SUCCESS WITH Atwood® TRAINING

Atwood

SWAT

Welcome to S.W.A.T

Atwood Furnace Part 2
Sequence of operations systems include the following:

1. **Fan system**
2. **Ignition system**
3. **Burner System**

Presenter: Mike Williams and Chantal Hershberger

Customer Service 866-869-3118

www.askforatwood.com

Welcome to Atwood SWAT Training

These classes are to help you troubleshoot our product to reduce time and money to get the customer on the road to their next destination.

These classes are training and not a certification program for RVIA hours.

Welcome to Atwood SWAT Training

Become a Certified RV Service Technician

Join more than 2,200 of your peers in being recognized for your experience and knowledge. What does becoming a Certified RV Service Technician do for you?

- Signifies your individual knowledge of RV technical service
- Exemplifies your advanced capabilities
- Represents your enhanced credibility
- Showcases your commitment to your customers
- Earns money for you and your dealership, which makes you stand apart from non-certified RV technicians

Staying Certified Increases Your Value to Your Dealership and Customers

By retaining your Certification status you are showing your renewed commitment to your customers and reaffirming your elite knowledge of RV technical service.

The Certification Program

"We employ eight certified techs in our dealership. They have helped improve productivity and lower operational costs."

Rick Horsey
Parkview RV Center

"We advertise that we employ certified technicians, It helps us explain and justify the rates we charge for labor,"

Gary Kraemer
Webster City RV

Now that we have talked about the different types of furnace and how they work we will not go into the sq of ops that when troubleshooting each of our product the sq of op will be the same for each model.

Sequence of Operation - DC Models (STANDARD ONE-STAGE)

The ON/OFF switch allows power to pass to the circuit breaker and the thermostat.

↓

The thermostat controls the operating circuit to the furnace by reacting to room temperature. When room temperature is below the thermostat set point, the contact closes to allow current to flow to the relay.

↓

The circuit breaker limits amperage draw of motor.

↓

The relay allows current to pass to the motor by closing a switch within the relay. Voltage from the thermostat activates the relay to turn the fan on. This takes 1-25 seconds.

↓

Current flows to the motor to operate the blower. One end of the motor shaft is for the circulating air wheel and the other side is for the combustion air wheel.

↓

Circulating air blows against the sail switch and closes the contacts, completing the circuit. The sail switch is a safety device that insures air flow before ignition.

↓

The limit switch is a safety device that protects the furnace from over heating. The contacts in the limit switch open at a given temperature setting, shutting off power to the electronic ignition system that controls the gas valve.

↓

As power is applied to the circuit board, the system does the following:

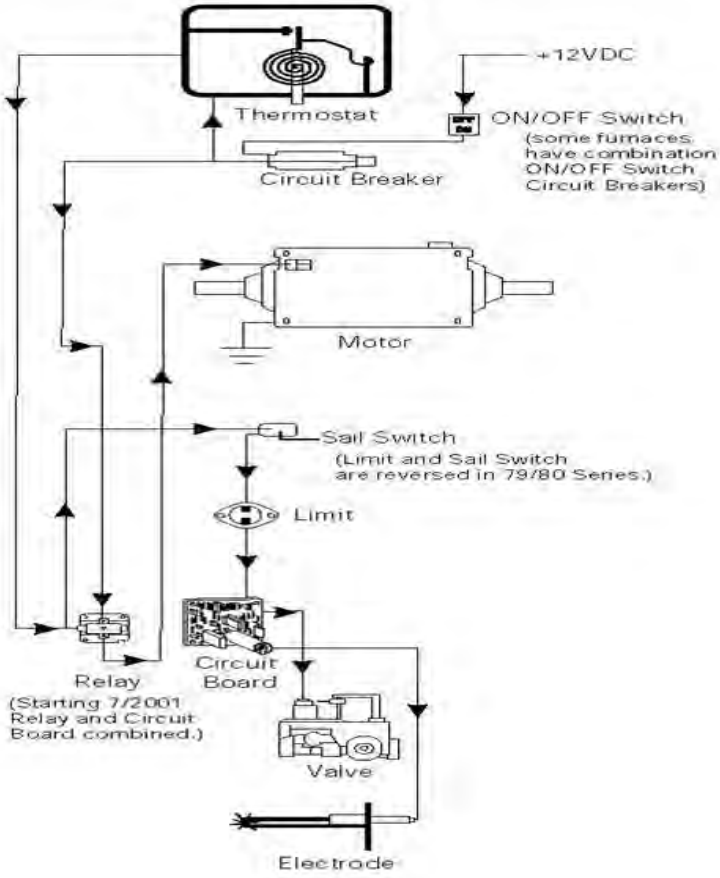
1. A timing circuit allows the blower to purge the chamber (15-17 seconds)
2. The board supplies current to the gas valve and causes it to open.
3. As the valve opens, the board sends a high voltage spark to the electrode at the burner. The board detects the presence of a flame. If the flame is not sensed after approximately six seconds, the board will lock out (three try for ignition, one hour lockout and then three retry), shutting off power to the valve.
4. If the system does not ignite and the thermostat remains closed, the blower will remain on until the thermostat is reset manually.

↓

When the thermostat senses the desired room air temperature, the contacts open, removing power from the ignition system and shutting off the gas valve. The blower runs until the relay opens the circuit, shutting off current to the motor.

⚠ WARNING
FURNACE PRODUCES HIGH TEMPERATURE

- Locate furnace out of traffic and away from furniture and draperies.
- Do not touch or put combustibles near appliance. Hot surface temperature may occur.
- Supervise young children in the same room as the furnace.
- Do not place clothing or flammable materials on or near the furnace.



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swit
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The
furna
swit
off p
cont

As p
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When the thermostat
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the ignition system and shutting off the gas valve. The blower runs until the relay opens the circuit, shutting off current to the motor.

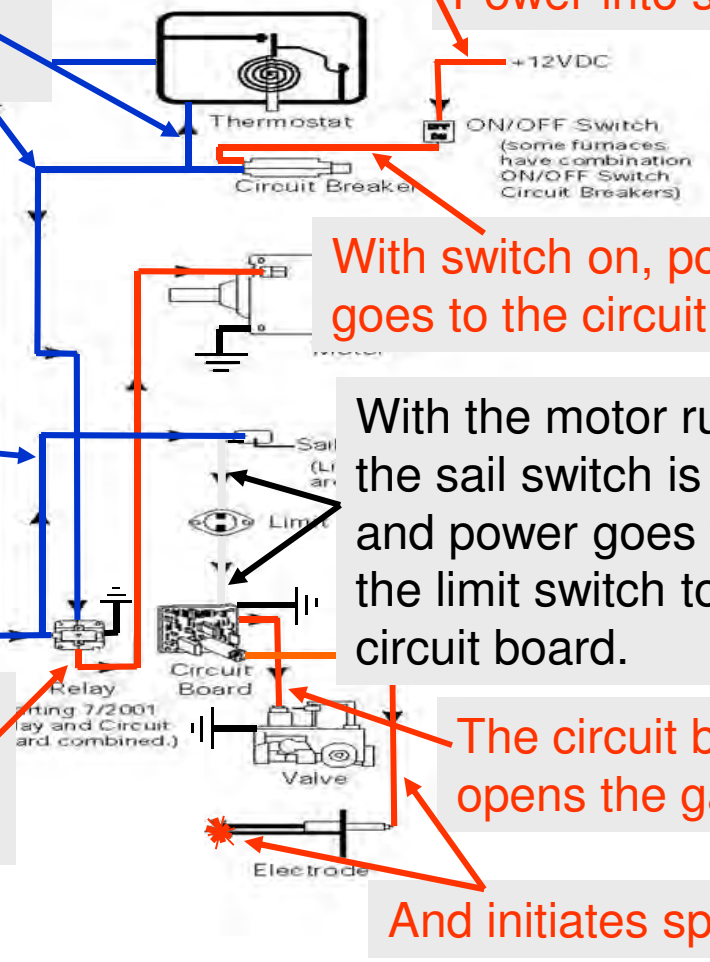
⚠ WARNING
FURNACE PRODUCES HIGH TEMPERATURE

- Locate furnace out of traffic and away from furniture and
- or put combustibles near appliance. Hot surface may occur.
- ung children in the same room as the furnace.
- clothing or flammable materials on or near the furnace.

At the same time providing power to the thermostat and the relay.

When heat is called for, power is sent to the relay and sail switch. This causes the relay to close.

When the relay is closed, power is sent to the motor and it runs.



Power into switch

With switch on, power goes to the circuit breaker.

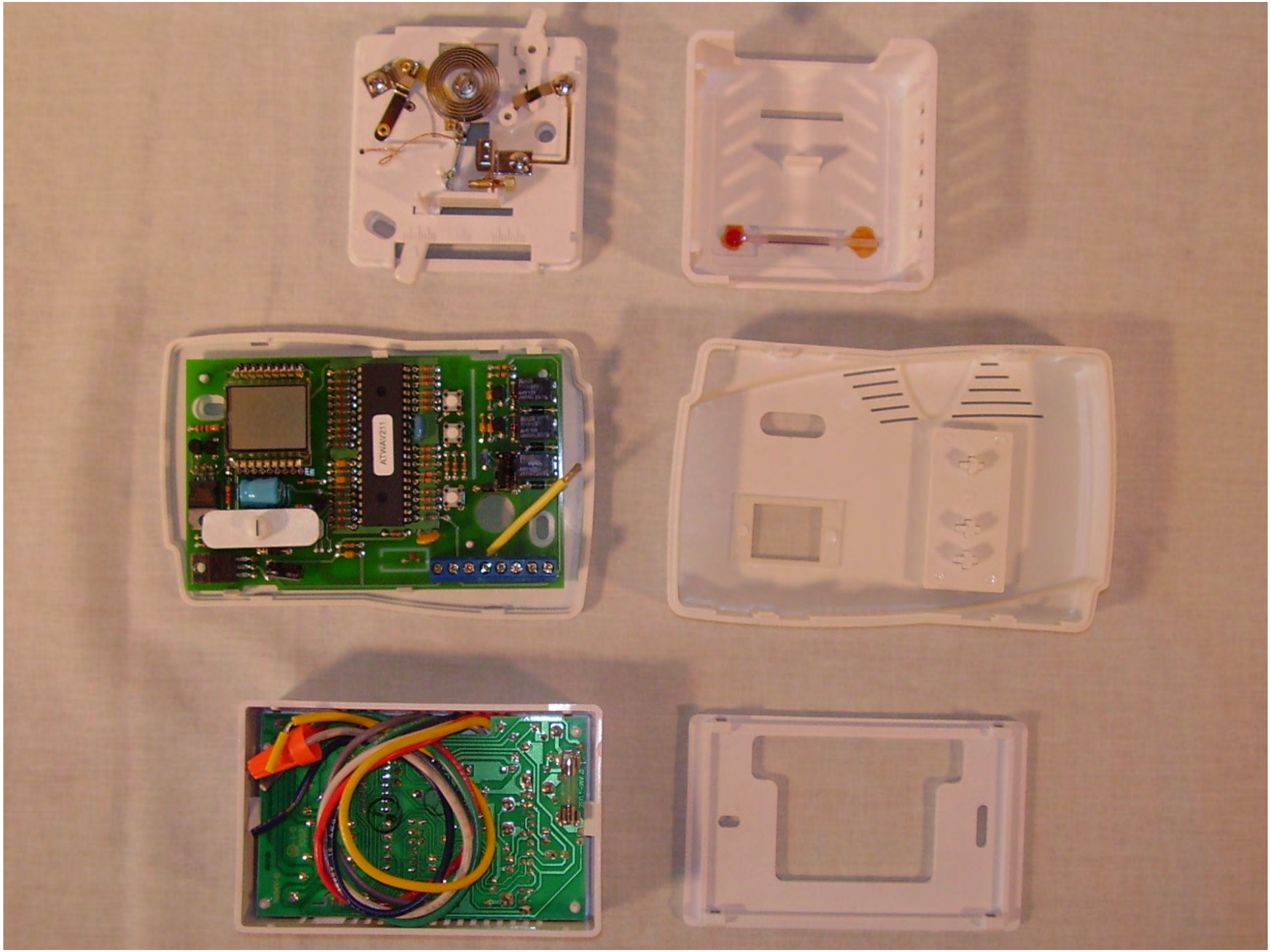
With the motor running, the sail switch is closed and power goes through the limit switch to the circuit board.

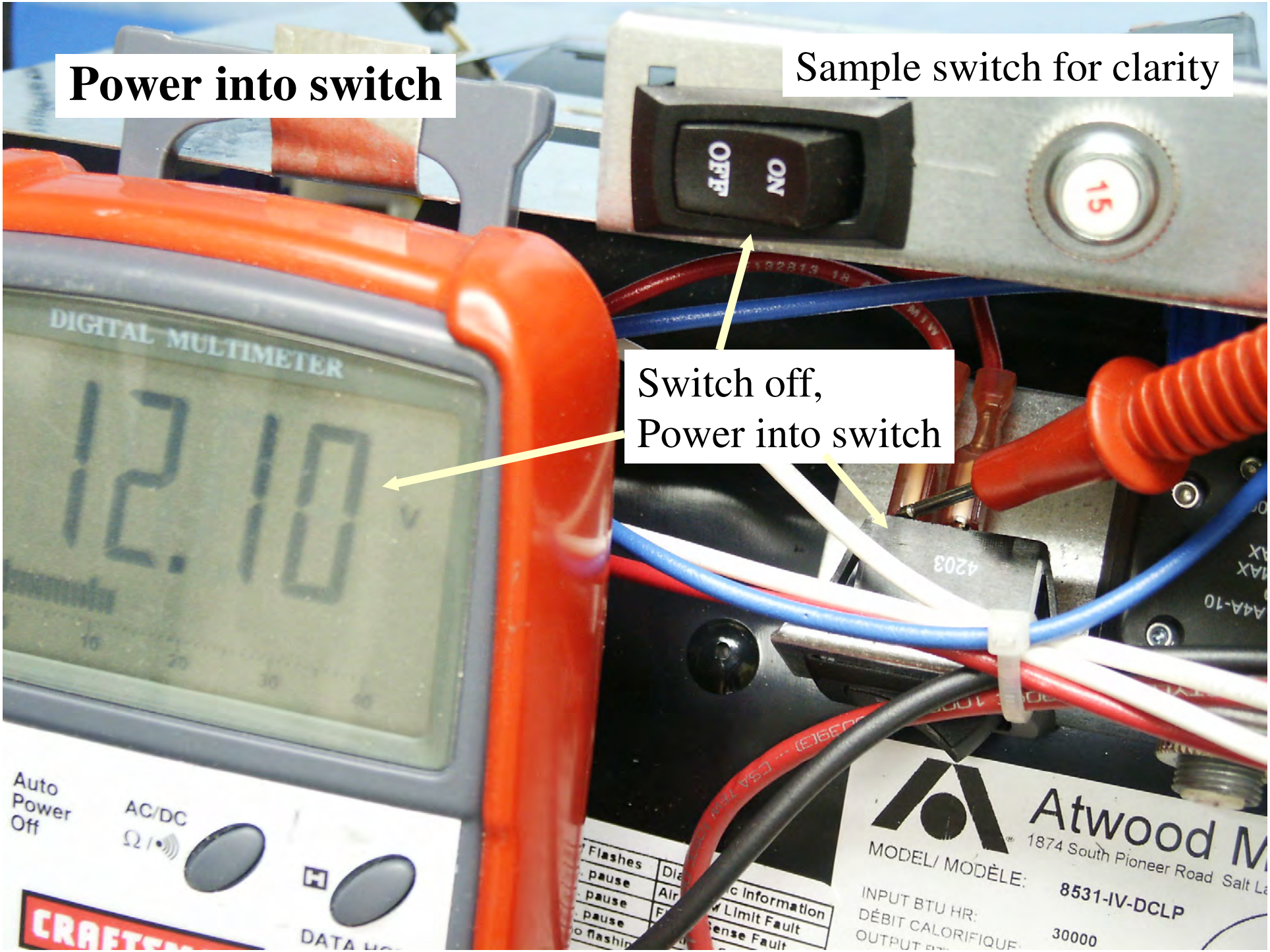
The circuit board opens the gas valve.

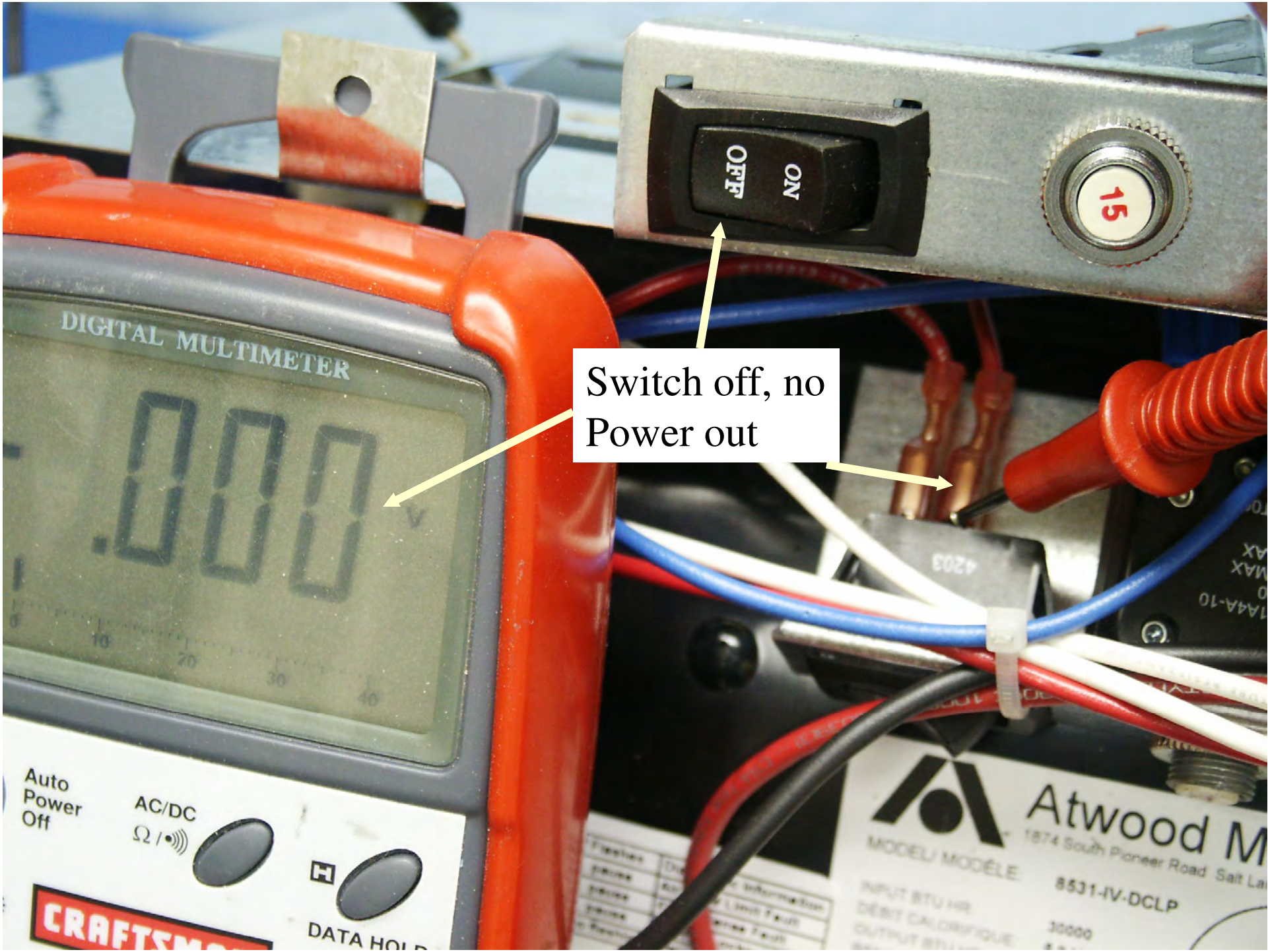
And initiates spark.

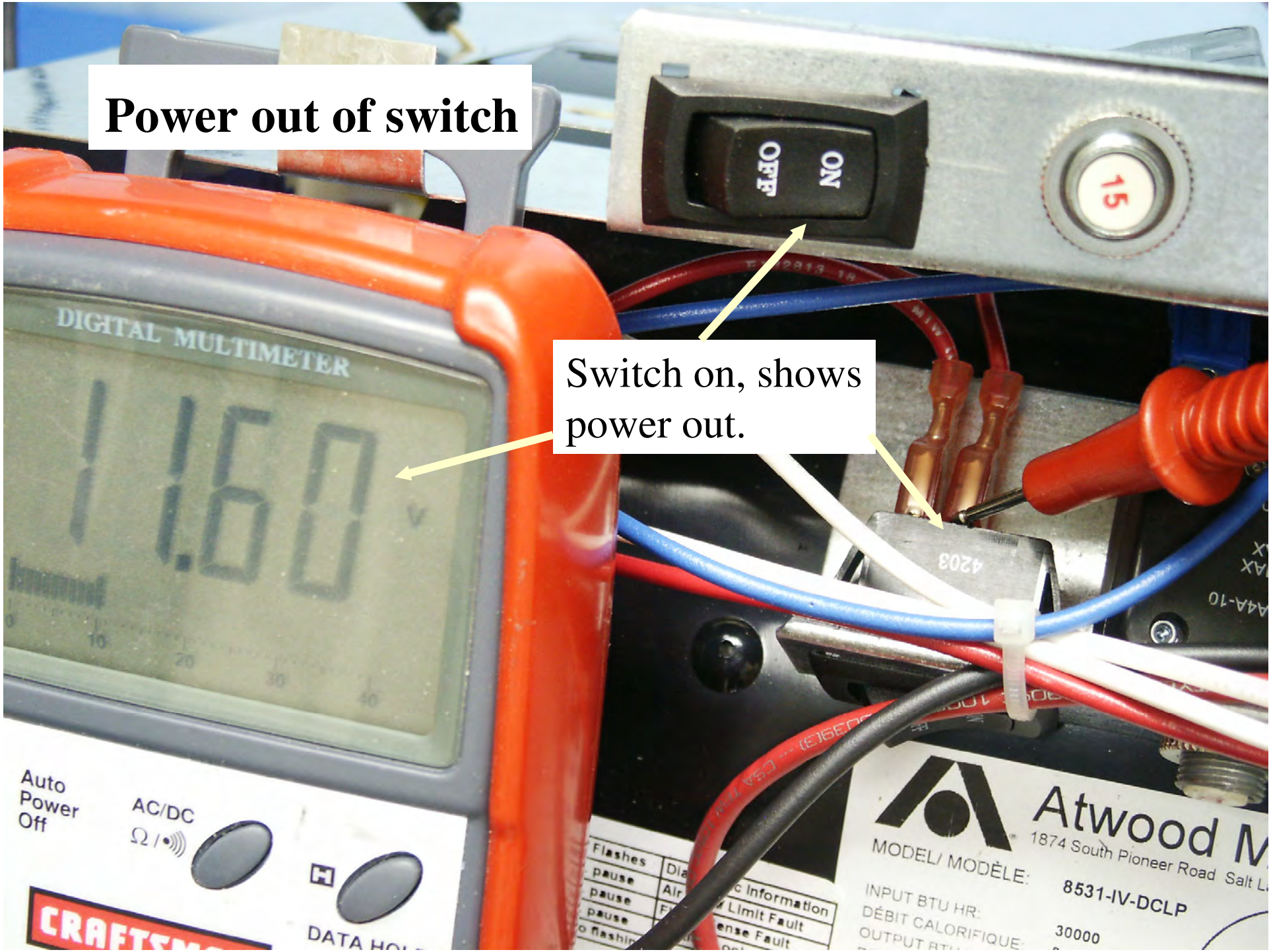
Note: starting 07/2001 relay is incorporated into circuit board.

