Do not disconnect under load

ENPHASE.

IQ8AC

Grid Support Utility Interactive Inverter
Multimode Inverter

Patent Information: https://enphase.com/patents

Off-grid Power Factor:	-1 to 0 to +1
Grid-tied Power Factor:	+/- 0.85
DC input range:	18-58 V⎓
Max. input short-circuit current:	25 A
Max. input continuous current:	14 A
AC output voltages:	240 V~ / 208 V~
AC output currents:	1.45 A / 1.66 A
AC output frequency:	60 Hz
AC output power (max. continuous):	349 VA / 345 VA
Operating temperature:	-40 °C to +65 °C
Ingress protection:	NEMA Type 6

NOM

PV Rapid Shutdown System Equipment
NEC 690.12 and C22.1-2015 Rule 64-218
UL 1741 3rd Ed., incl. SB Compliant

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

UL CERTIFIED
SAFETY US-CA
E341165

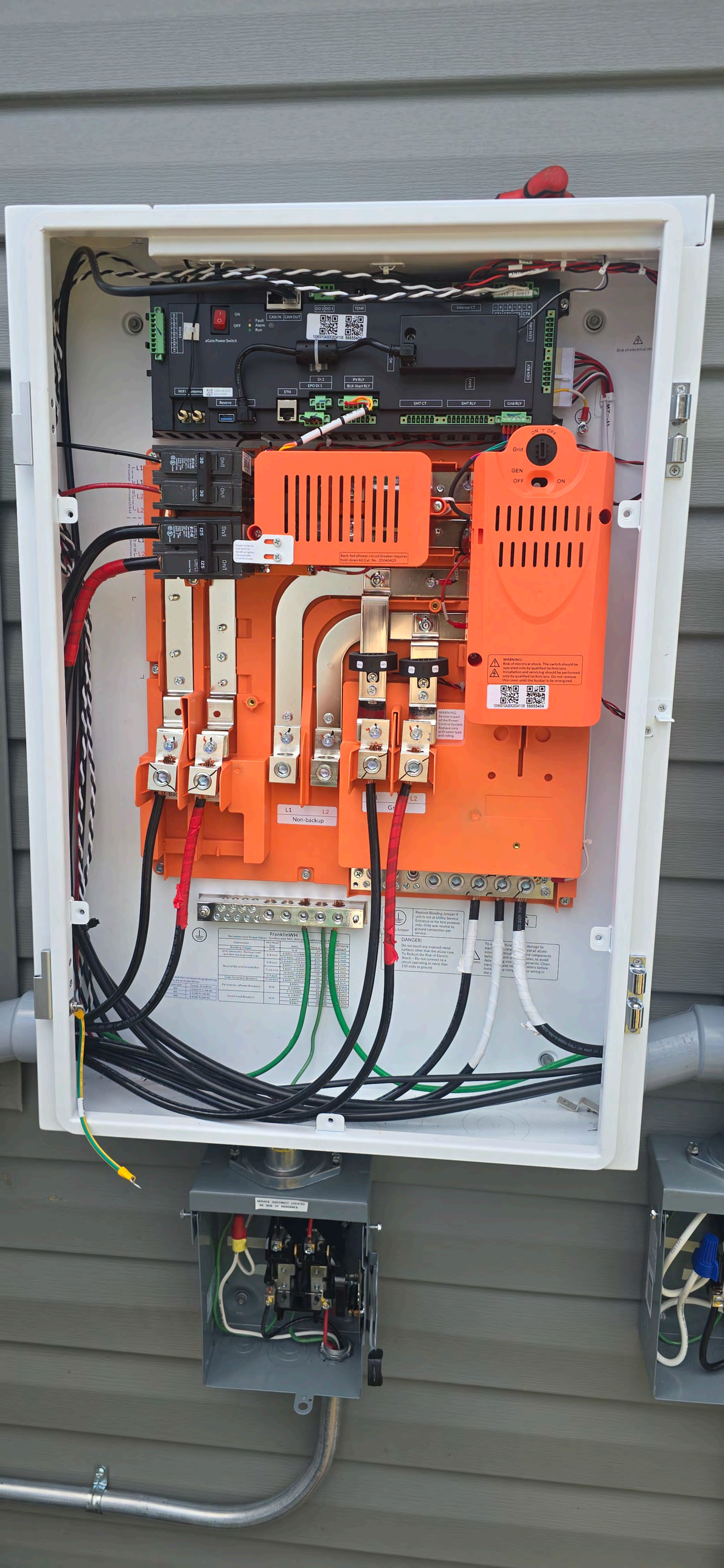
CAUTION: RISK OF SHOCK. WARRANTY VOID IF COVER REMOVED. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

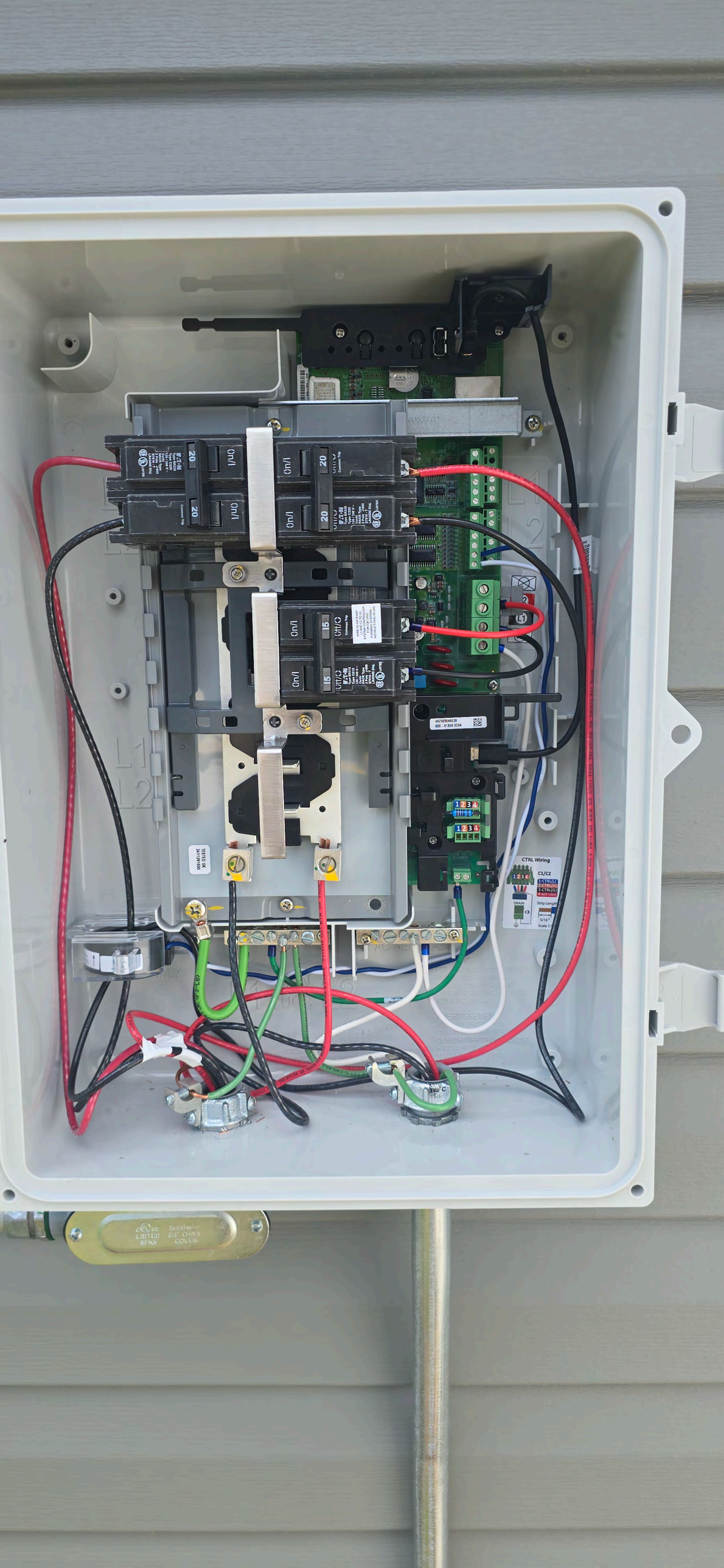
WARNING: ELECTRIC SHOCK HAZARD. DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED. AC AND DC VOLTAGE SOURCES TERMINATE INSIDE THIS EQUIPMENT. DISCONNECT BOTH BEFORE SERVICING. PHOTOVOLTAIC ARRAY SUPPLIES A DC VOLTAGE TO THIS EQUIPMENT WHEN EXPOSED TO LIGHT. HOT SURFACES: TO REDUCE THE RISK OF BURNS - DO NOT TOUCH.

