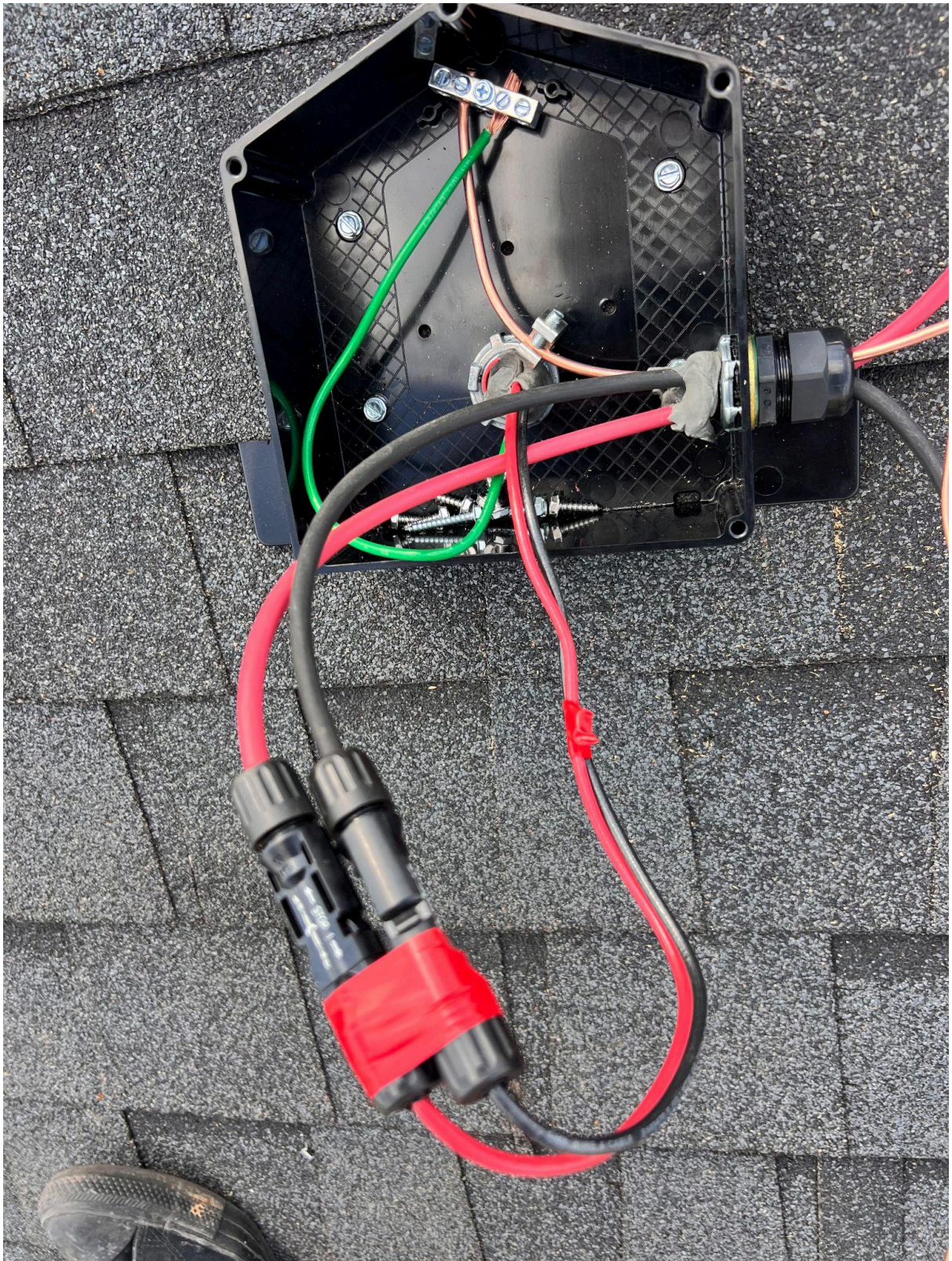
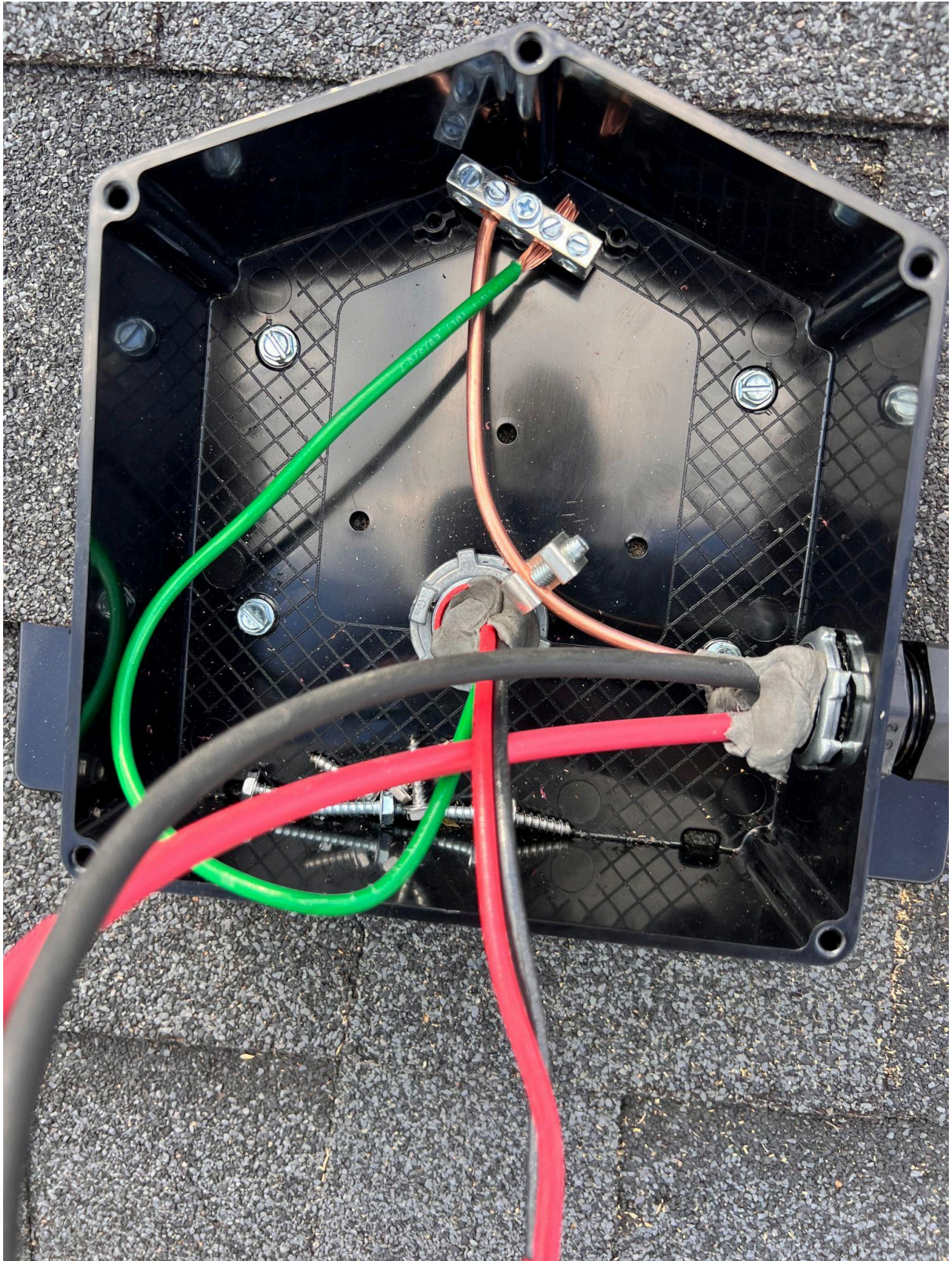