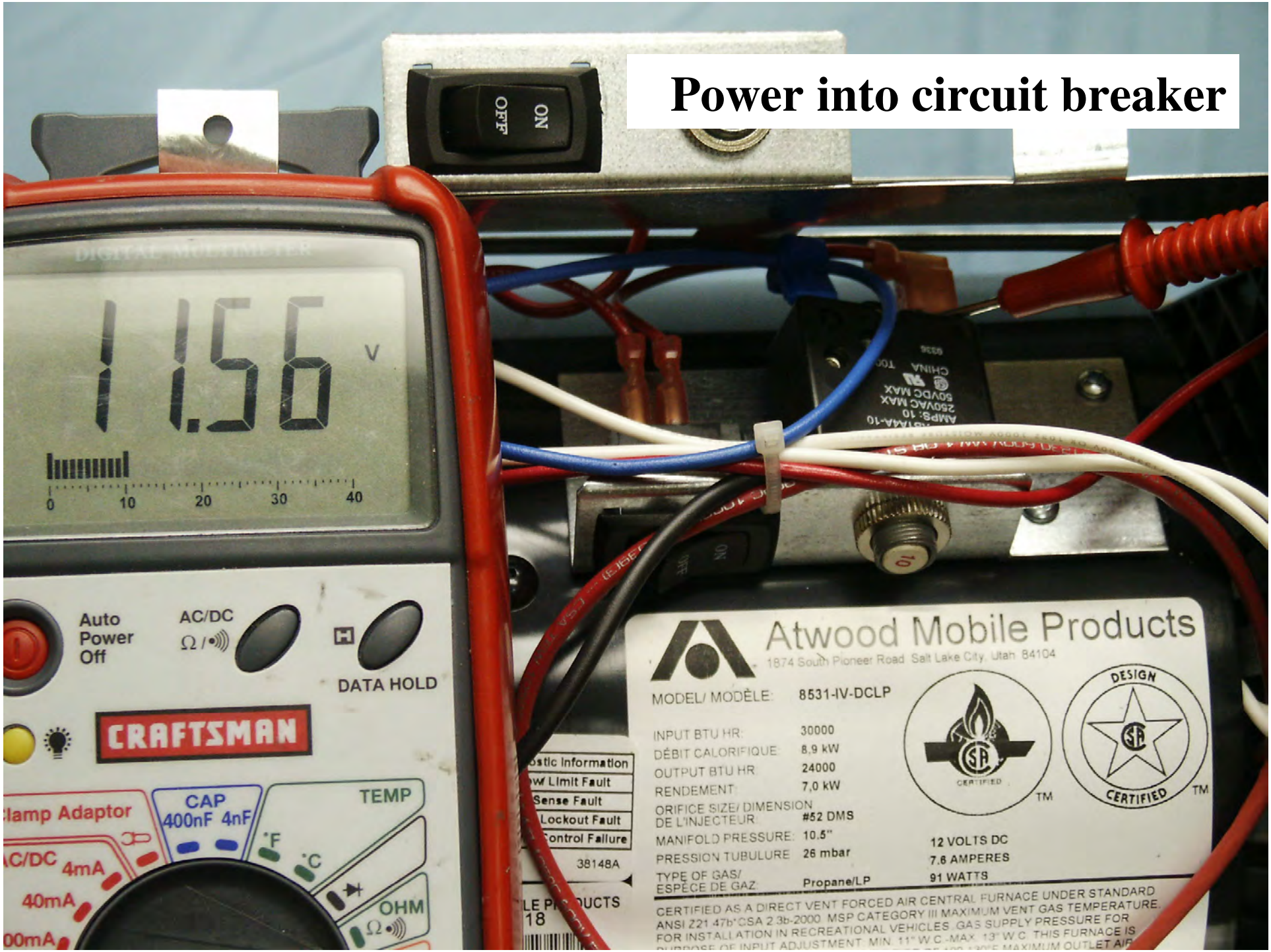

10 20 30°C
50 60 70 80 90°F
Atwood
hydro flame furnace
OFF
COOL
HEAT
FAN
M
Coleman Mach
COOL
FAN
OFF
HEAT
SYSTEM
HIGH
LOW
LOW
HIGH
AUTO
ON
FAN
BUILT IN TIME DELAY AND FUSE PROTECTION
90
85
80
75
70
65
60
55

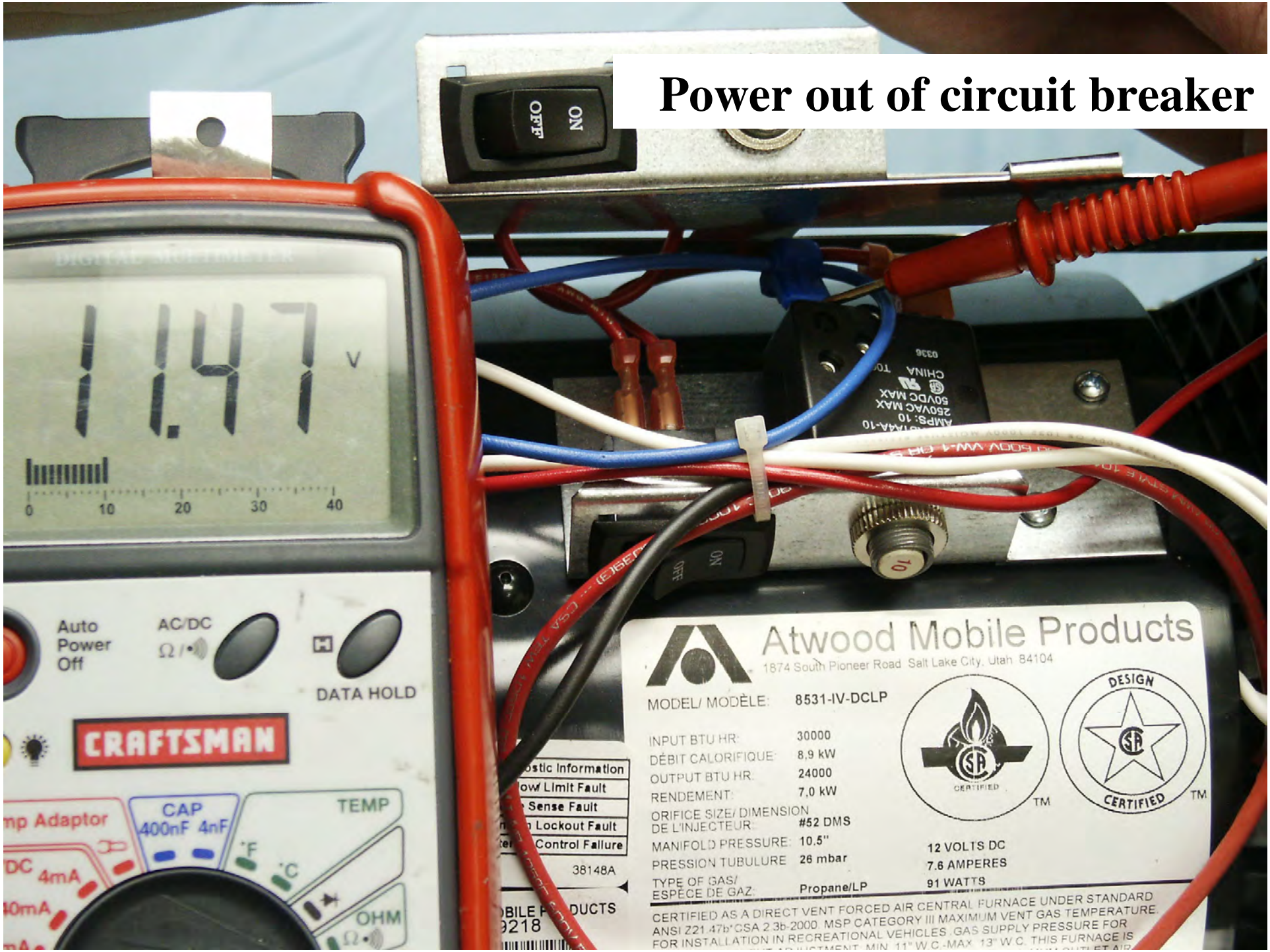



Power into switch
Sample switch for clarity
OFF
ON
15
DIGITAL MULTIMETER
12.10
V
Switch off,
Power into switch
4203
Auto
Power
Off
AC/DC
Atwood
MODEL/ MODÈLE:
8531-IV-DCLP
INPUT BTU HR:
DÉBIT CALORIFIQUE:
30000


OFF
ON
15
DIGITAL MULTIMETER
.000
V
Switch off, no
Power out
Auto
Power
Off
AC/DC
Ω /•)))
CRAFTSMAN
DATA HOLD
Atwood M
1874 South Pioneer Road Salt La
MODELE MODÈLE
8531-IV-DCLP
INPUT BTU HR
DÉBIT CALORIFIQUE
OUTPUT BTU HR
30000


Power out of switch
OFF
ON
15
DIGITAL MULTIMETER
11.60
V
Switch on, shows power out.
Auto Power Off
AC/DC
Ω /
DATA
CRAFTSMAN
4203
Atwood
1874 South Pioneer Road
MODEL/ MODÈLE:
8531-IV-DCLP
INPUT BTU HR:
DÉBIT CALORIFIQUE:
30000


Power into circuit breaker
11.56 V
0 10 20 30 40
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
CAP 400nF 4nF
TEMP
°F
°C
OHM
4mA
40mA
ON
OFF
Atwood Mobile Products
1874 South Pioneer Road Salt Lake City, Utah 84104
MODEL/ MODÈLE: 8531-IV-DCLP
INPUT BTU HR: 30000
DÉBIT CALORIFIQUE: 8,9 kW
OUTPUT BTU HR: 24000
RENDEMENT: 7,0 kW
ORIFICE SIZE/ DIMENSION DE L'INJECTEUR: #52 DMS
MANIFOLD PRESSURE: 10.5"
PRESSION TUBULURE: 26 mbar
TYPE OF GAS/ ESPÈCE DE GAZ: Propane/LP
12 VOLTS DC
7.6 AMPERES
91 WATTS
DESIGN CERTIFIED
CERTIFIED AS A DIRECT VENT FORCED AIR CENTRAL FURNACE UNDER STANDARD ANSI Z21.47b*CSA 2.3b-2000. MSP CATEGORY III MAXIMUM VENT GAS TEMPERATURE.
FOR INSTALLATION IN RECREATIONAL VEHICLES. GAS SUPPLY PRESSURE FOR


Power out of circuit breaker
11.47 V
0 10 20 30 40
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
CAP 400nF 4nF
TEMP
°F °C
OHM
OFF ON
Atwood Mobile Products
1874 South Pioneer Road Salt Lake City, Utah 84104
MODEL/ MODÈLE: 8531-IV-DCLP
INPUT BTU HR: 30000
DÉBIT CALORIFIQUE: 8,9 kW
OUTPUT BTU HR: 24000
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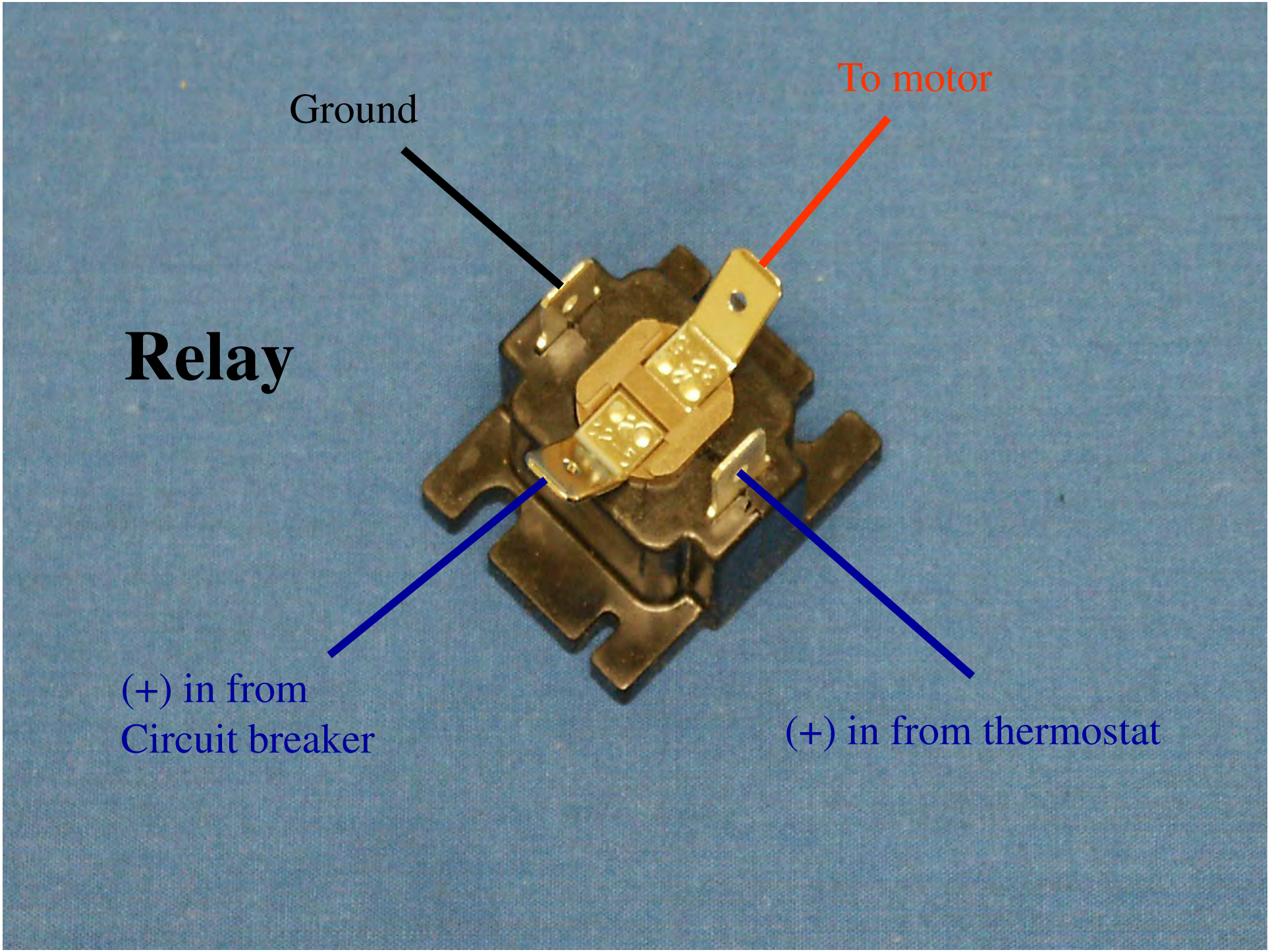
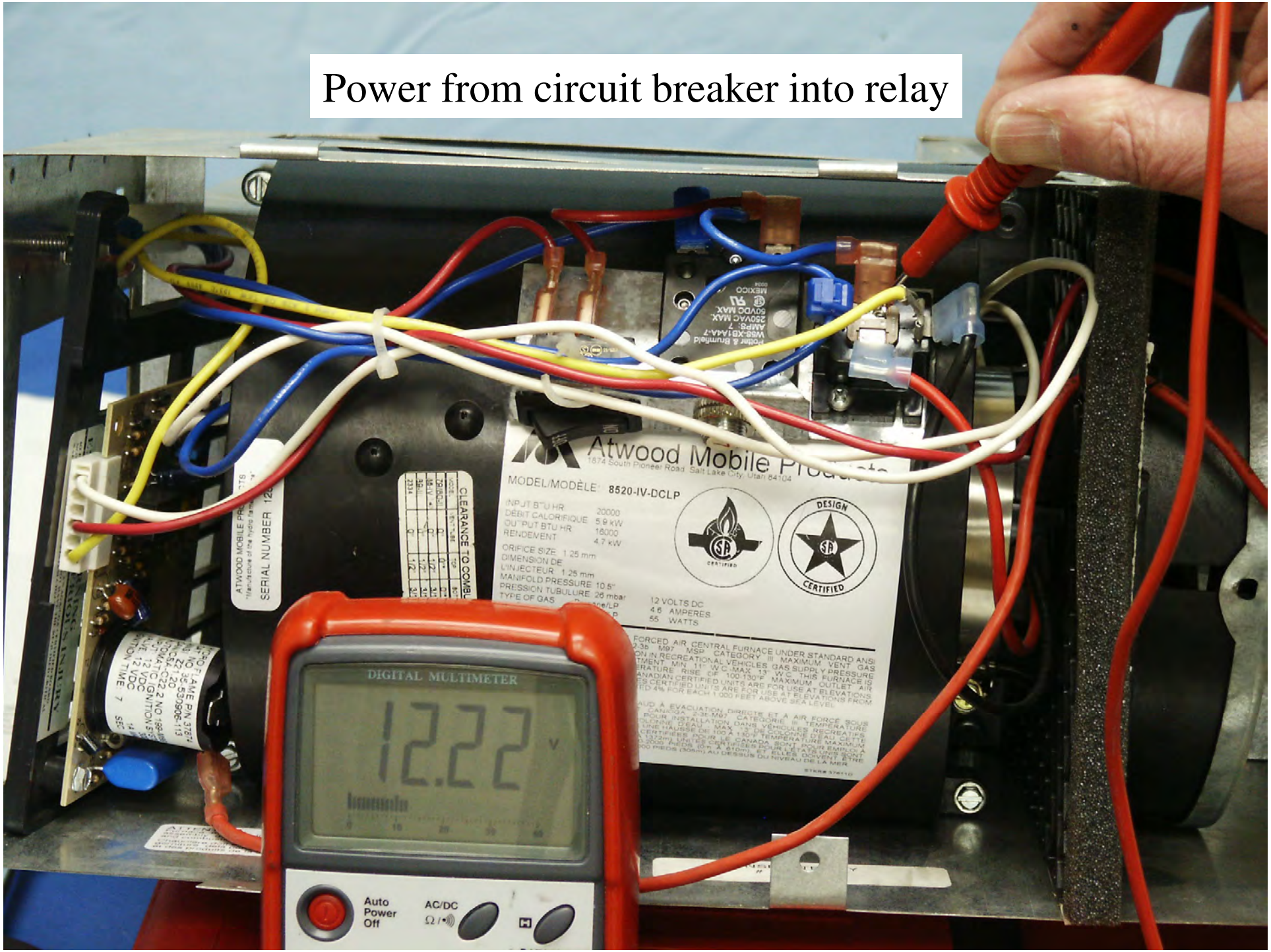
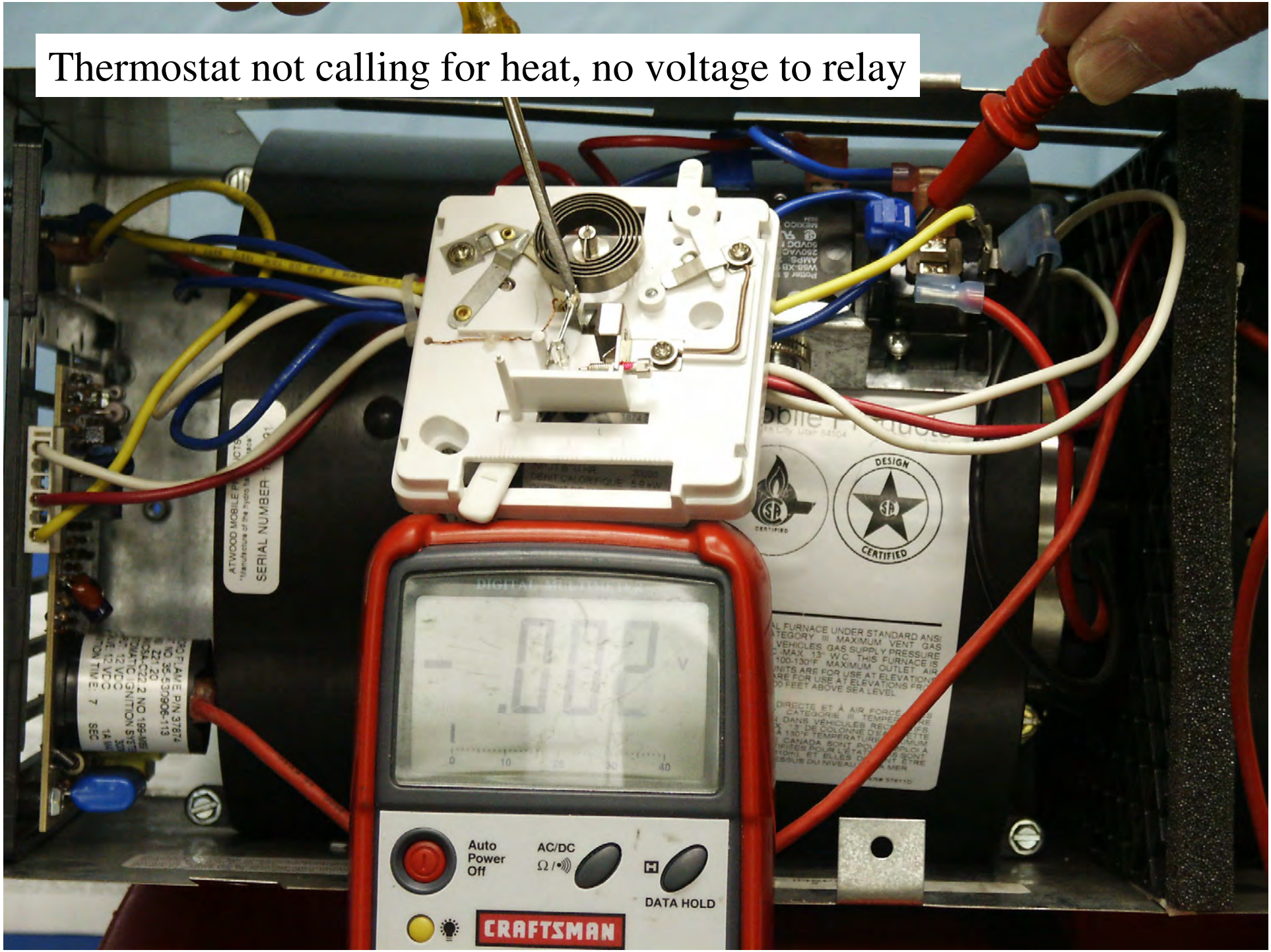
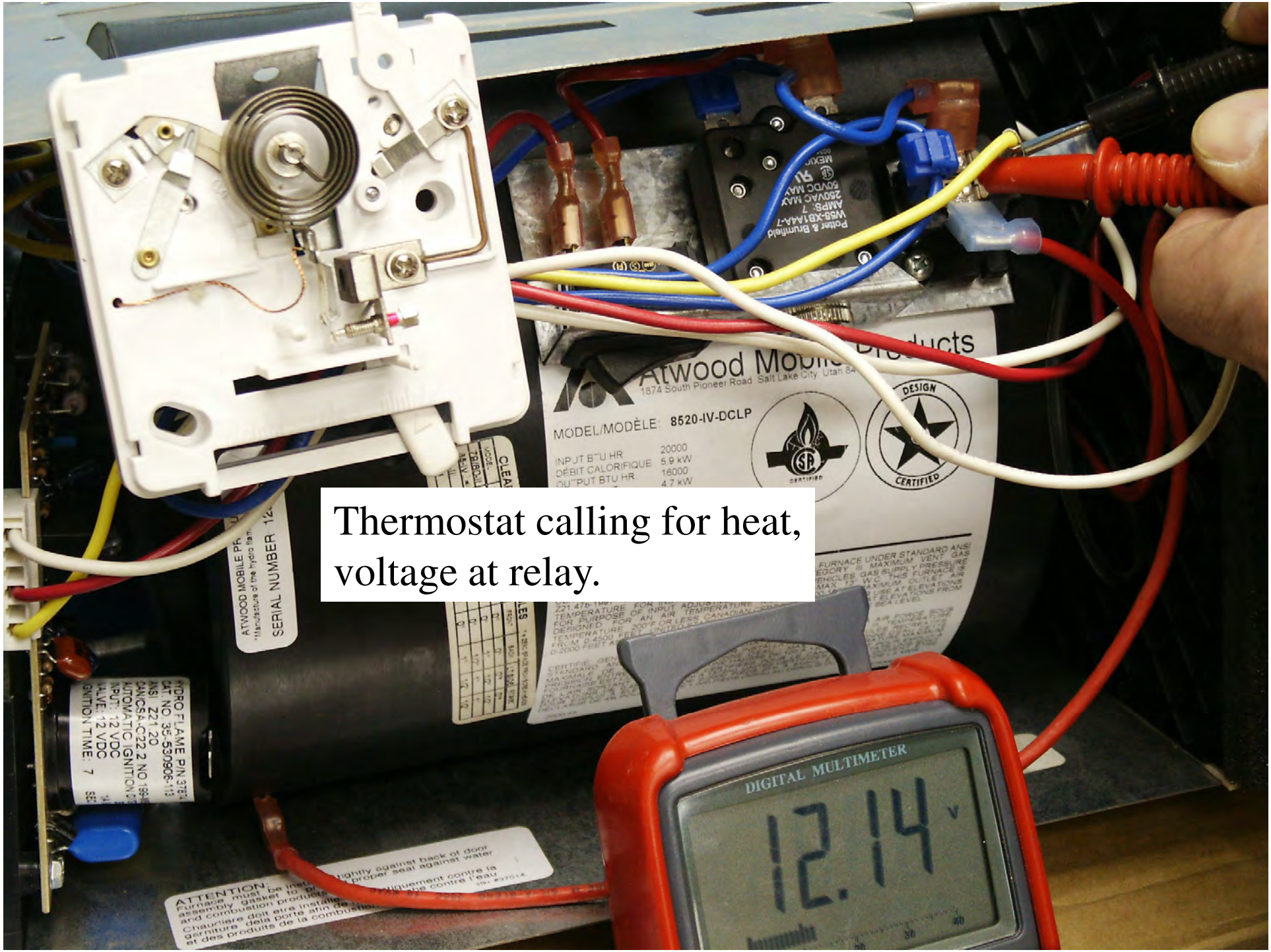
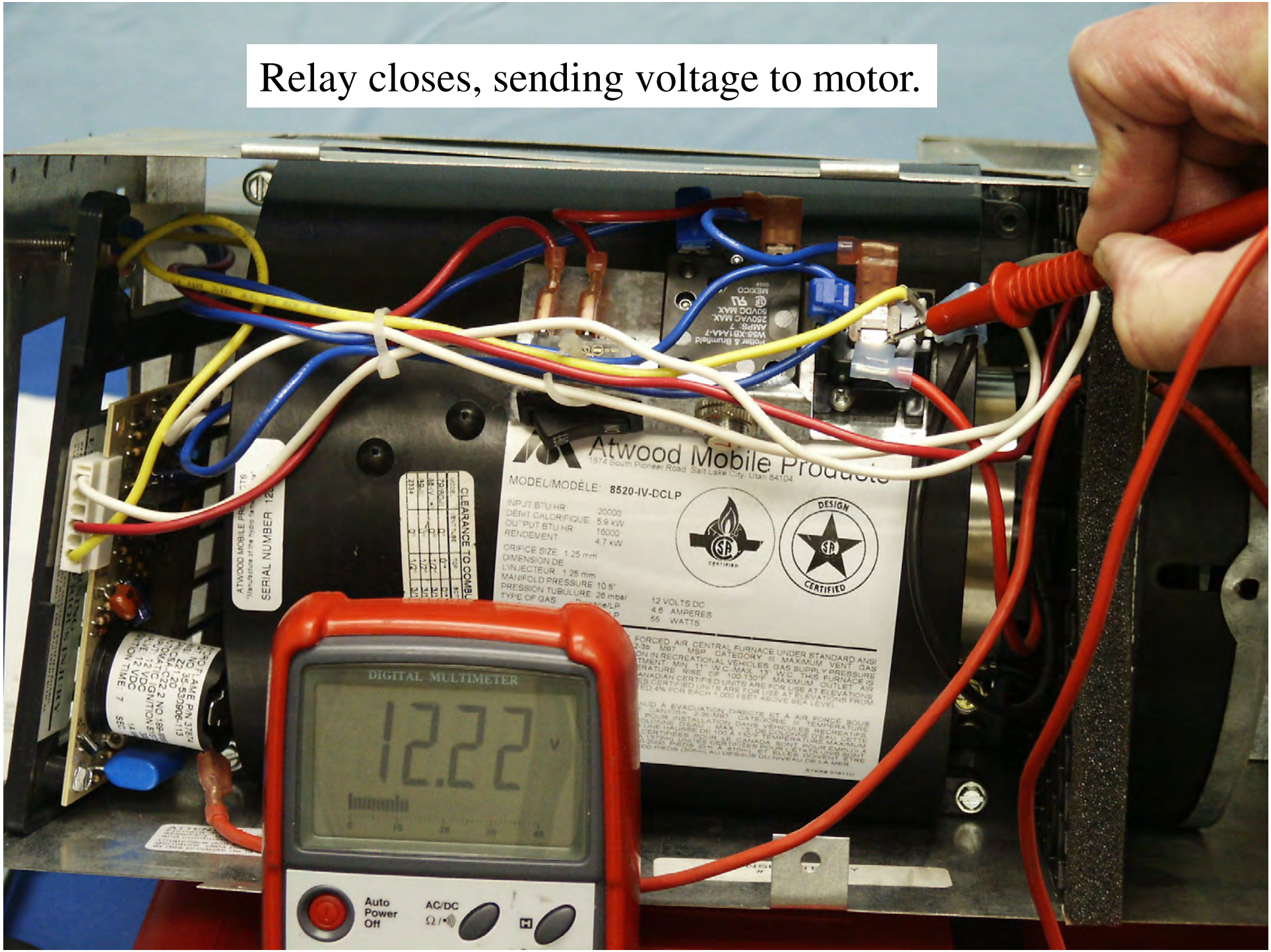
FOR INSTALLATION IN RECREATIONAL VEHICLES. GAS SUPPLY PRESSURE FOR
38148A