ATTENTION: RISQUE D'ELECTROCUTION. LES CONDUCTEURS CC DE CE SYSTEME PHOTOVOLTAIQUE NE SONT PAS RELIES A LA TERRE ET PEUVENT ETRE SOUS TENSION[illegible] SOURCES DE TENSION CA ET CC SONT CONNECTEES A CET APPAREIL. ISOLER LES DEUX SOURCES AVANT TOUTE INTERVENTION. LES CÂBLES COURANT CONTINU SONT SOUS TENSION LORSQUE LE CHAMP PHOTOVOLTAÏQUE EST EXPOSÉ À LA LUMIÈRE. RISQUE DE BRÛLURE, NE PAS TOUCHER.

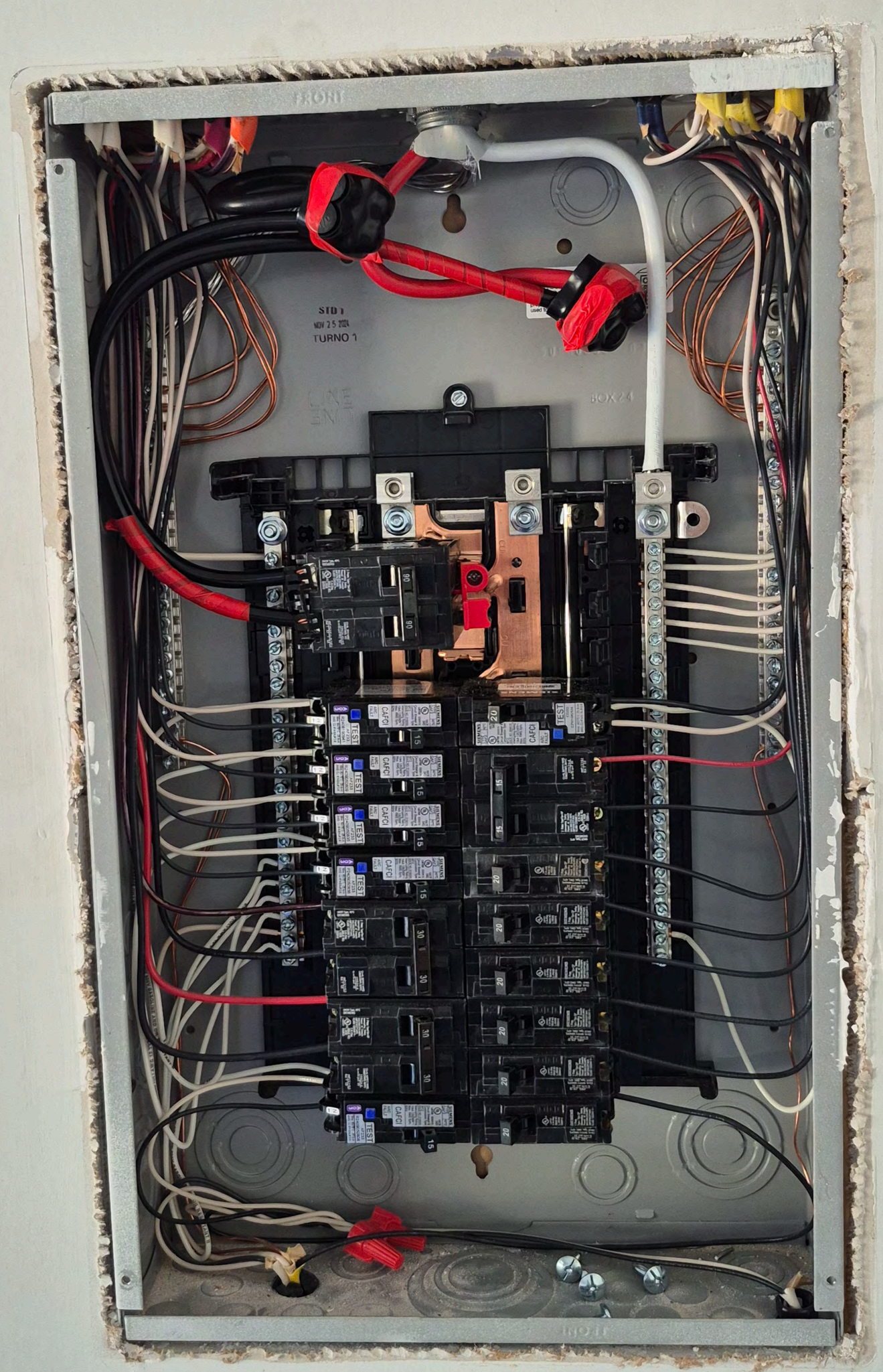
Made in the USA
from imported parts

5325190044 69
SN:532519004469
TAN:882-01393
IQ8AC-72-M-US
882-01393 13 1924
TOP ↑


aGate Power Switch
Fault
Alarm
Run
CAN IN
CAN OUT
DO 2/DO 1
TEMP
Internal CT
DI 2
EPO DI 1
PV RLY
BLK-Start RLY
ETH
SMT CT
SMT RLY
Grid RLY
Grid
GEN
OFF
ON
Back-fed aPower circuit breaker requires hold-down kit Cat. No. 250404125
WARNING: Risk of electrical shock. The switch should be operated only by qualified technicians. Installation and servicing should be performed only by qualified technicians. Do not remove this cover until the busbar is de-energized.
L1
L2
Non-backup
FranklinWH
DANGER!
Do not touch any exposed metal surfaces other than the aGate case. To Reduce the Risk of Electric Shock, do not connect to a circuit operating at more than 150 volts to ground
SERVICE DISCONNECT LOCATED WITHIN 10M OF HEADENCE


CTRL Wiring
C1/C2
1:CTRL(1)
2:CTRL(2)
3:CTRL(G)
4:Not Used
DRAIN
C3
Strip Length
5/16"
Scale 1:1
Southwire
2-4" CUNA
COVER
LISTED
EFKB

Matching Terminal
CAN OUT
CAN IN
L1 N L2
0.71-0.74inch
Insulation
Conductor
M4-L2
M4-N
M4-L1


FRONT
STD 1
TURNO 1
BOX 24
TEST
CAFCI
15
20
30

GENERAL DUTY
SAFETY SWITCH
INTERRUPTOR DE
SEGURIDAD DE
SERVICIO GENERAL
60 A
240 Vac / V~

DANGER / PELIGRO

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH
PELIGRO DE DESCARGA ELÉCTRICA, EXPLOSIÓN O
DESTELLO POR ARQUEO

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Never operate energized switch with door open. Keep door fastened.
- Turn off switch before removing or installing fuses or making load side connections.
- Always use a properly rated voltage sensing device at all line and load fuse clips to confirm switch is off.
- Turn off power supplying switch before doing any other work on or inside switch.
- Do not use renewable link fuses in fused switches.

Failure to follow these instructions will result in death or serious injury.

