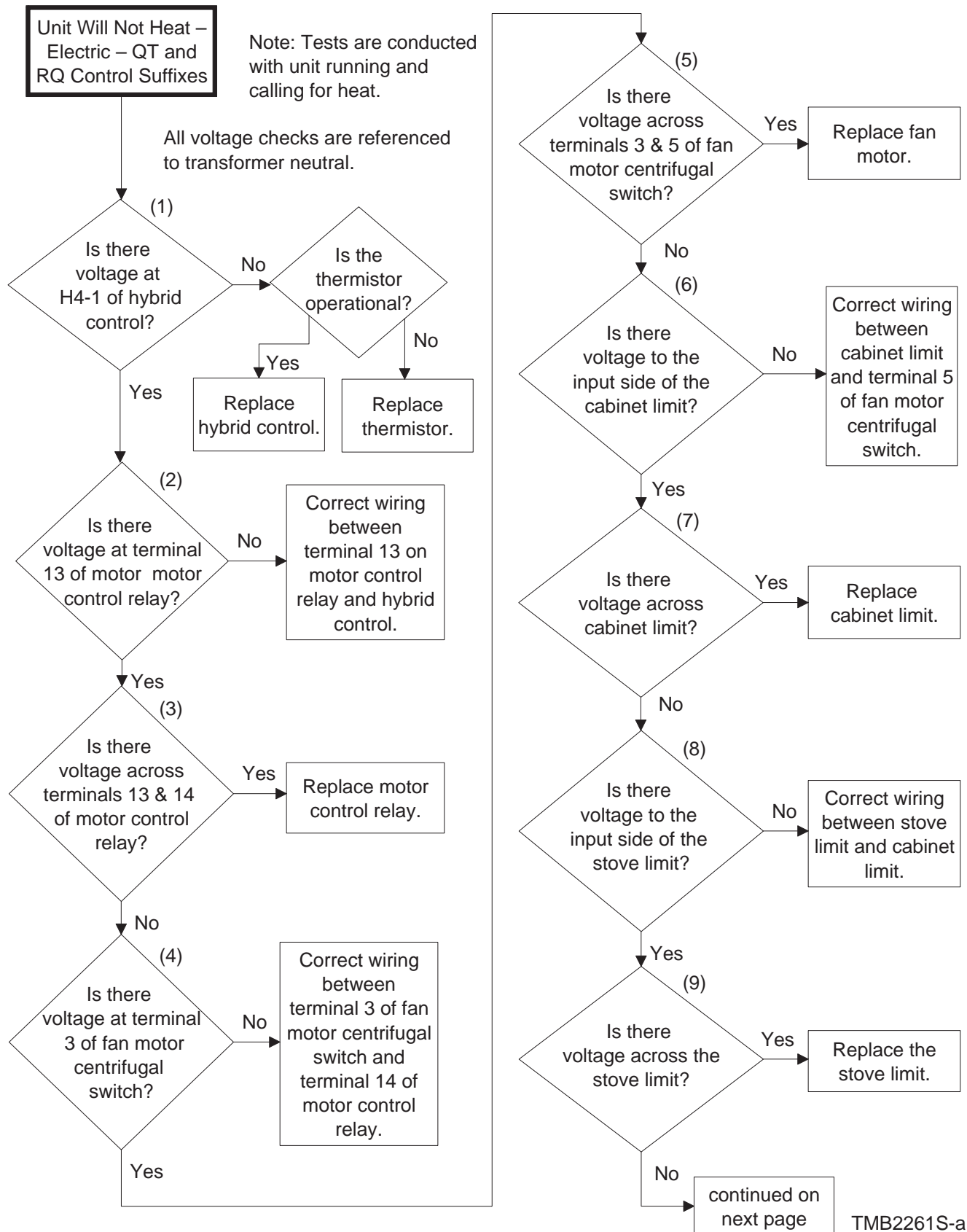


Please see following page for wiring diagram information.

