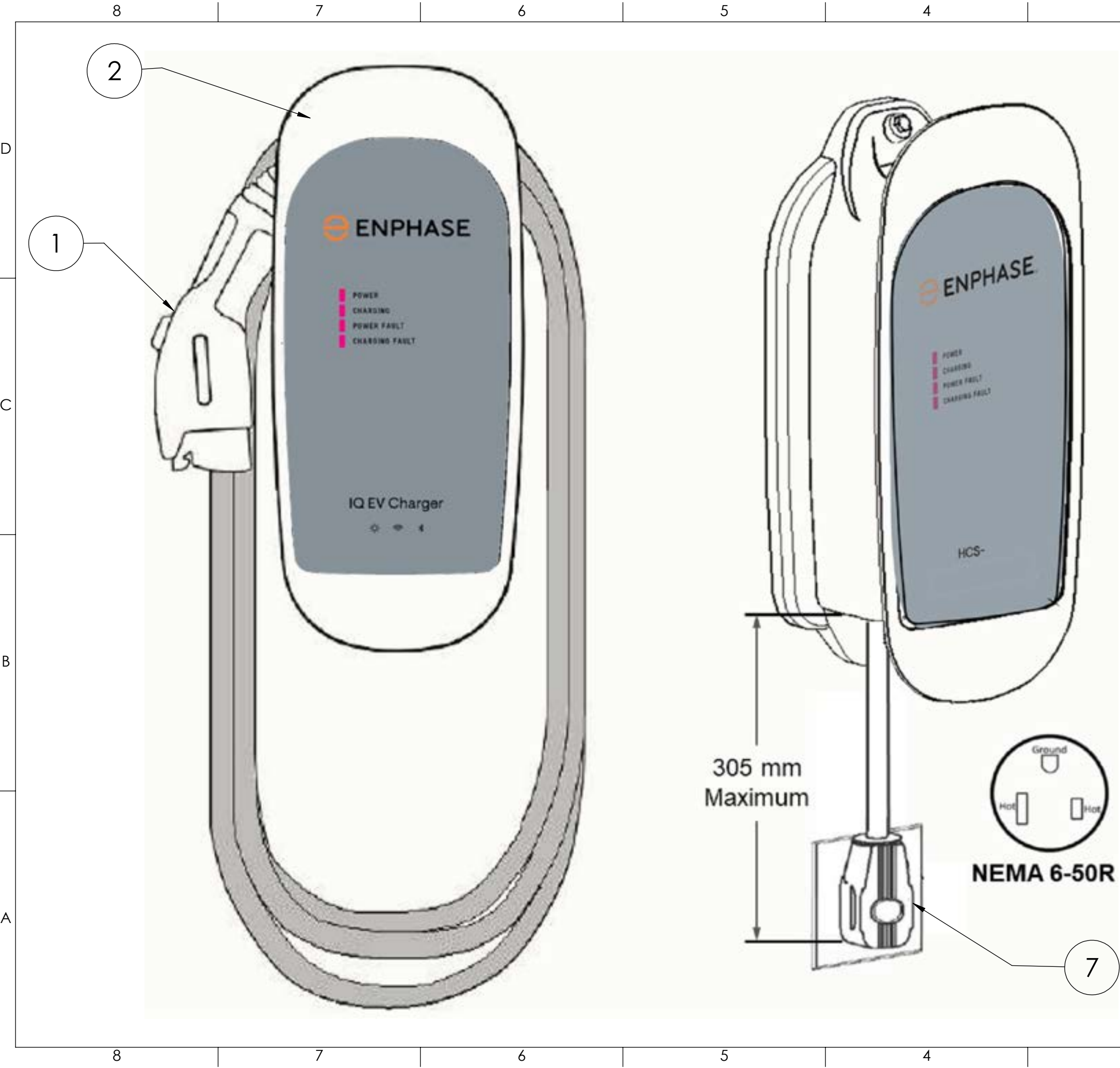




REVISIONS			
REV.	DESCRIPTION	CHECKED	DATE
01	ECO-006488 : INITIAL RELEASE	RAJIV	29SEP2022
02	ECO-006519 : ANTENNA AND LABEL UPDATED	RAJIV	20OCT2022
03	ECO-006576 : ANTENNA AND SURFACE PREPARATION DETAILS UPDATED	RAJIV	08NOV2022
04	ECO-006732 : FERRITE CORES ADDED. BOM UPDATED	RAJIV	04JAN2023
05	ECO-006774 : TIE WRAP ADDED. LABEL UPDATED. BOM UPDATED	RAJIV	17JAN2023

- NOTES:
1. REFER ARENA WHERE USED FOR ASSEMBLY PART NUMBERS.
 2. ALL PARTS TO BE CLEAN WITH NO FOREIGN MATTER PRESENT.
 3. ALL ITEMS SHALL BE ASSEMBLED PER STATED TORQUE VALUES AND SPECIFICATIONS. VALUES SHOULD BE MET WITH A TOLERANCE OF 10%.
 4. REFER TO MECH-MAP FOR ASSEMBLY INSTRUCTIONS.
 5. LABEL CONTAINS DMC CODE, SERIAL # AND PART #.
FOR PRINTING DMC CODE, SERIAL AND PART NUMBER TEXT DETAILS, REFER MECHMAP. THE DMC CODE SHALL HAVE AN ERROR CORRECTION OF REED SOLOMON ECC200. THE DATA INCLUDED IN THE DMC CODE CONTAINS THE PART # AND SERIAL #.
 6. FOR PRINTING WI-FI AND BLUETOOTH MAC ADDRESS TEXT DETAILS, REFER MECHMAP.
 7. THE LABELS SHOWN IN THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY.
 8. THE CAD IMAGES SHOWN IN THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY.

