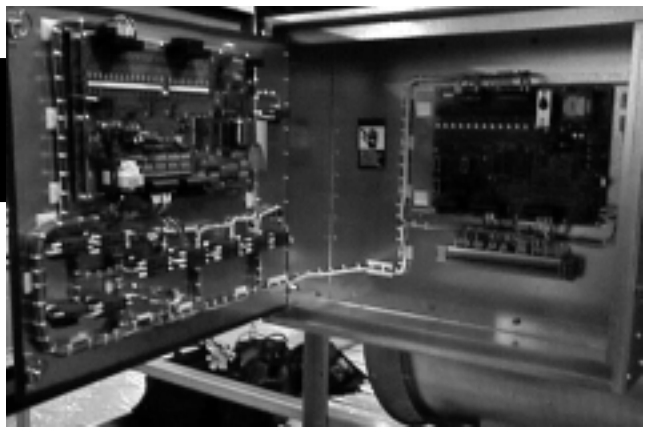
Top Dry
Pre-98

Wiring Diagram Manual

PNEG-693



a division of

THE GSI GROUP

This equipment shall be installed in accordance iwth the current **INSTALLATION CODES FOR GAS BURNING APPLICANCES AND EQUIPMENT, CAN1_B149.1 and B149.2,** or applicable provincial regulations which should be carefully followed in all cases. Authorities having jurisdiction shuld be consulted before installations are made.

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Roof Damage Warning and Disclaimer

GSI DOES NOT WARRANT ANY ROOF DAMAGE CAUSED BY EXCESSIVE VACUUM OR INTERNAL PRESSURE FROM FANS OR OTHER AIR MOVING SYSTEMS. ADEQUATE VENTILATION AND/OR "MAKEUP AIR" DEVICES SHOULD BE PROVIDED FOR ALL POWERED AIR HANDLING SYSTEMS. GSI DOES NOT RECOMMEND THE USE OF DOWNWARD FLOW SYSTEMS (SUCTION). SEVERE ROOF DAMAGE CAN RESULT FROM ANY BLOCKAGE OF AIR PASSAGES. RUNNING FANS DURING HIGH HUMIDITY/COLD WEATHER CONDITIONS CAN CAUSE AIR EXHAUST OR INTAKE PORTS TO FREEZE.

Fan/Heater Installation & Operating Instructions

Thank you for choosing a Top Dry. It is designed to give excellent performance and service for many years.

The principal concern of the GSI Group, Inc. ("GSI") is your safety and the safety of others associated with grain handling equipment. This manual is written to help you understand safe operating procedures, and some of the problems that may be encountered by the operator or other personnel.

As owner and/or operator, it is your responsibility to know what requirements, hazards and precautions exist, and to inform all personnel associated with the equipment, or who are in the fan area. Avoid any alterations to the equipment. Such alterations may produce a very dangerous situation, where serious injury or death may occur.

Safety Alert Symbol

The symbol shown is used to call your attention to instructions concerning your personal safety. Watch for this symbol; it points out important safety precautions. It means "ATTENTION", "WARNING", "CAUTION", and "DANGER". Read the message and be cautious to the possibility of personal injury or death.

WARNING! BE ALERT!

Personnel operating or working around electric fans should read this manual. This manual must be delivered with the equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

Grain Systems, Inc. recommends contacting your local power company, and having a representative survey your installation so the wiring is compatible with their system, and adequate power is supplied to your unit.

Safety decals should be read and understood by all people in the grain handling area. The rotating blade, fire warning decals and voltage danger decal must be displayed on the fan can. The bottom right decal should be present on the inside bin door cover of the two ring door, 24" porthole door cover and the roof manway cover.

If a decal is damaged or is missing contact:

Grain Systems, Inc.
1004 E. Illinois St.
Assumption, IL 62510
217-226-4421

A free replacement will be sent to you.

READ THESE INSTRUCTIONS
BEFORE OPERATION AND SERVICE
SAVE FOR FUTURE REFERENCE

1. Read and understand the operating manual before trying to operate the dryer.

2. Power supply should be OFF for service of electrical components. Use CAUTION in checking voltage or other procedures requiring power to be ON.

3. Check for gas leaks at all gas pipe connections. If any leaks are detected, do not operate the dryer. Shut down and repair before further operation.

4. Never attempt to operate the dryer by jumping or otherwise bypassing any safety devices on the unit.

5. Set pressure regulator to avoid excessive gas pressure applied to burner during ignition and when burner is in operation. Do not exceed maximum recommended drying temperature.

6. Keep the dryer clean. Do not allow fine material to accumulate in the plenum or drying chamber.

7. Use CAUTION in working around high speed fans, gas burners, augers and auxiliary conveyors which START AUTOMATICALLY.

8. Do not operate in any area where combustible material will be drawn into the fan.

9. Before attempting to remove and reinstall any propellor, make certain to read the recommended procedure listed within the servicing section of the manual.

10. Clean grain is easier to dry. Fine material increases resistance to airflow and requires removal of extra moisture.

This product is intended for the use of grain handling only. Any other use is considered a misuse of the product.
Some edges of the product components can be sharp. It is recommended that each component of this product be examined to determine if there are any safety considerations to be taken. Any and all necessary personal protective equipment should be worn at all tines when handling, assembling, installing and operation of the product and/or components.
Guards are removed for illustration purpose only. All guardsmust be in place before/during operation.

Use Caution in the Operation of this Equipment

The design and manufacture of this dryer is directed toward operator safety. However, the very nature of a grain dryer having a gas burner, high voltage electrical equipment and high speed rotating parts, does present a hazard to personnel, which can not be completely safeguarded against, without interfering with efficient operation and reasonable access to components.
Use extreme caution in working around high speed fans, gas-fired heaters, augers and auxiliary conveyors, which may start without warning when the dryer is operating on automatic control.

KEEP THE DRYER CLEAN
DO NOT ALLOW FINE
MATERIAL TO ACCUMULATE
IN THE PLENUM CHAMBER
OR SURROUNDING THE
OUTSIDE OF THE DRYER

Continued safe, dependable operation of automatic equipment depends, to a great degree, upon the owner. For a safe and dependable drying system, follow the recommendations within this manual, and make it a practice to regularly inspect the operation of the unit for any developing problems or unsafe conditions.
Take special note of the safety precautions listed above before attempting to operate the dryer.

SAFETY SIGN-OFF SHEET

Date	Employer's Signature	Employee

Power Supply

An adequate power supply and proper wiring are important factors for maximum performance and long life of the dryer. Electrical service must be adequate enough to prevent low voltage damage to motors and control circuits (see Electrical Load Information). **In 220V 1 phase and 220V 3 phase systems, a separate neutral wire is required for the 120V heater circuit, and should be connected to terminal #1 in the master heater. Do not run in conduit with motor power lines.**

Transformer and Wiring Voltage Drop

It is necessary to know the distance from the unit to the available transformer, and the horsepower of your fan unit. Advise the service representative of your local power supplier that an additional load will be placed on the line. Each fan motor should be wired through a fused or circuit breaker disconnect switch. Check on KVA rating of transformers, considering total horsepower load. The power supply wiring, main switch equipment and transformers must provide adequate motor starting and operating voltage. Voltage drop during motor starting should not exceed 14% of normal voltage, and after motor is running at full speed it should be within 8% of normal voltage. Check Electrical Load Information for HP ratings and maximum amp loads to properly size wire and fusing elements. Standard electrical safety practices and codes should be used. (Refer to National Electrical Code Standard Handbook by National Fire Protection Association).

Machine to Earth Grounding

It is very important that a *Machine To Earth Ground Rod* be installed at the fan. This is true even if there is a ground at the pole 15 feet away. Place the ground rod that comes standard, within 8 feet of the dryer and attach it to the dryer control panel with at least a #6 solid, bare, copper ground wire and the clamp provided. The grounding rod located at the power pole will not provide adequate grounding for the dryer. The proper grounding will provide additional safety in case of any short and will ensure long life of all circuit boards, and the ignition system. The ground rod must be in accordance with local requirements.

Proper Installation of Ground Rod

It is not recommended that the rod be driven into dry ground.

Follow these instructions for proper installation:

1. Dig a hole large enough to hold 1 to 2 gallons of water.
2. Fill hole with water.
3. Insert rod through water and jab it into the ground.
4. Continue jabbing the rod up and down. The water will work its way down the hole, making it possible to work the rod completely into the ground. This method of installing the rod gives a good conductive bond with the surrounding soil.
5. Connect the bare, copper ground wire to the rod with the proper ground rod clamp. See Figure 8.
6. Connect the bare copper ground wire to the fan control boxes with a grounding lug.

7. Ground wire must not have any breaks or splices.

Dig a hole large enough to hold 1 or 2 gallons of water. Work the ground rod into the earth until it is completely in the ground.

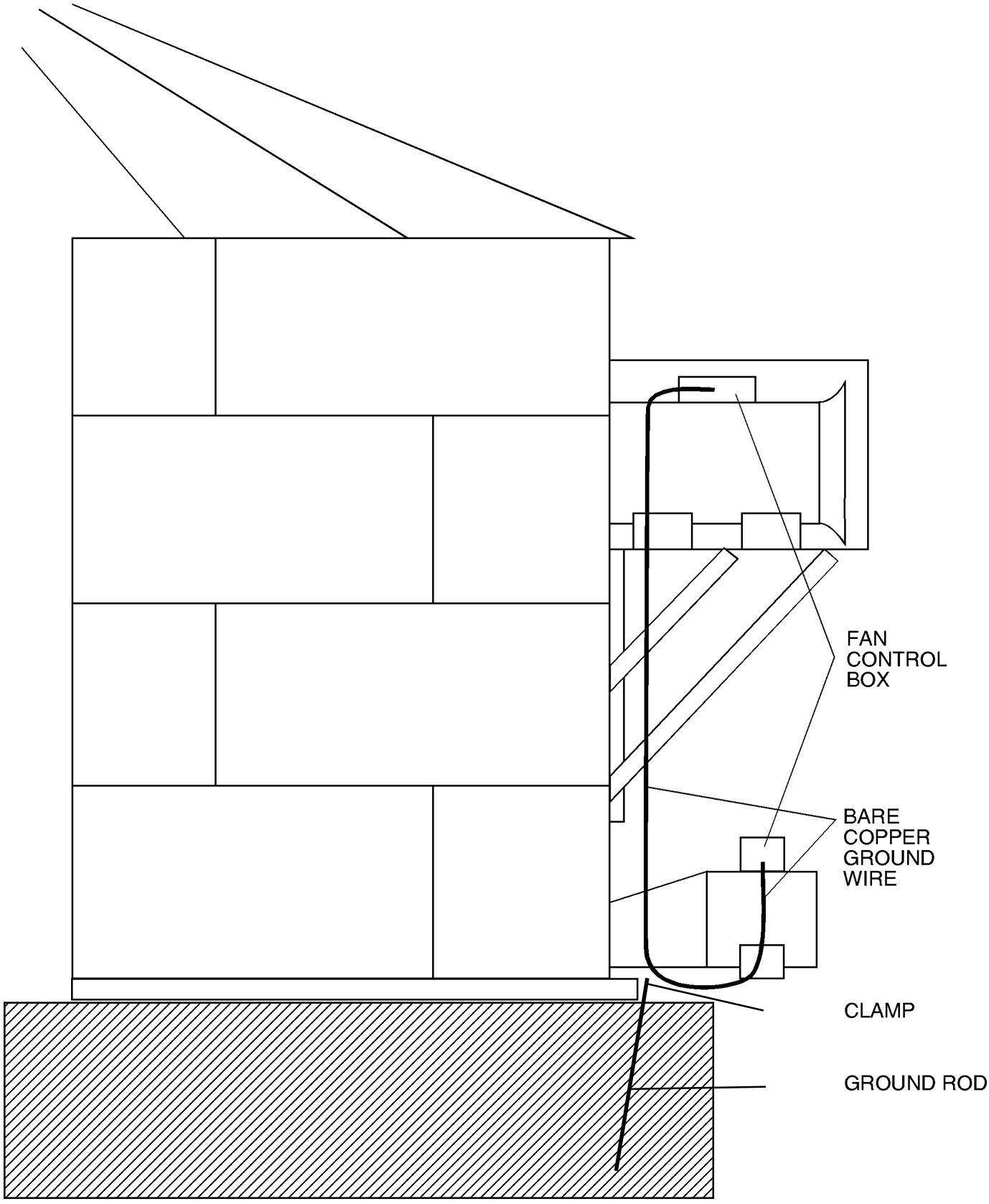
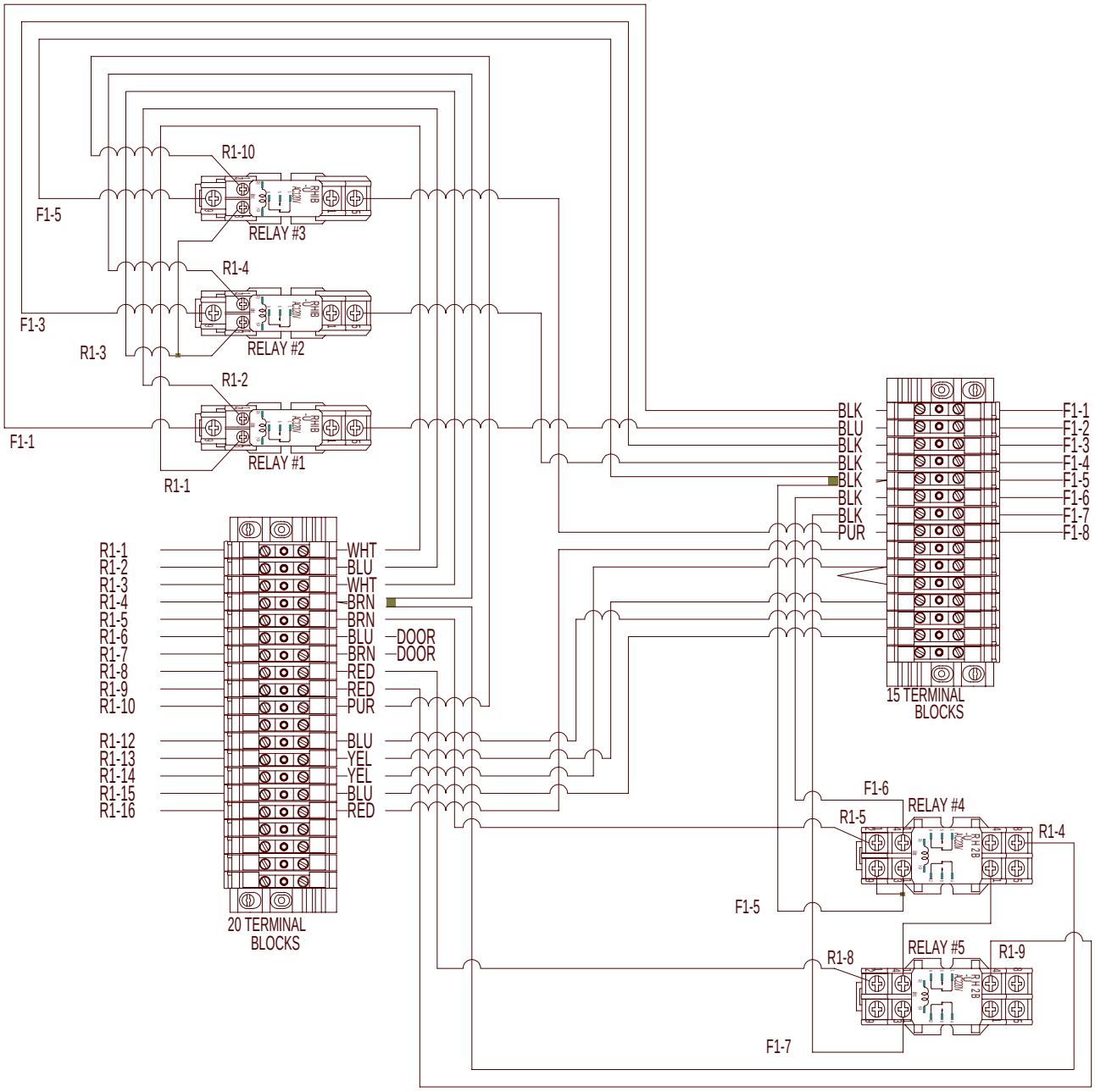


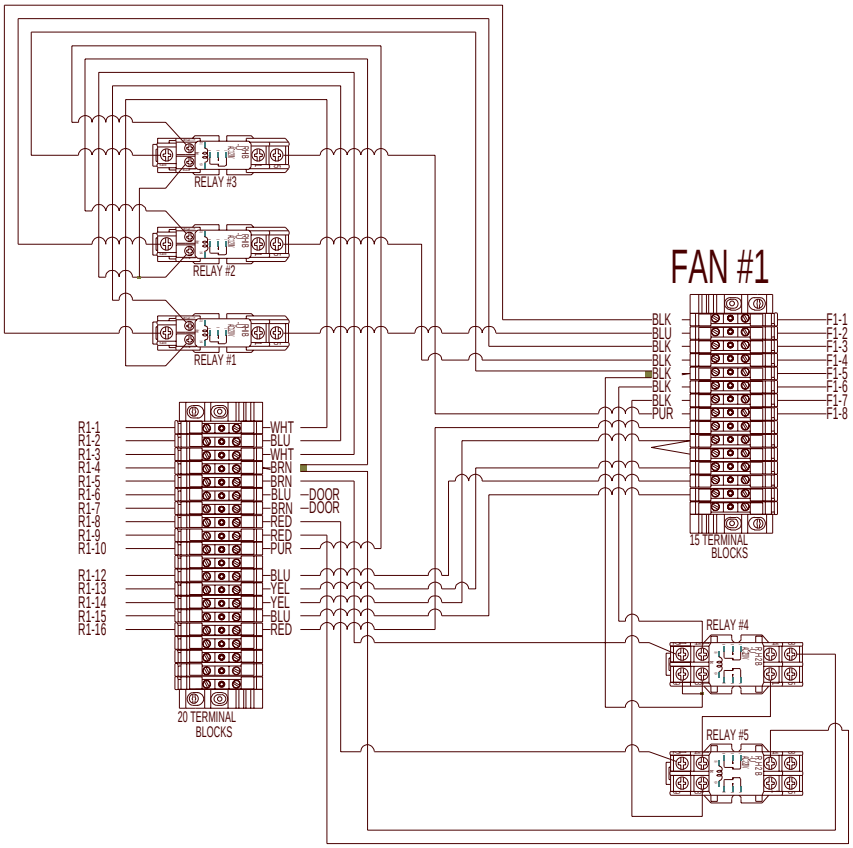
Figure 8: The Top Dry and ground rod attachment illustration.

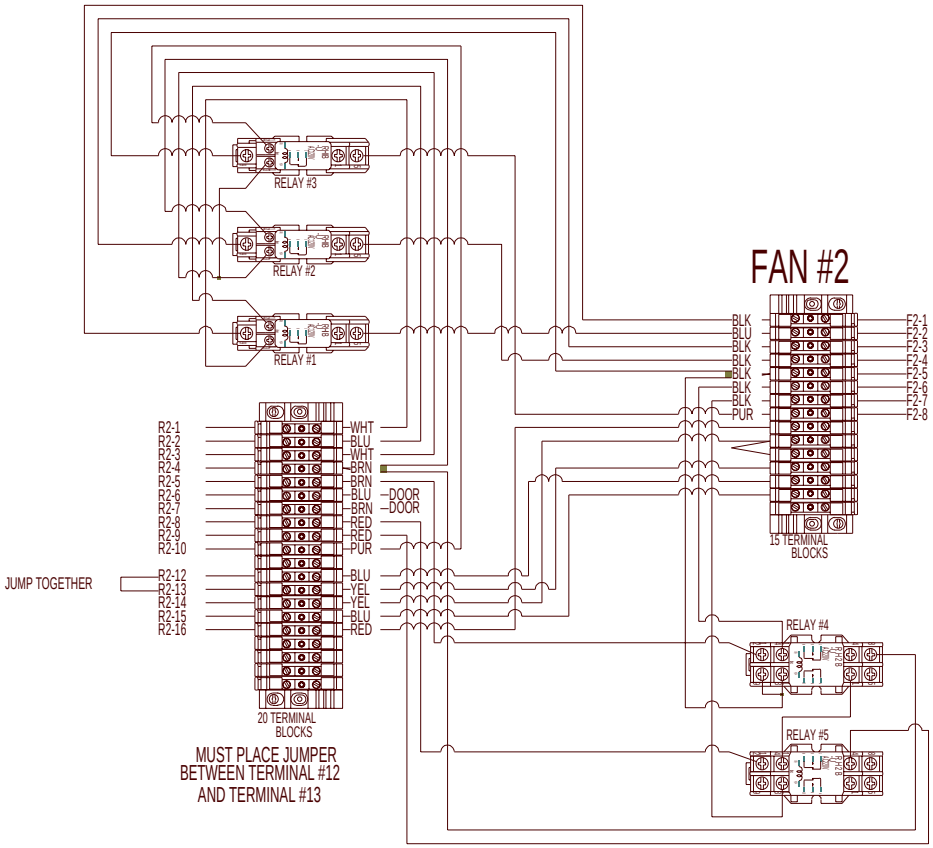
Pre-1997 Farm Fans
Autoflow Conversion

Pre-1997 Farm Fans Conversion-One Fan Wiring

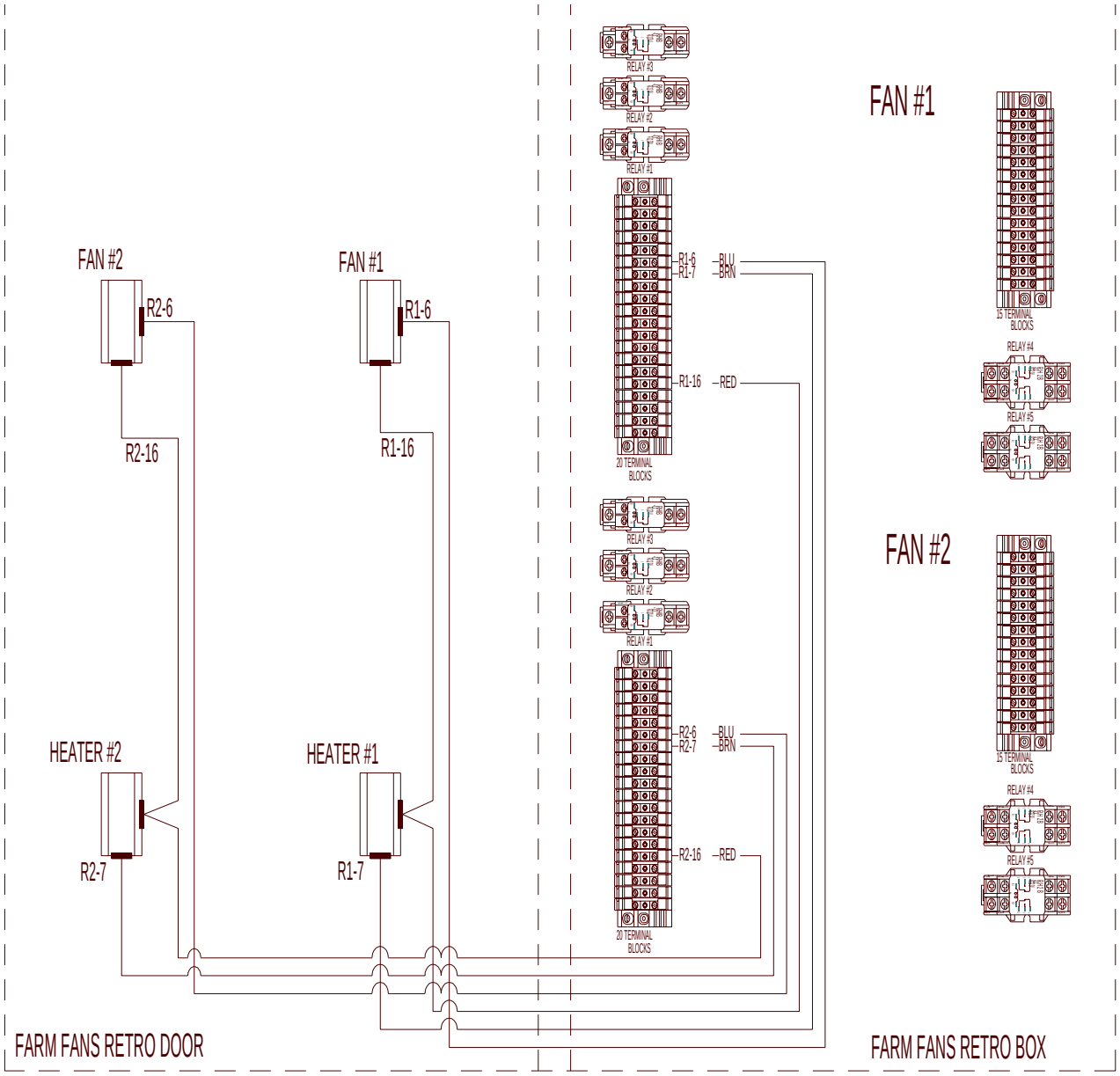


Pre-1997 Farm Fans Conversion-Two Fan Wiring

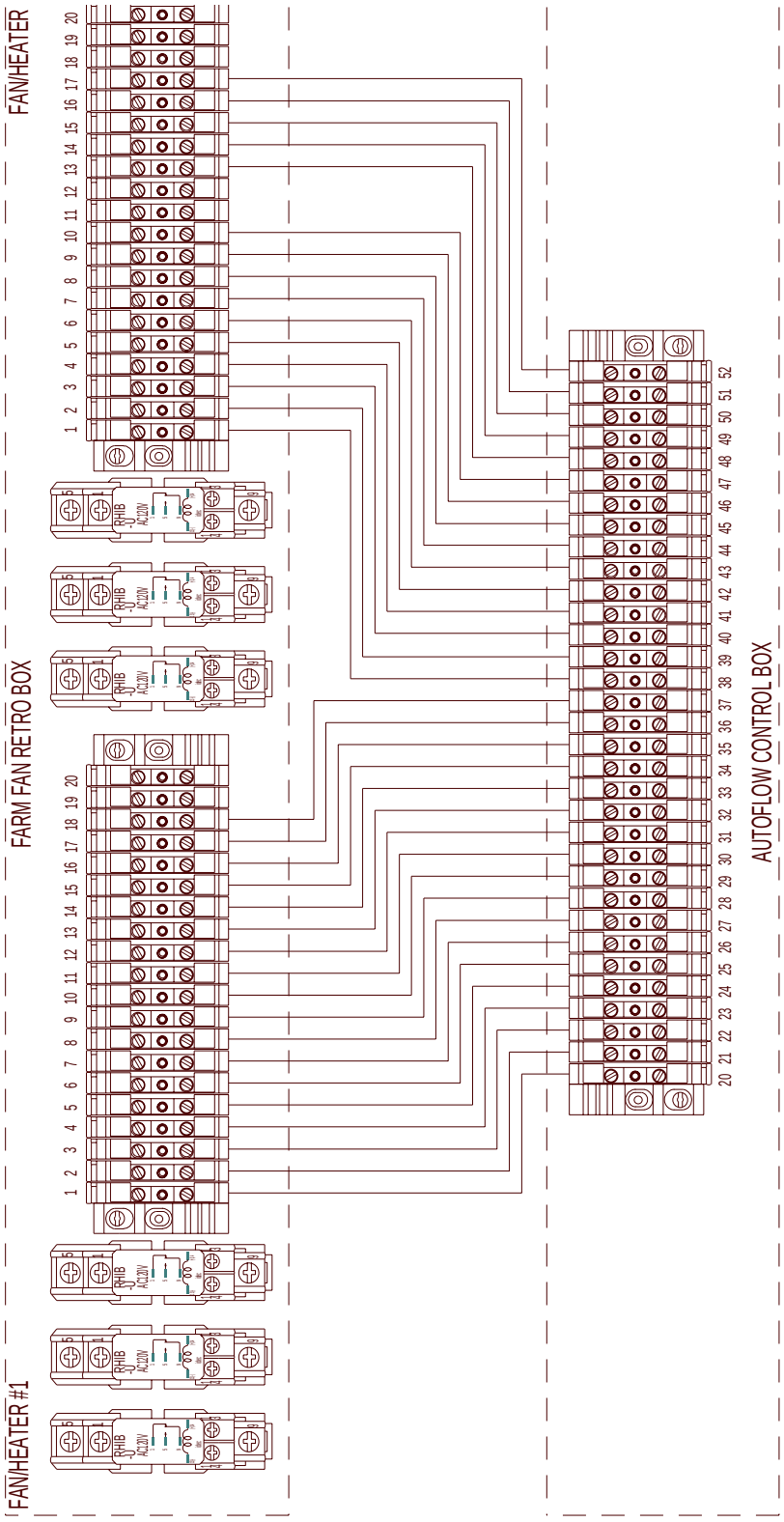




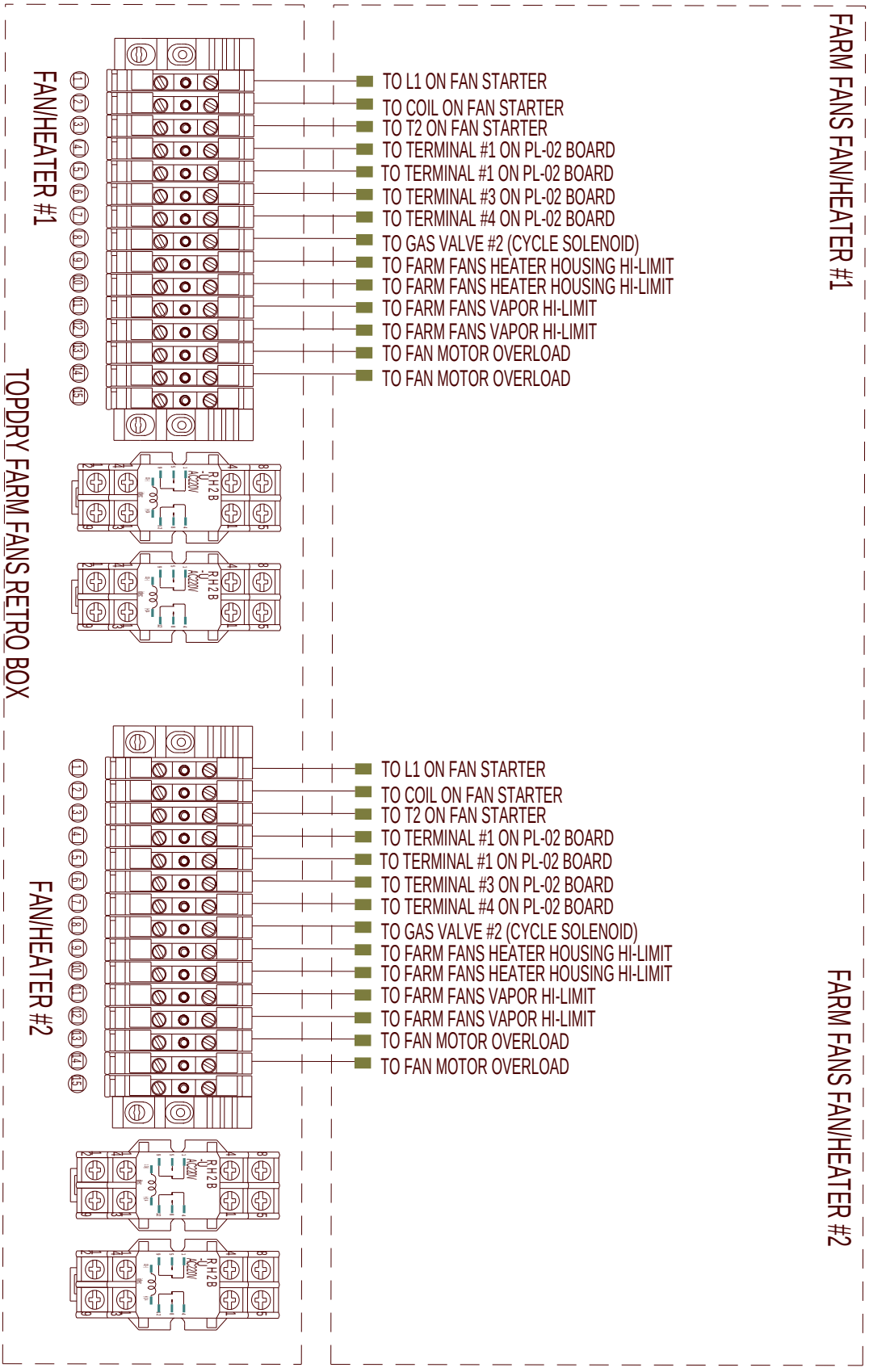
Pre-1997 Farm Fans Conversion-Door Wiring



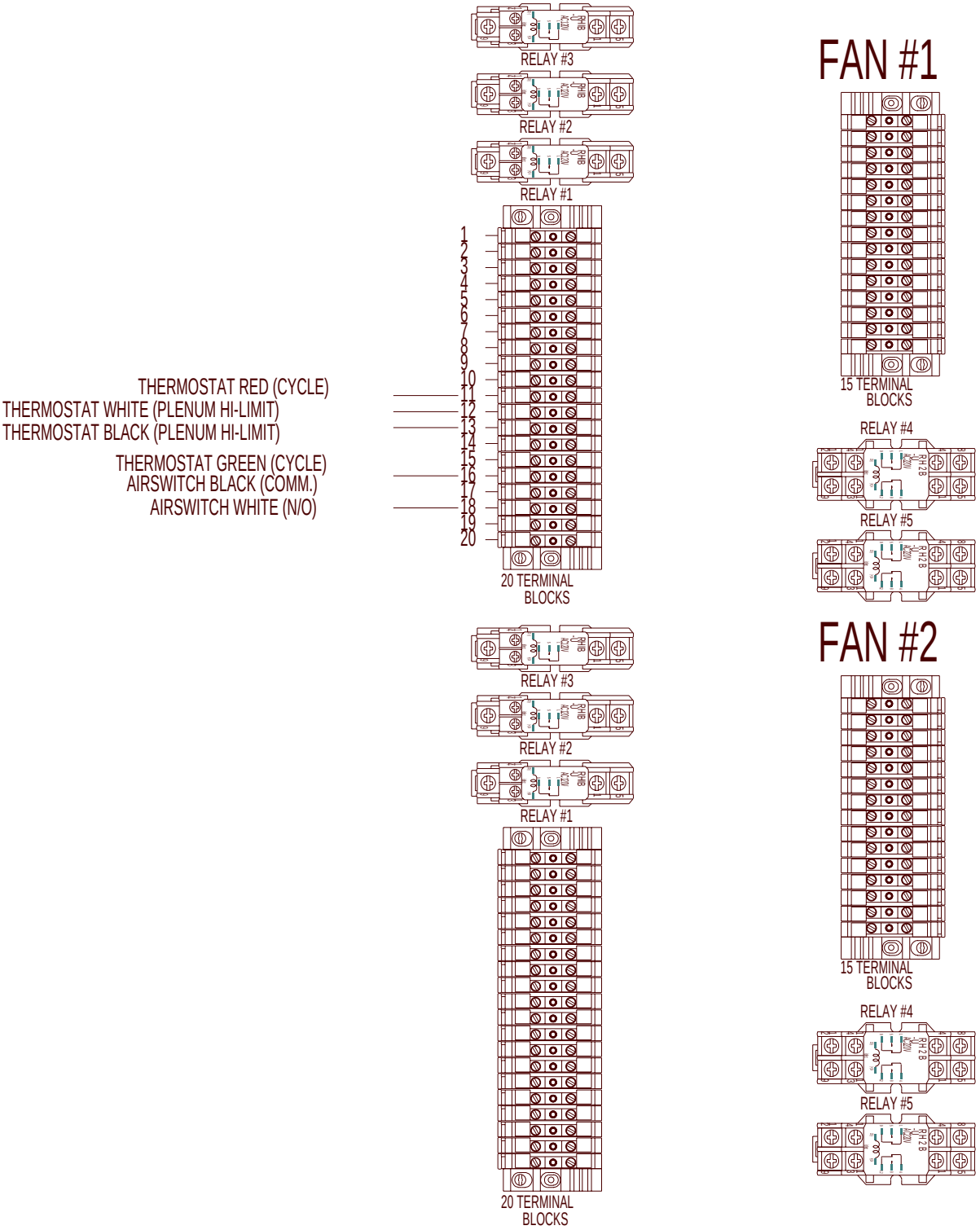
Pre-1997 Farm Fans Conversion-Autoflow Control Box to Conversion Box Interconnect



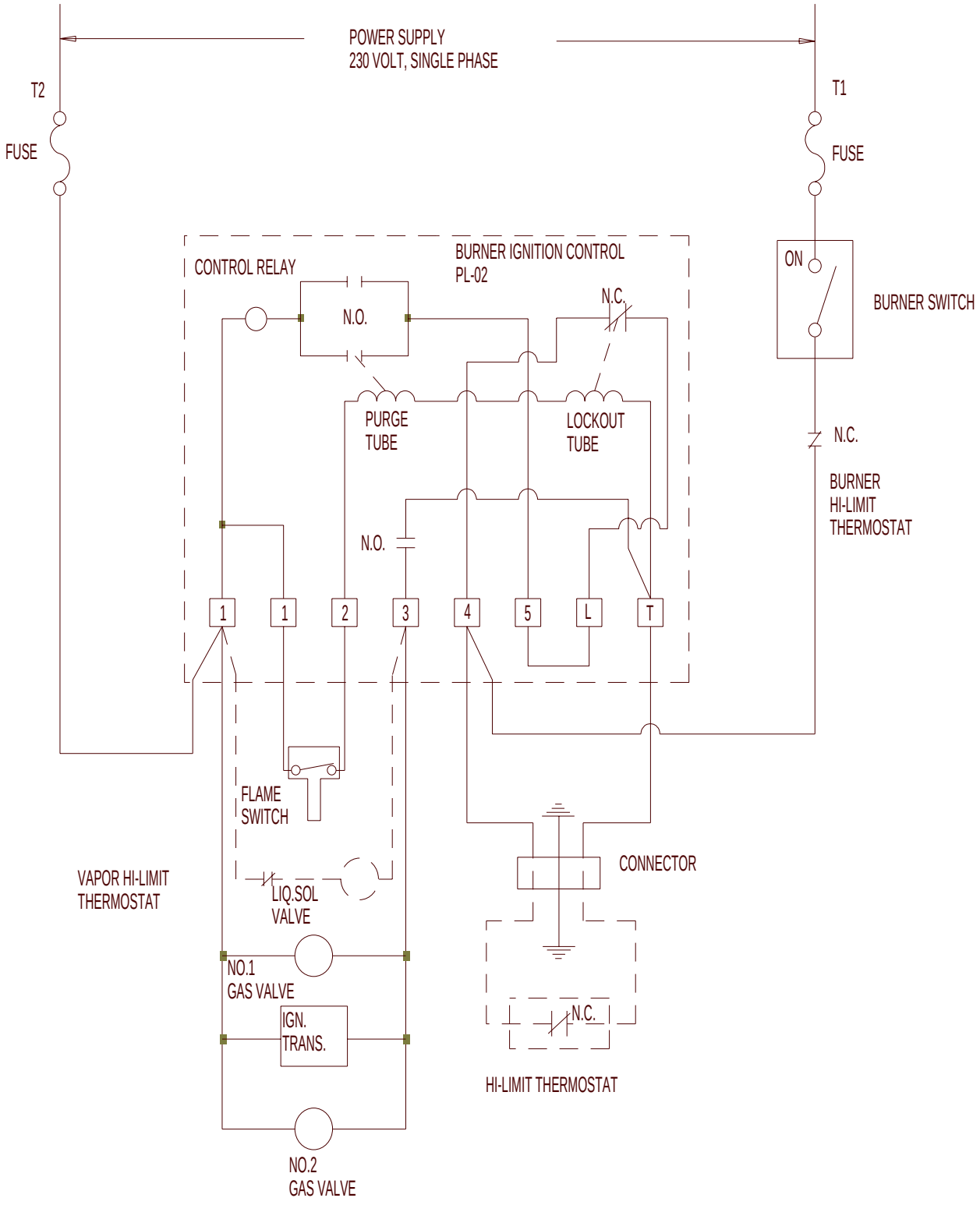
Pre-1997 Farm Fans Conversion-Conversion Box to Farm Fans Unit Interconnect



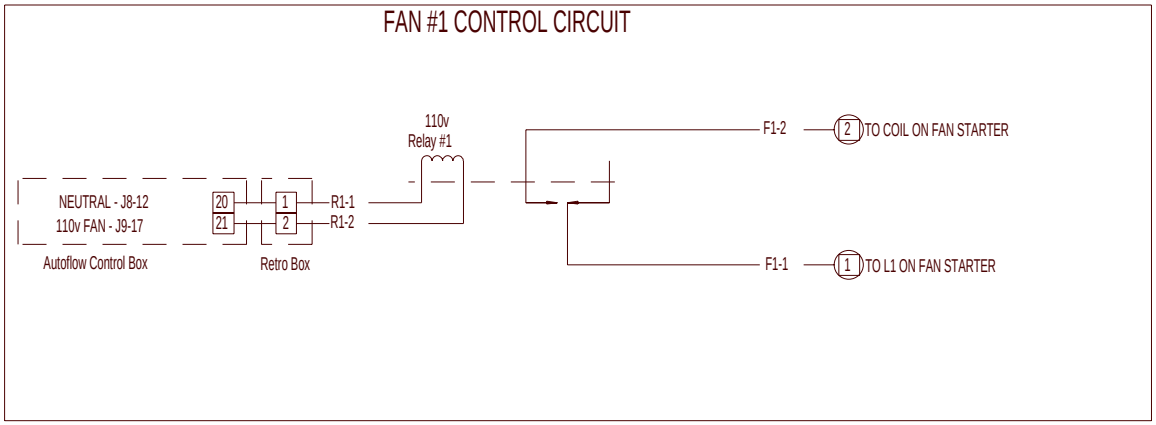
Pre-1997 Farm Fans Conversion-Conversion Box to Thermostat Interconnect

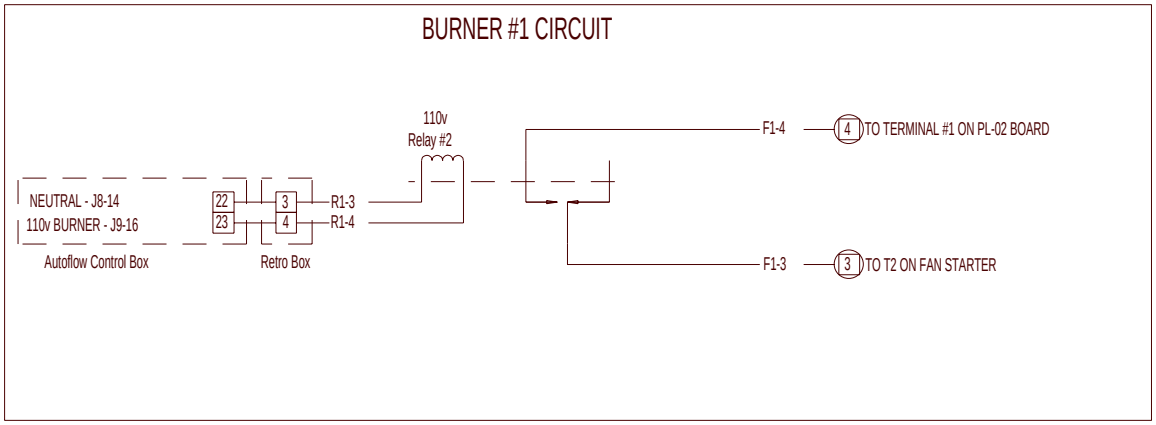


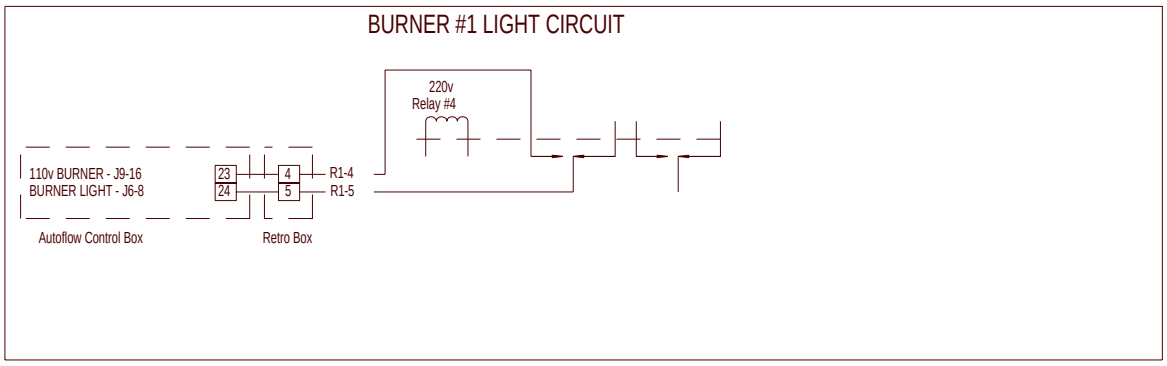
Pre-1997 Farm Fans Conversion- PL02 Schematic

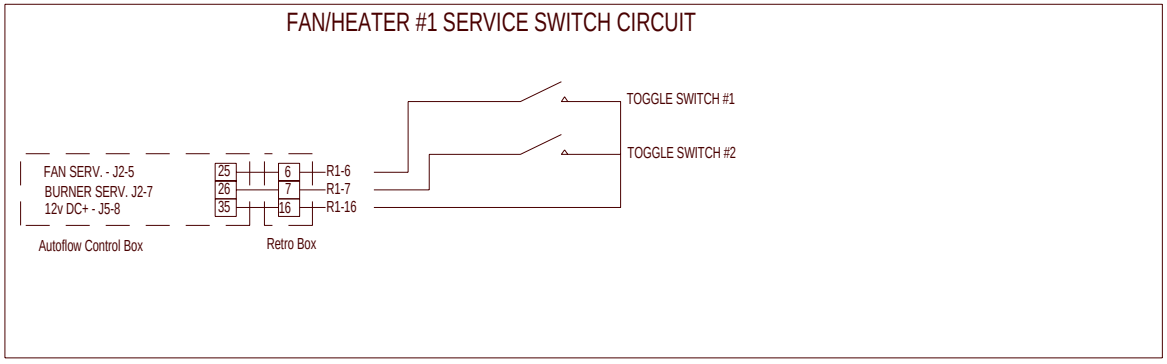


Pre-1997 Farm Fans Conversion-Schematics

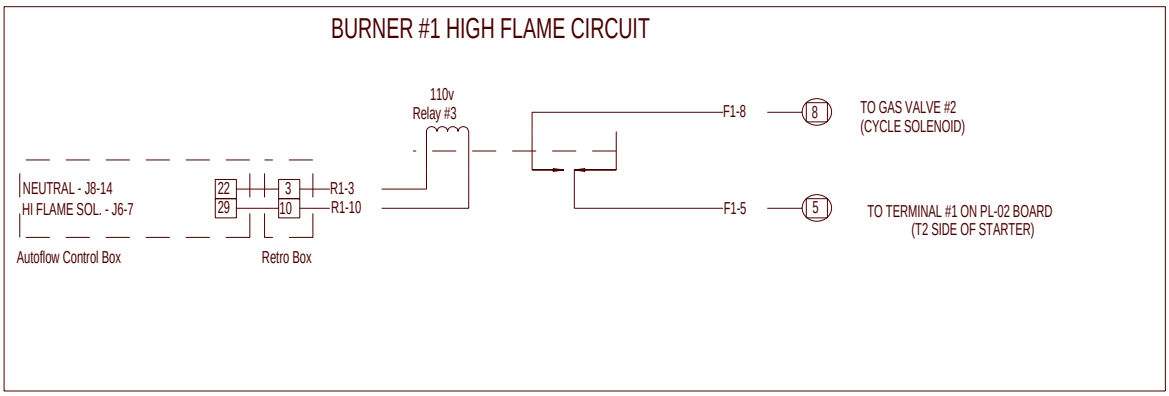


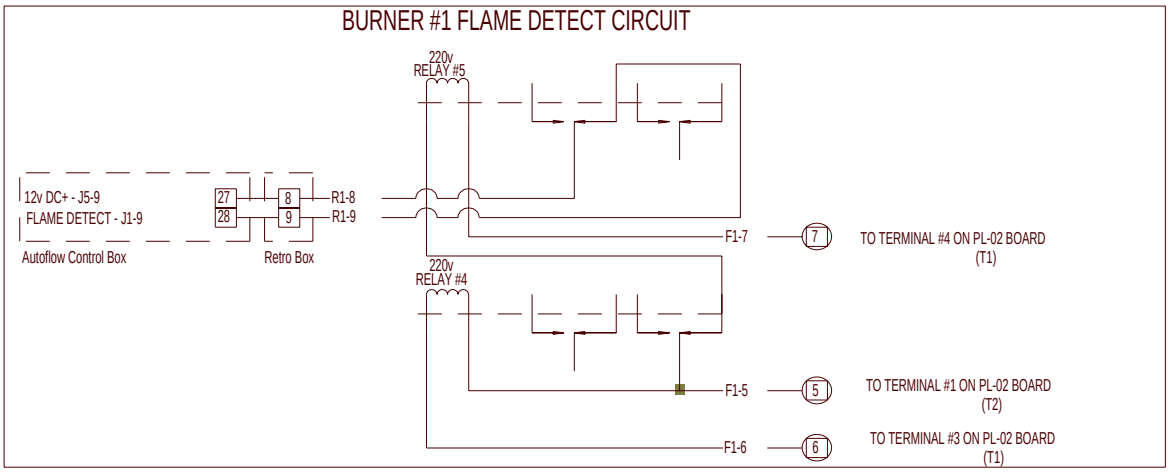


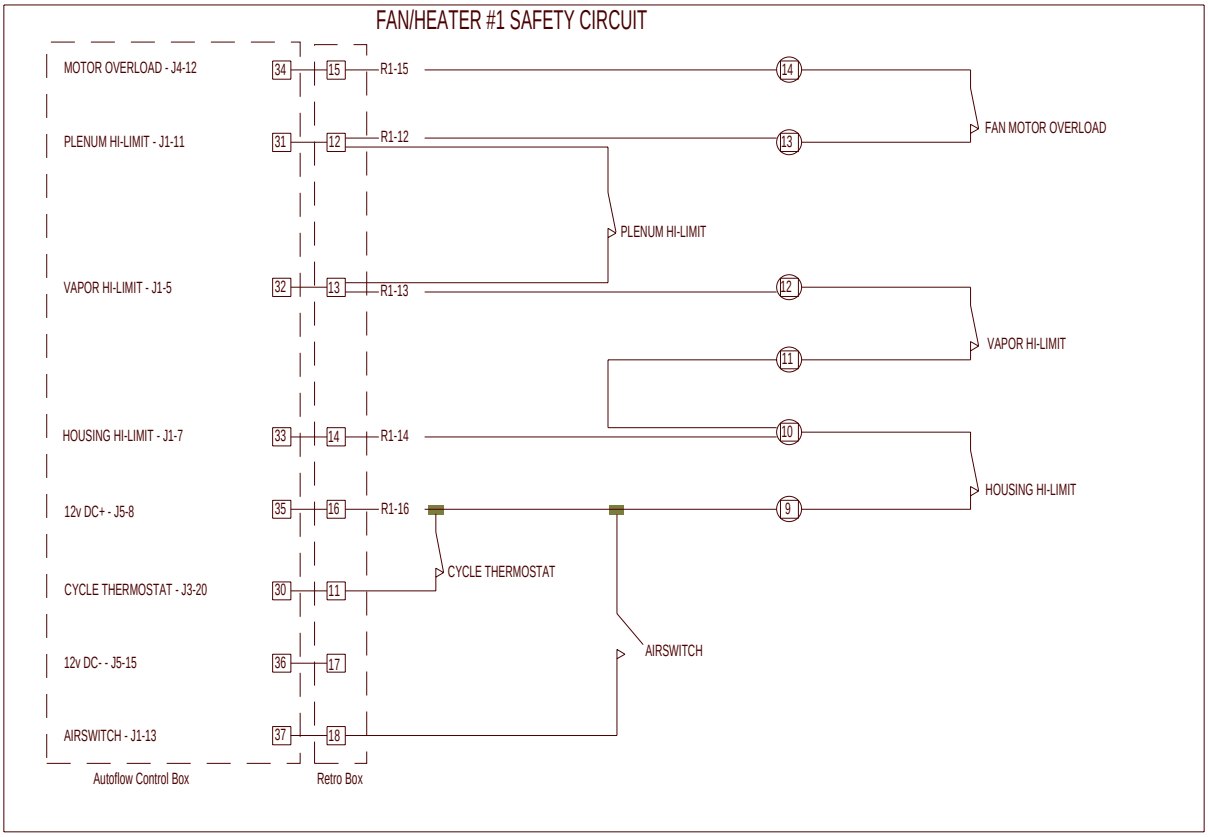




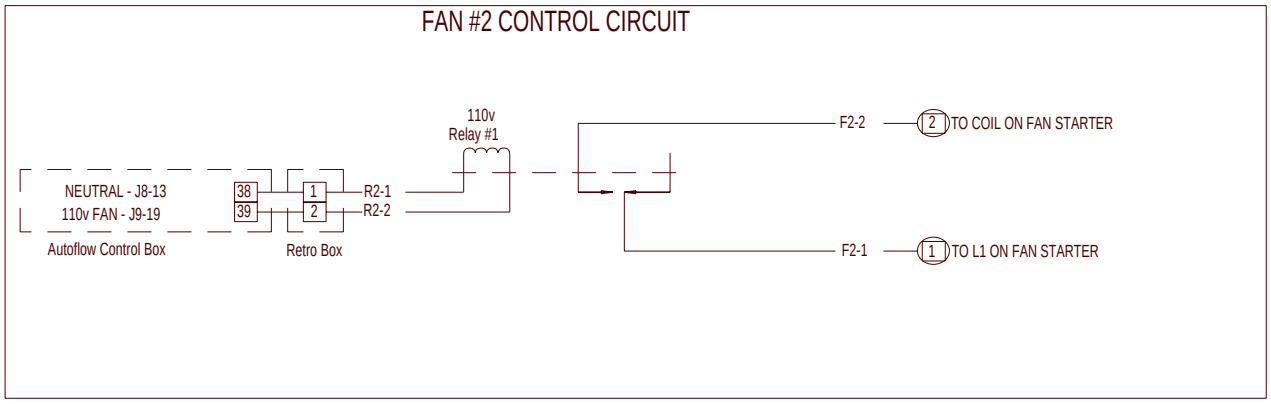
Pre-1997 Farm Fans Conversion-Schematics