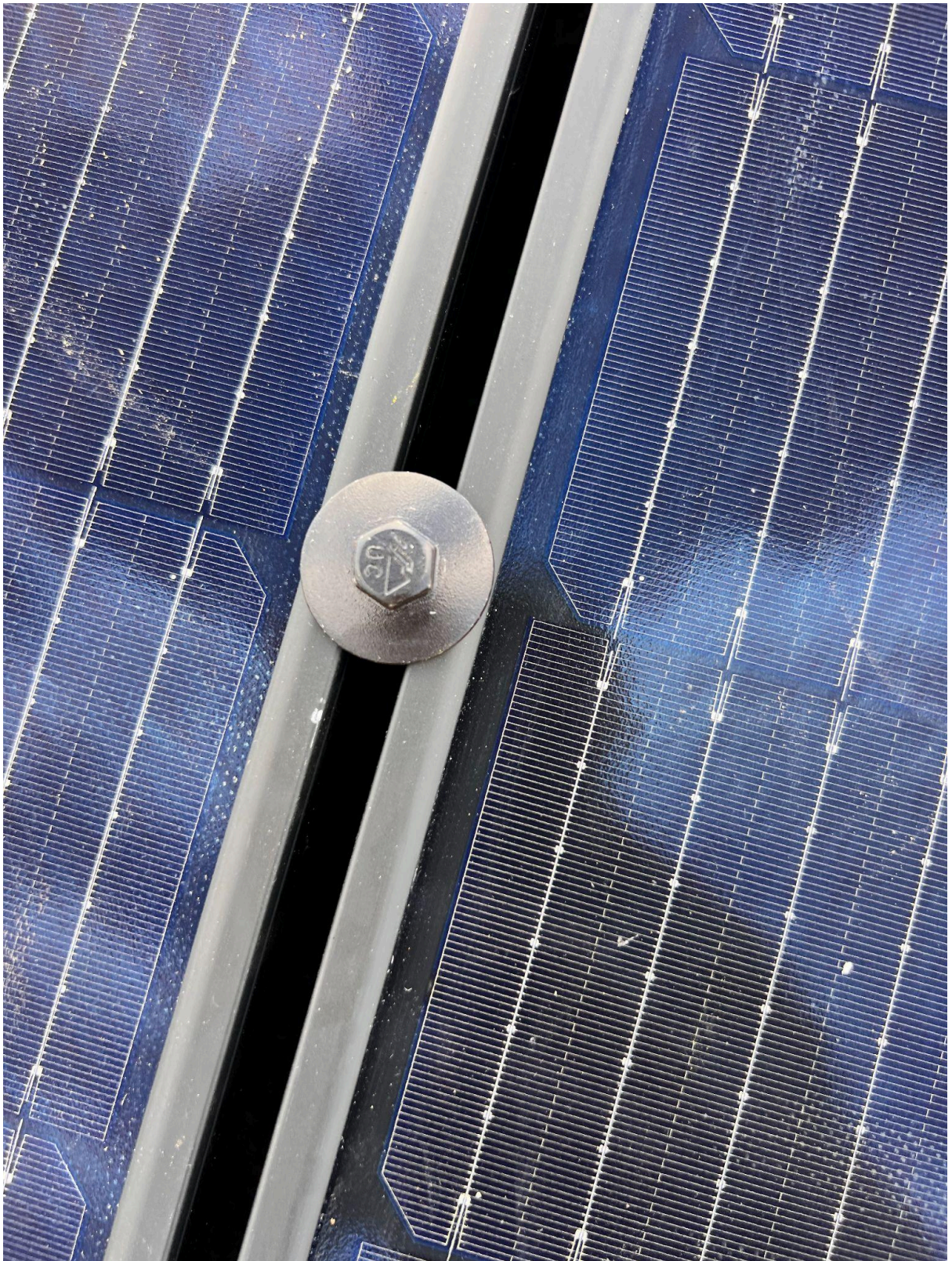








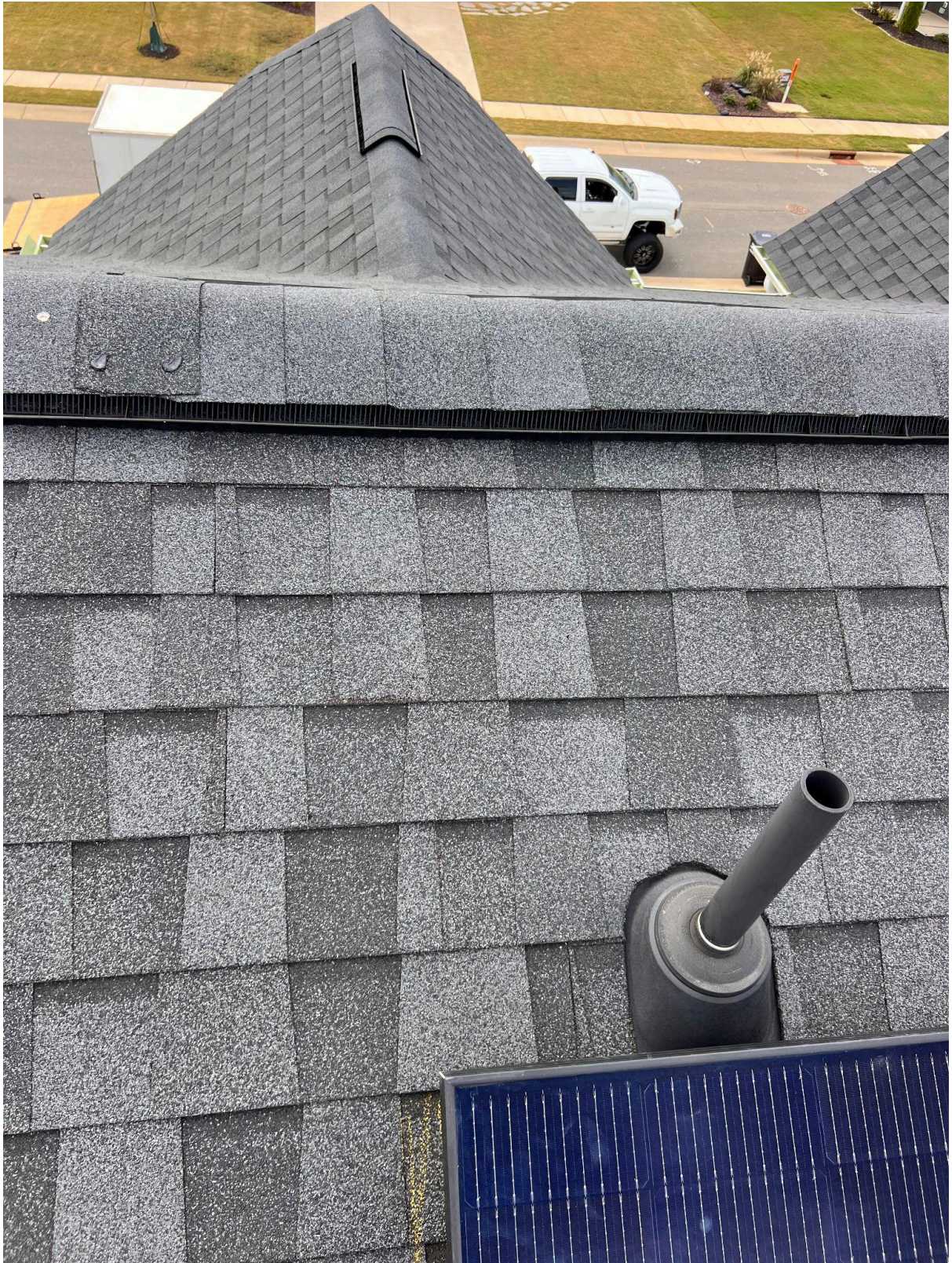
























MAX DC VOLTAGE OF PV SYSTEM: _____ V

**TESLA POWERWALL ENERGY
STORAGE SYSTEM GRID
SUPPORT UTILITY INTERACTIVE
& STANDALONE INVERTER**



TESLA PART NO.
1707000-21-M
SN: TG125129001NKK

**BATTERY ENERGY STORAGE SYSTEM (BESS) &
PHOTOVOLTAIC (PV) POWER CONVERSION EQUIPMENT**

NOMINAL BATTERY ENERGY	13.5 kWh	BESS INVERTER TOPOLOGY	ISOLATED
BATTERY TYPE	LI-ION	OPERATING TEMPERATURE RANGE	-20°C TO 50°C
PROTECTIVE CLASS	CLASS I	DERATED TEMPERATURE RANGE	40°C TO 50°C
ENCLOSURE TYPE	TYPE 3R	MASS	130 kg
PV INVERTER TOPOLOGY	NON-ISOLATED		

BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) SPECIFICATIONS

NOMINAL GRID VOLTAGE INPUT & OUTPUT	240 V (AC)	BESS MAX CONTINUOUS INPUT CURRENT, POWER	
GRID VOLTAGE RANGE	211 V - 264 V (AC)	POWERWALL 3 ONLY	20.8 A (AC) (5 kVA)
PHASE	2W+N+PE	POWERWALL 3 + EXPANSION	33.3 A (AC) (8 kVA)
FREQUENCY	60 Hz	POWER FACTOR	-1 TO +1
MAX SHORT-CIRCUIT CURRENT RATING	10 kA (AC)	PV OPERATING DC INPUT VOLTAGE RANGE	60 - 550 V (DC)
MAX CONTINUOUS OUTPUT CURRENT (AC) (POWER AT 240V)	☐ 24 A (AC) (5.8 kVA) ☐ 32 A (AC) (7.6 kVA) ☐ 42 A (AC) (10 kVA) ☐ 48 A (AC) (11.5 kVA)	PV OPERATING DC MPPT VOLTAGE RANGE	60 - 480 V (DC)
MAX CONTINUOUS OUTPUT CURRENT OFF-GRID (PV ONLY, -20°C TO 25°C)	☐ 64 A (AC) (15.4 kVA)	PV MAX SYSTEM VOLTAGE	600 V (DC)
		PV MAX INPUT CURRENT	15 A (DC)
		PV DC ARC FAULT PROTECTION	TYPE 1



5 MINUTES



CONFORMS TO UL STD 9540, UL STD 1741, UL STD 1873, UL STD 1699B,
CSA C22.2 No. 107.1, CSA 22.2 No. 130, CSA 22.2 No. 9.242,
CONTAINS FCC ID: 2AEIM-WL180BMOD, XMR2020B0695M2,
CONTAINS IC: 20058-WL180BMOD, 10224A-2020B0695M2
GRID SUPPORT INTERACTIVE INVERTER - CSA C22.3 NO. 9 - SUPPLEMENTAL
PHOTOVOLTAIC DC ARC FAULT DETECTOR PROTECTION
SUITABLE FOR SERIES AND PARALLEL ARCING FAULT PROTECTION

THE MAXIMUM OPERATING CURRENT OF THIS SYSTEM MAY BE CONTROLLED ELECTRONICALLY. REFER TO
THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

PHOTOVOLTAIC (PV) RAPID SHUTDOWN SYSTEM EQUIPMENT RS2

ONLY THE INDICATED TERMINALS OF THIS PRODUCT COMPLY WITH PV RAPID SHUTDOWN REQUIREMENTS
FOR CONTROLLED CONDUCTORS OUTSIDE THE ARRAY PVSS CONTROLLED CONDUCTOR CONNECTION
PORT. REFER TO INSTRUCTIONS FOR CONDITIONS OF USE.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS
INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. BOTH AC AND DC VOLTAGE SOURCES
ARE TERMINATED INSIDE THIS EQUIPMENT. EACH CIRCUIT MUST BE INDIVIDUALLY DISCONNECTED
BEFORE SERVICING. WHEN THE PV ARRAY IS EXPOSED TO LIGHT IT SUPPLIES A DC VOLTAGE TO THIS
EQUIPMENT.

WARNING: - ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PV SYSTEM ARE
NORMALLY UNGROUNDED BUT WILL BECOME INTERMITTENTLY GROUNDED WITHOUT INDICATION WHEN
THE INVERTER MEASURES THE PV ARRAY ISOLATION. ENERGY STORED IN CAPACITOR. DO NOT REMOVE
COVER UNTIL 5 MINUTES AFTER DISCONNECTING THE EQUIPMENT. POWER FED FROM MORE THAN ONE
SOURCE. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.

ATTENTION : DES SOURCES D'ALIMENTATION C.A. ET C.C. SONT BRANCHÉES DANS CET
EQUIPEMENT AVANT L'ENTRETIEN. CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ LORSQUE LE CHAMP DE
MODULES PHOTOVOLTAÏQUES EST EXPOSÉ À LA LUMIÈRE. IL FOURNIT UNE TENSION CONTINUE À CET
EQUIPEMENT.

AVERTISSEMENT : RISQUES D'ÉLECTROCUTION. NE PAS RETIRER LE COUVERCLE
ÉLECTRIQUE. LES CONDUCTEURS DE TENSION CONTINUE DE CE SYSTÈME PHOTOVOLTAÏQUE SONT
NORMALEMENT NON MIS À LA TERRE. MAIS ILS DEVIENDRONT PAR MOMENT MIS À LA TERRE. SANS
AVERTISSEMENT, LORSQUE L'ONDULEUR MESURE L'ISOLATION DU CHAMP DE MODULES
PHOTOVOLTAÏQUES. ÉNERGIE STOCKÉE DANS LE CONDENSATEUR. ATTENDEZ AU MOINS 5 MINUTES APRÈS
AVOIR DÉCONNECTÉ L'EQUIPEMENT AVANT DE RETIRER LE COUVERCLE. ALIMENTATION PROVENANT DE
PLUSIEURS SOURCES. DÉCONNECTEZ DE TOUTES LES SOURCES DE COURANT AVANT DE PROCÉDER À
L'ENTRETIEN.

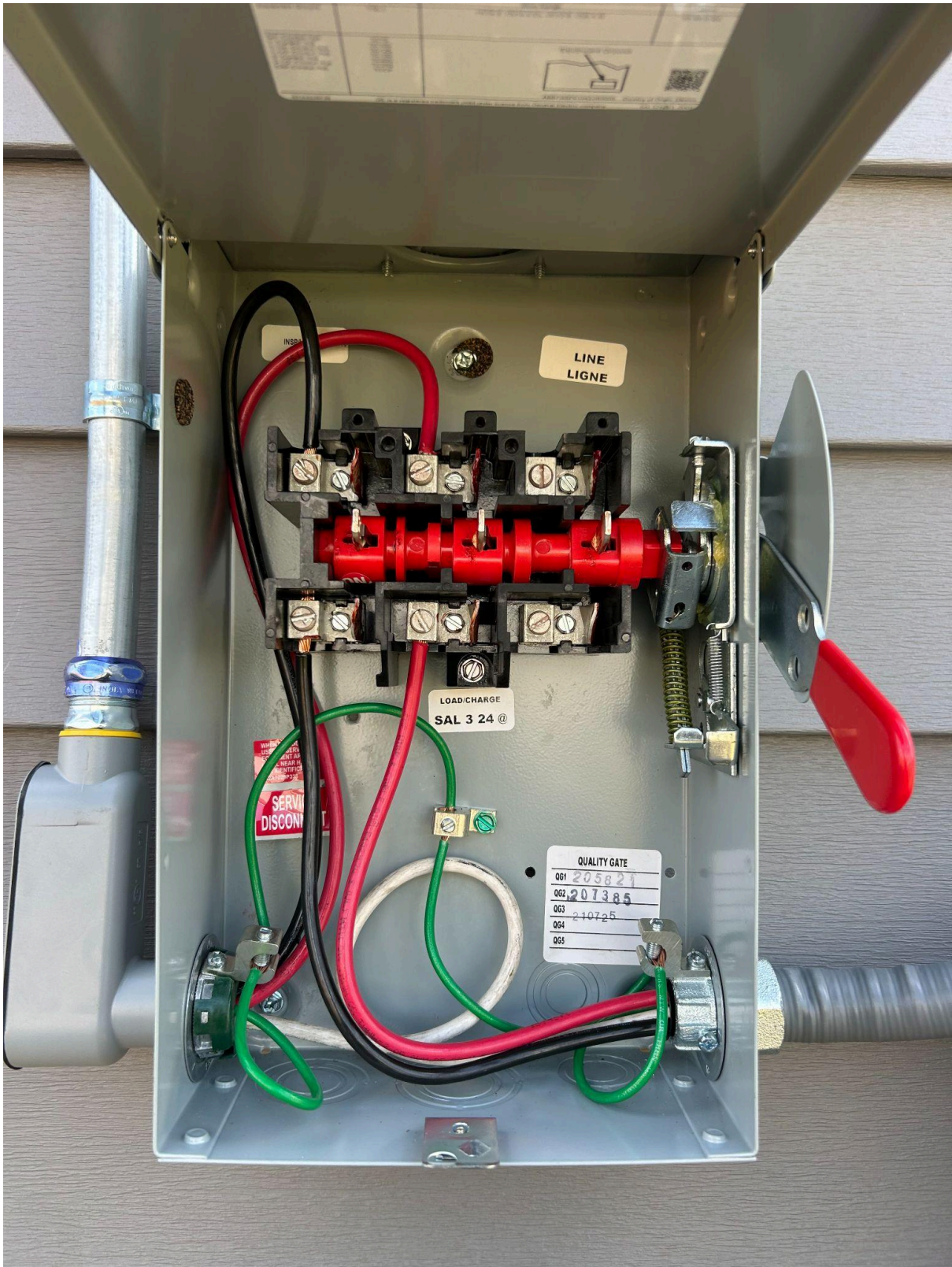
TESLA
COUNTRY OF ORIGIN: US

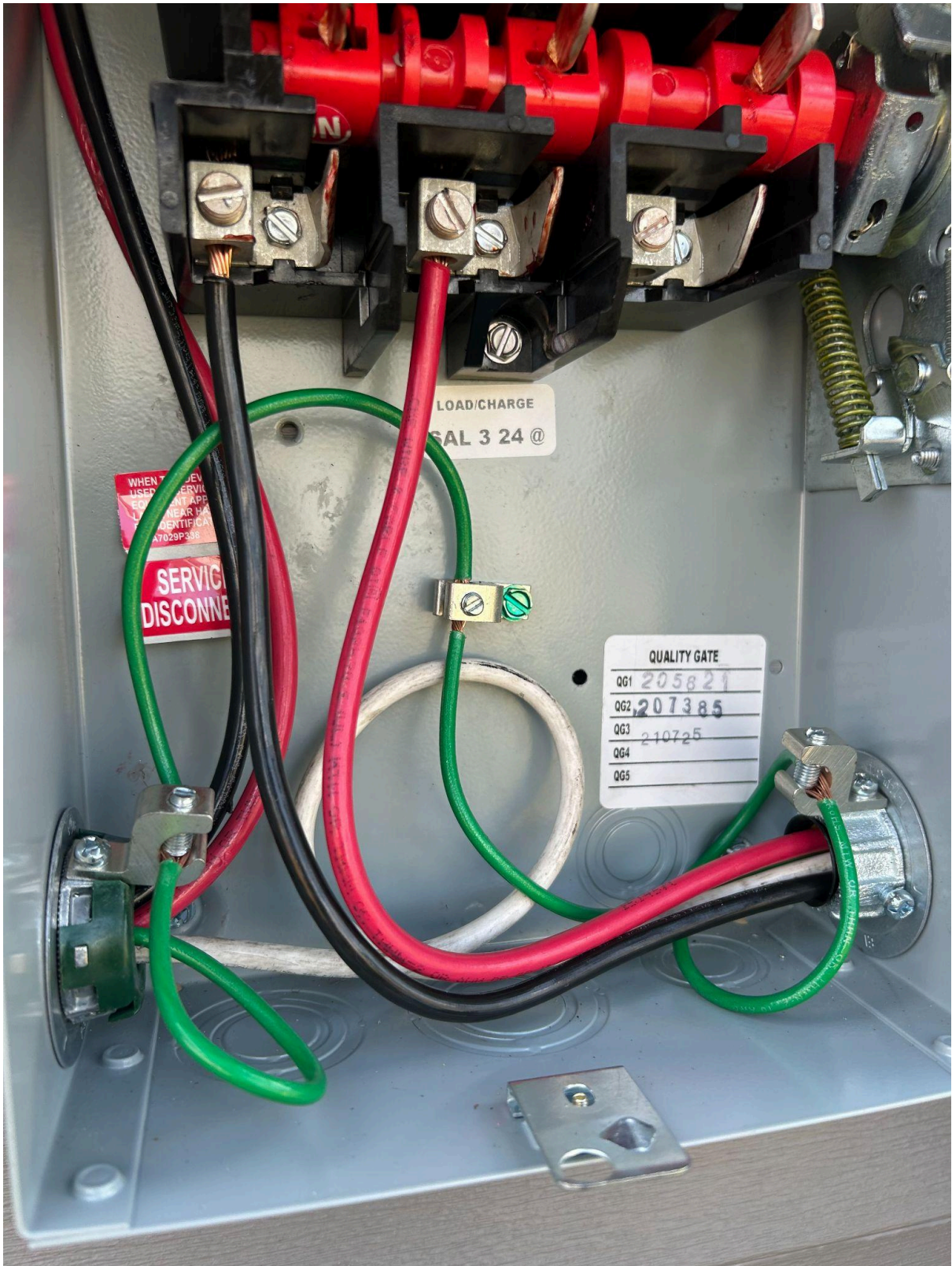
TESLA, INC.
550 MILAN DR
SPARKS, NV, 89437, USA
TEL: 1(877)798-3752
WWW.TESLA.COM