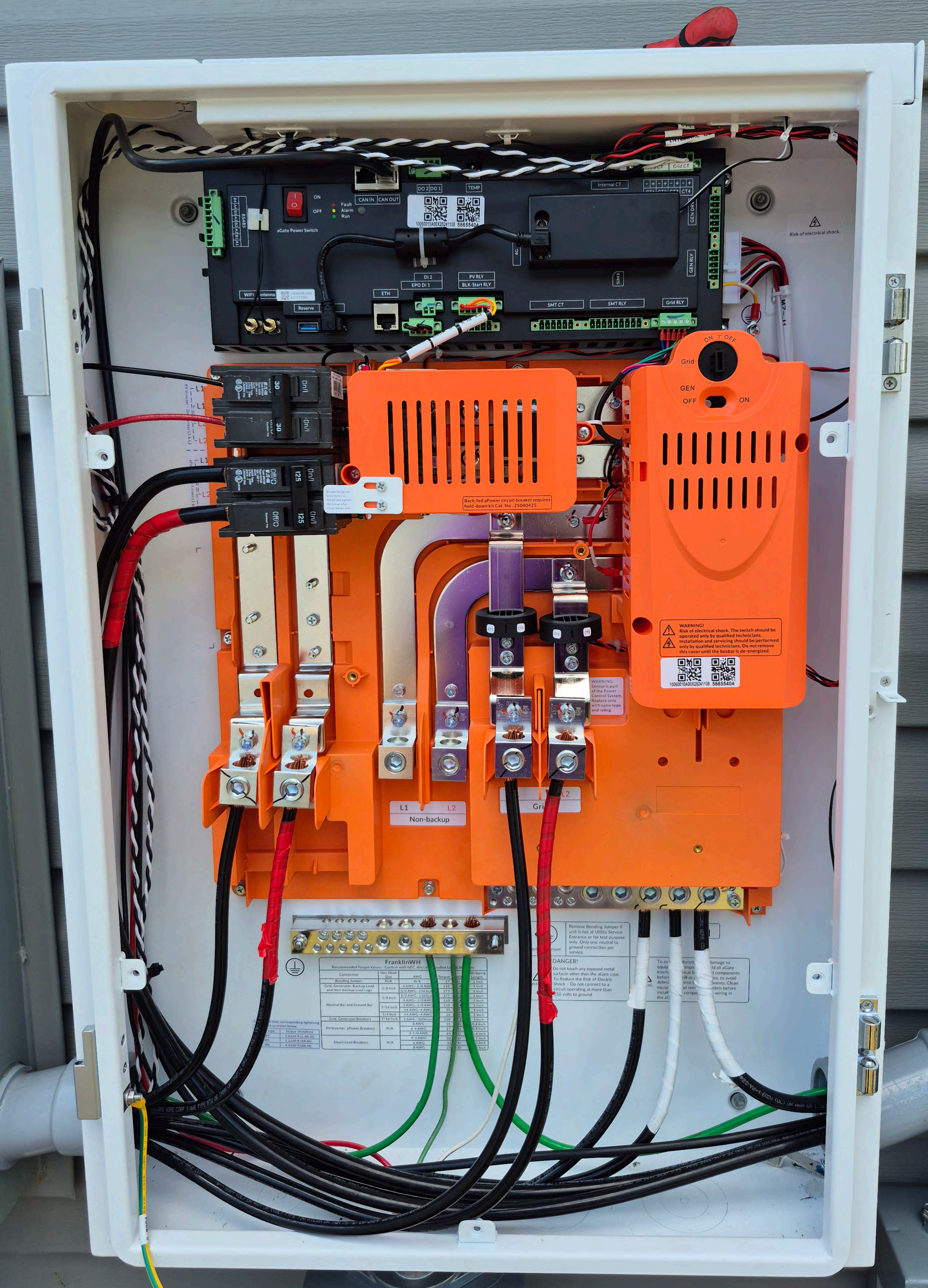
- Utilice equipo de protección personal (EPP) apropiado y siga las prácticas de seguridad eléctrica establecidas por su Compañía (consulte la norma NFPA 70E).
- Solamente el personal eléctrico especializado deberá instalar y prestar servicio de mantenimiento a este equipo.
- Nunca haga funcionar el interruptor con la puerta abierta cuando está energizado. Mantenga la puerta asegurada.
- Desenergice el interruptor antes de extraer o instalar fusibles o de hacer conexiones en el lado de carga.
- Siempre utilice un dispositivo de tensión nominal adecuado en los clips para fusibles de los lados de carga y línea para confirmar la desenergización del interruptor.
- Desenergice el interruptor antes de realizar cualquier otro trabajo en el interruptor.
- No utilice fusibles de cinta renovables en los interruptores de fusible.

El incumplimiento de estas precauciones podrá causar la muerte o lesiones serias.

To lock out switch, place padlock hasp through hole in lockplate and hole in handle.
Para bloquear el interruptor, pase la aldaba del candado por el agujero en la placa de inmovilización y el agujero en la palanca.

40274-383-03

ON
I


CAN IN
CAN OUT
DO 2
DO 1
TEMP
ON
OFF
Fault
Alarm
Run
aGate Power Switch
RS485
Internal CT
Grid CT
GEN DRV
GEN RLY
4G
SIM
DI 2
EPO DI 1
PV RLY
BLK-Start RLY
ETH
WIFI Antenna
Reserve
SMT CT
SMT RLY
Grid RLY
Risk of electrical shock.
Grid
GEN
OFF
ON
Back-fed aPower circuit breaker requires hold-down kit Cat. No . 25040425
WARNING!
Risk of electrical shock. The switch should be operated only by qualified technicians.
Installation and servicing should be performed only by qualified technicians. Do not remove this cover until the busbar is de-energized.
WARNING:
Sensor is part of the Power Control System. Replace only with same type and rating.
L1
L2
Non-backup
Remove Bonding Jumper if unit is not at Utility Service Entrance or for test purpose only. Only one neutral to ground connection per service.
DANGER!
Do not touch any exposed metal surfaces other than the aGate case.
To Reduce the Risk of Electric Shock – Do not connect to a circuit operating at more than 150 volts to ground
FranklinWH
Recommended Torque Values - Confirm with NEC, AHJ and Installed Lugs & Busbars
Connection
Hex Head Size
AWG
Torque
Stripping Length
Bonding Jumper
N/A
N/A
27
1 Inch
Grid, Generator, Backup Load and Non-backup Load Lugs
5/8 Inch
4 AWG~2/0 AWG
110
1 Inch
3/0 AWG~250 kcmil
275
1 Inch
Neutral Bar and Ground Bar
5/8 Inch
3/0 AWG~250 kcmil
275
1 Inch
4 AWG~2/0 AWG
110
1 Inch
7/16 Inch
3 AWG~2/0 AWG
110
1 Inch
14 AWG~4 AWG
35
1 Inch
1/4 Inch
14 AWG~4 AWG
26
1 Inch
Grid, Generator Breakers
7/16 Inch
2 AWG~300kcmil
250
1 Inch
PV Inverter, aPower Breakers
N/A
8 AWG
25
0.4 Inch
6-4 AWG
27
0.4 Inch
3-1/0 AWG
45
0.4 Inch
Smart Load Breakers
N/A
4-2 AWG
50
5 Inch
6 AWG
35
5 Inch
8 AWG
25
5 Inch
Remove Bonding Jumper if unit is not at Utility Service Entrance or for test purpose only. Only one neutral to ground connection per service.
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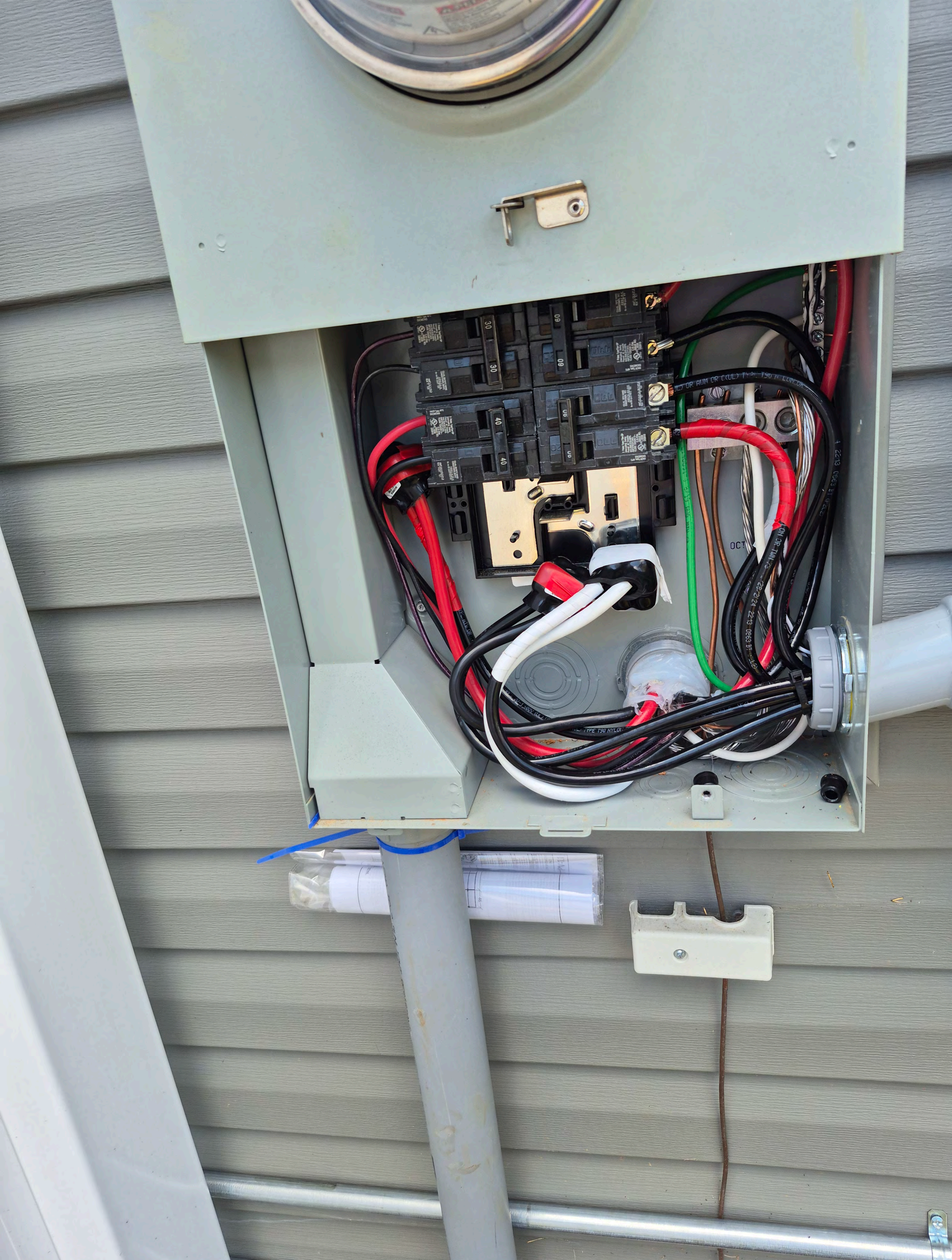