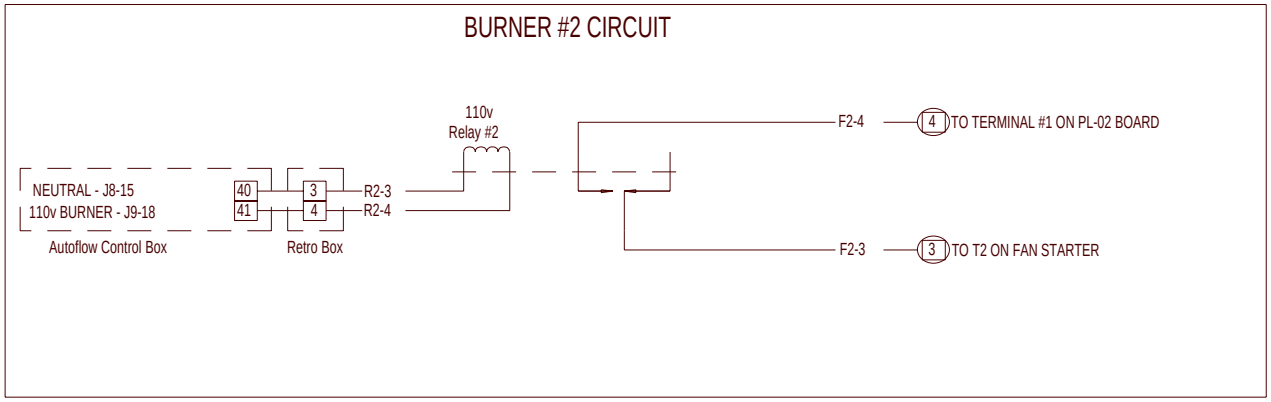


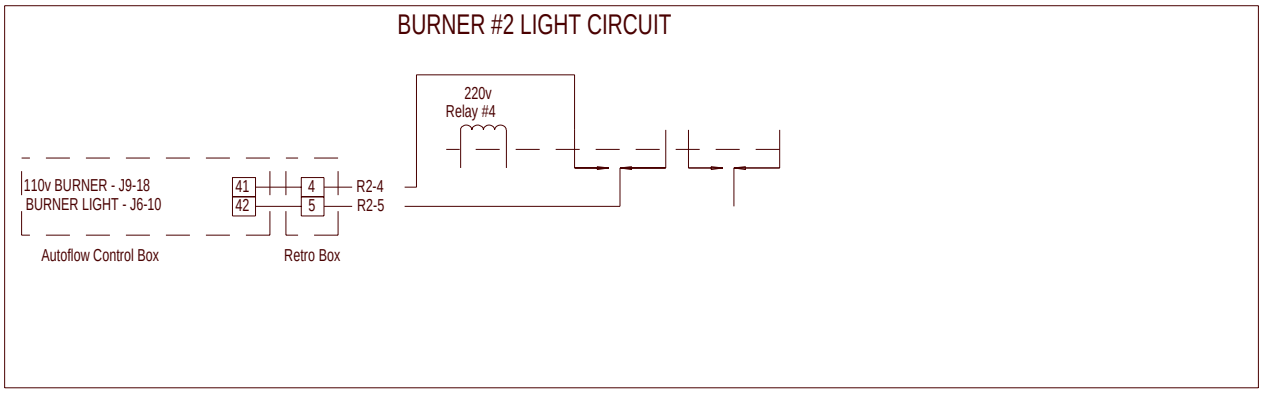


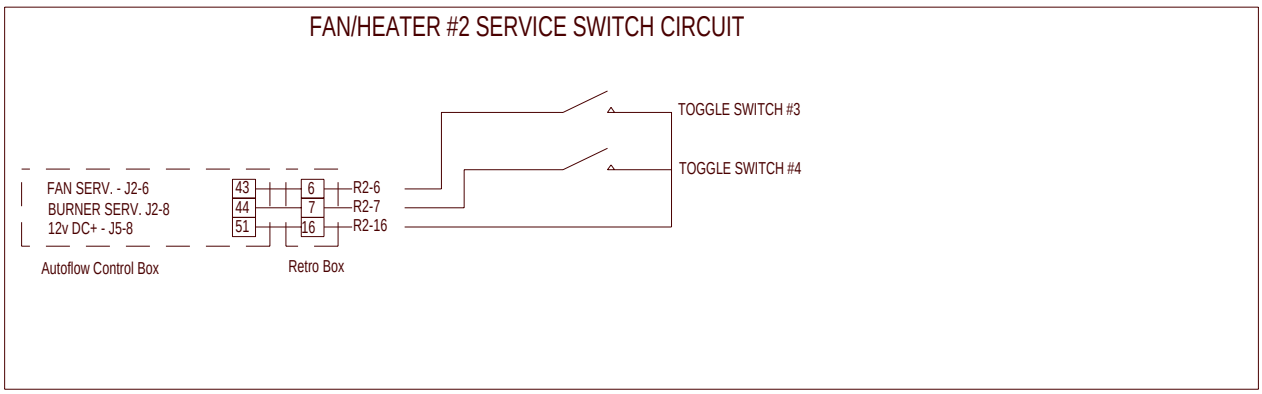


Pre-1997 Farm Fans Conversion-Schematics

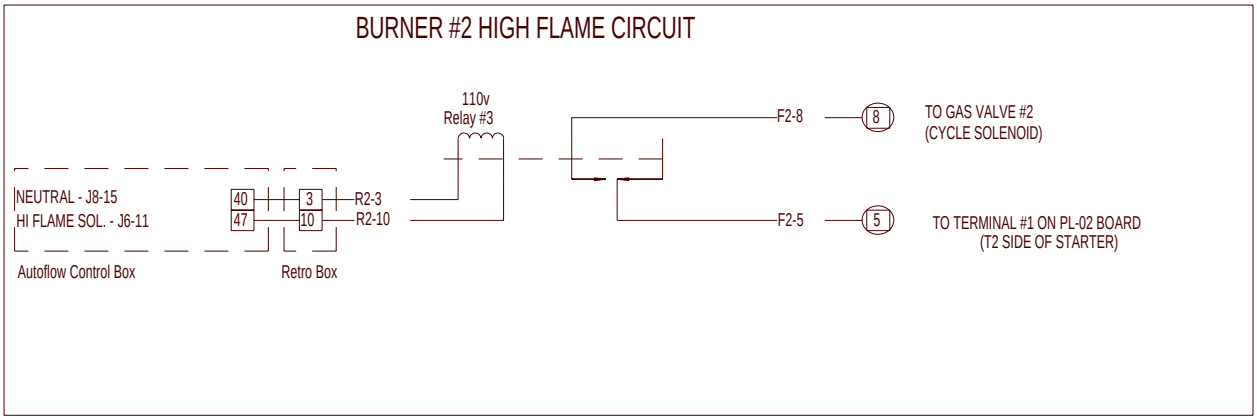


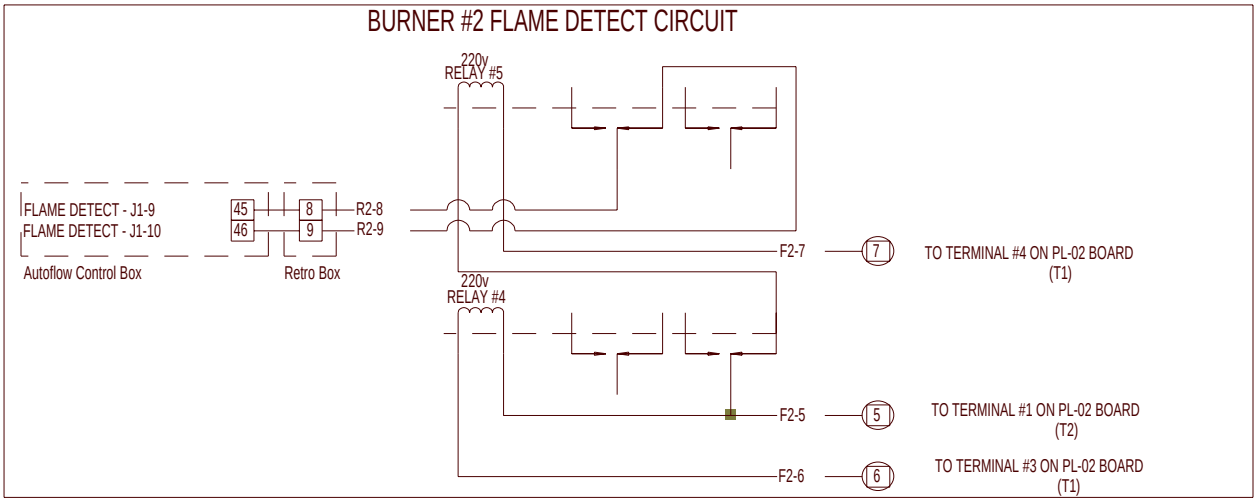


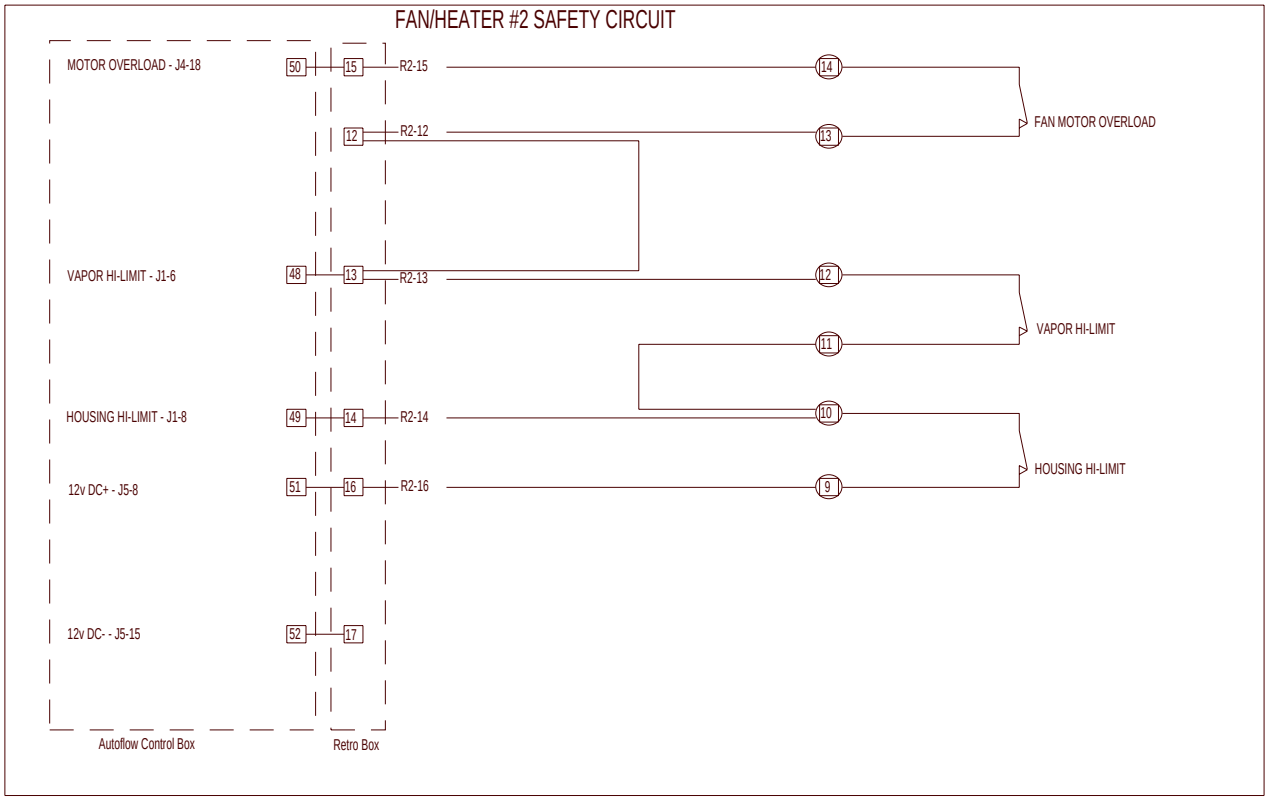




Pre-1997 Farm Fans Conversion-Schematics

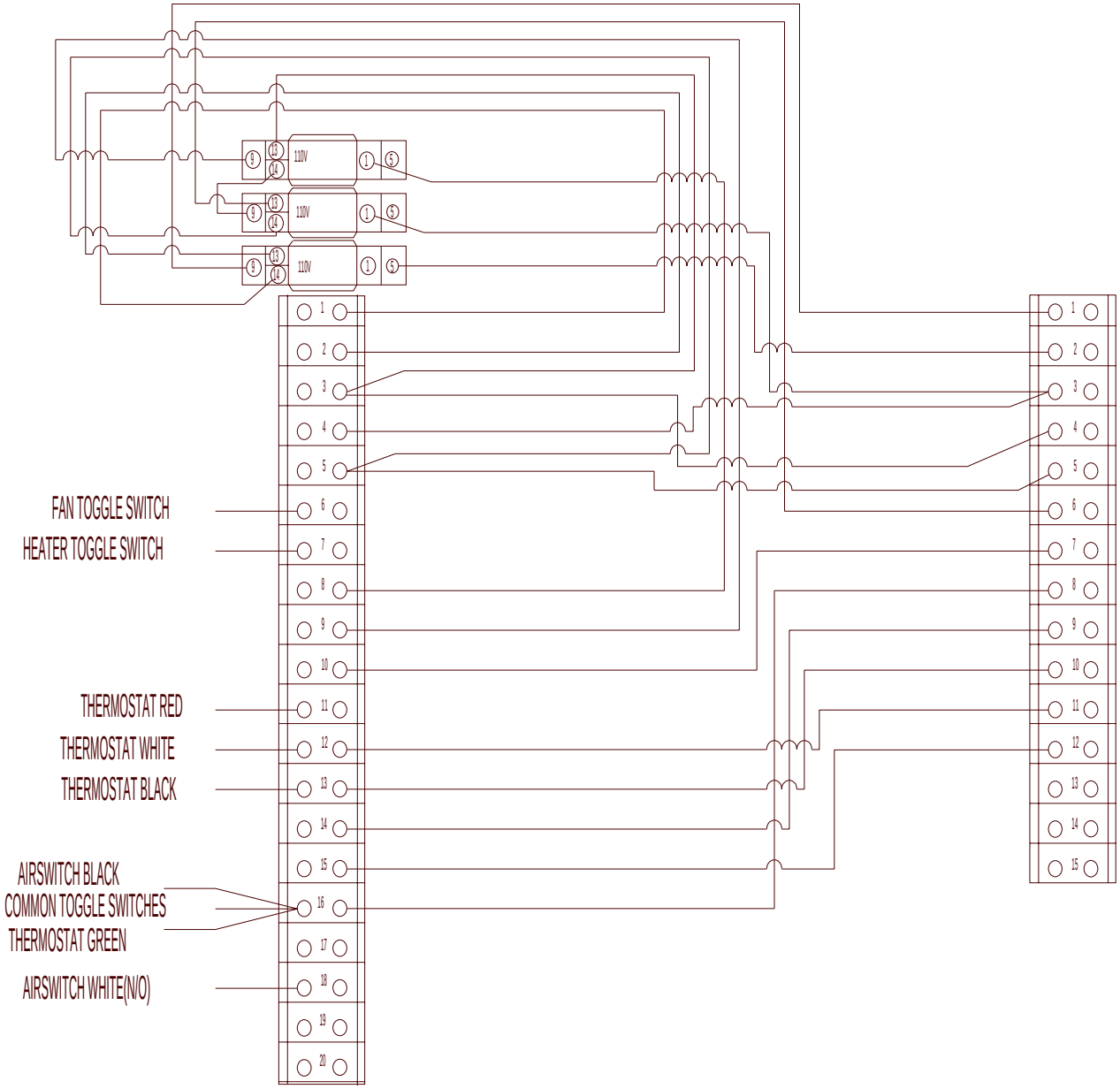




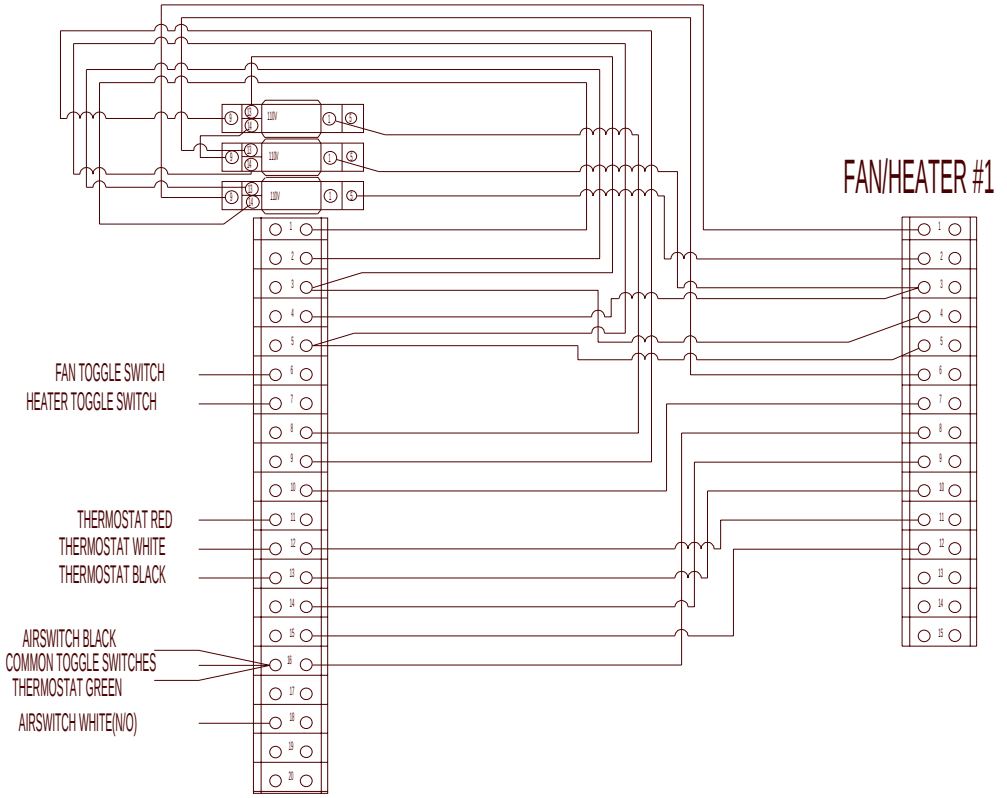


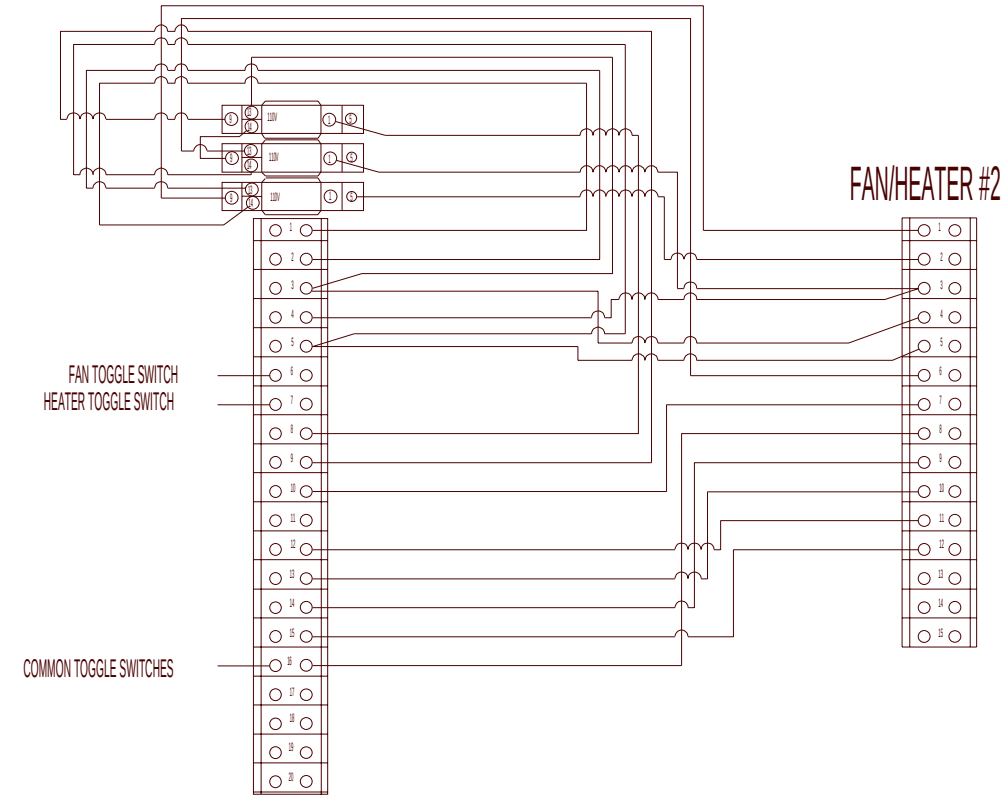
Pre-1997 GSI Fan/Heater Autoflow Conversion

Pre-1997 GSI Conversion-One Fan Wiring

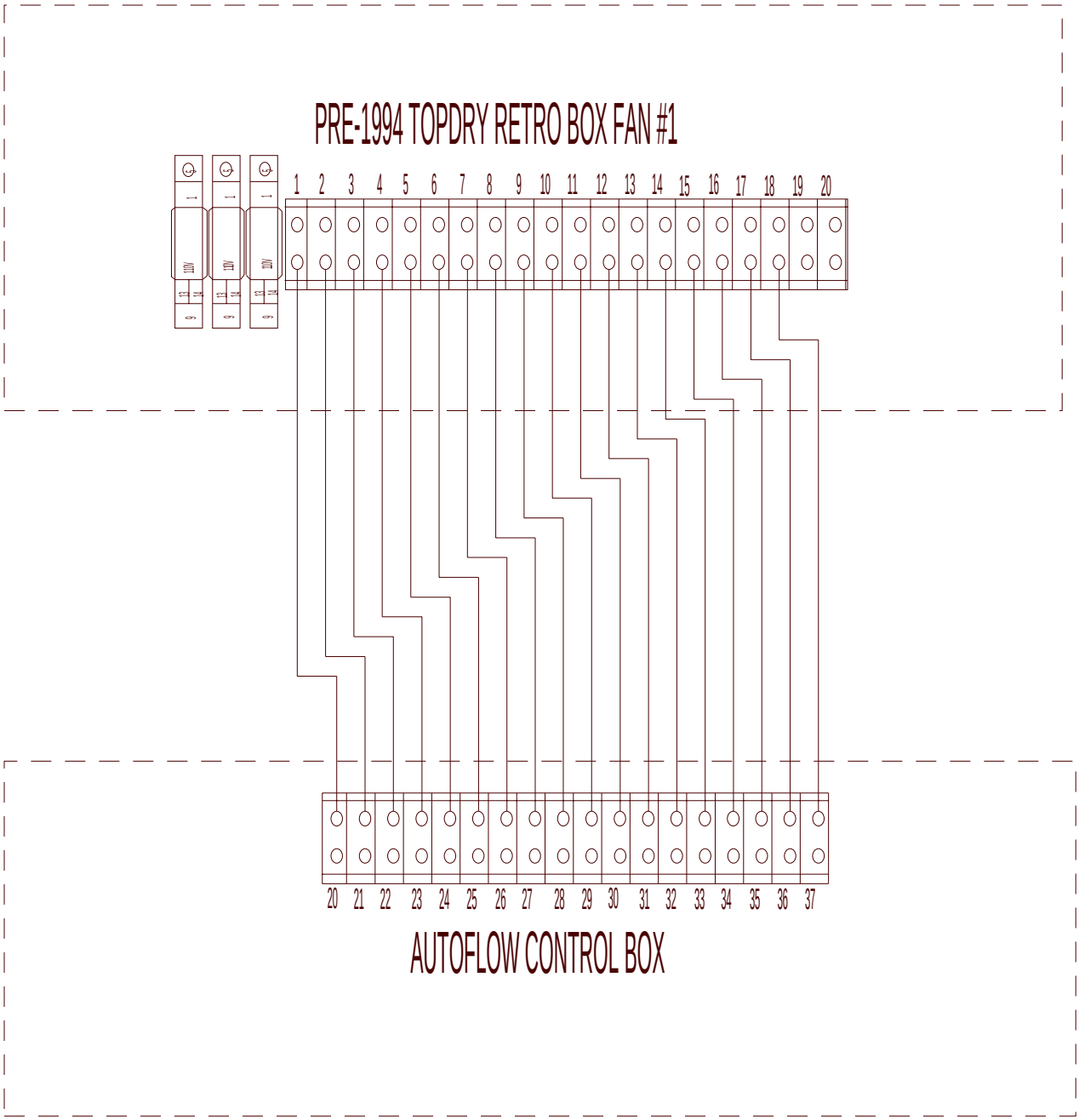


Pre-1997 GSI Conversion-Two Fan Wiring

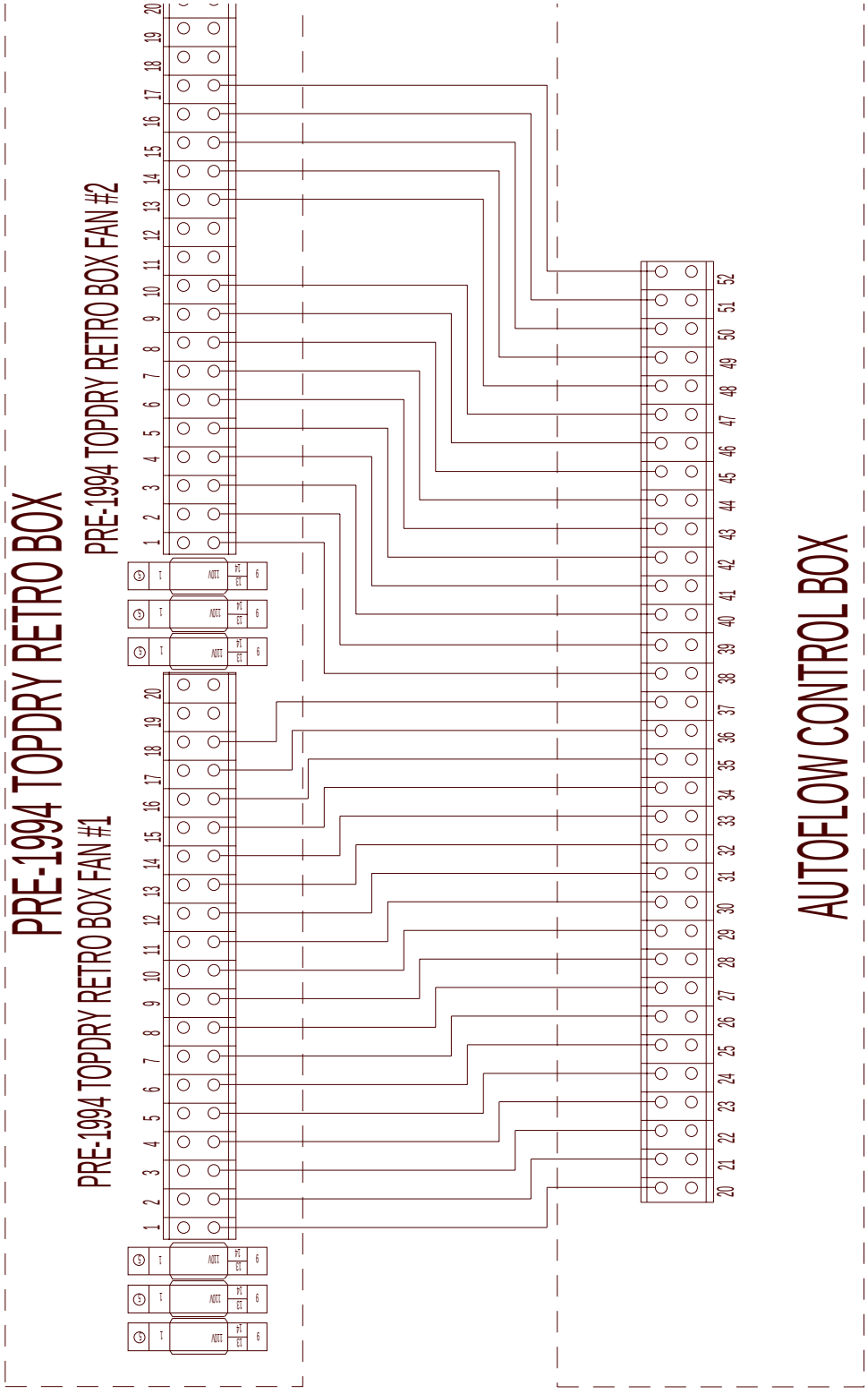




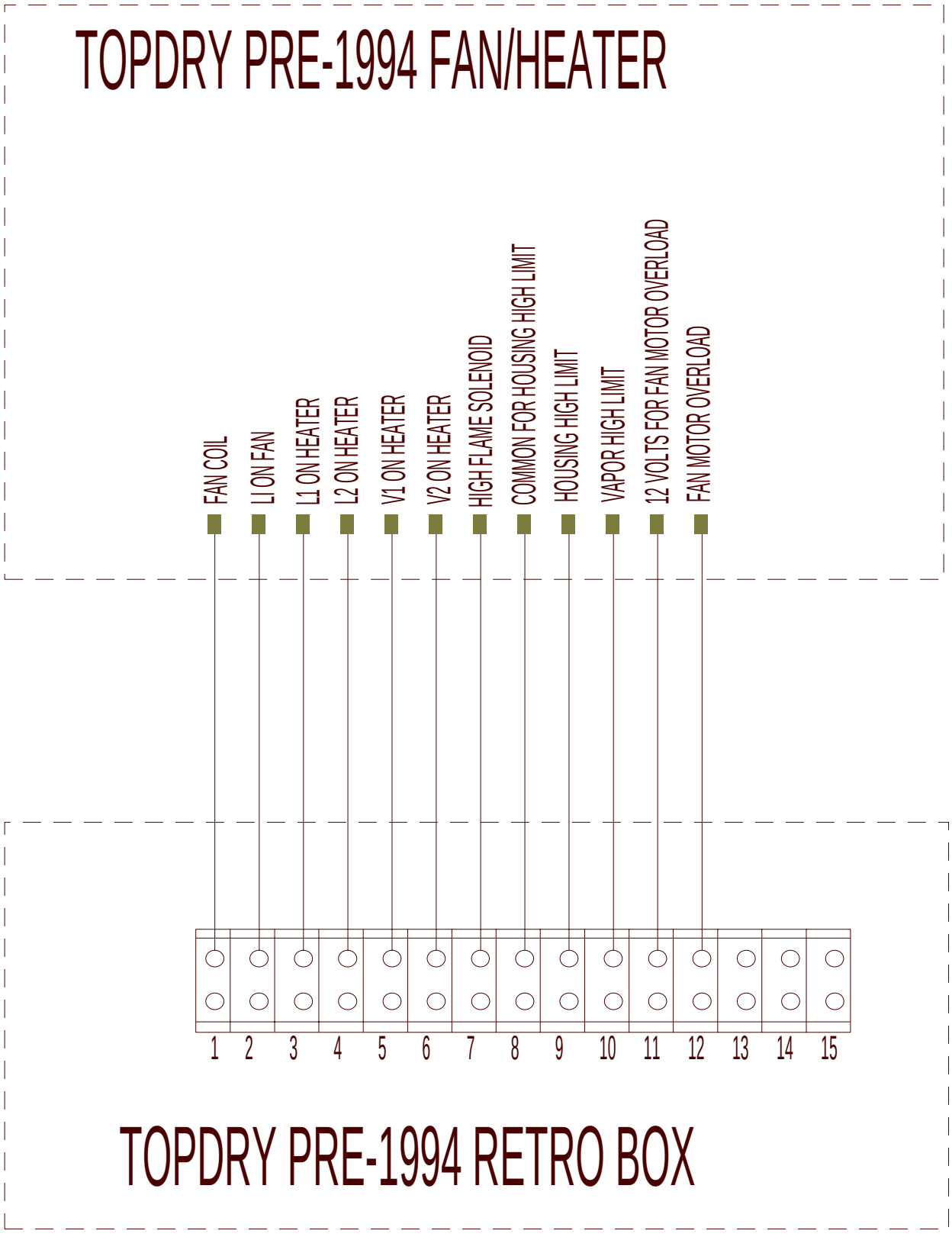
Pre-1997 GSI Conversion-Autoflow Control Box to Conversion Box Interconnect



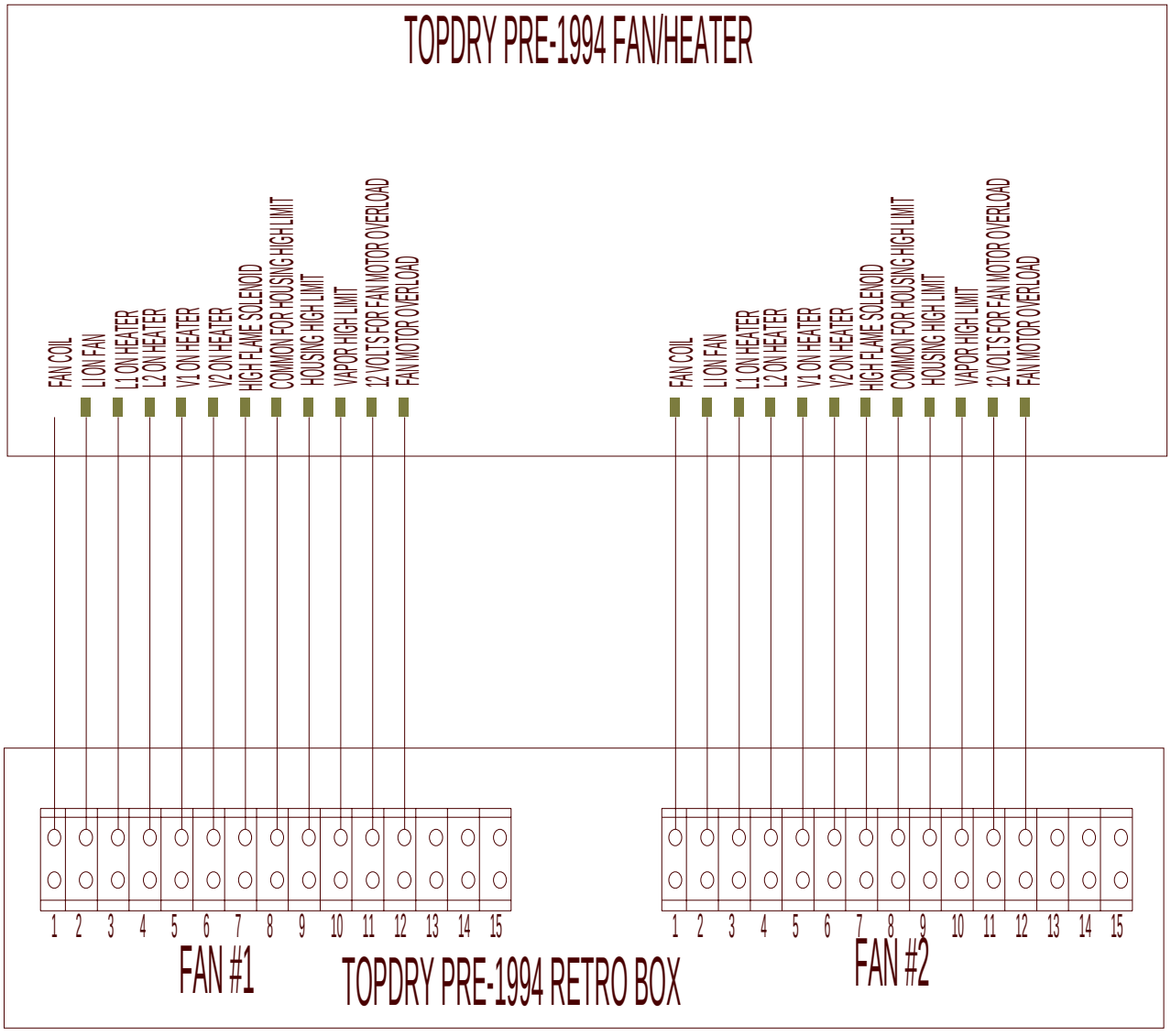
Pre-1997 GSI Conversion-Autoflow Control Box to Conversion Box Interconnect Two Fan



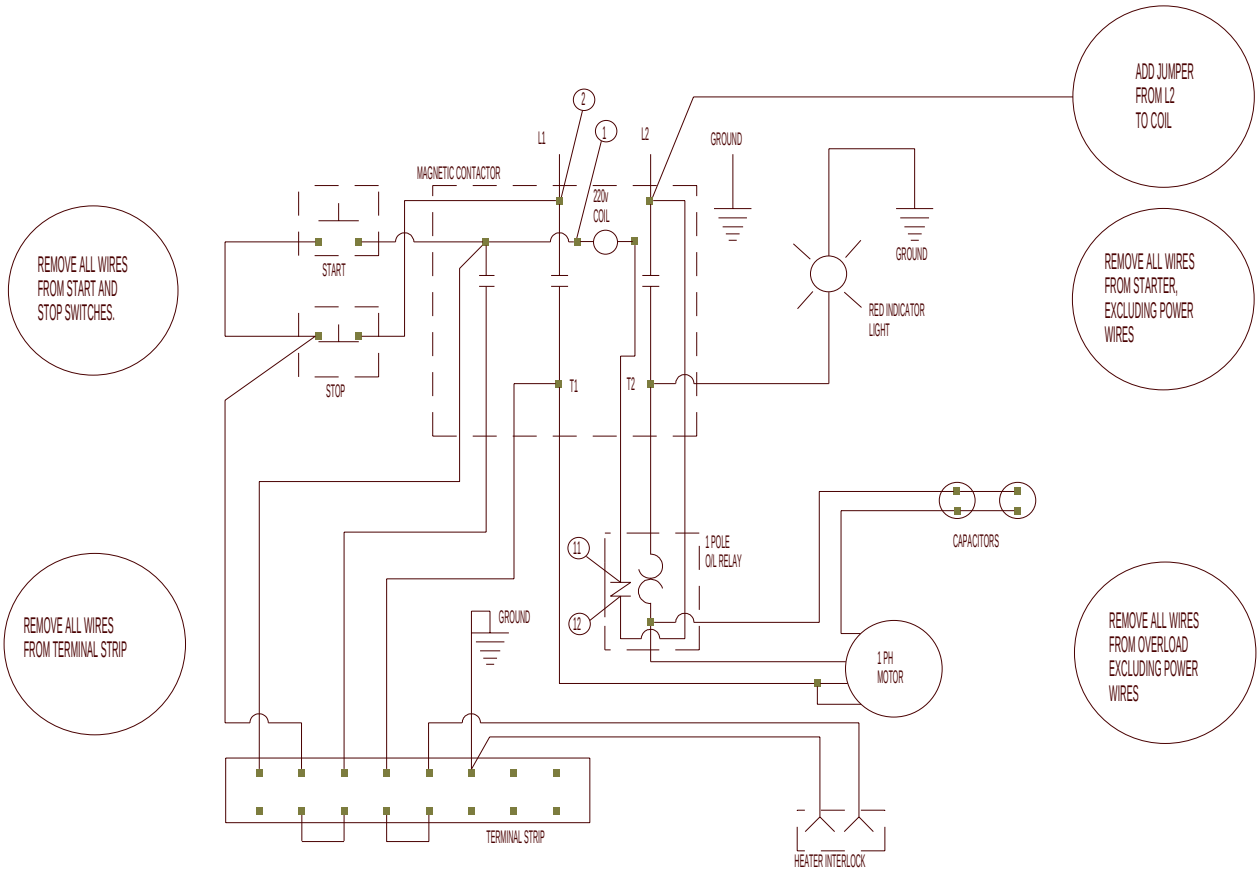
Pre-1997 GSI Conversion-Conversion Box to Fan/Heater Interconnect One Fan



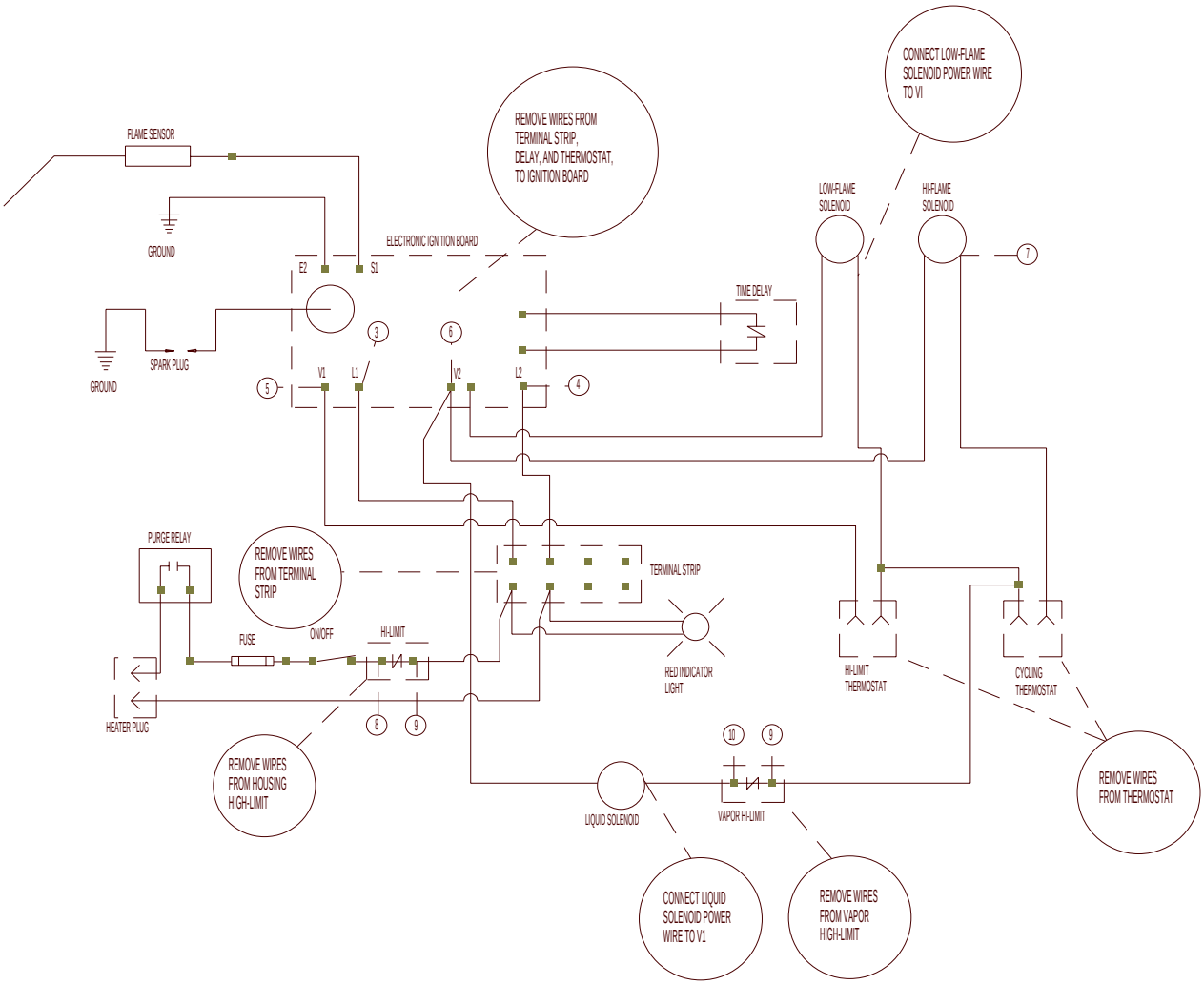
Pre-1997 GSI Conversion-Conversion Box to Fan/Heater Interconnect Two Fan



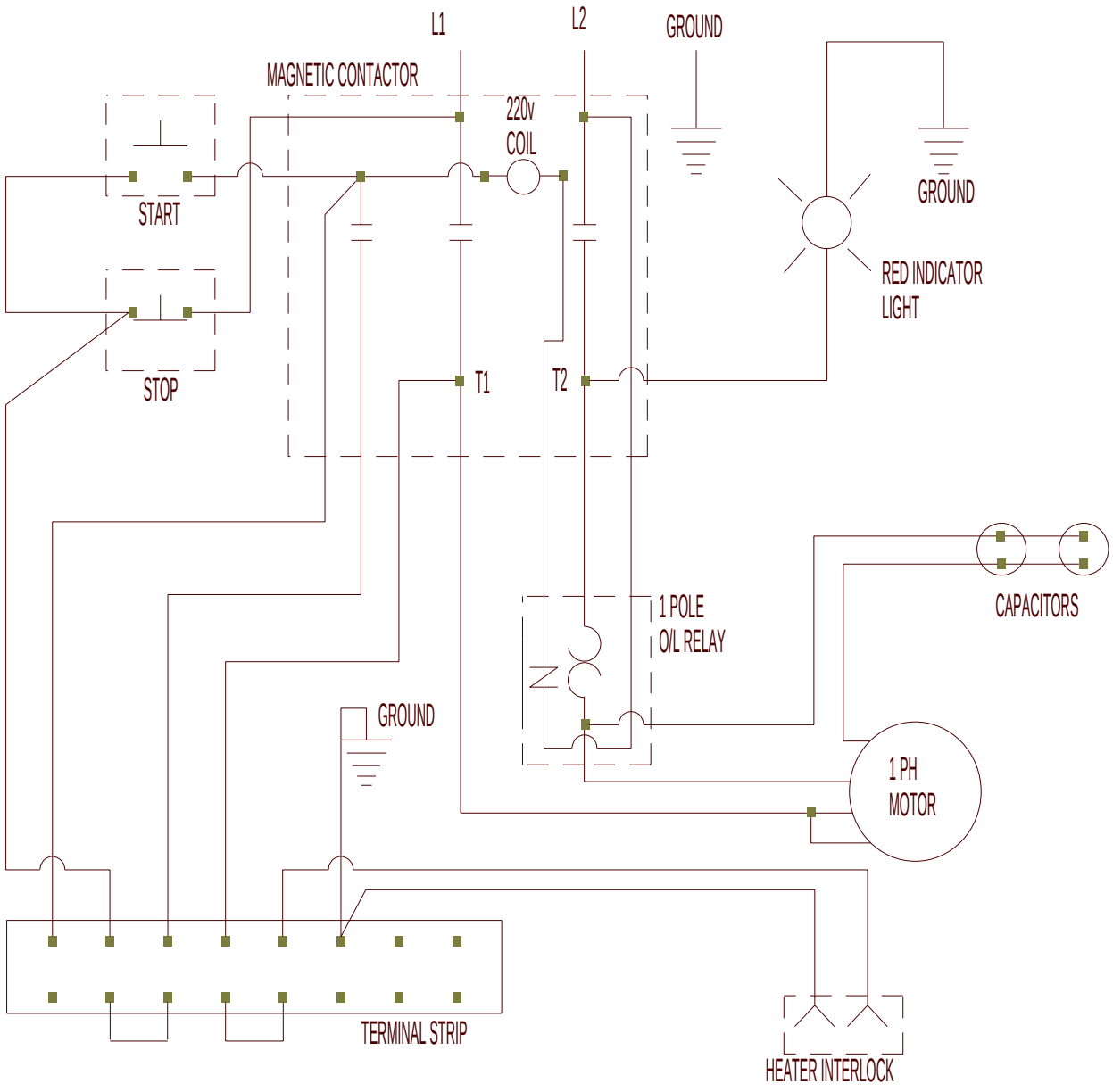
Pre-1997 GSI Conversion-Fan Interconnect