Unit Will Not Heat – Gas – QT and RQ Control Suffixes

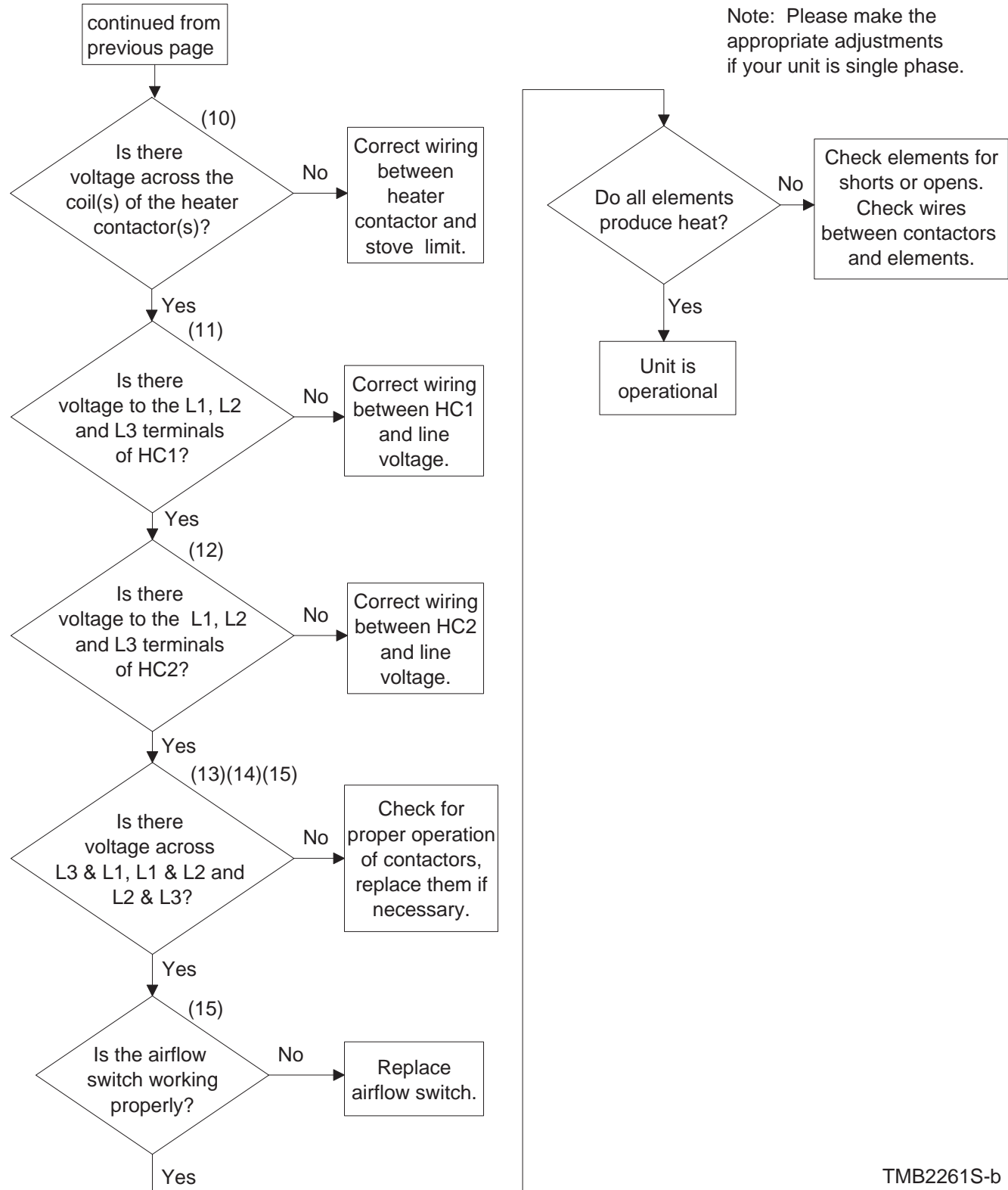


77. Unit Will Not Heat – Electric – QT and RQ Control Suffixes



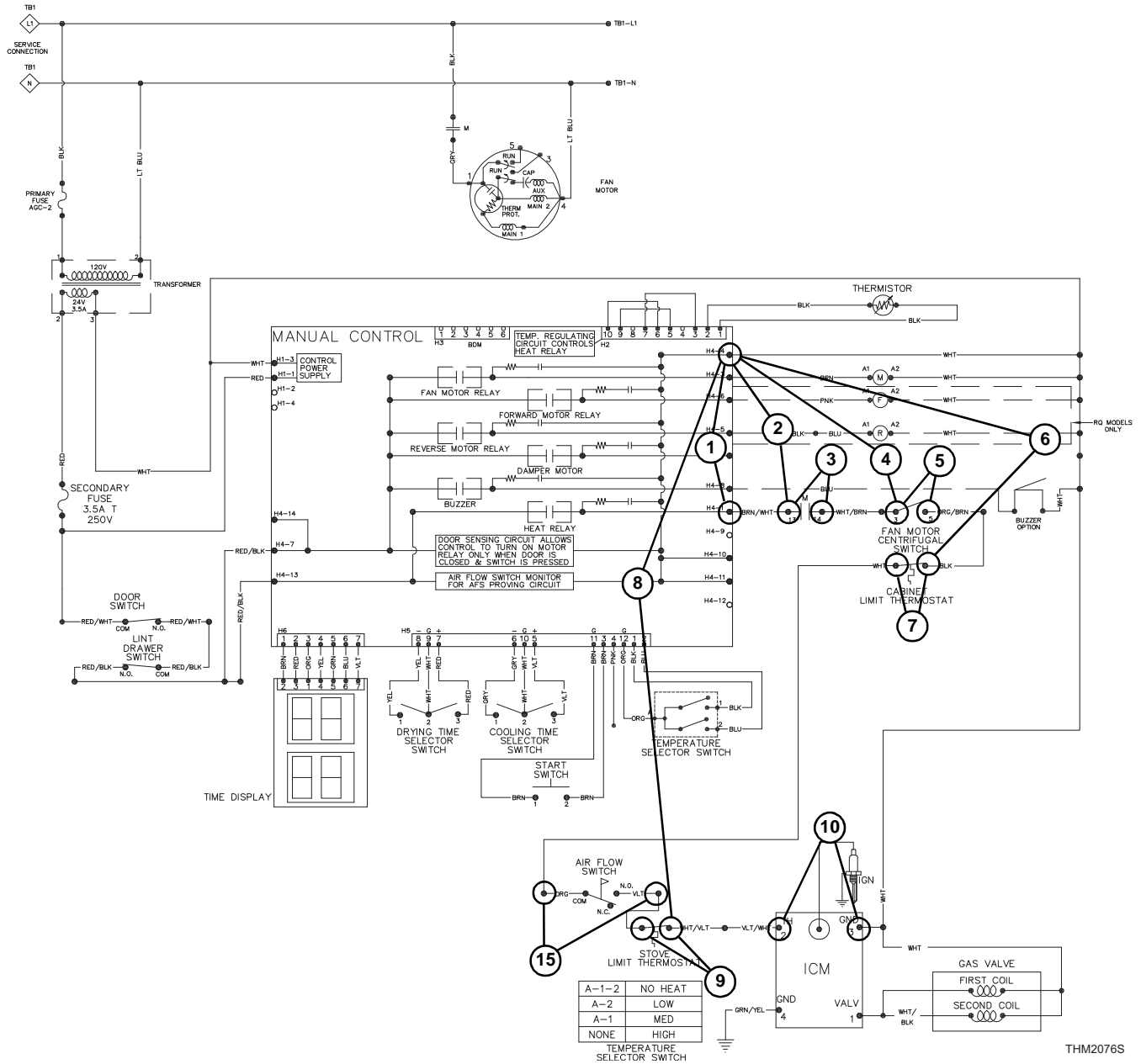
TMB2261S-a

77. Unit Will Not Heat – Electric – QT and RQ Control Suffixes (continued)



Please see following page for wiring diagram information.

Unit Will Not Heat – Electric – QT and RQ Control Suffixes





WARNING

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

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1

78. Error Codes

Display	Definition	Corrective Action
OP	Open thermistor error.	<ul style="list-style-type: none"> • Check thermistor. Replace if inoperative. • Check wiring between control and thermistor. Refer to wiring diagram for proper wiring. • Check control. Replace if inoperative.
SH	Shorted thermistor error.	<ul style="list-style-type: none"> • Check thermistor. Replace if inoperative. • Check wiring between control and thermistor. Refer to wiring diagram for proper wiring. • Check control. Replace if inoperative.
AF-1	Airflow switch closed when cycle started.	<ul style="list-style-type: none"> • Check airflow switch. Replace if inoperative.
AF-2	Airflow switch failed to closed after cycle started.	<ul style="list-style-type: none"> • Check airflow switch. Replace if inoperative.
AF (flashing)	Airflow switch opened/closed 5 or more times in a running cycle.	<ul style="list-style-type: none"> • Check airflow switch. Replace if inoperative.