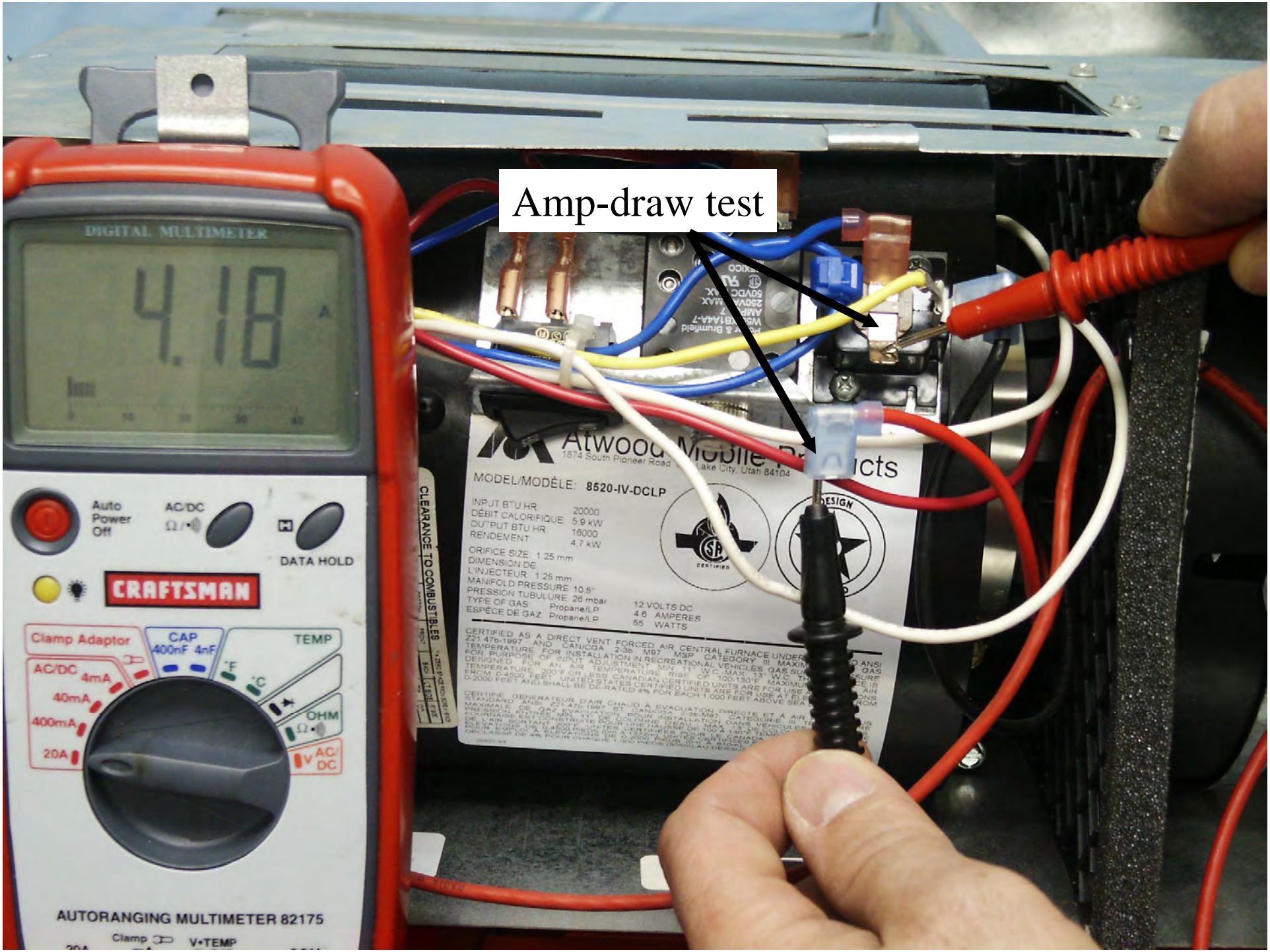

Ground
To motor
Relay
(+) in from
Circuit breaker
(+) in from thermostat

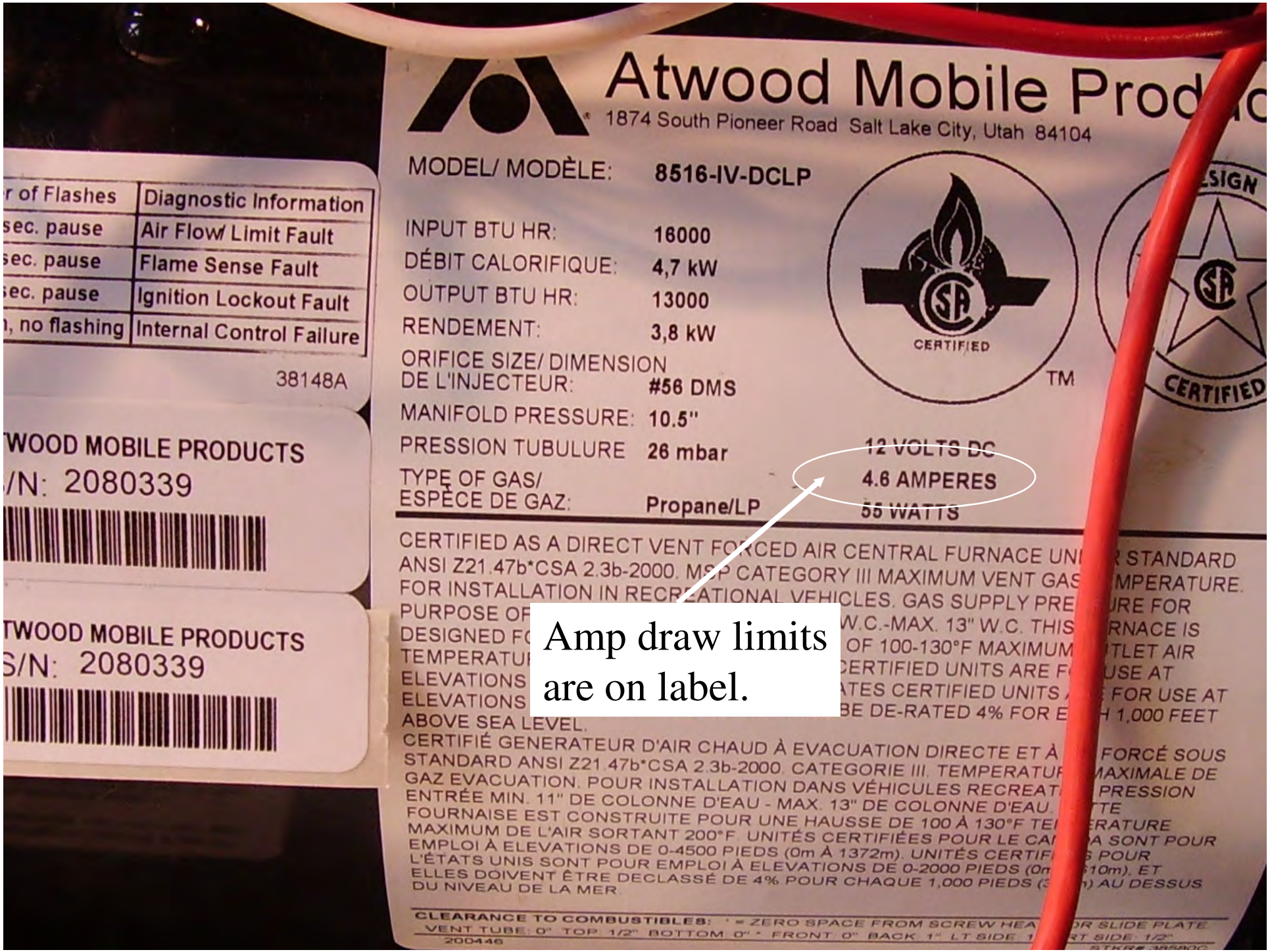

Power from circuit breaker into relay
Atwood Mobile
MODEL/MODÈLE 8520-IV-DCLP
DIGITAL MULTIMETER
12.22
Auto Power Off
AC/DC

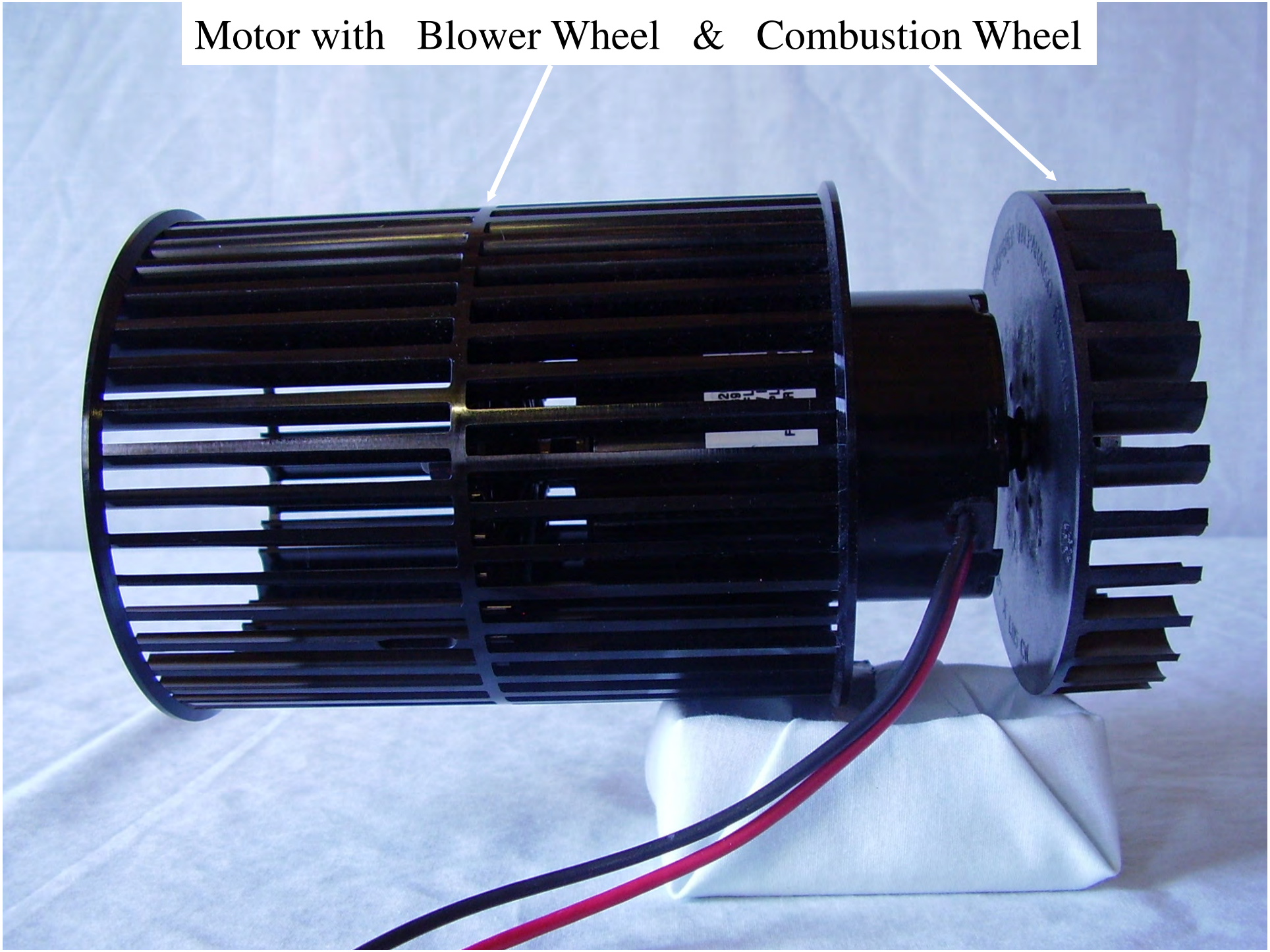

Thermostat not calling for heat, no voltage to relay
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
DESIGN CERTIFIED
SERIAL NUMBER

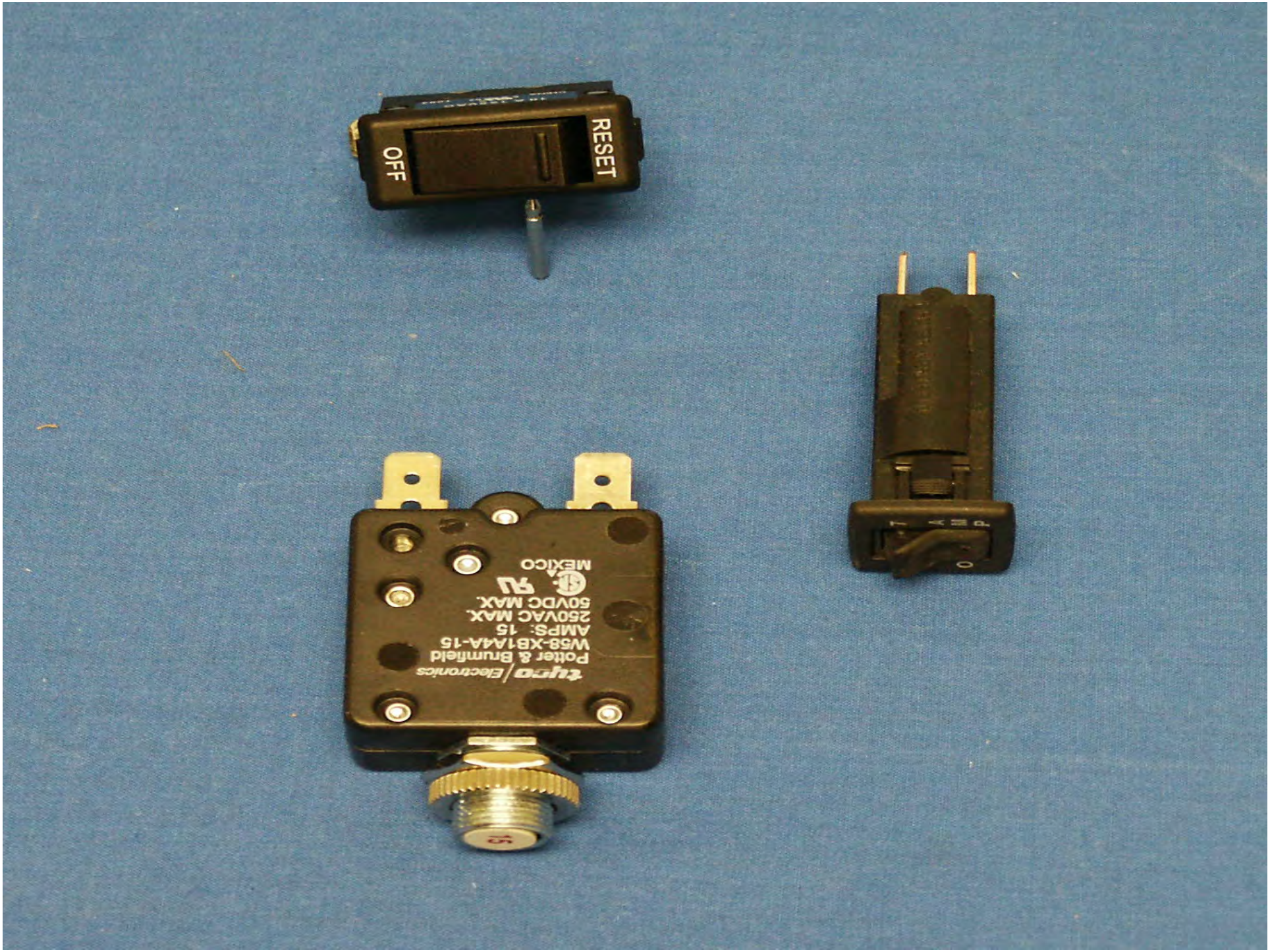

Thermostat calling for heat, voltage at relay.
DIGITAL MULTIMETER
12.14
V
MODEL/MODÈLE 8520-IV-DCLP
SERIAL NUMBER
DESIGN CERTIFIED

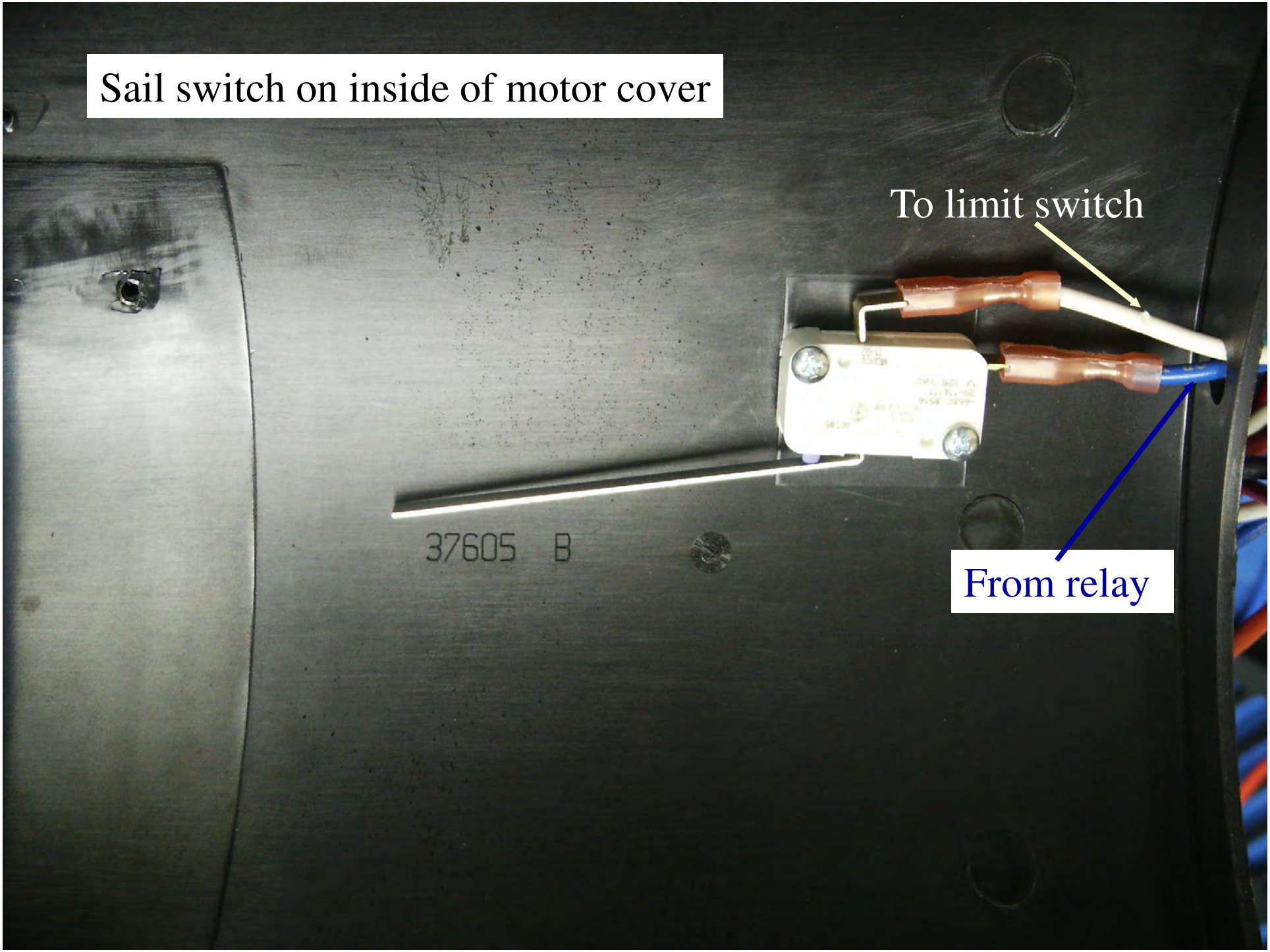

Relay closes, sending voltage to motor.
Atwood Mobile Products
MODEL/MODÈLE: 8520-IV-DCLP
DIGITAL MULTIMETER
12.22
Auto Power Off
AC/DC

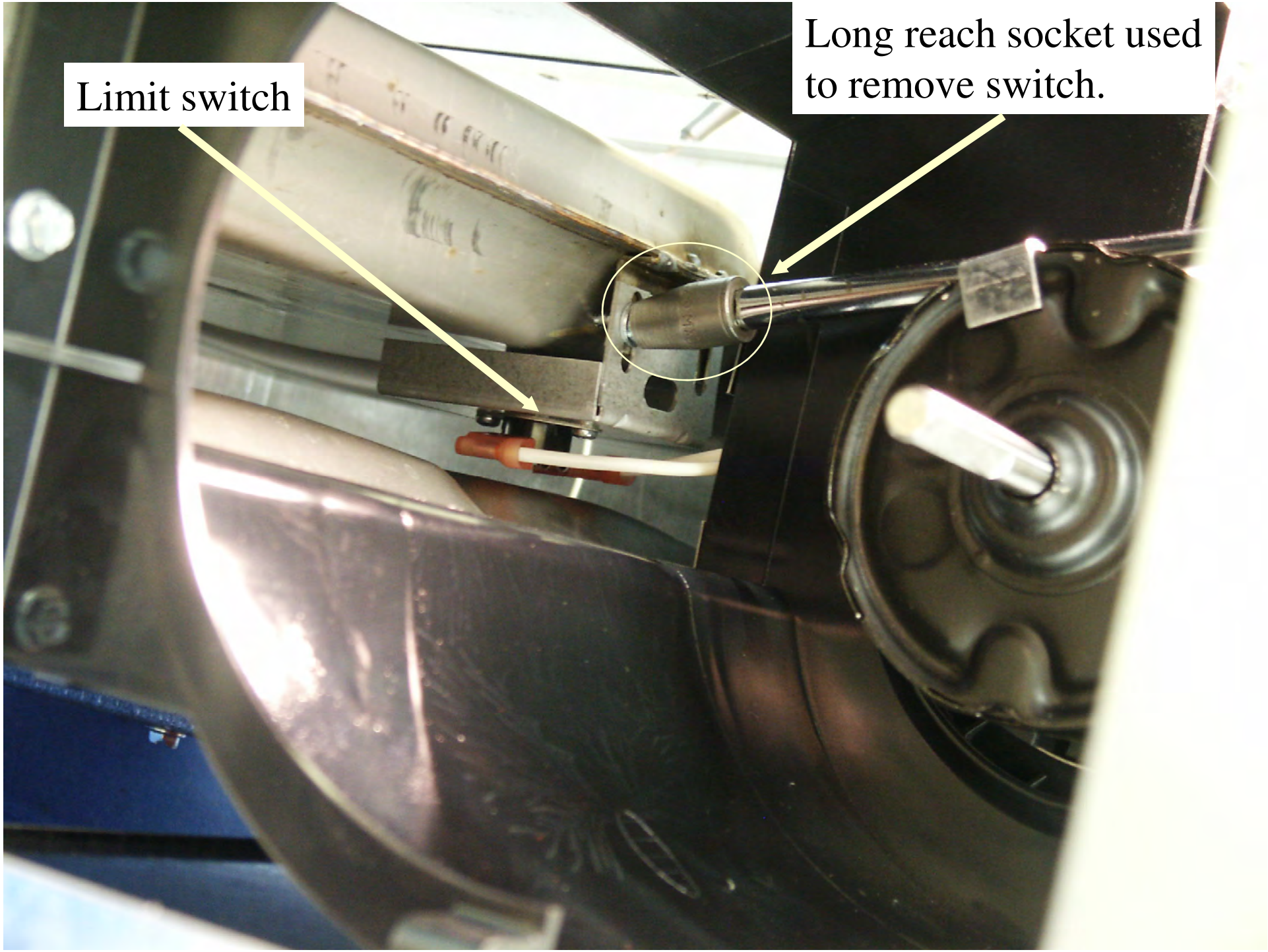

Amp-draw test
DIGITAL MULTIMETER
4.18
A
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
Clamp Adaptor
CAP 400nF 4nF
TEMP
°F
°C
AC/DC 4mA
40mA
400mA
20A
OHM
V AC/DC
AUTORANGING MULTIMETER 82175
Clamp
V•TEMP
MODEL/MODÈLE: 8520-IV-DCLP
INPUT BTU HR 20000
DÉBIT CALORIFIQUE 5.9 kW
OUTPUT BTU HR 16000
RENDEMENT 4.7 kW
ORIFICE SIZE 1.25 mm
DIMENSION DE L'INJECTEUR 1.25 mm
MANIFOLD PRESSURE 10.5"
PRESSION TUBULURE 26 mbar
TYPE OF GAS Propane/LP
ESPÈCE DE GAZ Propane/LP
12 VOLTS DC
4.6 AMPERES
55 WATTS
CLEARANCE TO COMBUSTIBLES

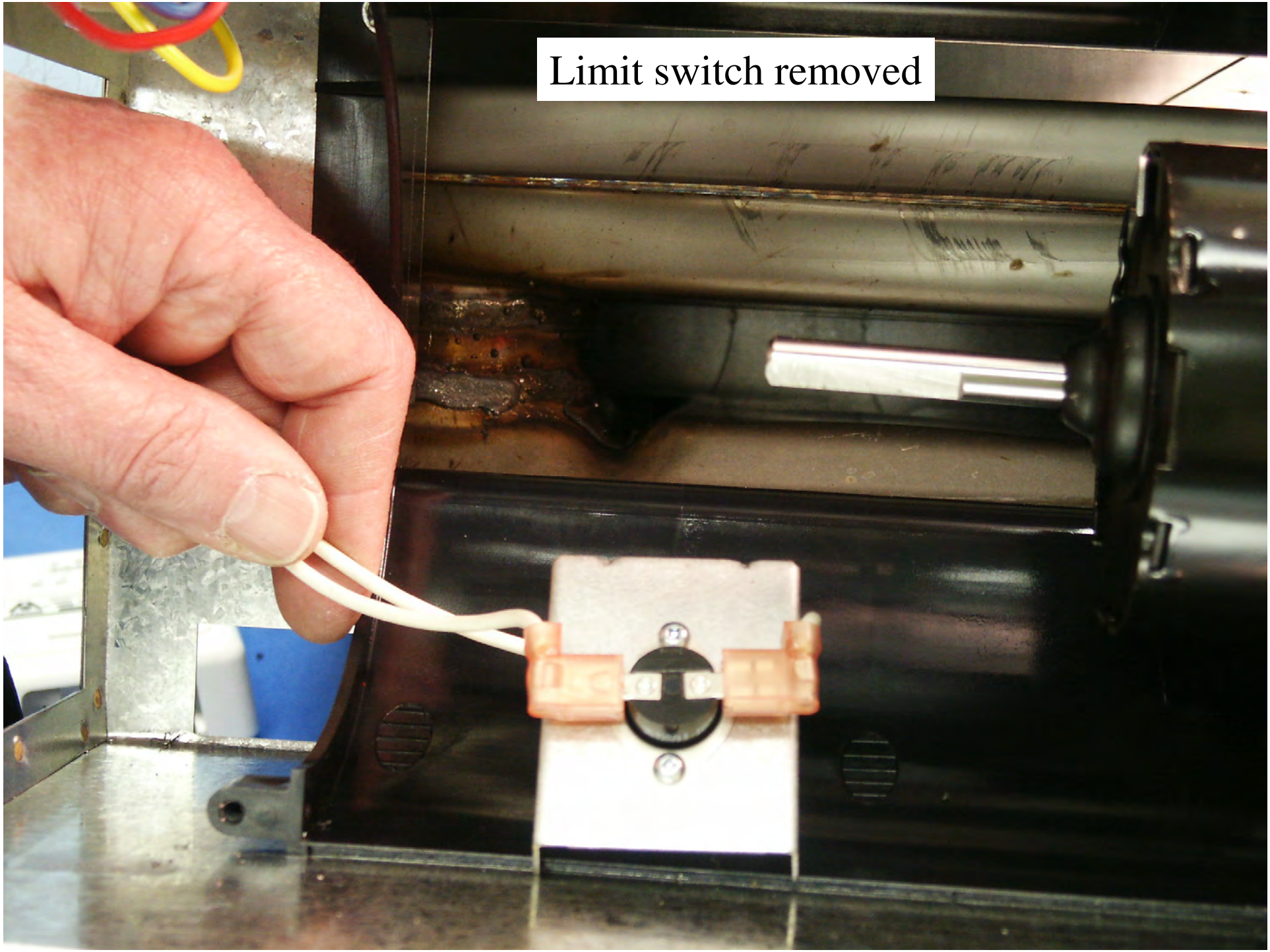

Atwood Mobile Prod
1874 South Pioneer Road Salt Lake City, Utah 84104
MODEL/ MODÈLE: 8516-IV-DCLP
INPUT BTU HR: 16000
DÉBIT CALORIFIQUE: 4,7 kW
OUTPUT BTU HR: 13000
RENDEMENT: 3,8 kW
ORIFICE SIZE/ DIMENSION DE L'INJECTEUR: #56 DMS
MANIFOLD PRESSURE: 10.5"
PRESSION TUBULURE 26 mbar
TYPE OF GAS/ ESPÈCE DE GAZ: Propane/LP
12 VOLTS DC
4.6 AMPERES
55 WATTS
CERTIFIED
TM
CERTIFIED AS A DIRECT VENT FORCED AIR CENTRAL FURNACE UNI
ANSI Z21.47b*CSA 2.3b-2000. MSP CATEGORY III MAXIMUM VENT GAS
FOR INSTALLATION IN RECREATIONAL VEHICLES. GAS SUPPLY PRE
PURPOSE OF
DESIGNED FO
TEMPERATUI
ELEVATIONS
ELEVATIONS
ABOVE SEA LEVEL.
CERTIFIÉ GENERATEUR D'AIR CHAUD À EVACUATION DIRECTE ET À
STANDARD ANSI Z21.47b*CSA 2.3b-2000. CATEGORIE III. TEMPERATUR
GAZ EVACUATION. POUR INSTALLATION DANS VÉHICULES RECREAT
ENTRÉE MIN. 11" DE COLONNE D'EAU - MAX. 13" DE COLONNE D'EAU.
FOURNAISE EST CONSTRUITE POUR UNE HAUSSE DE 100 À 130°F TE
MAXIMUM DE L'AIR SORTANT 200°F. UNITÉS CERTIFIÉES POUR LE CA
EMPLOI À ELEVATIONS DE 0-4500 PIEDS (0m À 1372m). UNITÉS CERTIF
L'ÉTATS UNIS SONT POUR EMPLOI À ELEVATIONS DE 0-2000 PIEDS (0m
ELLES DOIVENT ÊTRE DECLASSÉ DE 4% POUR CHAQUE 1,000 PIEDS (3
DU NIVEAU DE LA MER.
CLEARANCE TO COMBUSTIBLES: * = ZERO SPACE FROM SCREW HEA
VENT TUBE: 0" TOP 1/2" BOTTOM 0" * FRONT 0" BACK 1" LT SIDE 1
200446
r of Flashes | Diagnostic Information
sec. pause | Air Flow/ Limit Fault
sec. pause | Flame Sense Fault
sec. pause | Ignition Lockout Fault
, no flashing | Internal Control Failure
38148A
TWOOD MOBILE PRODUCTS
/N: 2080339
TWOOD MOBILE PRODUCTS
S/N: 2080339
Amp draw limits are on label.