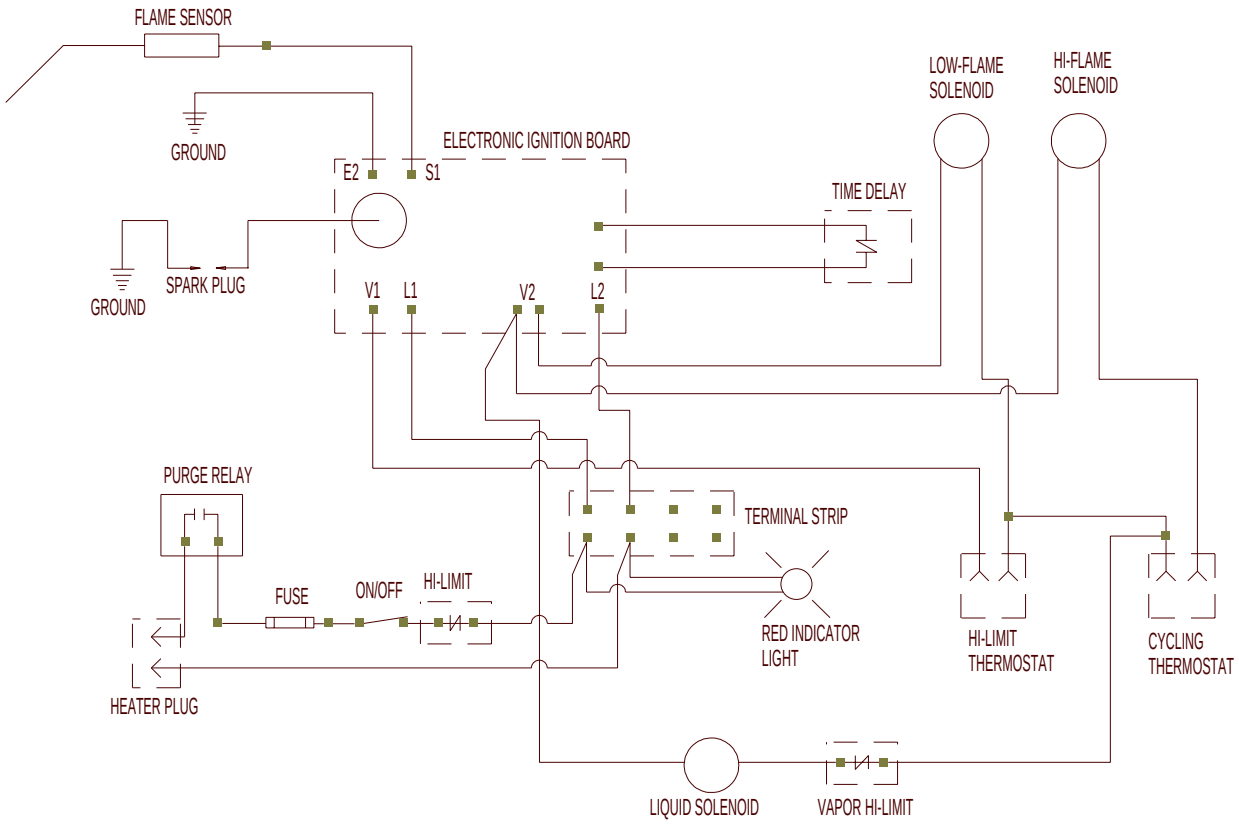
Pre-1997 GSI Conversion-Heater Interconnect



Pre-1997 GSI Conversion-Fan Schematic

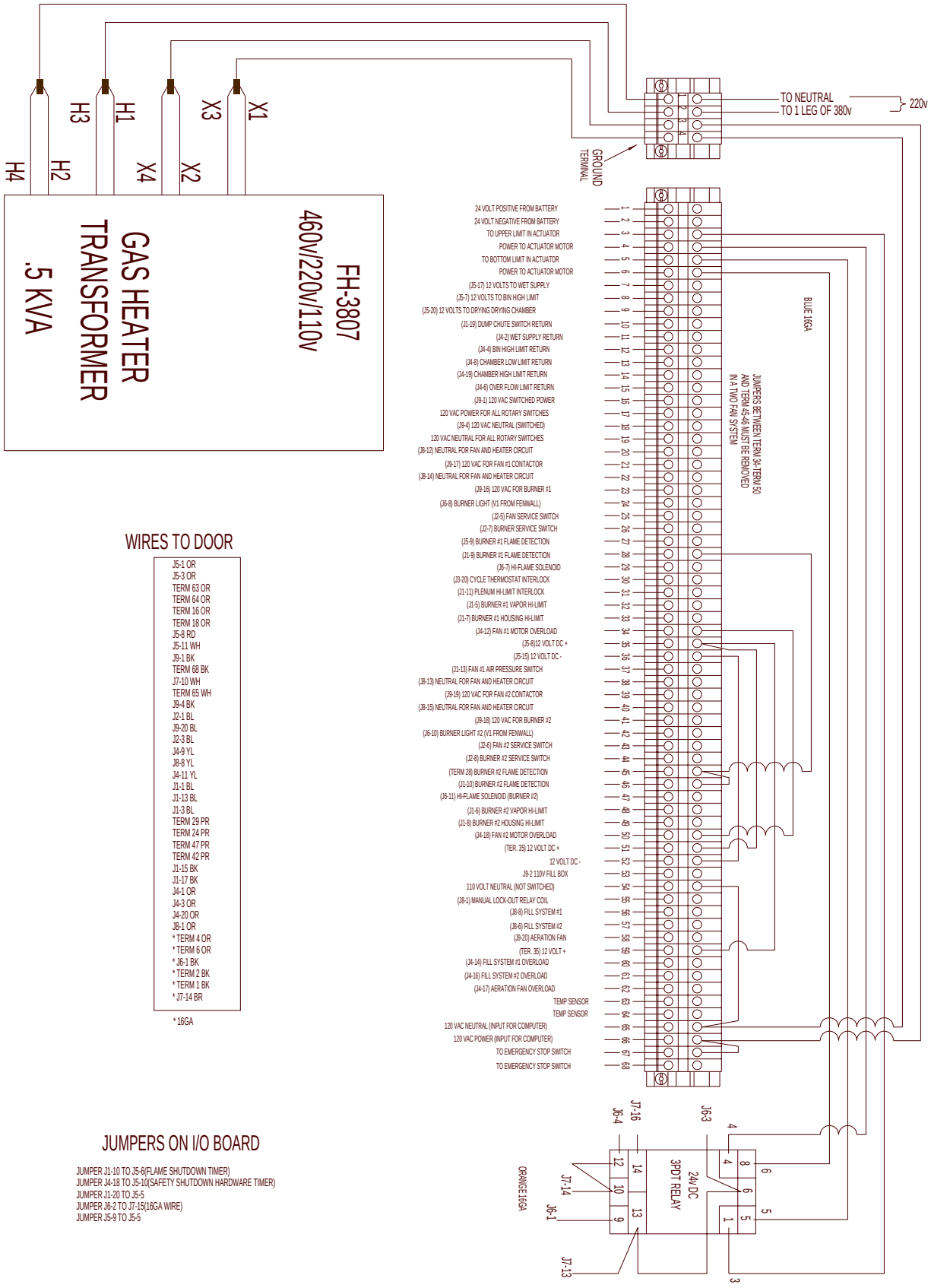


Pre-1997 GSI Conversion-Heater Schematic



Pre-1997 Autoflow Wiring

Pre-1997 Autoflow-380v Terminal Strip



Pre-1997 Autoflow-Terminal Strip

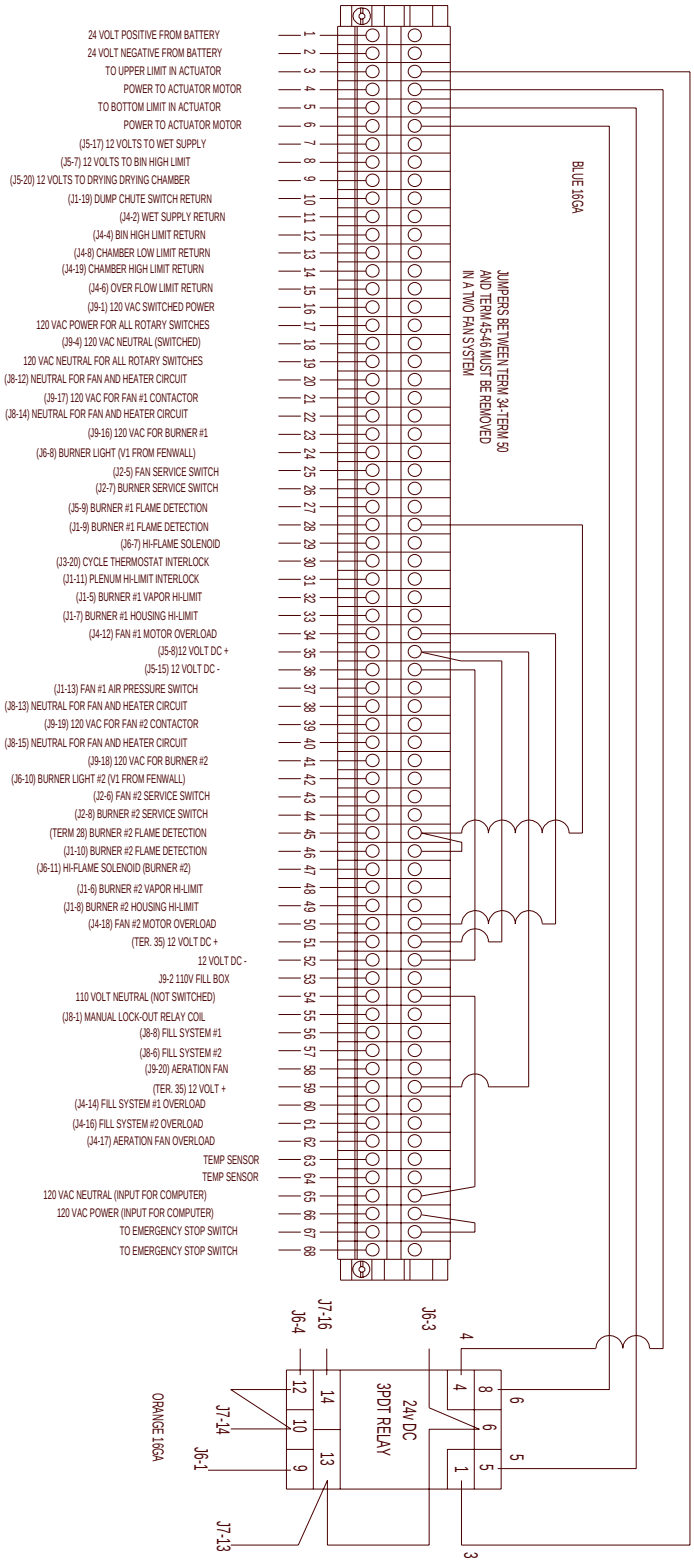
WIRES TO DOOR

J5-1 OR
J5-3 OR
TERM 63 OR
TERM 64 OR
TERM 16 OR
TERM 18 OR
J5-8 RD
J5-11 WH
J9-1 BK
TERM 68 BK
J7-10 WH
TERM 65 WH
J9-4 BK
J2-1 BL
J9-20 BL
J2-3 BL
J4-9 YL
J8-8 YL
J4-11 YL
J1-1 BL
J1-13 BL
J1-3 BL
TERM 29 PR
TERM 24 PR
TERM 47 PR
TERM 42 PR
J1-15 BK
J1-17 BK
J4-1 OR
J4-3 OR
J4-20 OR
J8-1 OR
* TERM 4 OR
* TERM 6 OR
* J6-1 BK
* TERM 2 BK
* TERM 1 BK
* J7-14 BR

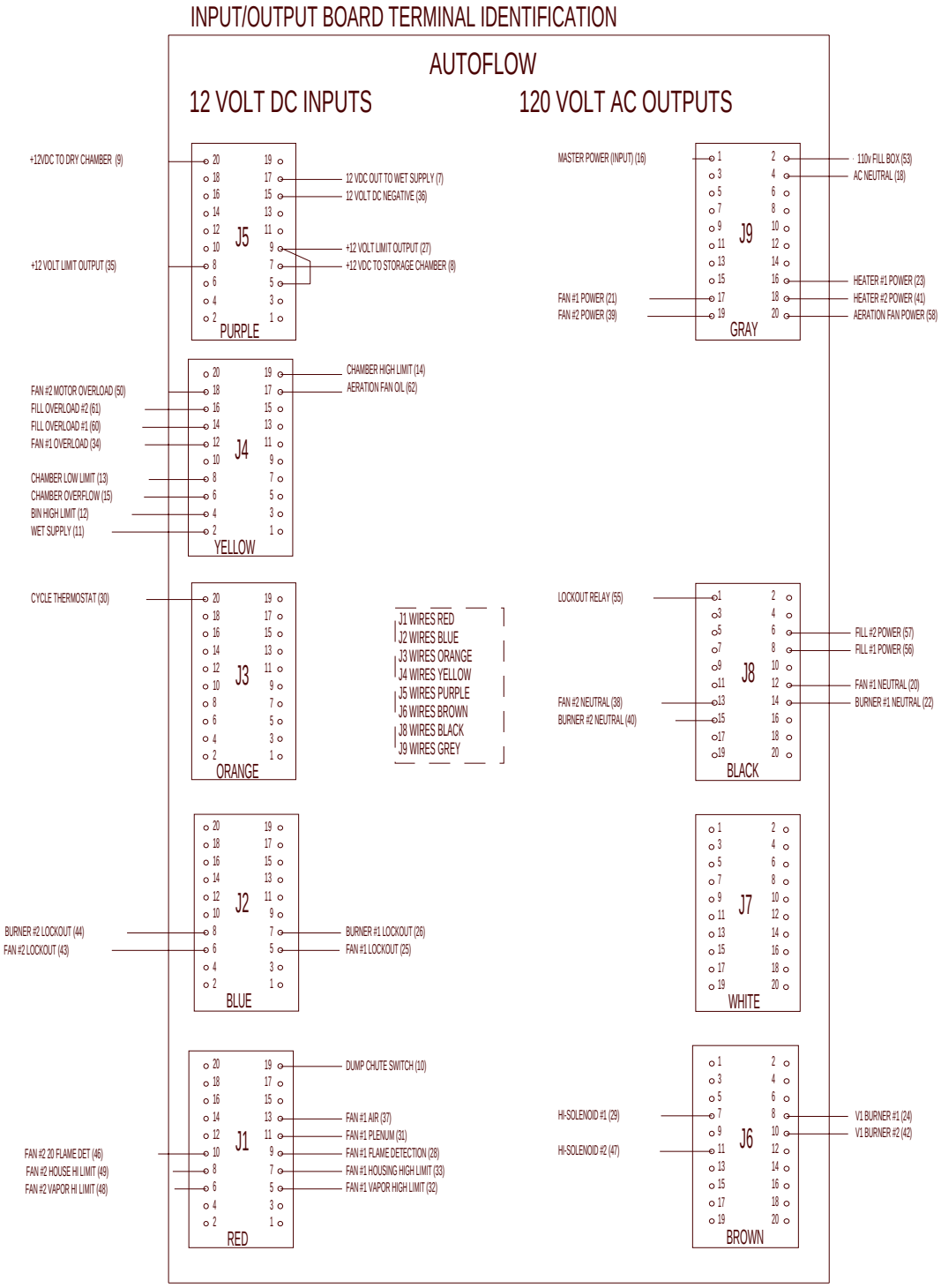
* 16GA

JUMPERS ON I/O BOARD

JUMPER J1-10 TO J5-6(FLAME SHUTDOWN TIMER)
JUMPER J4-18 TO J5-10(SAFETY SHUTDOWN HARDWARE TIMER)
JUMPER J1-20 TO J5-5
JUMPER J6-2 TO J7-15(16GA WIRE)
JUMPER J5-9 TO J5-5



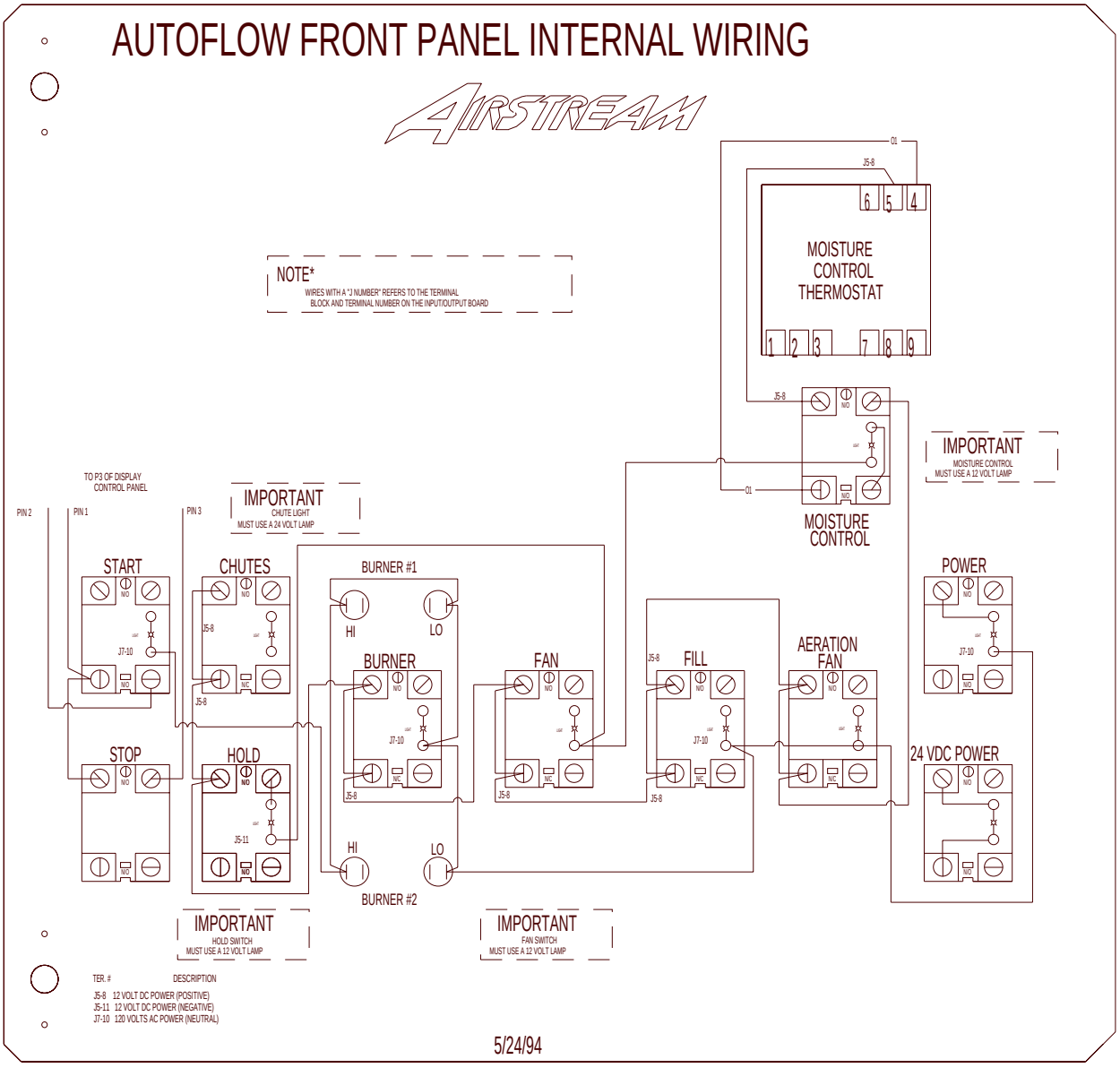
Pre-1997 Autoflow-Input/Output Board



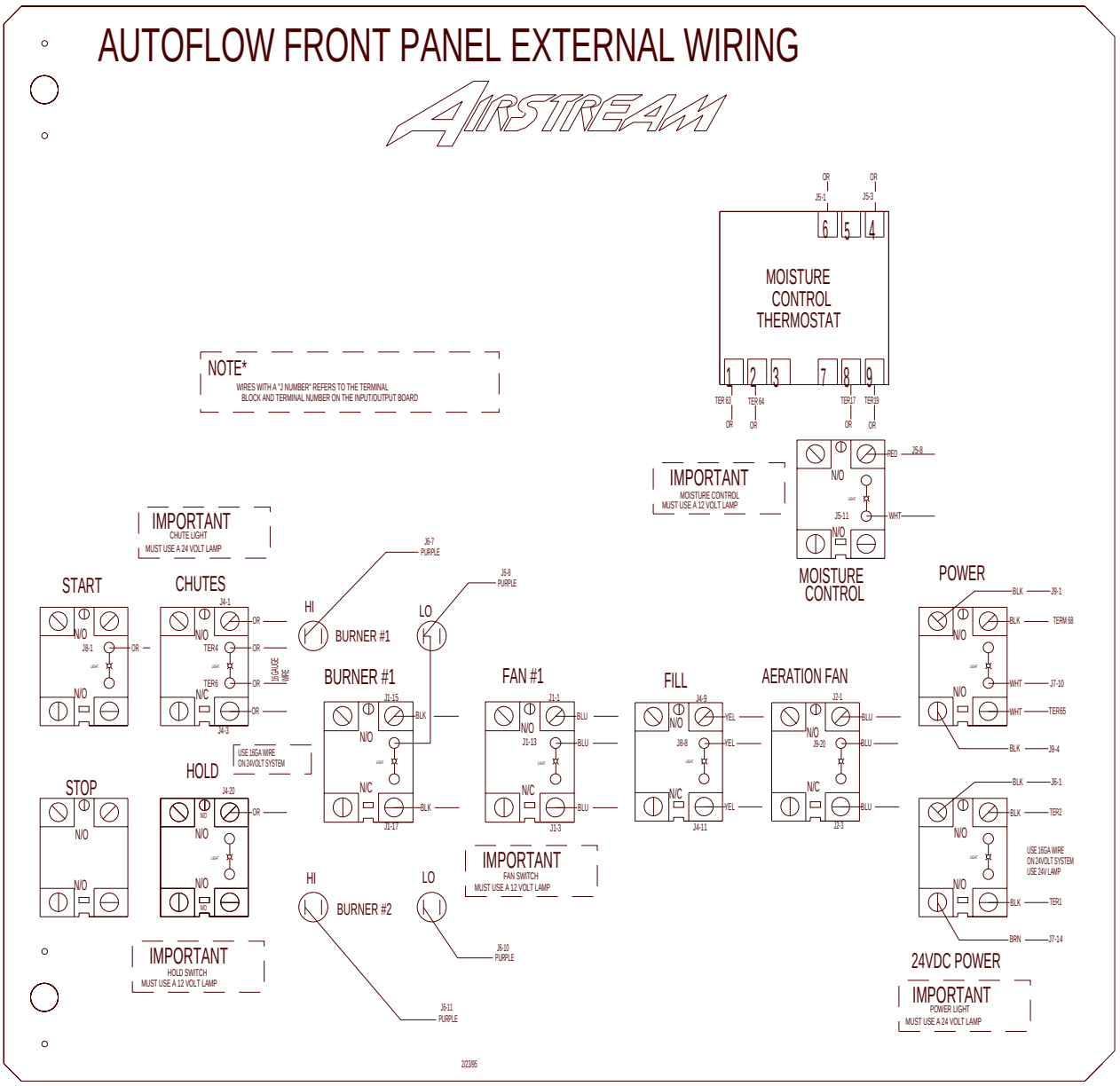
JUMPER TER.#18 TO TER.#19 WHITE
JUMPER TER.#28 TO TER.#45 RED
JUMPER TER.#35 TO TER.#51 PURPLE
JUMPER TER.#36 TO TER.#52 PURPLE
JUMPER TER.#45 TO TER.#46 (REMOVE TWO FAN SYS.)
JUMPER TER.#51 TO TER.#59 PURPLE
JUMPER TER.#54 TO TER.#65 WHITE
JUMPER TER.#66 TO TER.#68 BLACK

JUMPER J1-10 TO J5-6 RED
JUMPER J1-20 TO J5-5 RED
JUMPER J4-12 TO J4-18 YELLOW (REMOVE TWO FAN SYS.)
JUMPER J4-18 TO J5-10 YELLOW
JUMPER J5-9 TO J5-5 RED
JUMPER J6-2 TO J7-15 (16GA WIRE) ORANGE
JUMPER TER.#16 TO TER.#17 BLACK

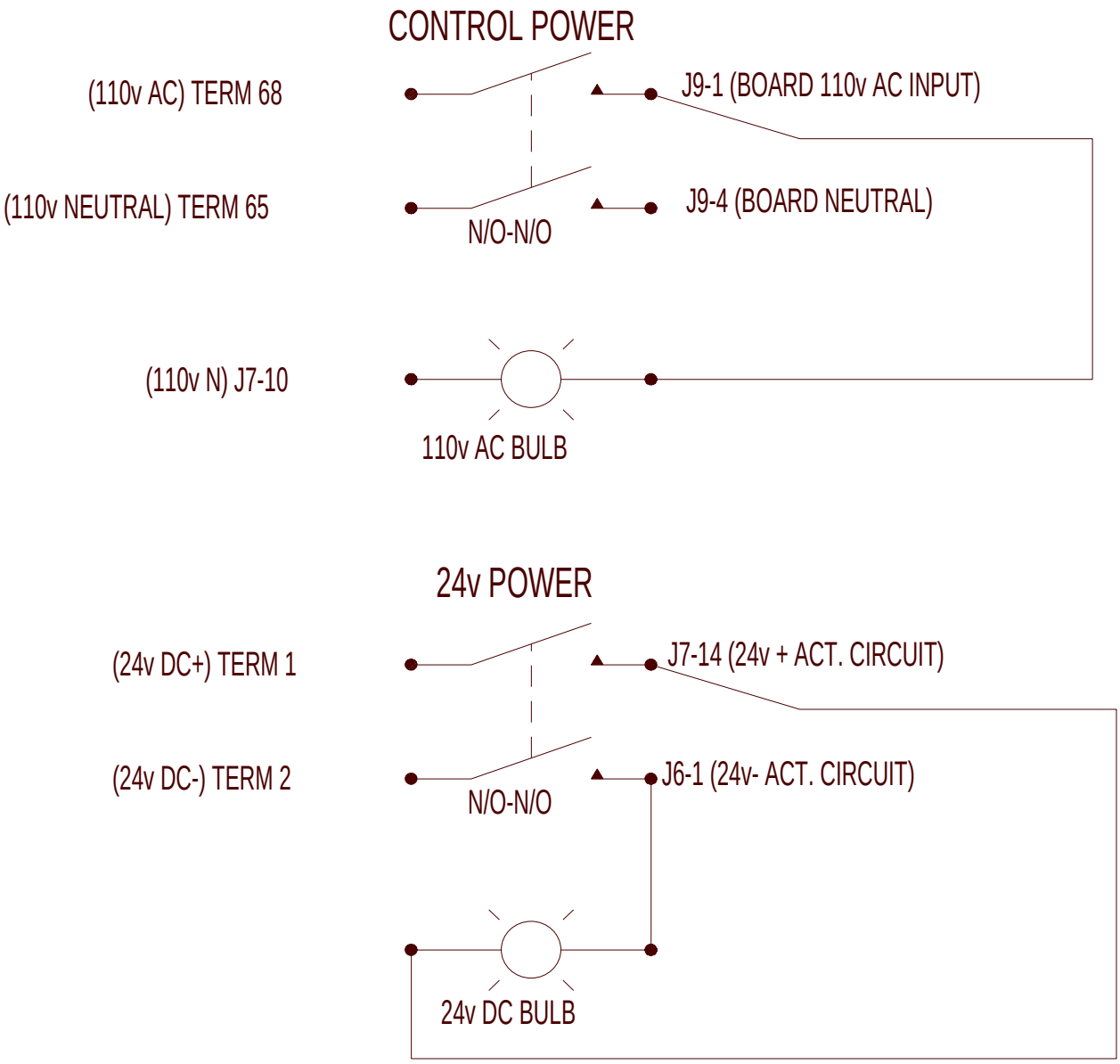
Pre-1997 Autoflow-Front Panel Internal Wiring



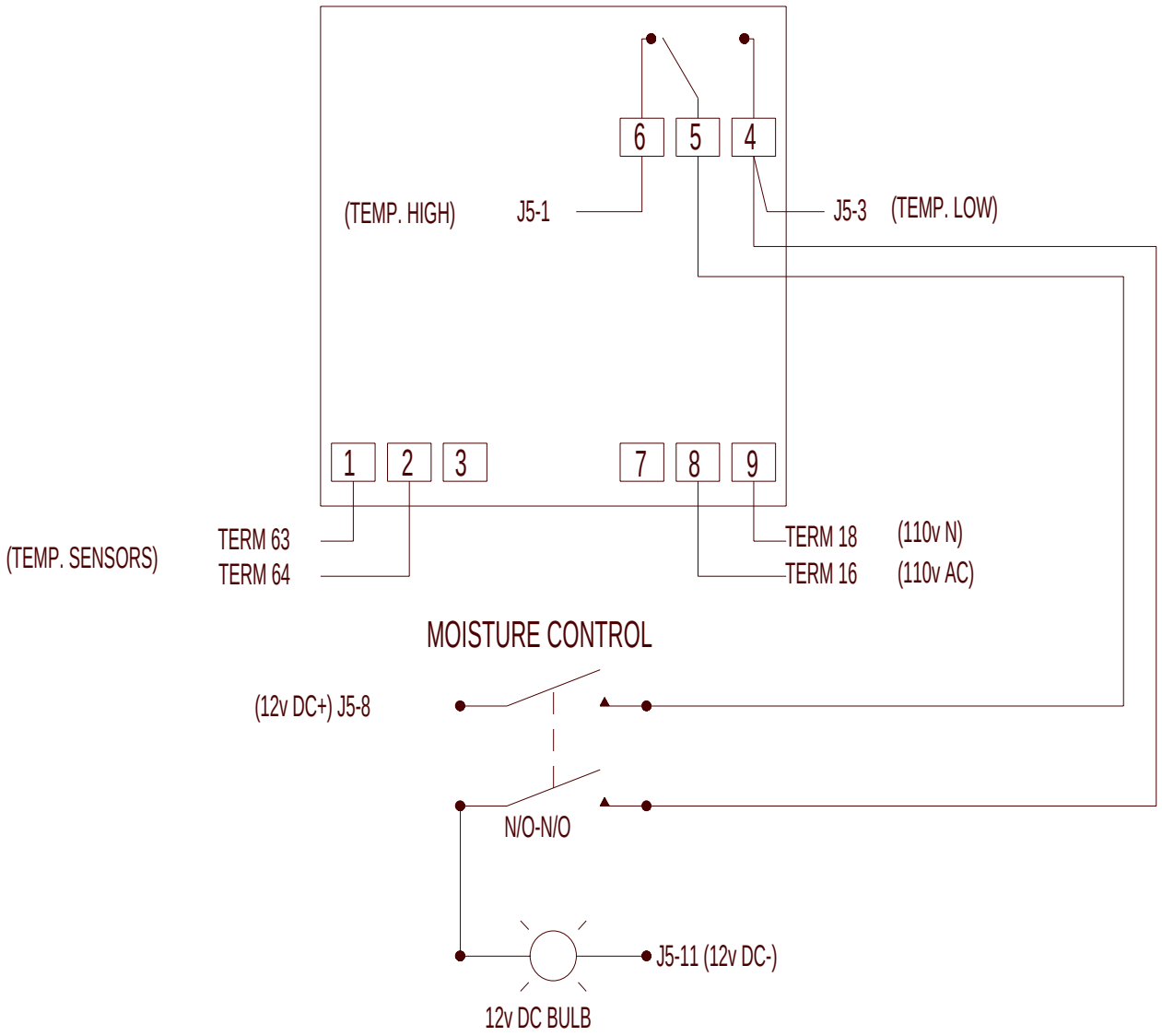
Pre-1997 Autoflow-Front Panel External Wiring



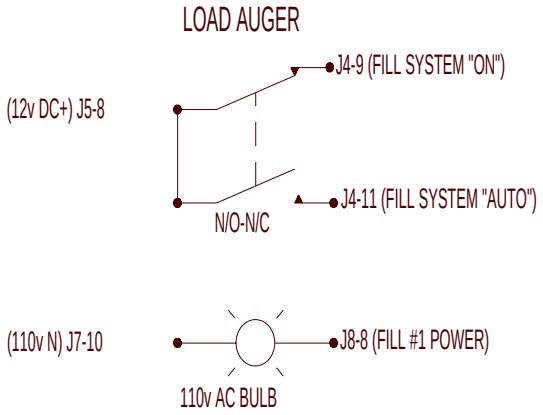
Pre-1997 Autoflow-Front Panel Switch Circuits

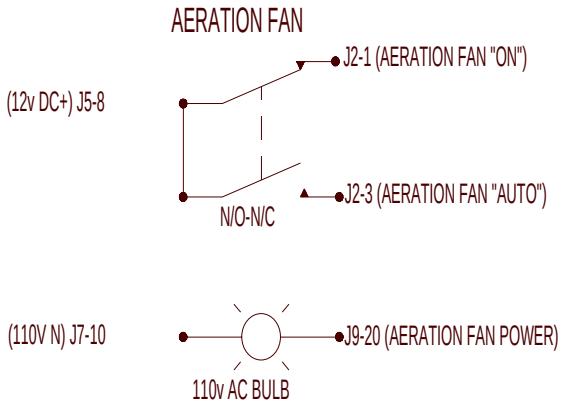


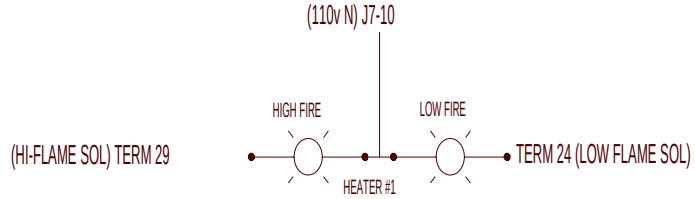
Pre-1997 Autoflow-Front Panel Switch Circuits

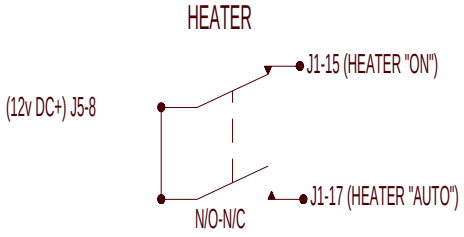


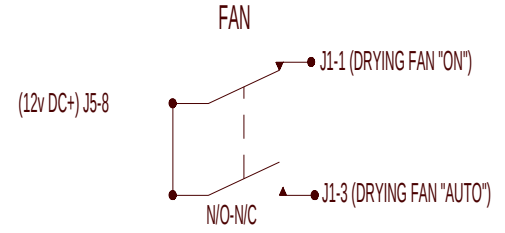
Pre-1997 Autoflow-Front Panel Switch Circuits

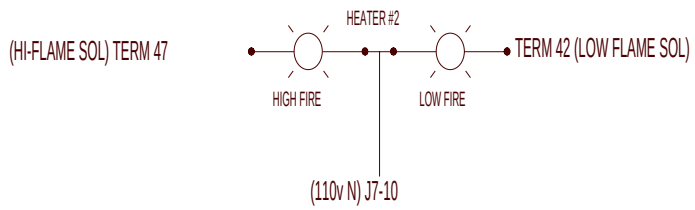




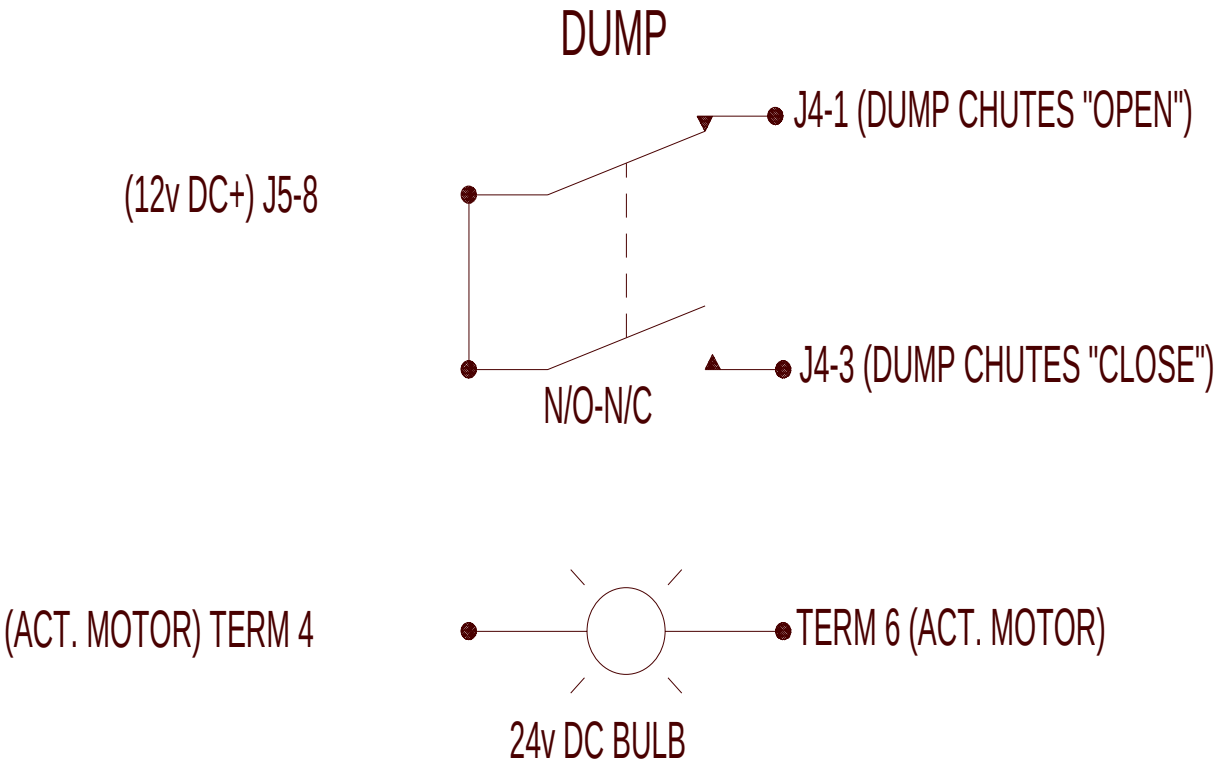


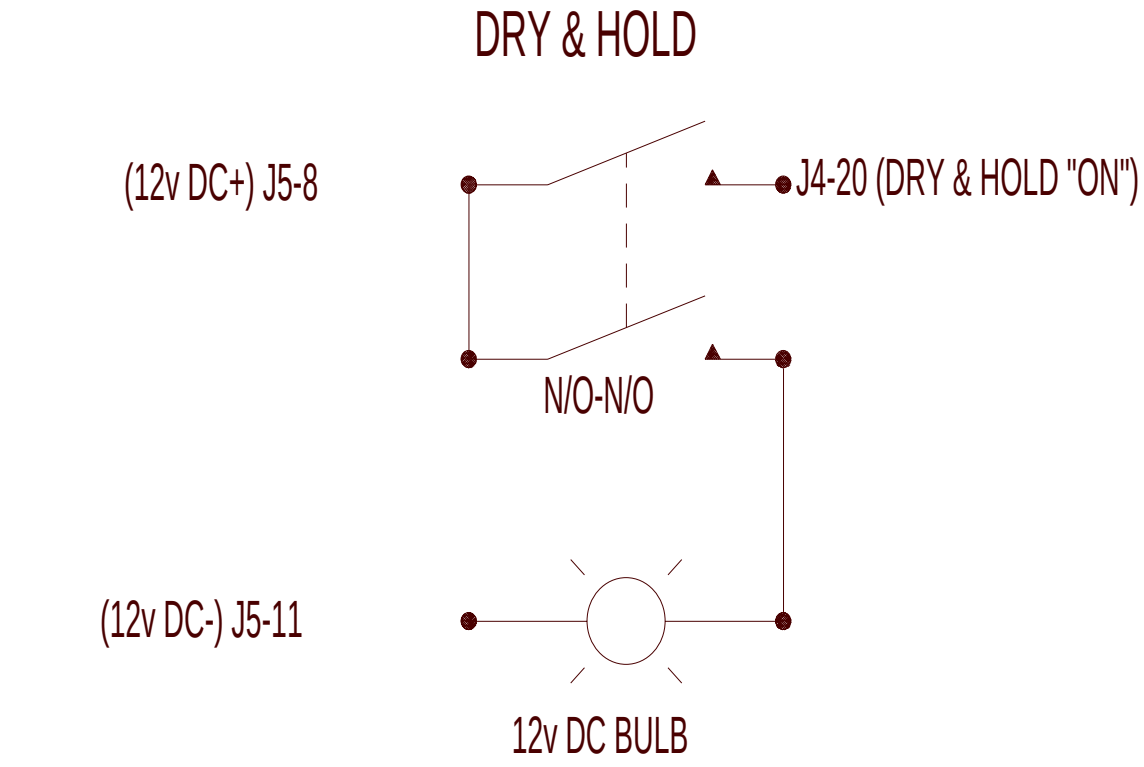




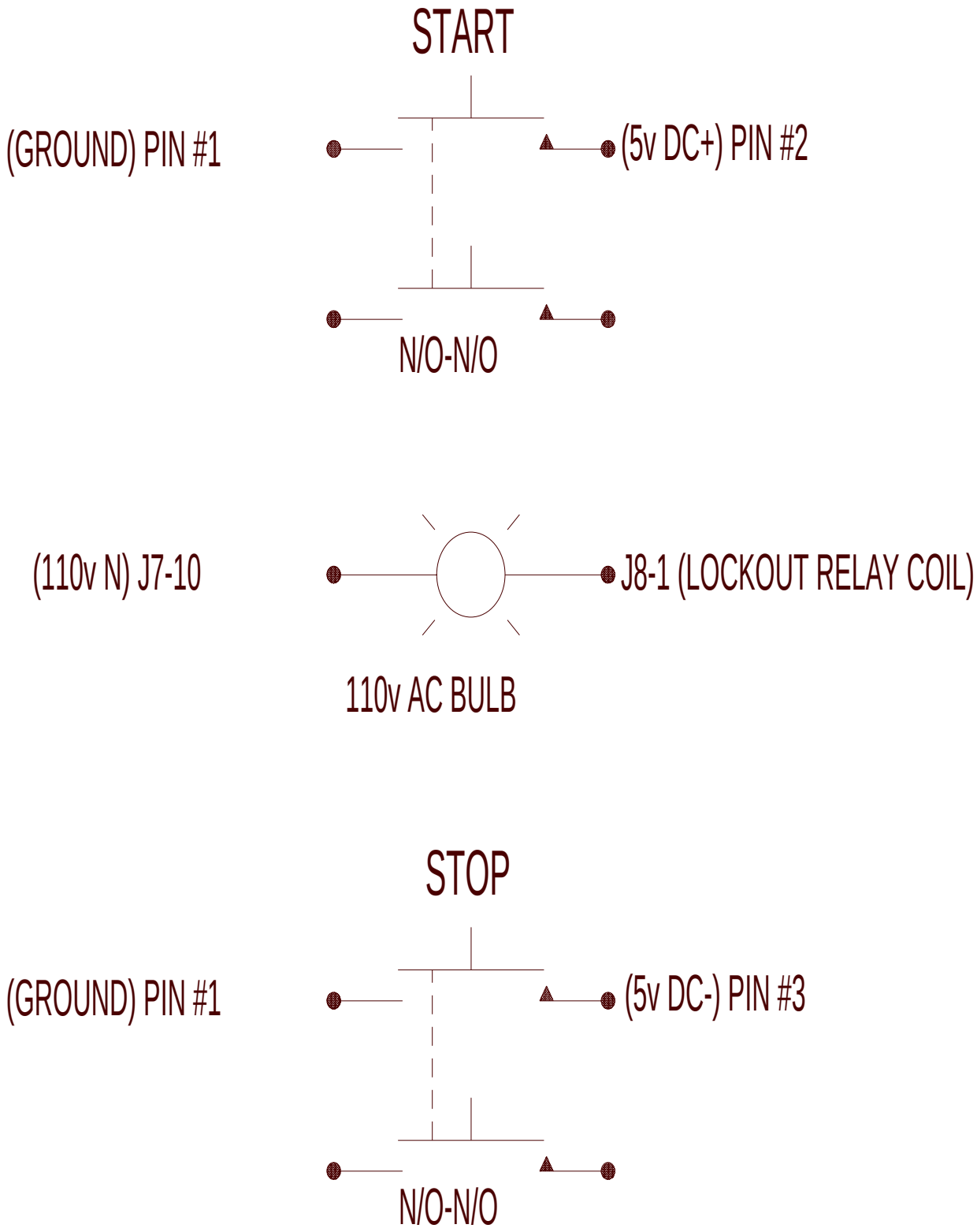


Pre-1997 Autoflow-Front Panel Switch Circuits

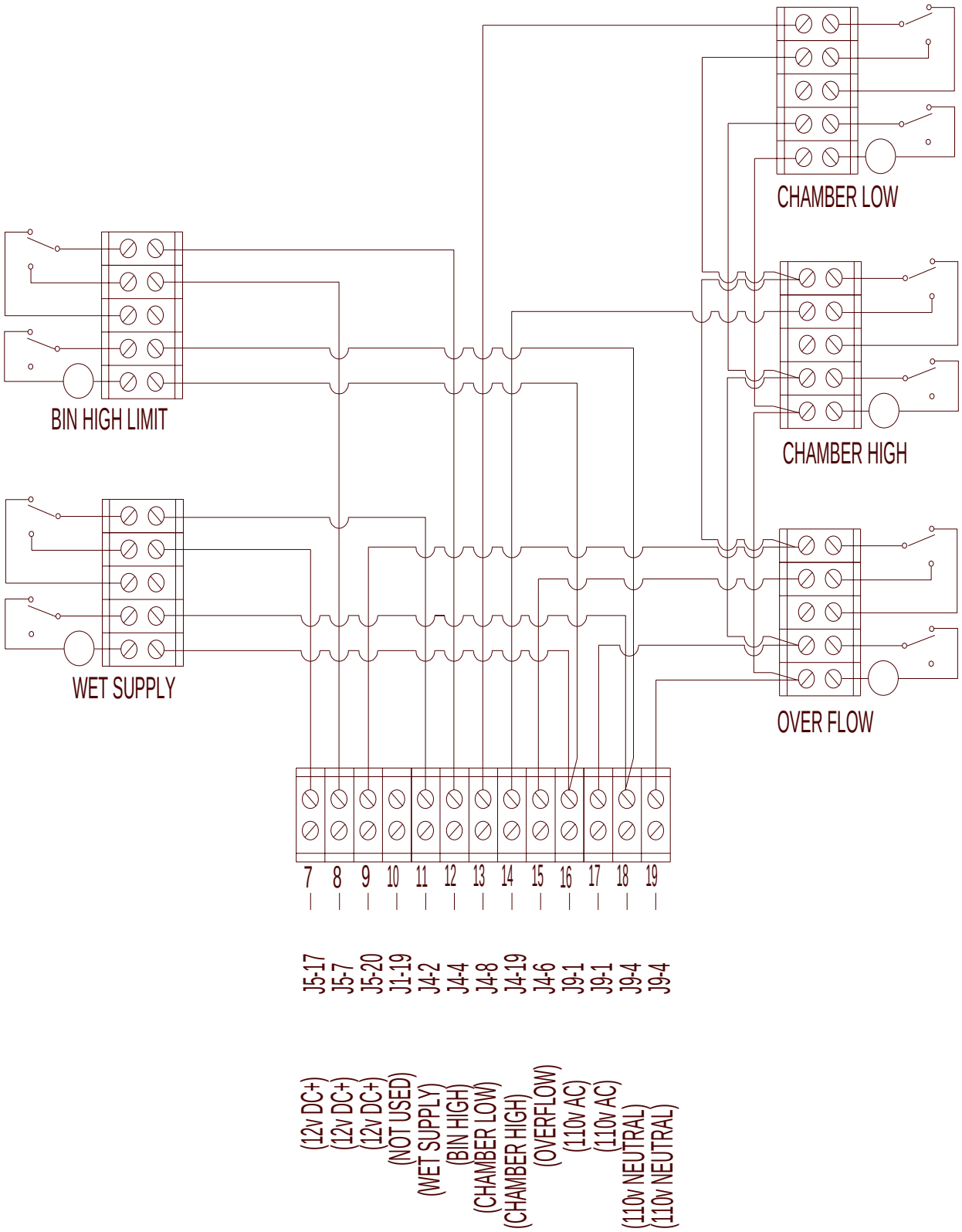




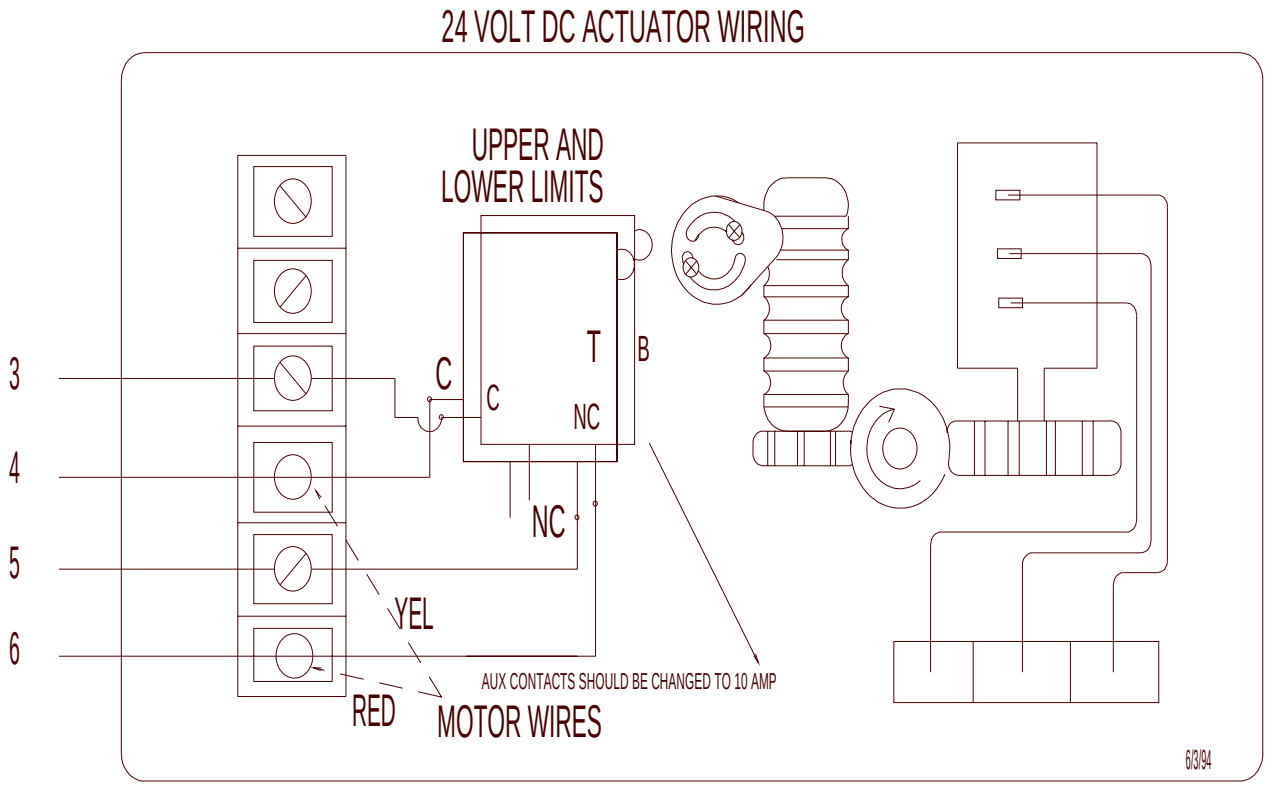
Pre-1997 Autoflow-Front Panel Switch Circuits