SOLADECK

CanadianSolar

124 N Bathwood Dr
Fuquay NC 2752

10

124 Northwood D

Fuquay NC 2752

CanadianSolar

2

124 NORTHWOOD DR
FUQUAY VARINA, NC 27526

CanadianSolar
CS6.3-675TM-HD96W
Serial Number: 12304858025175
Made in Vietnam
Fabriqué au Vietnam
Hergestellt in Vietnam
Fabricado en Vietnam
Prodotto in Vietnam
Vyrobeno ve Vietnamu
Wyprodukowano w Wietnamie
Vyrobené vo Vietnamu
Gyártva Vietnamban
Vyrobeno ve Vietnamu
Tillverkad i Vietnam
Vyrobené vo Vietnamu

124 NORTHWOOD - DR
FOUNT, VARINA . NC 27526

STOP
PV WIRE 12AWG 90°C WET OR DRY 1000V OR 2000V SUN RES -40°C (UL)
CanadianSolar
CS6.1-54TM-460H
SN 12043490928340

124 Northwood Dr
Fuquay -NC 27526

Replacement

CanadianSolar

CS6.1-54TM-460H

SN: 12504560026407

Assembled in the USA. Cell origin: Thailand

INSTALLATION MANUAL

Nominal Maximum Power	(Pmax):	460 W
Optimum Operating Voltage	(Vmp):	33.4 V
Optimum Operating Current	(Imp):	13.78 A
Open Circuit Voltage	(Voc):	39.3 V
Short Circuit Current	(Isc):	14.69 A
Maximum System Voltage	:	1000 V
Maximum Series Fuse Rating	:	25 A

All electrical data at Standard Test Conditions (STC), Irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25°C. Production tolerance: ±3%(Pmax),±5%(Voc,Isc). For field connection, use 4mm² & 12 AWG copper wire insulated for a minimum of 90°C.

Maximum Temperature: 85 °C
Module Fire Performance: TYPE 2 (UL61730)
Protection Class(IEC61140): CLASS II

System Fire Class Rating. See installation instructions for installation Requirements to Achieve a Specified System Fire Class Rating with this Product.
Please read the installation manual for more information prior to installation. The installation manual can be downloaded on Canadian Solar website:
https://www.csisolar.com/downloads

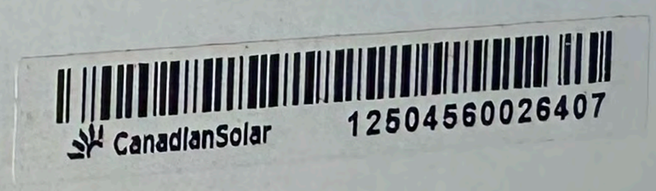
www.csisolar.com support@csisolar.com CSI Solar Co., Ltd.

WARNING-ELECTRIC HAZARD/ATTENTION - RISQUE ELECTRIQUE

This solar module produces electrical voltage when exposed to sunlight or intense artificial lights. Proper precautions associated with electrical power systems must be taken while handling and installing this product.
Ce module génère électrique est exigé pour produire de l'énergie électrique sous forme de courant continu quand soumis à la lumière du jour ou à une source de lumière artificielle. Les précautions adéquates associées aux systèmes de production électrique doivent être prises lors de la manipulation et de l'installation de ce produit.

Conforms to UL61730: 2017

249143



ENPHASE

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AC output power (max. continuous):	349 VA / 345 VA
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UL CERTIFIED
E341165

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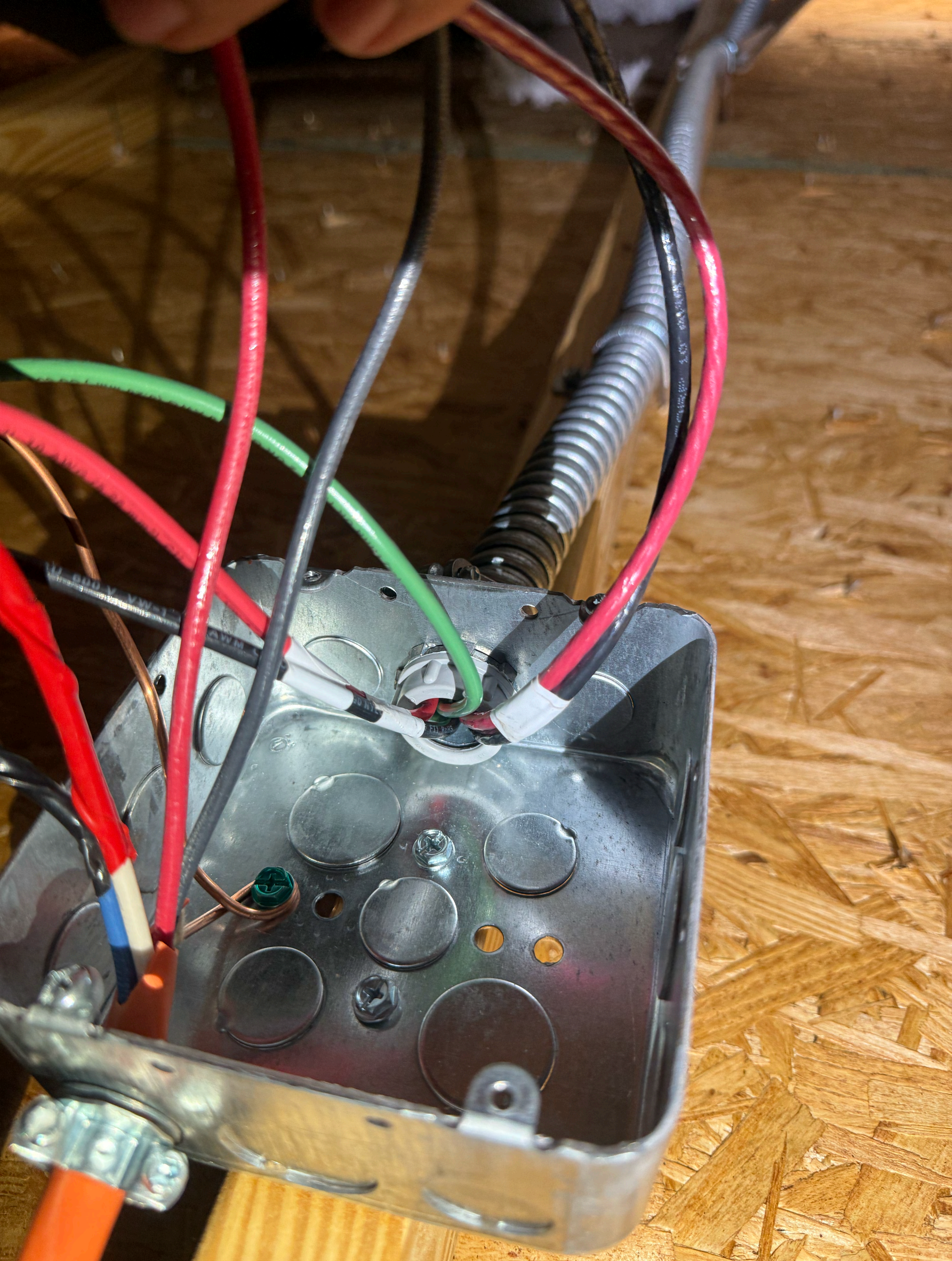
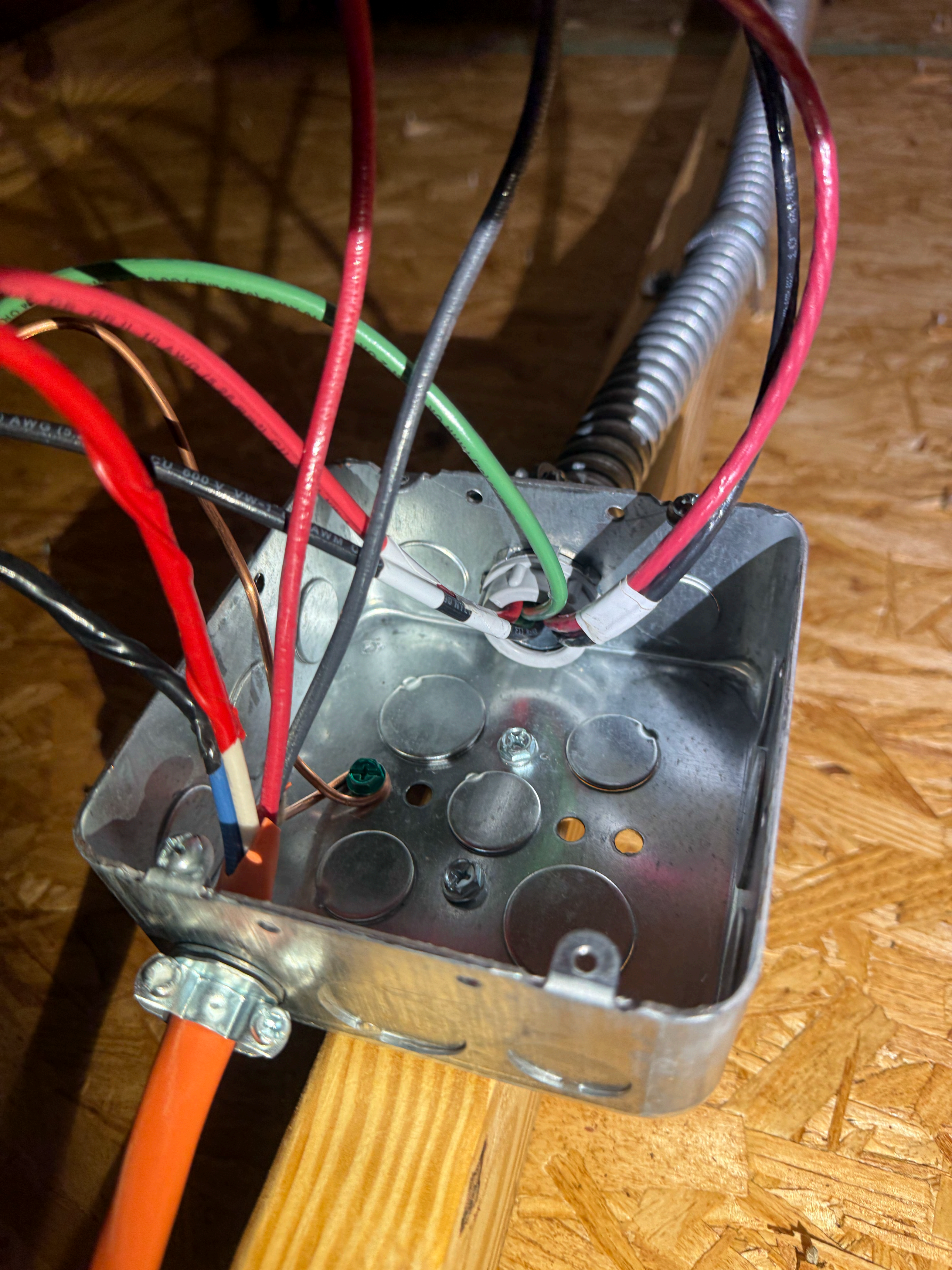
Made in the USA from imported parts