LOAD/CHARGE

SAL 3 24 @

WHEN THE DEVI
USED FOR SERVIL
FOR MANT APP
LIM NEAR BA
IDENTIFICA
A7029P338

SERVICE
DISCONNE

QUALITY GATE

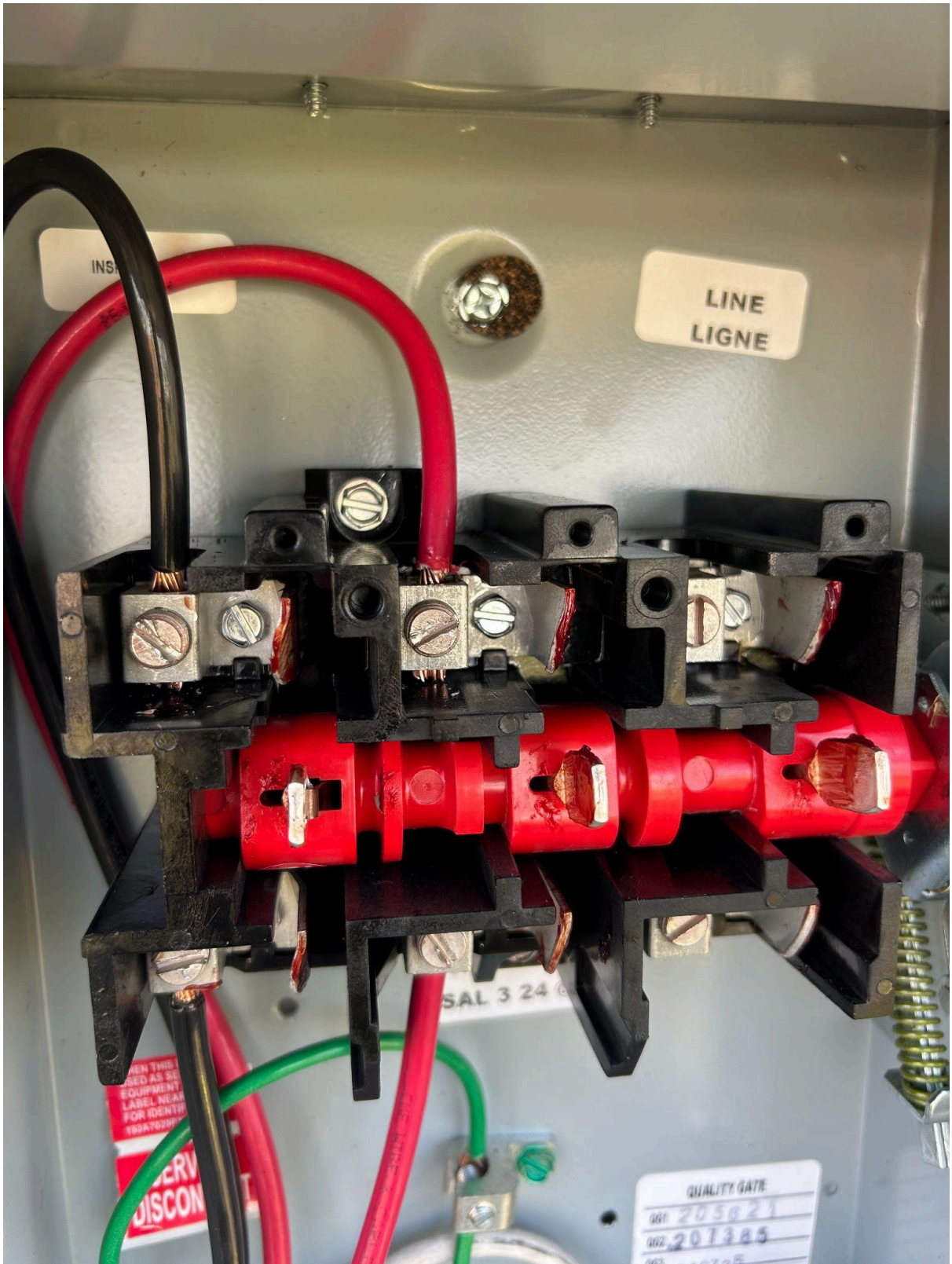
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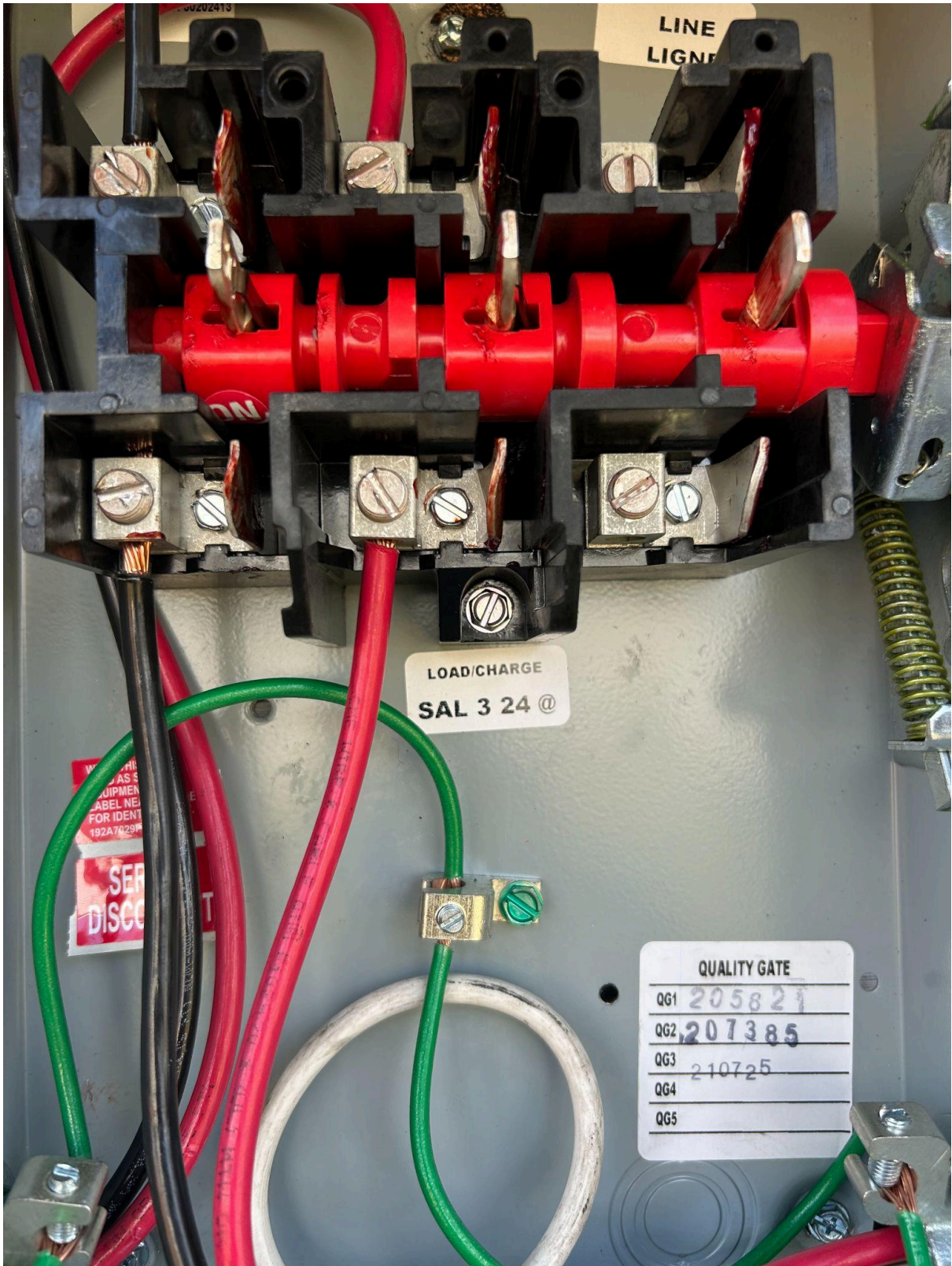
QG2 207385

QG3 210725

QG4

QG5







Safety Switch



ENCLOSED SWITCH
ISSUE NO. AL-223

TGN3322R Model: 9 60A 240Vac/250Vdc 3 Pole 50/60Hz

Type 3R Enclosure.

Suitable for use as Service Equipment.

Volts

Horsepower Ratings

@ Not for use as a motor controller.

Use any two poles

	1 Phase		3 Phase		DC	
	Std.	Max.	Std.	Max.	Std.	Max.
240Vac	10		15			
250Vdc					10	10

Not suitable for use as service entrance in Canada.
Non convenable pour utilisation d'entrée de service selon le code électrique canadien, 1^{ère} Partie.

Continuous load current not to exceed 80% of the rating of fuses employed in other than motor circuits.

Toute charge continue ne devra pas excéder 80% du calibre des fusibles utilisés sauf s'il s'agit de circuits de moteur.

*The starting current for motors of more than the standard horsepower ratings may require the use of fuses with appropriate time-delay characteristics.

*S'il le courant de démarrage du moteur dépasse le courant correspondant à la puissance maximale indiquée, il peut être nécessaire d'utiliser des fusibles à action différée appropriés.

This switch is suitable for use on a circuit capable of delivering not more than 10,000 amperes RMS symmetrical 240Vac maximum, and not more than 10,000 amperes 250Vdc, when protected by fuses or an overcurrent device rated 60A maximum. For Series Ratings information refer to publication DET008.

Terminals (Use 60° or 75°C Cu. or Al. Wire)

Line and Load: #12-2 Cu/Al Tighten to 35-50 in-lbs.

Field replaceable Line, Load, and Equipment Ground Lugs can be found in publication DET-845 or the ABB Buy! og.

ALUMINUM WIRE CAN CAUSE OVERHEATING. LES CABLES ALUMINUM PEUVENT ENTRAINER UNE SURCHAUFFE. To connect aluminum wire, strip insulation without nicking wire. Wire brush and coat with anti-oxidant compound, such as Alnox or Penetrox A13. Insert conductor and tighten per torque specification.

Seismic Certification: OSP-0320, Support and Attachments: Wall Mount.

Seismic Performance Characteristics: SDS(g)=2.0 at z/h=1.0 and SDS(g)=2.5 at z/h=0

Warning Instructions:

TURN OFF SWITCH: Before removing or installing fuses. TURN POWER OFF ahead of switch before doing other work inside. Replace all parts. Close cover before turning power ON. DANGER Unless Class R fuses are used, this switch may present a risk of fire or personal injury if installed in circuits capable of delivering more than 10,000 RMS symmetrical amperes. Information regarding performance under unusual service conditions should be obtained from the ABB Examples of unusual service conditions are:
(1) Temperature above +50°C (+122°F) or below -30°C (-22°F).
(2) Altitudes above 6600 feet.
(3) Corrosive or explosive environments.
(4) Undue vibrations, shock or tilting or unique operating duties.

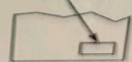
Mises En Garde:

Ouvrir l'interrupteur avant d'enlever ou de poser des fusibles. Couper l'alimentation en amont de l'interrupteur avant de procéder au travail dans ce boîtier. Remettre tous les éléments en place. Refermer le couvercle avant de remettre sous tension. DANGER: À moins que les fusibles installés dans cet interrupteur ne soient de Class R, celui-ci peut présenter un risque d'incendie et de blessures s'il est branché à une source susceptible de débiter un courant symétrique de plus de 10,000A. S'adresser à la ABB, en ce qui a trait aux caractéristiques en conditions d'utilisation inhabituelles, telles que:
(1) Température ambiante supérieure à +50°C (+122°F) ou inférieure à -30°C (-22°F).
(2) Altitudes supérieures à 6 600 pi.
(3) Présence d'agents corrosifs ou explosifs.
(4) Des Vibrations intenses, chocs ou inclinaison ou situation unique.