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TITLE

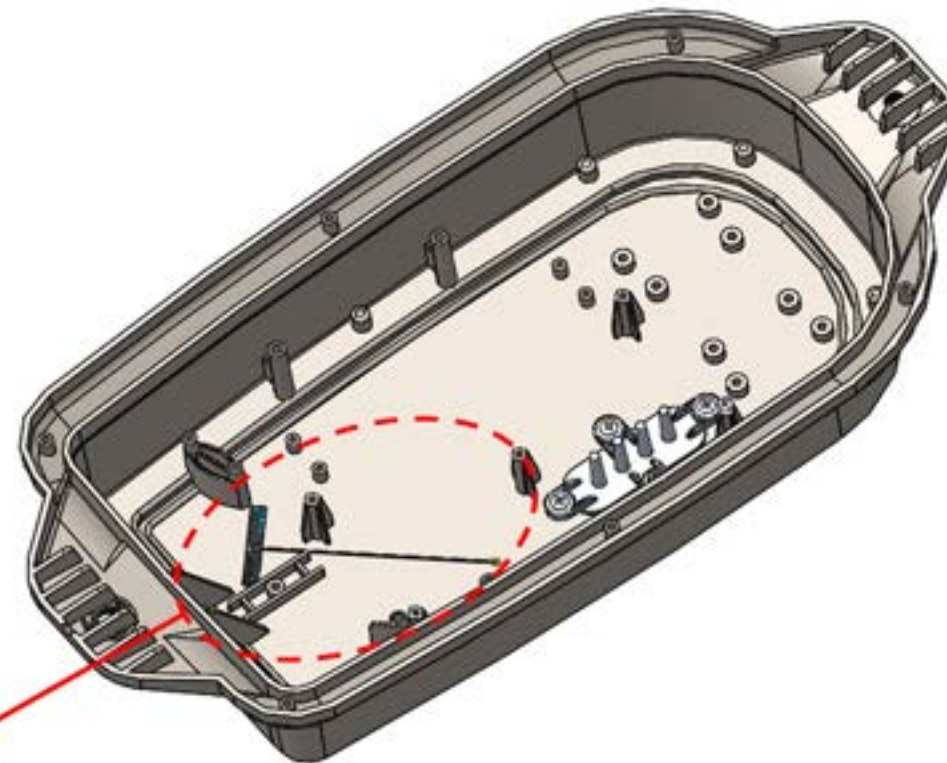
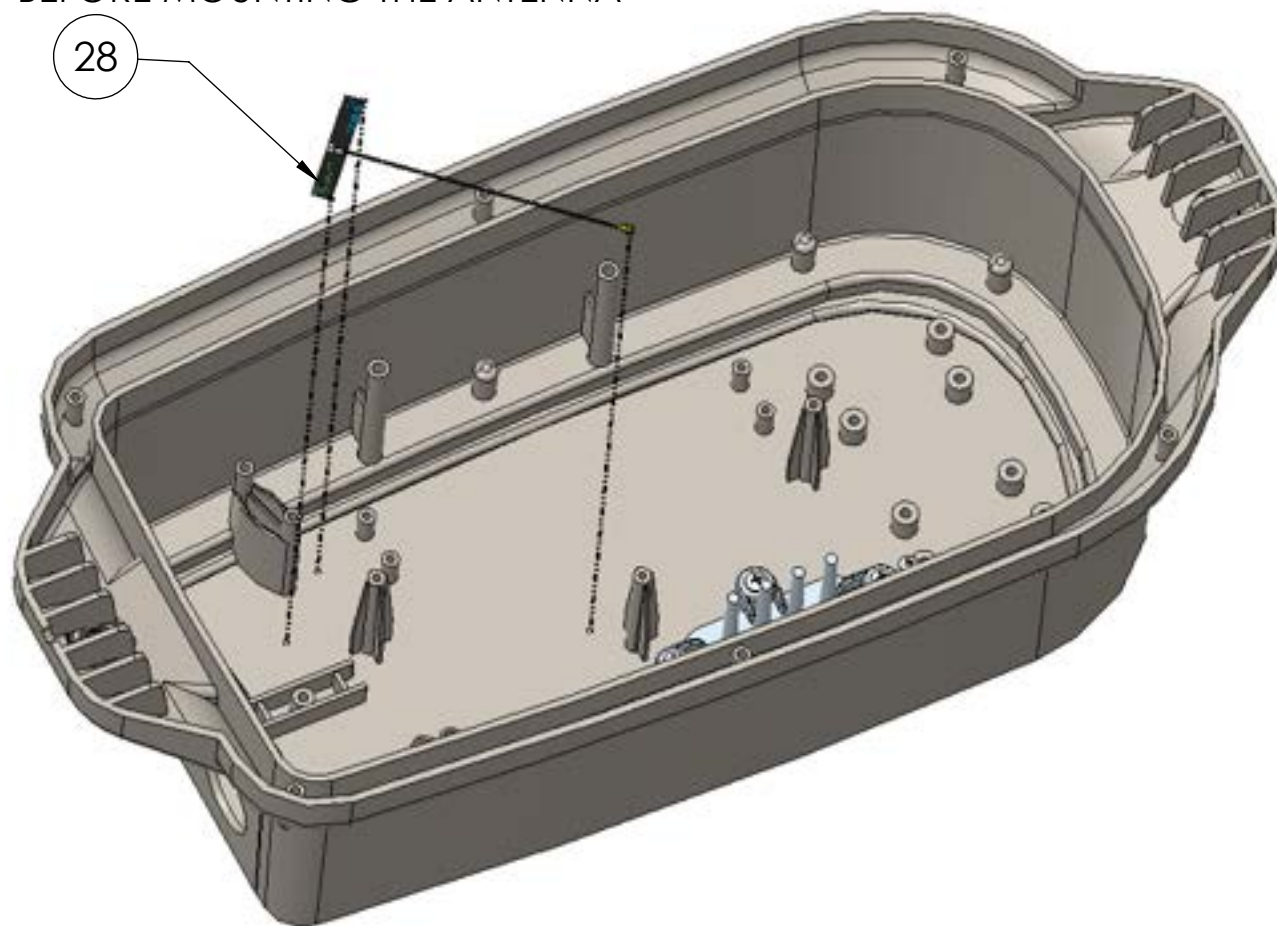
General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P

SHEET SIZE	DRAWN Arun	PART NUMBER	REV
A3	DATE 15SEP2022	940-02000	05
	REVIEWED Rajiv	SCALE	SHEET
	DATE 16SEP2022	NOT TO SCALE	1 of 20

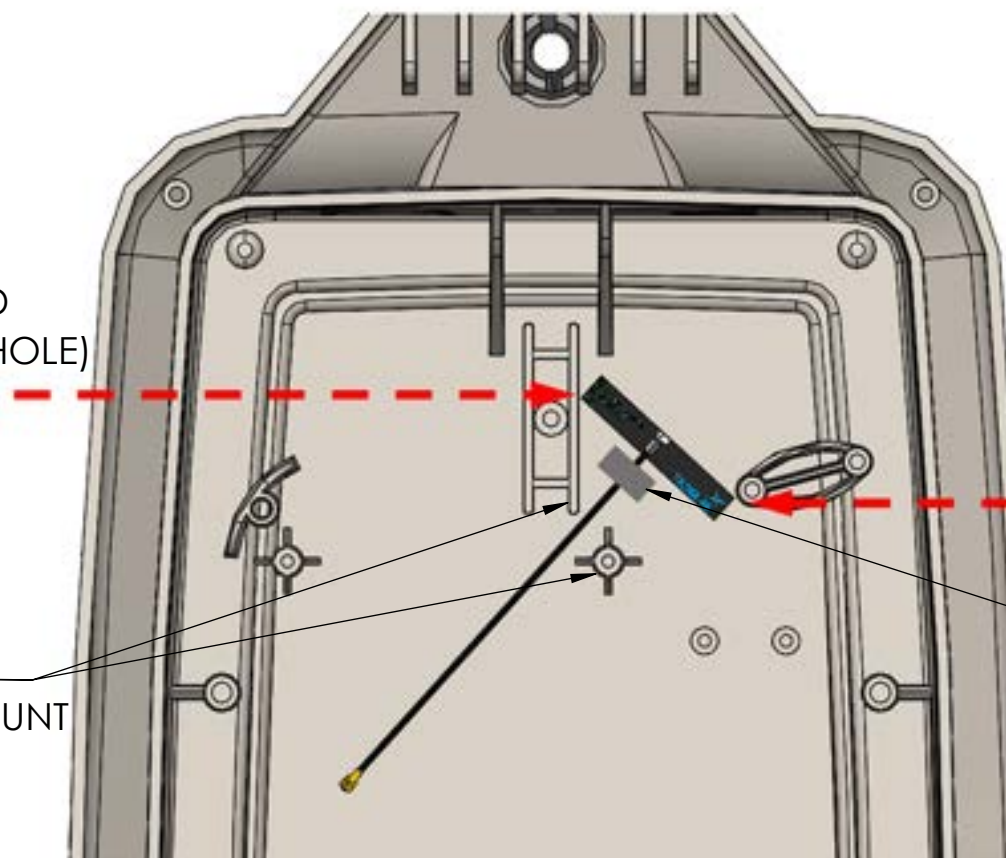
THIRD ANGLE PROJECTION

REFER PAGE 20 FOR SURFACE PREPARATION
BEFORE MOUNTING THE ANTENNA

28



REFERENCE FOR
ANTENNA MOUNTING
(ANTENNA PCB EDGE ALIGNED
TO THE GROUND BAR SCREW HOLE)



REFERENCE FOR ANTENNA MOUNTING
(ANTENNA PCB EDGE ALIGNED TO
THE CABLE CLAMP MOUNTING)

36

3M POLYIMIDE FILM TAPE 5413

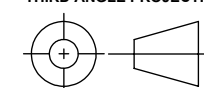
CUT TAPE FOR LENGTH OF 25mm
AND PASTE COAXIAL CABLE
ON PLASTIC HOUSING.
TAPE TO BE STICKED AS SHOWN.