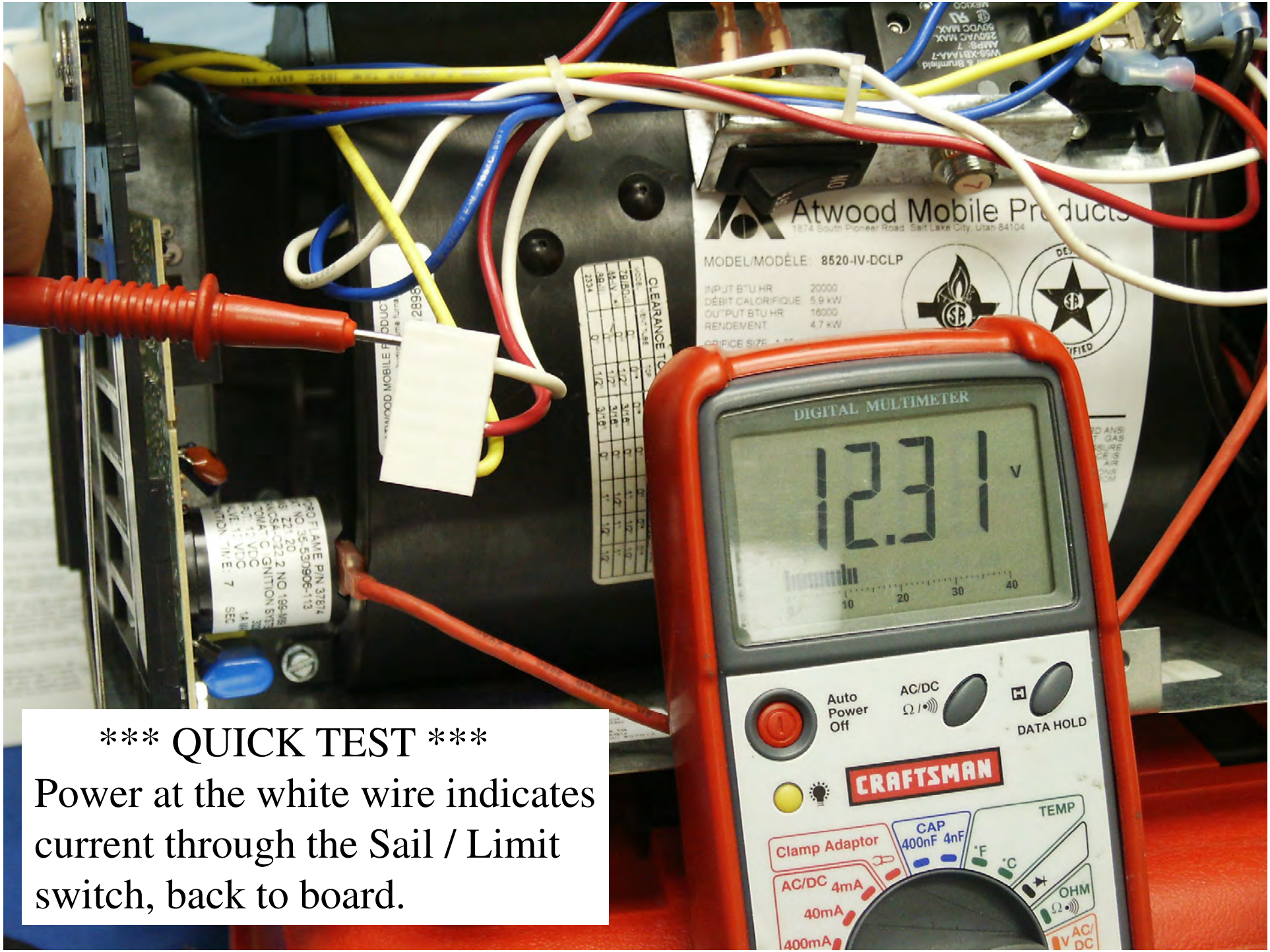

Motor with Blower Wheel & Combustion Wheel


OFF
RESET
tyco/Electronics
Potter & Brumfield
W58-XB1A4A-15
AMPS: 15
250VAC MAX.
50VDC MAX.
MEXICO
1
0


Sail switch on inside of motor cover
To limit switch
From relay
37605 B


Limit switch
Long reach socket used to remove switch.

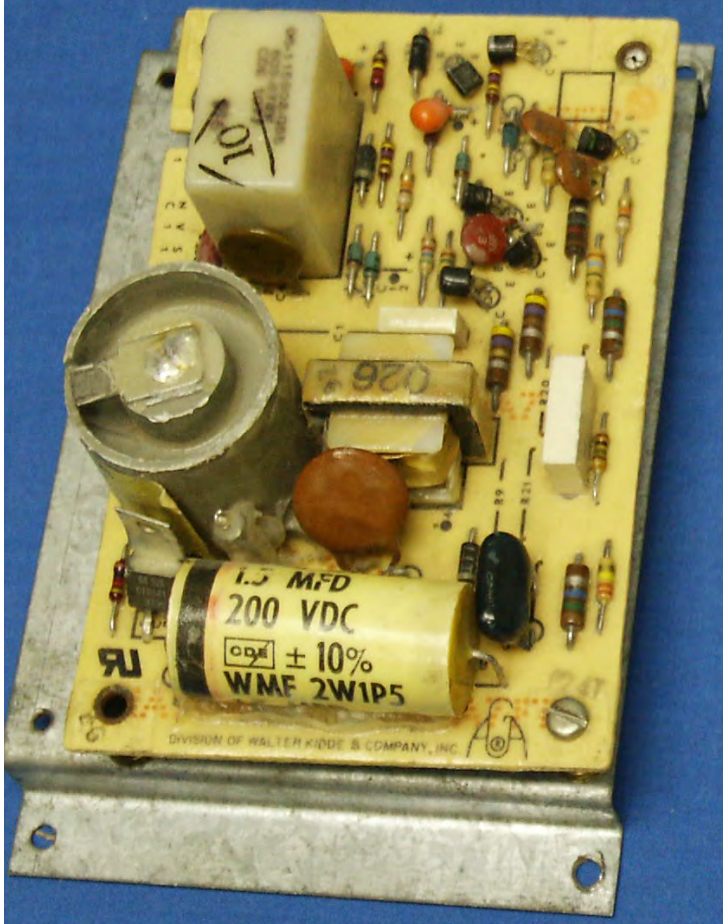

Limit switch removed



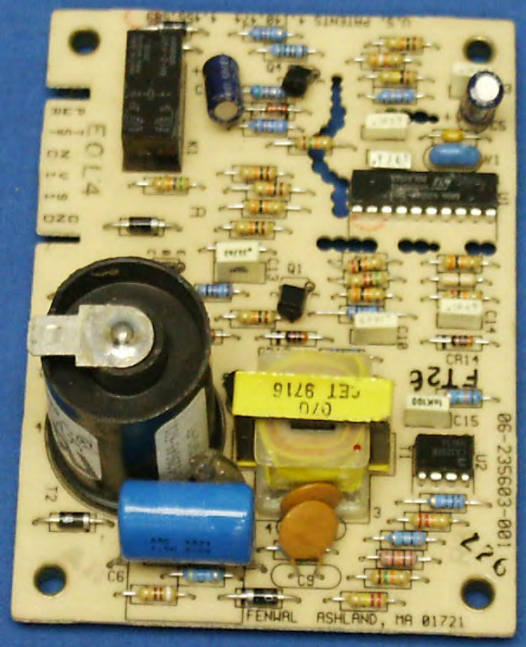
*** QUICK TEST ***

Power at the white wire indicates current through the Sail / Limit switch, back to board.

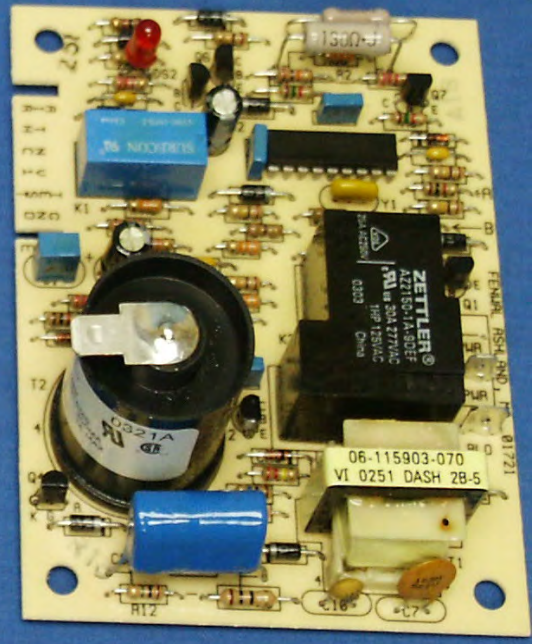
Previous ignition control boards



Single try with external relay.

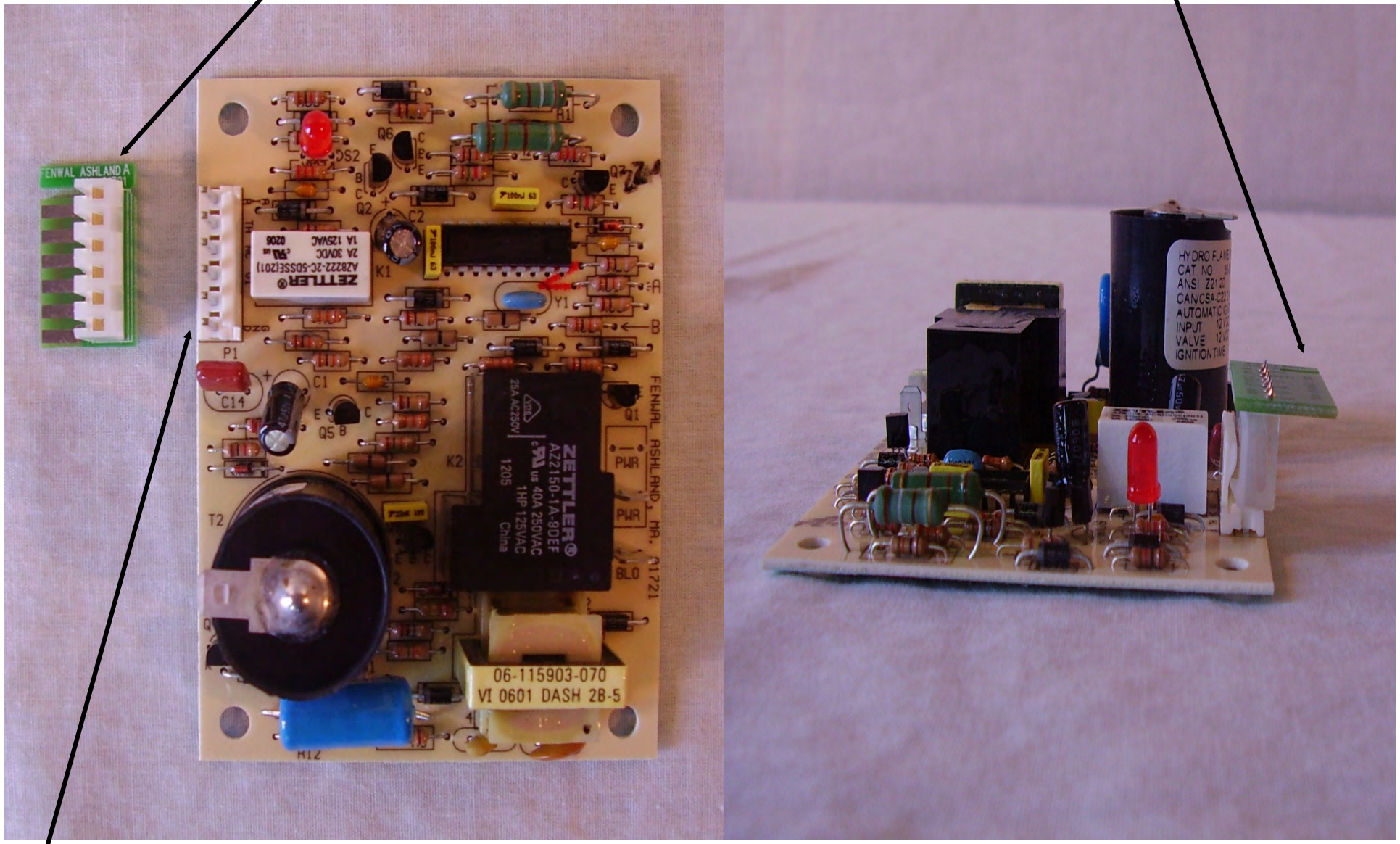


Three try with external relay.



Three try with built in relay.

New board with adapter for old connector.



New push pin style connector

Sequence of Operation - DC Models

The ON/OFF switch allows power to pass to the circuit breaker and the thermostat.

↓

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↓

The circuit breaker limits amperage draw of motor.

↓

The relay allows current to pass to the motor by closing a switch within the relay. A heater coil within the relay actuates a bimetal disc which closes the relay circuit. This takes 17-20 seconds.

↓

Current flows to the motor to operate the blower. One end of the motor shaft is for the circulating air wheel and the other side is for the combustion air wheel.

↓

Circulating air blows against the sail switch and closes the contacts, completing the circuit. The sail switch is a safety device that insures air flow before ignition.

↓

The limit switch is a safety device that protects the furnace from over heating. The contacts in the limit switch open at a given temperature setting, shutting off power to the electronic ignition system that controls the gas valve.

↓

As power is applied to the circuit board, the system does the following:

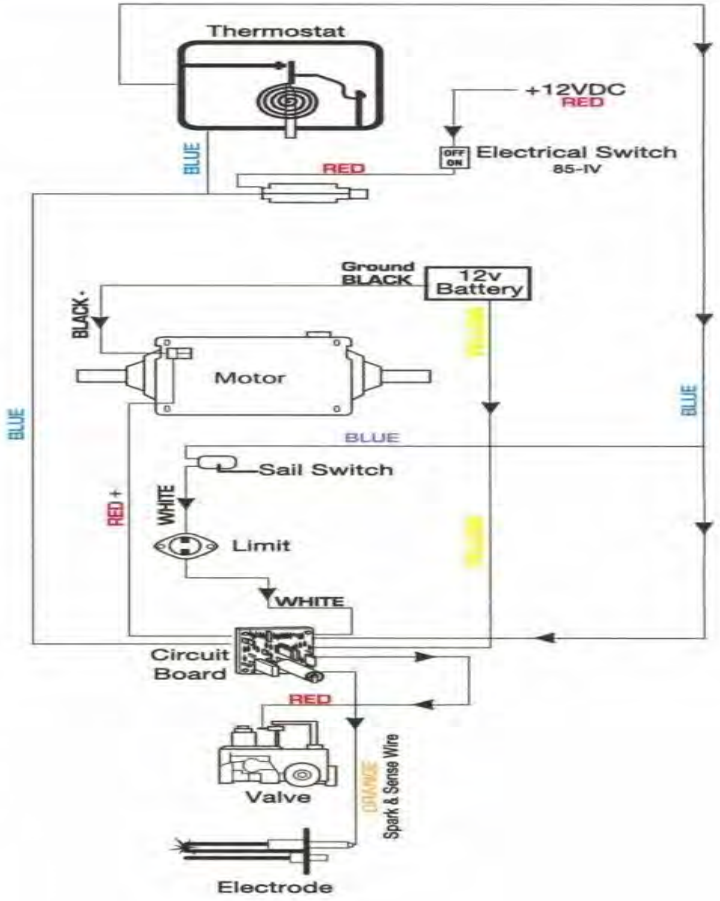
1. A timing circuit allows the blower to purge the chamber (15-17 seconds)
2. The board supplies current to the gas valve and causes it to open. A manual electrical switch is provided and must be in the "ON" position for current to reach the valve.
3. As the valve opens, the board sends a high voltage spark to the electrode at the burner. The board detects the presence of a flame. If the flame is not sensed after approximately six seconds, the board will lock out (three try for ignition, one hour lockout and then three retry), shutting off power to the valve.
4. If the system does not ignite and the thermostat remains closed, the blower will remain on until the thermostat is reset manually.

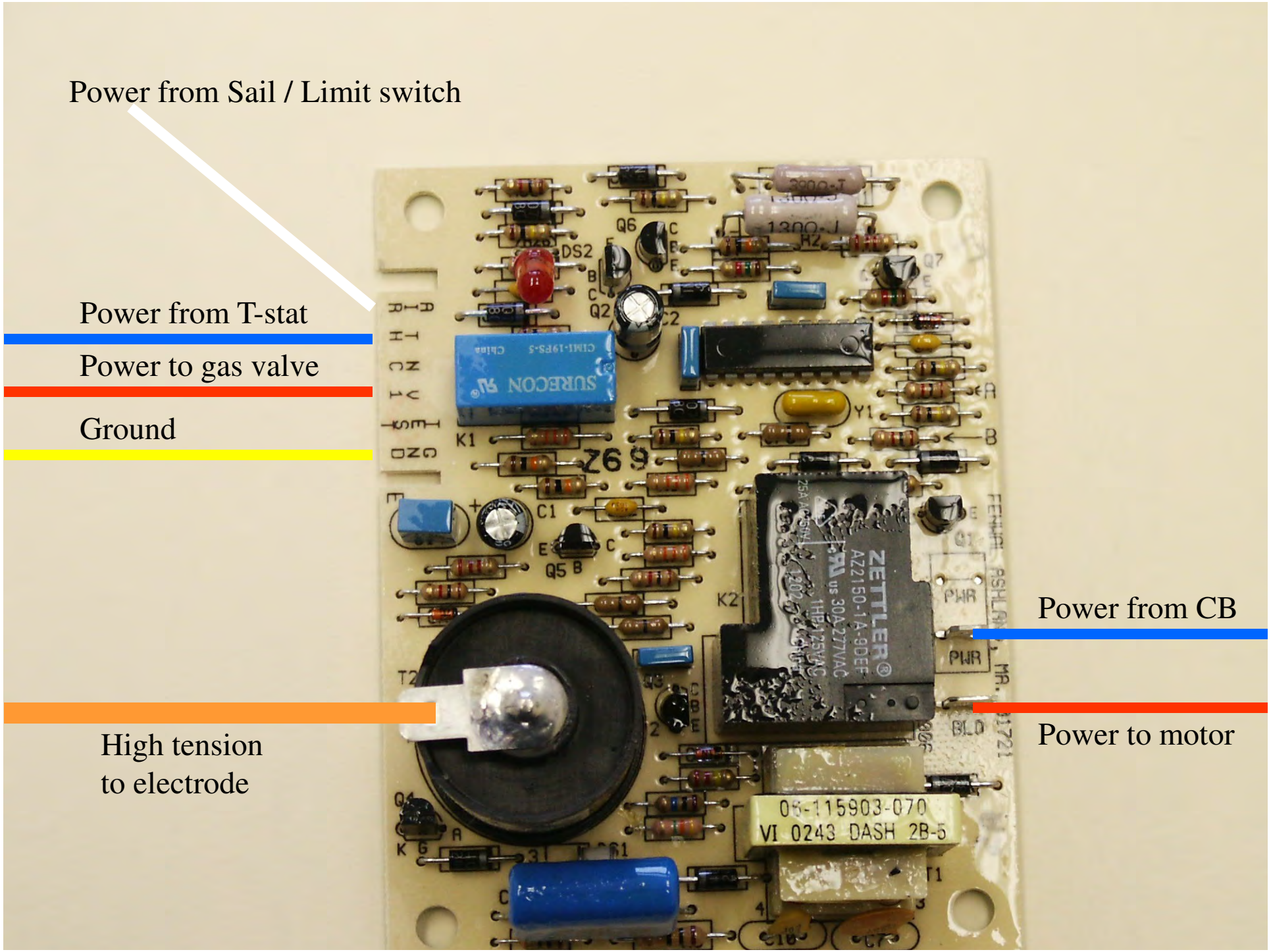
↓

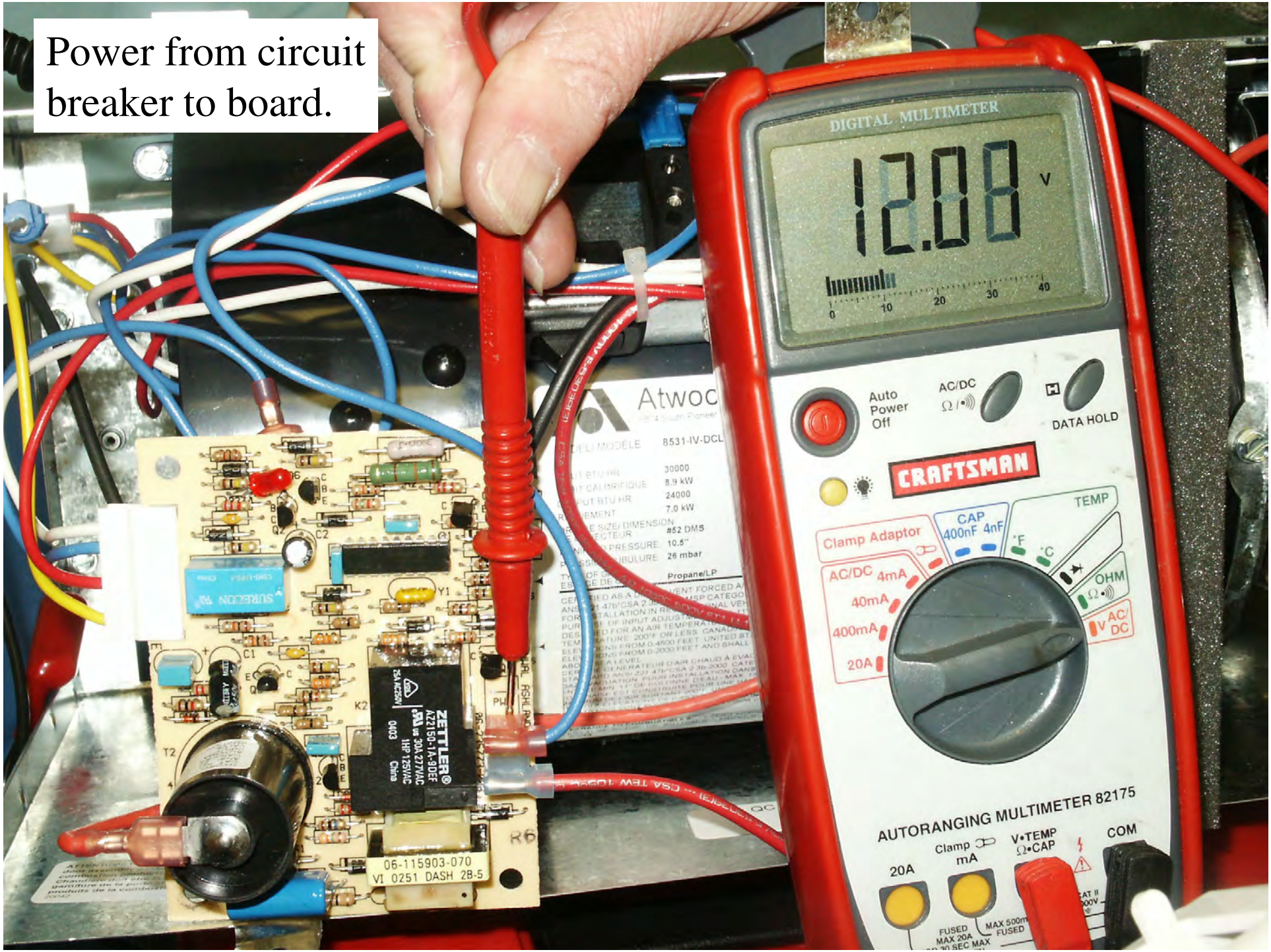
When the thermostat senses the desired room air temperature, the contacts open, removing power from the ignition system and shutting off the gas valve. The blower runs until the heater in the relay cools and opens the circuit, shutting off current to the motor.