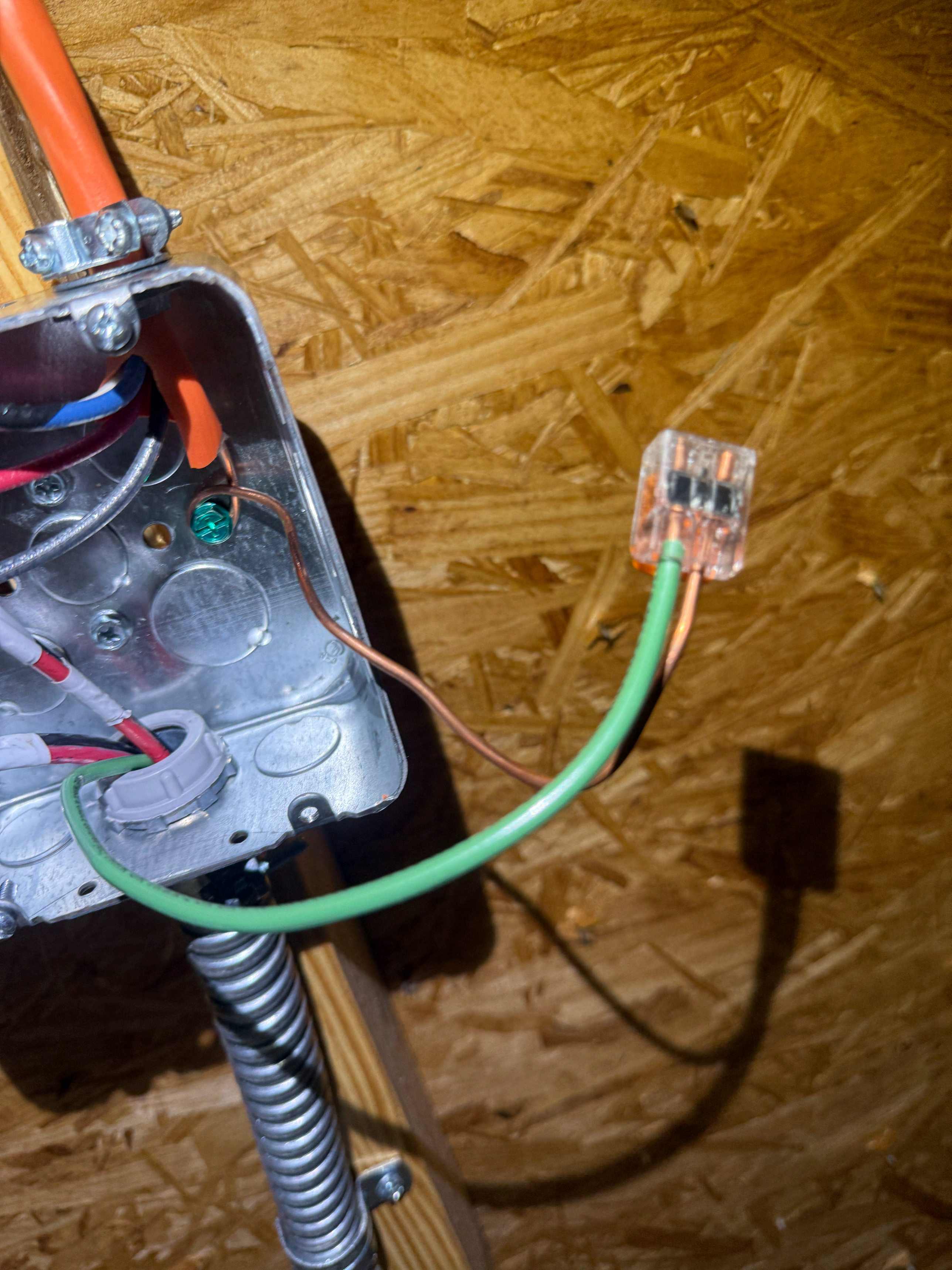
Do not disconnect under load

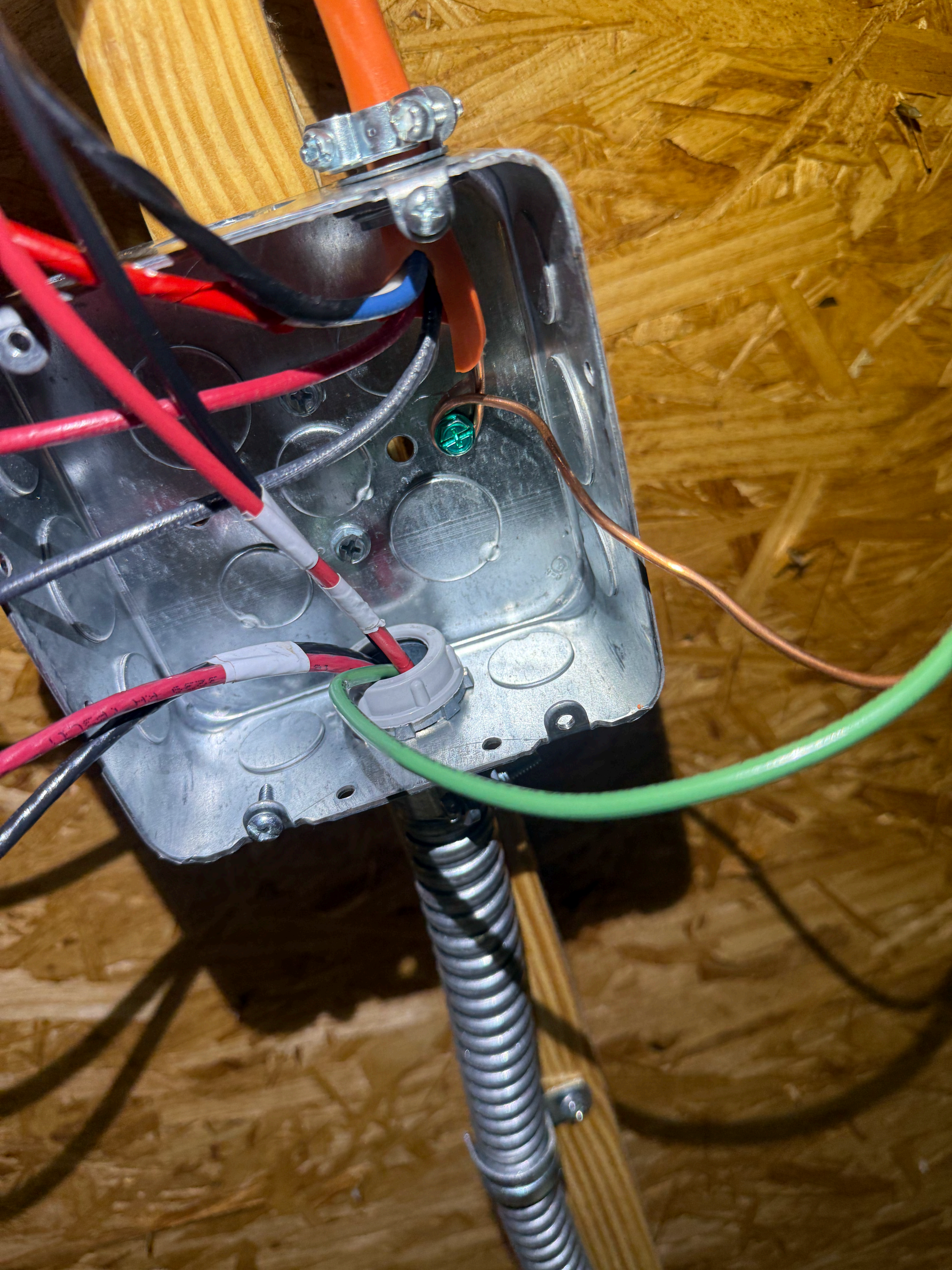