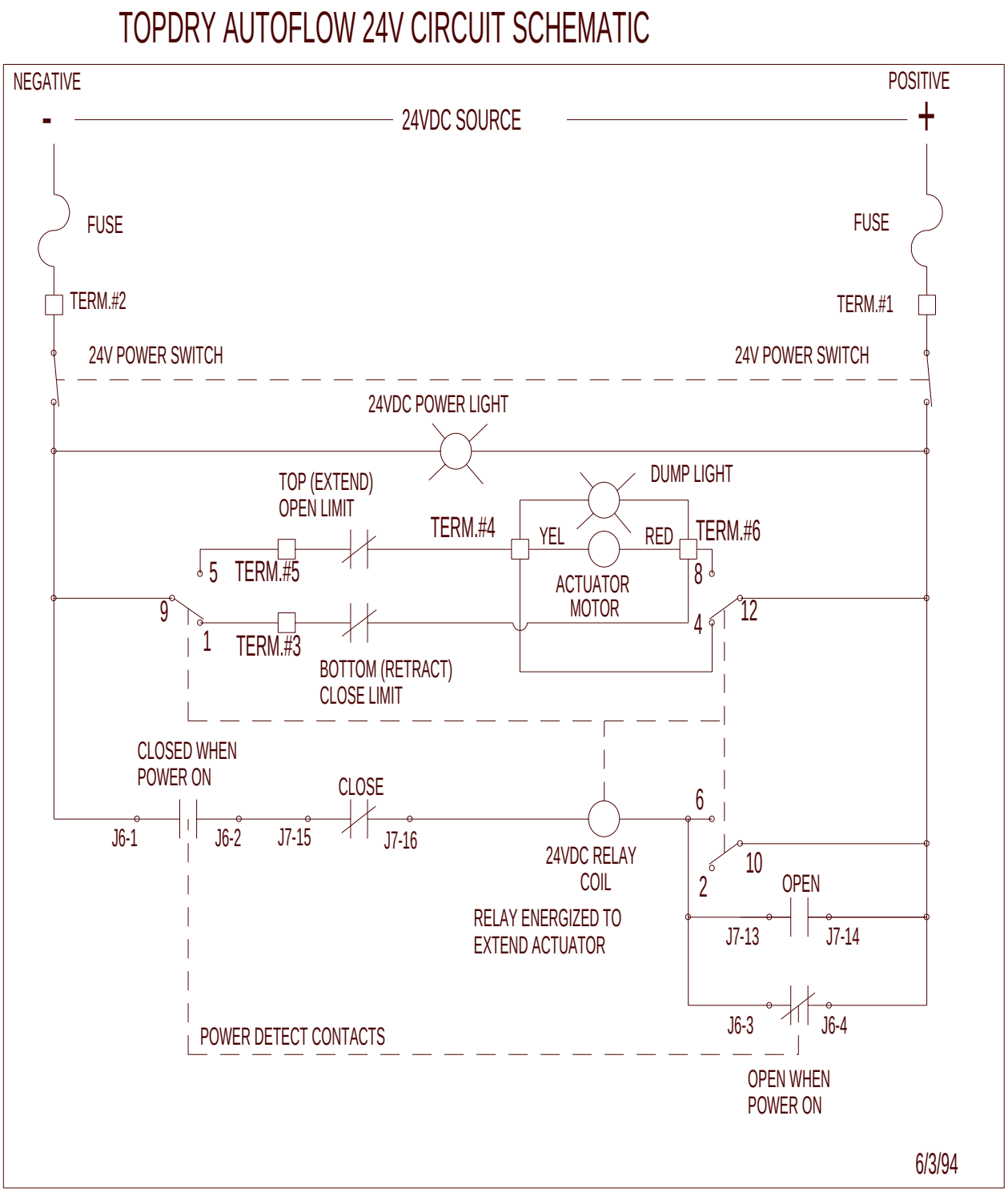
Pre-1997 Autoflow-Rotary Switch Circuits



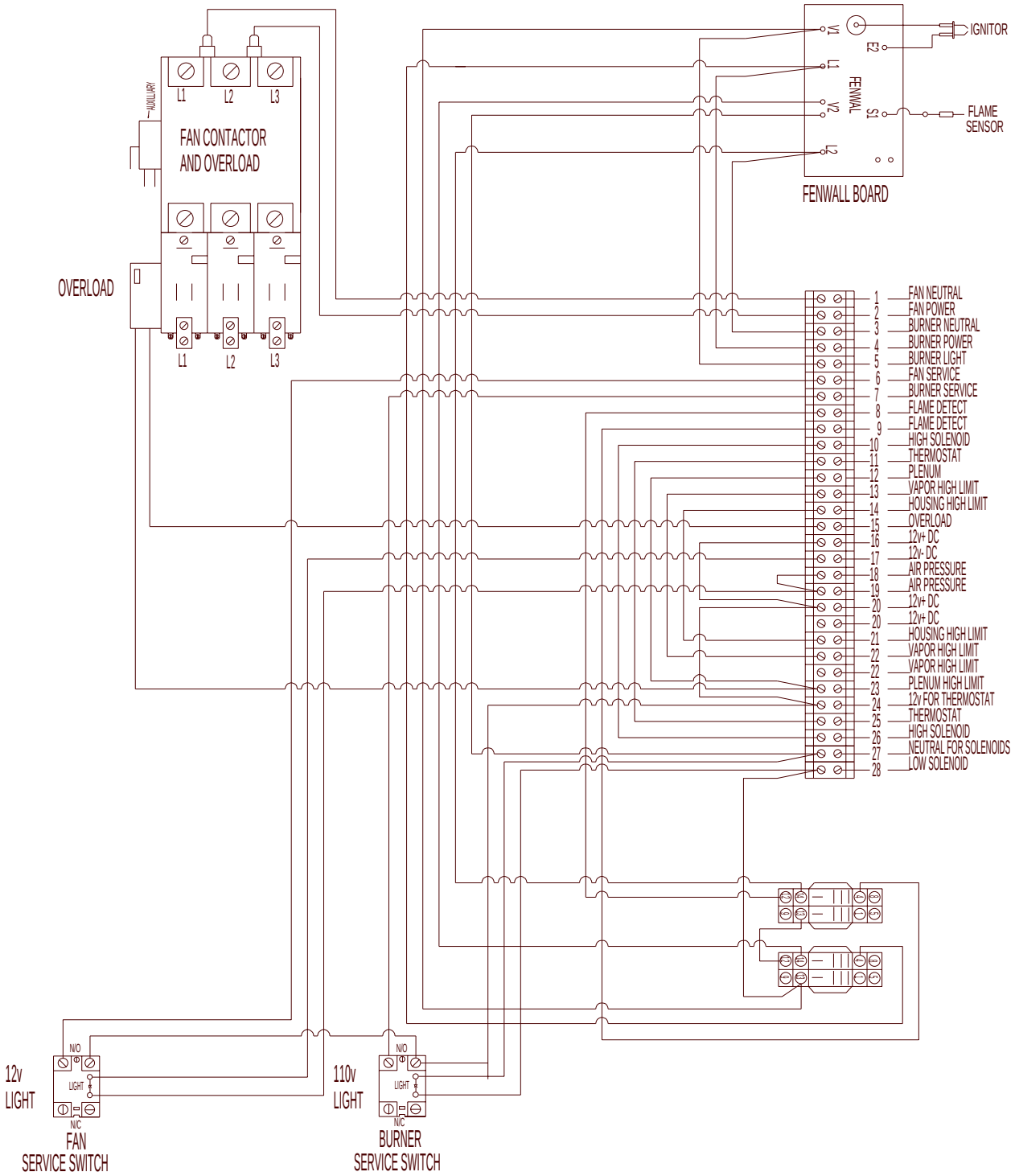
Pre-1997 Autoflow-Actuator Wiring



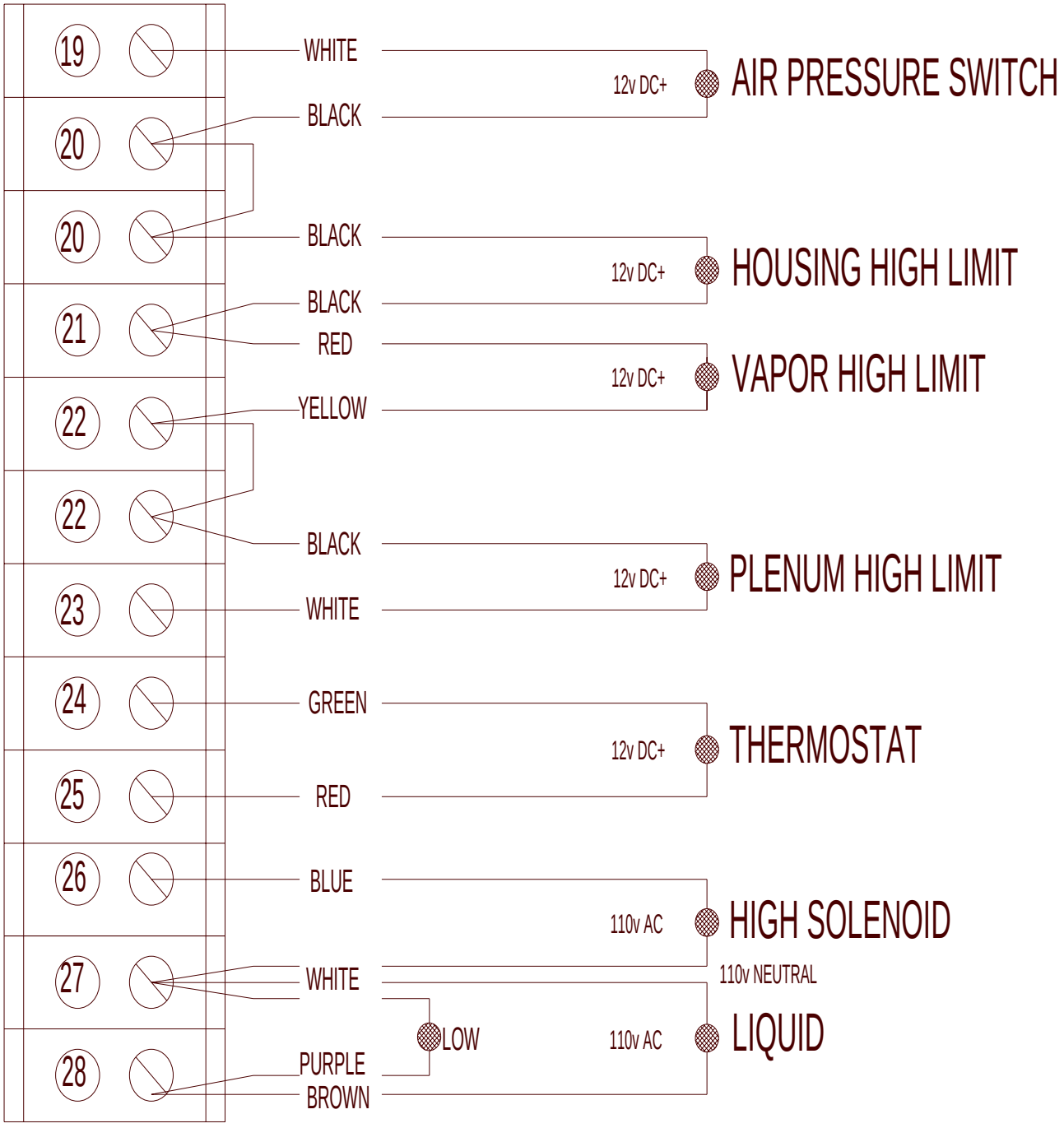
Pre-1997 Autoflow-Actuator Schematic



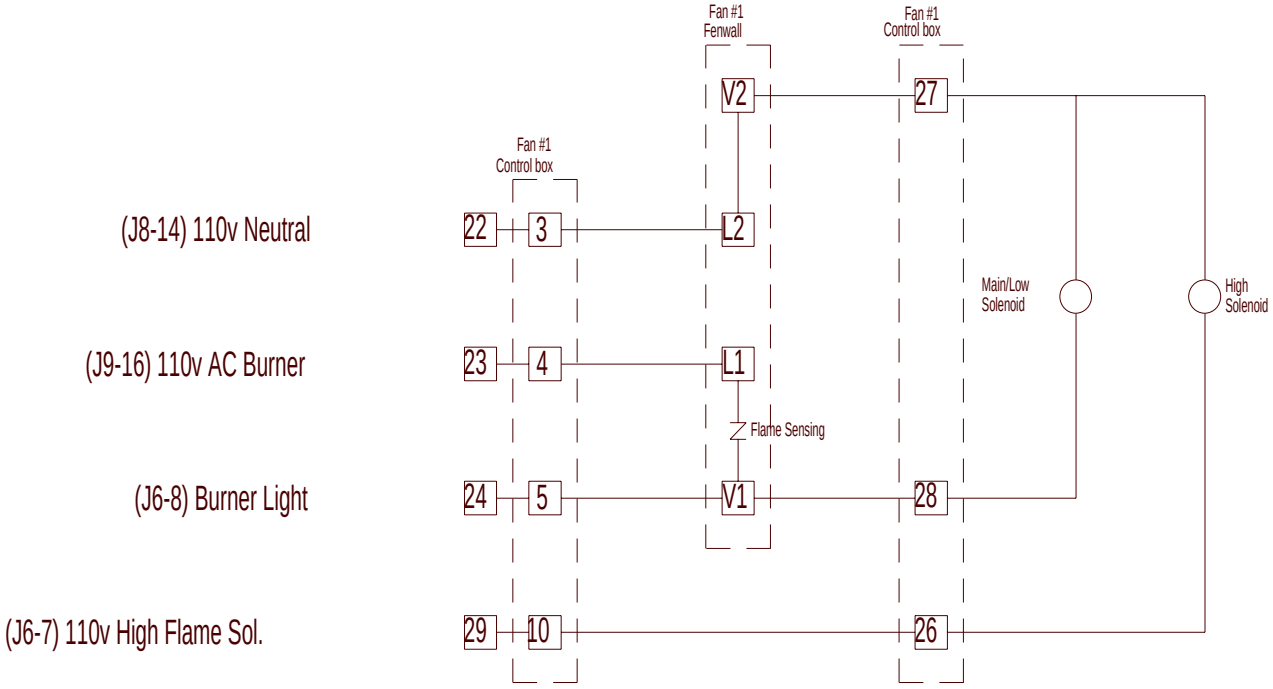
Pre-1997 Autoflow-Fan/Heater Control Box Wiring

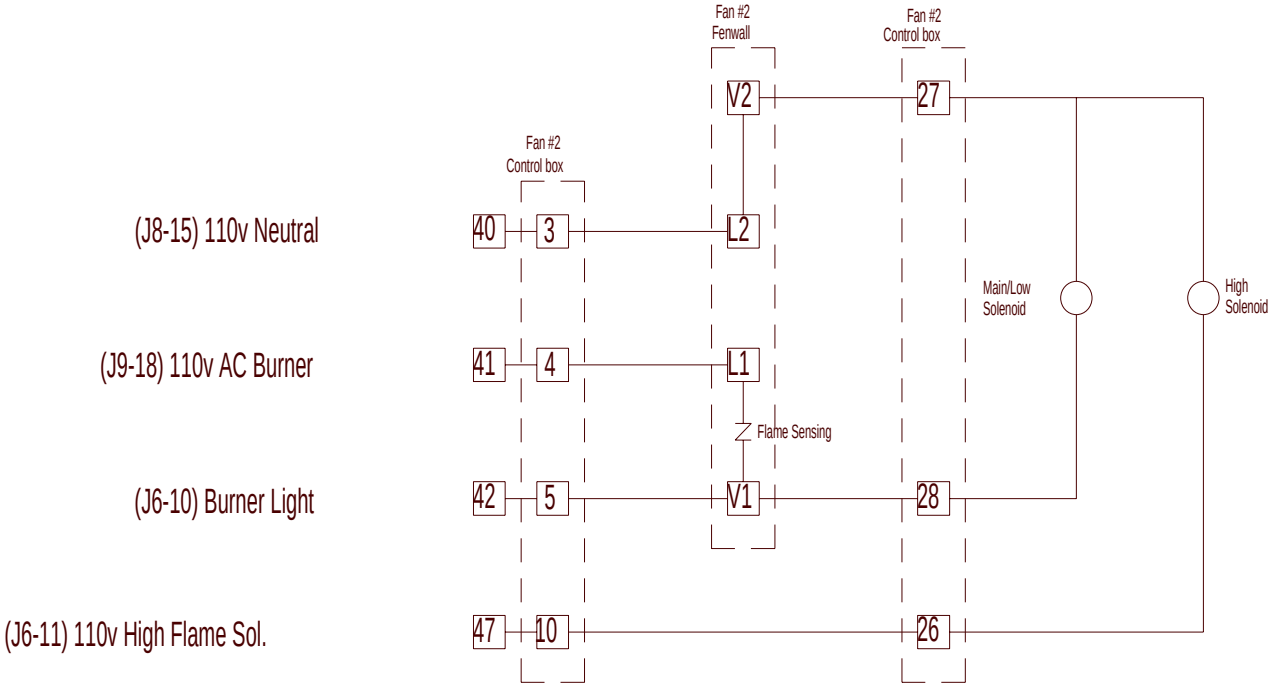


Pre-1997 Autoflow-Fan/Heater External Wiring

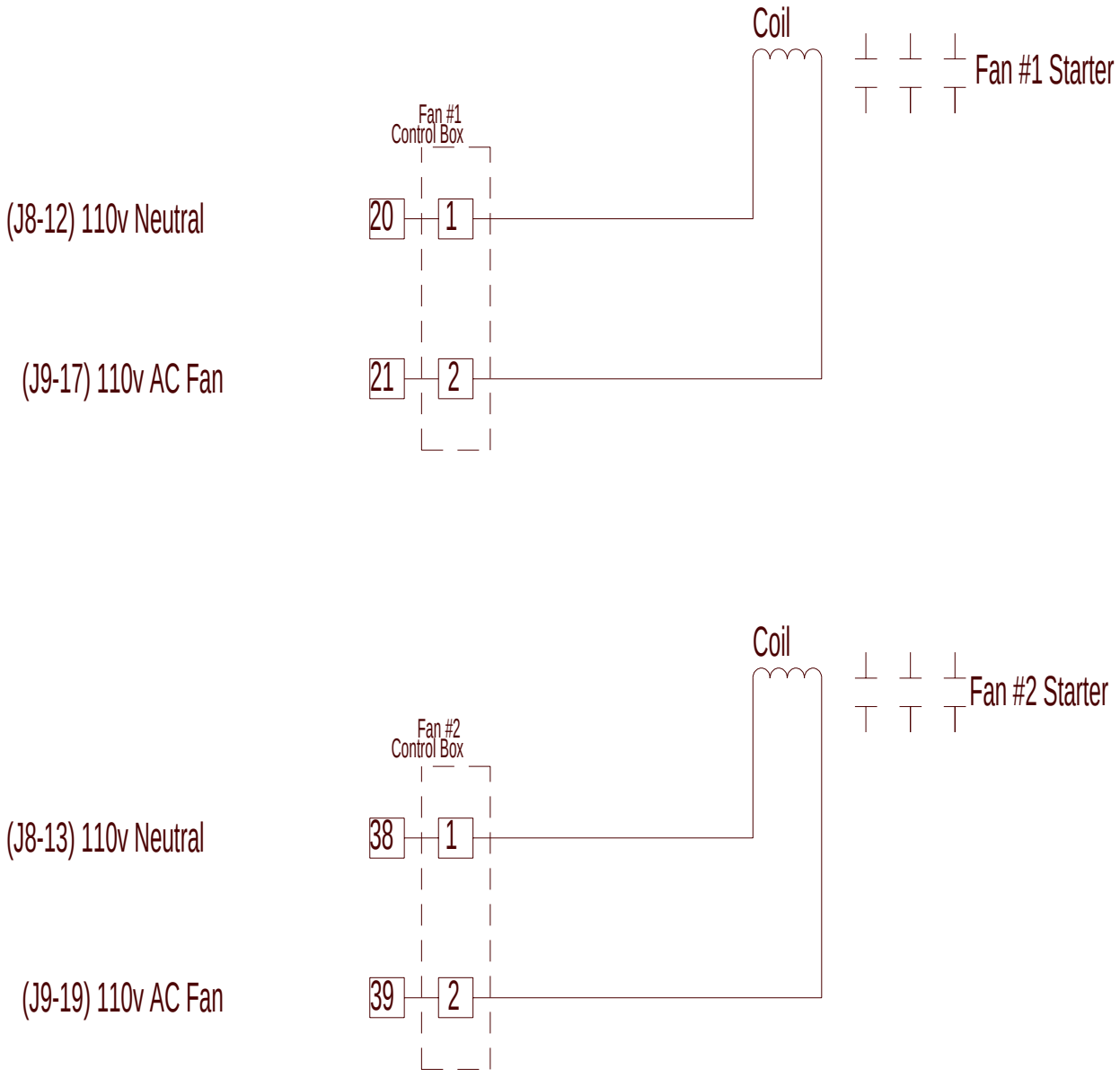


Pre-1997 Autoflow-Fan/Heater Burner Circuits

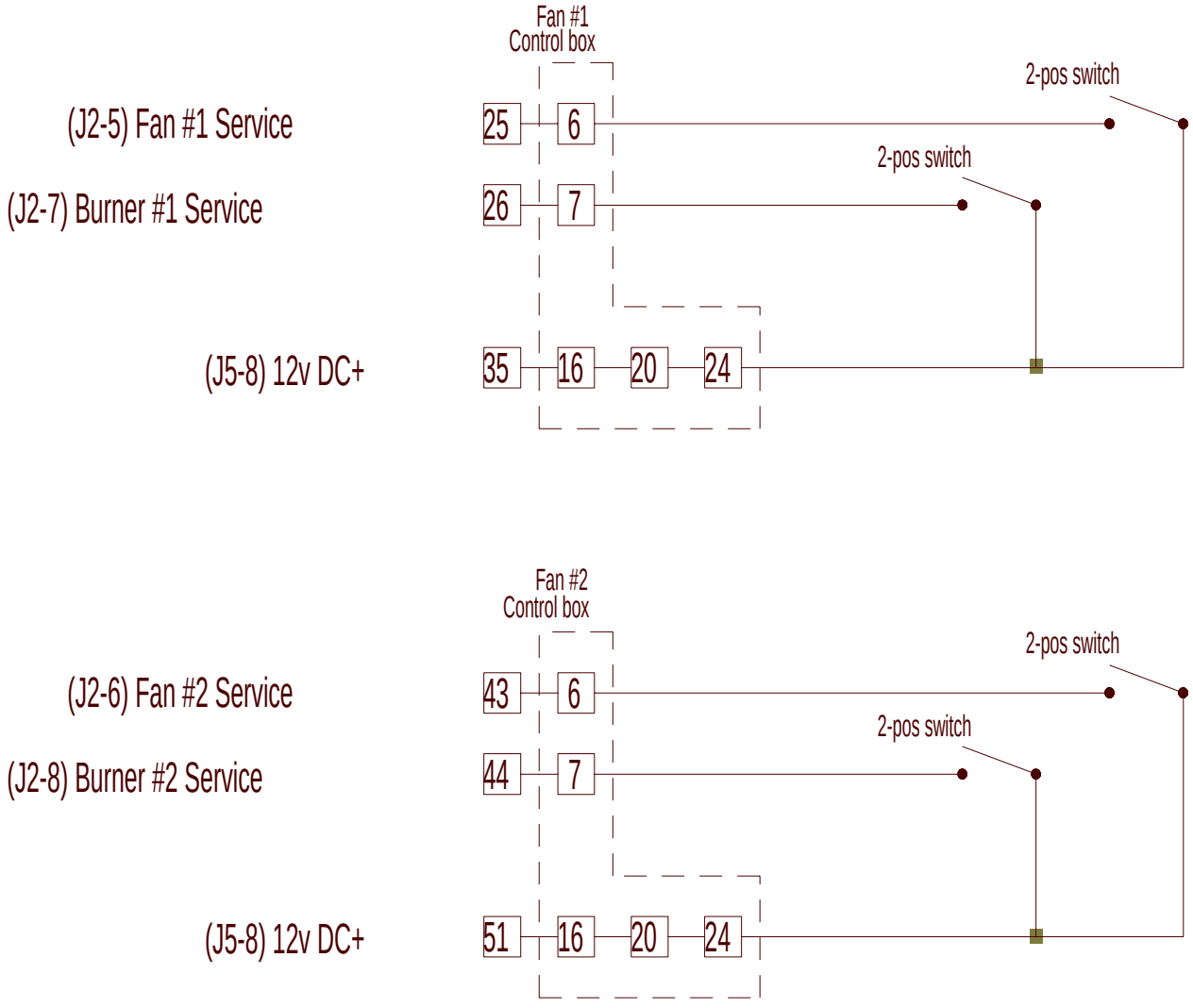




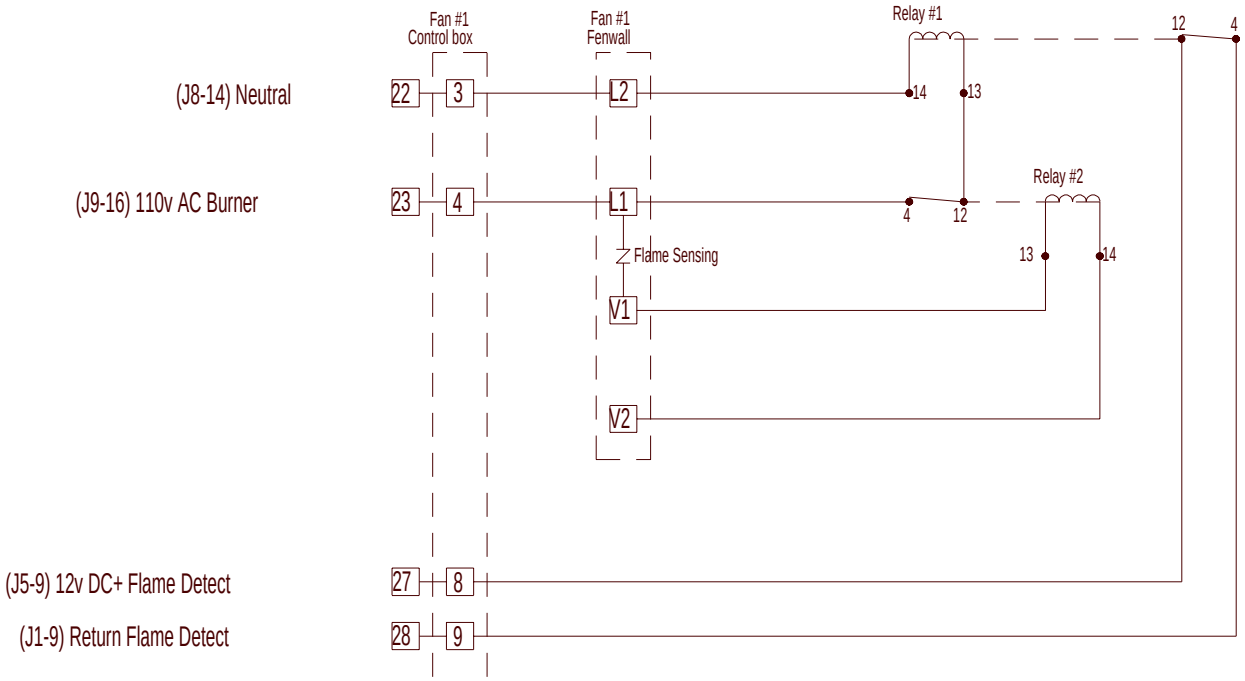
Pre-1997 Autoflow-Fan/Heater Fan Circuit

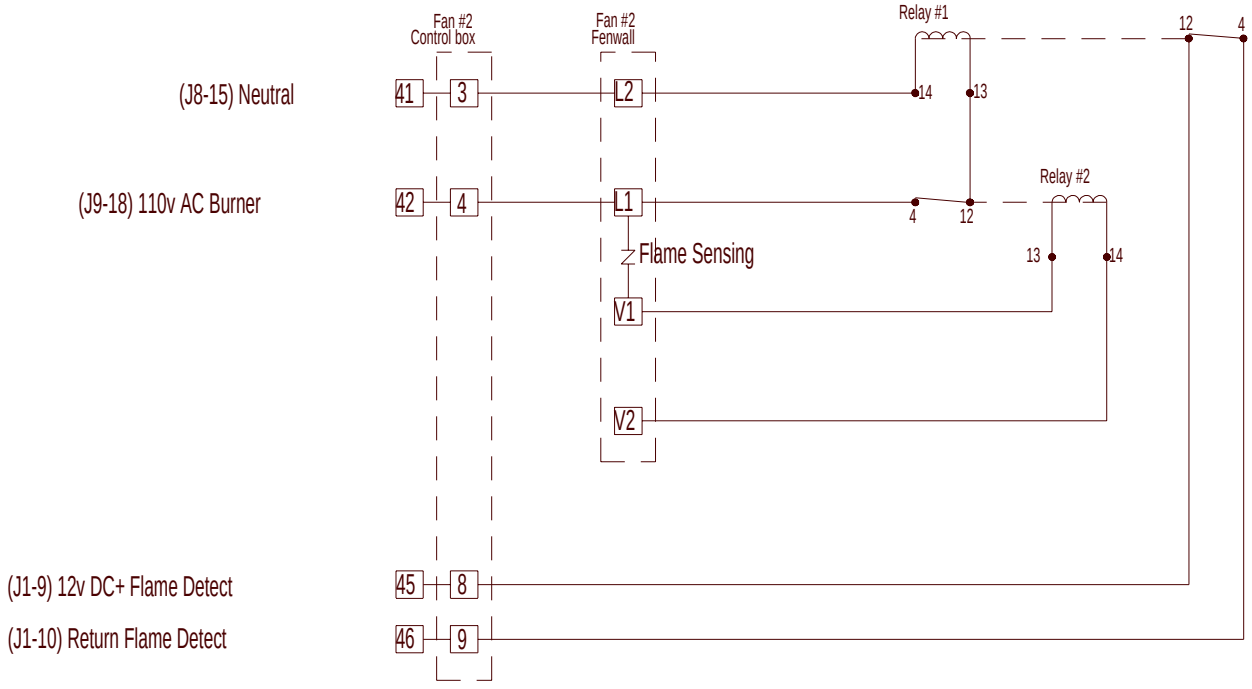


Pre-1997 Autoflow-Fan/Heater Service Switch Circuits

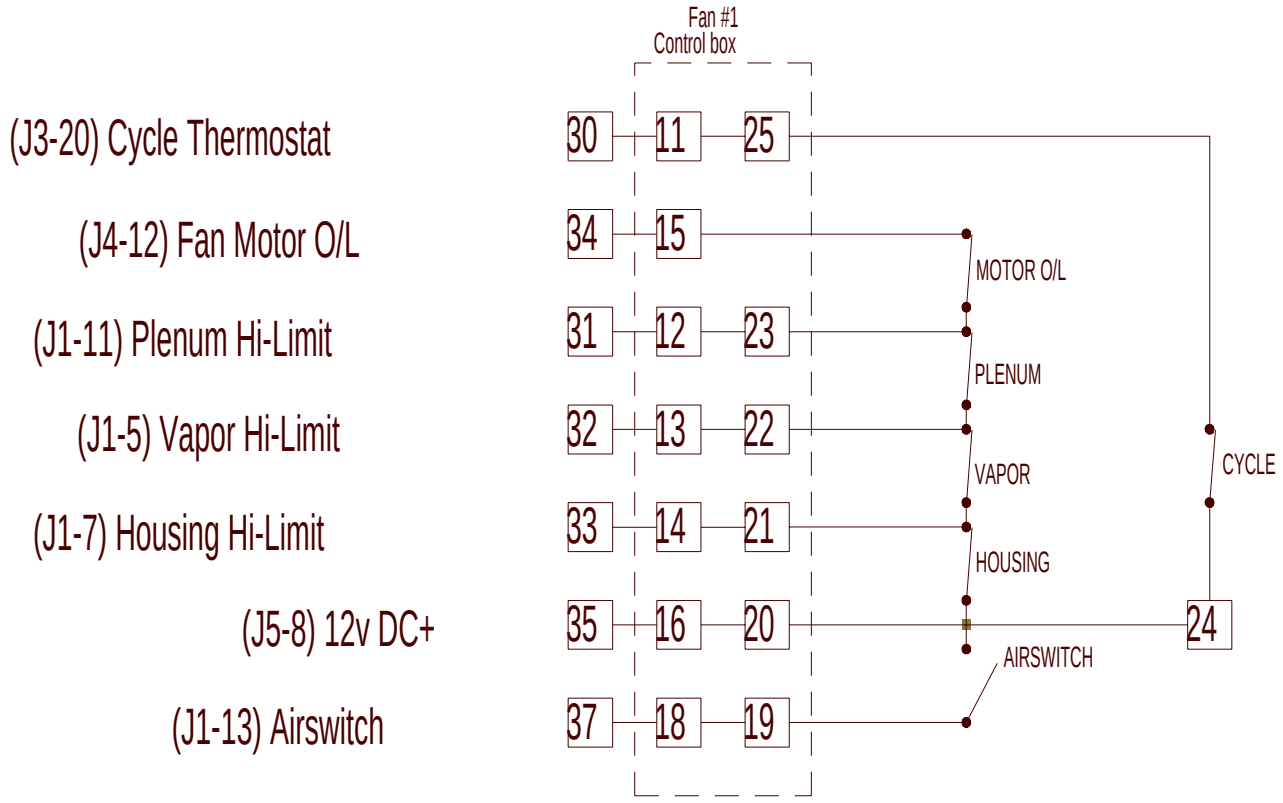


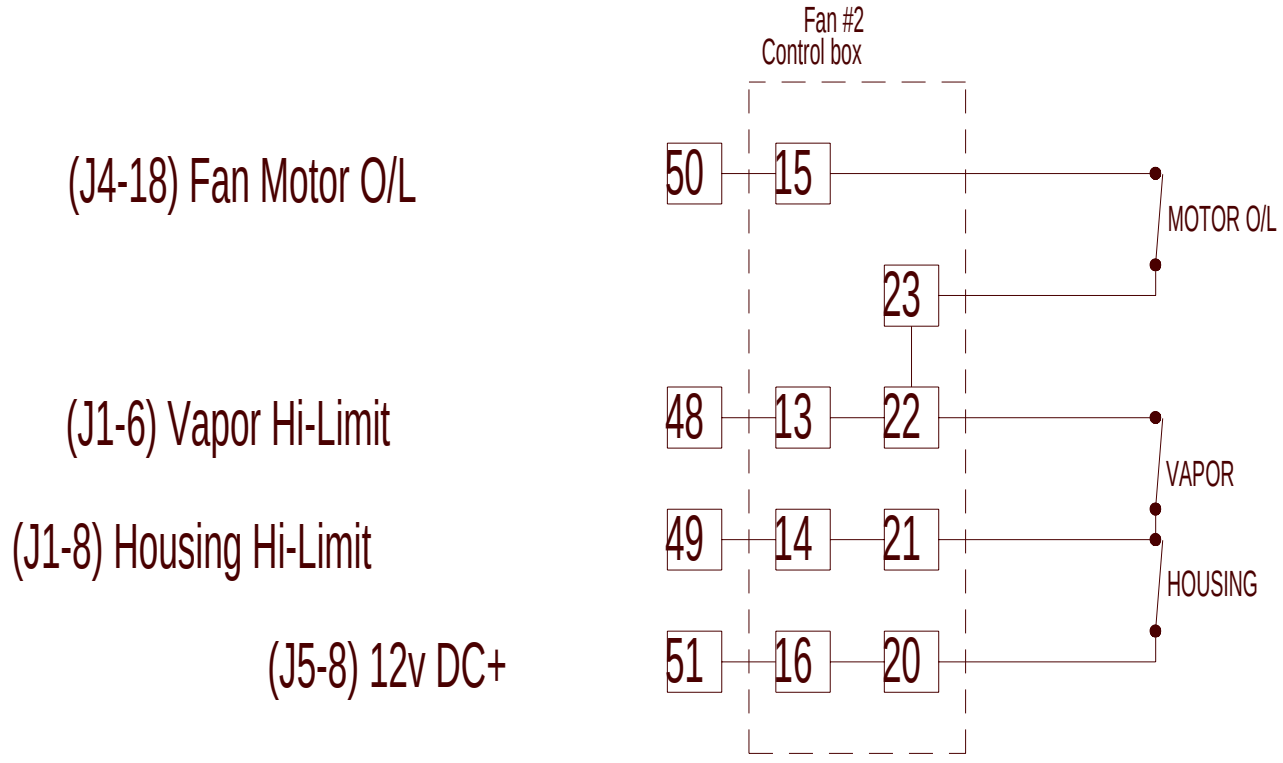
Pre-1997 Autoflow-Fan/Heater Flame Detection Circuits



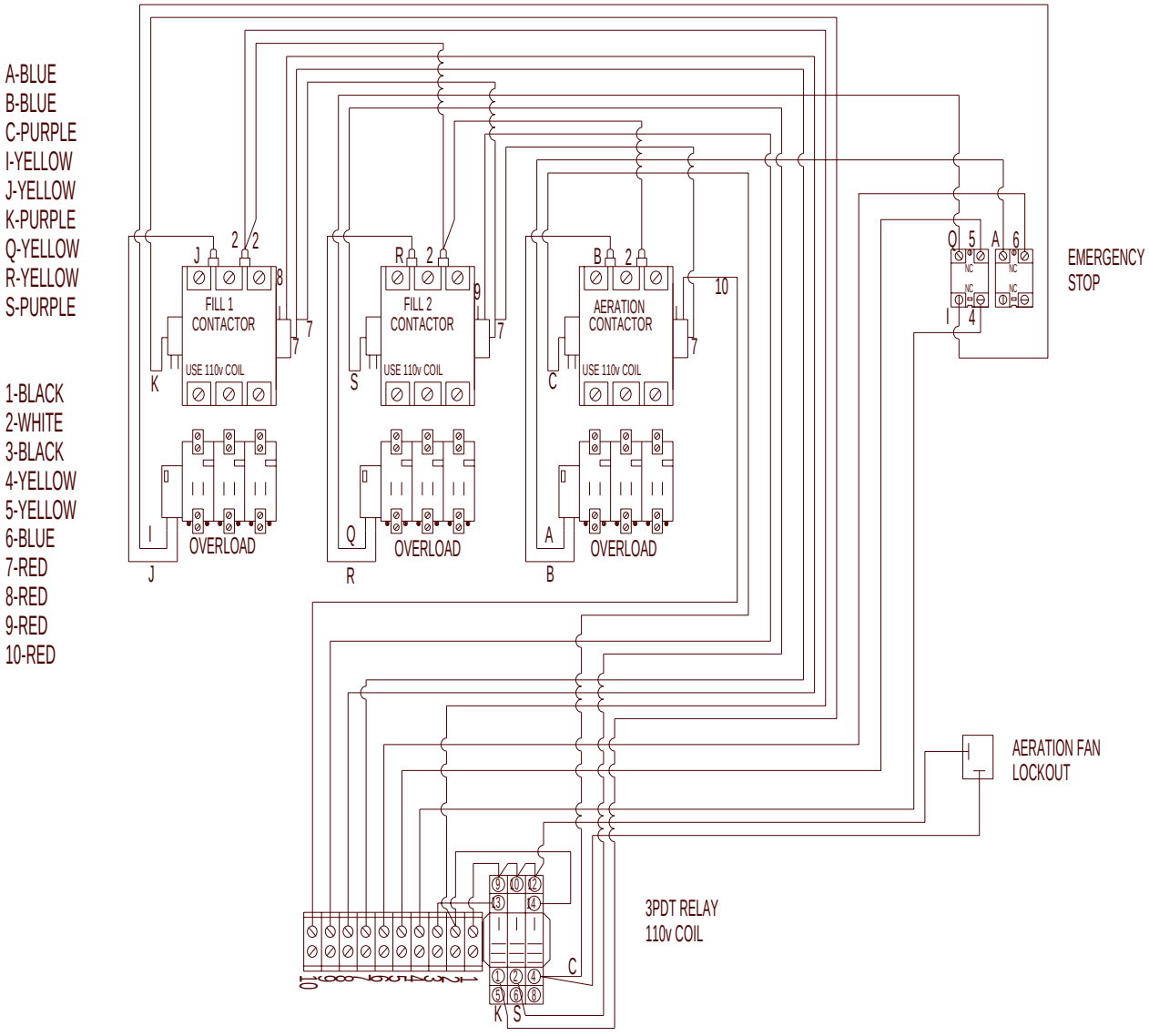


Pre-1997 Autoflow-Fan/Heater Safety Circuits

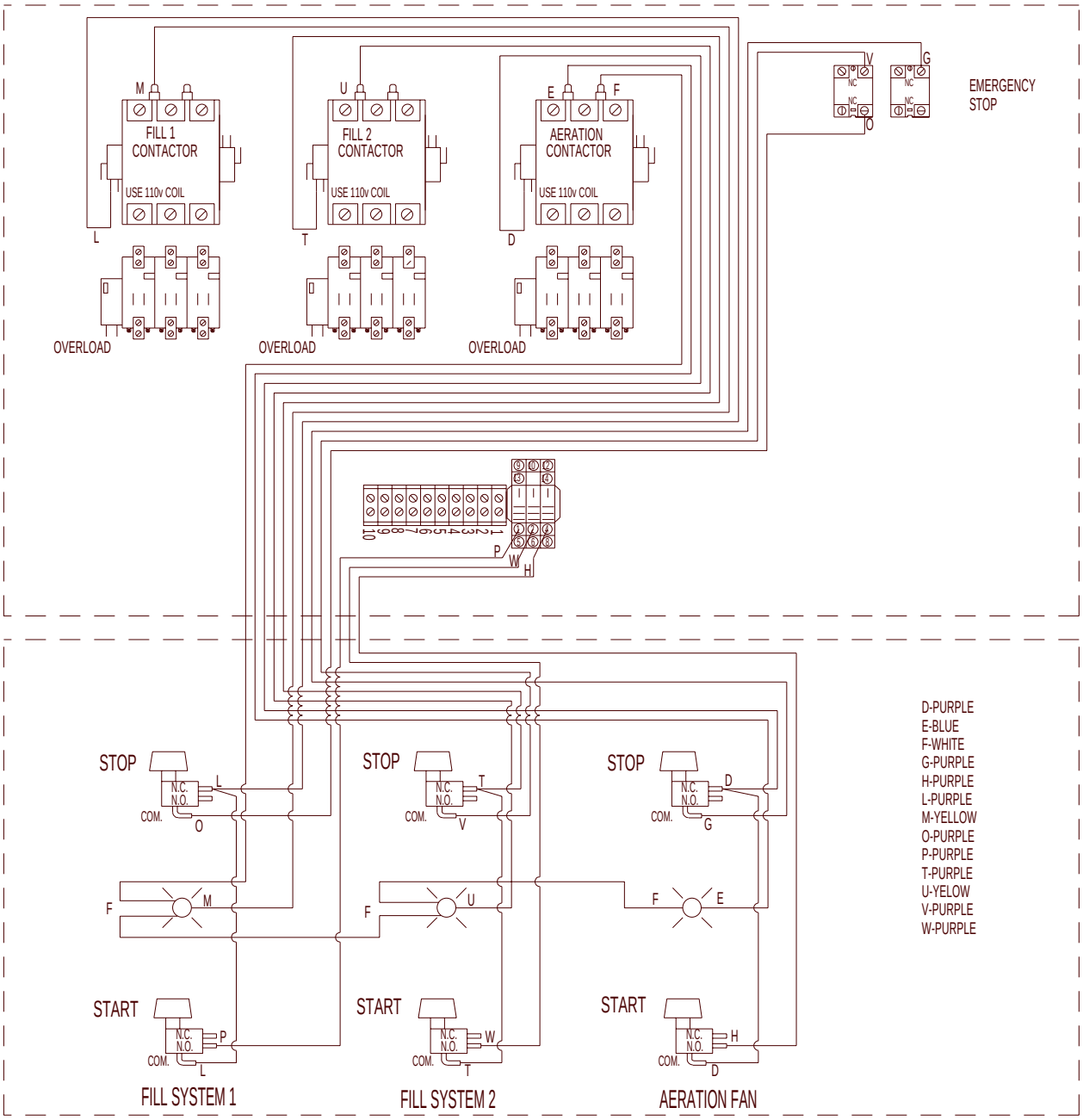




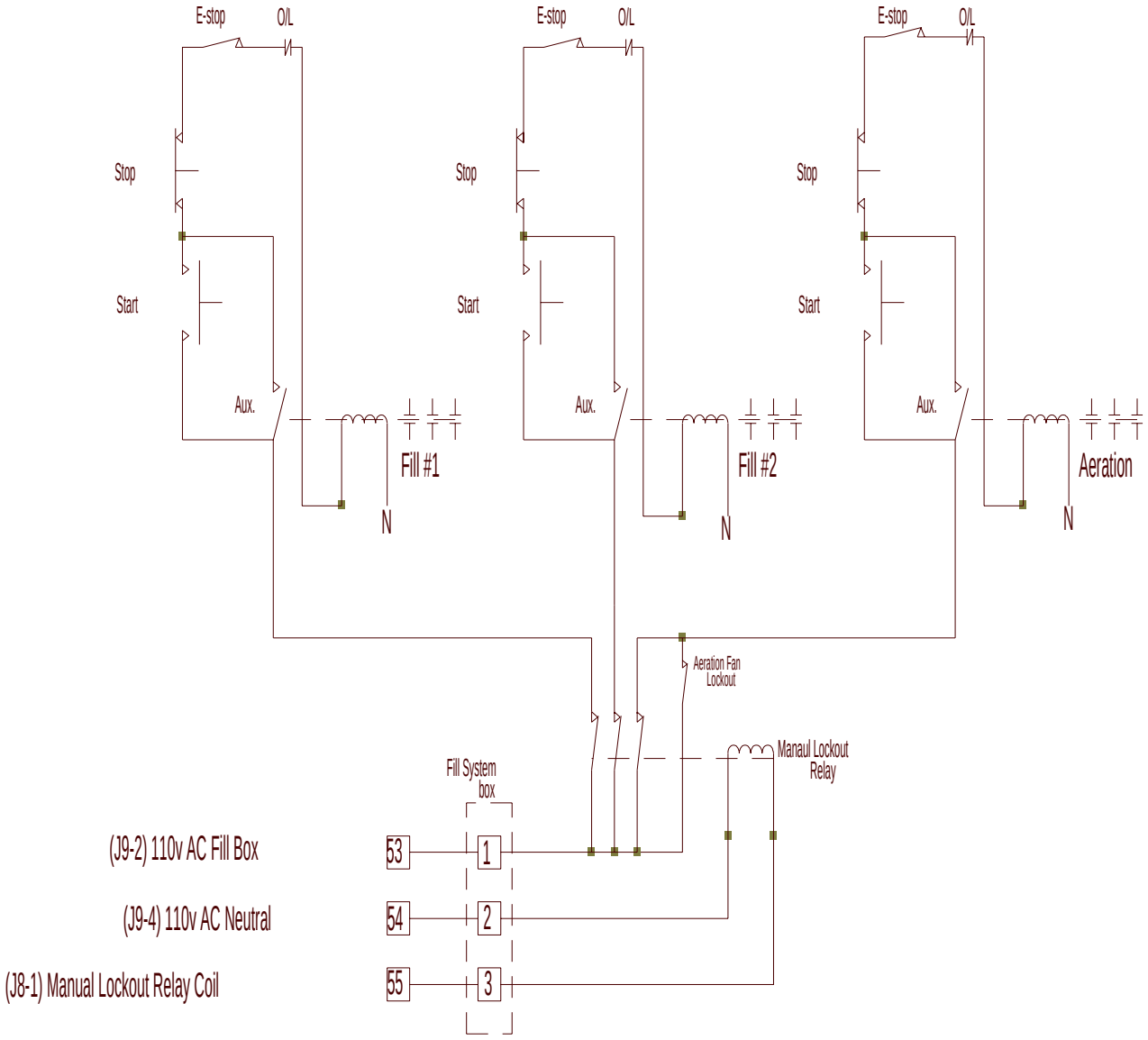
Pre-1997 Autoflow-Fill System Control Box Internal Wiring