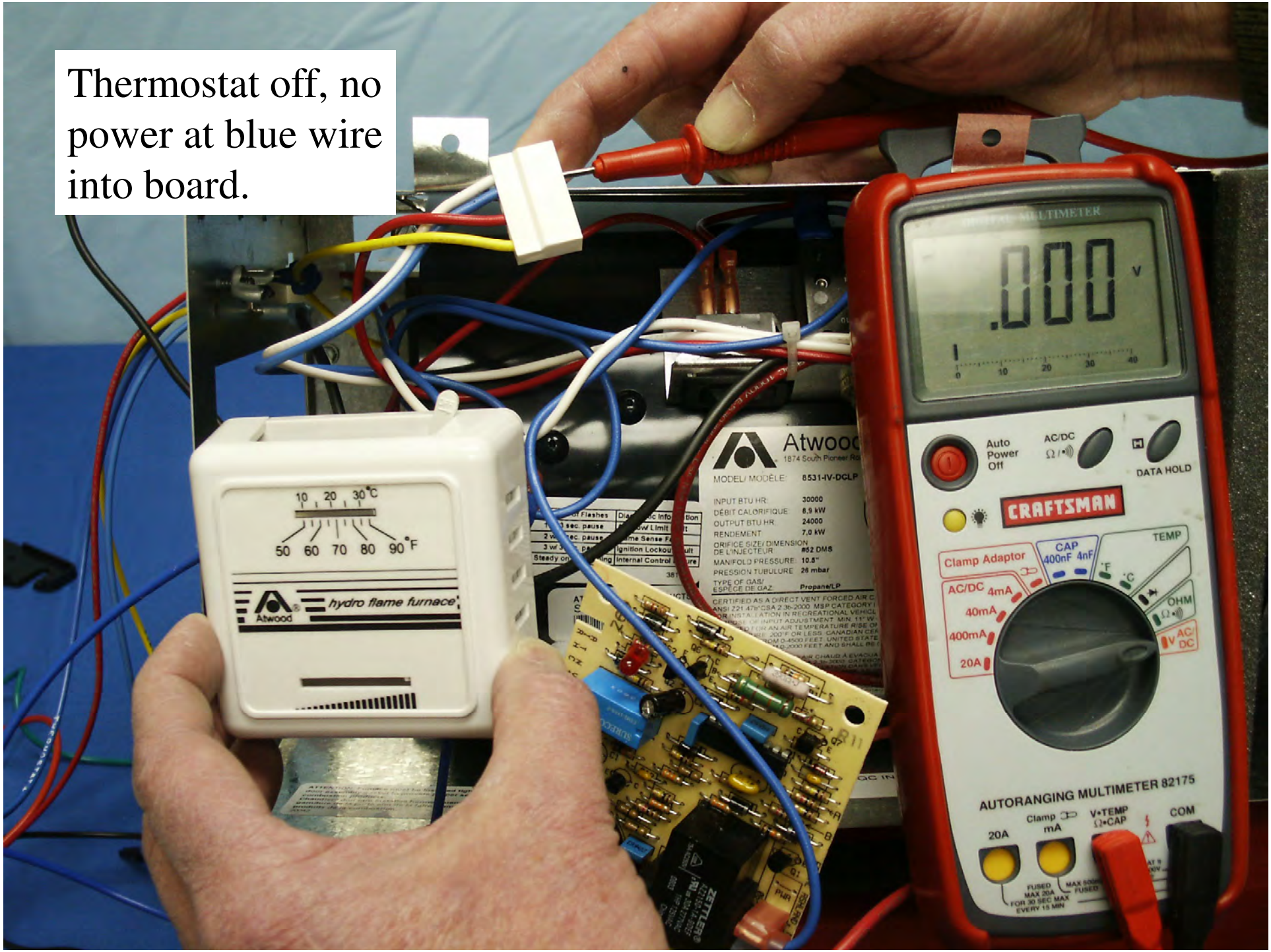
⚠ WARNING
FURNACE PRODUCES HIGH TEMPERATURE

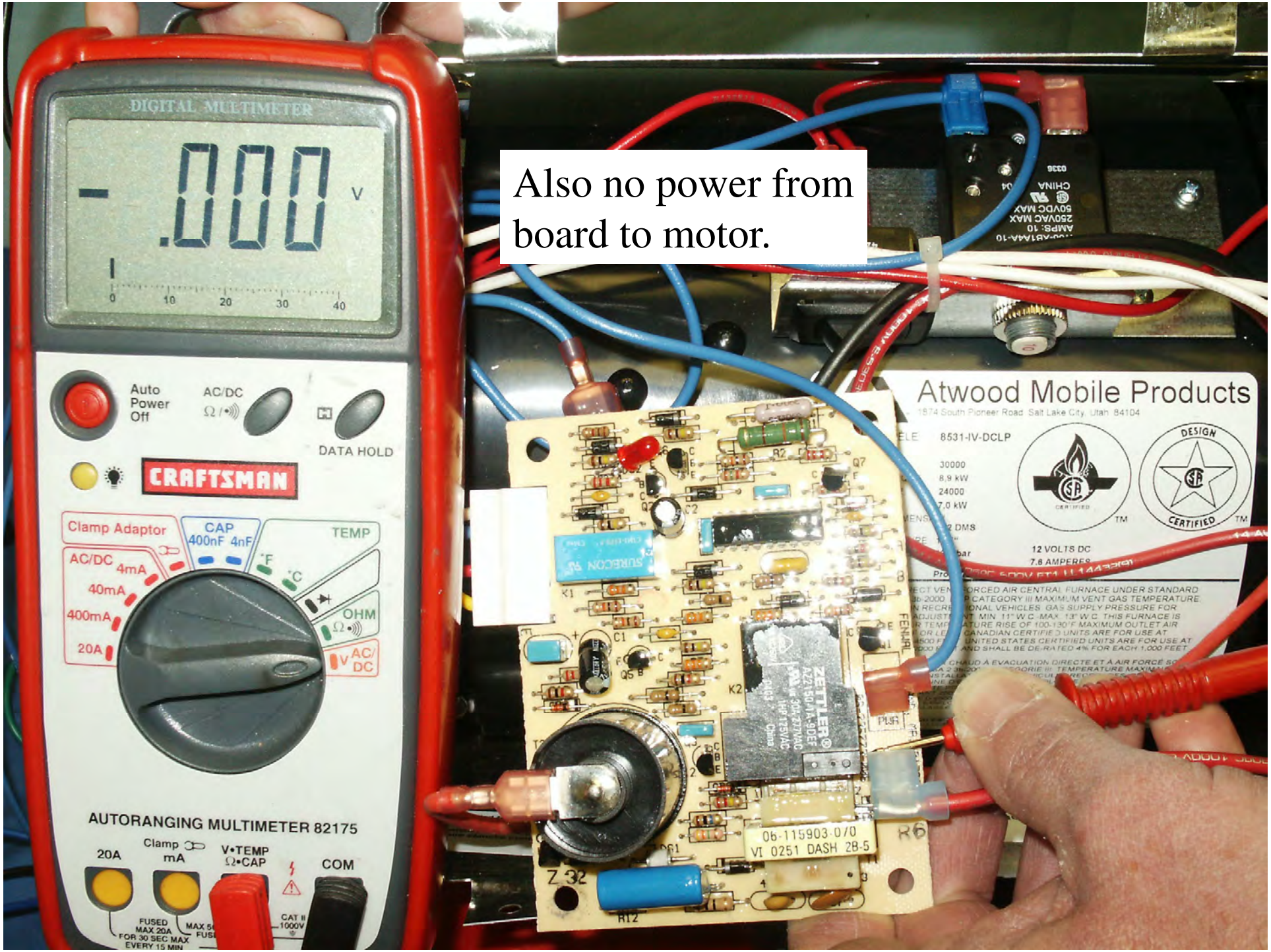
- Locate furnace out of traffic and away from furniture and draperies.
- Do not touch or put combustibles near appliance. Hot surface temperature may occur.
- Supervise young children in the same room as the furnace.
- Do not place clothing or flammable materials on or near the furnace.

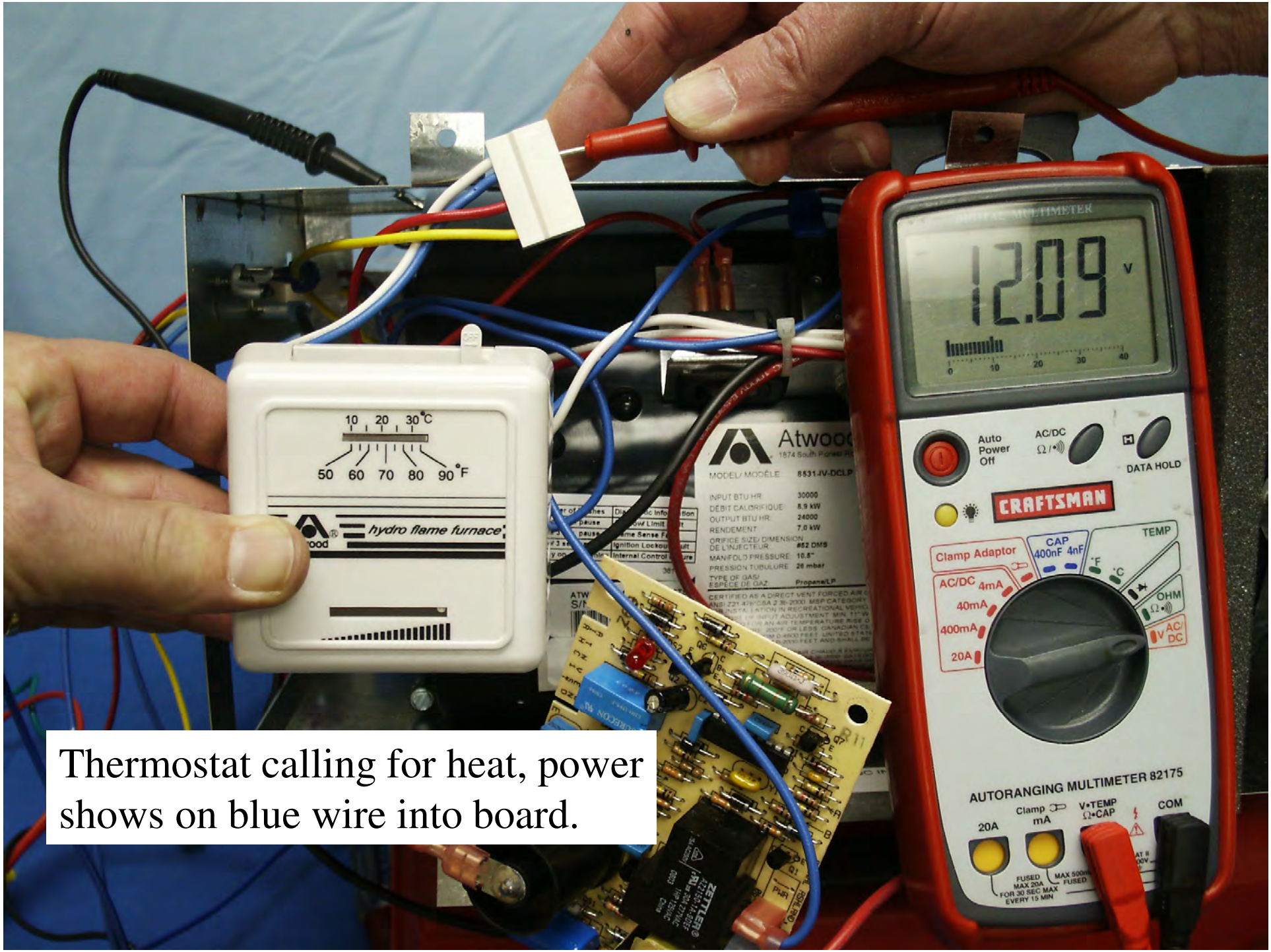



Power from Sail / Limit switch
Power from T-stat
Power to gas valve
Ground
High tension
to electrode
Power from CB
Power to motor
Z69
ZETTLER
AZ2150-1A-9DEF
08-115903-070
VI 0243 DASH 2B-5
PWR
BLO

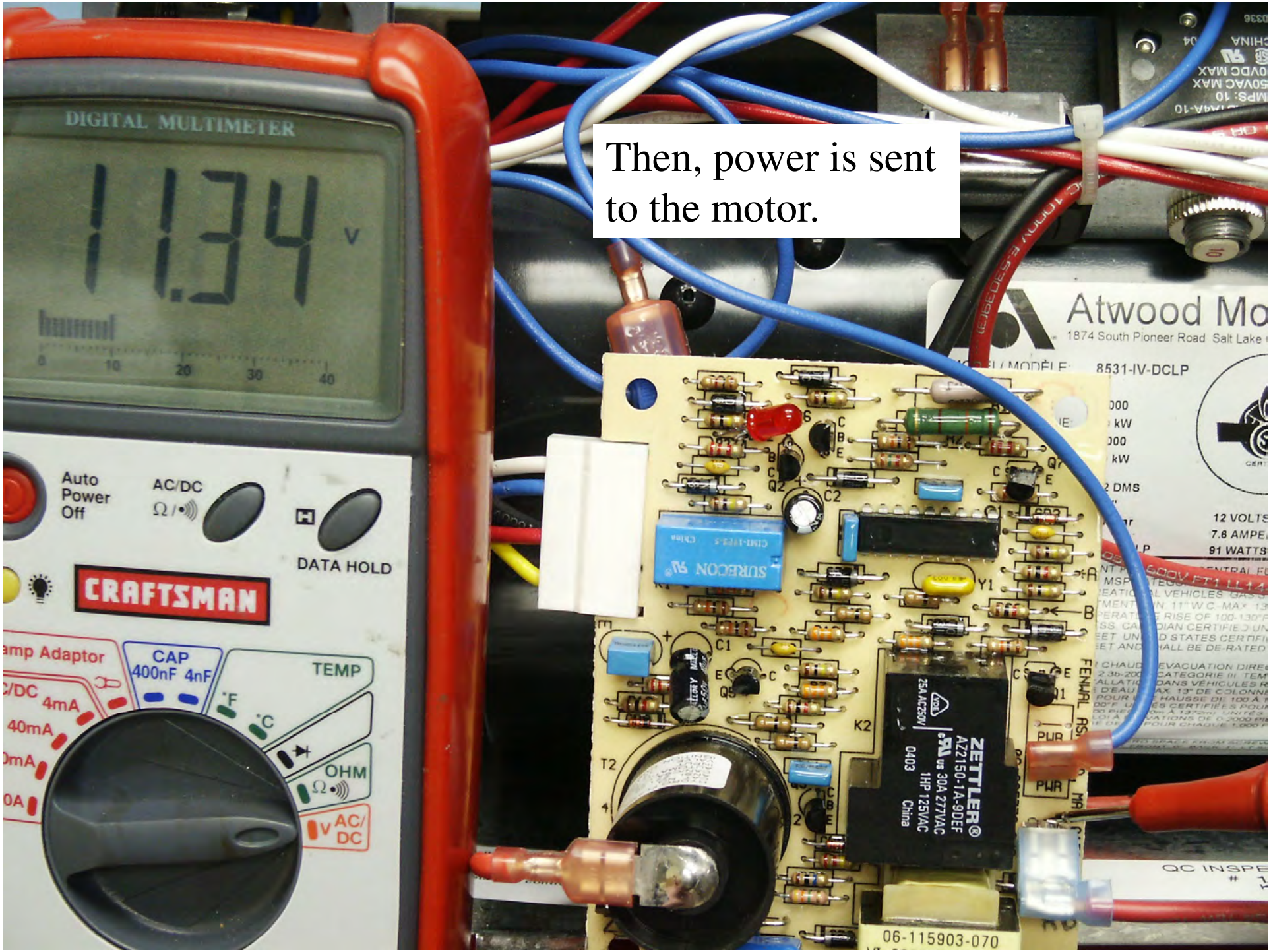

Power from circuit breaker to board.
DIGITAL MULTIMETER
12.08
V
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
Clamp Adaptor
CAP 400nF 4nF
TEMP
°F
°C
OHM
AC/DC 4mA
40mA
400mA
20A
V AC/DC
AUTORANGING MULTIMETER 82175
20A
Clamp mA
V•TEMP Ω•CAP
COM
ZETTLER
AZ2150-1A-9DEF
30A 277VAC
1HP 125VAC
China
0403
06-115903-070
VI 0251 DASH 2B-5
8531-IV-DCL
30000
8.9 kW
24000
7.0 kW
#52 DMS
10.5"
26 mbar
Propane/LP

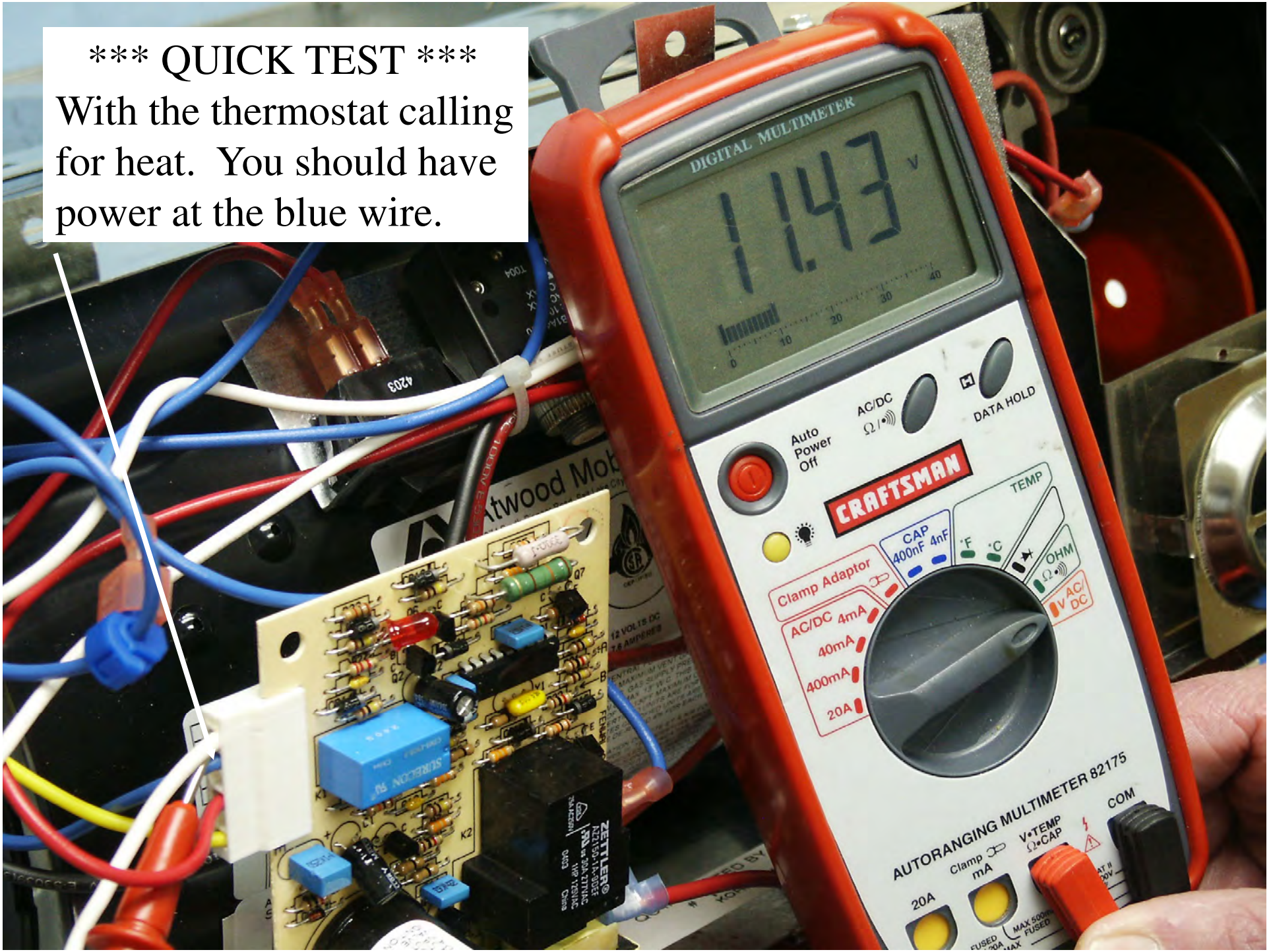

Thermostat off, no power at blue wire into board.
.000
CRAFTSMAN
AUTORANGING MULTIMETER 82175
hydro flame furnace
Atwood

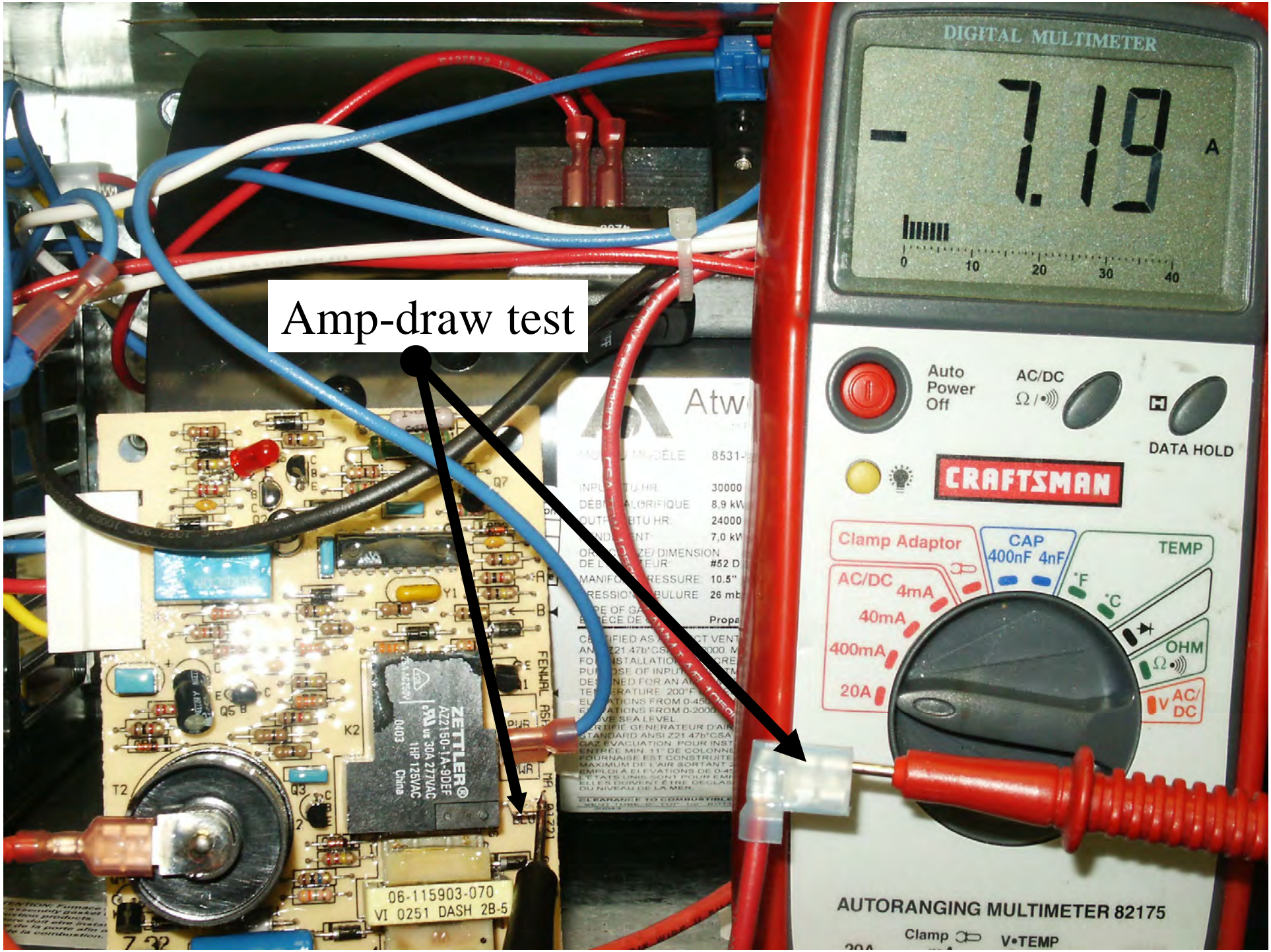

Also no power from board to motor.
DIGITAL MULTIMETER
- .000 V
CRAFTSMAN
AUTORANGING MULTIMETER 82175
Atwood Mobile Products
8531-IV-DCLP
12 VOLTS DC
7.8 AMPERES
06-115903-0/0
VI 0251 DASH 2B-5

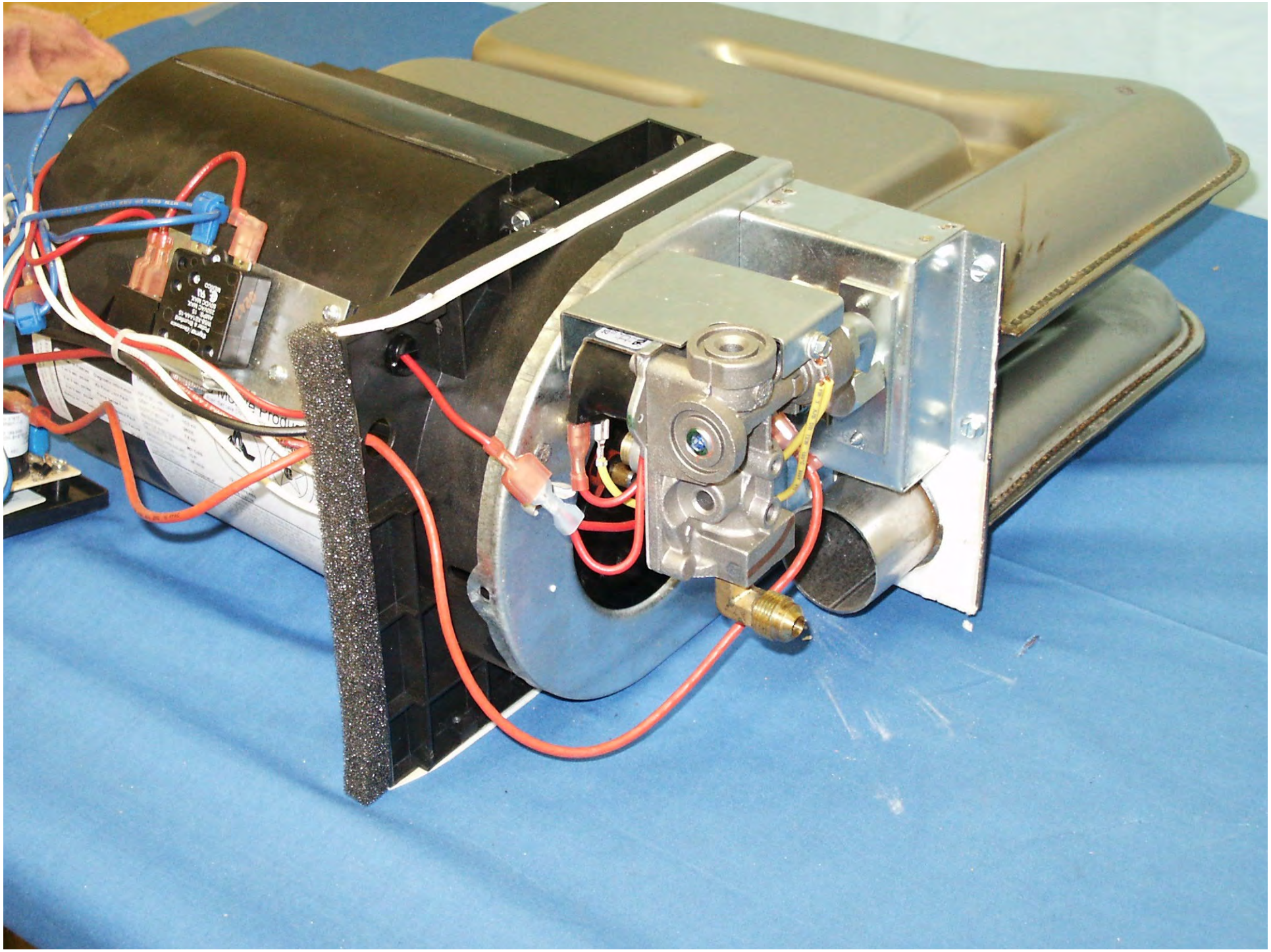


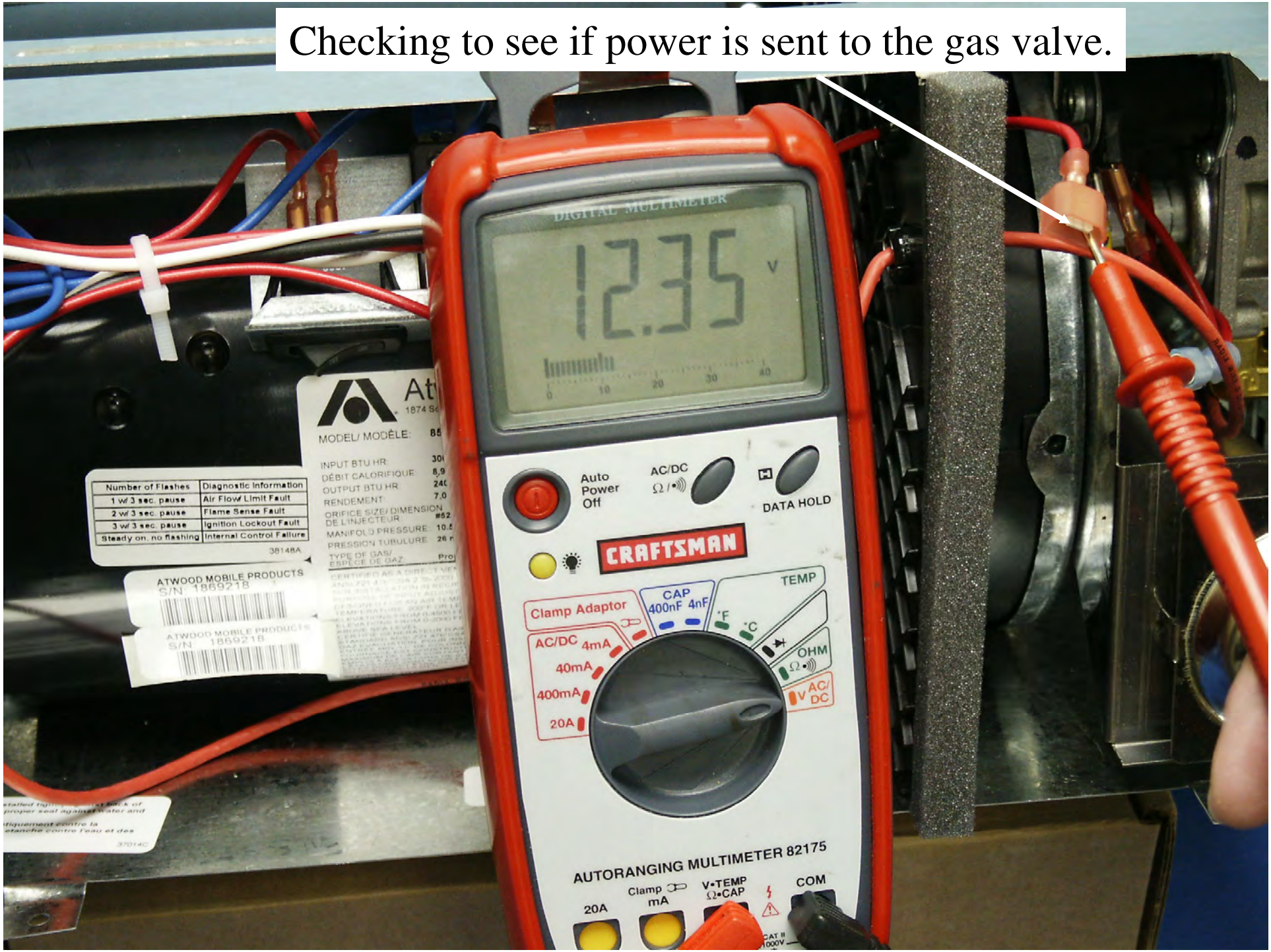
Thermostat calling for heat, power shows on blue wire into board.