GUIDE THE COAXIAL CABLE
BETWEEN THE GROUND BAR MOUNT
AND GEN1 PCB MOUNTING BOSS

ANTENNA TO BE PLACED ACCURATELY
IN POSITION USING A TEMPLATE

PROPRIETARY AND CONFIDENTIAL
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THIRD ANGLE PROJECTION



TITLE
General Assembly, IQ-EVSE-NA-40R,
NEMA 6-50P

SHEET
SIZE
A3

DRAWN
Arin
DATE
15SEP2022
REVIEWED
Rajiv
DATE
16SEP2022

PART NUMBER
940-02000

REV
05

SCALE
NOT TO SCALE

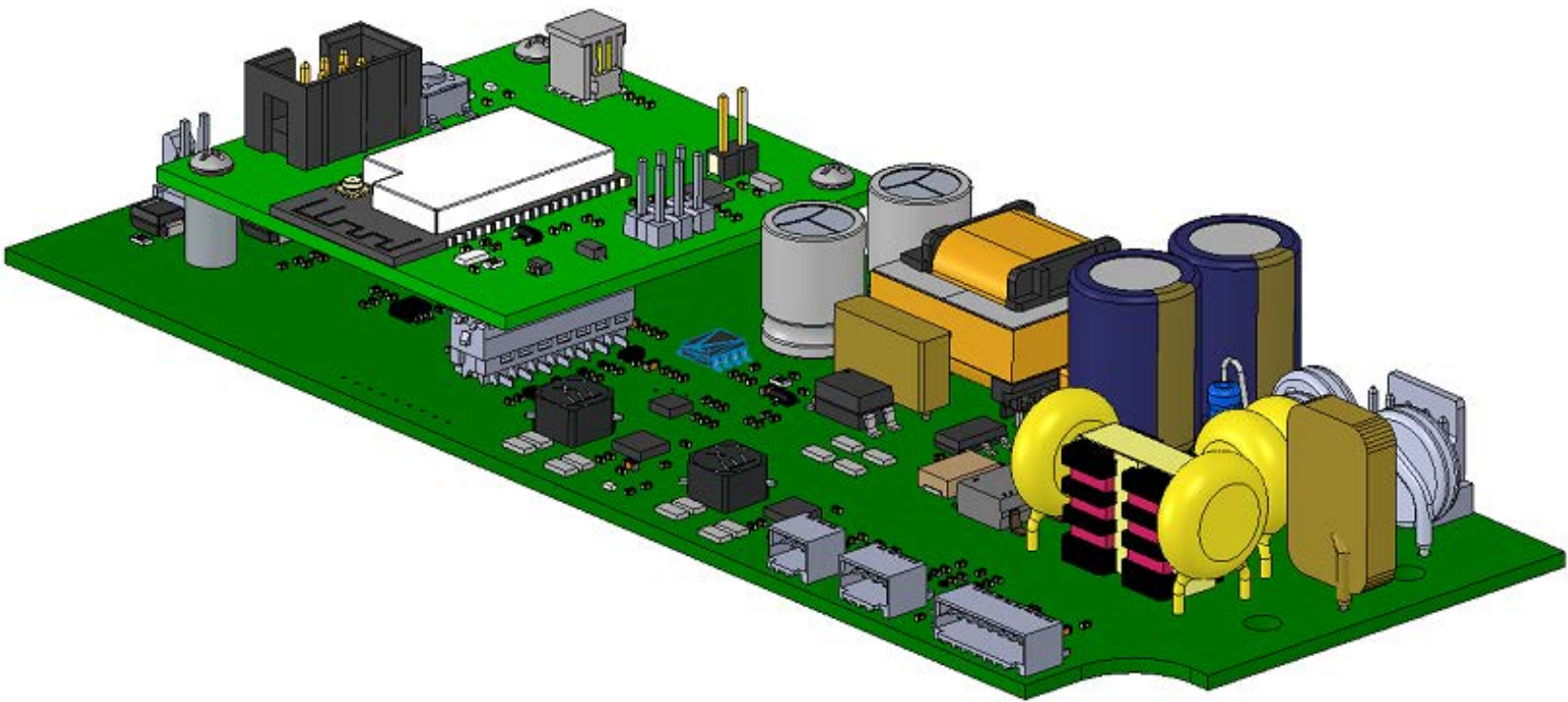
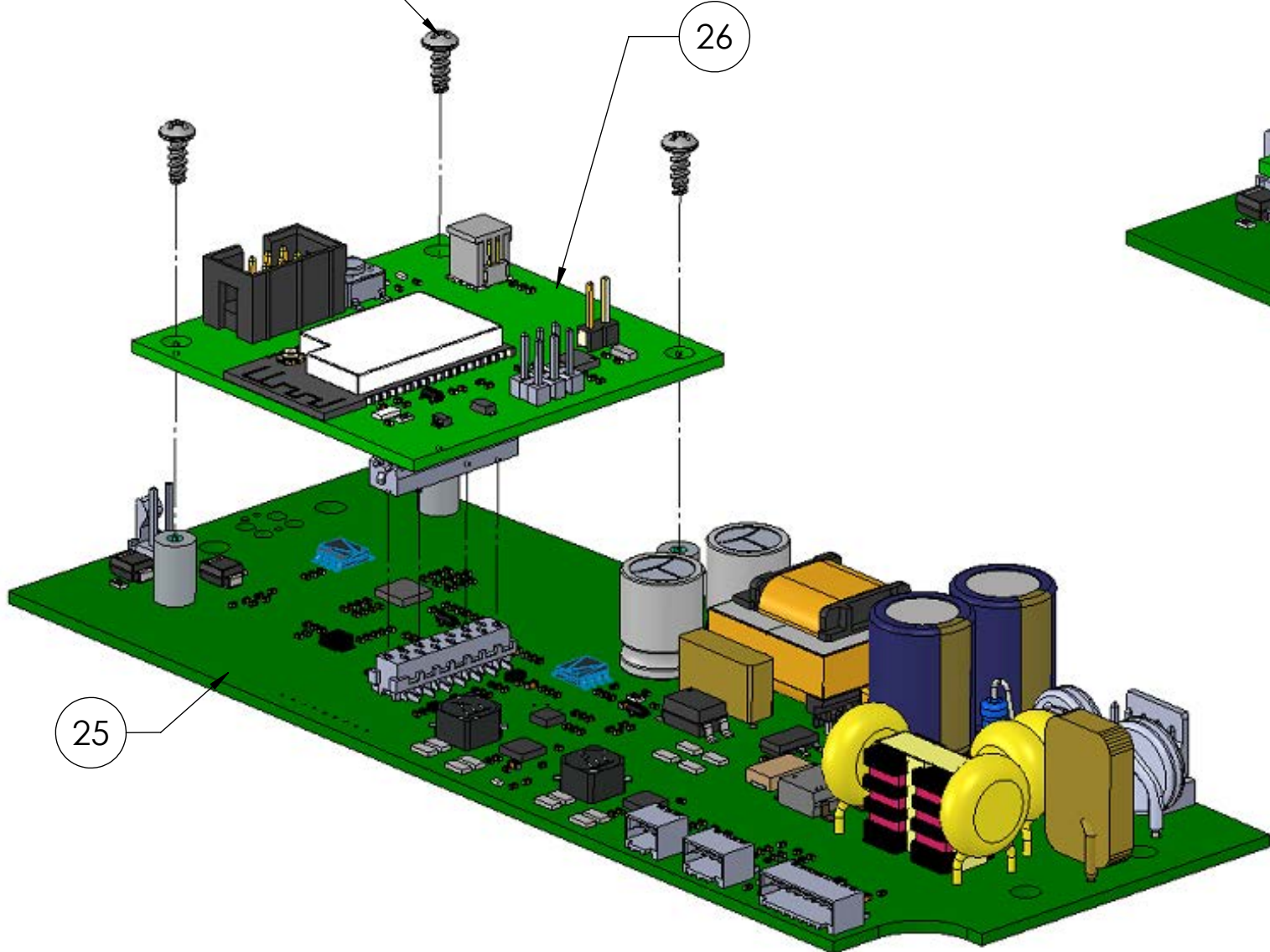
SHEET
2 of 20