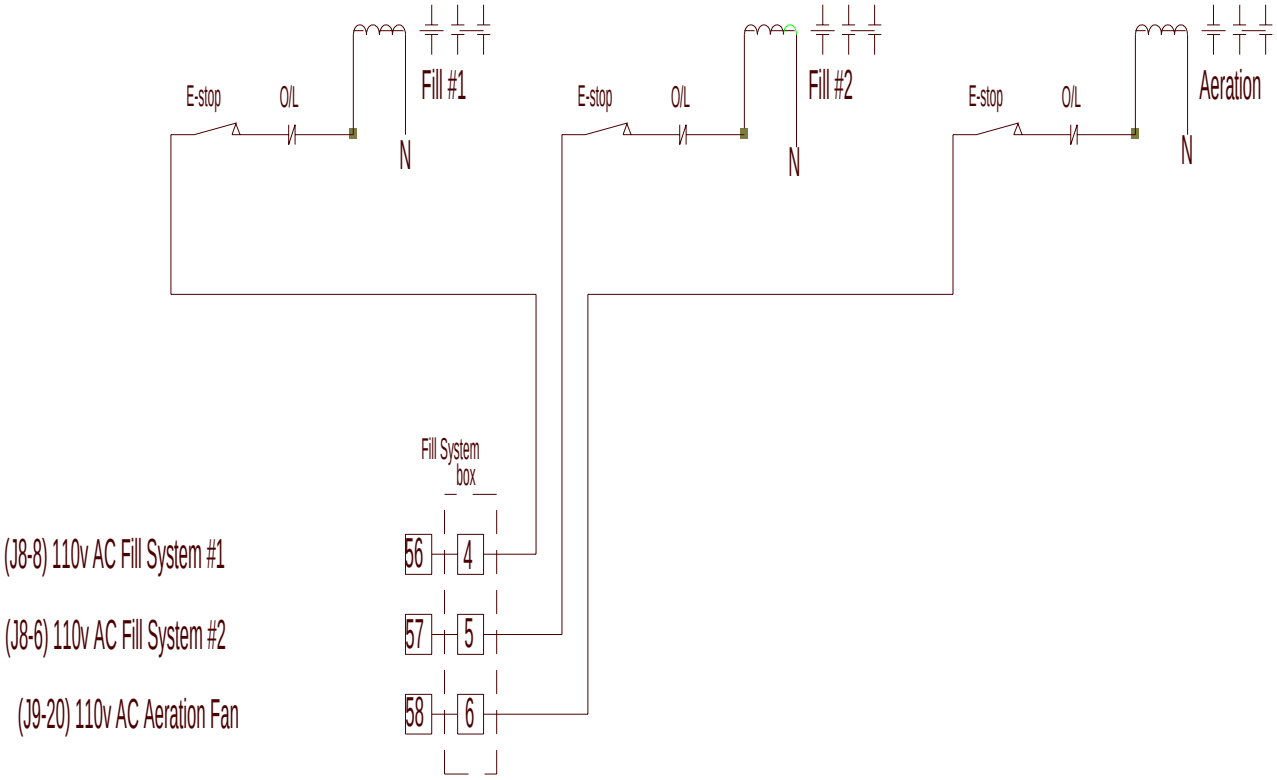
Pre-1997 Autoflow-Fill System Control Box External Wiring



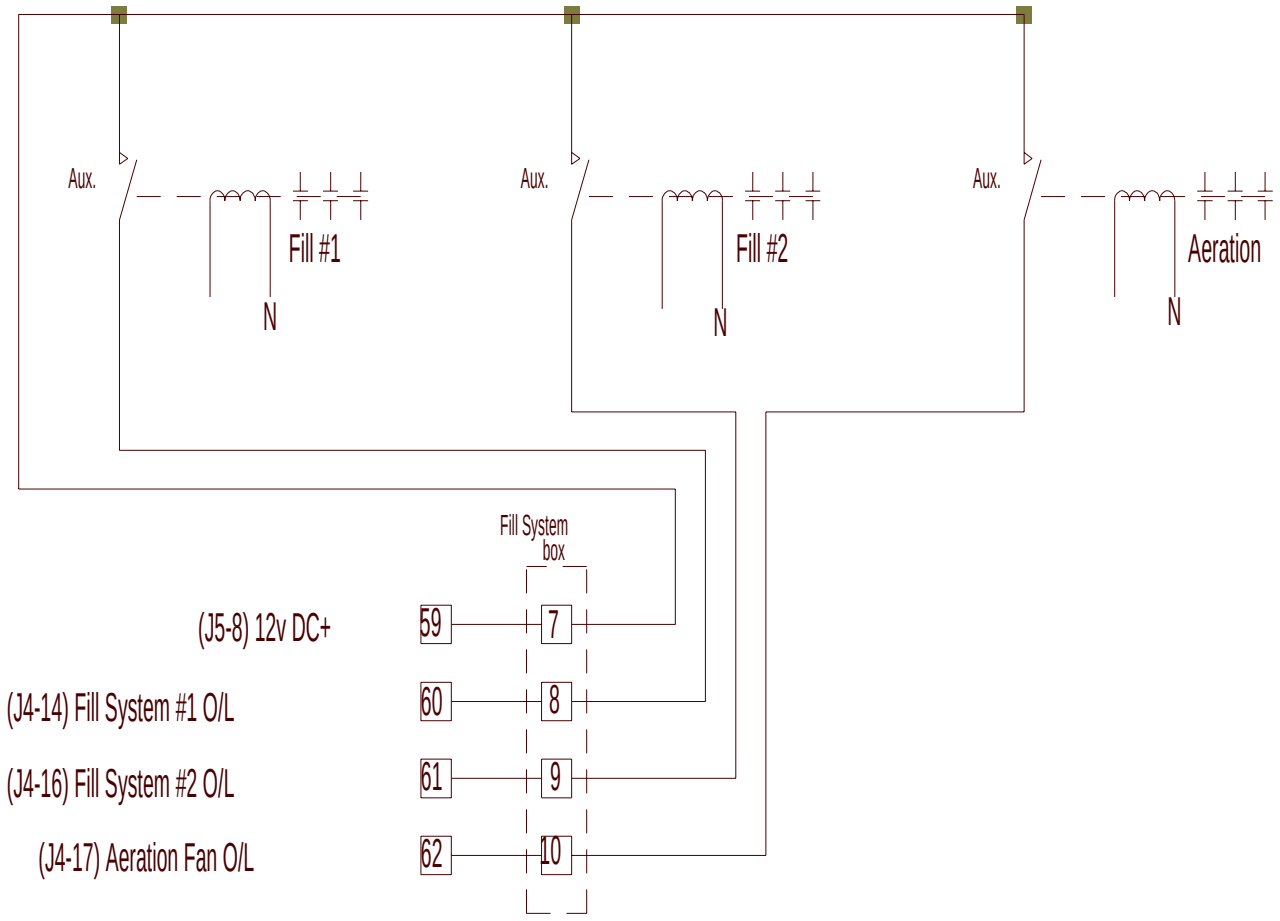
Pre-1997 Autoflow-Fill System Manual Start/Stop Circuit



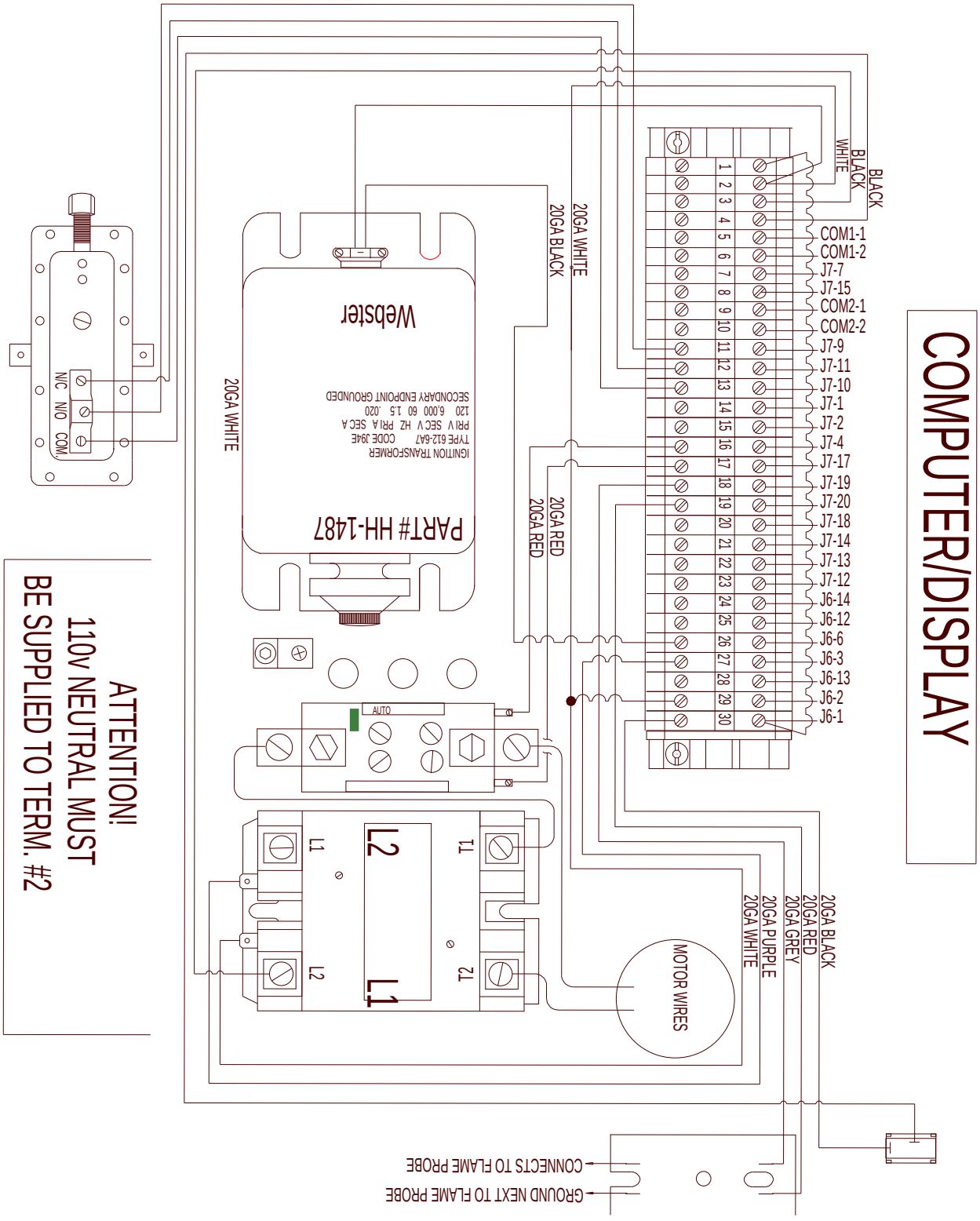
Pre-1997 Autoflow-Fill System Automatic Start Circuit



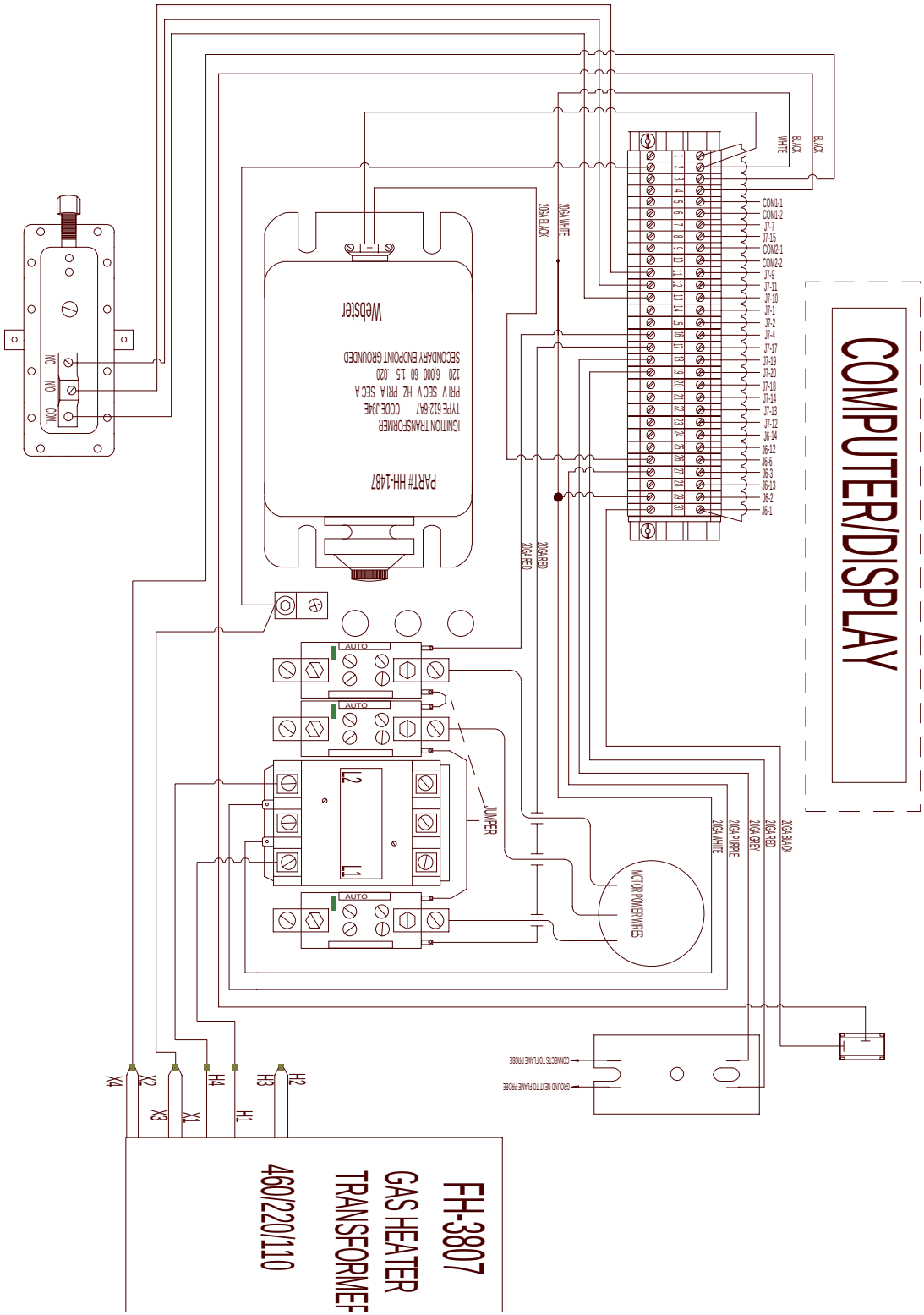
Pre-1997 Autoflow-Fill System Safety Circuit

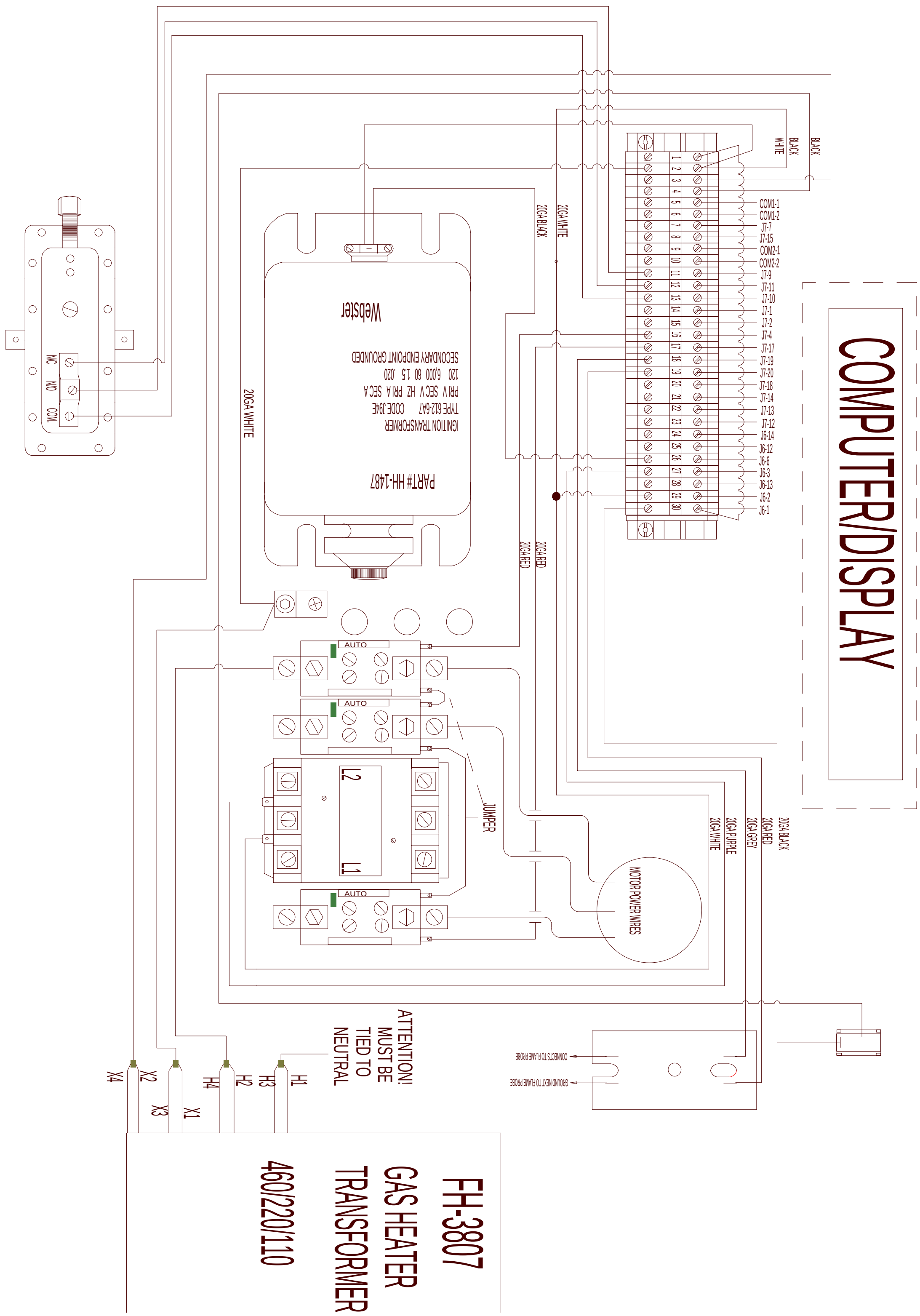


Pre-1997 Series 2000 Batch

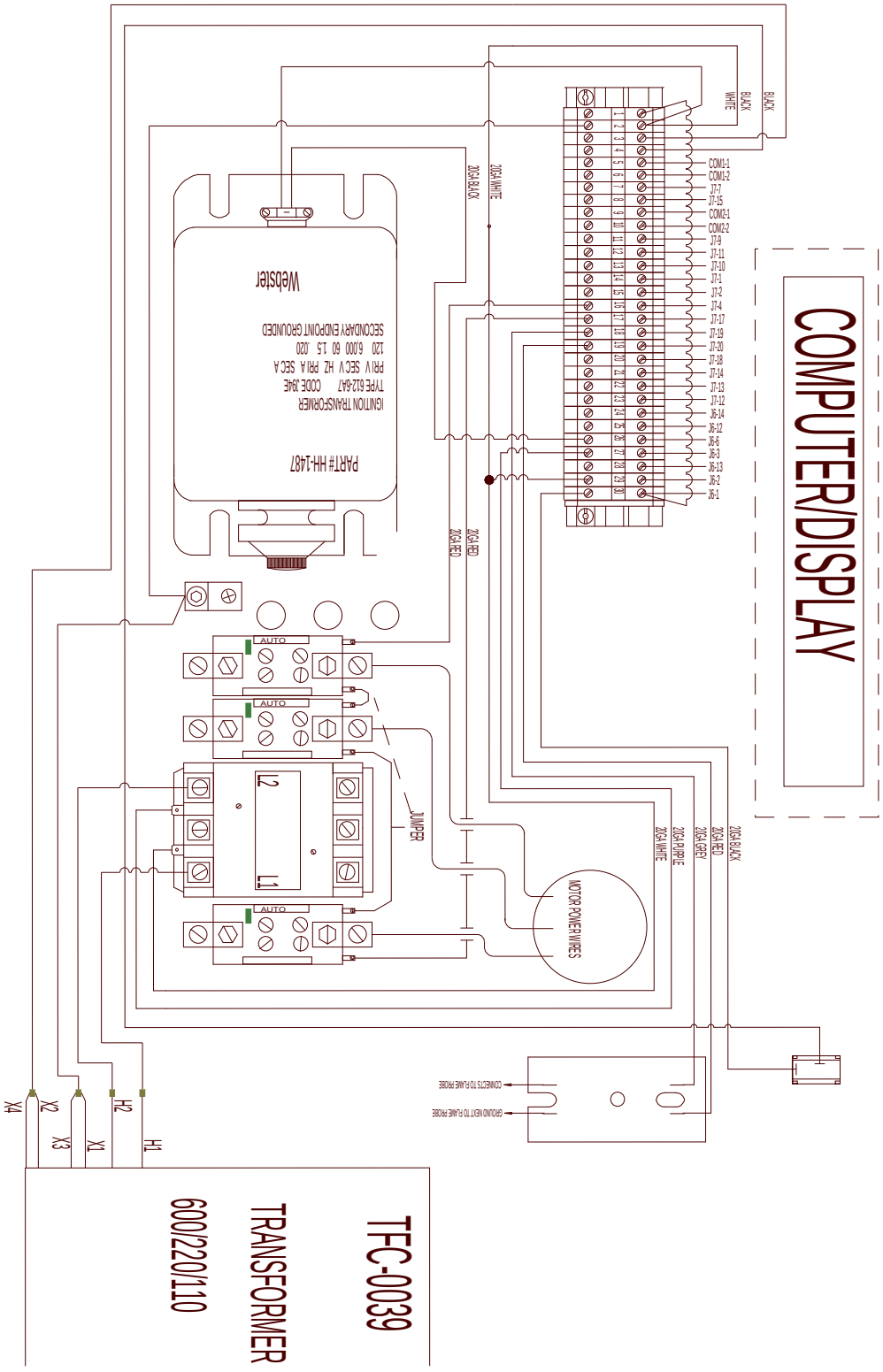

COMPUTER/DISPLAY
ATTENTION!
110v NEUTRAL MUST
BE SUPPLIED TO TERM. #2
Webster
PART# HH-1487
IGNITION TRANSFORMER
TYPE 612-6A7 CODE 394E
PRI V SEC V HZ PRI A SEC A
120 6,000 60 1.5 .020
SECONDARY ENDPOINT GROUNDED
20GA WHITE
20GA BLACK
20GA RED
20GA RED
20GA WHITE
N/C
N/O
COM.
AUTO
L1
L2
T1
T2
MOTOR WIRES
20GA BLACK
20GA RED
20GA GREY
20GA PURPLE
20GA WHITE
BLACK
WHITE
COM1-1
COM1-2
J7-7
J7-15
COM2-1
COM2-2
J7-9
J7-11
J7-10
J7-1
J7-2
J7-4
J7-17
J7-19
J7-20
J7-18
J7-14
J7-13
J7-12
J6-14
J6-12
J6-6
J6-3
J6-13
J6-2
J6-1
CONNECTS TO FLAME PROBE
GROUND NEXT TO FLAME PROBE

Top Dry Pre-98 Wiring Diagrams

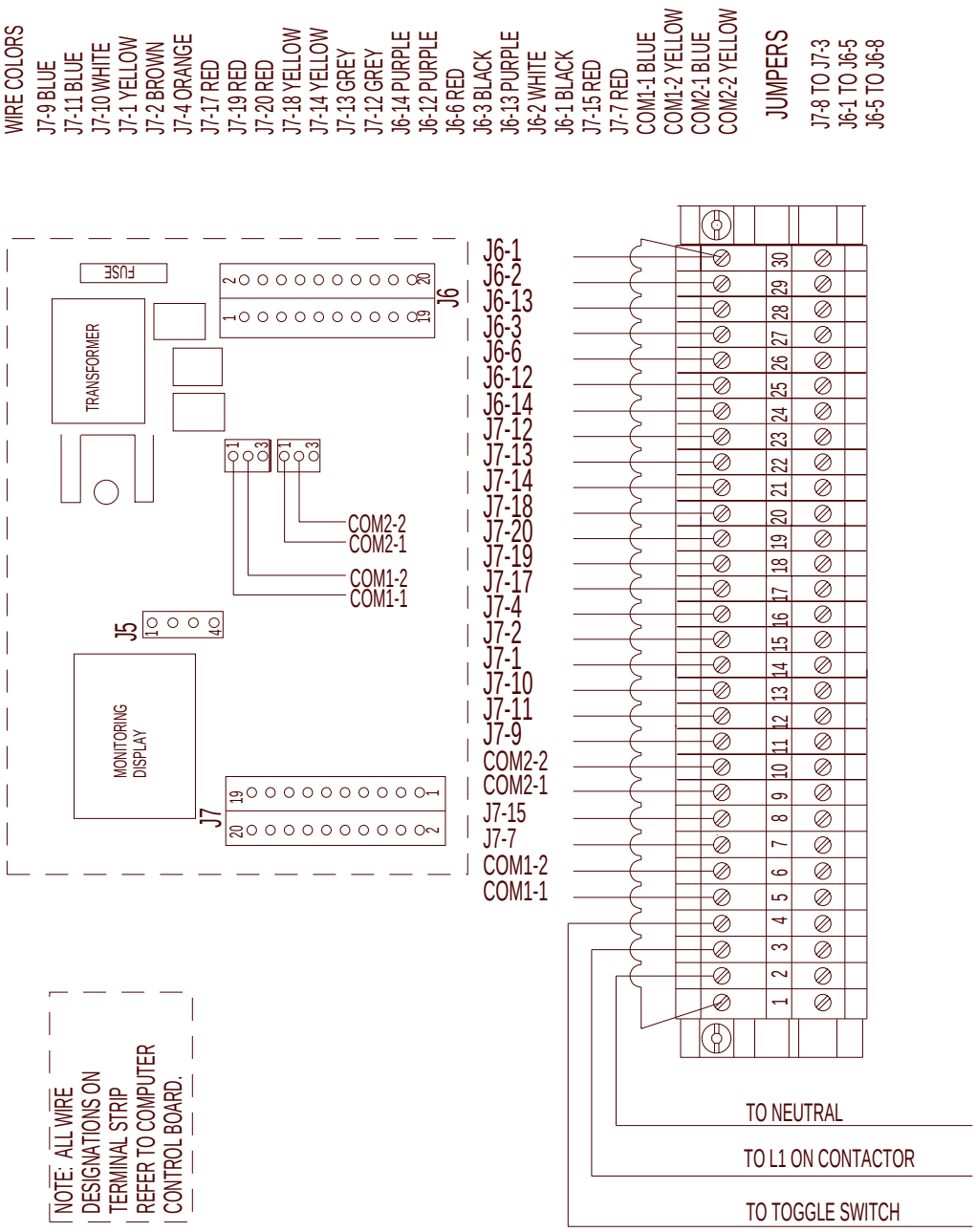



COMPUTER/DISPLAY
Webster
SECONDARY ENDPOINT GROUNDED
120 6,000 60 1.5 .020
PRI V SEC V HZ PRI A SEC A
TYPE 612-6A7 CODE J94E
IGNITION TRANSFORMER
PART# HH-1487
20GA WHITE
20GA BLACK
20GA RED
20GA PURPLE
20GA GREY
WHITE
BLACK
NC
NO
COM.
AUTO
L2
L1
JUMPER
MOTOR POWER WIRES
ATTENTION! MUST BE TIED TO NEUTRAL
X4
X2
X3
X1
H4
H2
H3
H1
FH-3807
GAS HEATER
TRANSFORMER
460/220/110

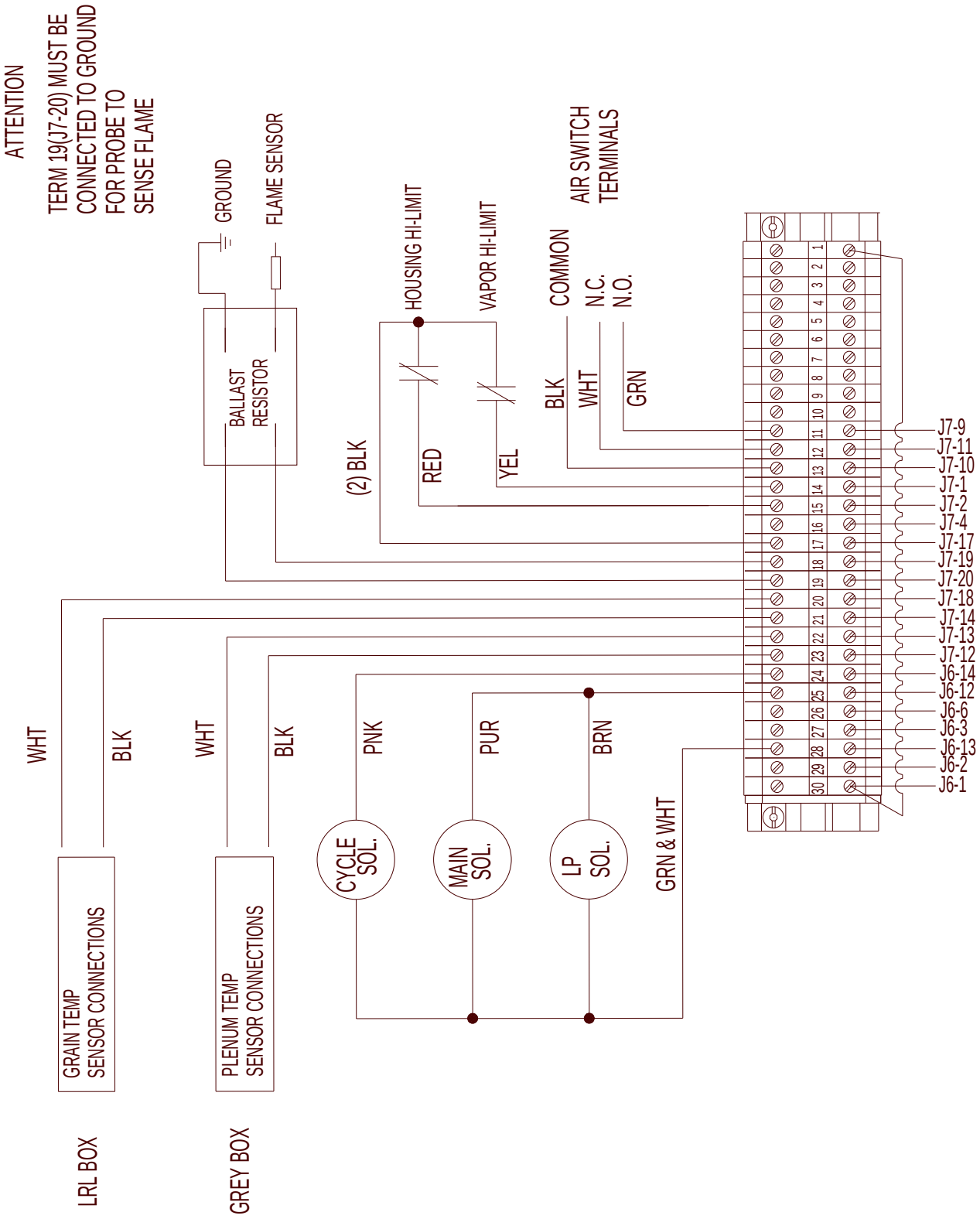
Top Dry Pre-98 Wiring Diagrams



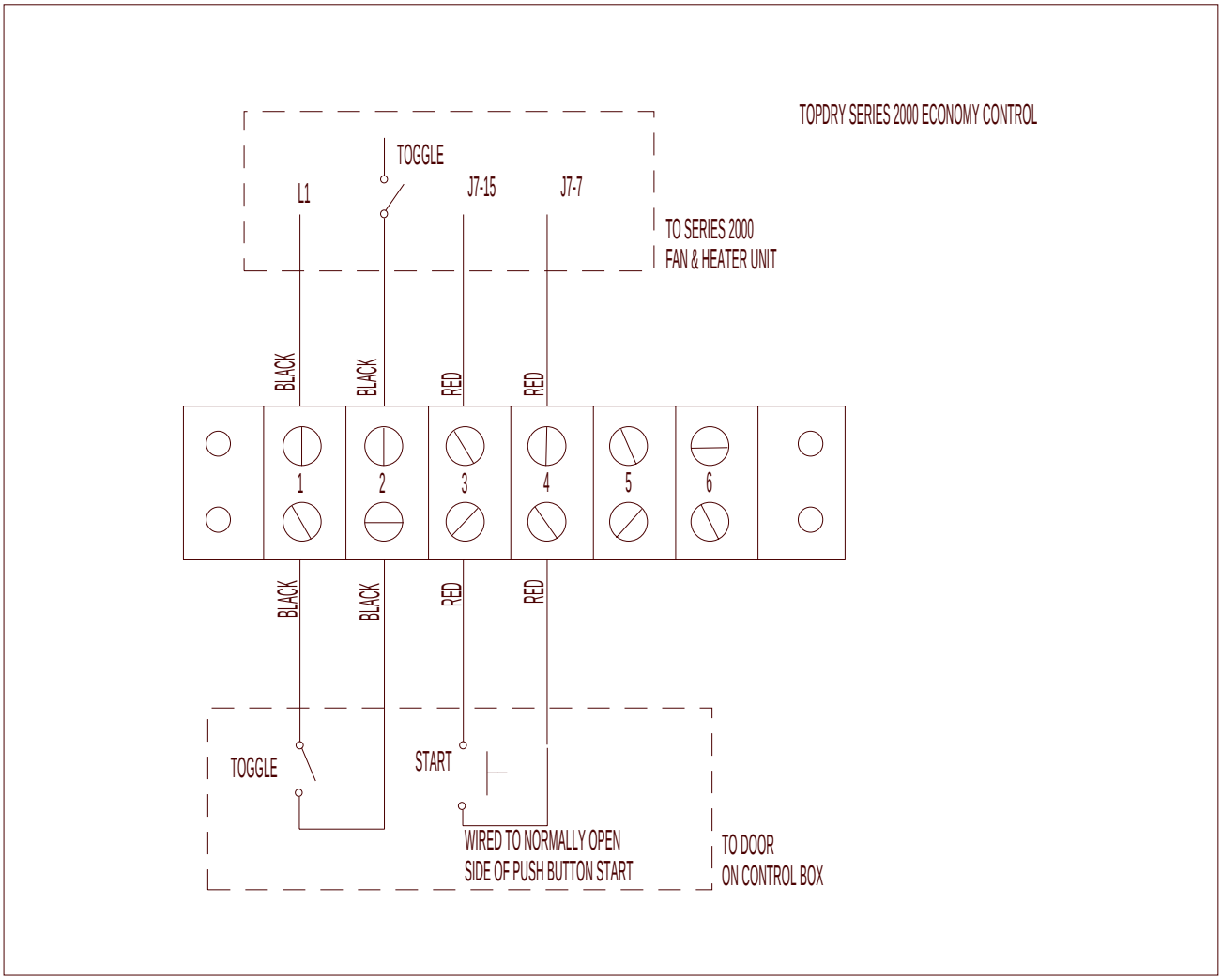
Pre-1997 Series 2000-Terminal Strip



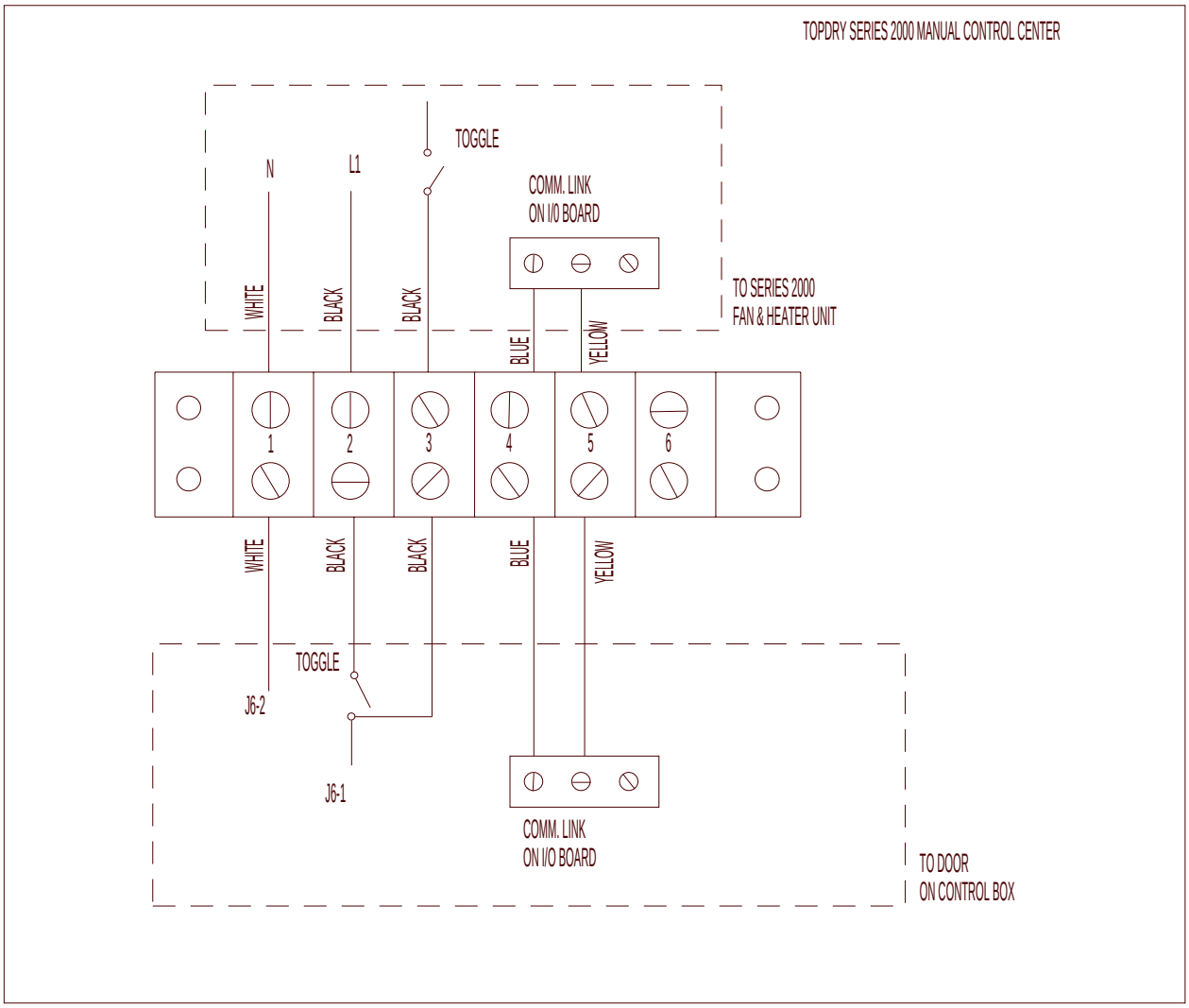
Pre-1997 Series 2000-External Wiring



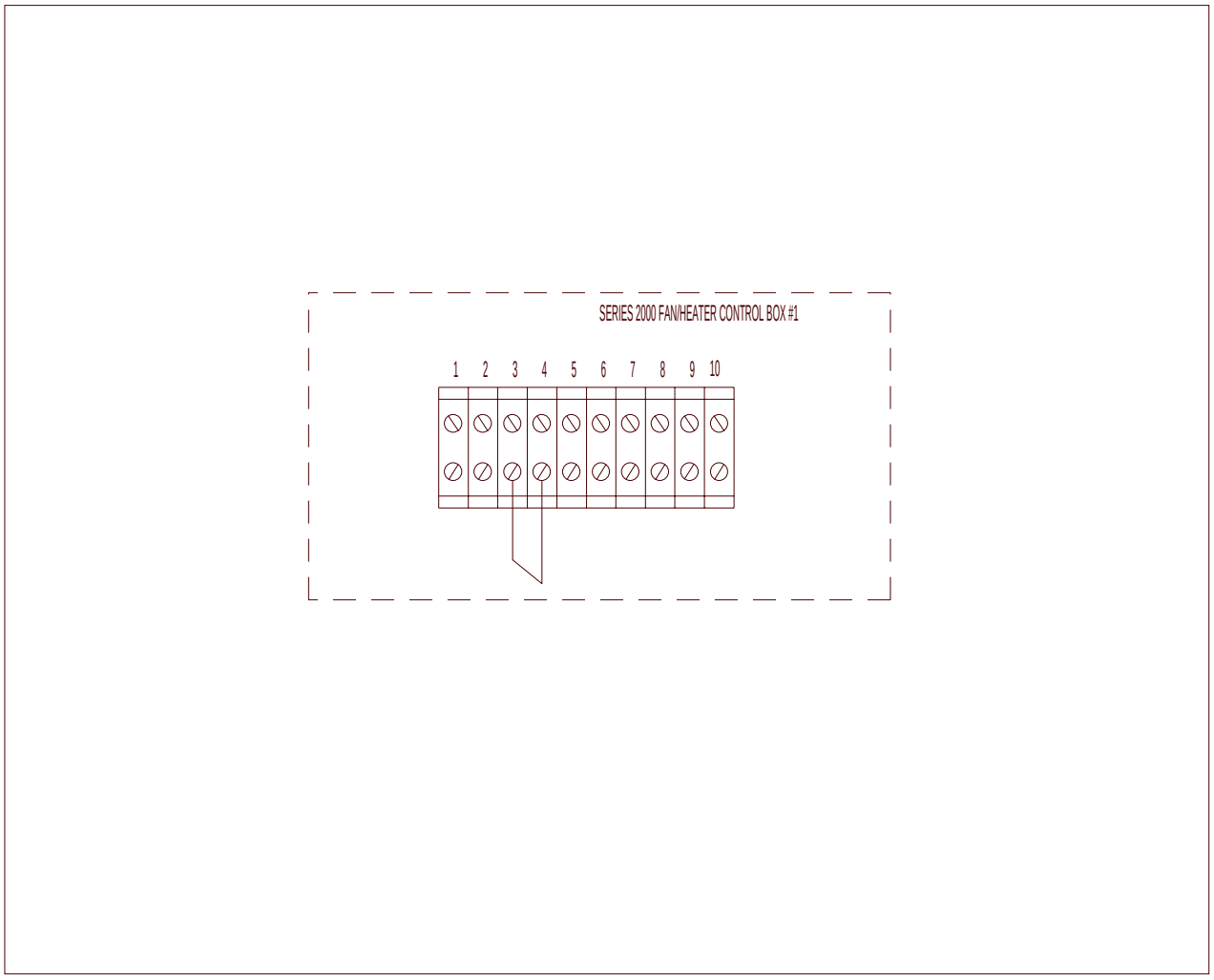
Pre-1997 Series 2000-Economy Control



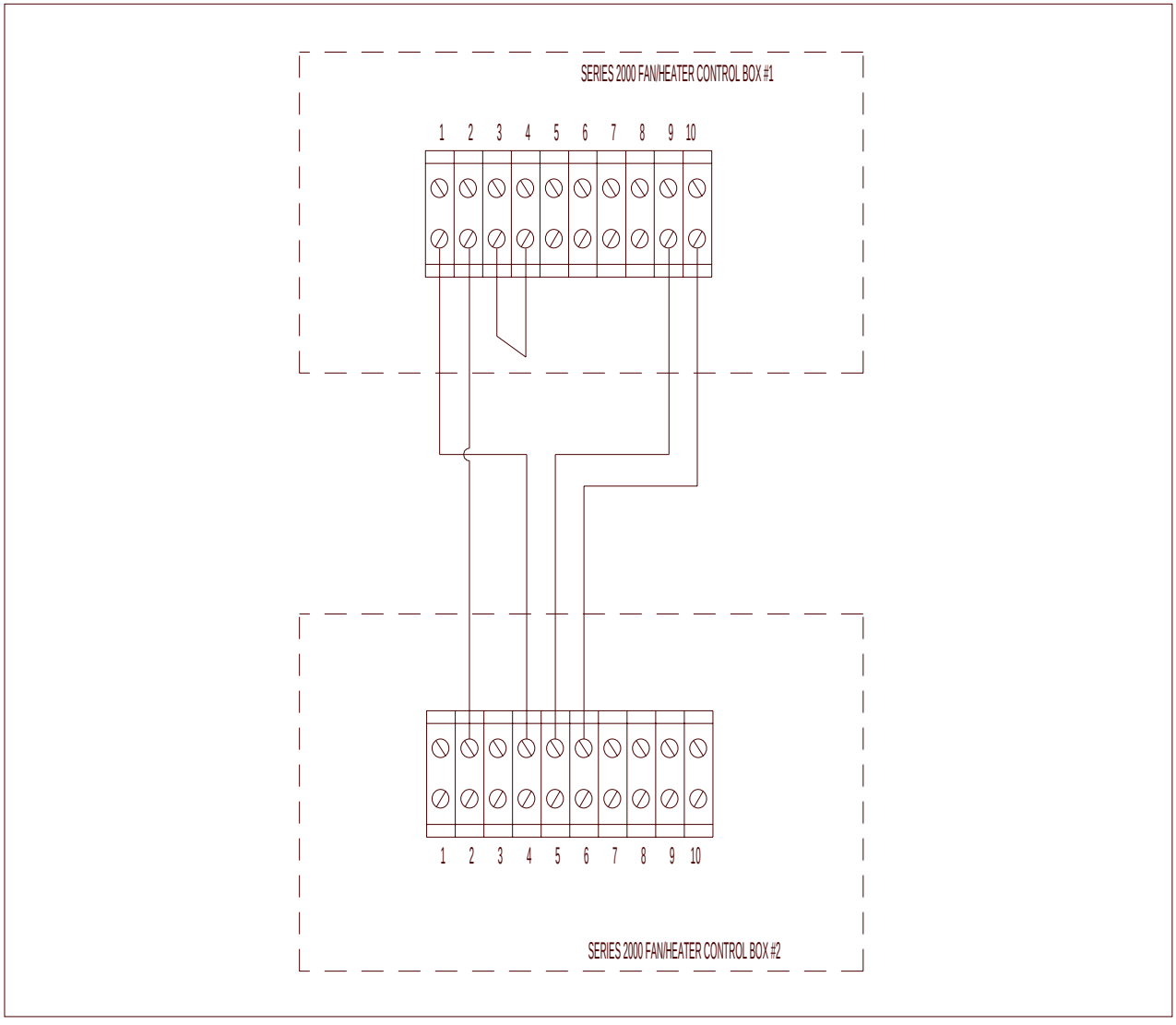
Pre-1997 Series 2000-Manual Control Center



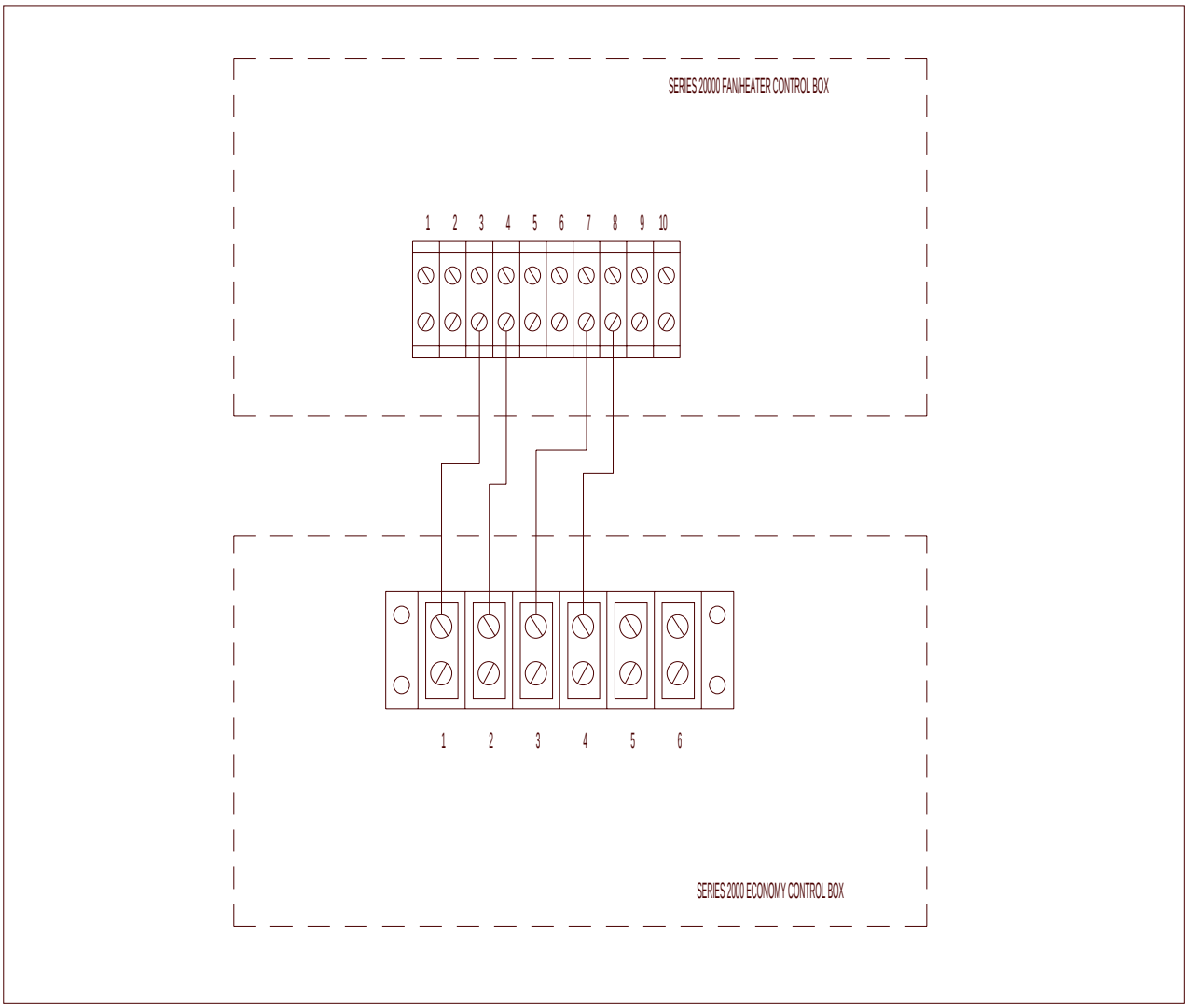
Pre-1997 Series 2000-Stand Alone Heater Interconnect