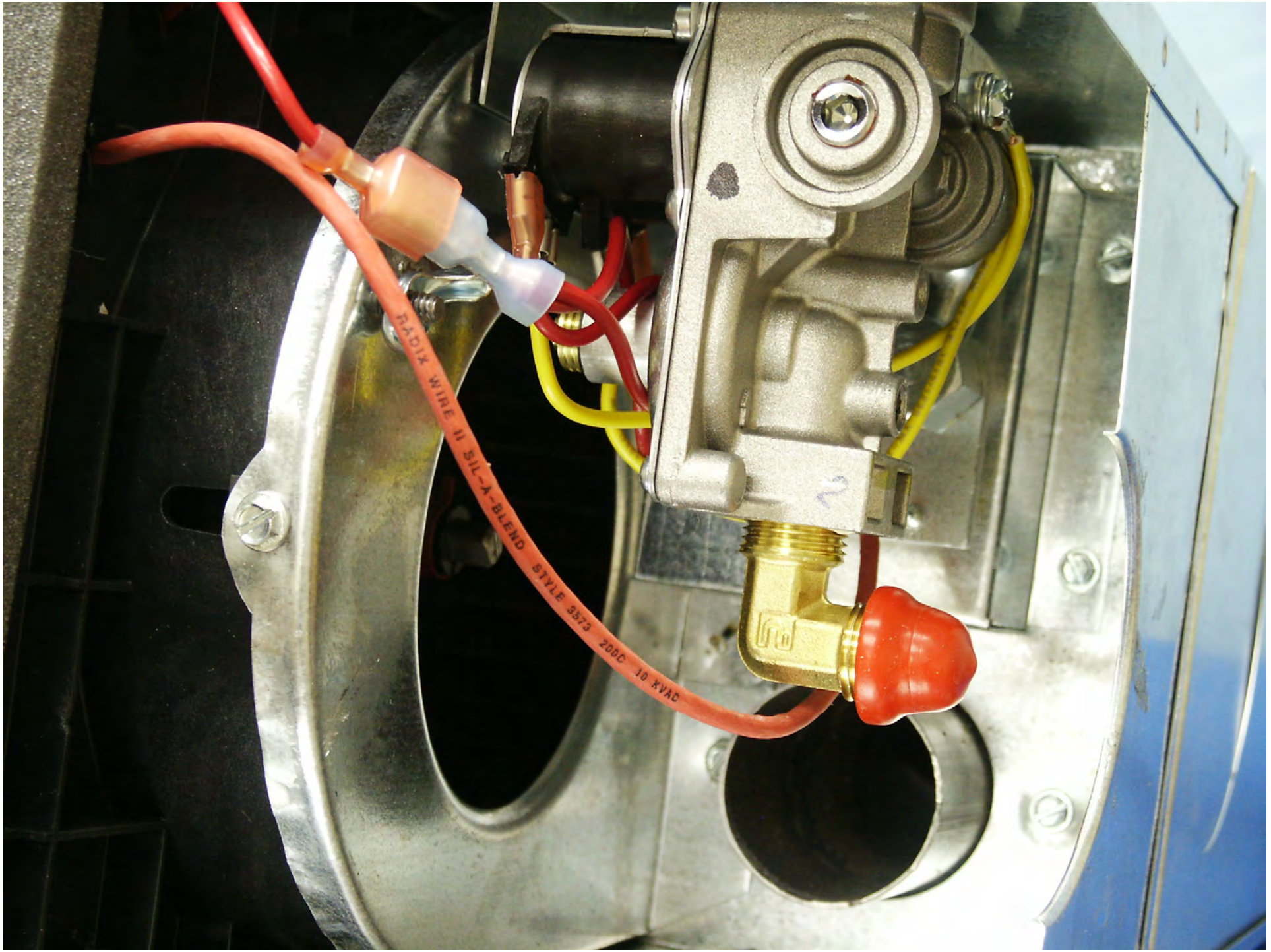

DIGITAL MULTIMETER
11.34
V
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
CAP 400nF 4nF
TEMP
OHM
AC/DC
Then, power is sent to the motor.
Atwood Mo
1874 South Pioneer Road Salt Lake
8531-IV-DCLP
12 VOLTS
7.8 AMPE
91 WATTS
ZETTLER
AZ2150-1A-9DEF
30A 277VAC
1HP 125VAC
China
06-115903-070


*** QUICK TEST ***
With the thermostat calling for heat. You should have power at the blue wire.
DIGITAL MULTIMETER
11.43
V
CRAFTSMAN
Auto Power Off
AC/DC
DATA HOLD
TEMP
CAP 400nF 4nF
°F
°C
OHM
Clamp Adaptor
AC/DC 4mA
40mA
400mA
20A
V AC/DC
AUTORANGING MULTIMETER 82175
Clamp mA
V•TEMP Ω•CAP
COM
20A
mA
ZETTLER
4203

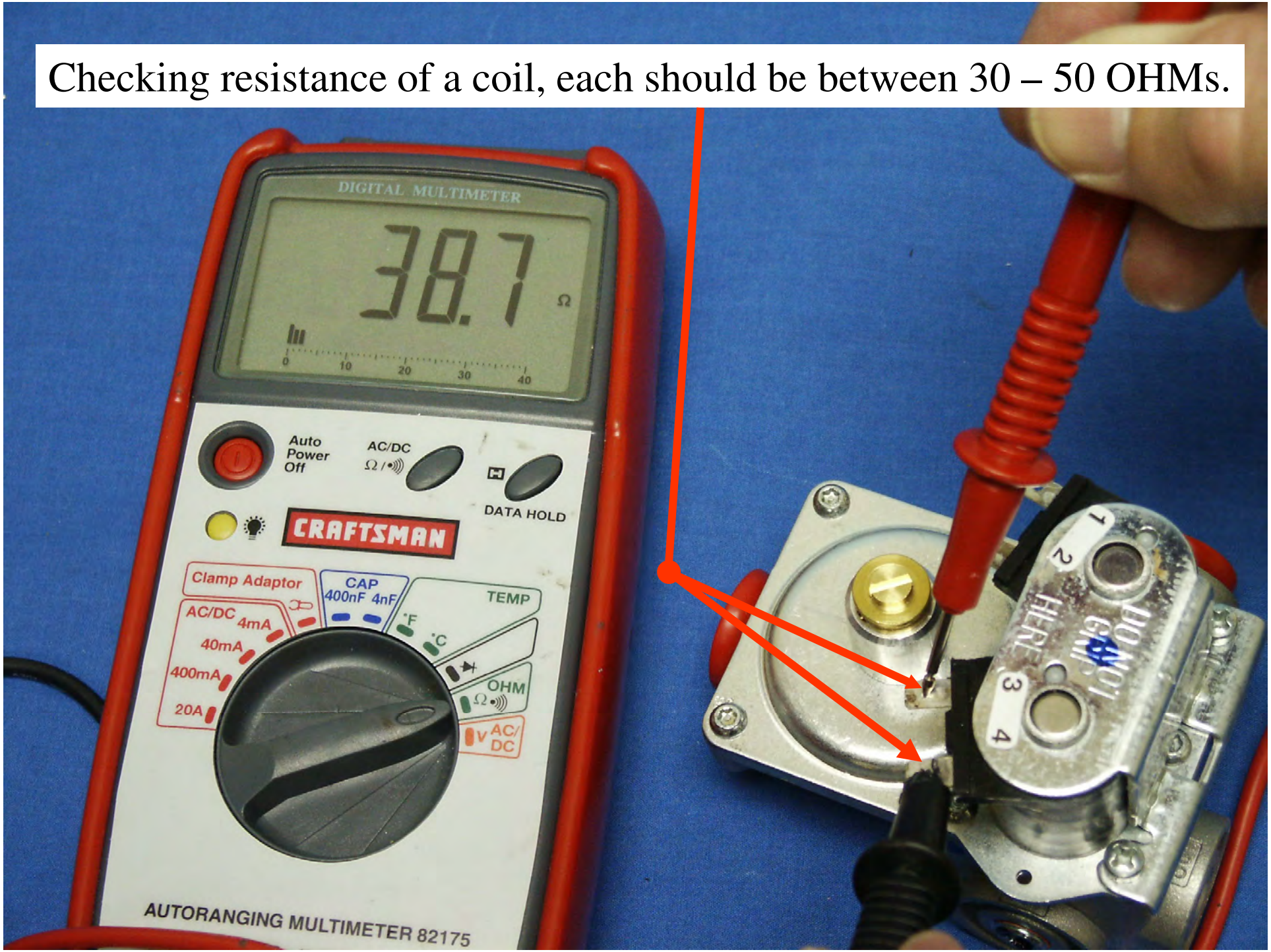

Amp-draw test
DIGITAL MULTIMETER
- 7.19 A
0 10 20 30 40
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
Clamp Adaptor
CAP 400nF 4nF
TEMP
AC/DC 4mA
40mA
400mA
20A
°F
°C
OHM
V AC/DC
AUTORANGING MULTIMETER 82175
Clamp
V•TEMP
ZETTLER
AZ2150-1A-9DEF
1HP 125VAC
China
06-115903-070
VI 0251 DASH 2B-5

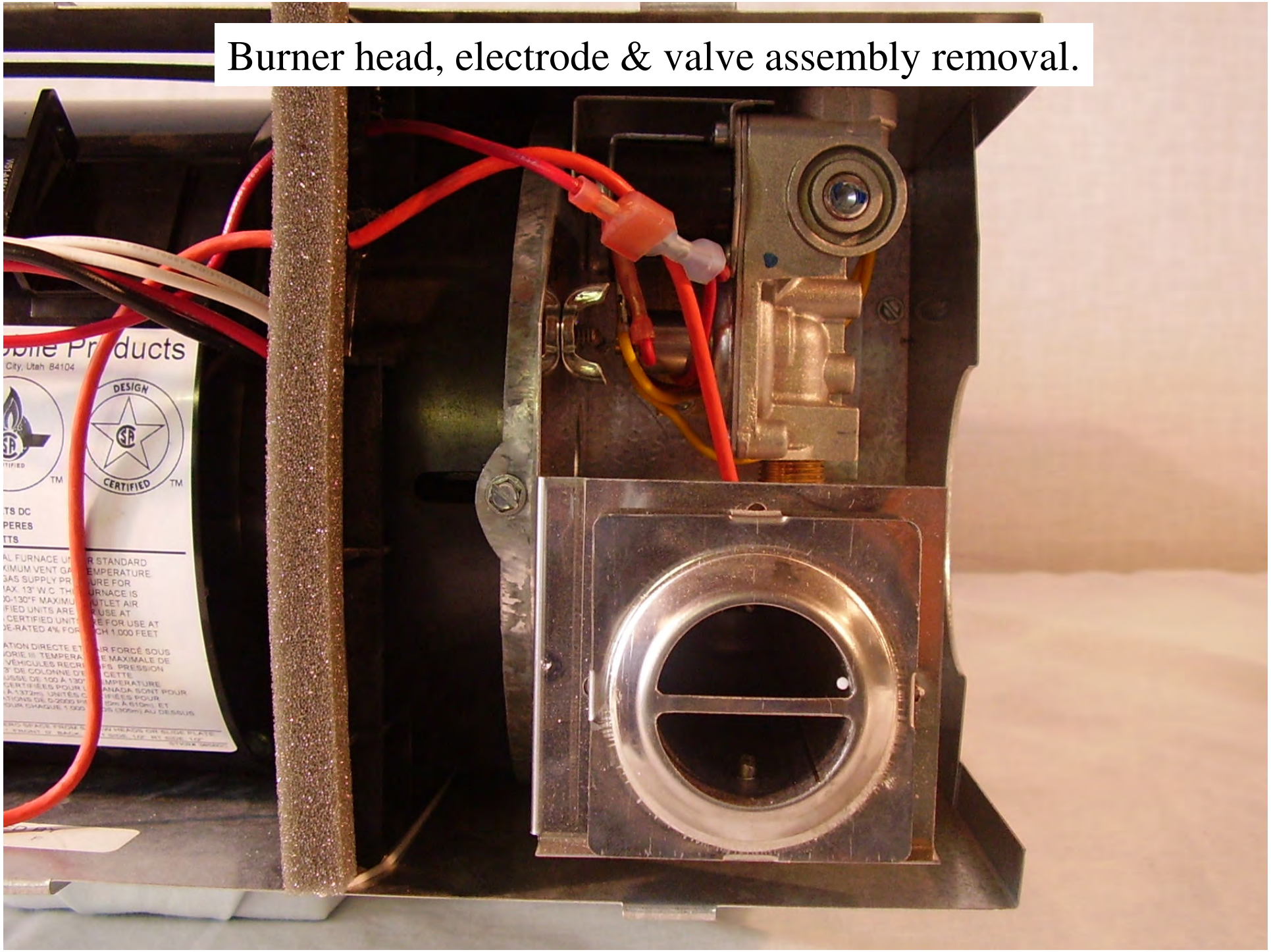


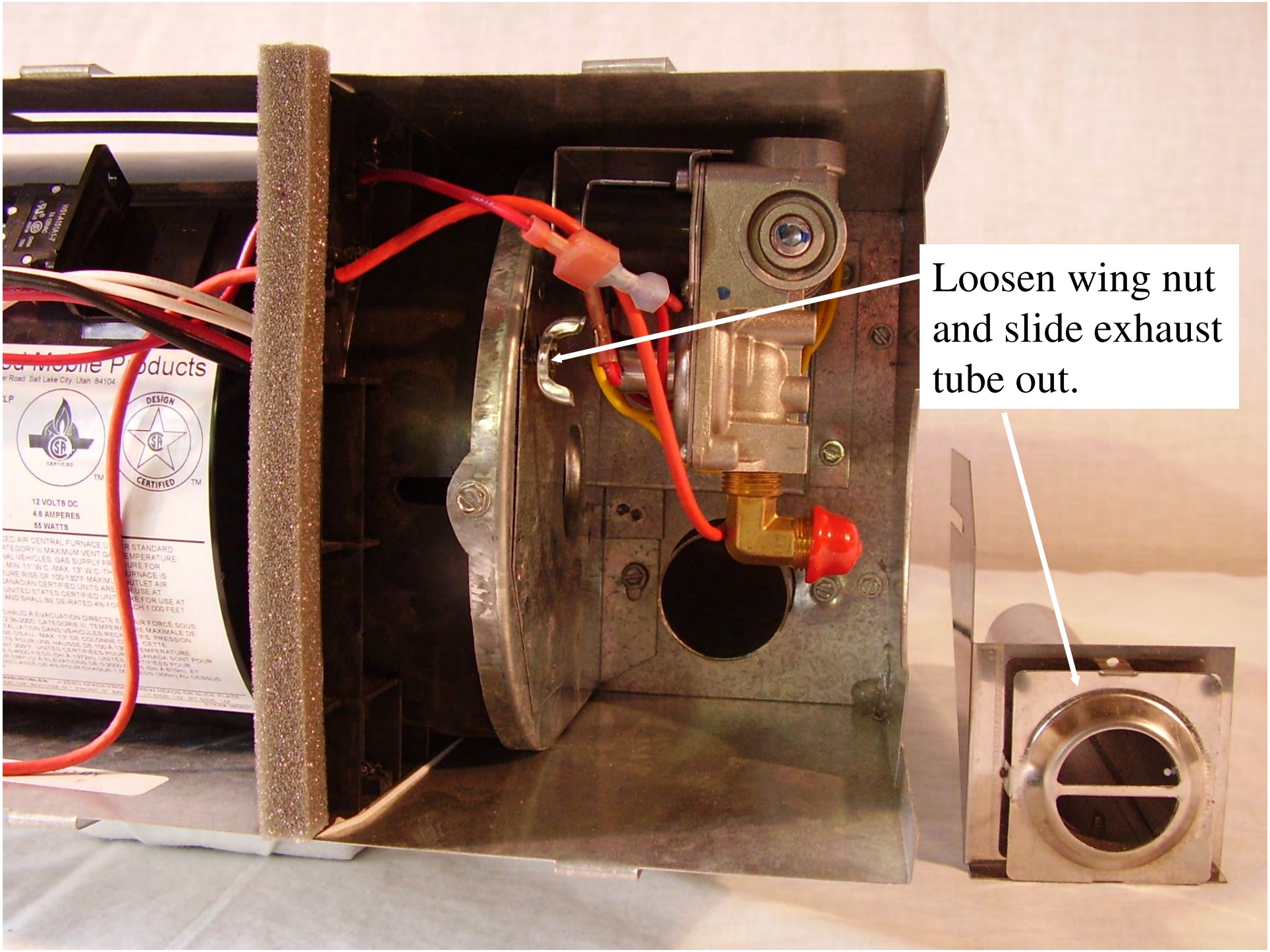

Checking to see if power is sent to the gas valve.
DIGITAL MULTIMETER
12.35 V
Auto Power Off
AC/DC
DATA HOLD
CRAFTSMAN
Clamp Adaptor
CAP 400nF 4nF
TEMP
°F
°C
AC/DC 4mA
40mA
400mA
20A
OHM
V AC/DC
AUTORANGING MULTIMETER 82175
20A
Clamp mA
V•TEMP Ω•CAP
COM
MODEL/ MODÈLE:
Number of Flashes
Diagnostic Information
1 w/ 3 sec. pause
Air Flow/ Limit Fault
2 w/ 3 sec. pause
Flame Sense Fault
3 w/ 3 sec. pause
Ignition Lockout Fault
Steady on, no flashing
Internal Control Failure
ATWOOD MOBILE PRODUCTS
S/N: 1869218

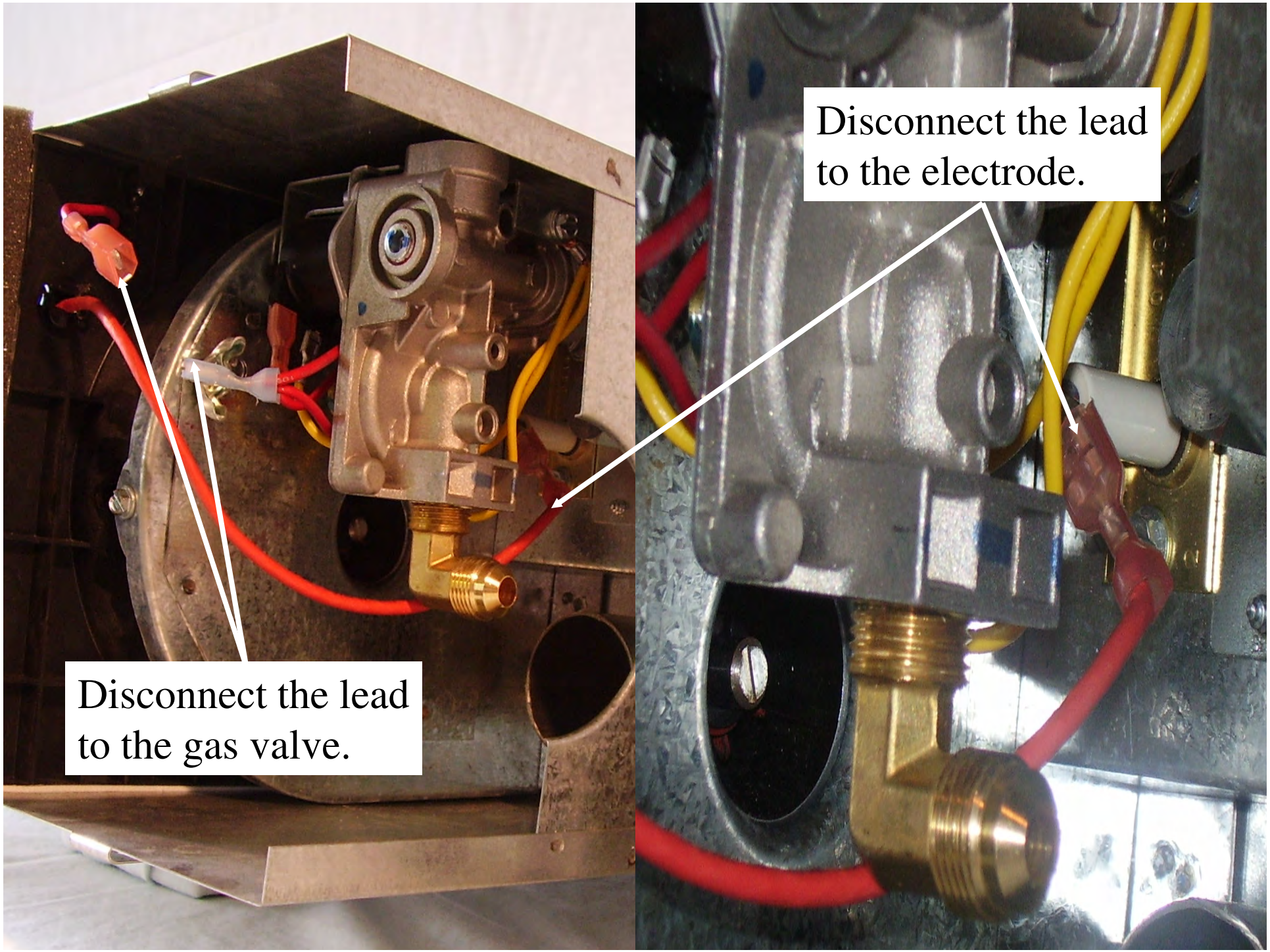

RADIX WIRE II SIL-A-BLEND STYLE 3573 200C 10 KVAC

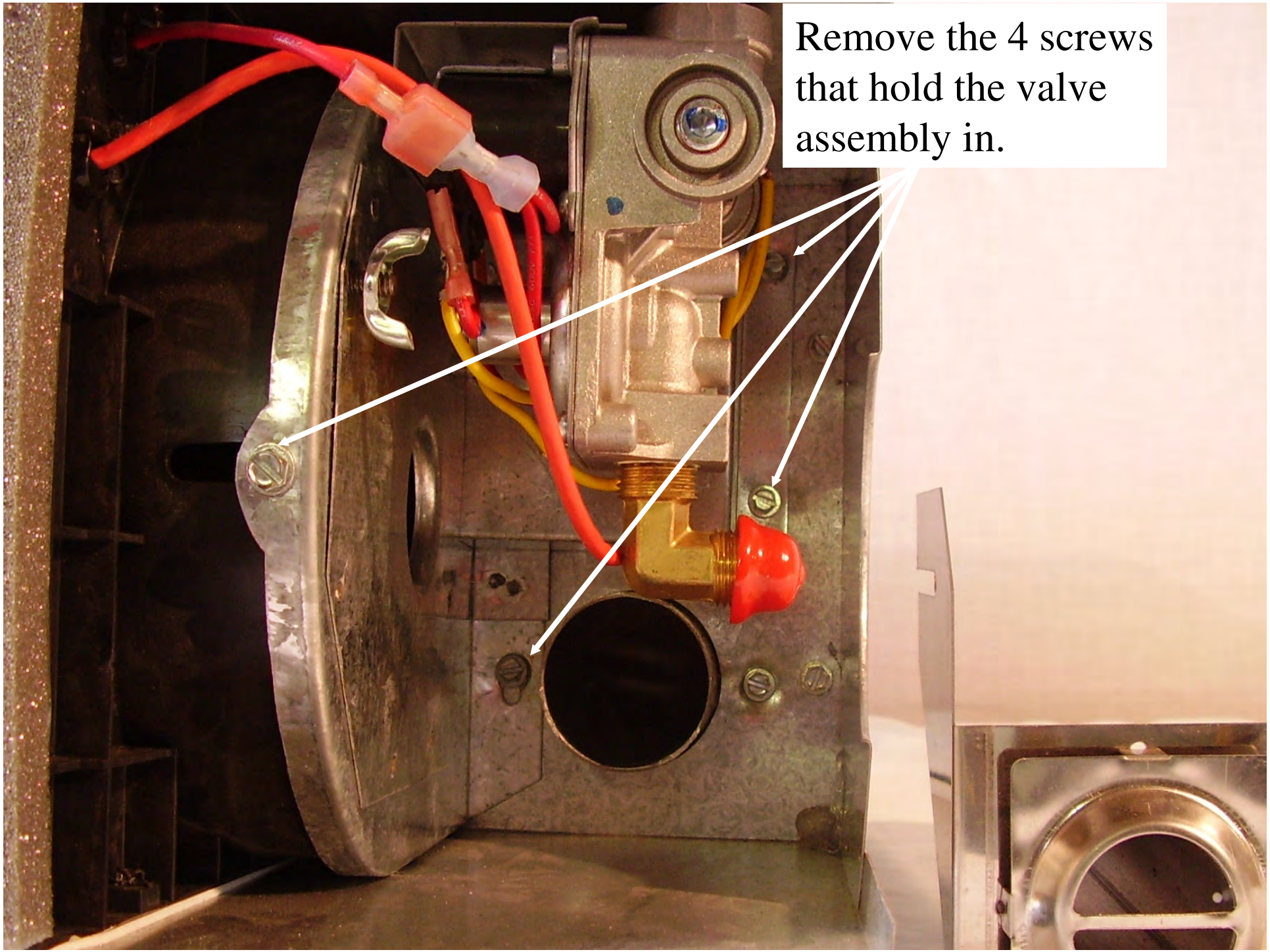
Checking resistance of a coil, each should be between 30 – 50 OHMs.