Version

TORQUE TO 2.65 IN-LBS
WITH ELECTRIC SCREWDRIVER

3X (27)

(26)



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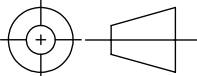


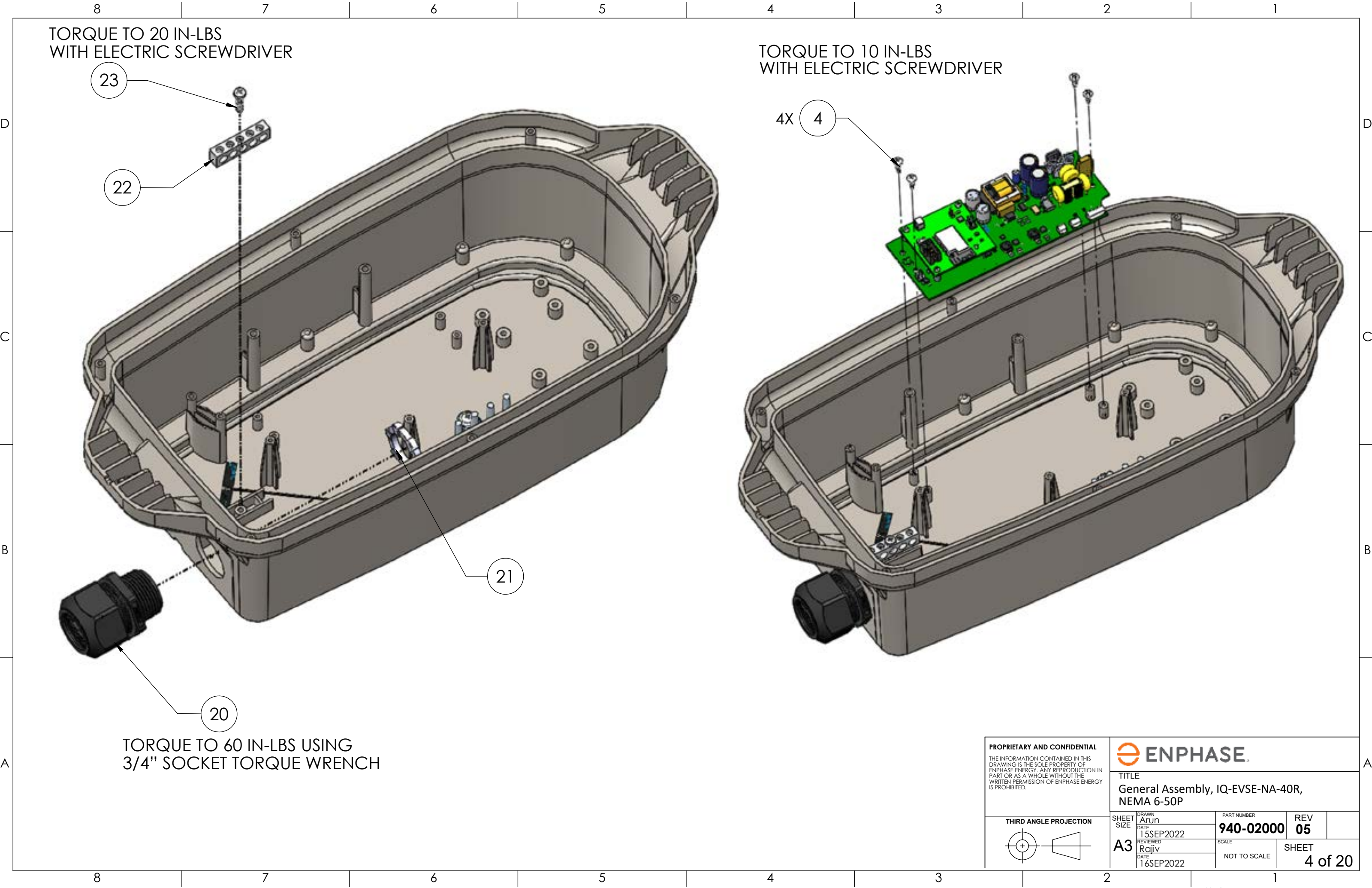
ENPHASE

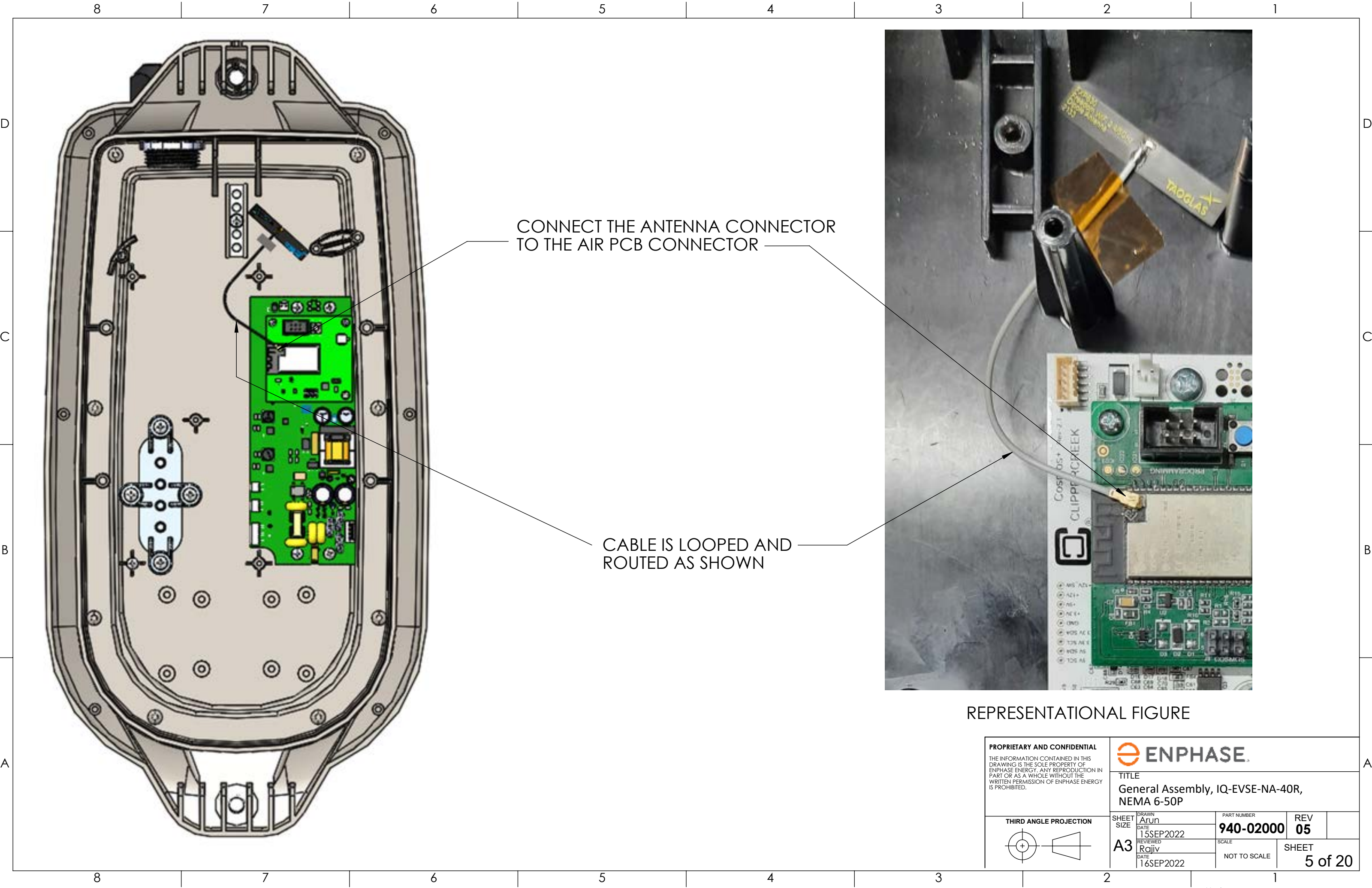
TITLE
General Assembly, IQ-EVSE-NA-40R,
NEMA 6-50P