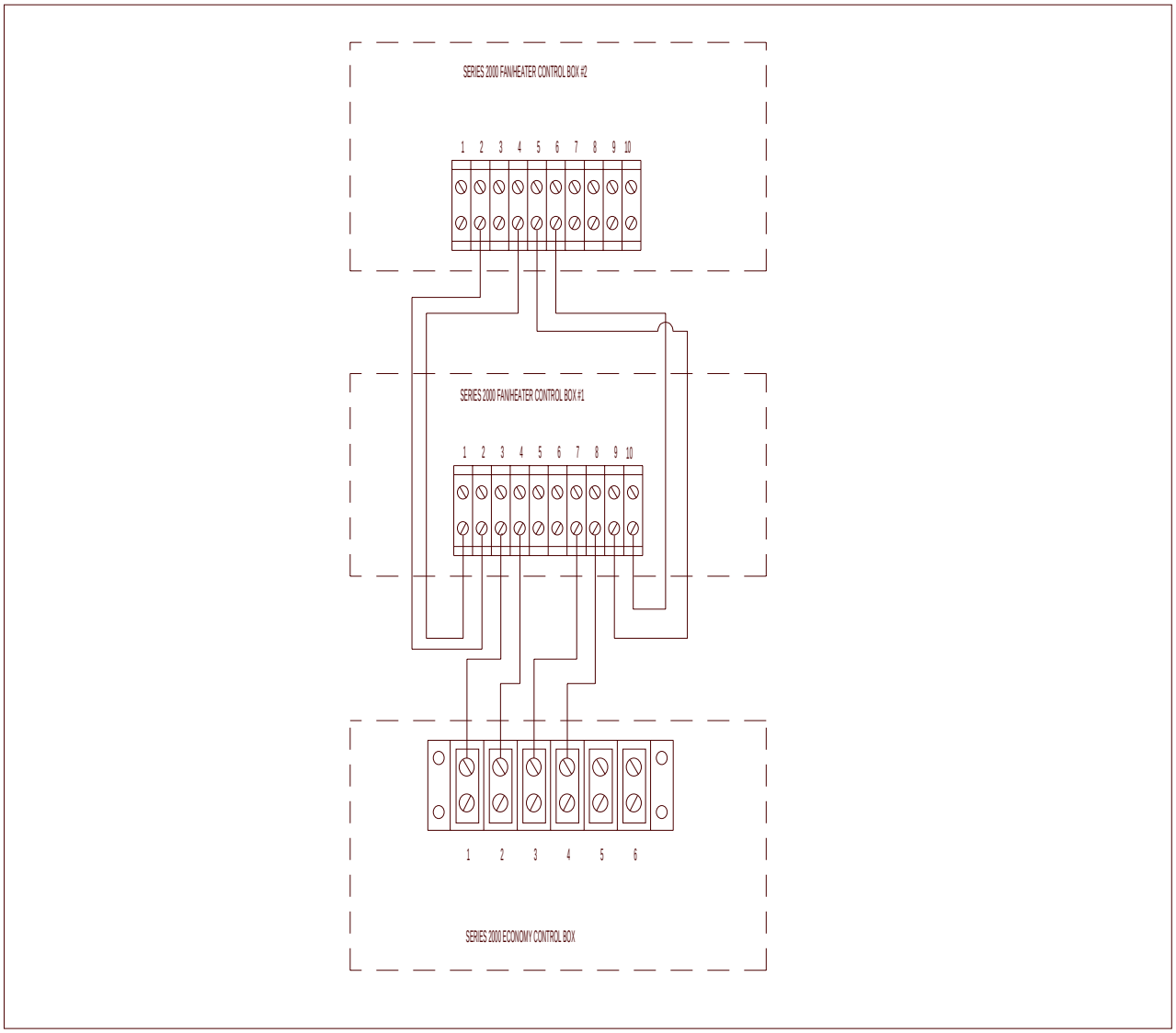
Pre-1997 Series 2000-Stand Alone Master Fan to Slave Fan Interconnect



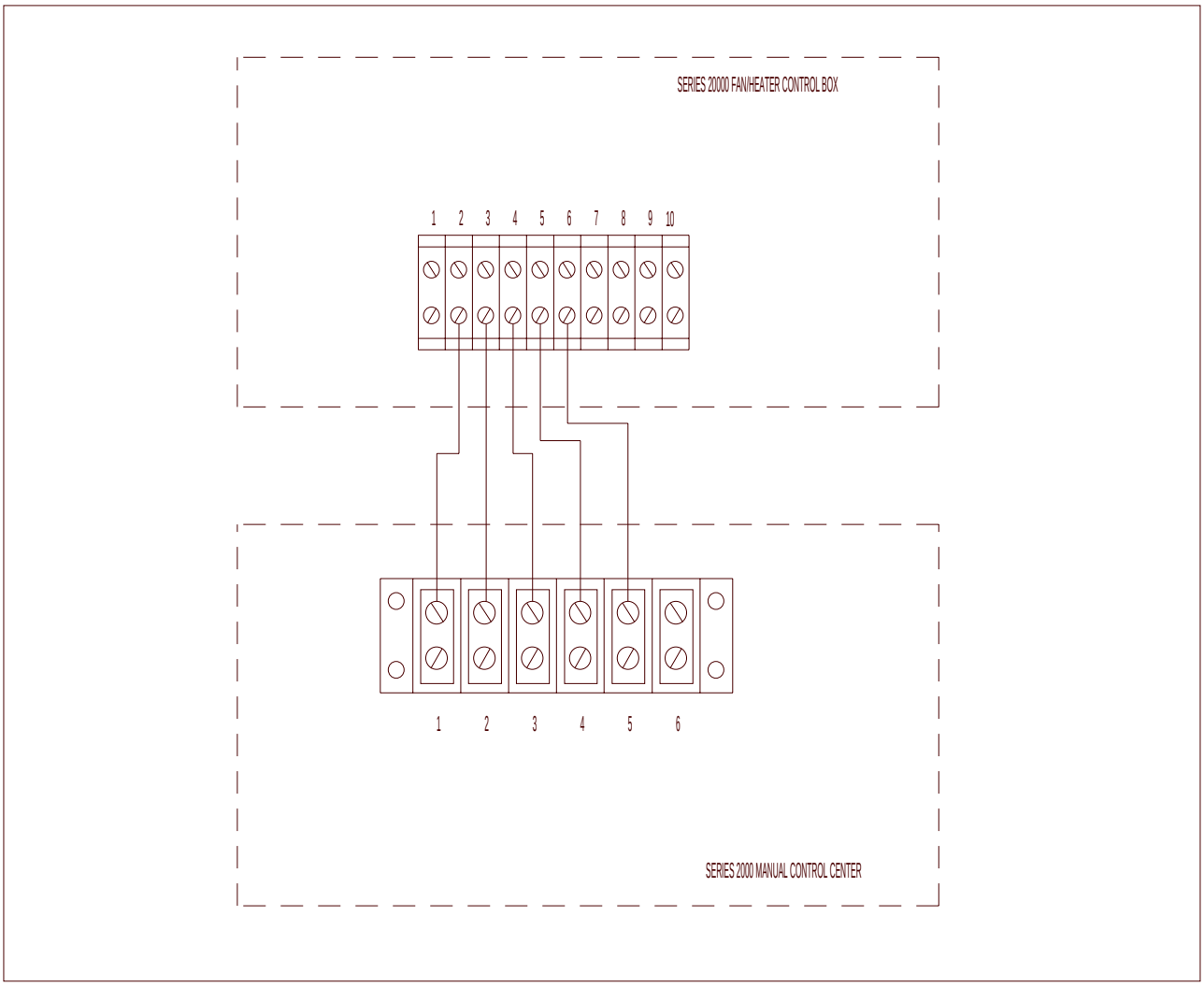
Pre-1997 Series 2000-Economy Control to Master Fan Interconnect



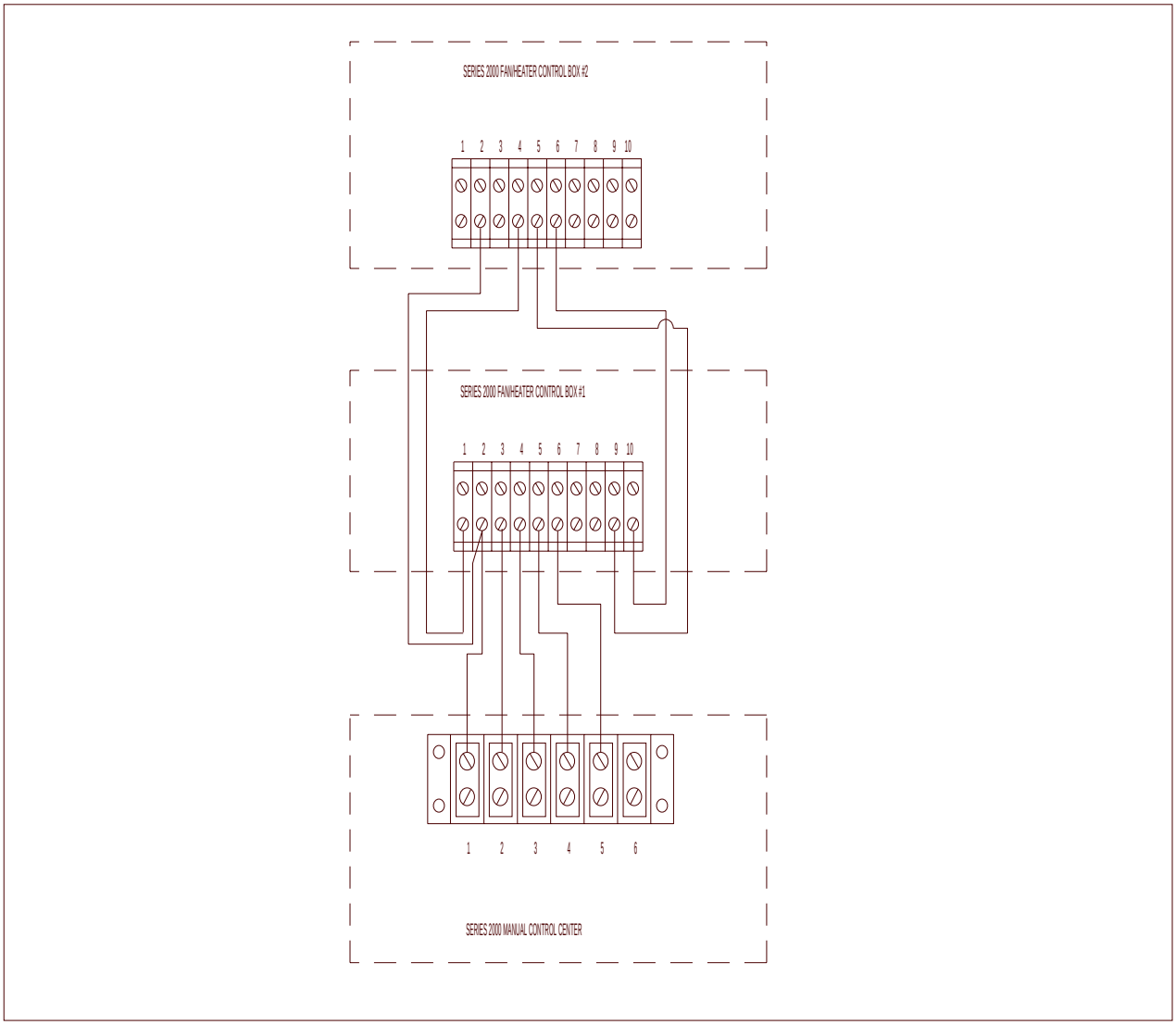
Pre-1997 Series 2000-Economy Control to Master Fan to Slave Fan Interconnect



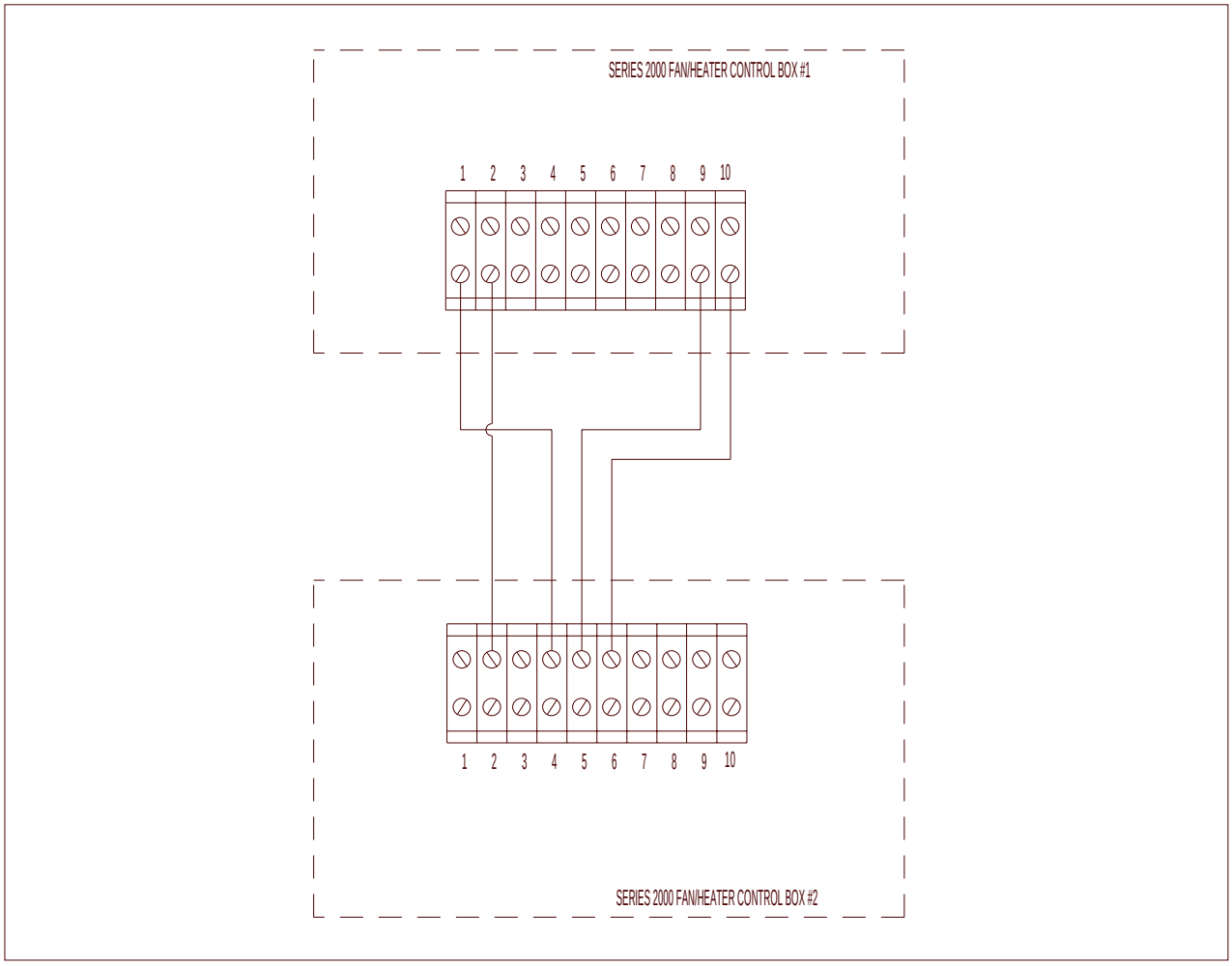
Pre-1997 Series 2000-Manual Control Center to Master Fan Interconnect



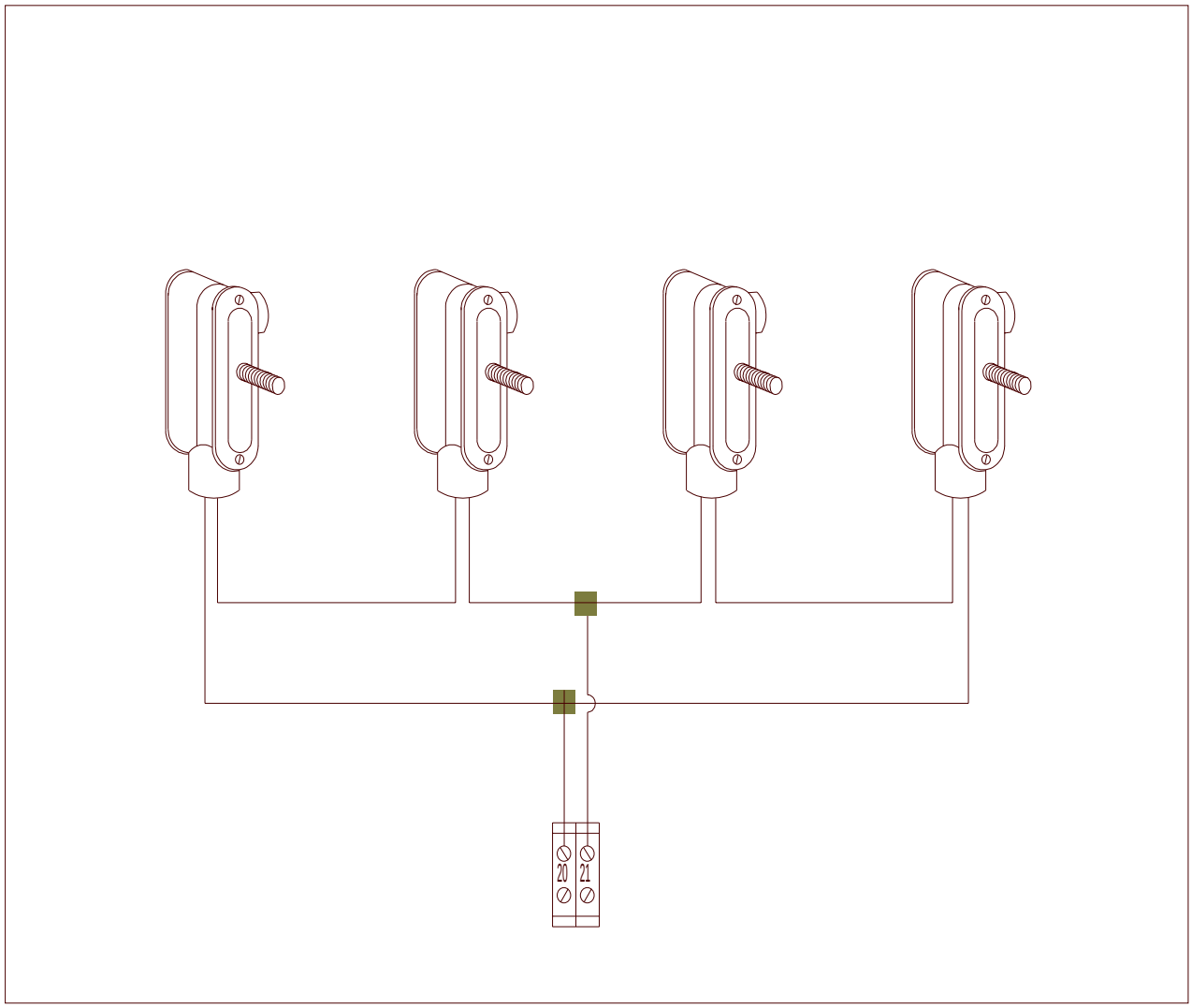
Pre-1997 Series 2000-Manual Control Center to Master Fan to Slave Fan Interconnect



Pre-1997 Series 2000-Master Fan to Slave Fan Interconnect



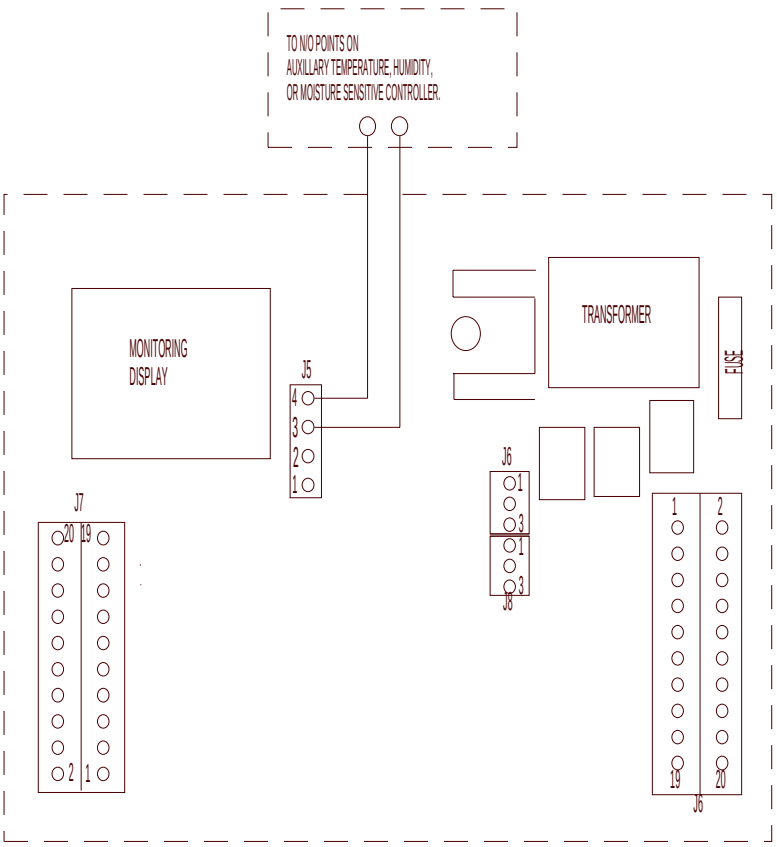
Pre-1997 Series 2000-Multi-Grain Temperature Sensor Wiring



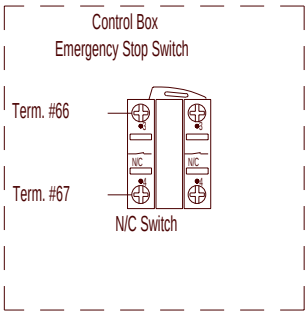
Pre-1997 Series 2000-Auxilliary Moisture Control to Master Fan Interconnect

TO CONTROL THE OPERATION OF THE FAN/HEATER FROM AN AUXILLARY MOISTURE, HUMIDITY, OR TEMPERATURE SENSITIVE CONTOLLER, INSTALL WIRES AS SHOWN. WHEN J5-3 AND J5-4 ARE LEFT IN AN OPEN STATE THE FAN/HEATER WILL OPERATE AS STATED IN THE OWNERS MANUAL. WHEN J5-3 AND J5-4 ARE SHORTED TOGETHER THE FAN/HEATER WILL IMMEDIATELY CONTINUE TO THE COOL CYCLE.

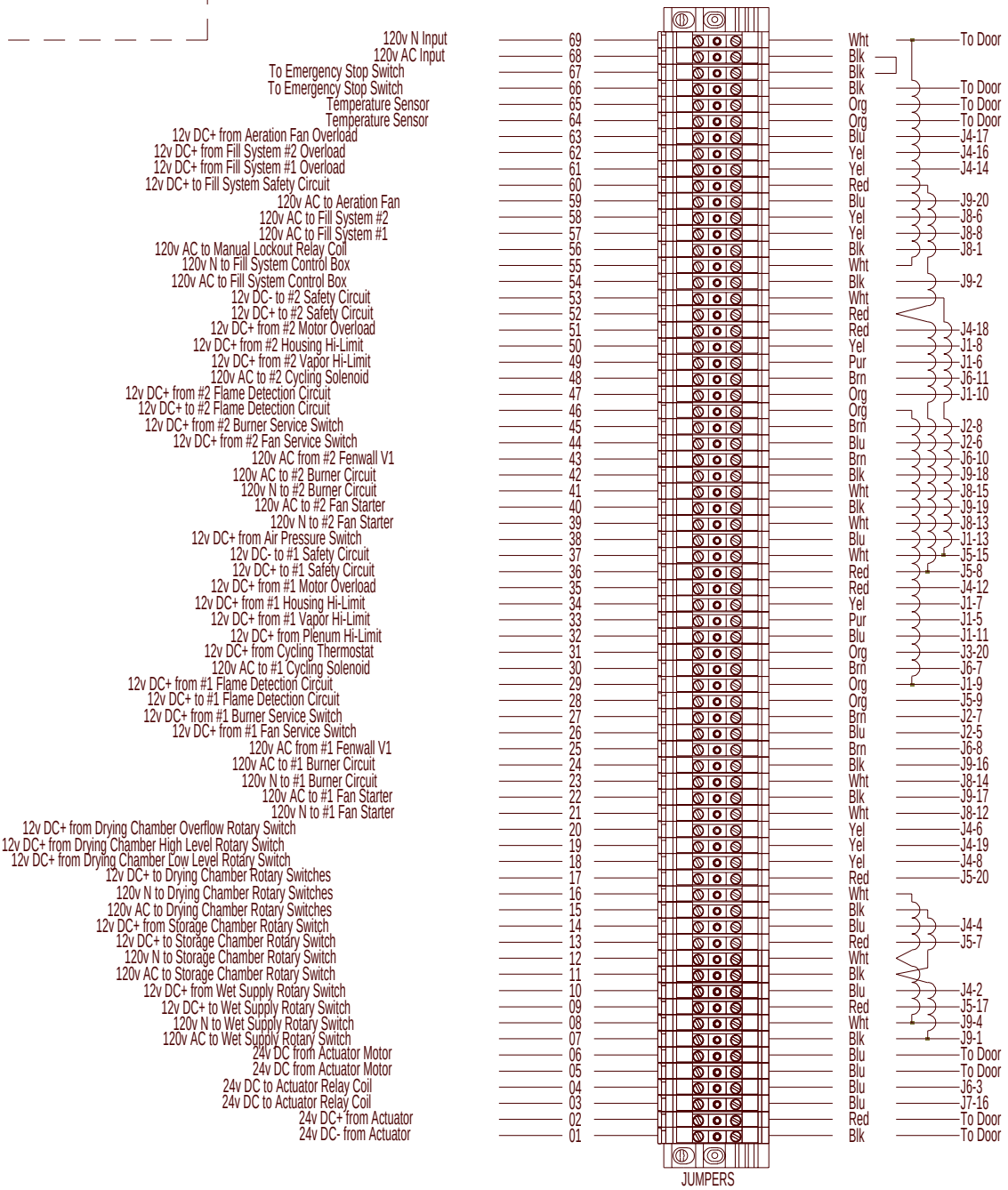
TO INSURE HIGH GRAIN QUALITY AND PREVENT OVERDRYING, THE TIME/TEMPERATURE SETTINGS ON THE SERIES 2000 SHOULD BE SET AT THE RECOMENDATIONS STATED IN THE SERIES 2000 OWNERS MANUAL.



1997 Autoflow

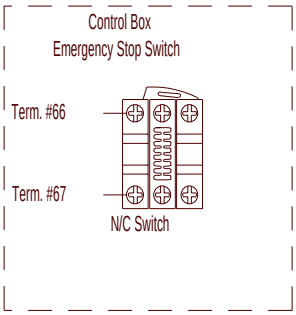


1997 Autoflow-Terminal Strip



Jump Together:
Terminals #46 to #47
&
Terminals #35 to #51
in Single Fan Units.

Term. #69 to Term. #55
Term. #68 to Term. #67
Term. #60 to Term. #52
Term. #53 to Term. #37
Term. #52 to Term. #36
Term. #46 to Term. #29
Term. #16 to Term. #12
Term. #15 to Term. #11
Term. #12 to Term. #08
Term. #11 to Term. #07



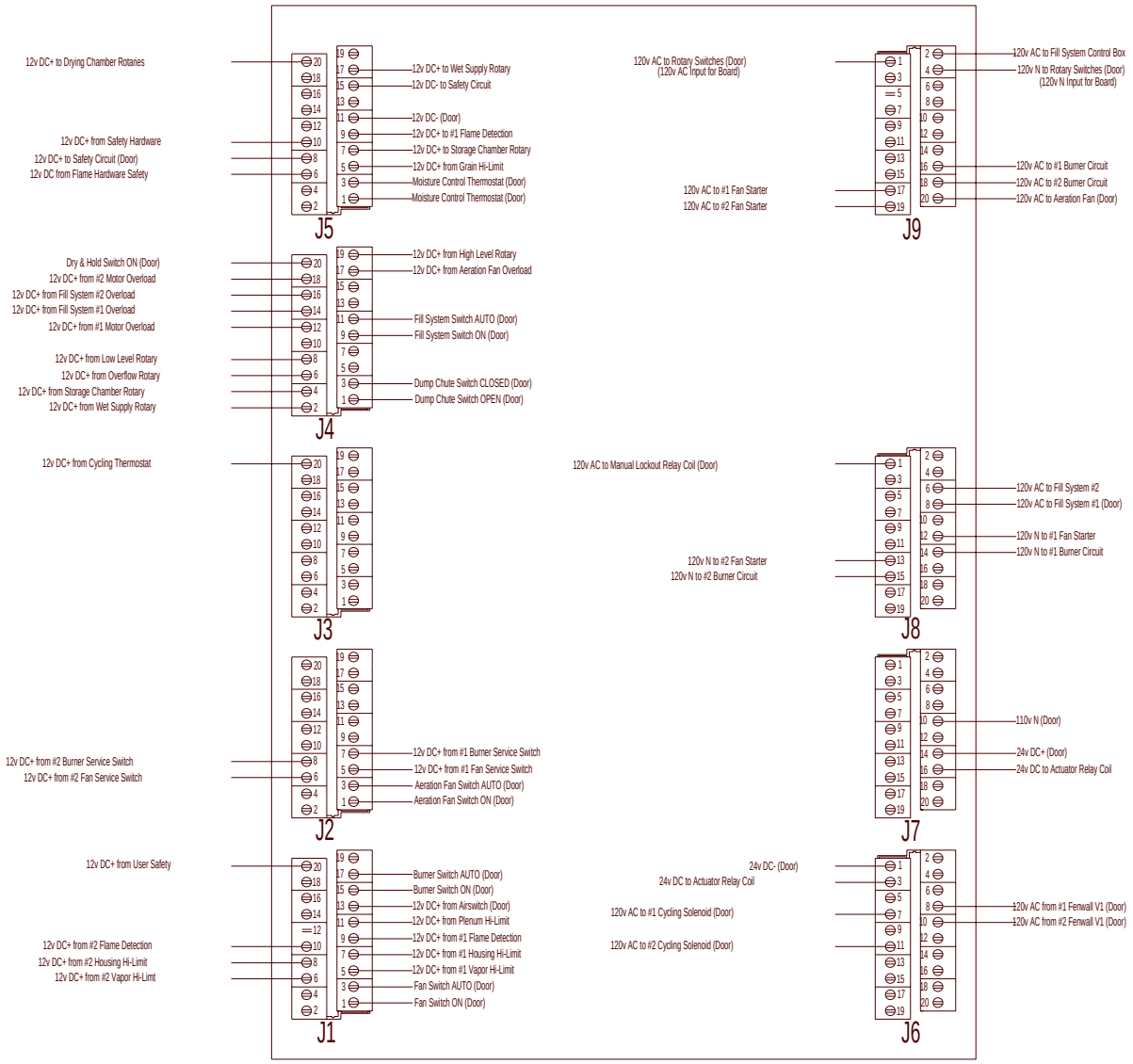
1997 Autoflow-Terminal Strip

Jump Together:
Terminals #46 to #47
&
Terminals #35 to #51
in Single Fan Units.

JUMPERS
Term. #69 to Term. #55
Term. #68 to Term. #67
Term. #60 to Term. #52
Term. #53 to Term. #37
Term. #52 to Term. #36
Term. #46 to Term. #29
Term. #16 to Term. #12
Term. #15 to Term. #11
Term. #12 to Term. #08
Term. #11 to Term. #07

Power	120v N Input	69	Wht	To Door	
	120v AC Input	68	Blk		
	To Emergency Stop Switch	67	Blk		
	To Emergency Stop Switch	66	Blk	To Door	
Temp. Sensors	Temperature Sensor	65	Org	To Door	
	Temperature Sensor	64	Org	To Door	
Fill System Box	12v DC+ from Aeration Fan Overload	63	Blu	J4-17	
	12v DC+ from Fill System #2 Overload	62	Yel	J4-16	
	12v DC+ from Fill System #1 Overload	61	Yel	J4-14	
	12v DC+ to Fill System Safety Circuit	60	Red		
	120v AC to Aeration Fan	59	Blu	J9-20	
	120v AC to Fill System #2	58	Yel	J8-6	
	120v AC to Fill System #1	57	Yel	J8-8	
	120v AC to Manual Lockout Relay Coil	56	Blk	J8-1	
	120v N to Fill System Control Box	55	Wht		
	120v AC to Fill System Control Box	54	Blk	J9-2	
Fan #2	12v DC- to #2 Safety Circuit	53	Wht		
	12v DC+ to #2 Safety Circuit	52	Red		
	12v DC+ from #2 Motor Overload	51	Red	J4-18	
	12v DC+ from #2 Housing Hi-Limit	50	Yel	J1-8	
	12v DC+ from #2 Vapor Hi-Limit	49	Pur	J1-6	
	120v AC to #2 Cycling Solenoid	48	Brn	J6-11	
	12v DC+ from #2 Flame Detection Circuit	47	Org	J1-10	
	12v DC+ to #2 Flame Detection Circuit	46	Org		
	12v DC+ from #2 Burner Service Switch	45	Brn	J2-8	
	12v DC+ from #2 Fan Service Switch	44	Blu	J2-6	
	120v AC from #2 Fenwall V1	43	Brn	J6-10	
	120v AC to #2 Burner Circuit	42	Blk	J9-18	
	120v N to #2 Burner Circuit	41	Wht	J8-15	
	120v AC to #2 Fan Starter	40	Blk	J9-19	
	120v N to #2 Fan Starter	39	Wht	J8-13	
Fan #1	12v DC+ from Air Pressure Switch	38	Blu	J1-13	
	12v DC- to #1 Safety Circuit	37	Wht	J5-15	
	12v DC+ to #1 Safety Circuit	36	Red	J5-8	
	12v DC+ from #1 Motor Overload	35	Red	J4-12	
	12v DC+ from #1 Housing Hi-Limit	34	Yel	J1-7	
	12v DC+ from #1 Vapor Hi-Limit	33	Pur	J1-5	
	12v DC+ from Plenum Hi-Limit	32	Blu	J1-11	
	12v DC+ from Cycling Thermostat	31	Org	J3-20	
	120v AC to #1 Cycling Solenoid	30	Brn	J6-7	
	12v DC+ from #1 Flame Detection Circuit	29	Org	J1-9	
	12v DC+ to #1 Flame Detection Circuit	28	Org	J5-9	
	12v DC+ from #1 Burner Service Switch	27	Brn	J2-7	
	12v DC+ from #1 Fan Service Switch	26	Blu	J2-5	
	120v AC from #1 Fenwall V1	25	Brn	J6-8	
	120v AC to #1 Burner Circuit	24	Blk	J9-16	
	120v N to #1 Burner Circuit	23	Wht	J8-14	
	120v AC to #1 Fan Starter	22	Blk	J9-17	
	120v N to #1 Fan Starter	21	Wht	J8-12	
Rotary Switches	12v DC+ from Drying Chamber Overflow Rotary Switch	20	Yel	J4-6	
	12v DC+ from Drying Chamber High Level Rotary Switch	19	Yel	J4-19	
	12v DC+ from Drying Chamber Low Level Rotary Switch	18	Yel	J4-8	
	12v DC+ to Drying Chamber Rotary Switches	17	Red	J5-20	
	120v N to Drying Chamber Rotary Switches	16	Wht		
	120v AC to Drying Chamber Rotary Switches	15	Blk		
	12v DC+ from Storage Chamber Rotary Switch	14	Blu	J4-4	
	12v DC+ to Storage Chamber Rotary Switch	13	Red	J5-7	
	120v N to Storage Chamber Rotary Switch	12	Wht		
	120v AC to Storage Chamber Rotary Switch	11	Blk		
	12v DC+ from Wet Supply Rotary Switch	10	Blu	J4-2	
	12v DC+ to Wet Supply Rotary Switch	09	Red	J5-17	
	120v N to Wet Supply Rotary Switch	08	Wht	J9-4	
	120v AC to Wet Supply Rotary Switch	07	Blk	J9-1	
Actuator	24v DC from Actuator Motor	06	Blu	To Door	
	24v DC from Actuator Motor	05	Blu	To Door	
	24v DC to Actuator Relay Coil	04	Blu	J6-3	
	24v DC to Actuator Relay Coil	03	Blu	J7-16	
	24v DC+ from Actuator	02	Red	To Door	
	24v DC- from Actuator	01	Blk	To Door	

1997 Autoflow-Input/Output Board



Wire Colors
To Terminal Strip

J1-5 Pur
J1-6 Pur
J1-7 Yel
J1-8 Yel
J1-9 Org
J1-10 Org
J1-11 Blu
J1-13 Blu
J2-5 Blu
J2-6 Blu
J2-7 Brn
J2-8 Brn
J3-20 Org
J4-2 Blu
J4-4 Blu
J4-6 Yel
J4-8 Yel
J4-12 Red
J4-14 Yel
J4-16 Yel
J4-17 Blu
J4-18 Red
J4-19 Yel
J5-7 Red
J5-8 Red
J5-9 Org
J5-15 Wht
J5-17 Red
J5-20 Red
J6-3 Blu
J6-7 Brn
J6-8 Brn
J6-10 Brn
J6-11 Brn
J7-16 Blu
J8-1 Blk
J8-8 Yel
J8-8 Yel
J8-12 Wht
J8-13 Wht
J8-14 Wht
J8-15 Wht
J9-1 Blk
J9-2 Blk
J9-4 Wht
J9-16 Blk
J9-17 Blk
J9-18 Blk
J9-19 Blk
J9-20 Blu

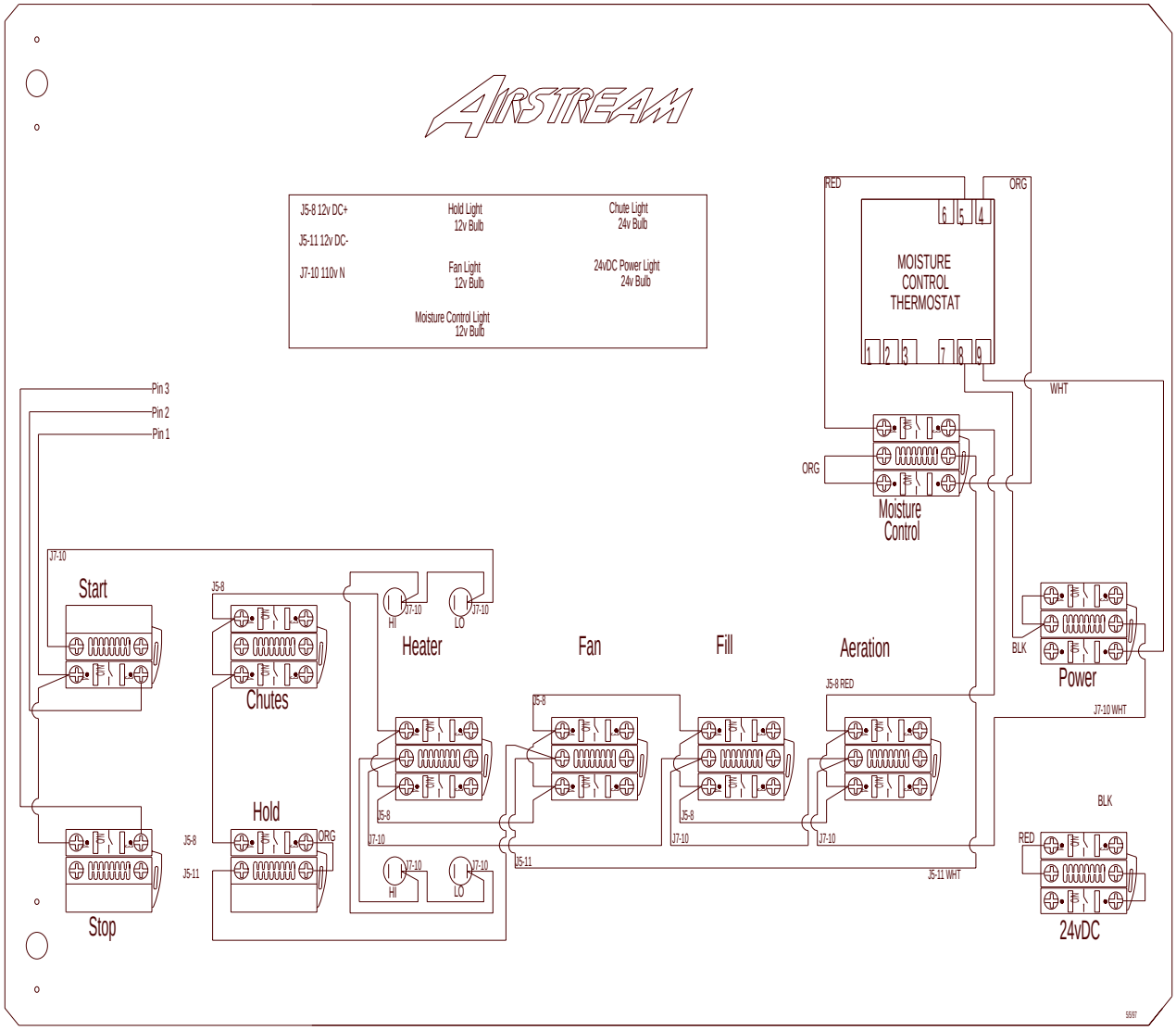
Wire Colors
To Door

J1-1 Blu
J1-3 Blu
J1-13 Blu
J1-15 Blk
J1-17 Blk
J2-1 Blu
J2-3 Blu
J4-1 Org
J4-3 Org
J4-9 Yel
J4-11 Yel
J4-20 Org
J5-1 Org
J5-3 Org
J5-8 Red
J5-11 Wht
J6-1 Blk
J6-7 Brn
J6-8 Brn
J6-10 Brn
J6-11 Brn
J7-10 Wht
J7-14 Red
J8-1 Blk
J8-8 Yel
J9-1 Blk
J9-4 Wht
J9-20 Blu

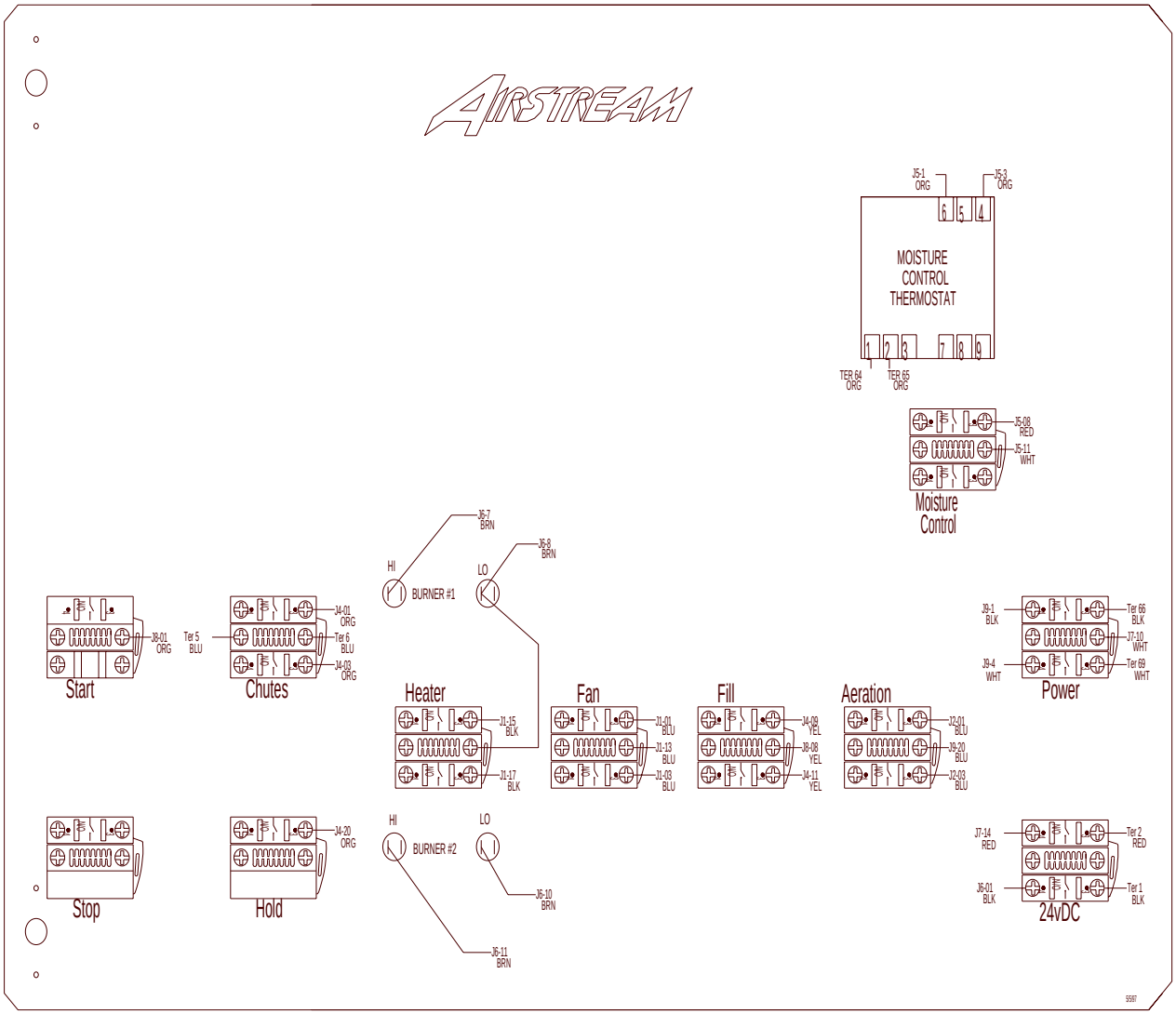
Jumpers:

J1-10 to J5-6 (Red)
J4-18 to J5-10 (Red)
J1-20 to J5-5 (Red)
J5-9 to J5-5 (Red)
J6-2 to J7-15 (Blu)
J6-4 to J7-14 (Blu)
J7-13 to J6-3 (Blu)

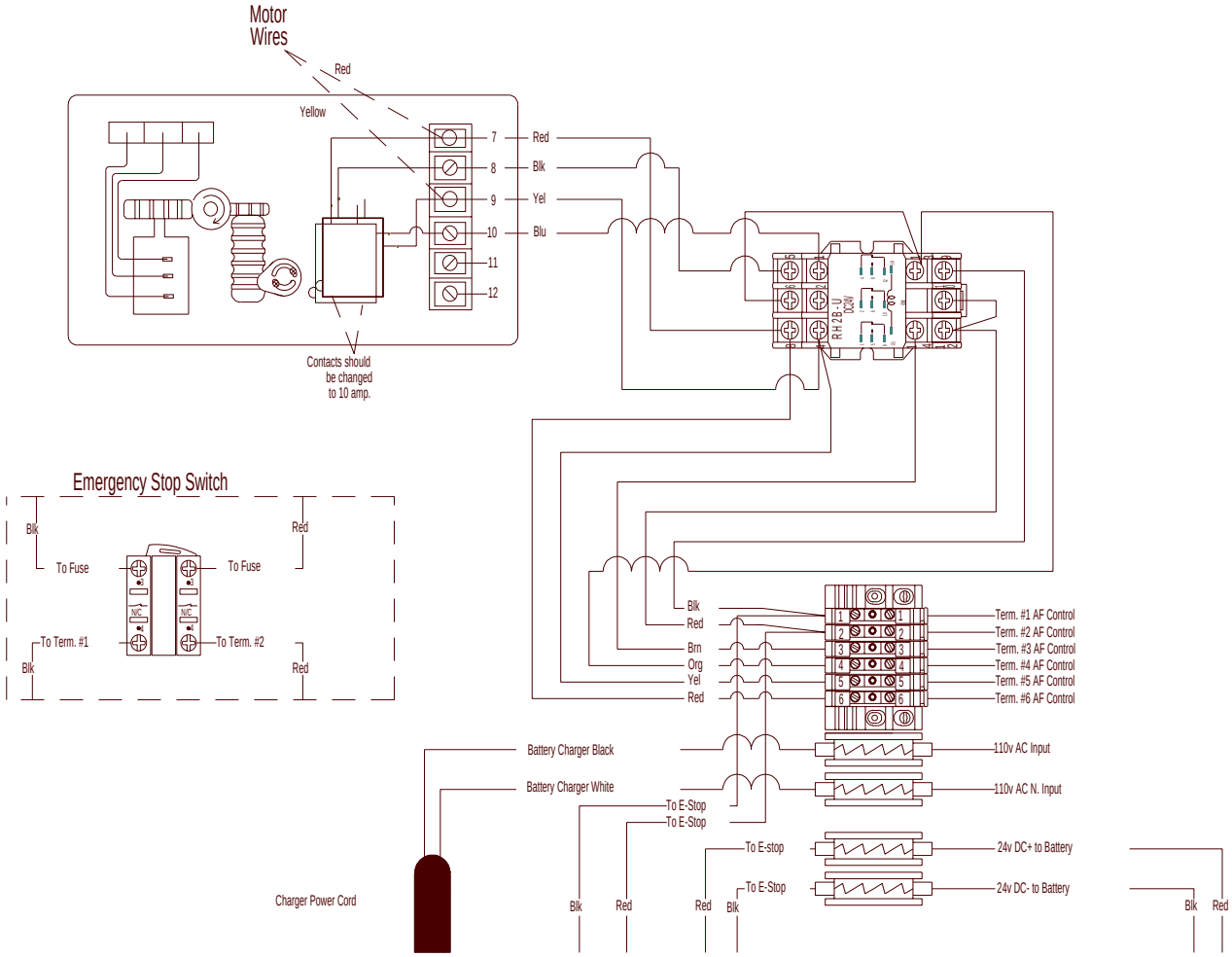
1997 Autoflow-Front Panel Internal Wiring



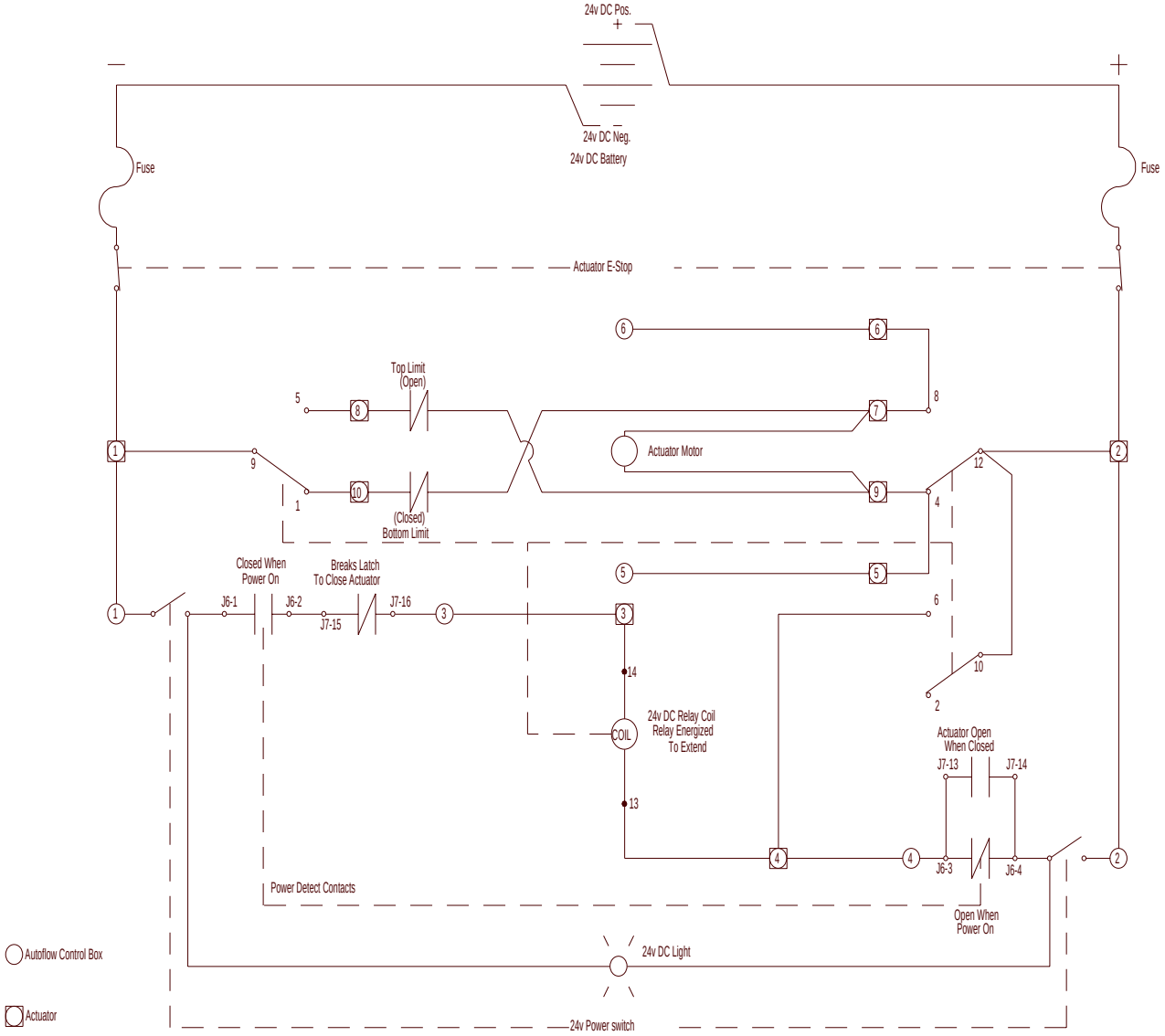
1997 Autoflow-Front Panel External Wiring