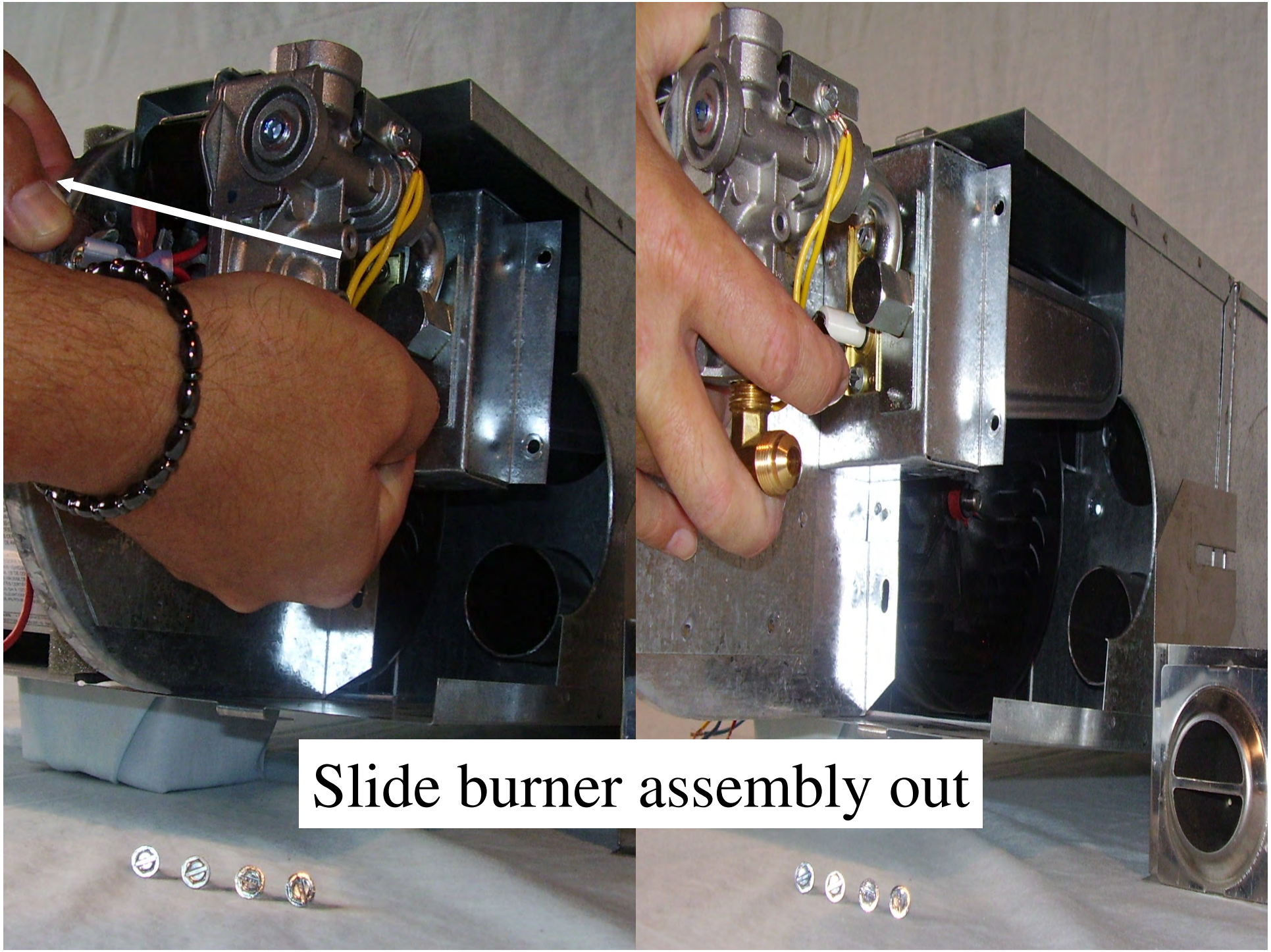


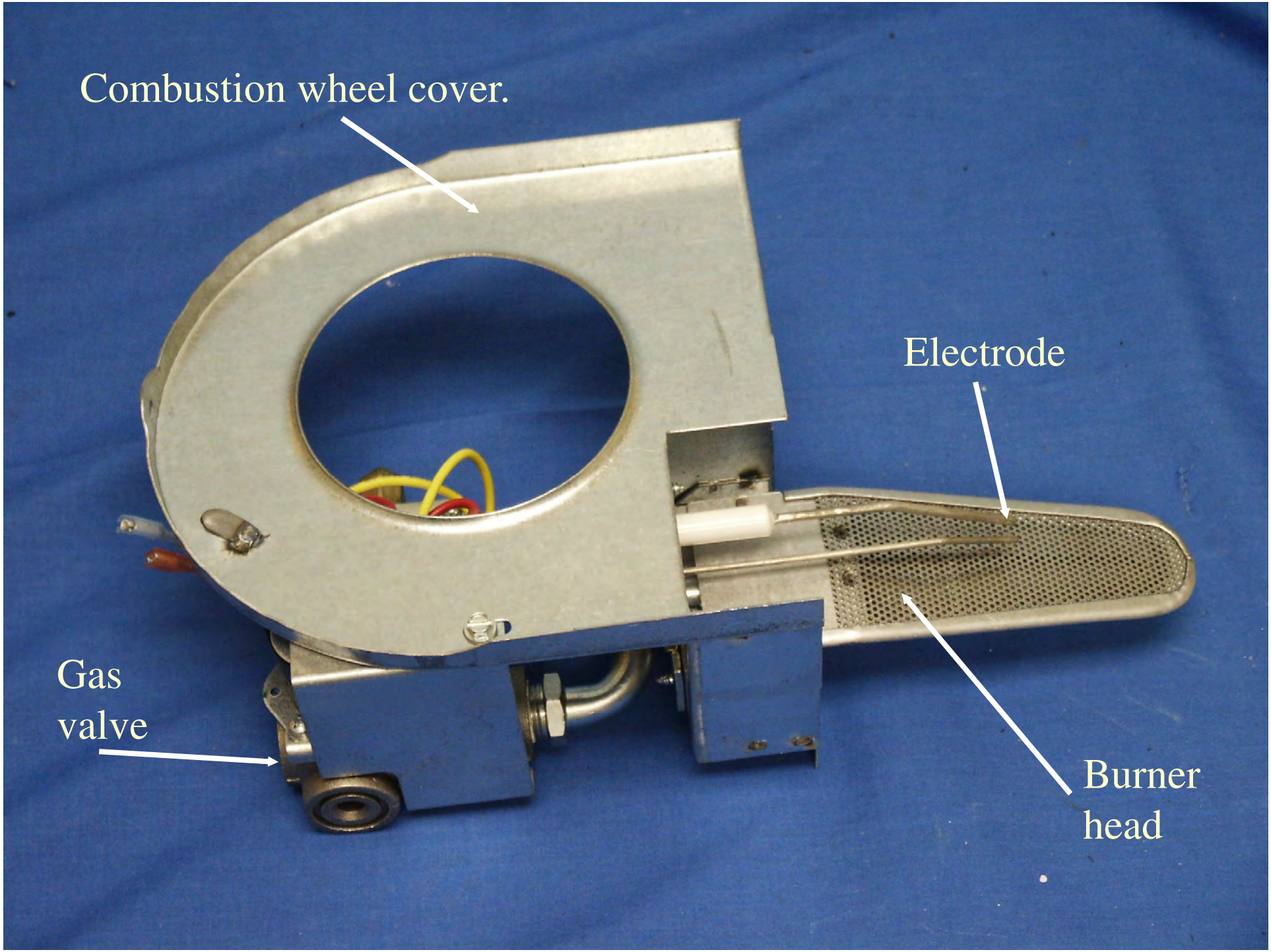

Burner head, electrode & valve assembly removal.

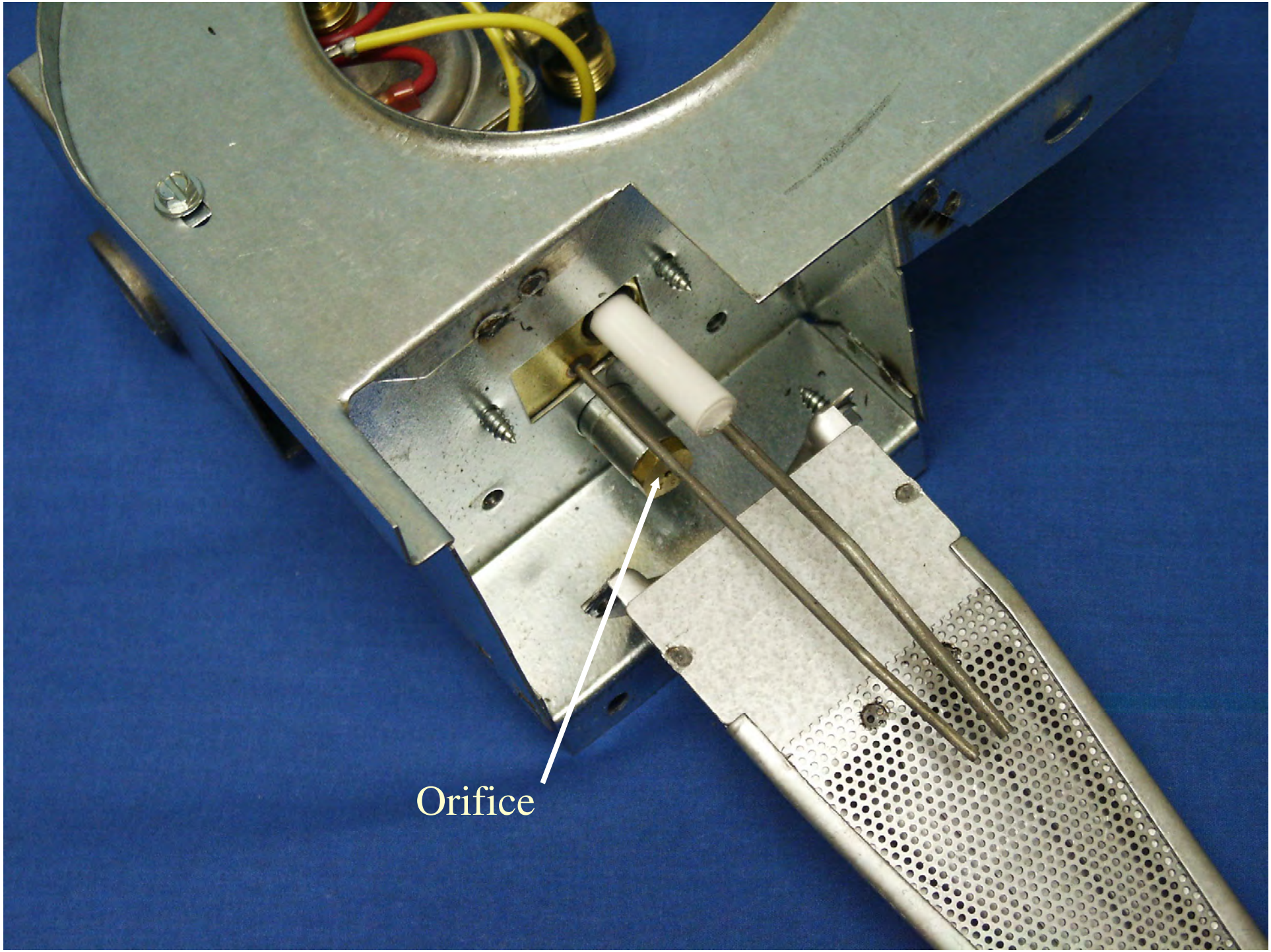

Loosen wing nut and slide exhaust tube out.
12 VOLTS DC
4.6 AMPERES
55 WATTS

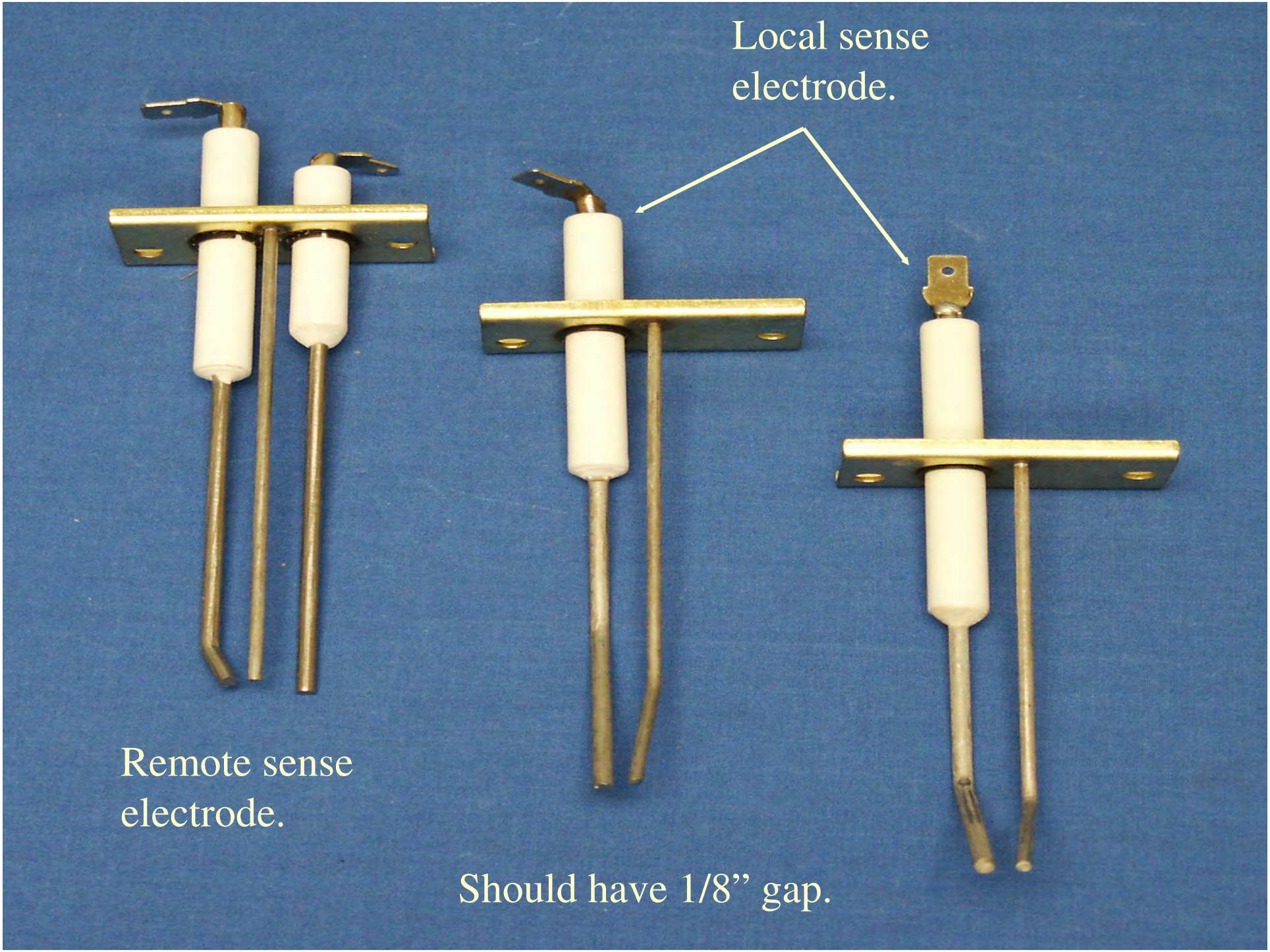

Disconnect the lead to the electrode.
Disconnect the lead to the gas valve.

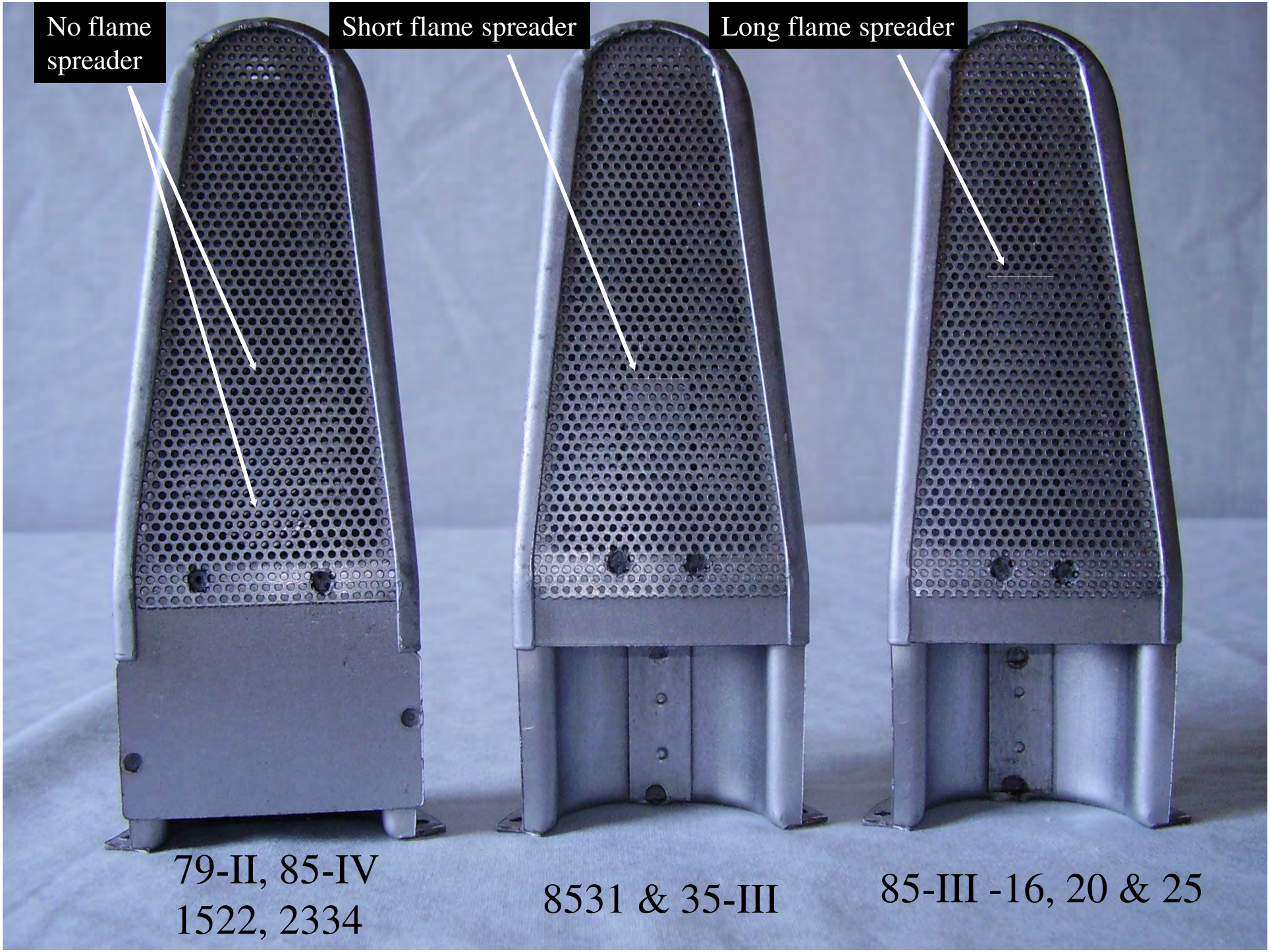

Remove the 4 screws
that hold the valve
assembly in.

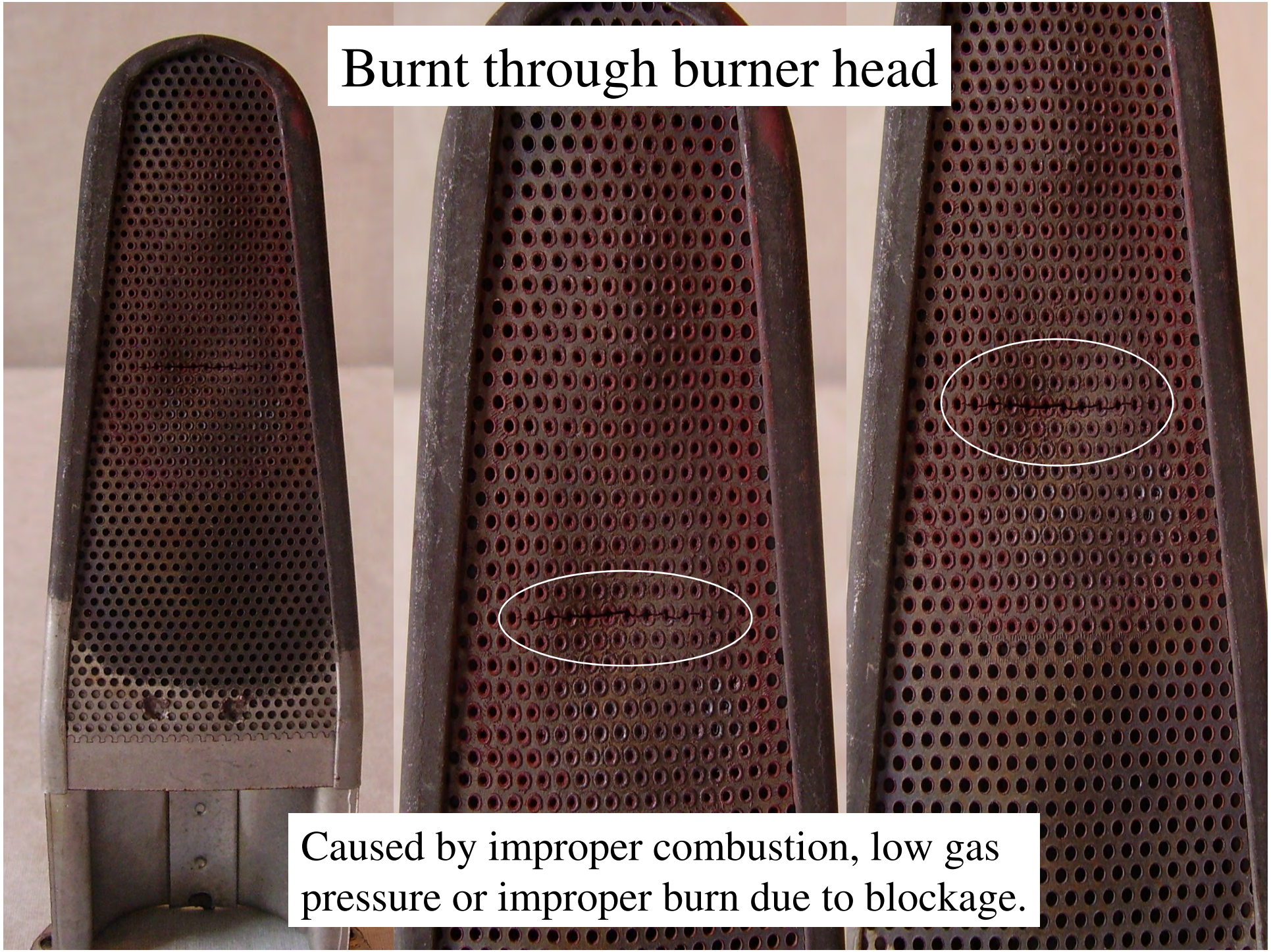

Slide burner assembly out

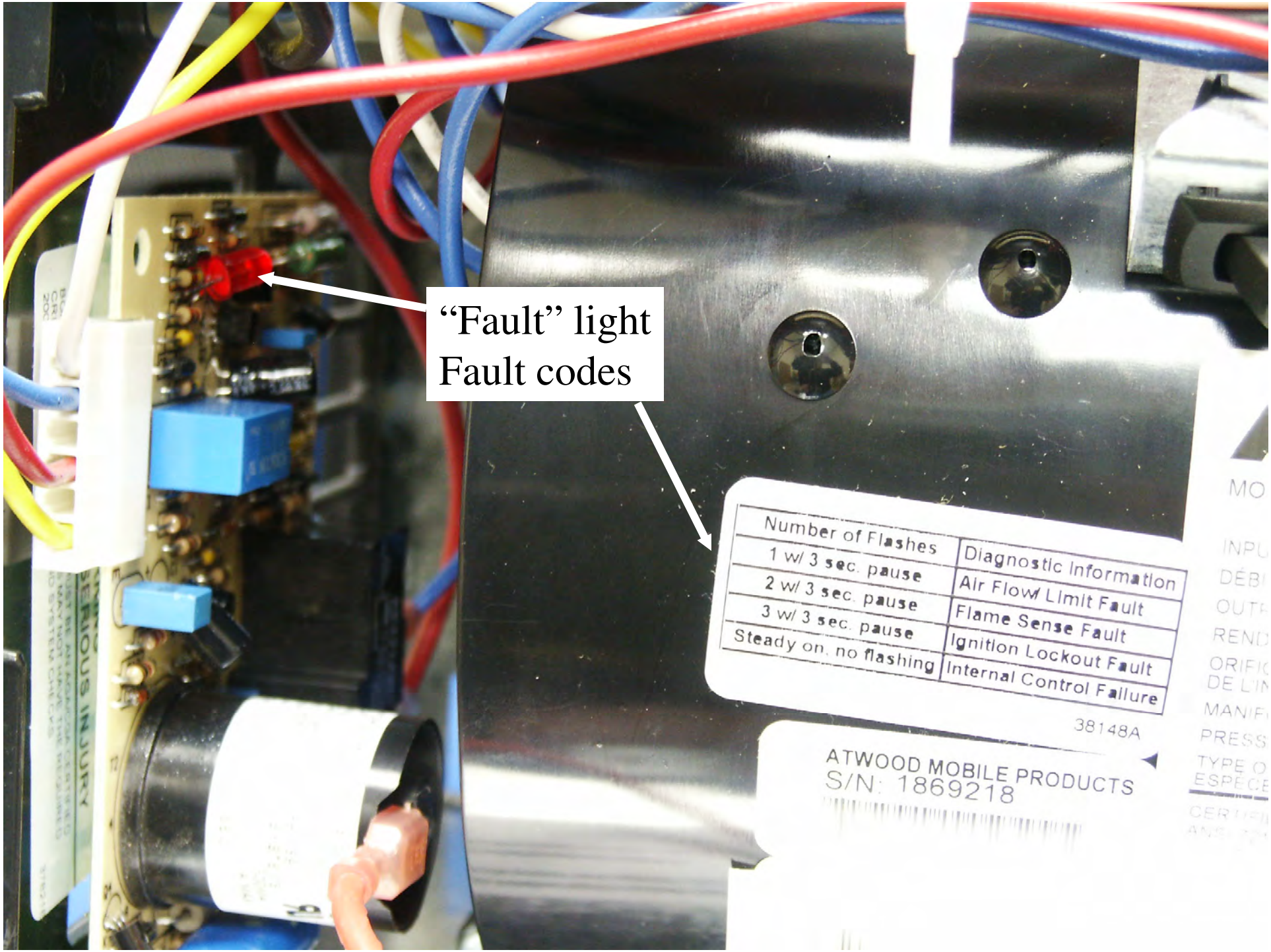

Combustion wheel cover.
Electrode
Gas valve
Burner head


Orifice

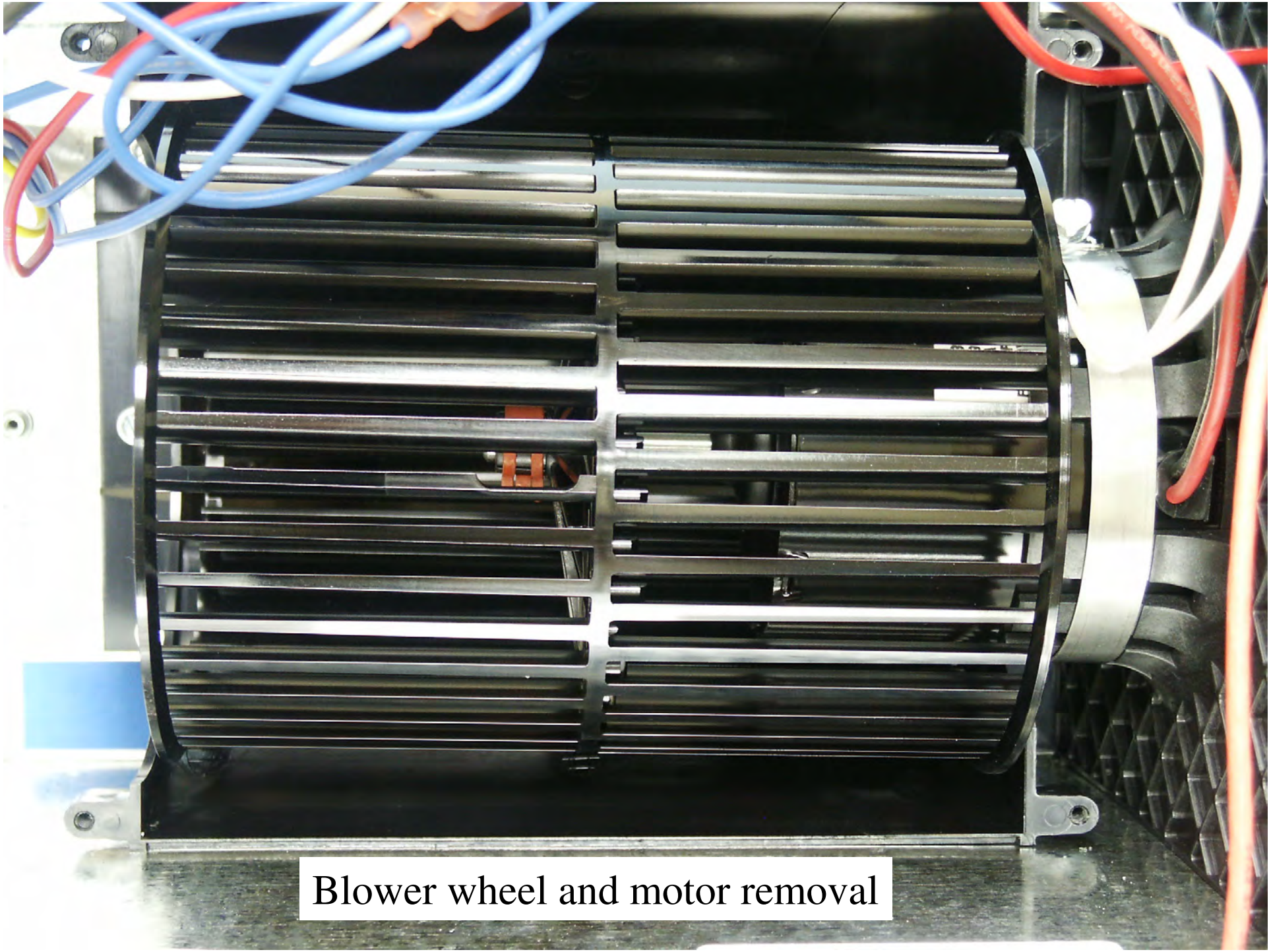

Local sense electrode.
Remote sense electrode.
Should have 1/8” gap.