ACCESSORIES:

Item	Product No.	Wire Range	Torque
Equipment Ground	TGL1	(4)14-8, (3)14-4 Cu, (4)12-8, (3)8-4 Al	35-45 in lbs
3/8" Conduit Hub	TC78		
1" Conduit Hub	TC100		
1-1/4" Conduit Hub	TC125		
1-1/2" Conduit Hub	TC150		
2" Conduit Hub	TC200		
2-1/2" Conduit Hub	TC250		
GFP Conduit Hub	TCGP		

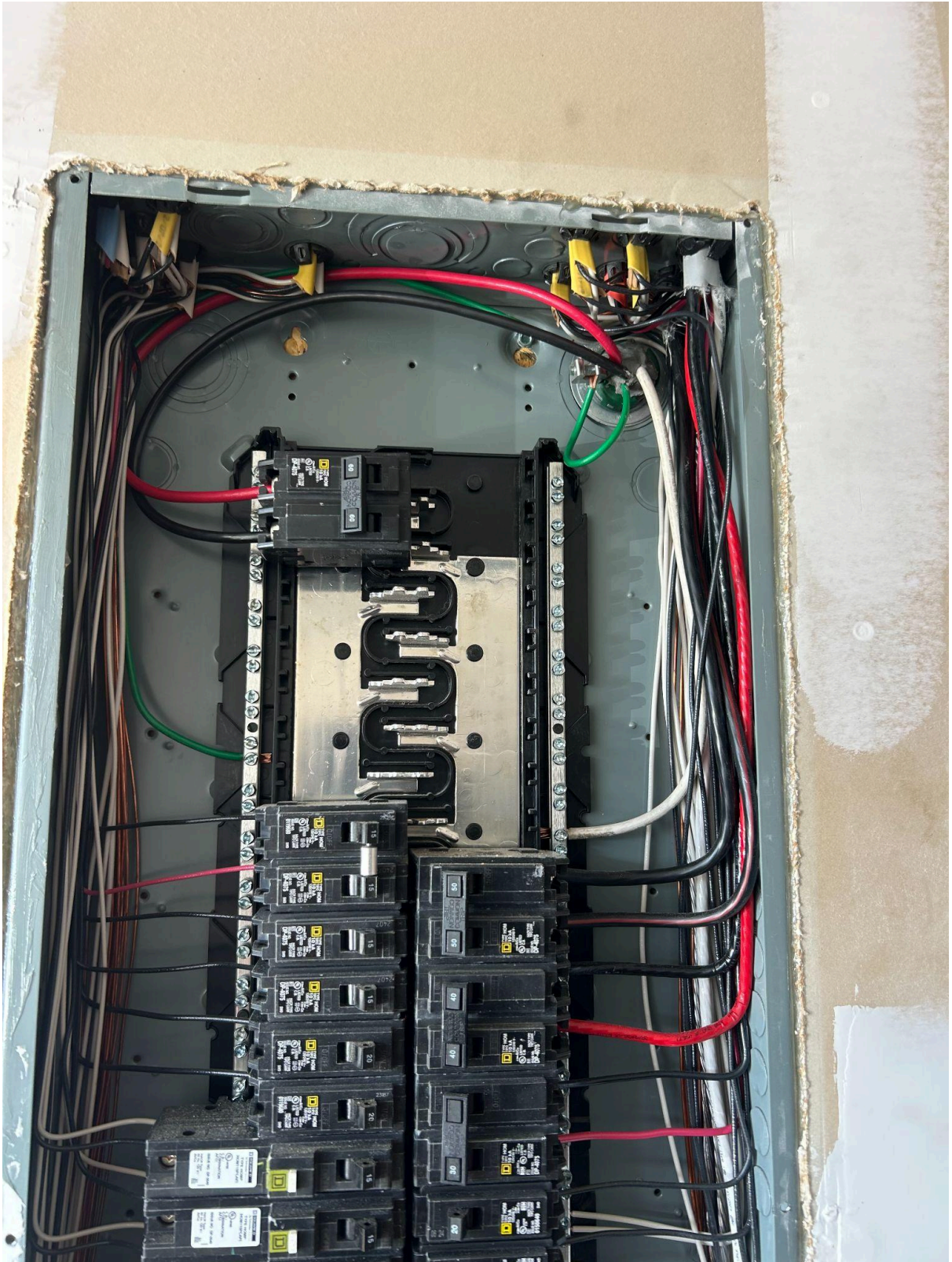
Equipment Ground.

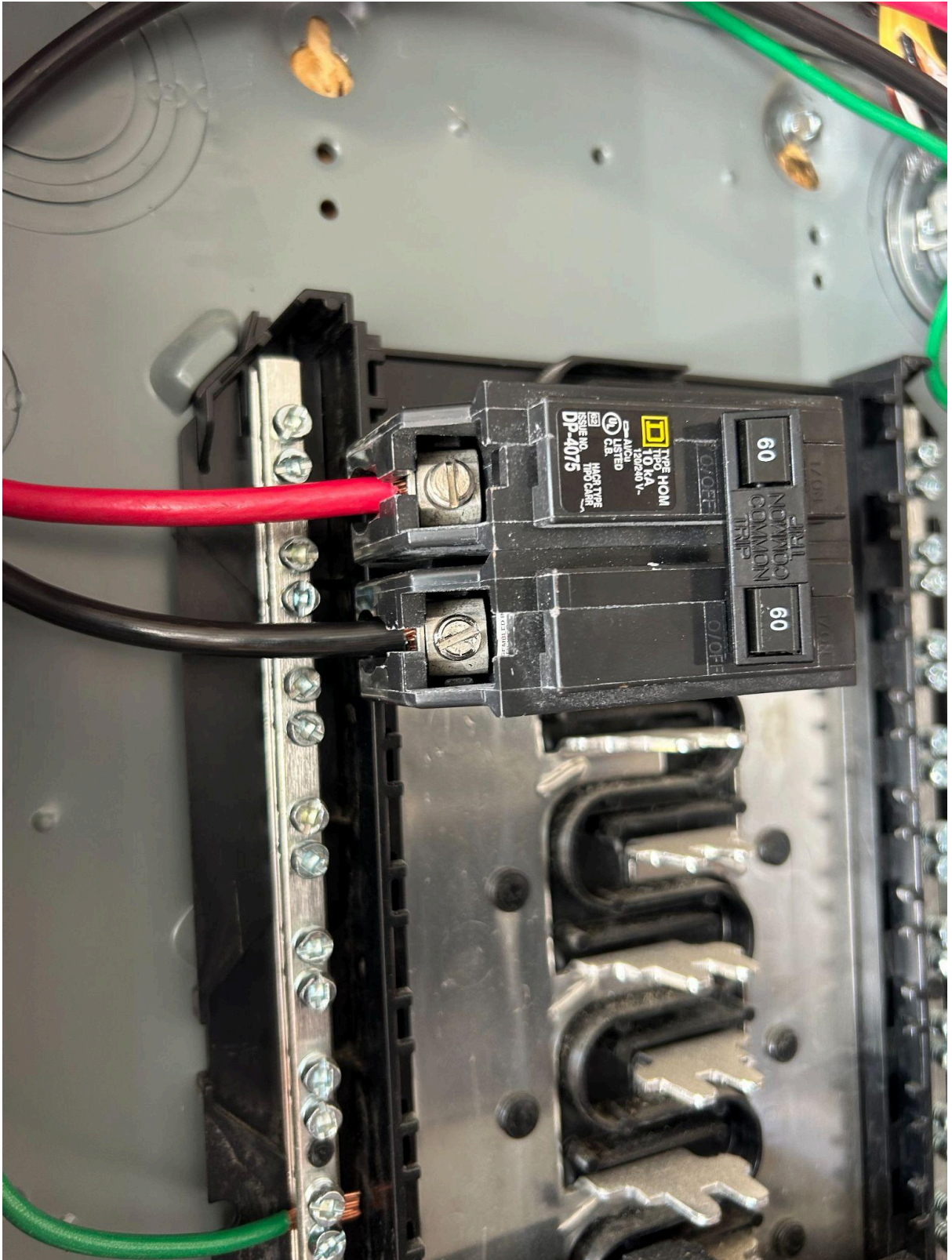


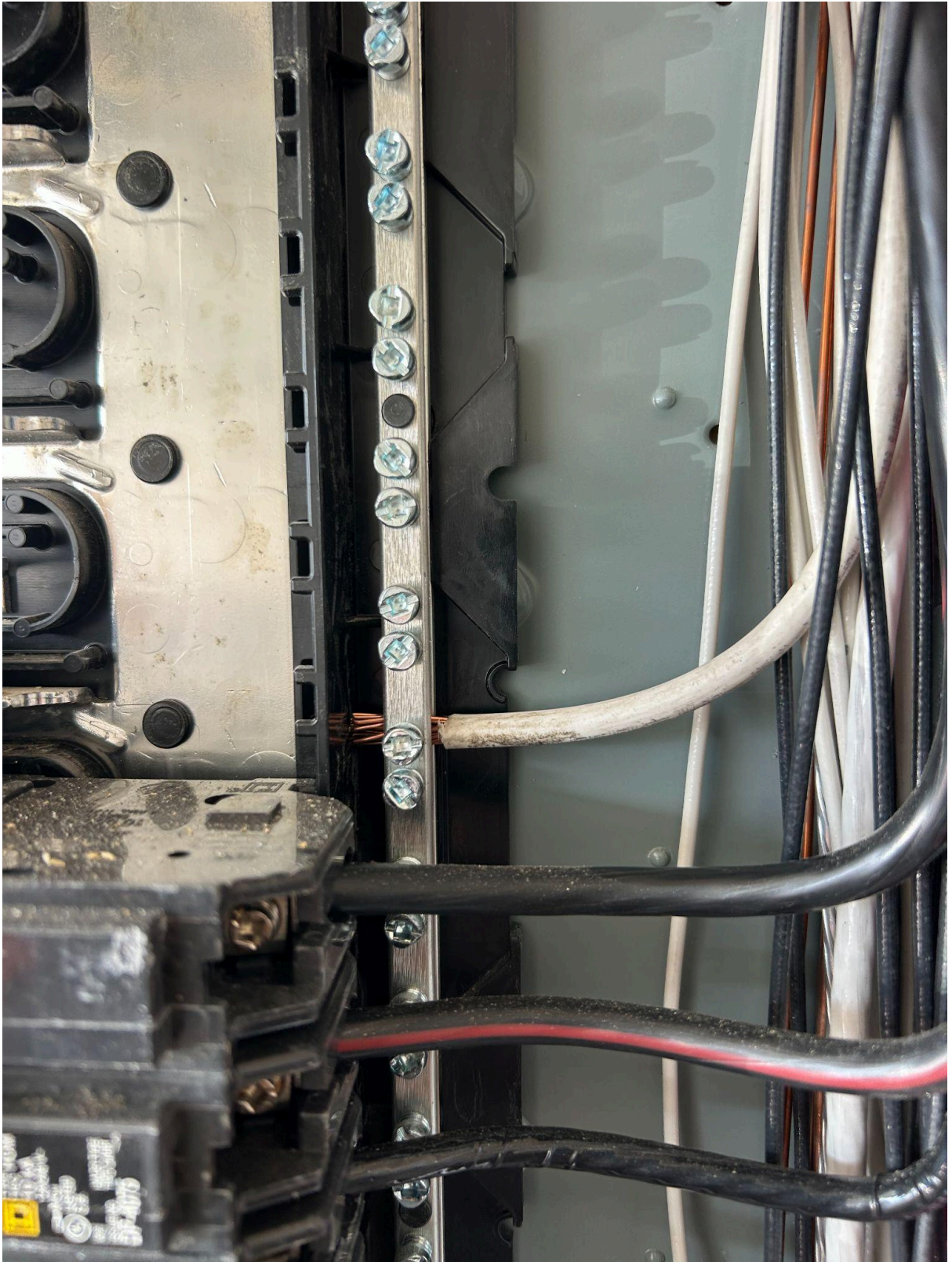
331A322R/28

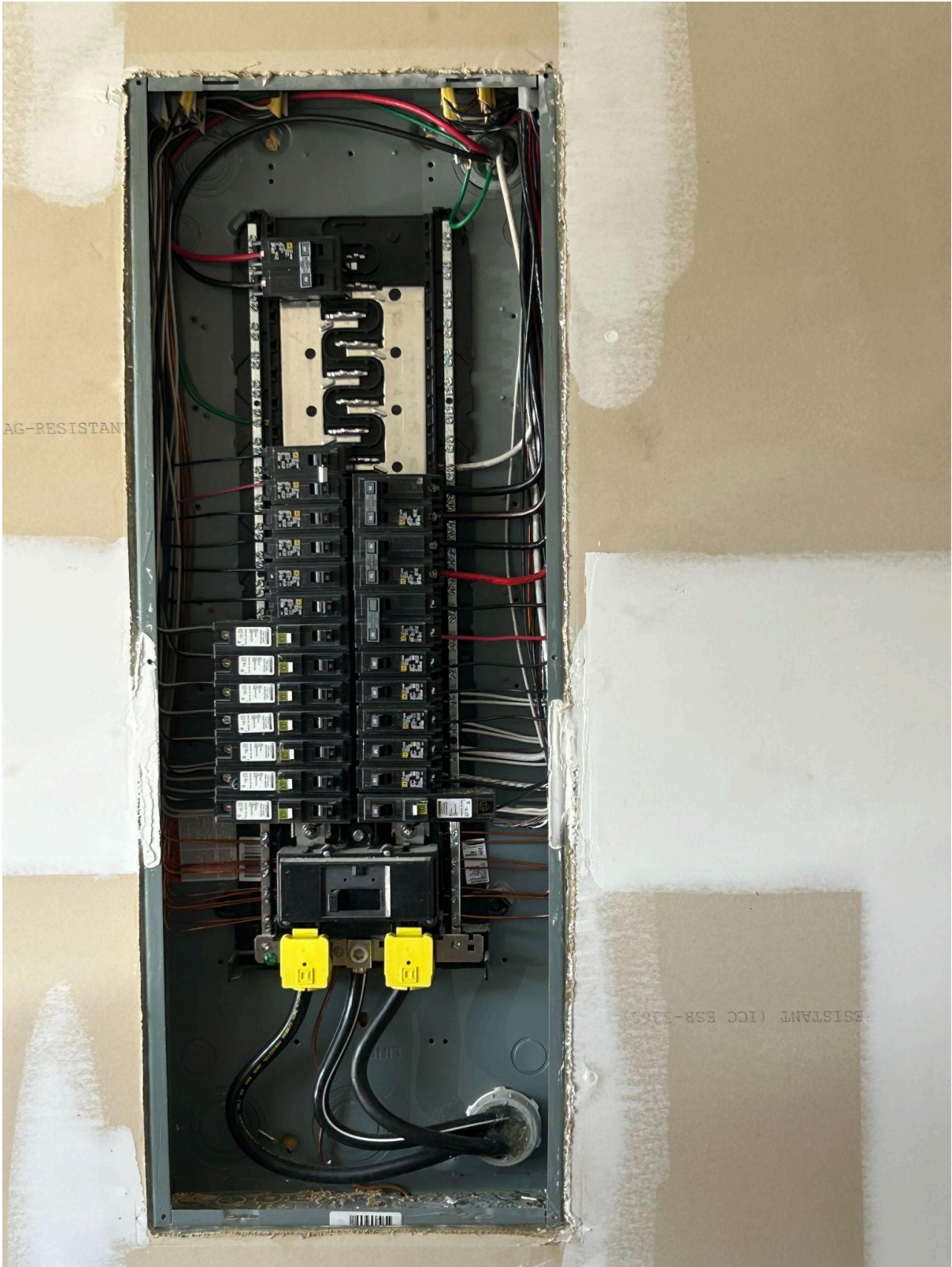
GE, its subsidiaries and its licensors, including Science North, are not responsible for the use of this product.