029

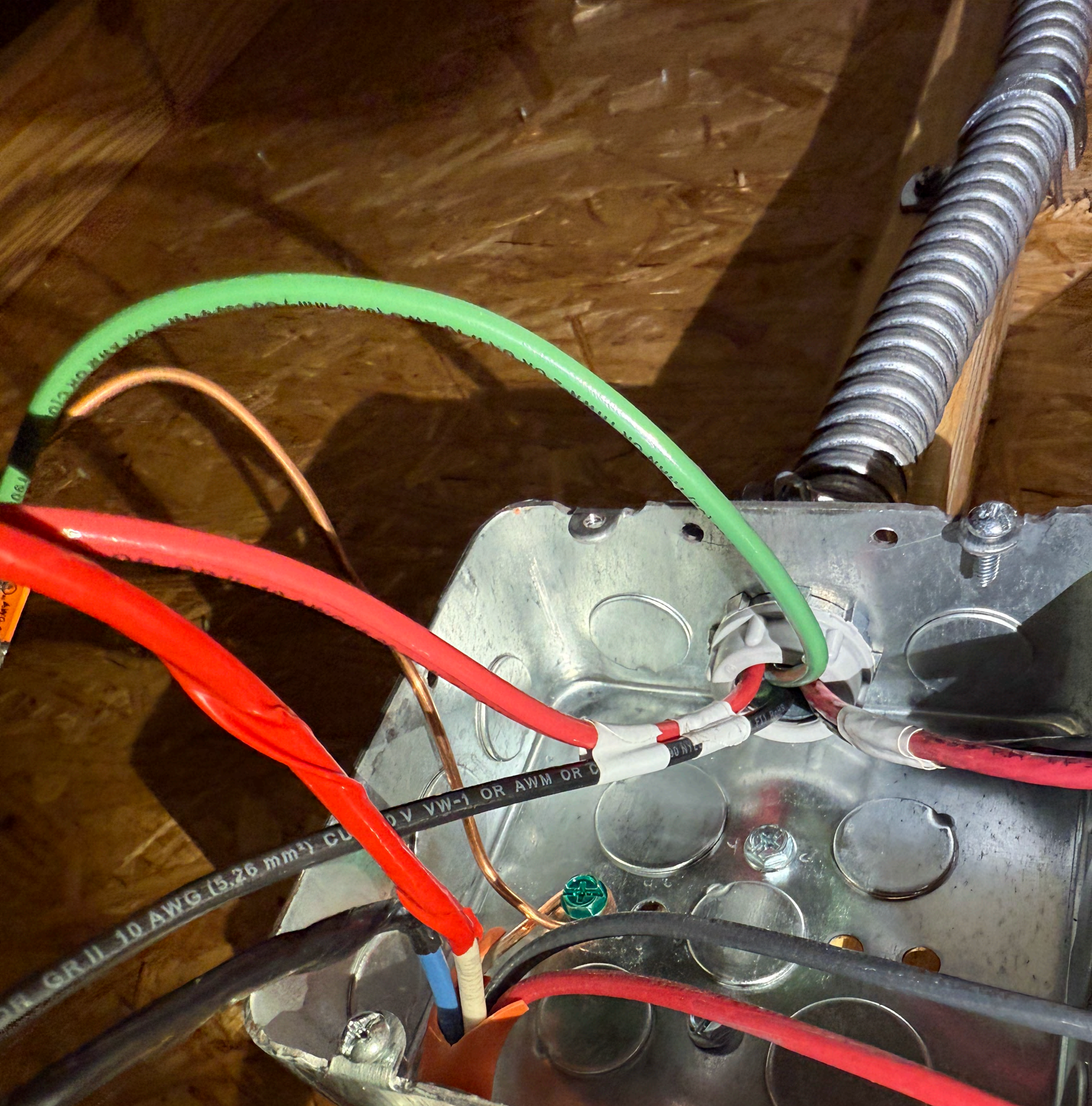
MFR-61

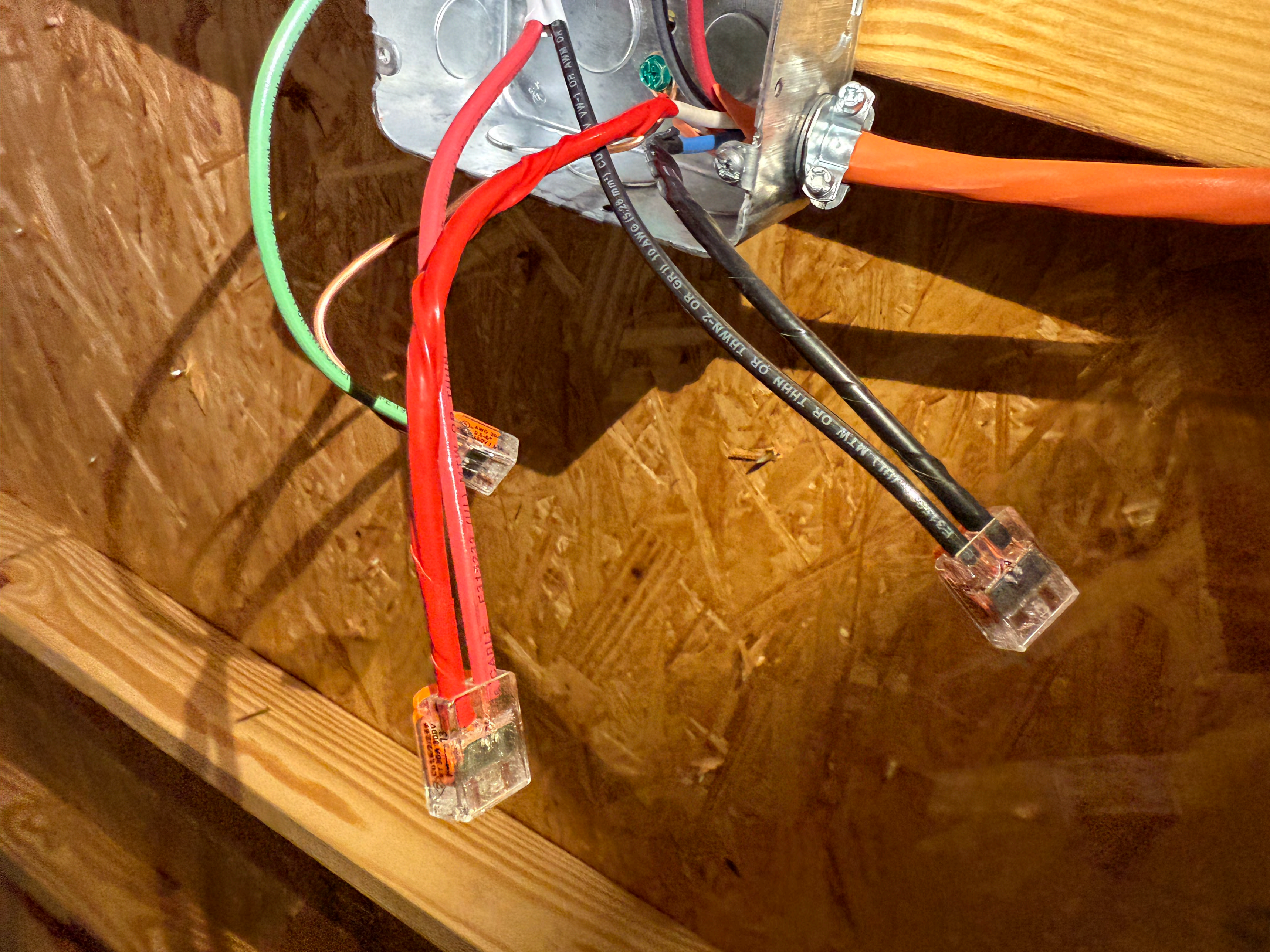