SHEET SIZE A3	DRAWN Arun	PART NUMBER 940-02000	REV 05
	DATE 15SEP2022	SCALE NOT TO SCALE	SHEET 3 of 20
REVIEWED Rajiv		DATE 16SEP2022	

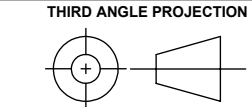
THIRD ANGLE PROJECTION

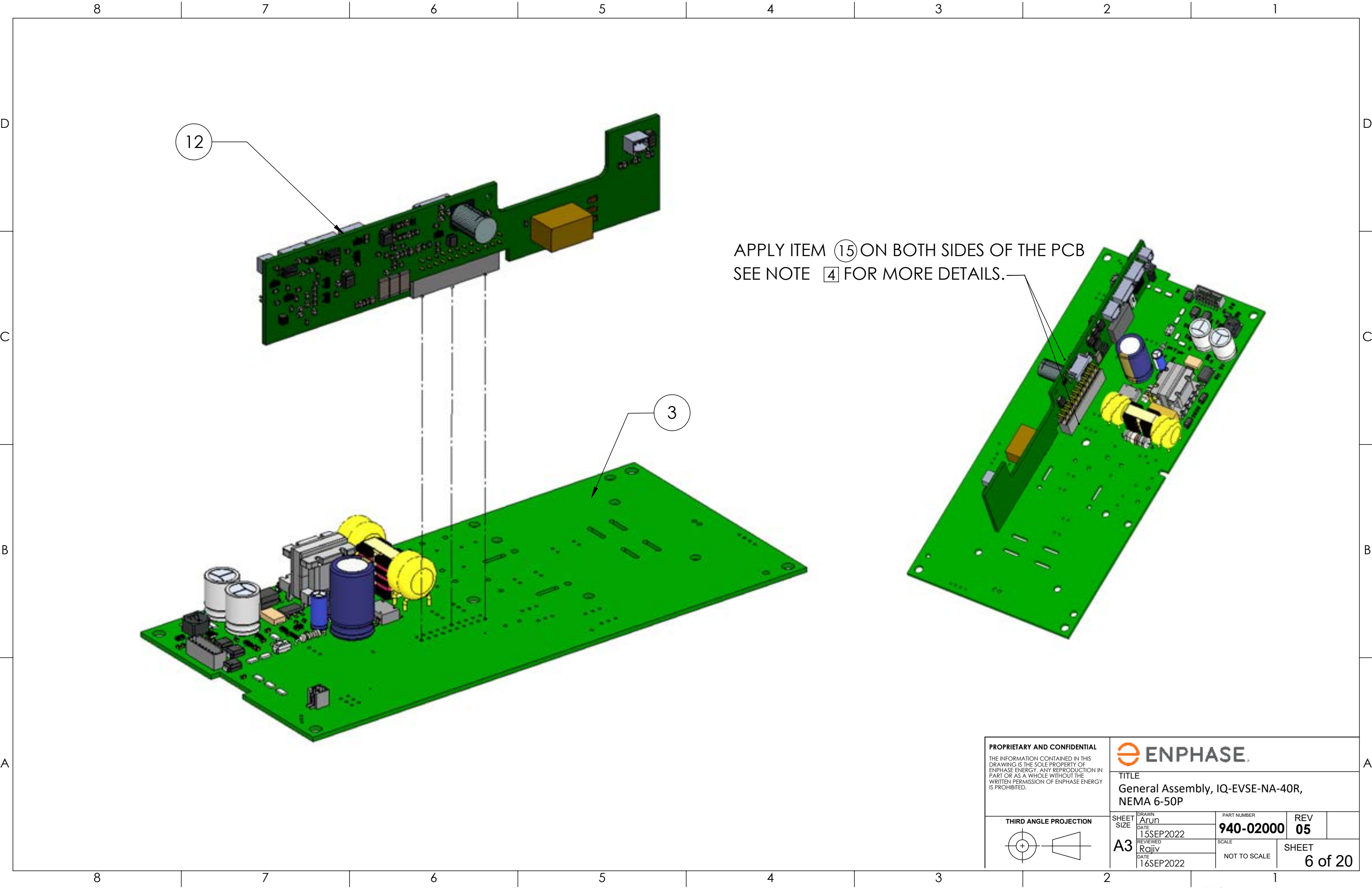




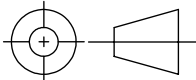


PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENPHASE ENERGY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENPHASE ENERGY IS PROHIBITED.							
				TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
SHEET SIZE A3	DRAWN Arun DATE 15SEP2022		PART NUMBER 940-02000		REV	SHEET 5 of 20	
	REVIEWED Rqjiv DATE 16SEP2022		SCALE NOT TO SCALE		05		



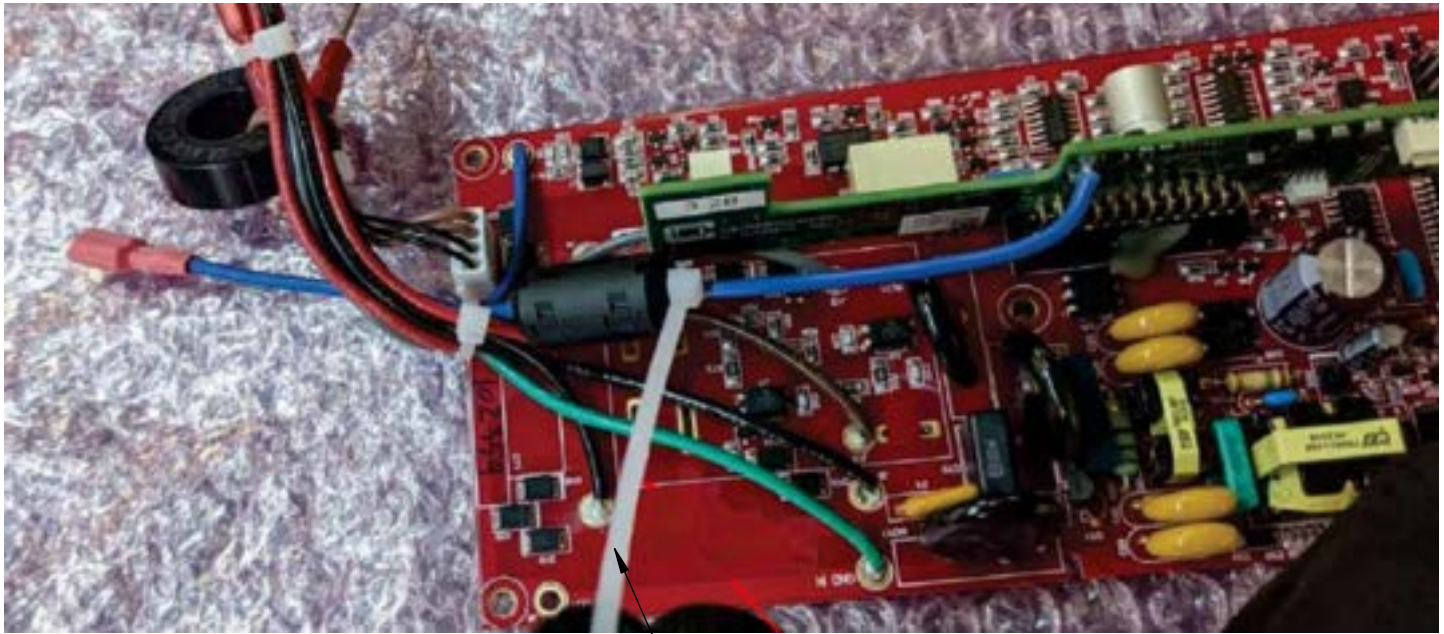


APPLY ITEM 15 ON BOTH SIDES OF THE PCB
SEE NOTE 4 FOR MORE DETAILS.