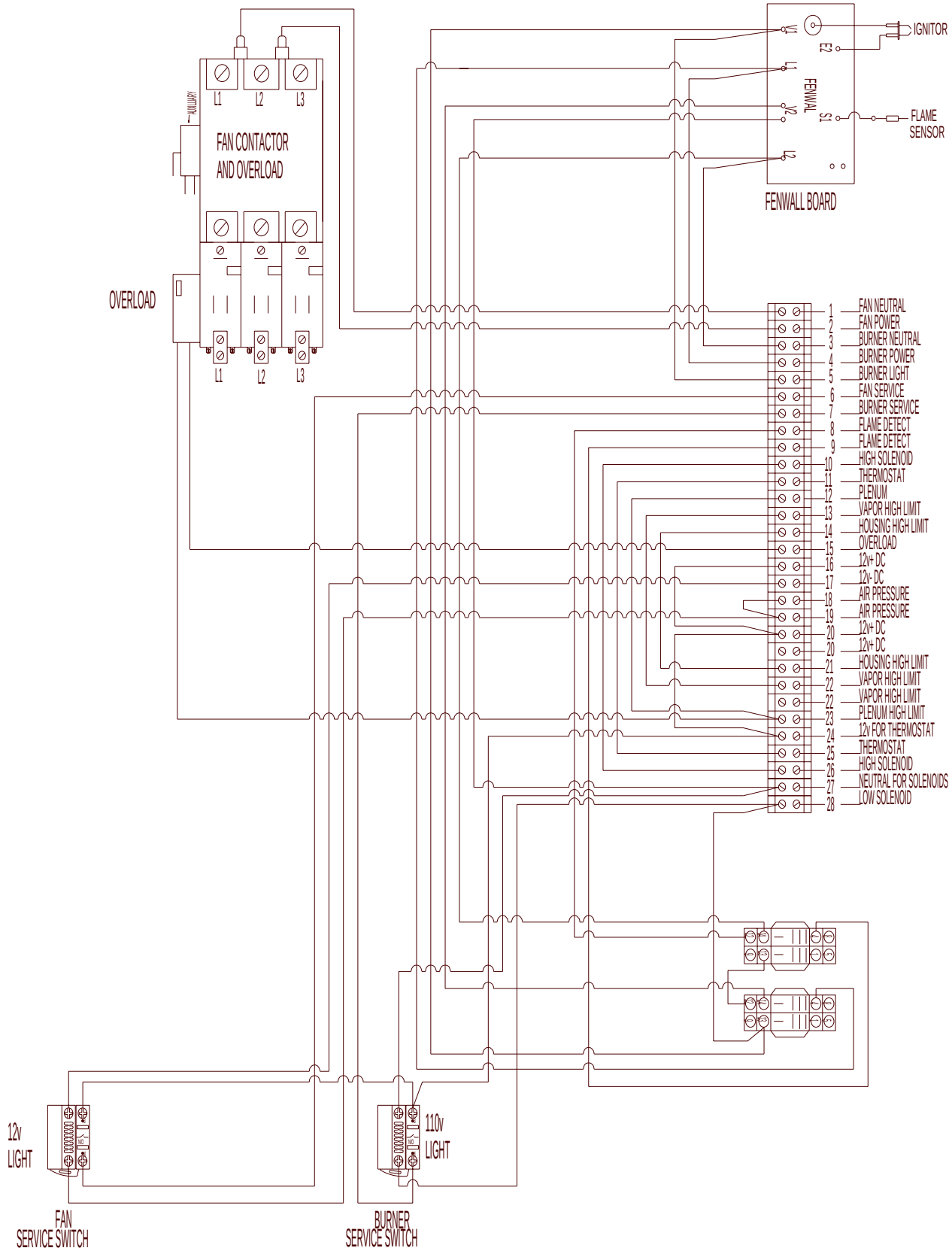
1997 Autoflow-Actuator Wiring



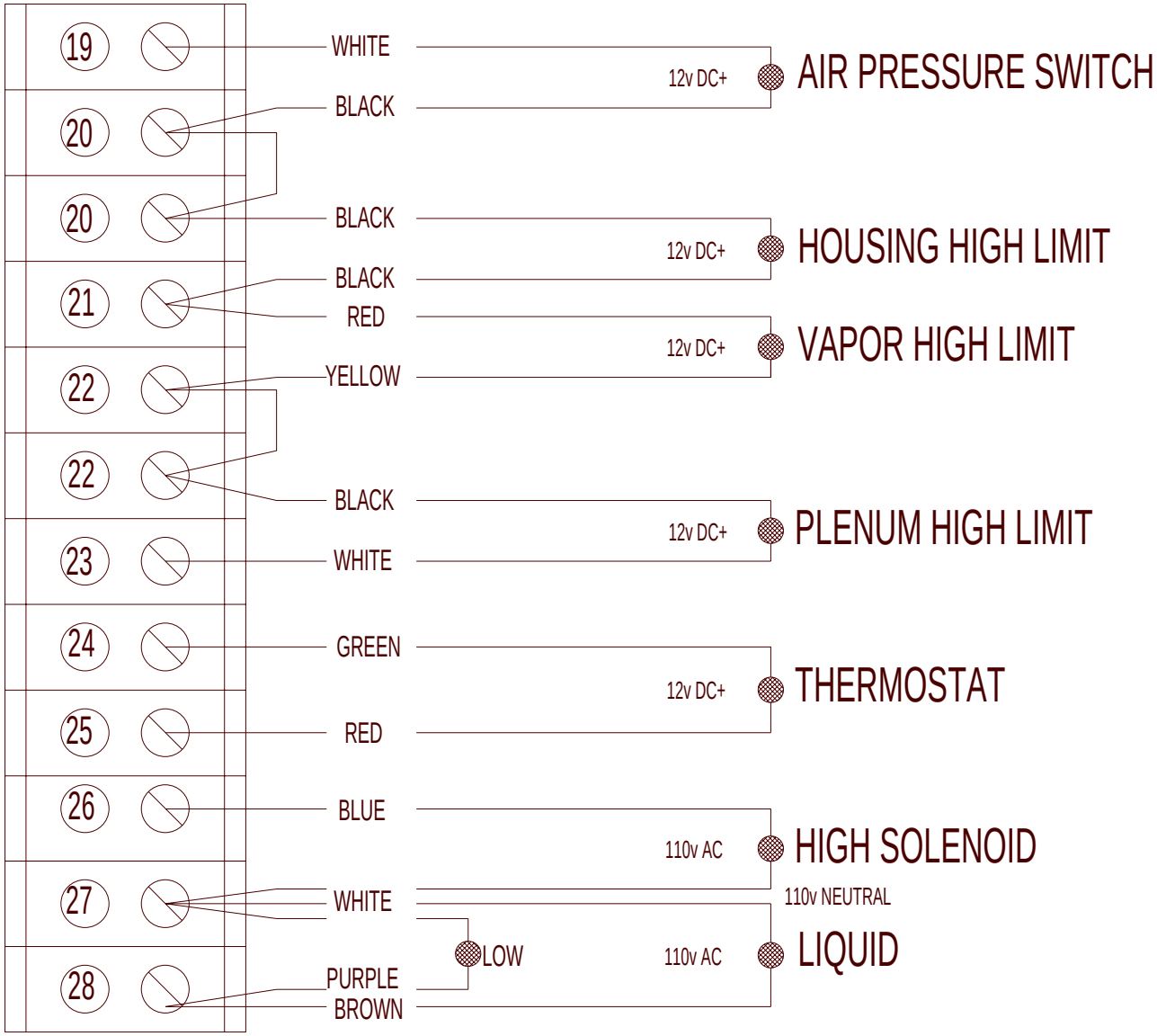
1997 Autoflow-Actuator 24v Circuit



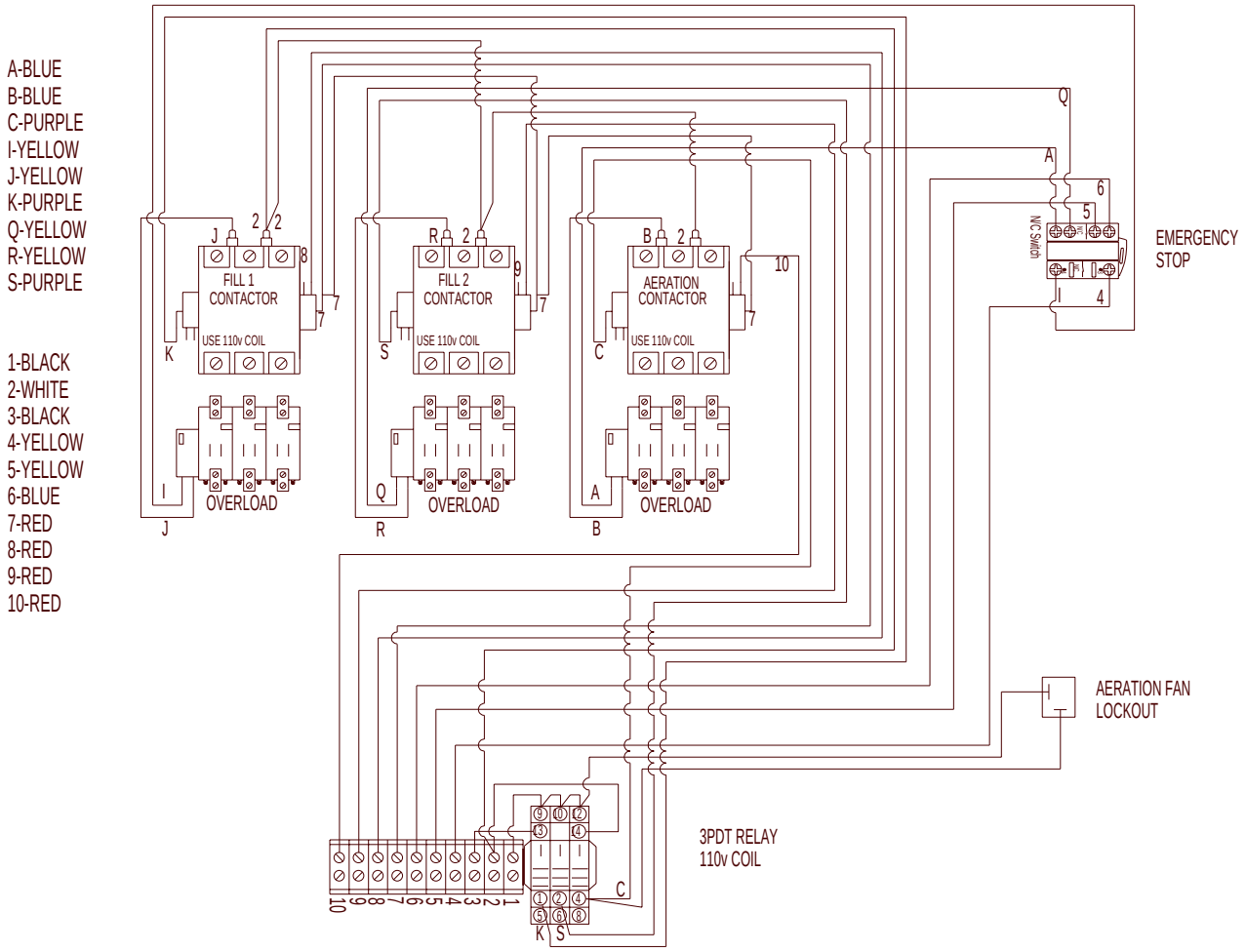
1997 Autoflow-Fan/Heater Internal Wiring



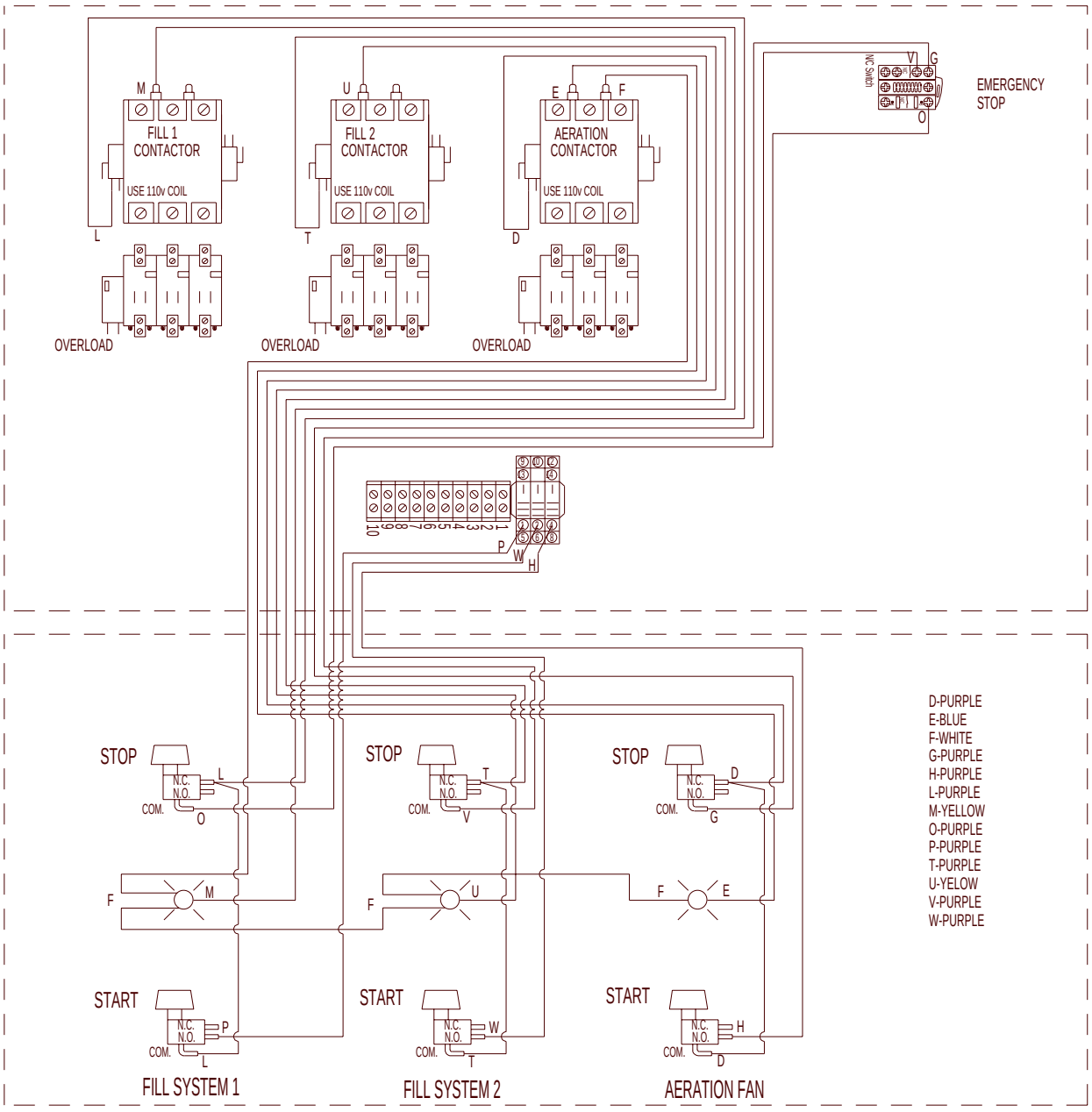
1997 Autoflow-Fan/Heater External Wiring



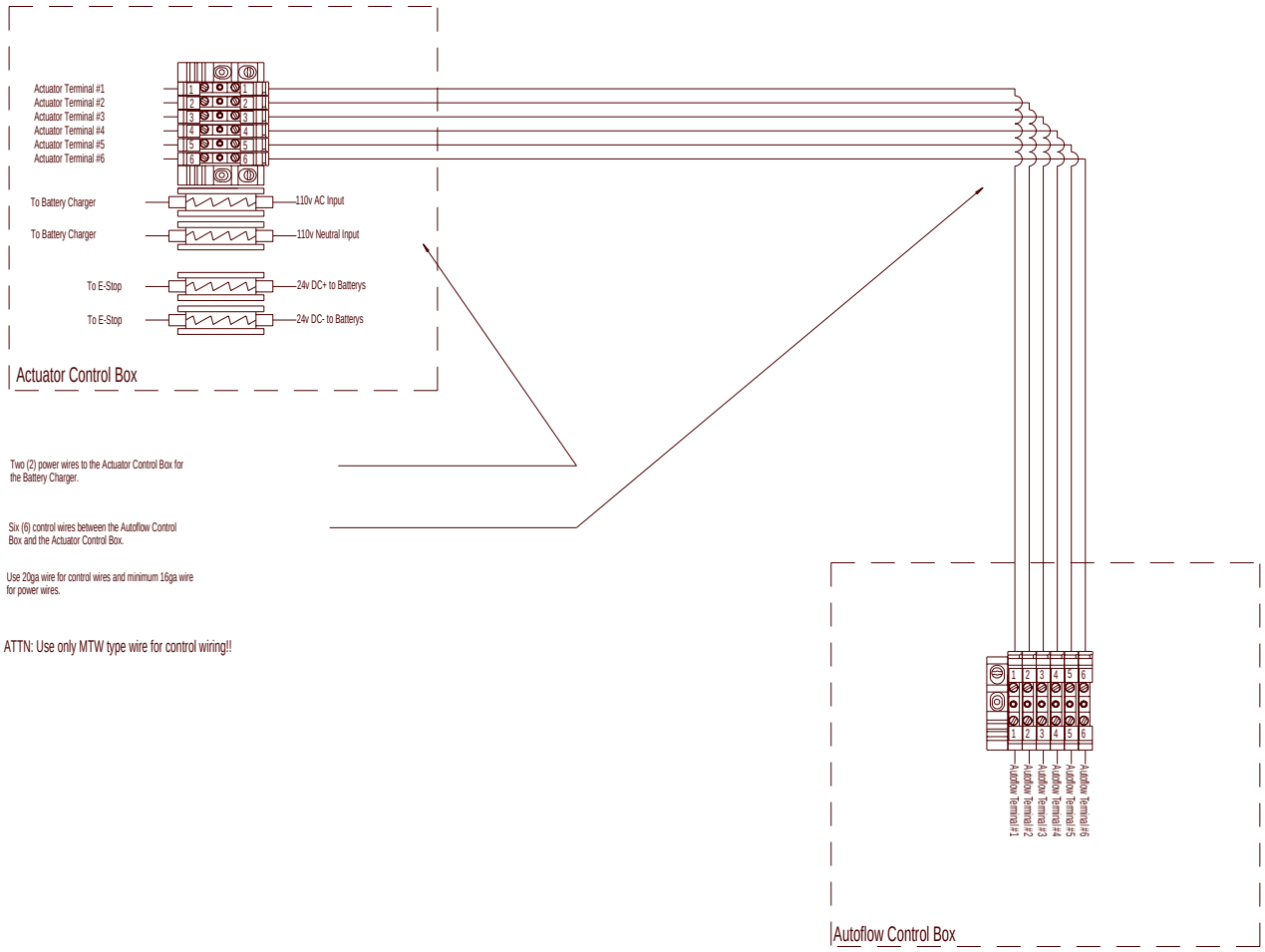
1997 Autoflow-Fill System Control Box Internal Wiring



1997 Autoflow-Fill System Control Box External Wiring



1997 Autoflow-Autoflow to Actuator Interconnect



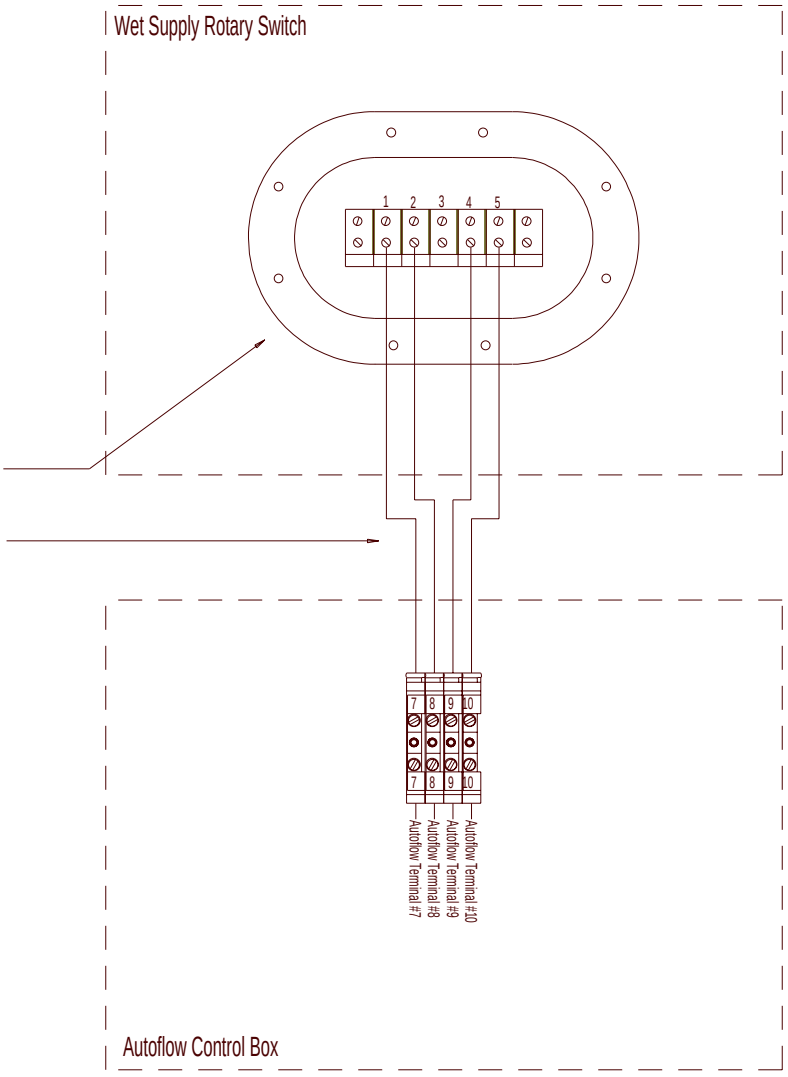
1997 Autoflow-Autoflow to Wet Supply Rotary Switch Interconnect

Wet Supply Rotary Switch mounted in the side of the wet grain holding tank.

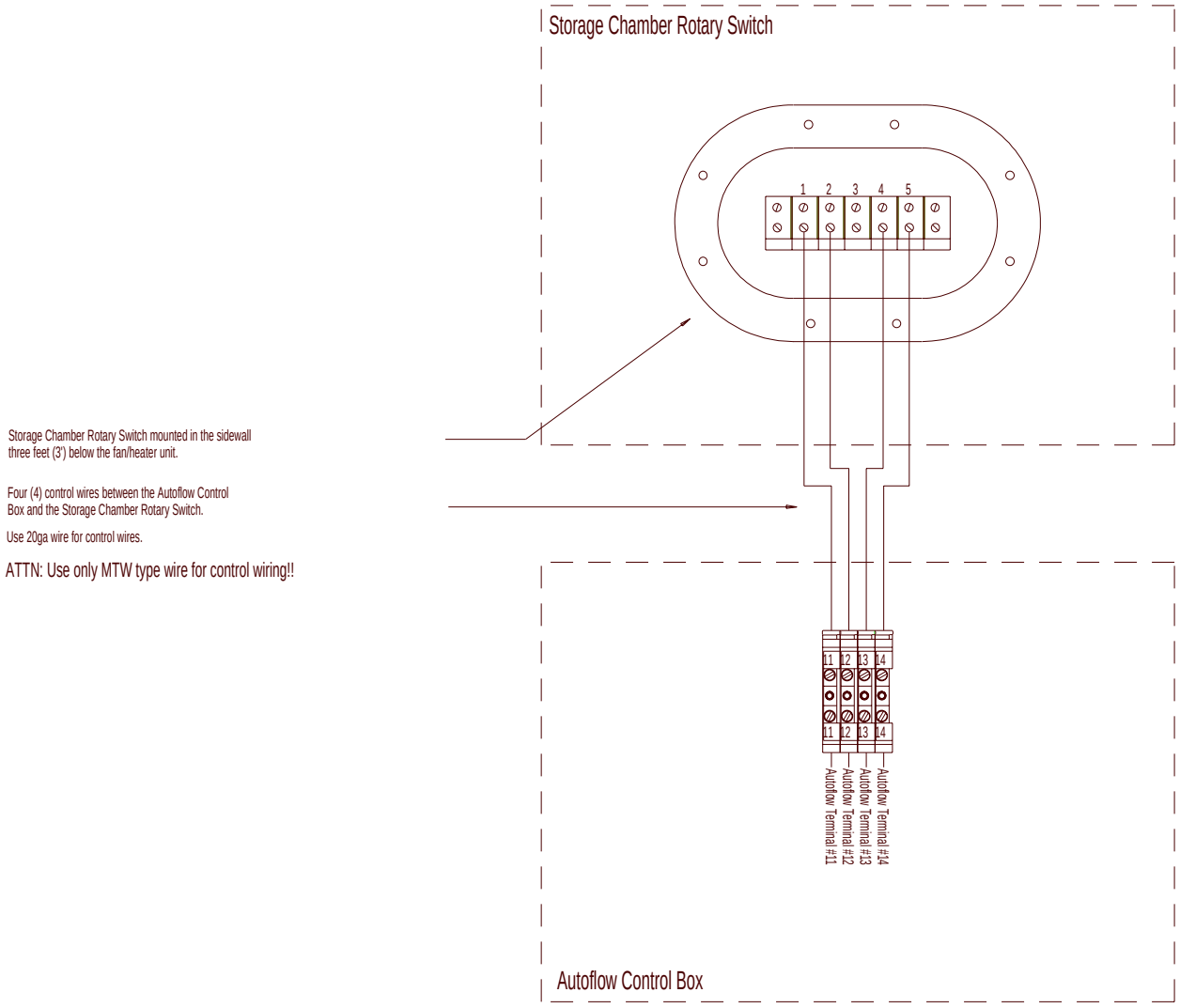
Four (4) control wires between the Autoflow Control Box and the Wet Supply Rotary Switch.

Use 20ga wire for control wires.

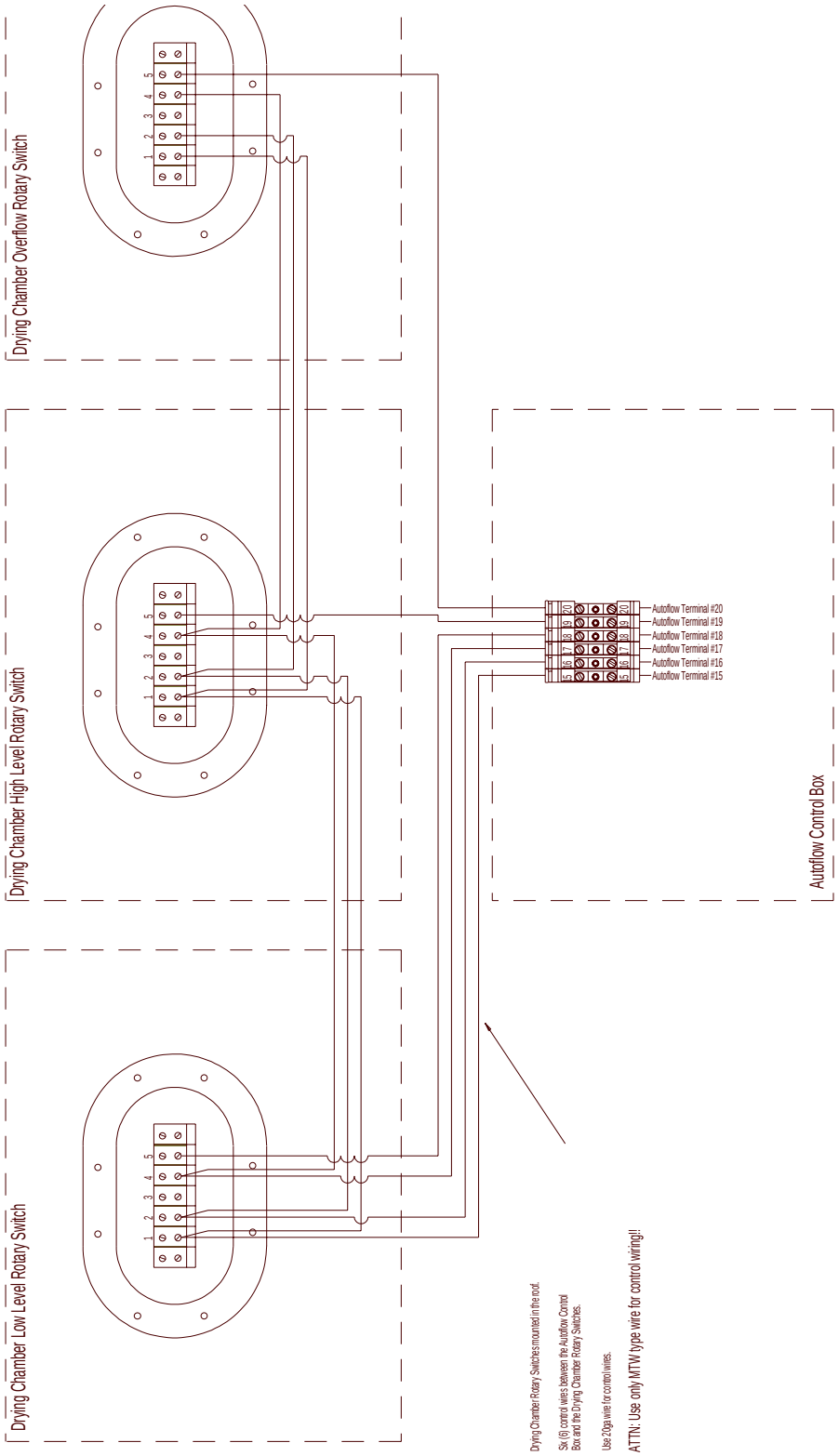
ATTN: Use only MTW type wire for control wiring!!



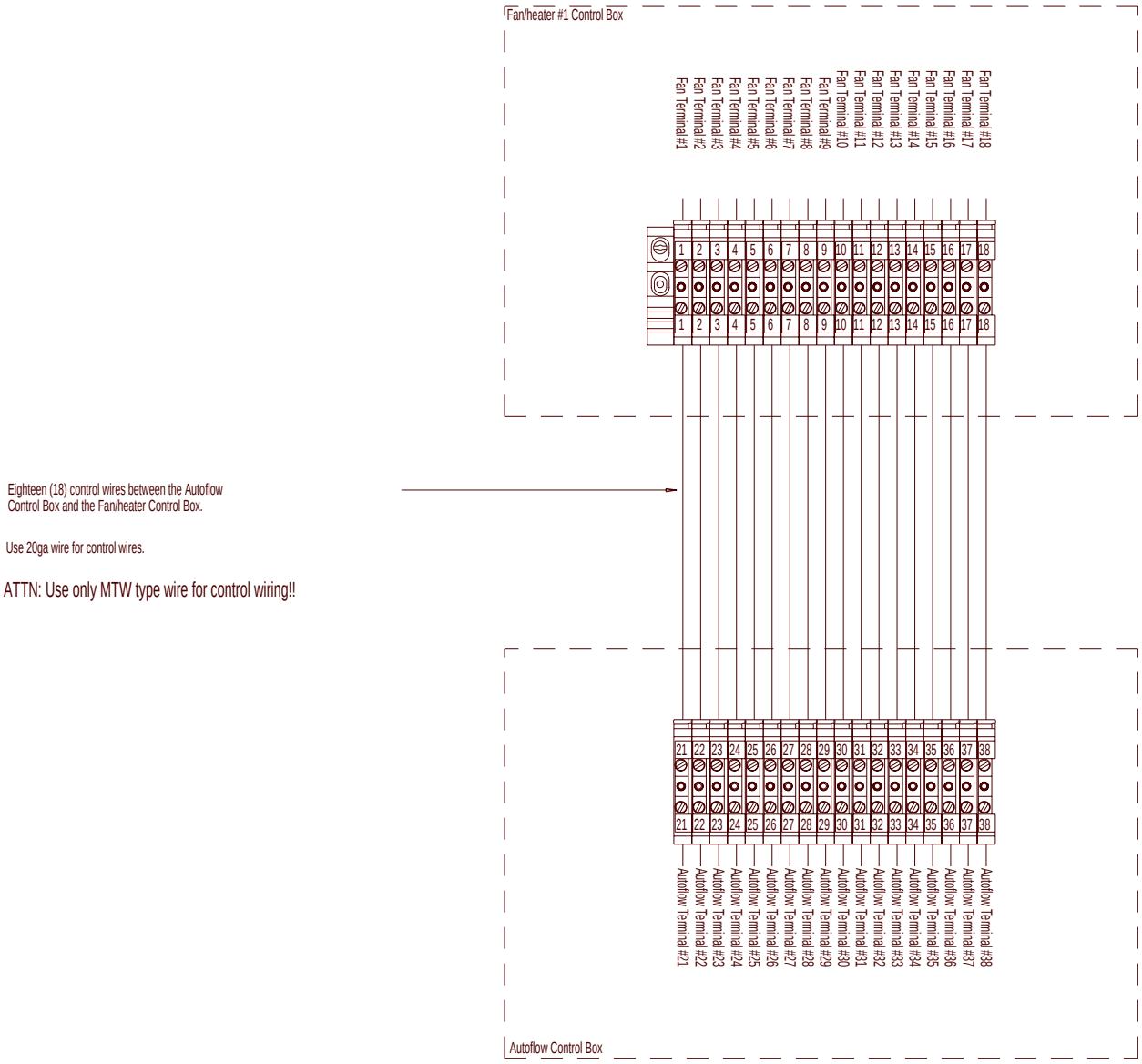
1997 Autoflow-Autofow to Storage Chamber Rotary Switch Interconnect



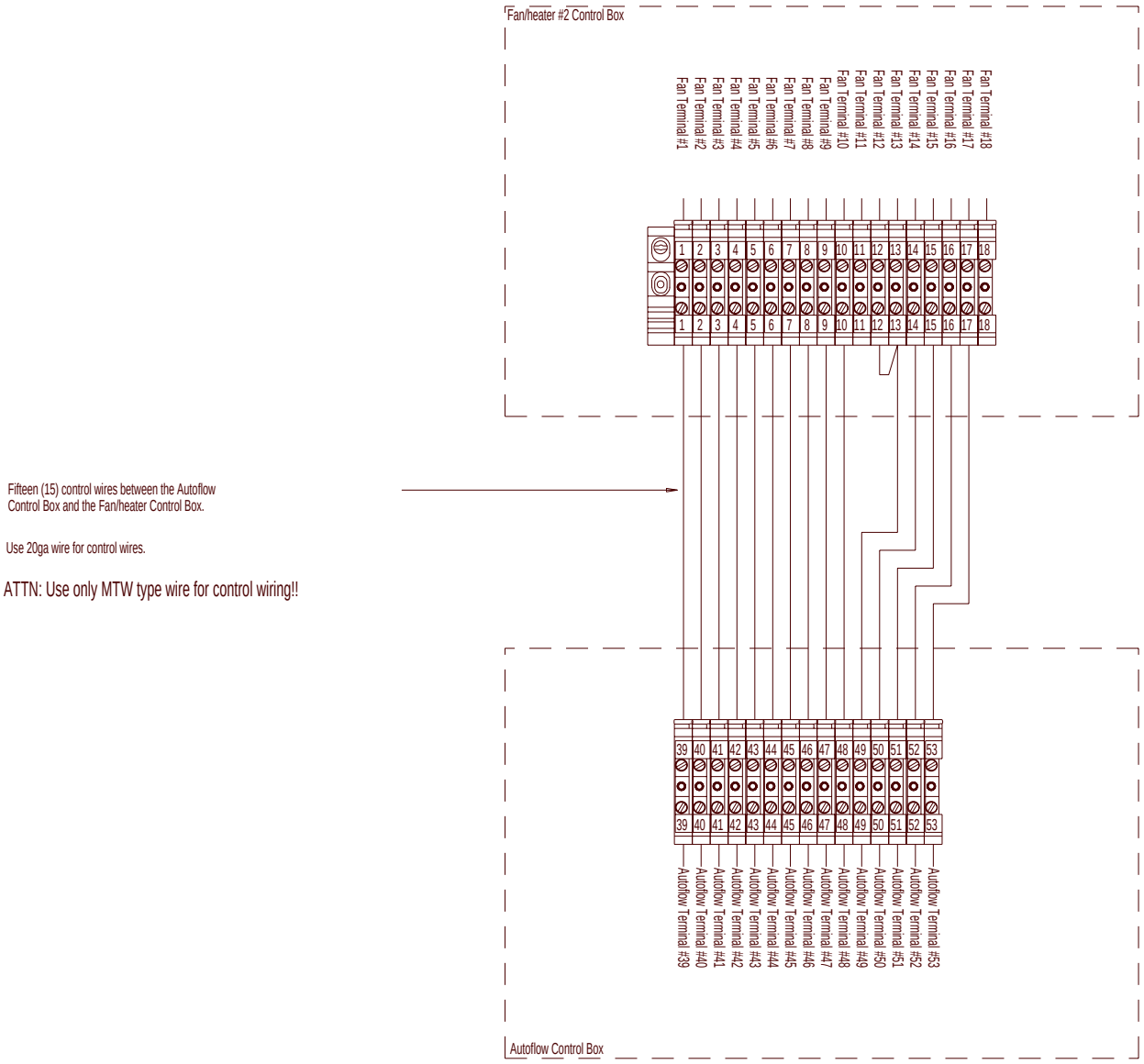
1997 Autoflow-Autoflow to Drying Chamber Rotary Switches Interconnect



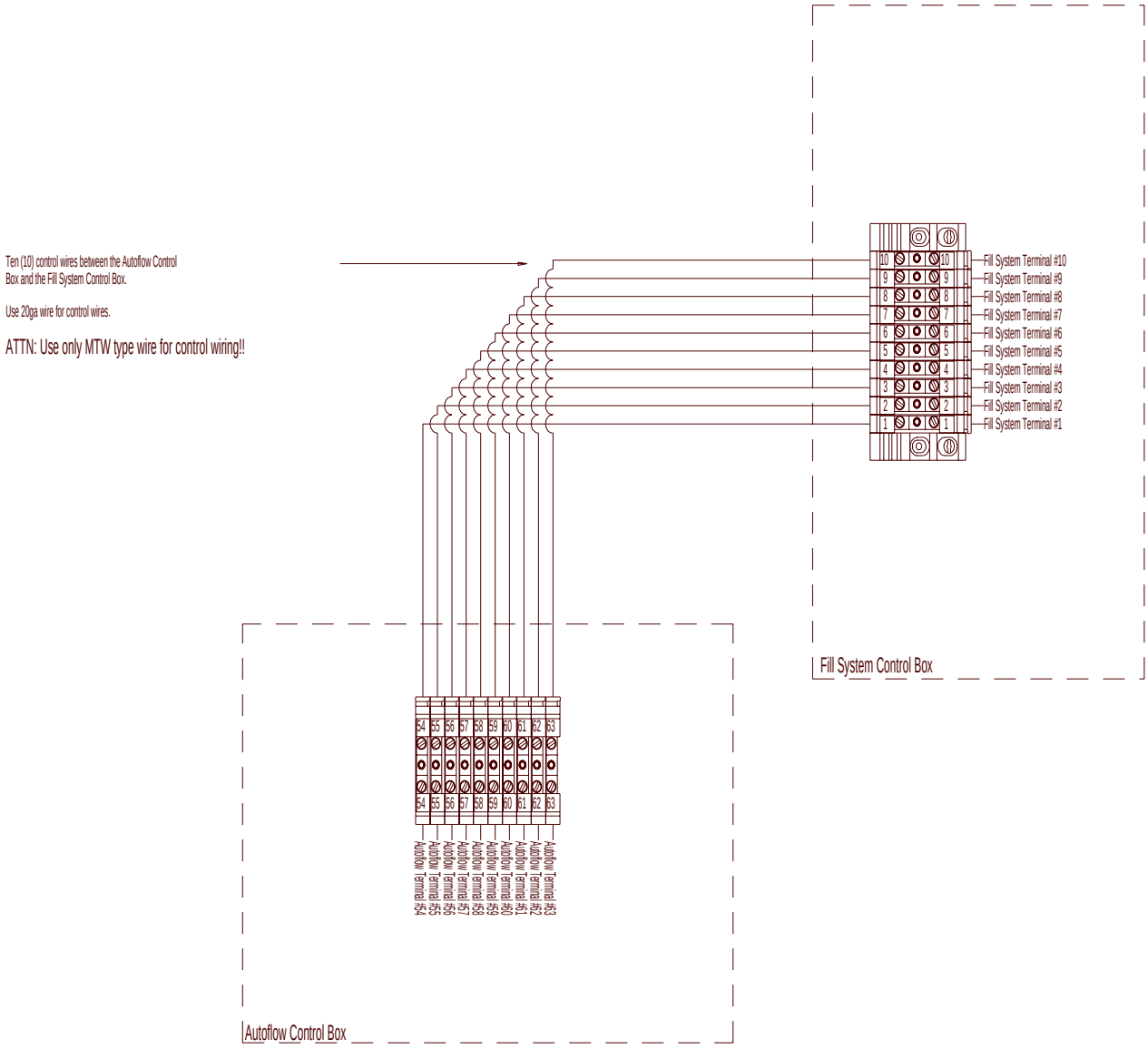
1997 Autoflow-Autoflow to Master Fan/Heater Interconnect



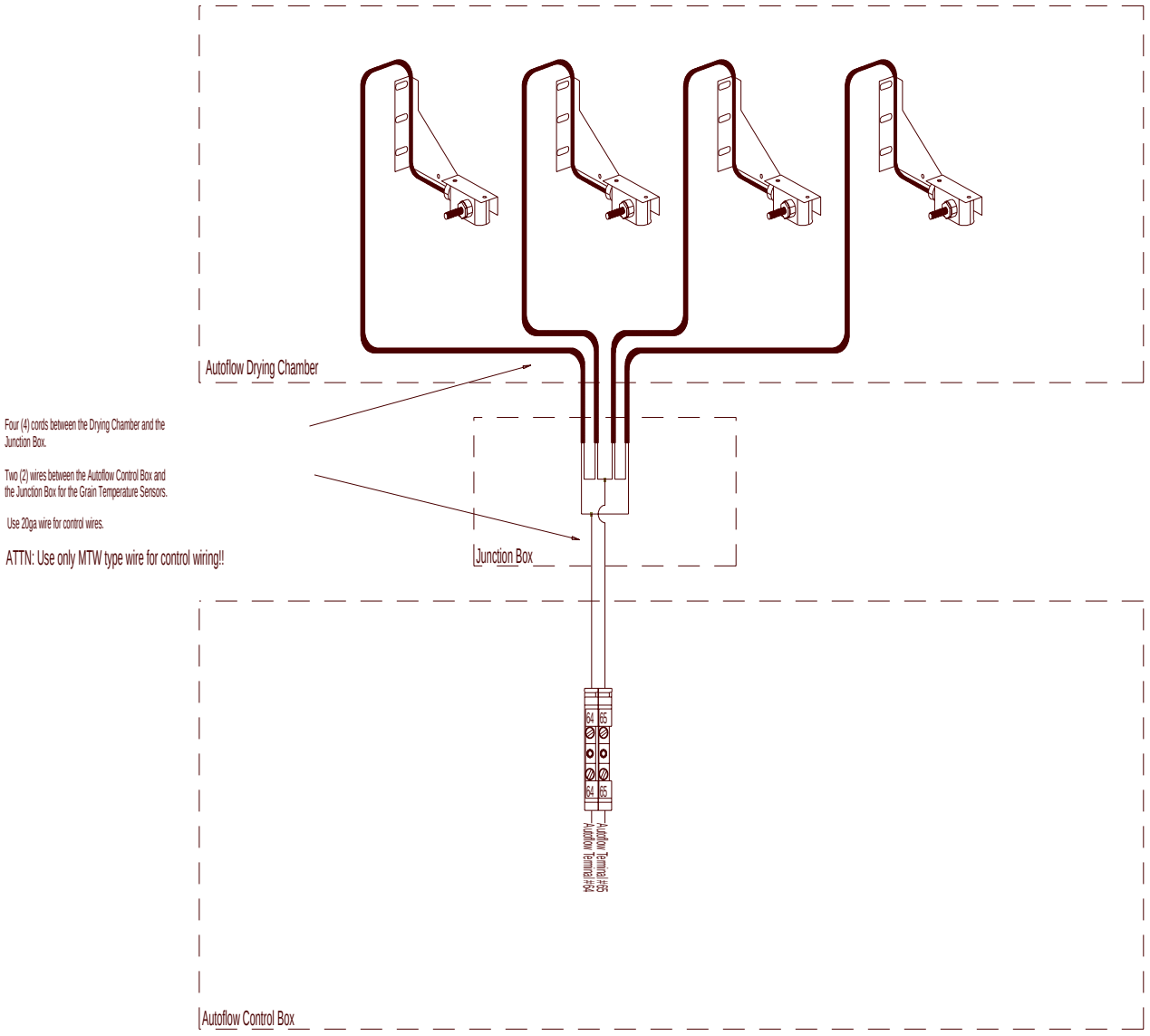
1997 Autoflow-Autoflow to Slave Fan/Heater Interconnect



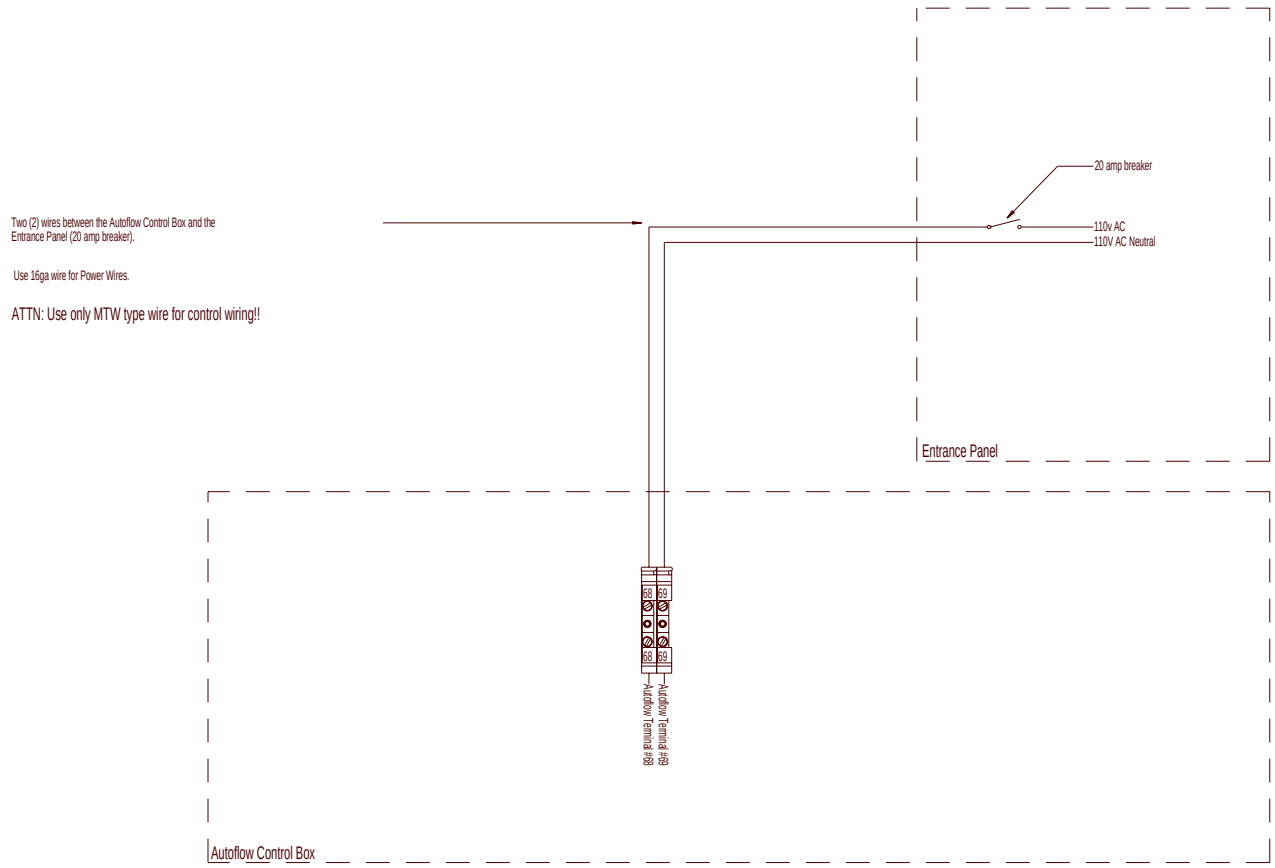
1997 Autoflow-Autoflow to Fill System Control Box Interconnect