GE, 331A322R/28







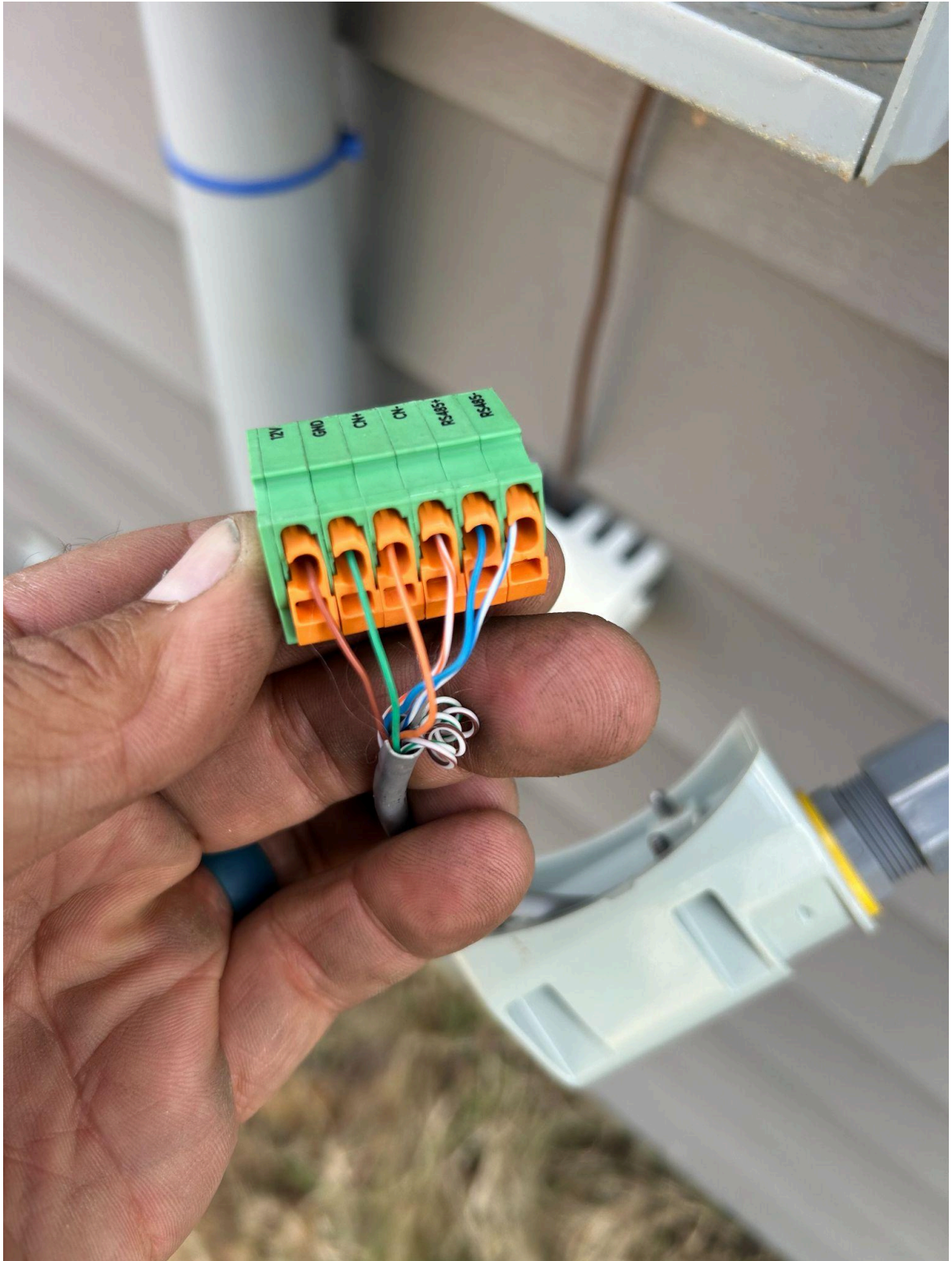




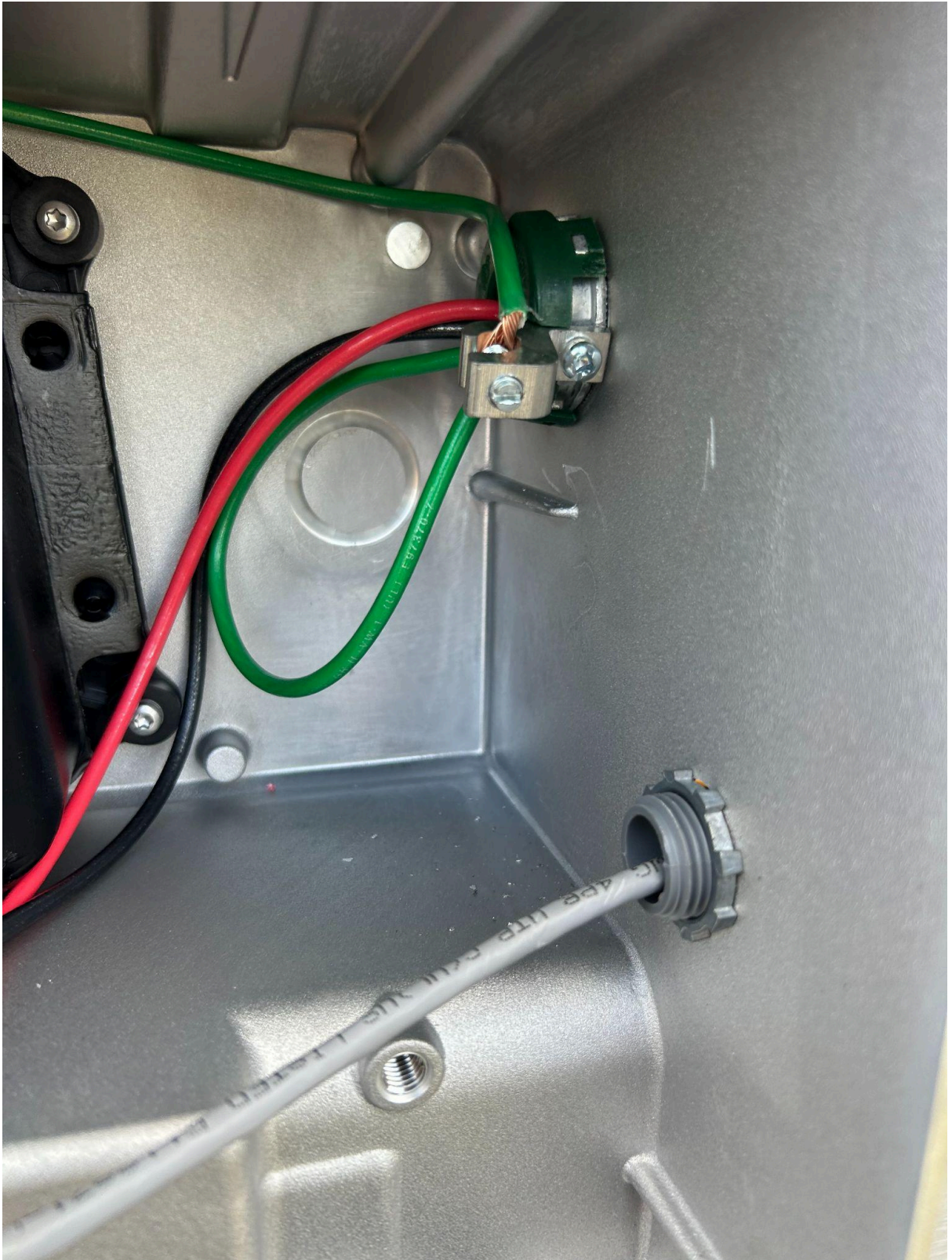


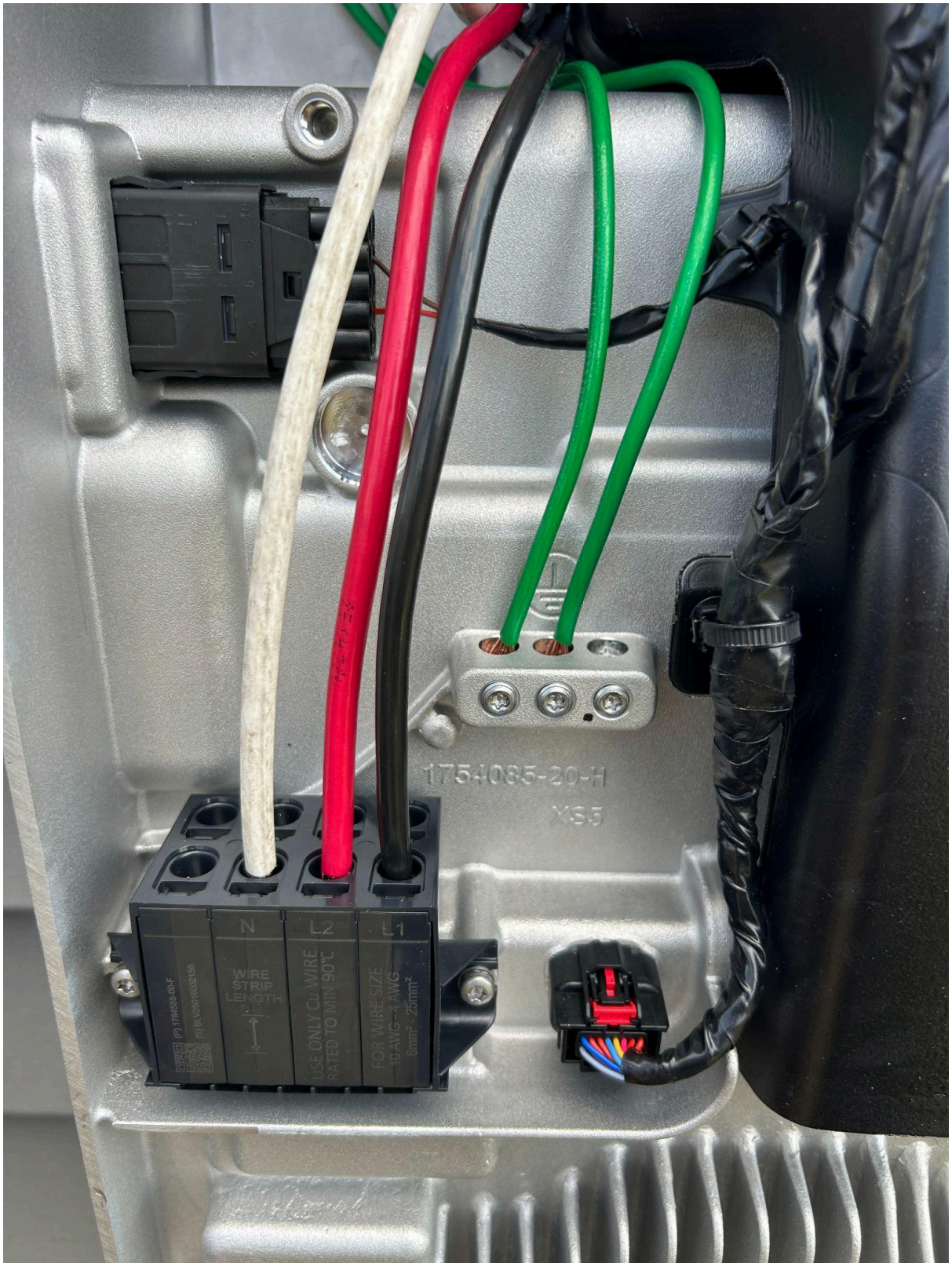




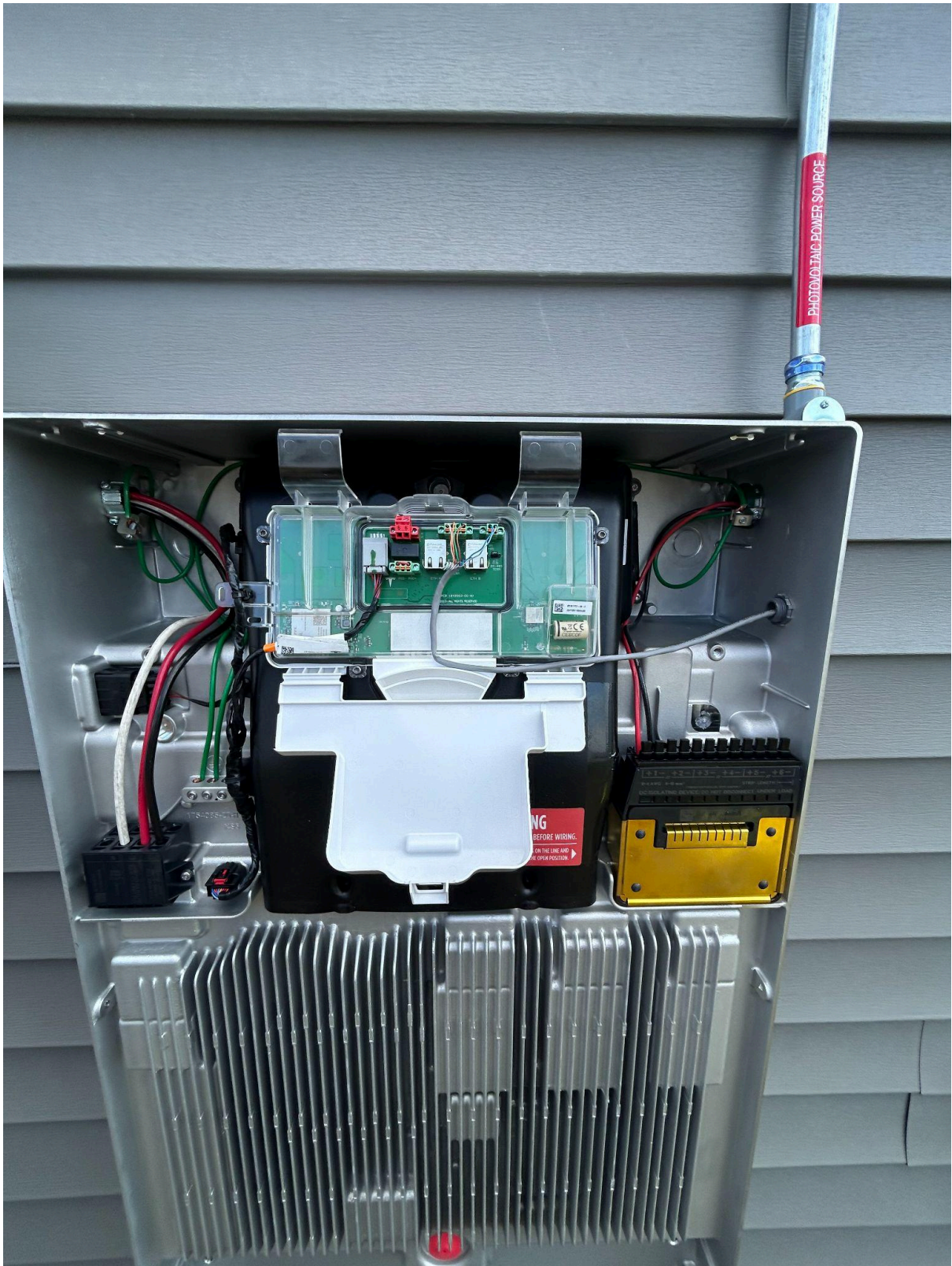


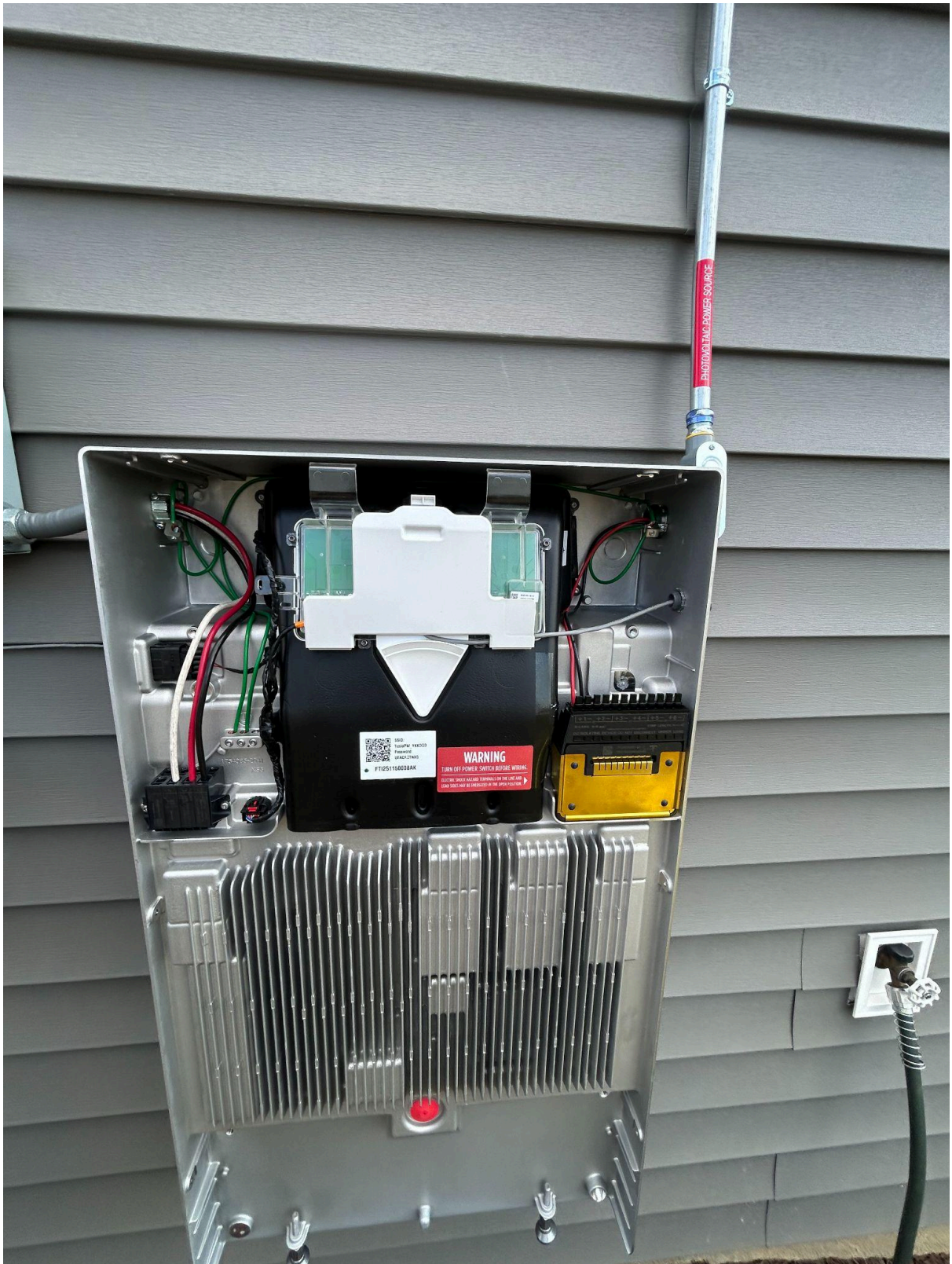












MAX DC VOLTAGE OF PV SYSTEM: _____ V

**TESLA POWERWALL ENERGY
STORAGE SYSTEM GRID
SUPPORT UTILITY INTERACTIVE
& STANDALONE INVERTER**



TESLA PART NO.
1707000-21-M
SN: TG125129001NKK

**BATTERY ENERGY STORAGE SYSTEM (BESS) &
PHOTOVOLTAIC (PV) POWER CONVERSION EQUIPMENT**

NOMINAL BATTERY ENERGY	13.5 kWh	BESS INVERTER TOPOLOGY	ISOLATED
BATTERY TYPE	LI-ION	OPERATING TEMPERATURE RANGE	-20°C TO 50°C
PROTECTIVE CLASS	CLASS 1	DE-RATED TEMPERATURE RANGE	40°C TO 50°C
ENCLOSURE TYPE	TYPE 3R	MASS	130 kg
PV INVERTER TOPOLOGY	NON-ISOLATED		

BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) SPECIFICATIONS

NOMINAL GRID VOLTAGE INPUT & OUTPUT	240 V (AC)	BESS MAX CONTINUOUS INPUT CURRENT, POWER	
GRID VOLTAGE RANGE	211 V-264 V (AC)	POWERWALL 3 ONLY	20.8 A (AC) (5 kVA)
PHASE	2W1N+PE	POWERWALL 3 + EXPANSION	33.3 A (AC) (8 kVA)
FREQUENCY	60 Hz	POWER FACTOR	-1 TO +1
MAX SHORT-CIRCUIT CURRENT RATING	10 kA (AC)	PV OPERATING DC INPUT VOLTAGE RANGE	60 - 550 V (DC)
MAX CONTINUOUS OUTPUT CURRENT (AC) (POWER AT 240V)	☐ 24 A (AC) (5.8 kVA) ☐ 32 A (AC) (7.6 kVA) ☐ 42 A (AC) (10 kVA) ☐ 48 A (AC) (11.5 kVA)	PV OPERATING DC MPPT VOLTAGE RANGE	60 - 480 V (DC)
MAX CONTINUOUS OUTPUT CURRENT OFF-GRID (PV ONLY, -20°C TO 25°C)	☐ 64 A (AC) (15.4 kVA)	PV MAX SYSTEM VOLTAGE	600 V (DC)
		PV MAX INPUT CURRENT	15 A (DC)
		PV DC ARC FAULT PROTECTION	TYPE 1



CONFORMS TO UL STD 9540, UL STD 1741, UL STD 1973, UL STD 1699B,
CSA C22.2 No. 107.1, CSA C22.2 No. 330, CSA C22.2 No. 9.292

CONTAINS FCC ID: 2AEIM-WL18DBMOD, XMR2020BGS5M2
CONTAINS IC: 20068-WL18DBMOD, 1022AA-2020BGS5M2

GRID SUPPORT INTERACTIVE INVERTER: CSA C22.2 No. 9 - SUPPLEMENTAL
PHOTOVOLTAIC DC ARC FAULT DETECTOR PROTECTION

SUITABLE FOR SERIES AND PARALLEL ARCING FAULT PROTECTION