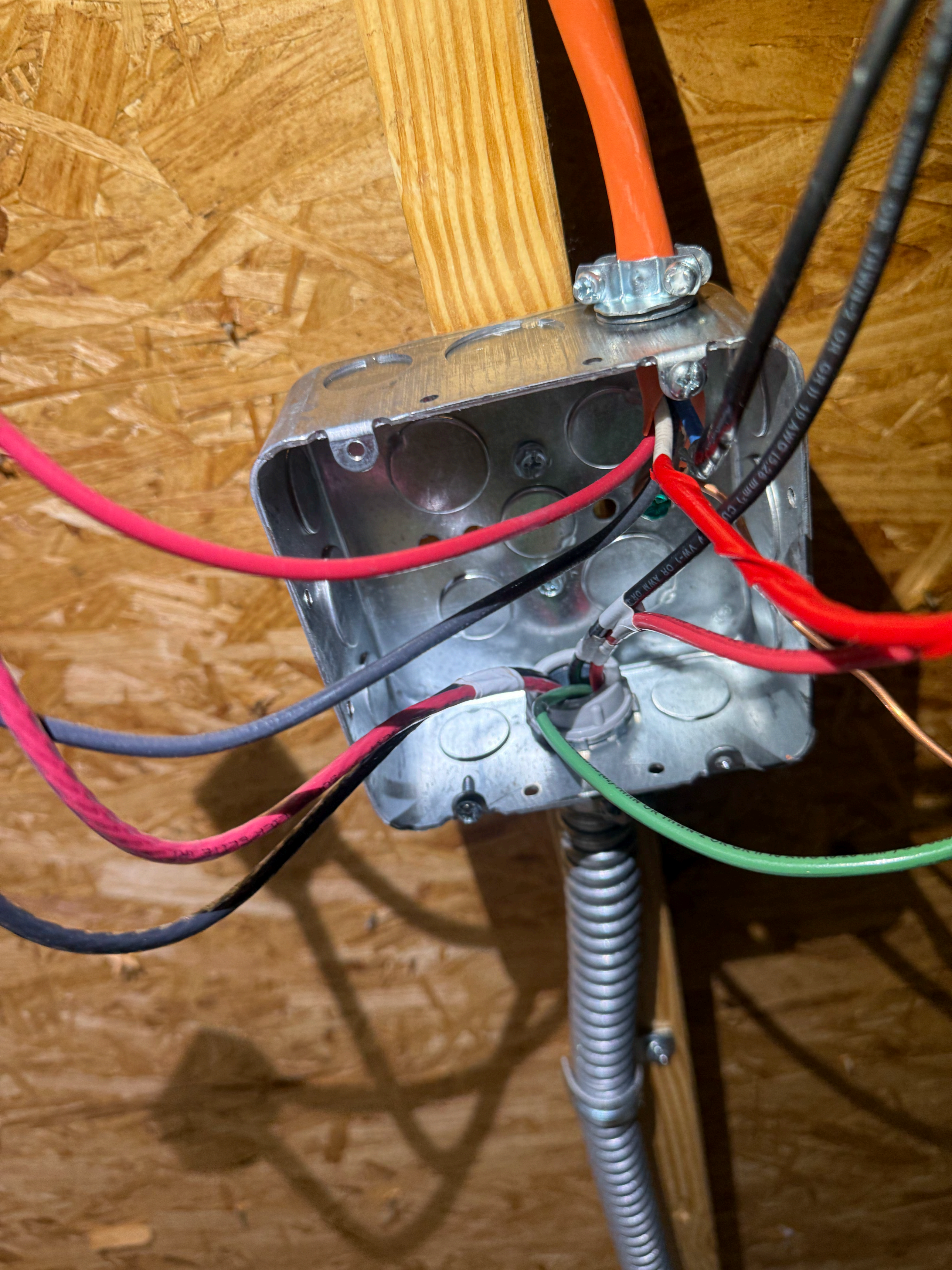


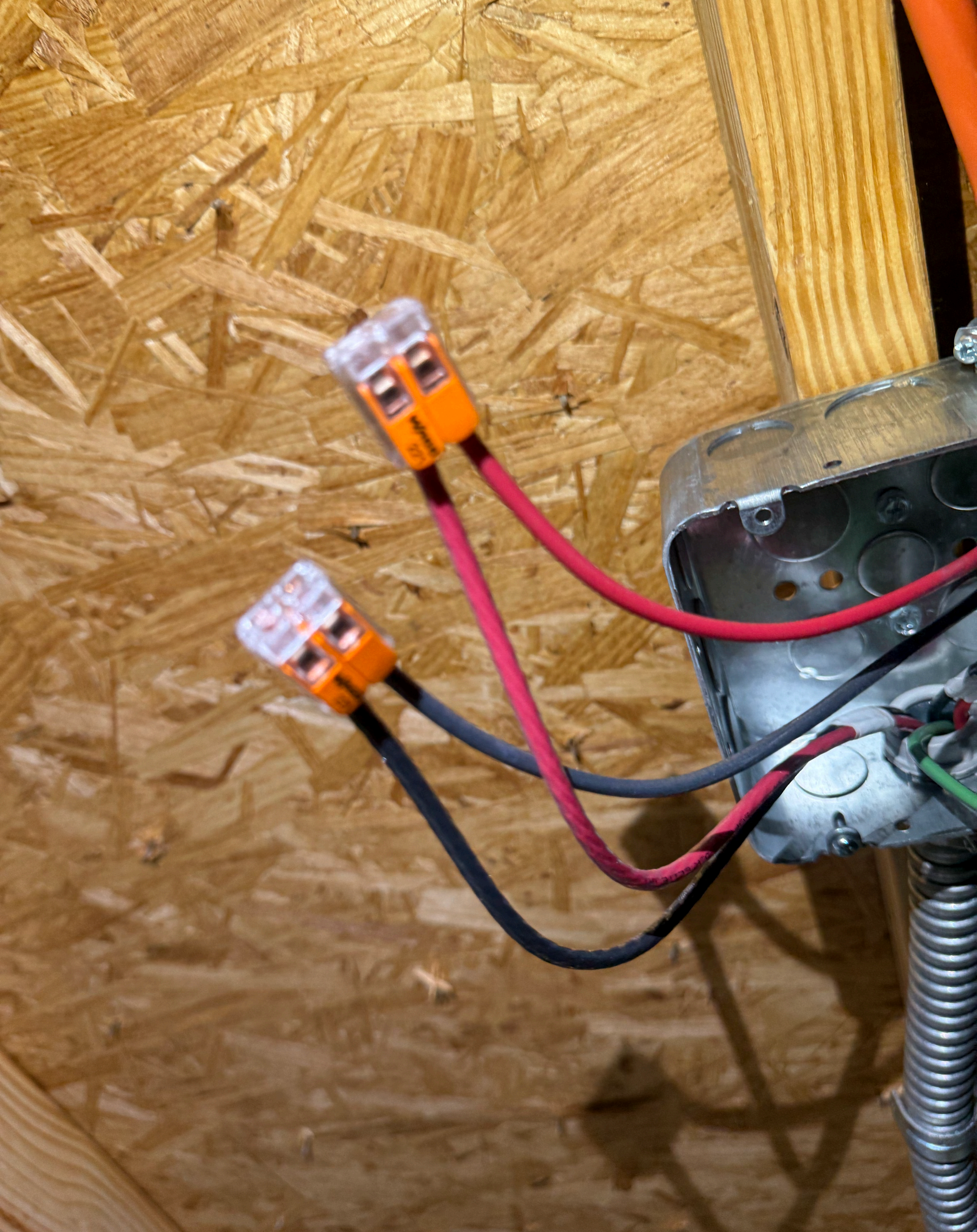





VW-1 OR AWM OR
GR II 10 AWG (5.26 mm²)