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		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
THIRD ANGLE PROJECTION 	SHEET SIZE	DRAWN Arun DATE 15SEP2022	PART NUMBER 940-02000	REV 05	
	A3	REVIEWED Rajiv DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 6 of 20	



16

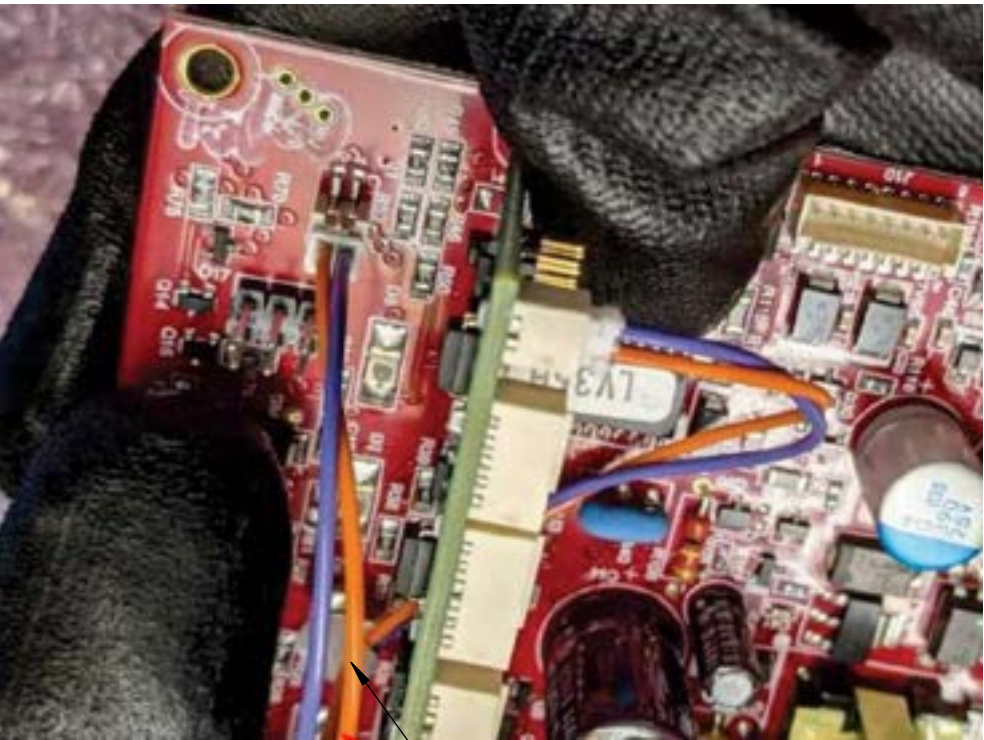


SECURE FERRITE FROM MOVING BY ATTACHING A TIE WRAP.

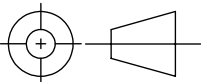


14

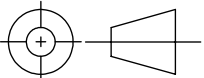
SEE NOTE 4 FOR MORE DETAILS.

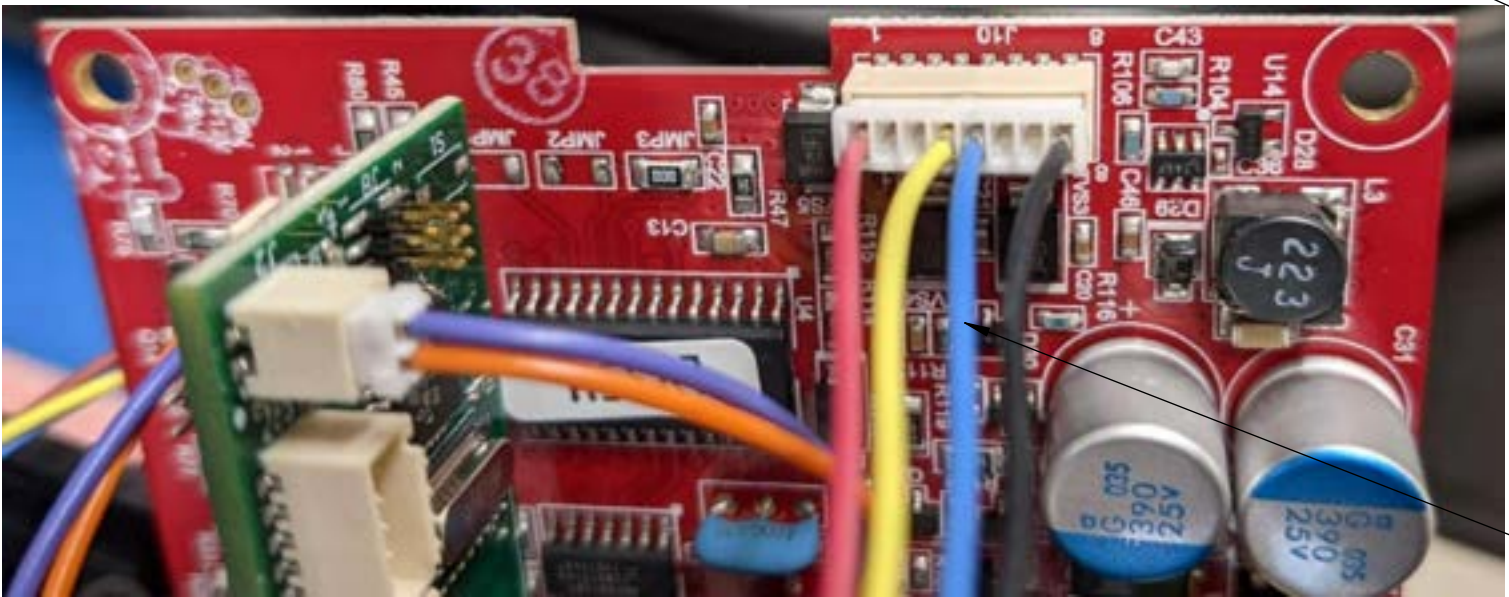
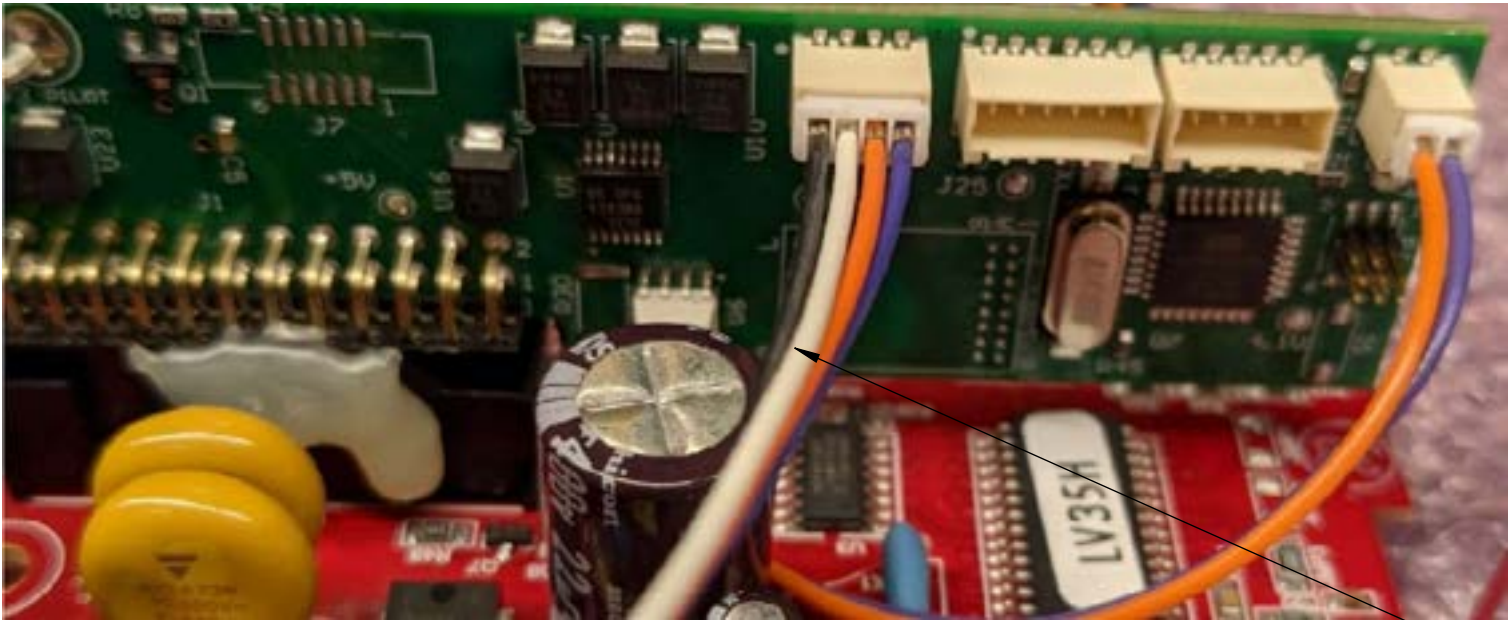