THE MAXIMUM OPERATING CURRENT OF THIS SYSTEM MAY BE CONTROLLED ELECTRONICALLY. REFER TO
THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

PHOTOVOLTAIC (PV) RAPID SHUTDOWN SYSTEM EQUIPMENT RS2
ONLY THE INDICATED TERMINALS OF THIS PRODUCT COMPLY WITH PV RAPID SHUTDOWN REQUIREMENTS
FOR CONTROLLED CONDUCTORS OUTSIDE THE ARRAY. PV/RS2 CONTROLLED CONDUCTOR CONNECTION
PORT. REFER TO INSTRUCTIONS FOR CONDITIONS OF USE.

CAUTION: RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS
INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. BOTH AC AND DC VOLTAGE SOURCES
ARE TERMINATED INSIDE THIS EQUIPMENT. EACH CIRCUIT MUST BE INDIVIDUALLY DISCONNECTED
BEFORE SERVICING. WHEN THE PV ARRAY IS EXPOSED TO LIGHT IT SUPPLIES A DC VOLTAGE TO THIS
EQUIPMENT.

WARNING: ELECTRIC SHOCK HAZARD. THE DC CONDUCTORS OF THIS PV SYSTEM ARE
NORMALLY UNGROUNDED BUT WILL BECOME INTERMITTENTLY GROUNDED WITHOUT INDICATION WHEN
THE INVERTER MEASURES THE PV ARRAY ISOLATION ENERGY STORED IN CAPACITOR. DO NOT REMOVE
COVER UNTIL 5 MINUTES AFTER DISCONNECTING THE EQUIPMENT. POWER FED FROM MORE THAN ONE
SOURCE. DISCONNECT ALL SOURCES OF SUPPLY BEFORE SERVICING.

ATTENTION: DES SOURCES D'ALIMENTATION C.A. ET C.C. SONT BRANCHÉES DANS CET
ÉQUIPEMENT AVANT L'ENTRETIEN. CHAQUE CIRCUIT DOIT ÊTRE DÉCONNECTÉ LORSQUE LE CHAMP DE
MODULES PHOTOVOLTAÏQUES EST EXPOSÉ À DE LA LUMIÈRE. IL FOURNIT UNE TENSION CONTINUE À CET
ÉQUIPEMENT.

AVERTISSEMENT: RISQUES D'ÉLECTROCUTION. NE PAS RETIRER LE COUVERCLE
ÉLECTRIQUE. LES CONDUCTEURS DE TENSION CONTINUE DE CE SYSTÈME PHOTOVOLTAÏQUE SONT
NORMALEMENT NON MIS À LA TERRE, MAIS ILS DEVIENDRAIENT PAR MOMENT MIS À LA TERRE. SANS
AVERTISSEMENT, LORSQUE L'ON OUVRE LA COUVERCLE, L'ISOLATION DU CHAMP DE MODULES
PHOTOVOLTAÏQUES ÉNERGIE STOCKÉE DANS LE CONDENSATEUR. ATTENDEZ AU MOINS 5 MINUTES APRÈS
AVOIR DÉCONNECTÉ L'ÉQUIPEMENT AVANT DE RETIRER LE COUVERCLE. ALIMENTATION PROVENANT DE
PLUSIEURS SOURCES DÉCONNECTEZ DE TOUTES LES SOURCES DE COURANT AVANT DE PROCÉDER À
L'ENTRETIEN.