No flame spreader
Short flame spreader
Long flame spreader
79-II, 85-IV
1522, 2334
8531 & 35-III
85-III -16, 20 & 25


Burnt through burner head
Caused by improper combustion, low gas pressure or improper burn due to blockage.


"Fault" light
Fault codes
Number of Flashes
Diagnostic Information
1 w/ 3 sec. pause
Air Flow/ Limit Fault
2 w/ 3 sec. pause
Flame Sense Fault
3 w/ 3 sec. pause
Ignition Lockout Fault
Steady on, no flashing
Internal Control Failure
38148A
ATWOOD MOBILE PRODUCTS
S/N: 1869218

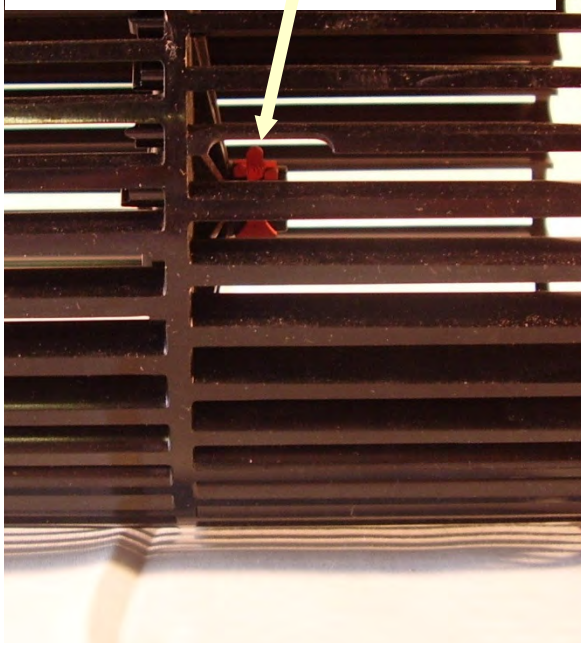

KIT, DC UNIVERSAL
C\N: 31501
ZETTLER
AZ2150-1A-90EF
40A 250VAC
1 HP 125VAC
China
06-115903-070
VI 06C1 DASH 2B-5
FENWAL ASHLAND, MA. 01721
PWR
BLO



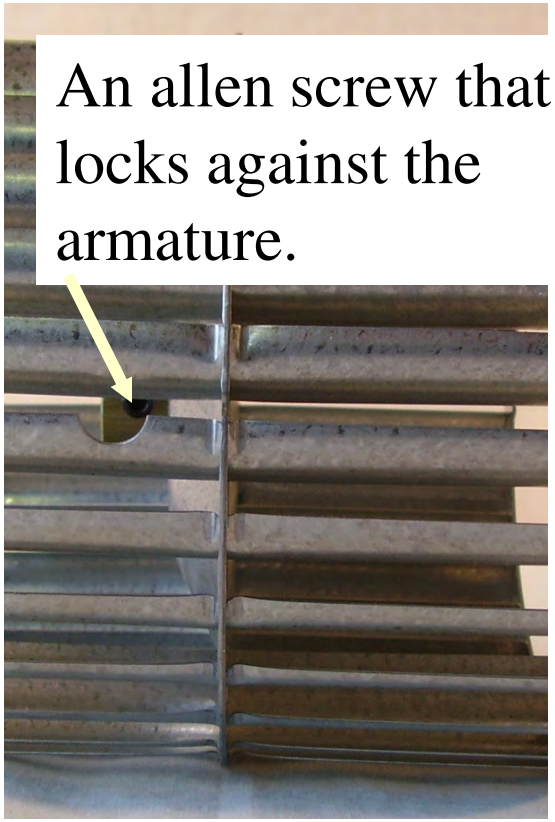
Blower wheel and motor removal

The blower and combustion wheels are held on several different ways.

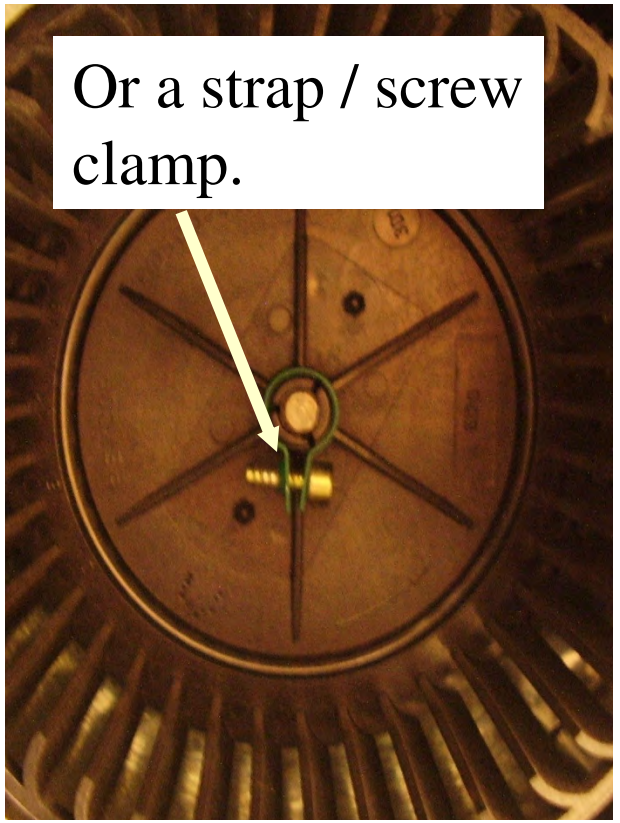
Spring type compression clamp.

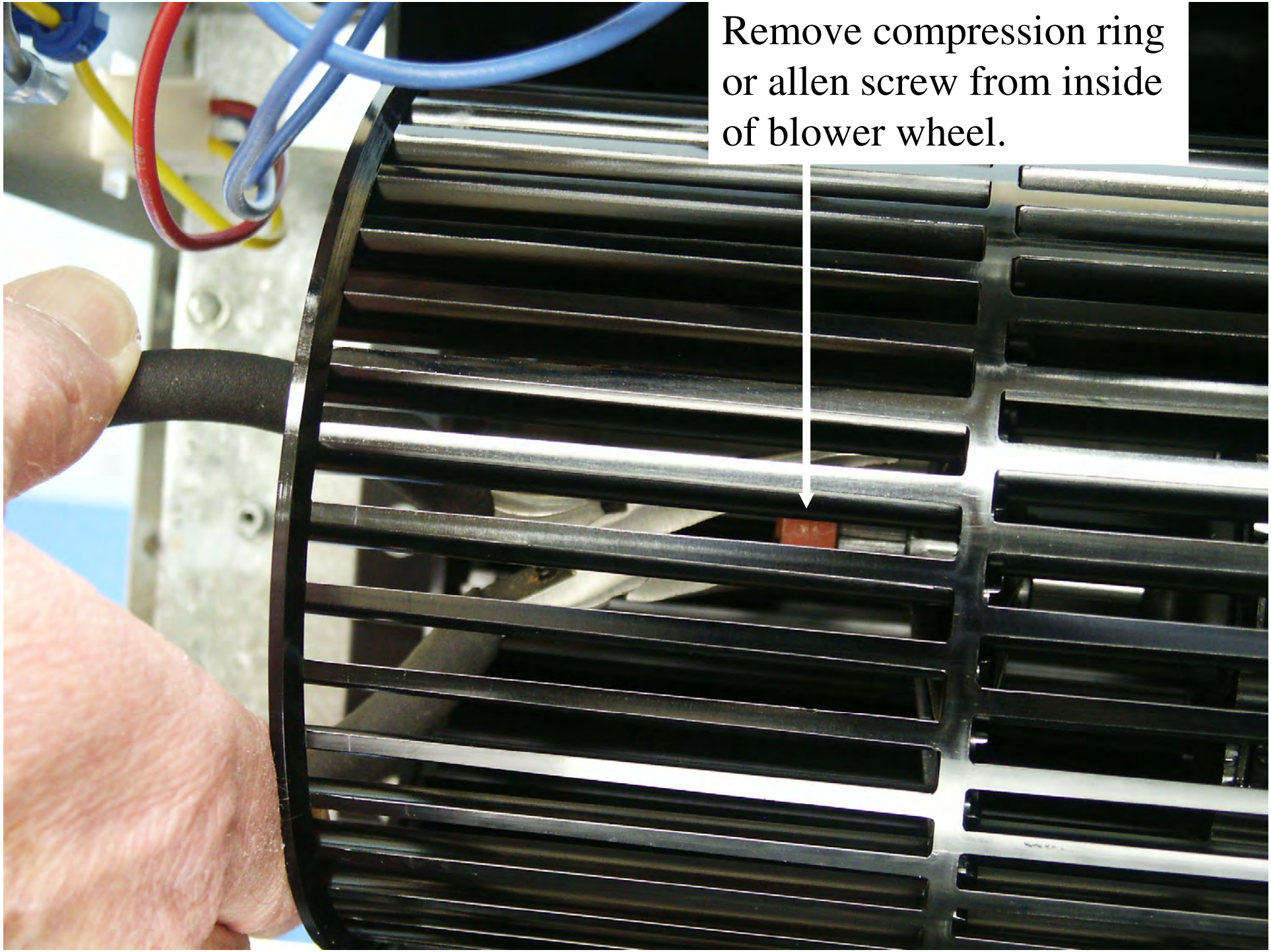


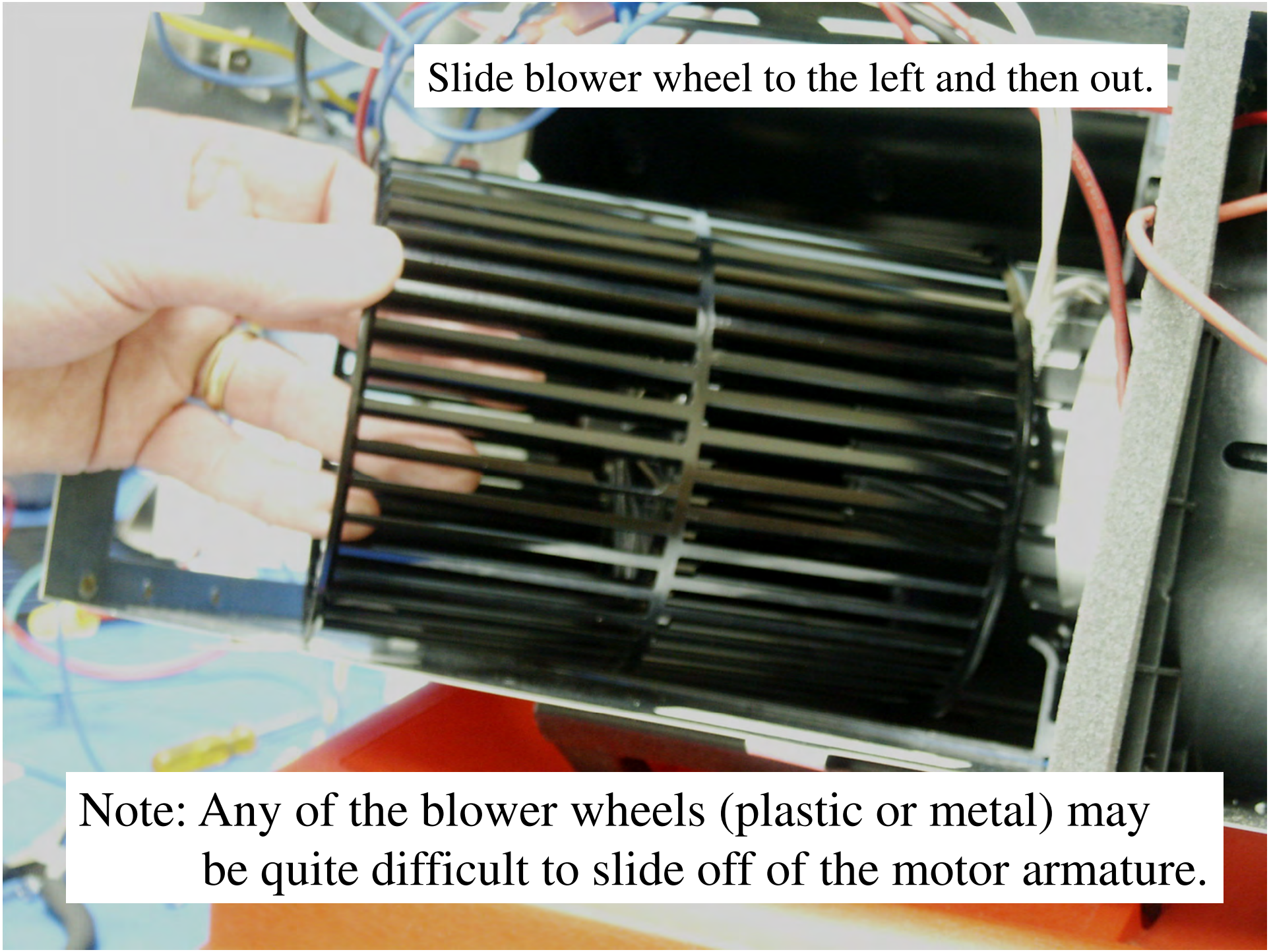
An allen screw that locks against the armature.

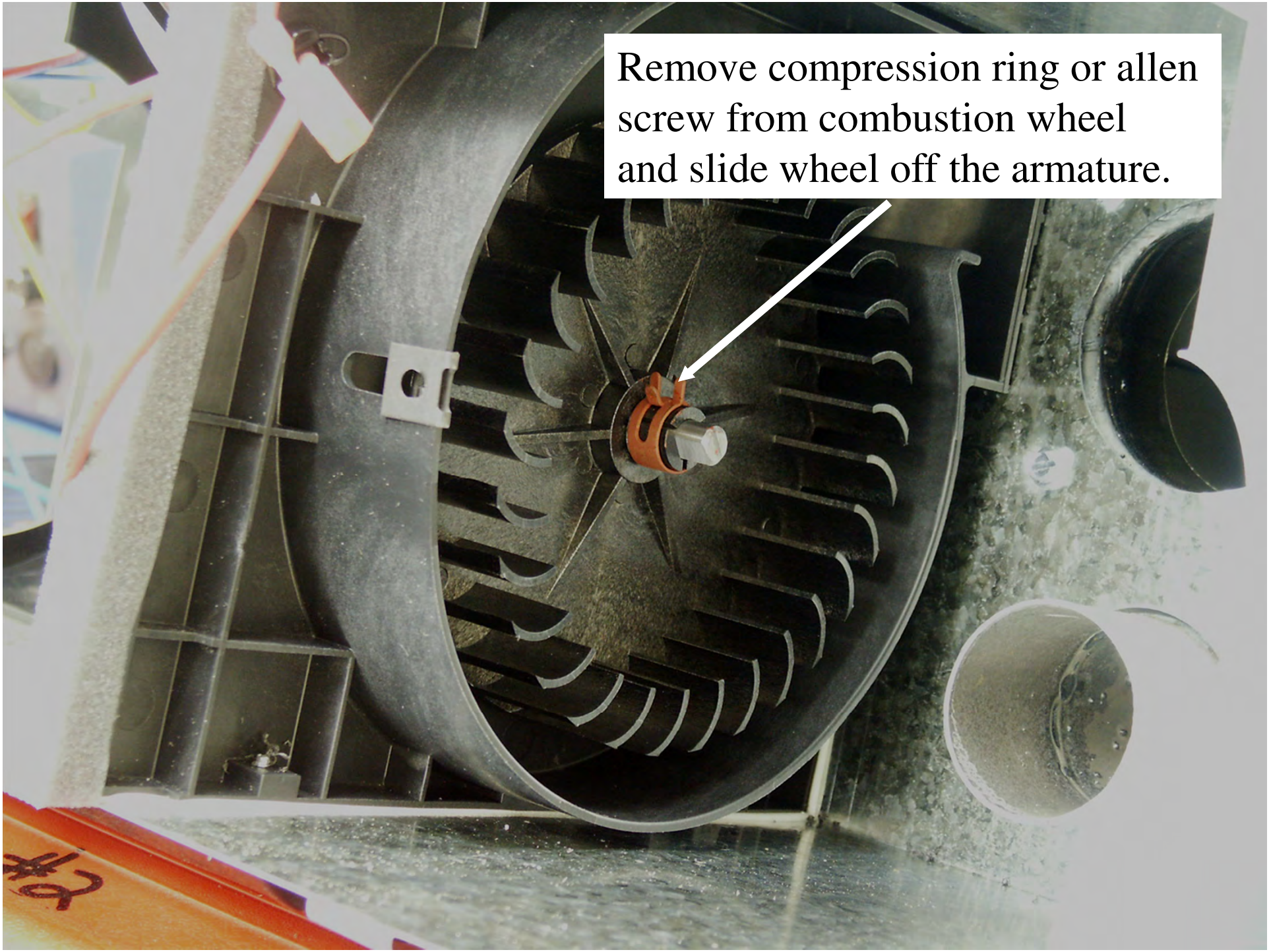


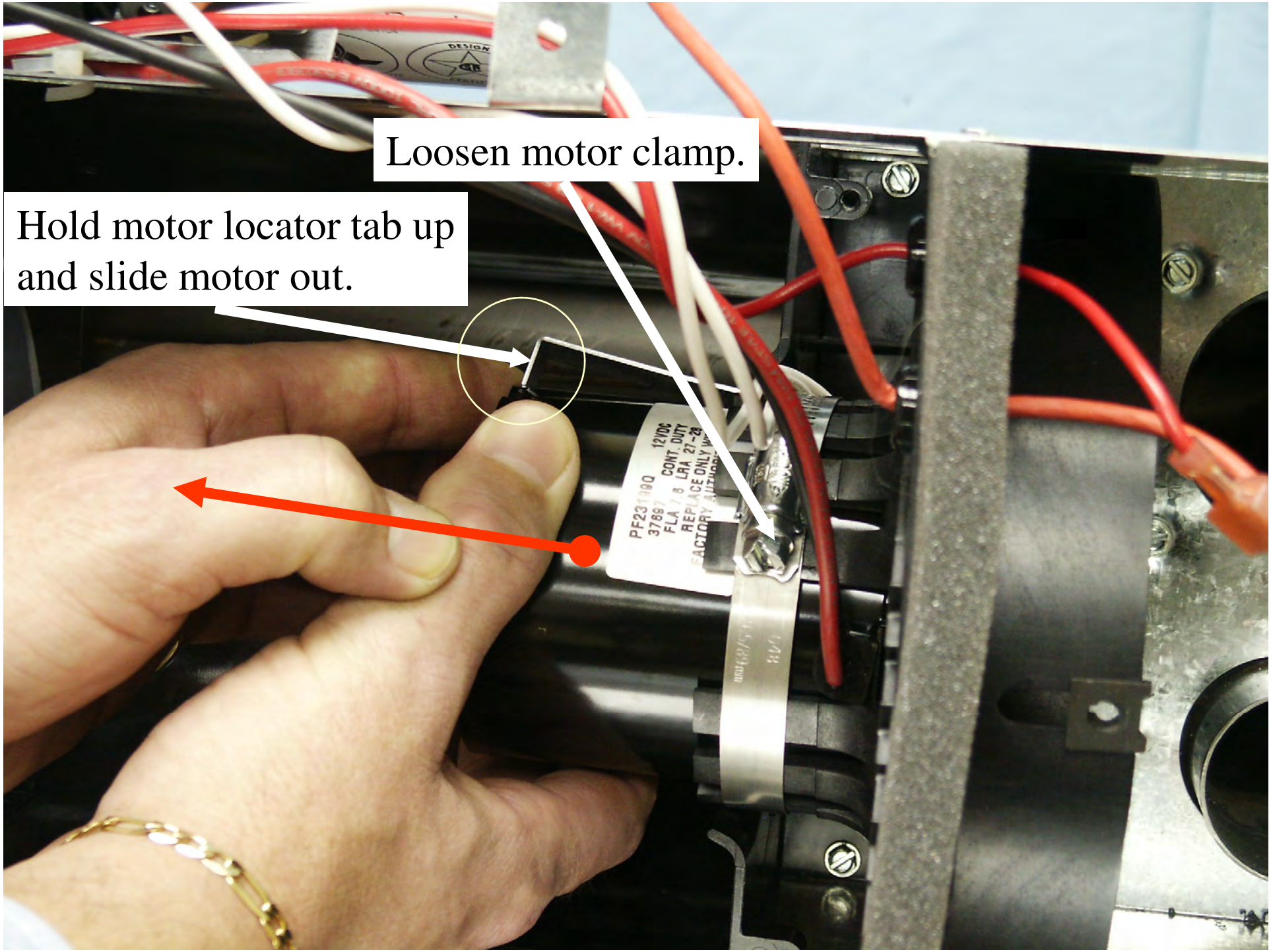
Or a strap / screw clamp.

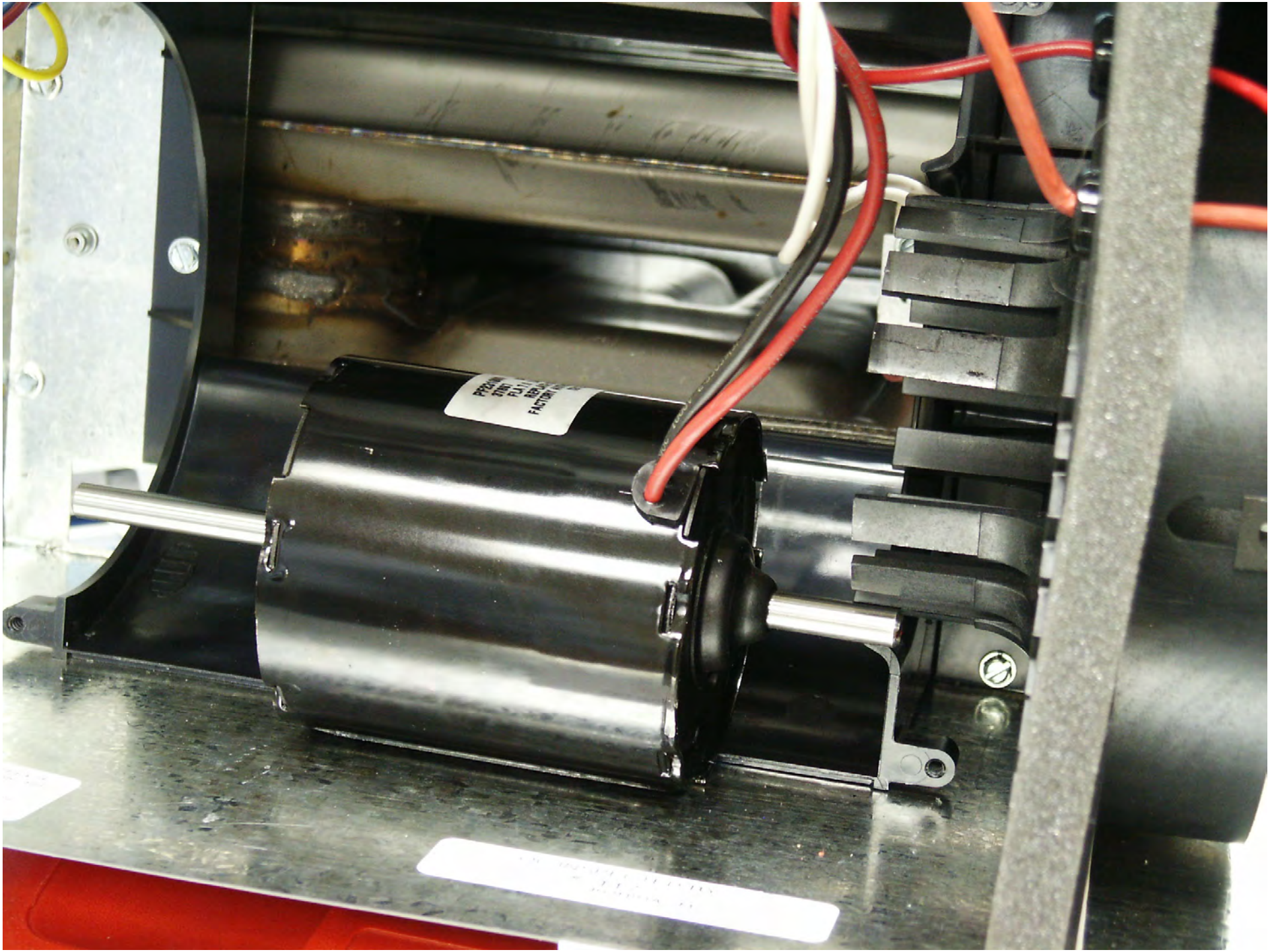



Remove compression ring
or allen screw from inside
of blower wheel.


Slide blower wheel to the left and then out.
Note: Any of the blower wheels (plastic or metal) may be quite difficult to slide off of the motor armature.


Remove compression ring or allen screw from combustion wheel and slide wheel off the armature.


Loosen motor clamp.
Hold motor locator tab up and slide motor out.



QUESTIONS ????

QUESTIONS ????

This manual has been provided courtesy of My RV Works, Inc.

www.myrvworks.com

You can find more RV service manuals here:

www.myrvworks.com/manuals

Over the years of running a mobile RV repair service, having a dedicated place to access service manuals for all the different appliances and components found on RVs was something that I always had a desire to create.

I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own RV.

If in doubt, please consult with a professional RV technician!

DARREN KOEPP - OWNER, MY RV WORKS, INC.