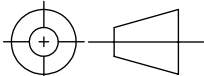
13

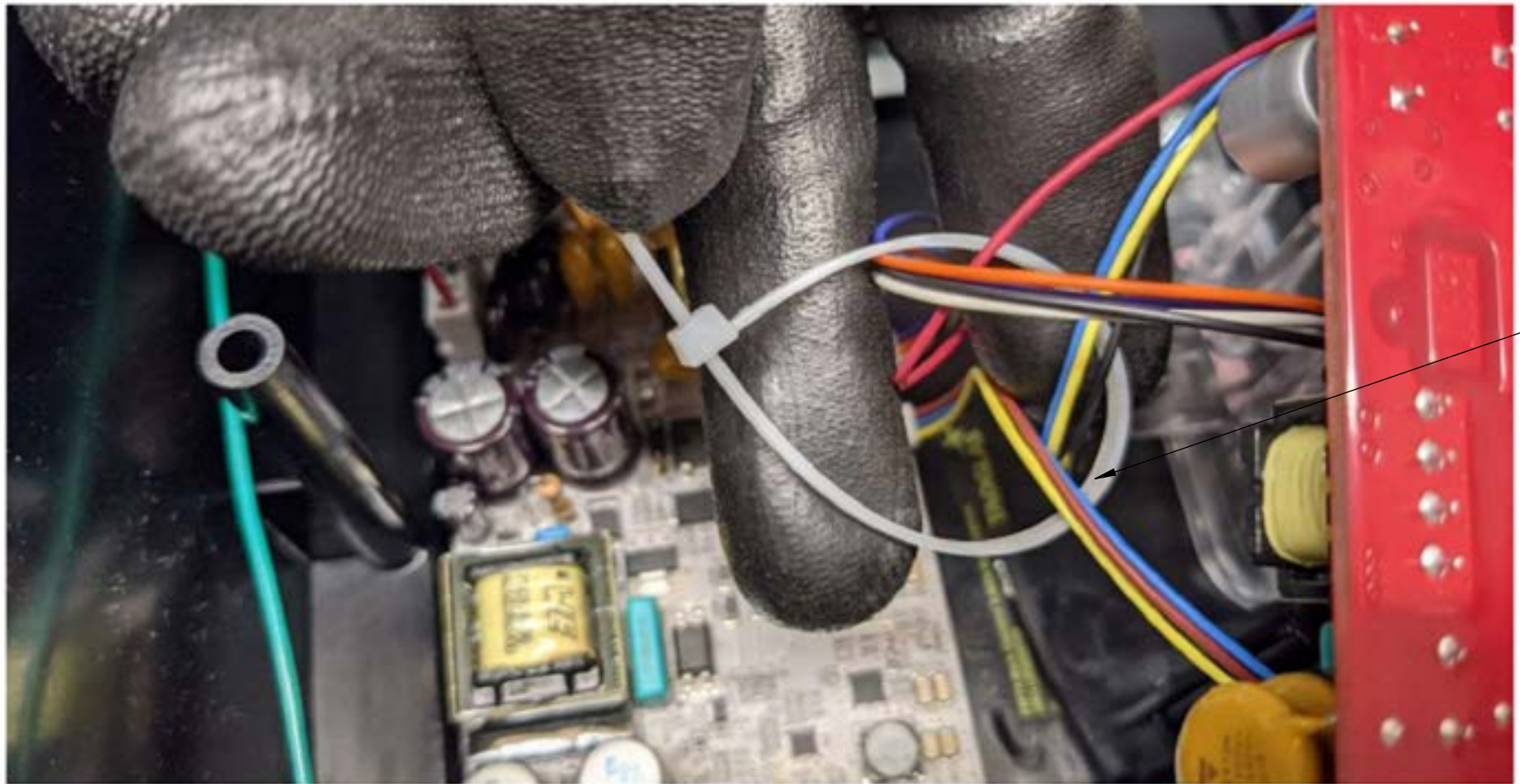
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENPHASE ENERGY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENPHASE ENERGY IS PROHIBITED.		 ENPHASE			
		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
THIRD ANGLE PROJECTION 	SHEET SIZE A3	DRAWN Arun	PART NUMBER	REV	
		DATE 15SEP2022	940-02000	05	
		REVIEWED Rajiv			
		DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 7 of 20	

THIRD ANGLE PROJECTION





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		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
THIRD ANGLE PROJECTION 	SHEET SIZE A3	DRAWN Arun	PART NUMBER	REV	
		DATE 15SEP2022	940-02000	05	
		REVIEWED Rajiv			
		DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 8 of 20	



16
SECURE THE CABLES BY
ATTACHING A TIE WRAP.



SECURE THE CABLES BY
ATTACHING A TIE WRAP.