TESLA
COUNTRY OF ORIGIN: US

TESLA, INC.
550 MILAN DR
SPARKS, NV 89437, USA

TEL: 1(877)798-3752
WWW.TESLA.COM

**RAPID SHUTDOWN
SWITCH FOR
SOLAR PV SYSTEM ▶**

PV SYSTEM DISCONNECT (DC) INSIDE

ON

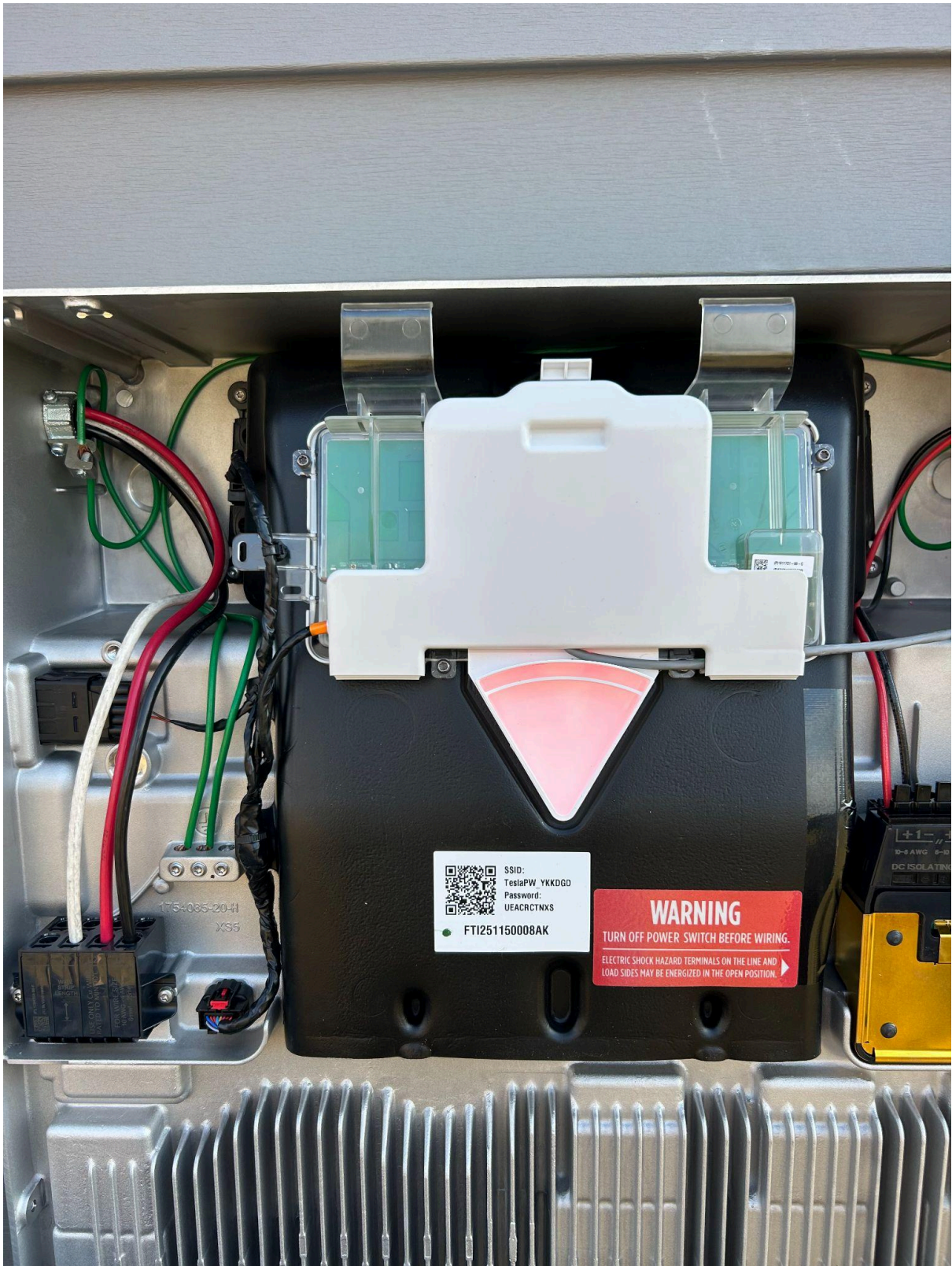
OFF

MAX DC VOLTAGE OF PV SYSTEM: _____ V

**TESLA POWERWALL ENERGY
STORAGE SYSTEM GRID
SUPPORT UTILITY INTERACTIVE
& STANDALONE INVERTER**

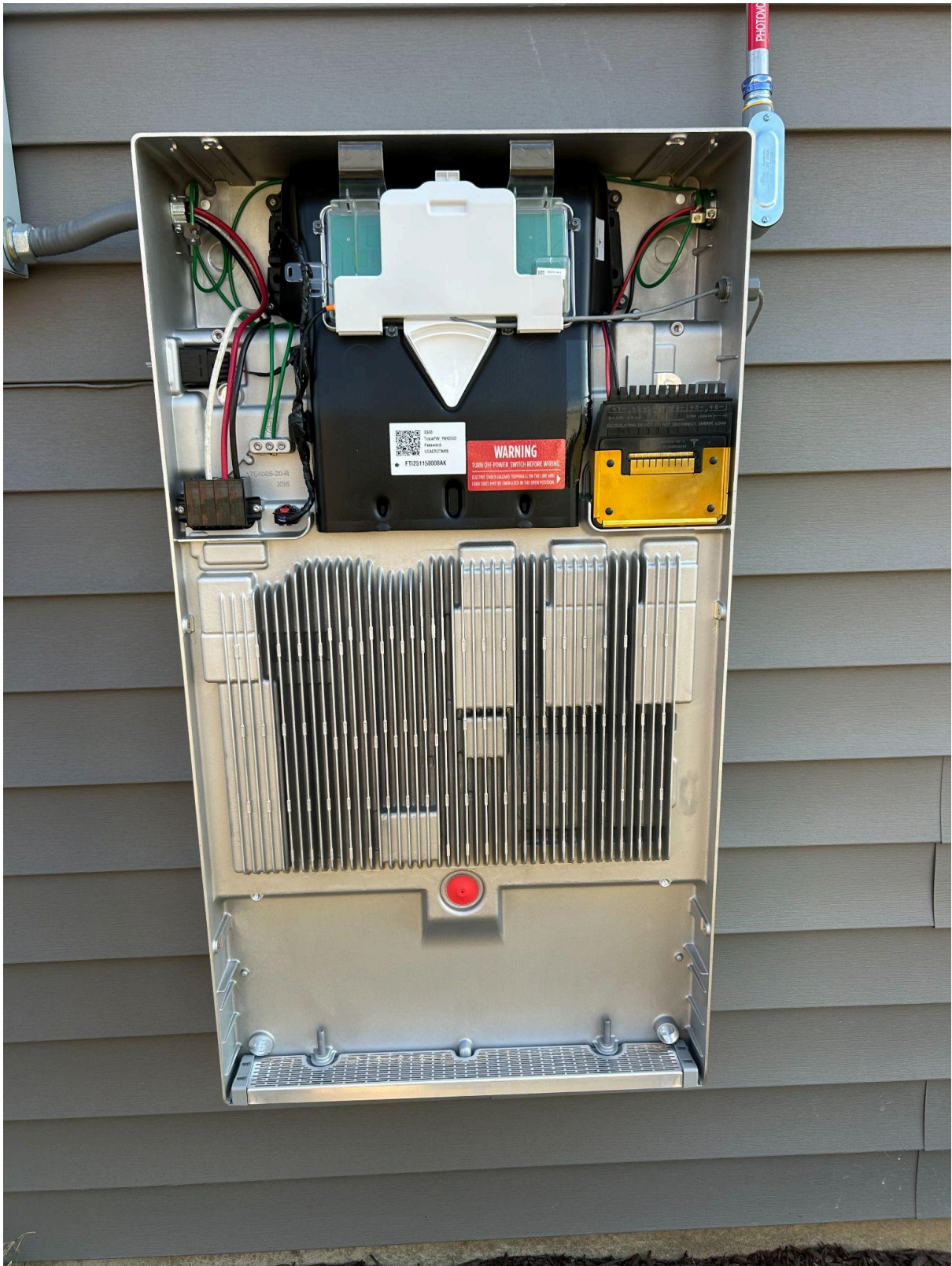
TESLA PART NO.
17870000-21-M
SN: TQ125129001NKK

BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) POWER CONVERSION EQUIPMENT			
NOMINAL BATTERY ENERGY		BESS INVERTER TOPCOLOGY	
BATTERY TYPE	13.5 kWh	OPERATING TEMPERATURE RANGE	ISOLATED
PROTECTIVE CLASS	UL954	STORAGE TEMPERATURE RANGE	-20°C TO 60°C
ENCLOSURE TYPE	CLASS II	STORAGE TEMPERATURE RANGE	40°C TO 90°C
PV INVERTER TOPCOLOGY	TYPE 3N	MASS	130 kg
BATTERY ENERGY STORAGE SYSTEM (BESS) & PHOTOVOLTAIC (PV) SPECIFICATIONS			
NOMINAL GRID VOLTAGE INPUT & OUTPUT		BESS MAX CONTINUOUS INPUT CURRENT: POWER	
GRID VOLTAGE RANGE	240 V (AC)	POWERWALL 3 ONLY	20.8 A (AC) @ 8 VA
PHASE	211 V-284 V (AC)	POWERWALL 3 + EXPANSION	23.3 A (AC) @ 8 VA
FREQUENCY	20-60 Hz	POWER FACTOR	1.0
MAX SHORT CIRCUIT CURRENT (RATING)	100 A (AC)		
MAX CONTINUOUS OUTPUT CURRENT (AC)	100 A (AC)		
POWER AT 280V	28 kW (AC)		



SSID: TeslaPW YKKDD
Password: UEACRCTXS
FTI251150008AK

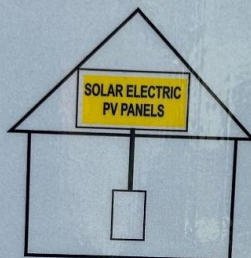
WARNING
TURN OFF POWER SWITCH BEFORE WIRING.
ELECTRIC SHOCK HAZARD TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.



SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY

596-03942



2

MAXIMUM VOLTAGE
MAXIMUM CIRCUIT CURRENT

600 V DC
17 A DC

MAX RATED OUTPUT CURRENT OF
THE CHARGE CONTROLLER
OR DC-TO-DC CONVERTER
(IF INSTALLED)

N/A

596-03942

3

⚠ WARNING

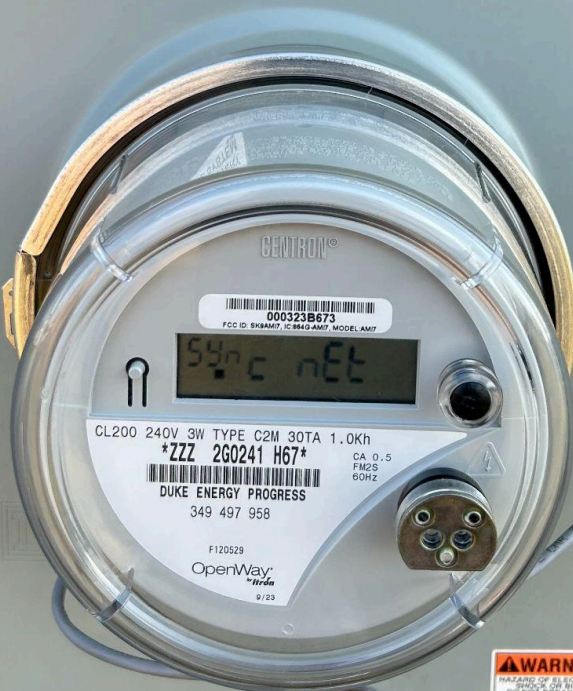
ELECTRICAL SHOCK HAZARD

TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

596-03942

1

⚠ WARNING
THREE POWER SOURCES
SOURCES: UTILITY GRID, BATTERY
AND PV SOLAR ELECTRIC SYSTEM



⚠ WARNING
HAZARD OF ELECTRICAL
SHOCK OR BURN
DO NOT REAR SEAL
DO NOT REMOVE
DO NOT REMOVE



WARNING
THREE POWER SOURCES
SOURCES: UTILITY GRID, BATTERY
AND PV SOLAR ELECTRIC SYSTEM

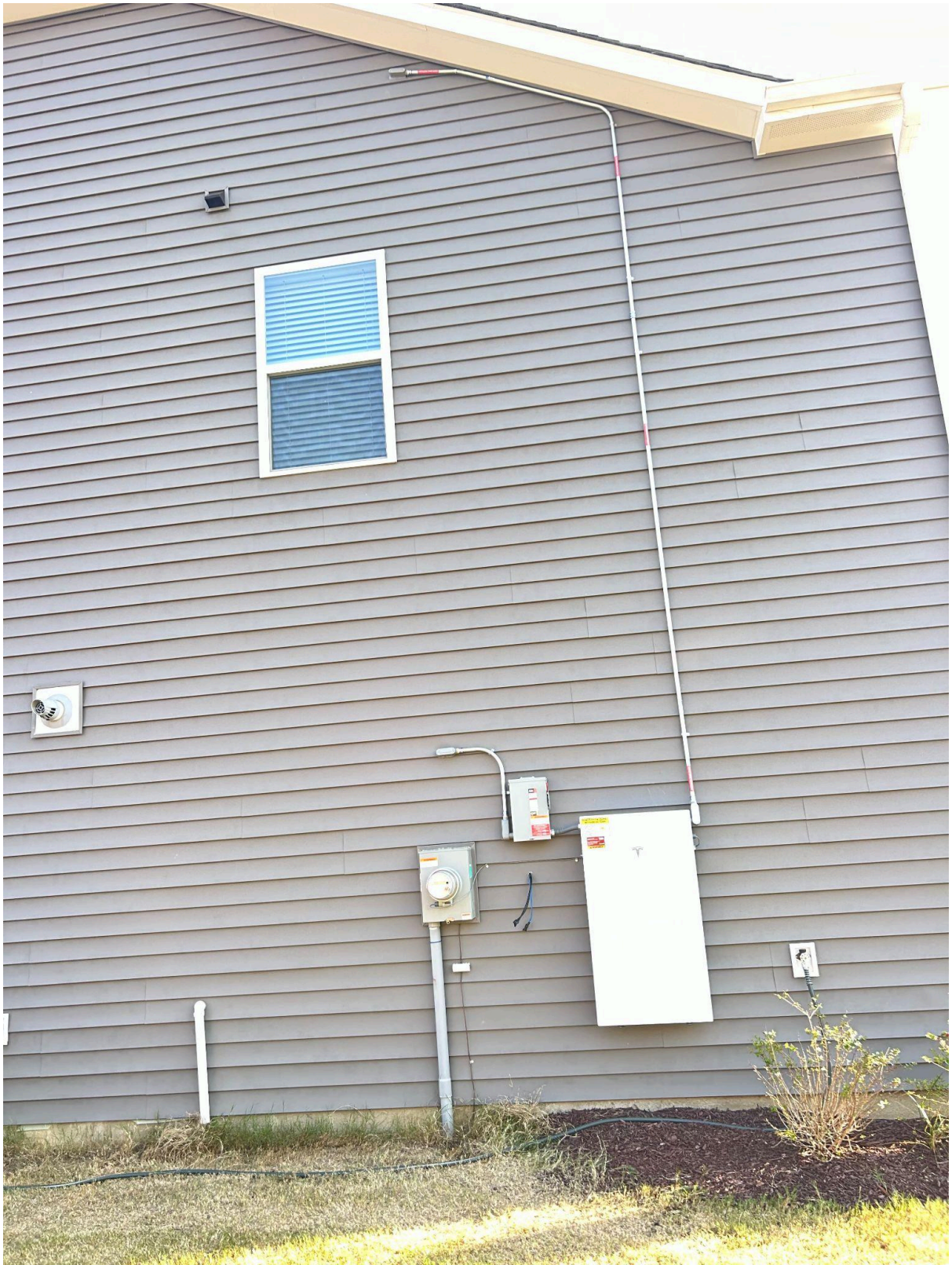
CL200 240V 3W TYPE C2M 30TA 1.0kWh
ZZZ 2G0241 H67
DUKE ENERGY PROGRESS
349 497 958