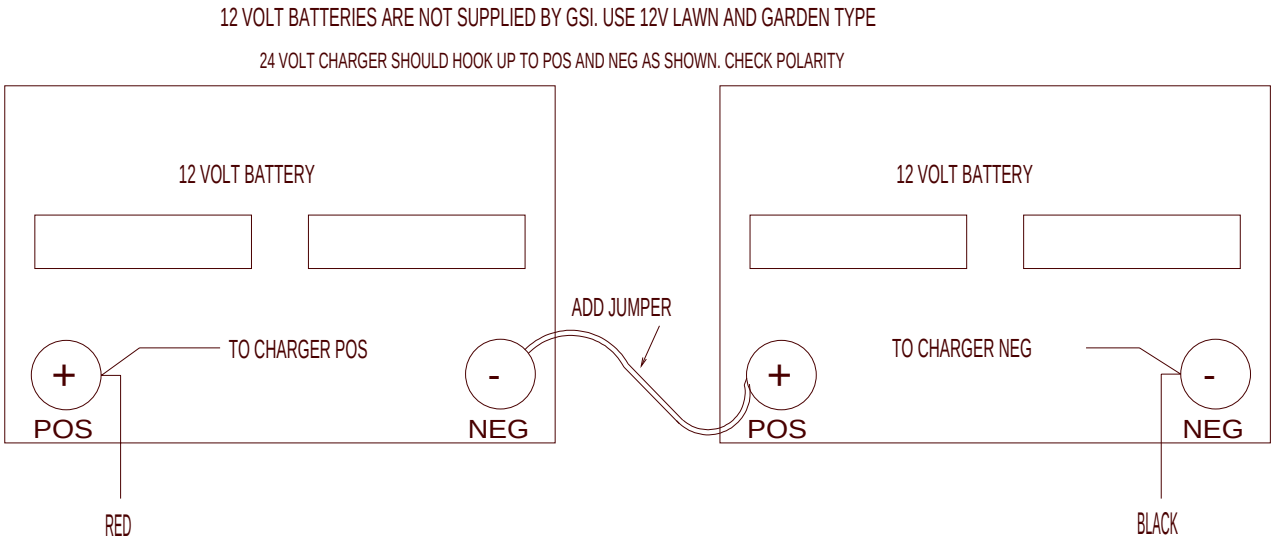
1997 Autoflow-Autoflow to Grain Temperature Sensors Interconnect



1997 Autoflow-Autoflow to Input Power Interconnect

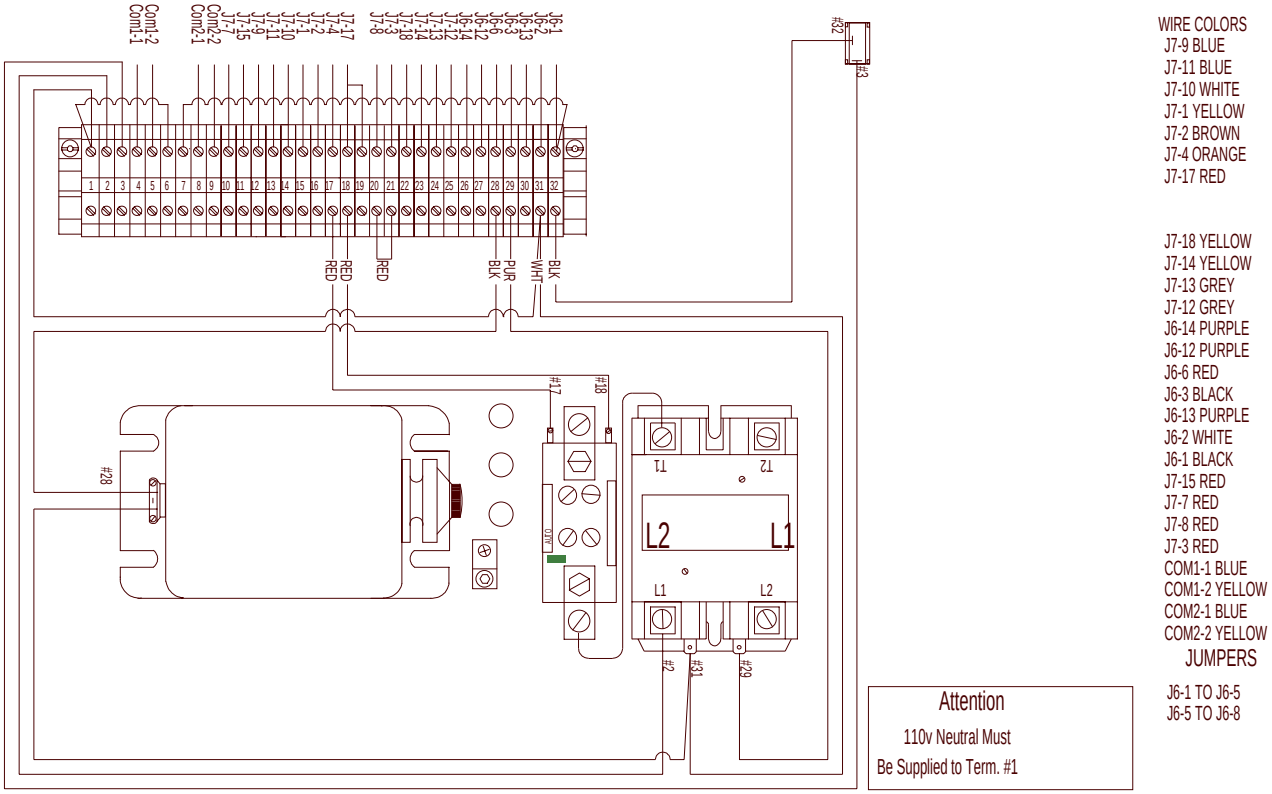


1997 Autoflow-Actuator Battery Hook-up



1997 Series 2000 Batch Wiring Diagrams

1997 Series 2000-220v1ph Master Wiring

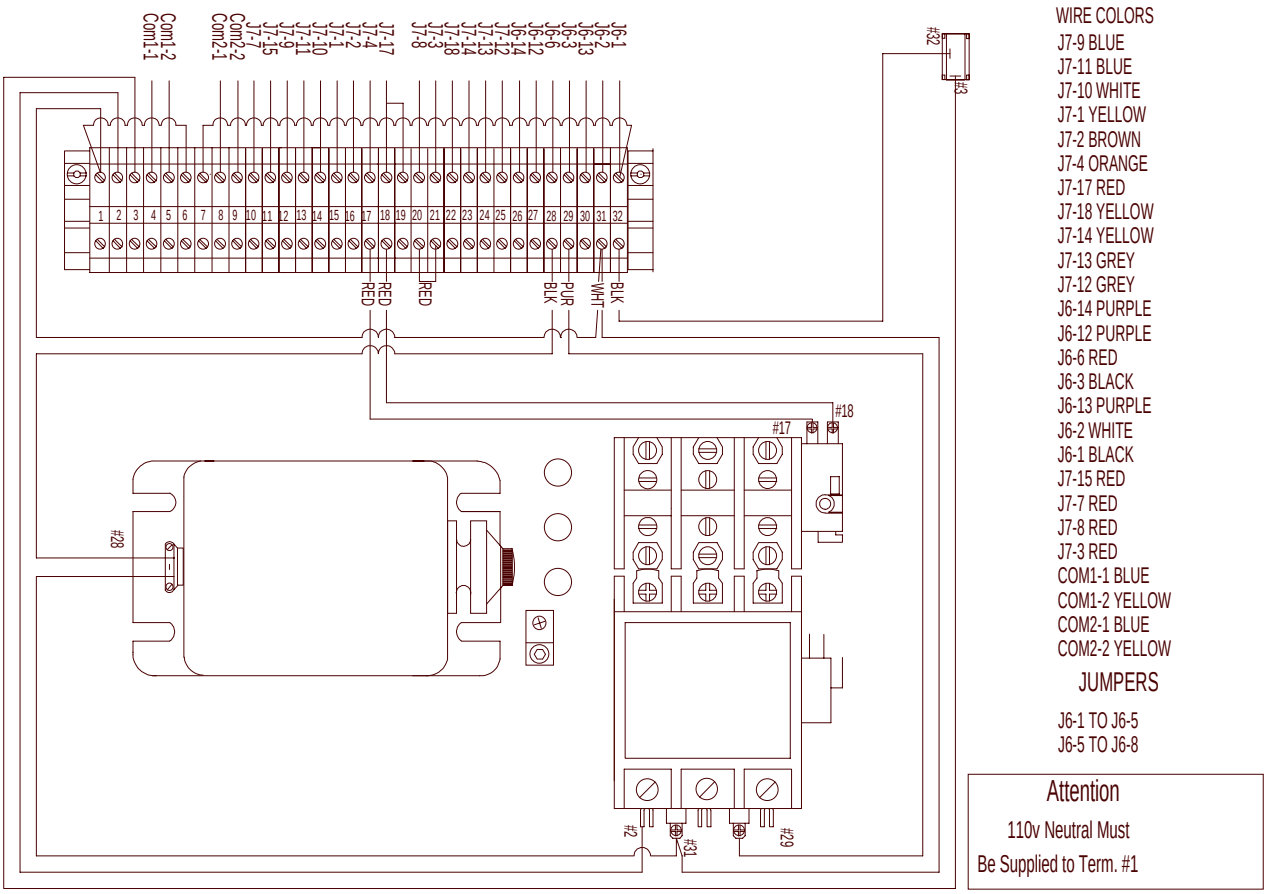


WIRE COLORS
J7-9 BLUE
J7-11 BLUE
J7-10 WHITE
J7-1 YELLOW
J7-2 BROWN
J7-4 ORANGE
J7-17 RED

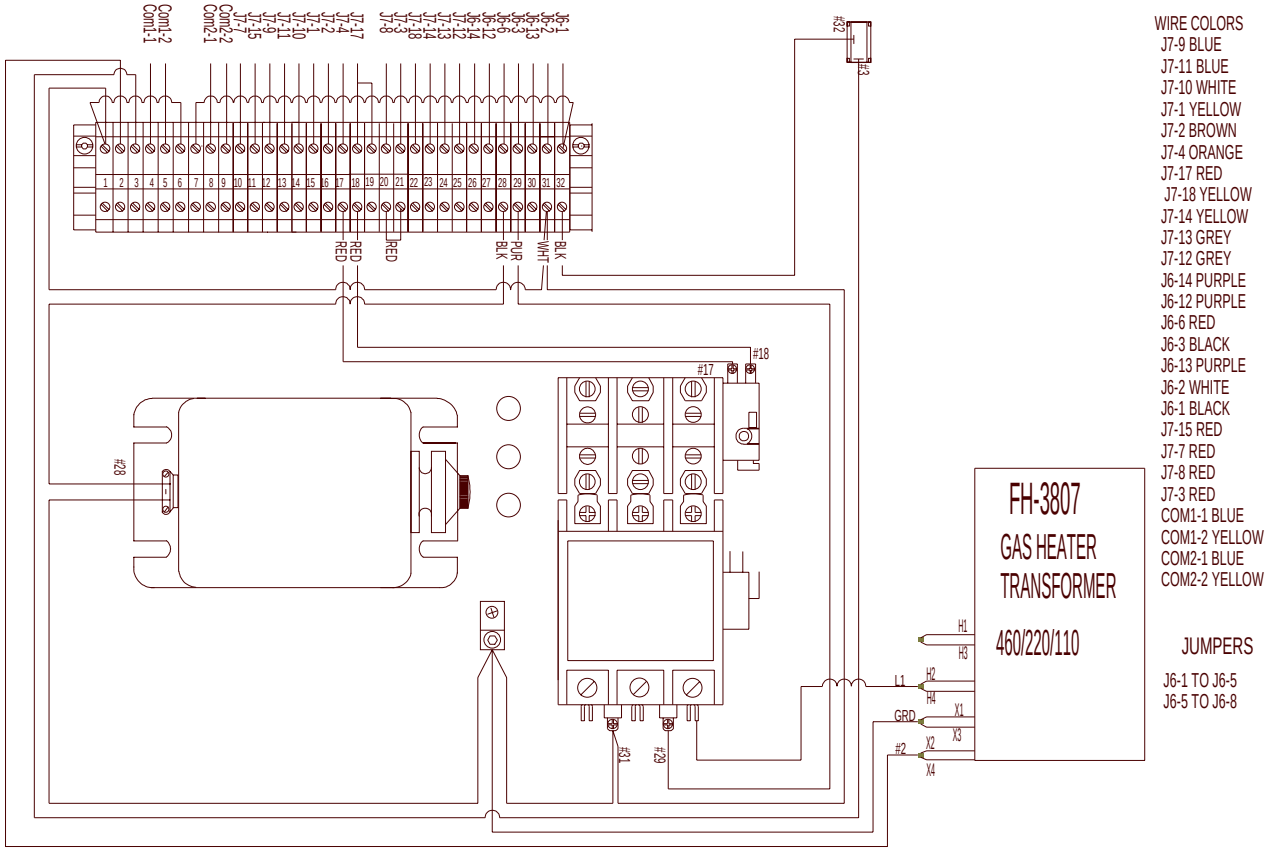
J7-18 YELLOW
J7-14 YELLOW
J7-13 GREY
J7-12 GREY
J6-14 PURPLE
J6-12 PURPLE
J6-6 RED
J6-3 BLACK
J6-13 PURPLE
J6-2 WHITE
J6-1 BLACK
J7-15 RED
J7-7 RED
J7-8 RED
J7-3 RED
COM1-1 BLUE
COM1-2 YELLOW
COM2-1 BLUE
COM2-2 YELLOW

JUMPERS
J6-1 TO J6-5
J6-5 TO J6-8

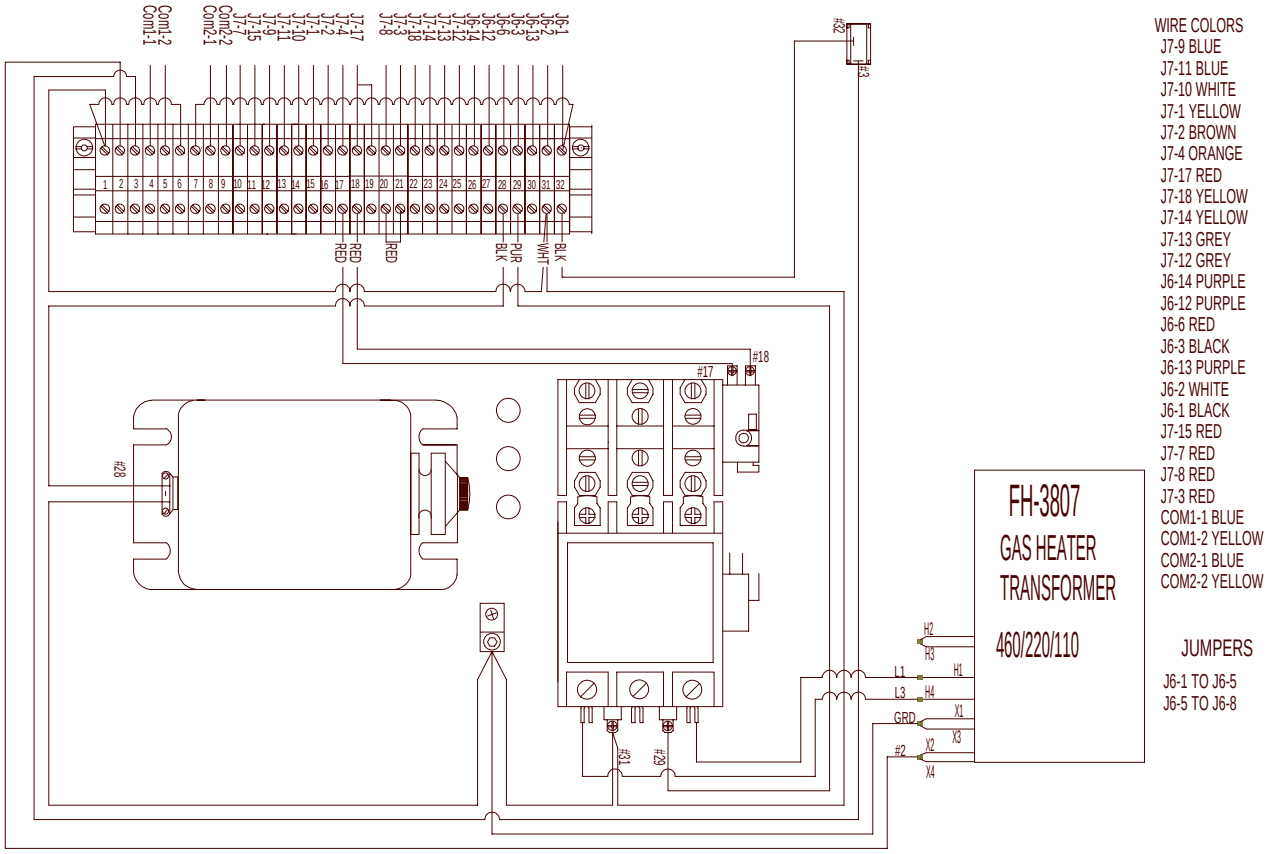
1997 Series 2000-220v3ph Master Wiring



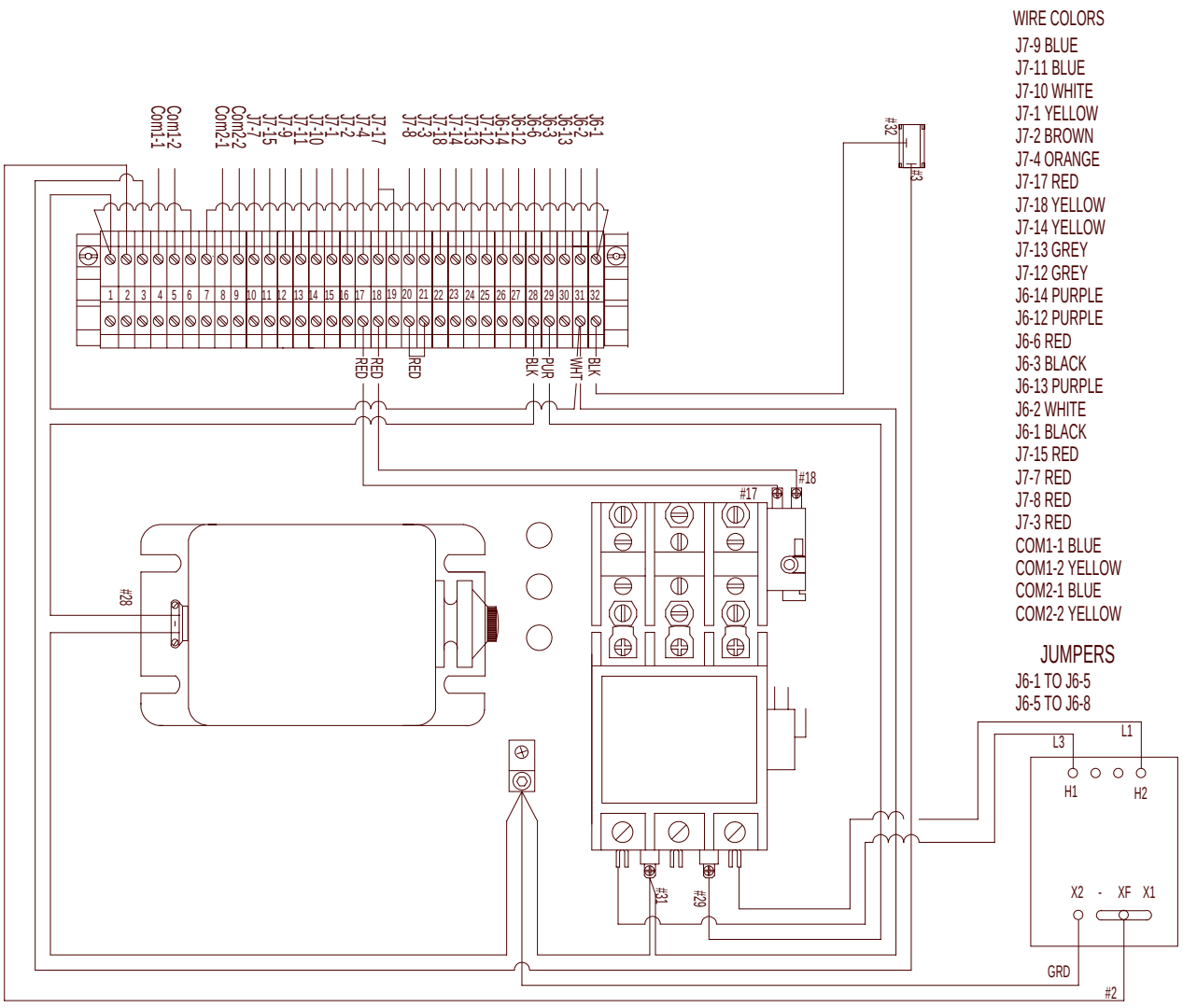
1997 Series 2000-380v3ph Master Wiring-Actuator Wiring



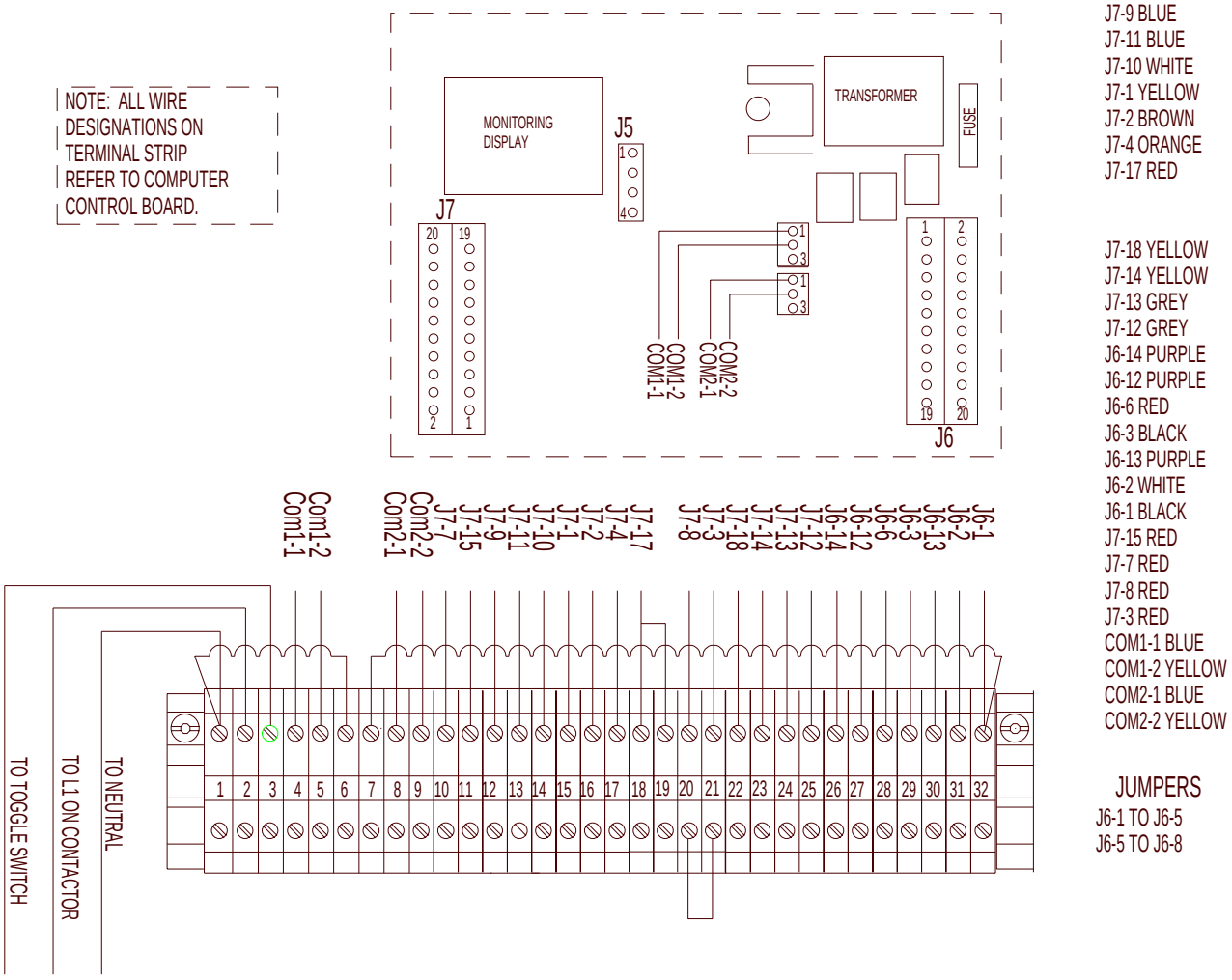
1997 Series 2000-460v 3ph Master Wiring



1997 Series 2000-575v 3ph Master Wiring



1997 Series 2000-Master Heater Terminal Strip



WIRE COLORS

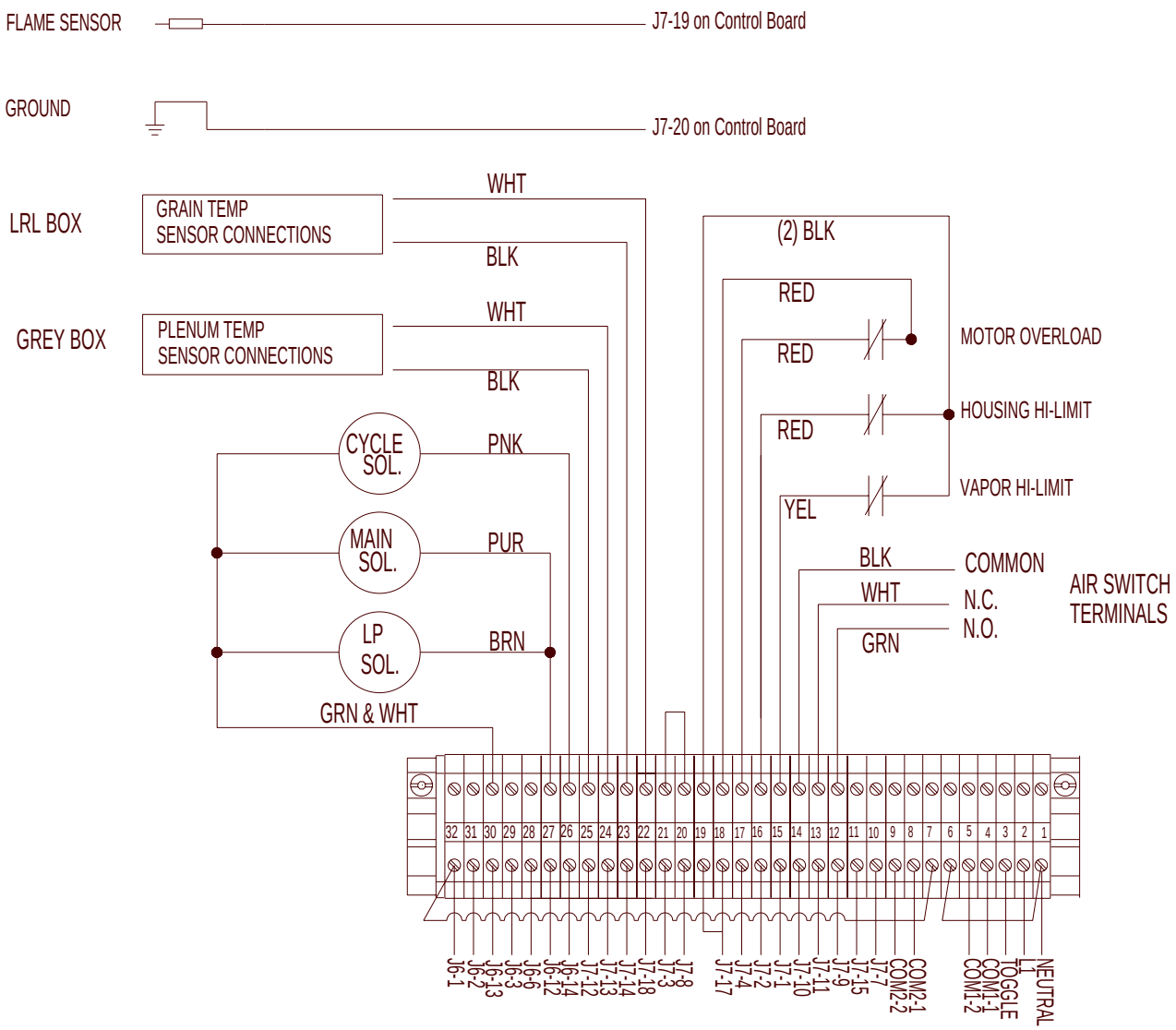
J7-9 BLUE
J7-11 BLUE
J7-10 WHITE
J7-1 YELLOW
J7-2 BROWN
J7-4 ORANGE
J7-17 RED

J7-18 YELLOW
J7-14 YELLOW
J7-13 GREY
J7-12 GREY
J6-14 PURPLE
J6-12 PURPLE
J6-6 RED
J6-3 BLACK
J6-13 PURPLE
J6-2 WHITE
J6-1 BLACK
J7-15 RED
J7-7 RED
J7-8 RED
J7-3 RED
COM1-1 BLUE
COM1-2 YELLOW
COM2-1 BLUE
COM2-2 YELLOW

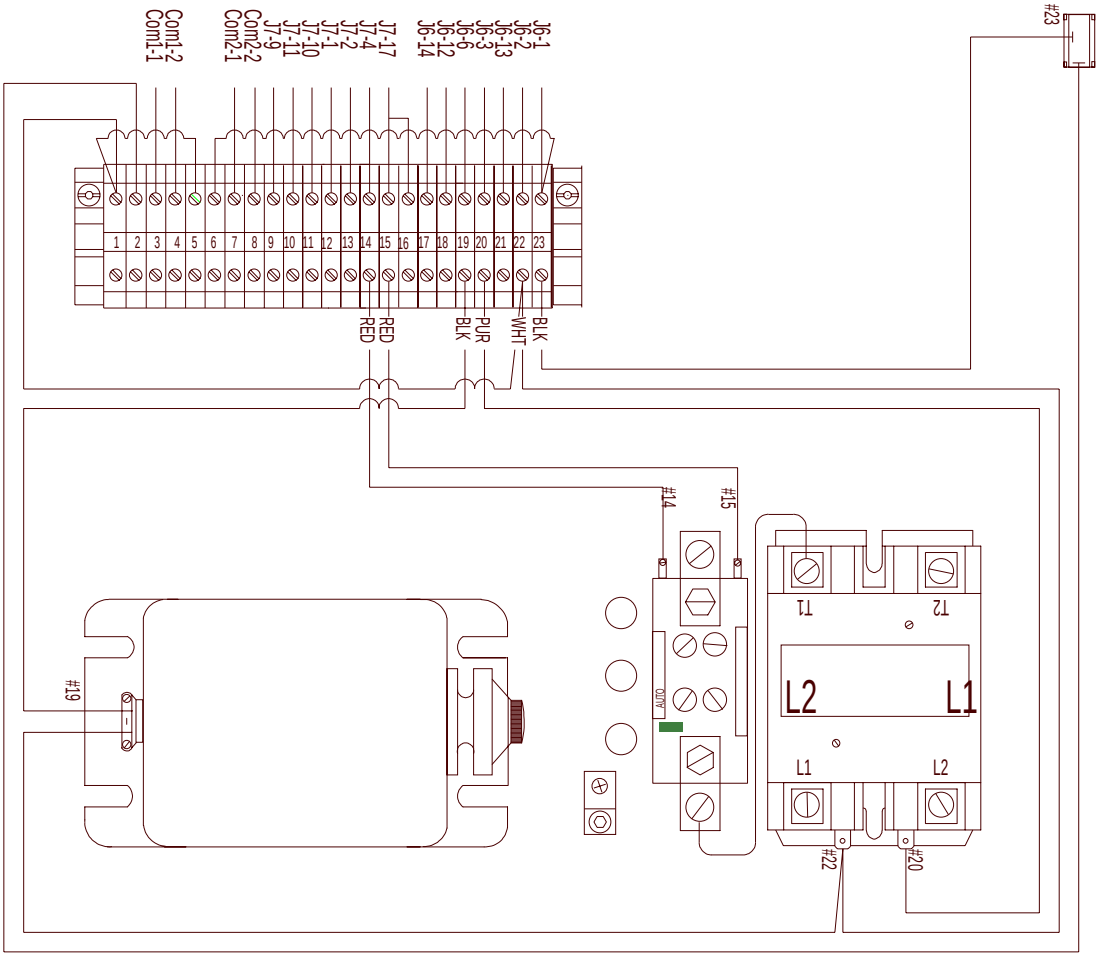
JUMPERS

J6-1 TO J6-5
J6-5 TO J6-8

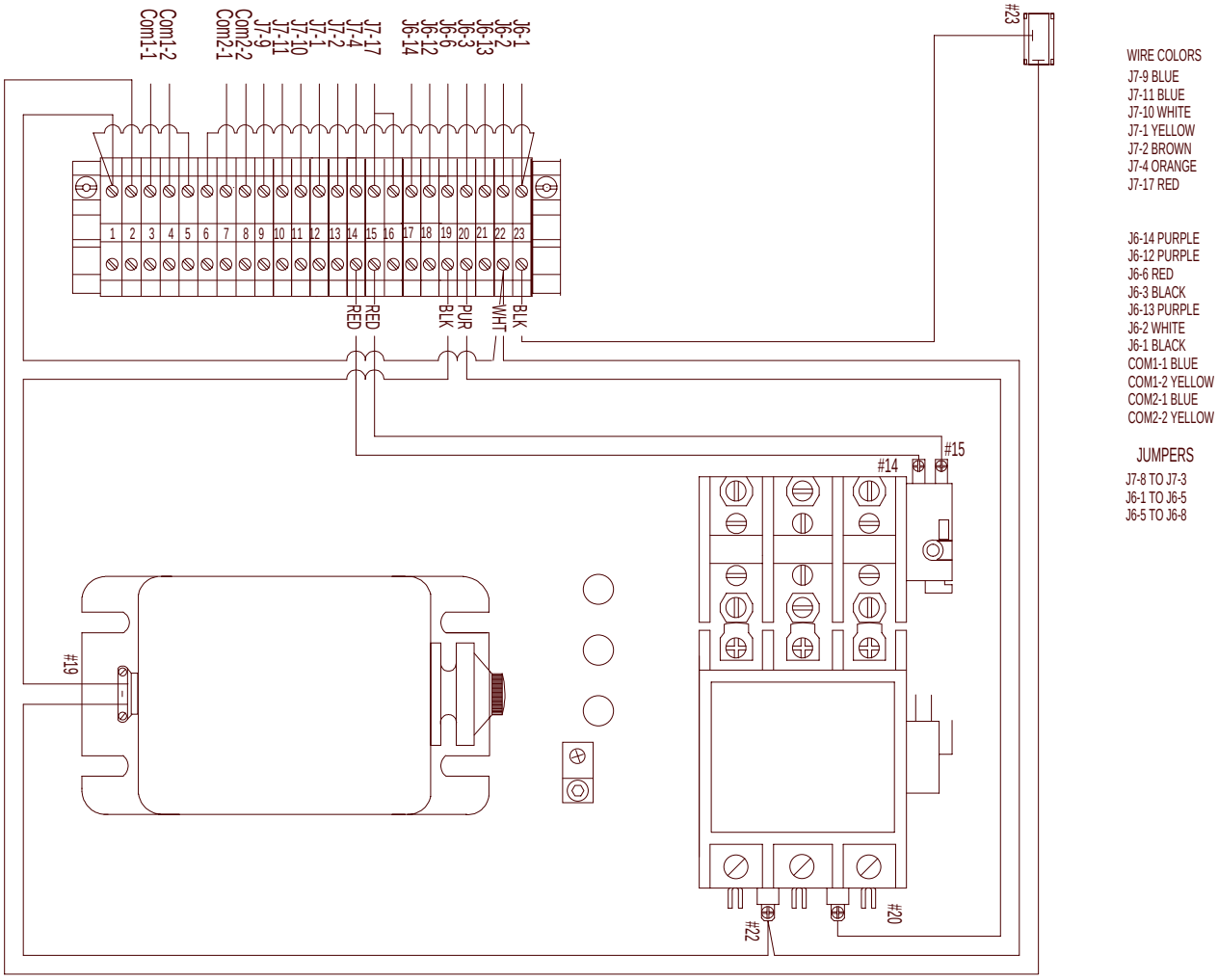
1997 Series 2000-Master Heater External Wiring



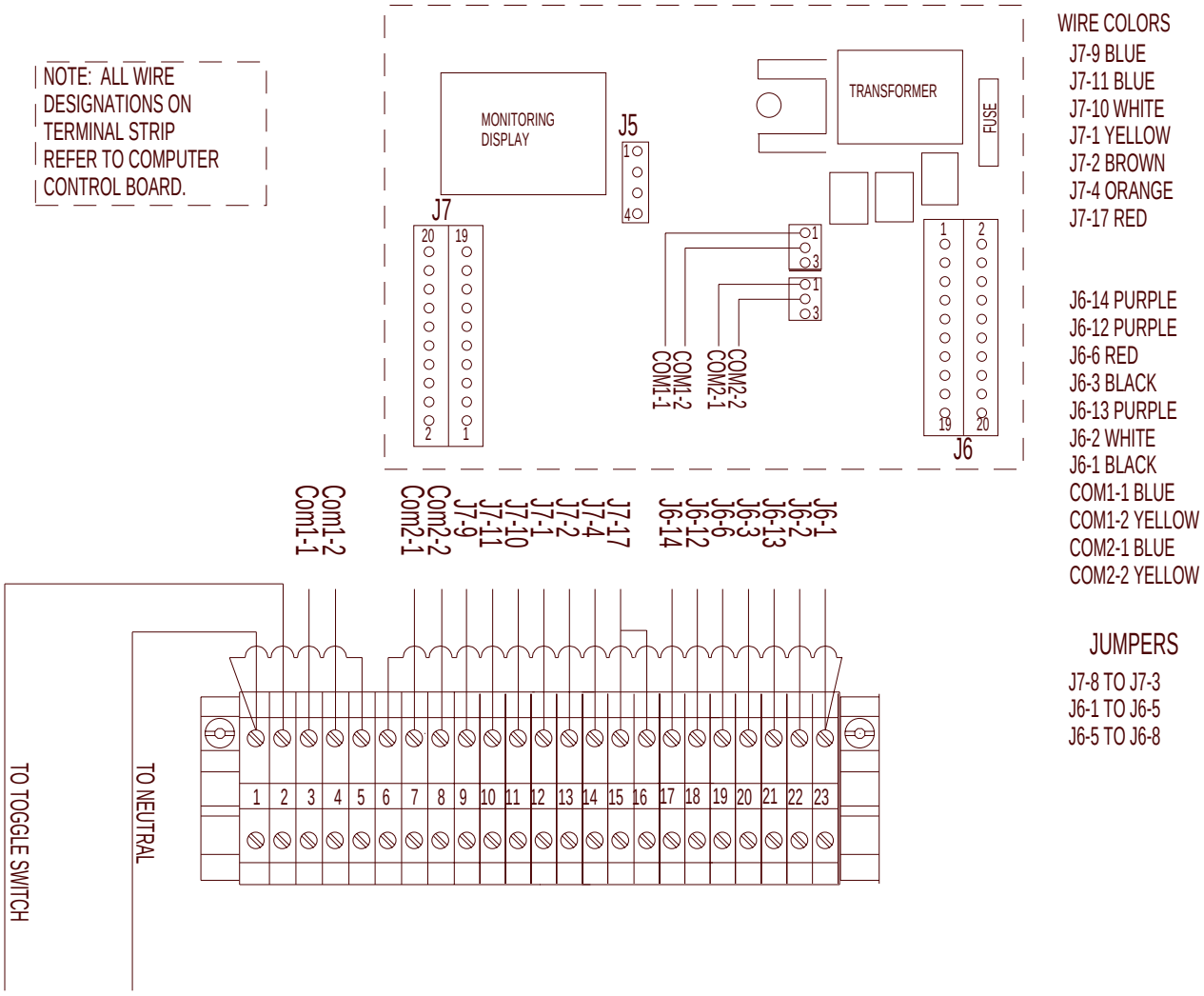
1997 Series 2000-Slave Heater Single Phase Wiring



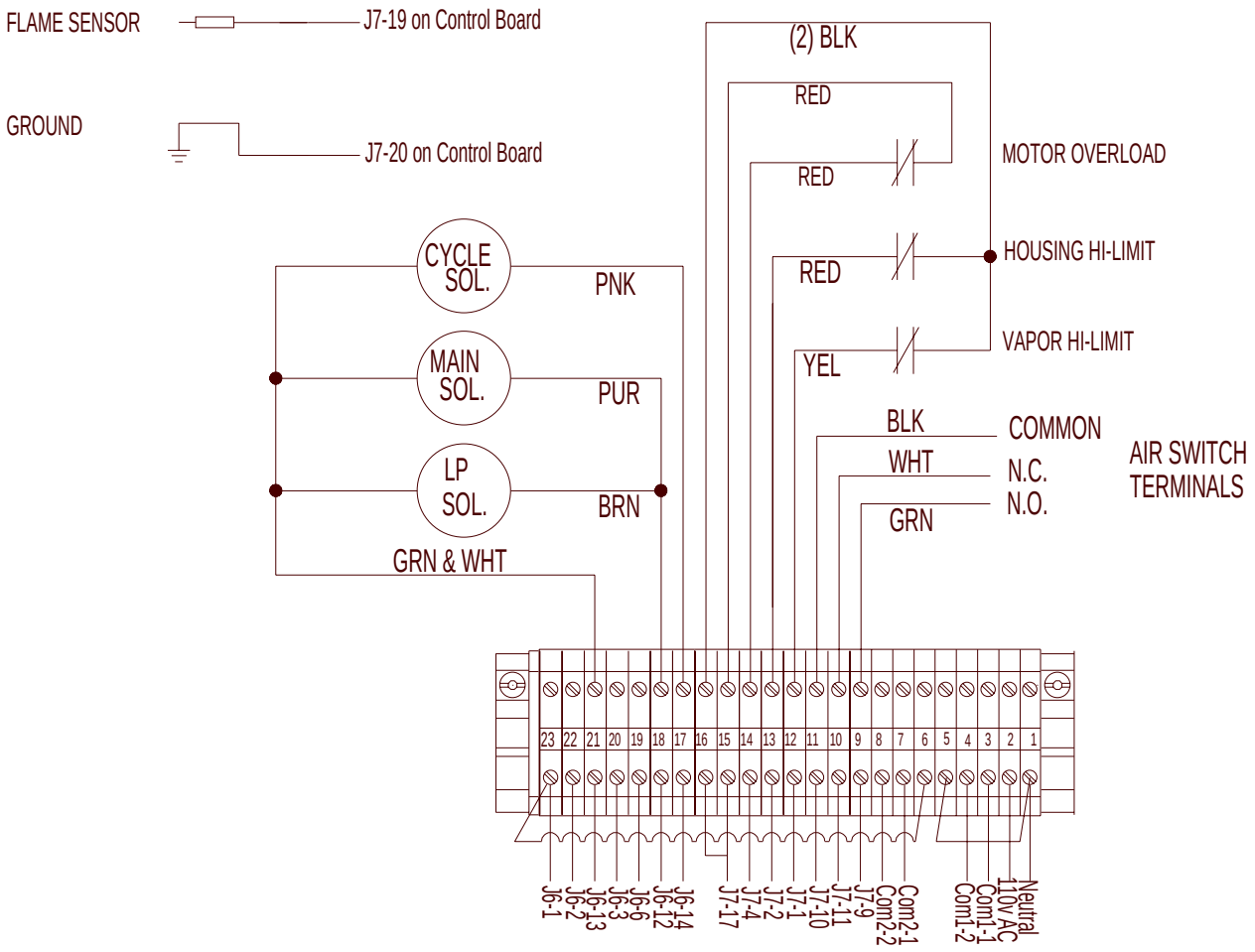
1997 Series 2000-Slave Heater Three Phase Wiring



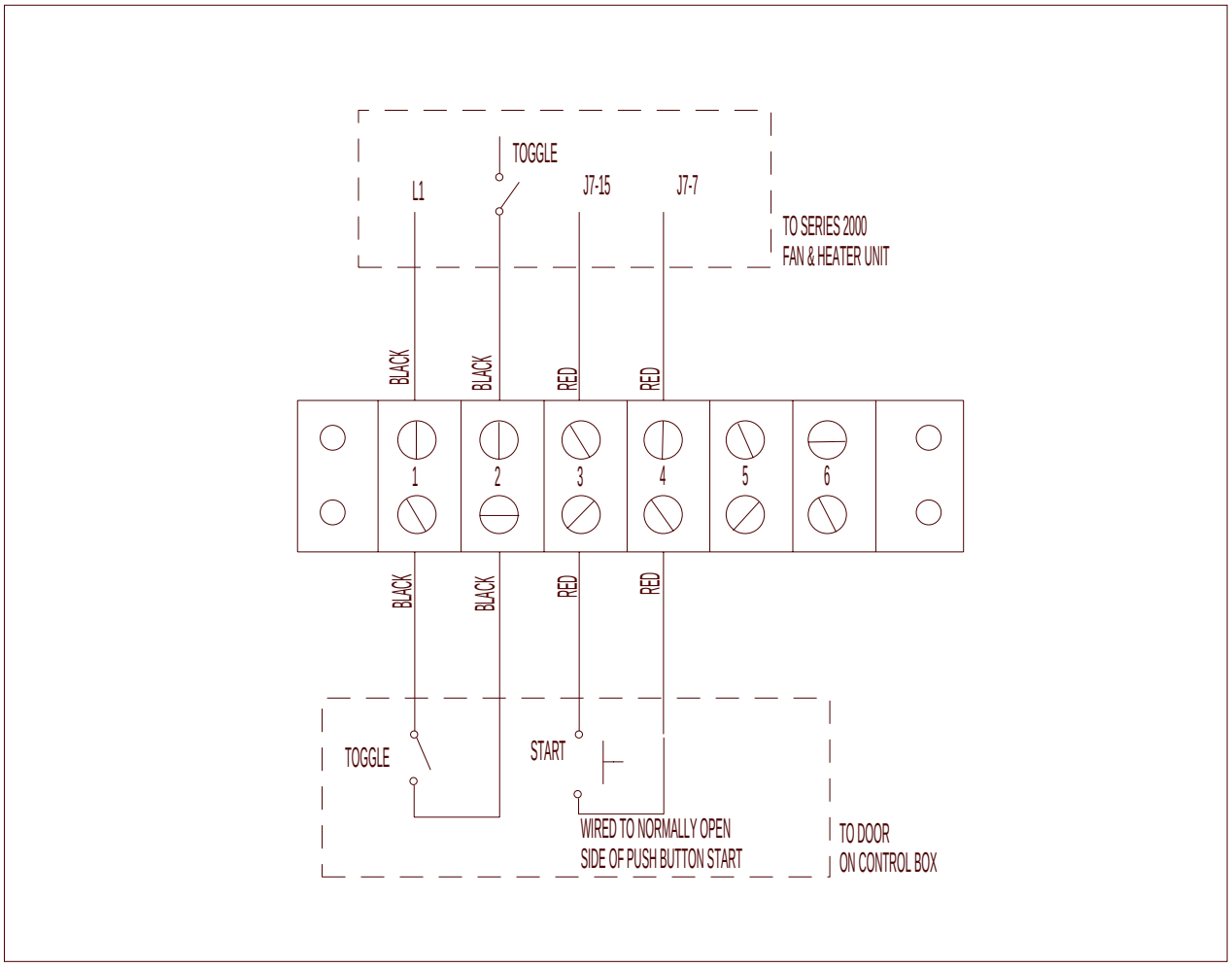
1997 Series 2000-Slave Heater Terminal Strip



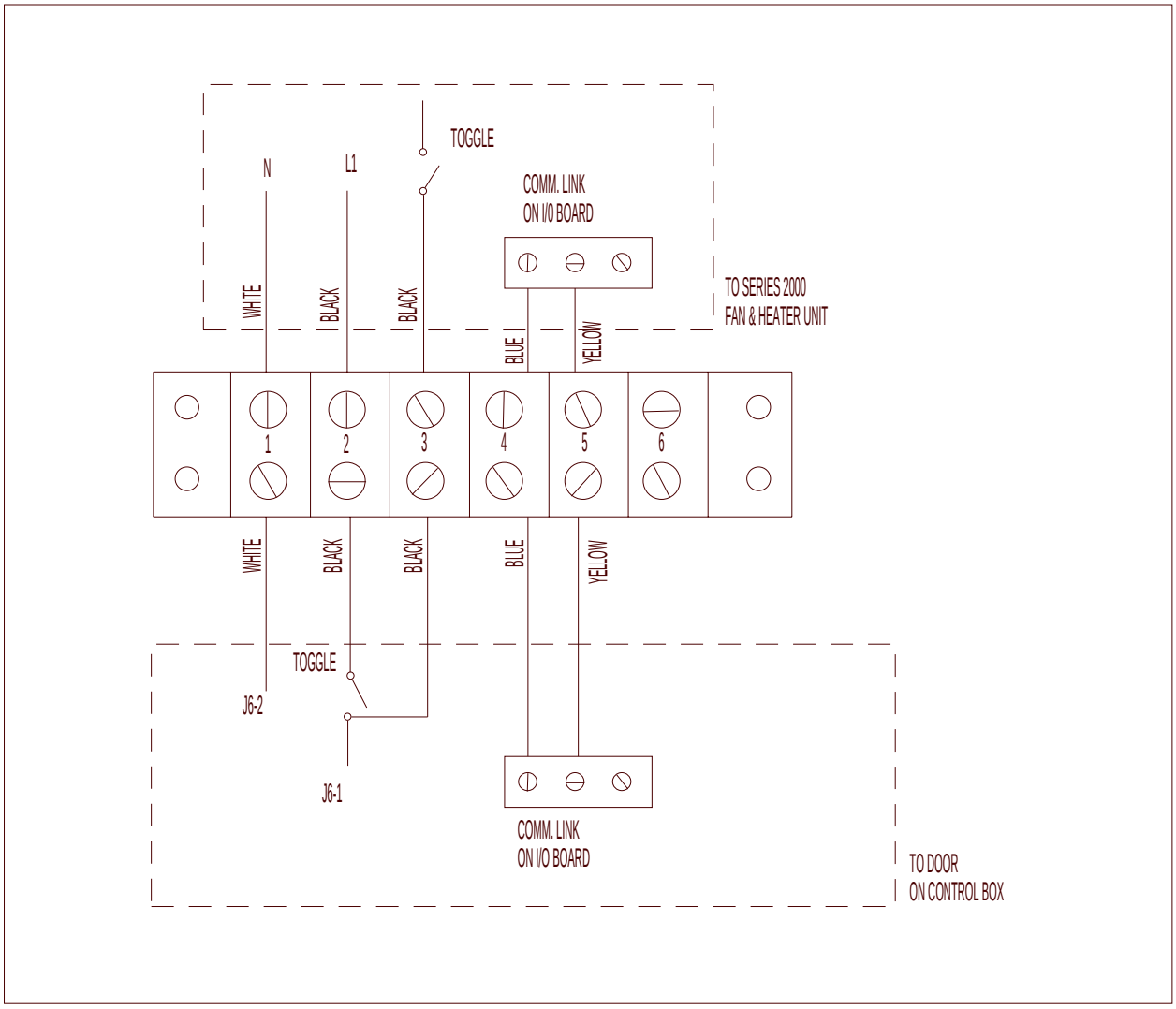
1997 Series 2000-Slave Heater External Wiring



1997 Series 2000-Economy Control Center Wiring



1997 Series 2000-Manual Control Center Wiring



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Fax 217-226-4498

March 1998