VW-1 OR AWM
THWN OR THHN OR THWN-2 OR GRJJ 10 AWG 15kV 105°C



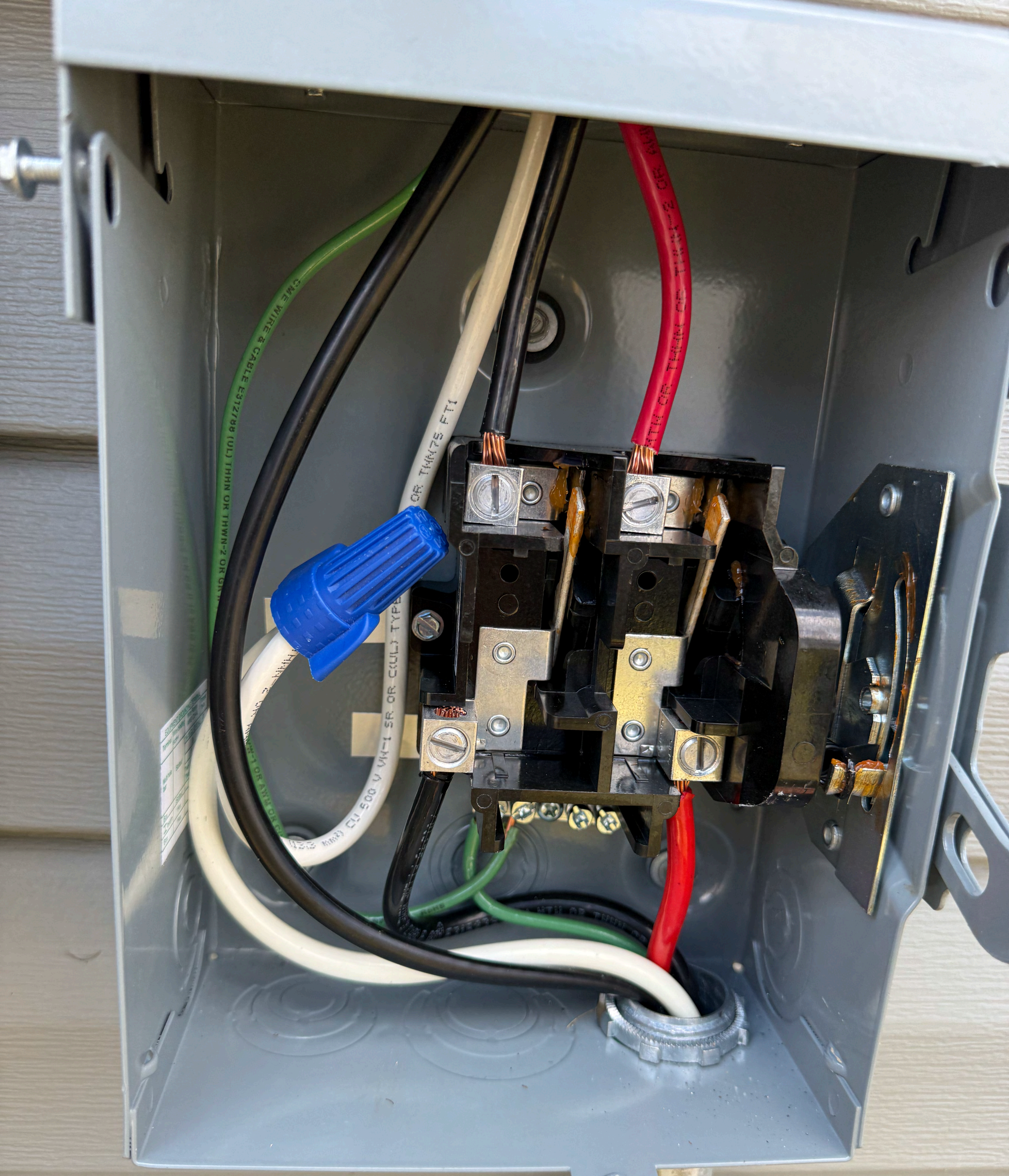


7/16 CAT
ROOM ID BED 1 2 3 4 5 BATH 1 2 3 LR FR DR K UT OTHER 1 2 3 4 SUPERSTOCK ELITE (R) MANUFACTURED UNDER PAT

APA

MAX POSITIVE PRESSURE = 10 IN. WATER THRU 16 IN. DIA.
MAX POSITIVE PRESSURE = 6 IN. WATER OVER 16 IN. DIA.
MAX NEGATIVE PRESSURE = ½ IN. WATER
MAX FLAME SPREAD 25 MAX SMOKE DEVELOPED 50
MAX VELOCITY 5000 FPM FRPM-0,T
SEE INSTALLATION INSTRUCTIONS

6"
FLEXIBLE TECHNOLOGIES, INC.



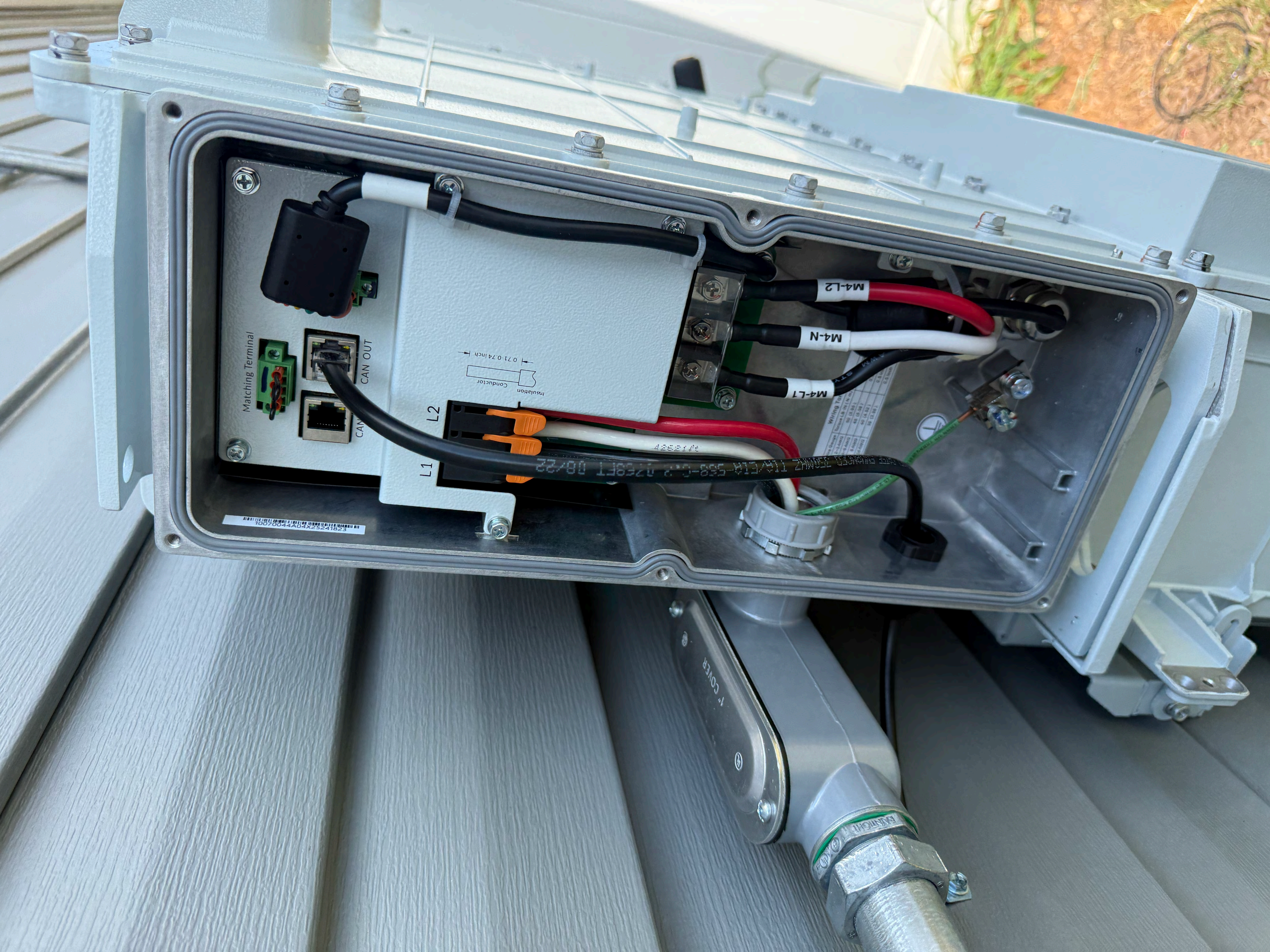
M4-L2
M4-N
0.71-0.74inch
OUT
N L2
AN IN
TIA-FIA-568-C.2 0.752FT 08/22
4" COVER

	(N·m)	Length
G	50 (5.65)	nch
G	45 (5.08)	Inch
G	40 (4.52)	Inch
G	35 (3.95)	Inch

M4-L1

M4-N

M4-L2


Matching Terminal
CAN OUT
L2
L1
0.71-0.74 inch
Conductor
Insulation
M4-L2
M4-N
M4-L1
10070044A04X25241823