F120528
OpenWay
9/23

WARNING
HAZARD OF ELECTRICAL
SHOCK OR BURN
DO NOT OPEN SEAL
FOR SERVICE



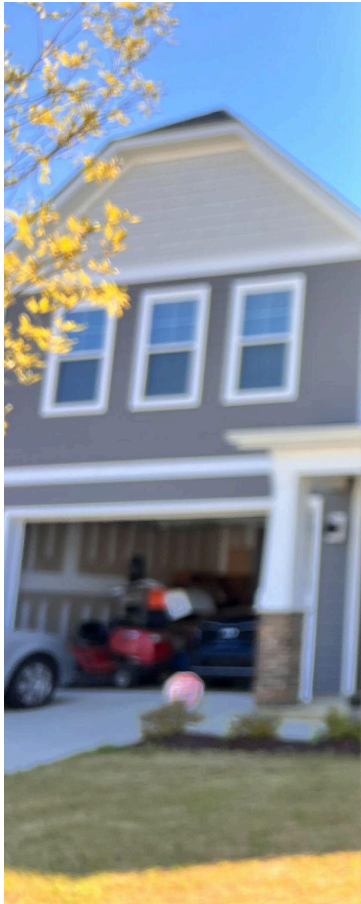
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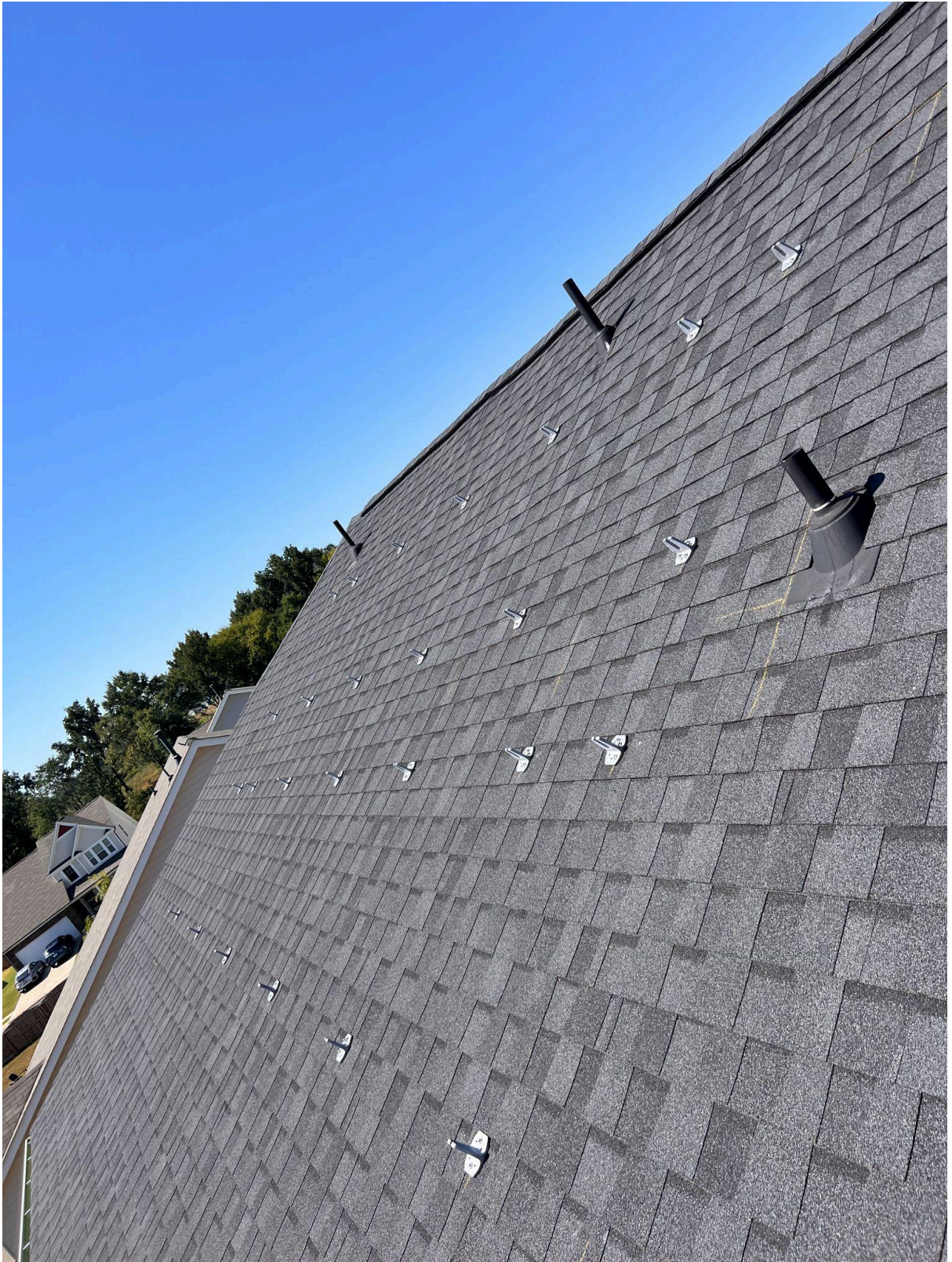




















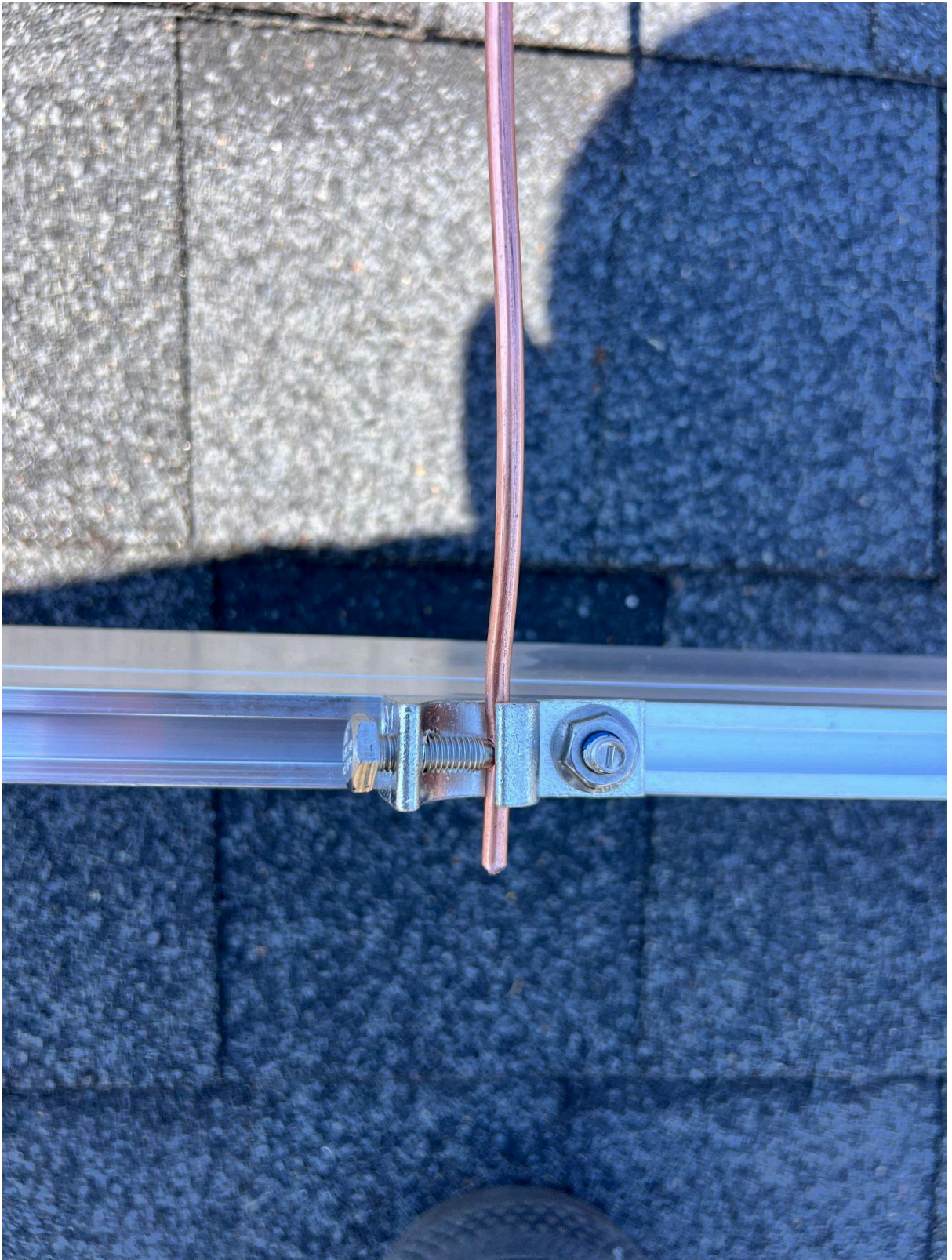












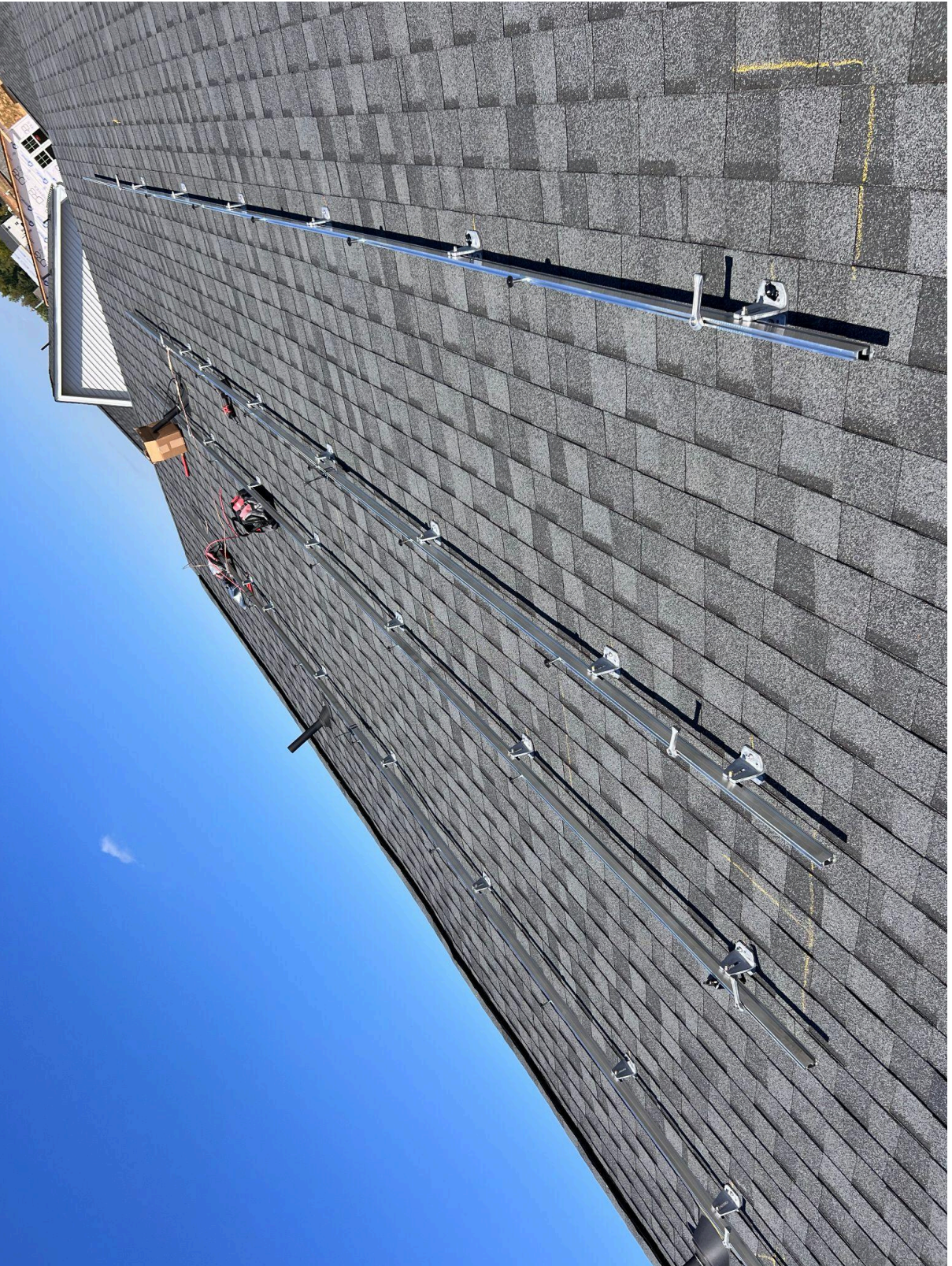
















SSID:

TeslaPW_YKKGDD

Password:

UEACRCTNXS

FTI251150008AK

TURN

ELECTRIC
LOAD SIGN