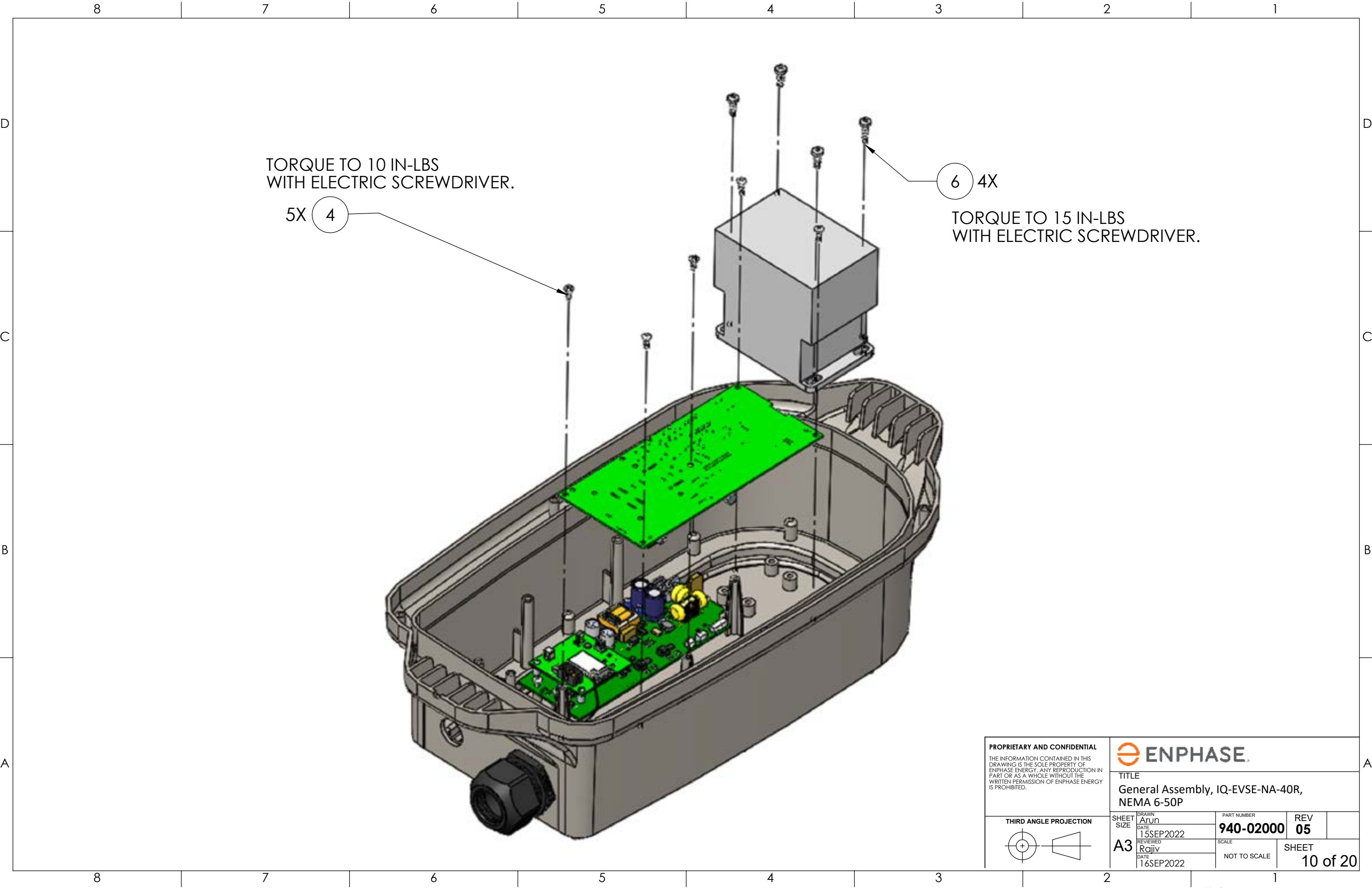
PROPRIETARY AND CONFIDENTIAL

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THIRD ANGLE PROJECTION

			
TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
SHEET SIZE A3	DRAWN Arun DATE 15SEP2022	PART NUMBER 940-02000	REV 05
	REVIEWED Rqjiv DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 9 of 20

Version



TORQUE TO 10 IN-LBS
WITH ELECTRIC SCREWDRIVER.

5X 4

6 4X

TORQUE TO 15 IN-LBS
WITH ELECTRIC SCREWDRIVER.

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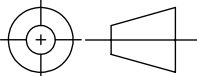
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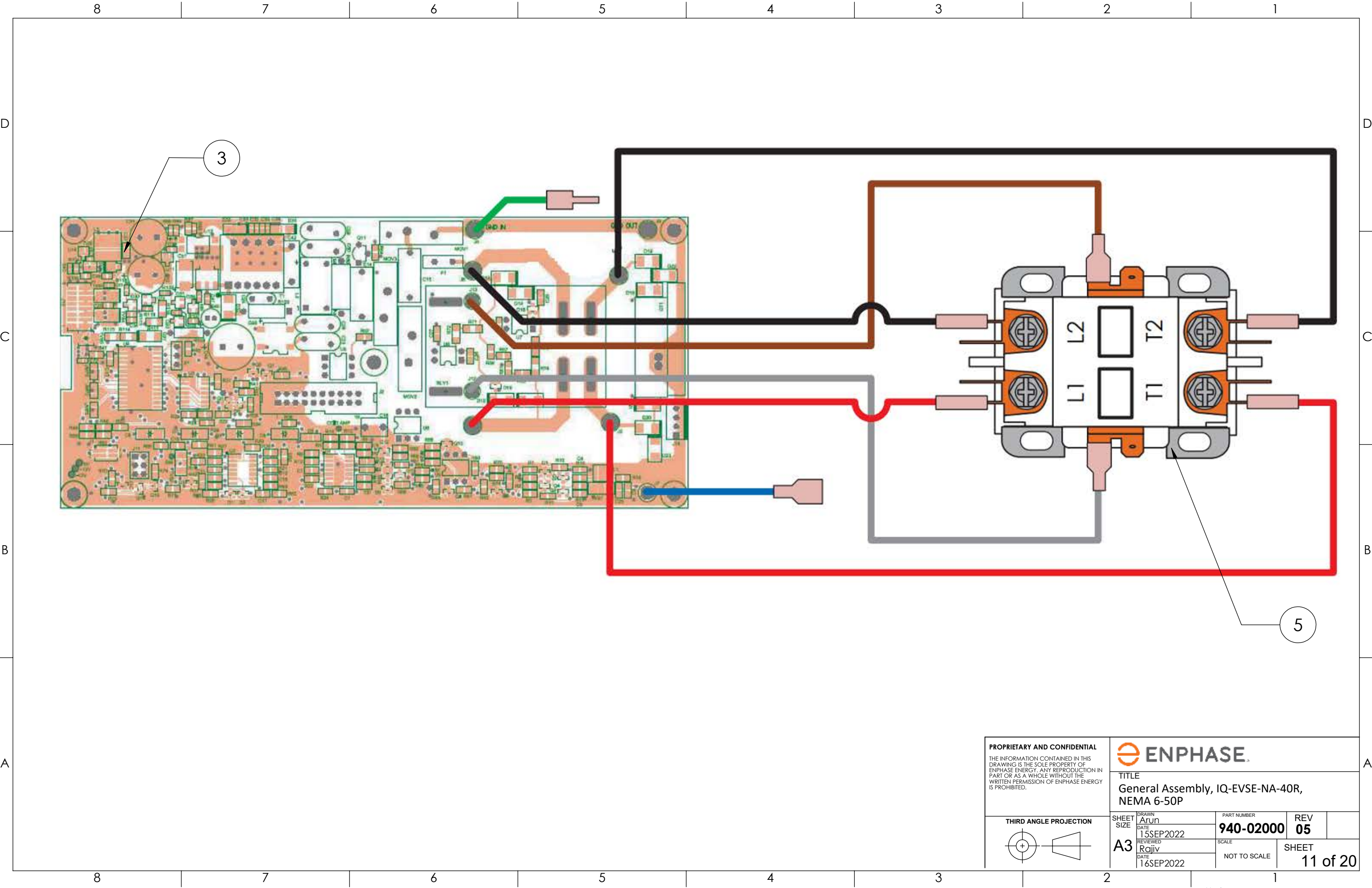
TITLE

General Assembly, IQ-EVSE-NA-40R,
NEMA 6-50P

SHEET SIZE A3	DRAWN Arun	PART NUMBER 940-02000	REV 05
	DATE 15SEP2022	SCALE NOT TO SCALE	SHEET 10 of 20
	REVIEWED Rajiv		
	DATE 16SEP2022		

THIRD ANGLE PROJECTION





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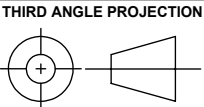


ENPHASE

TITLE

General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P

SHEET SIZE	DRAWN Arun	PART NUMBER	REV
	DATE 15SEP2022	940-02000	05
	REVIEWED Rajiv	SCALE NOT TO SCALE	SHEET 11 of 20
A3	DATE 16SEP2022		

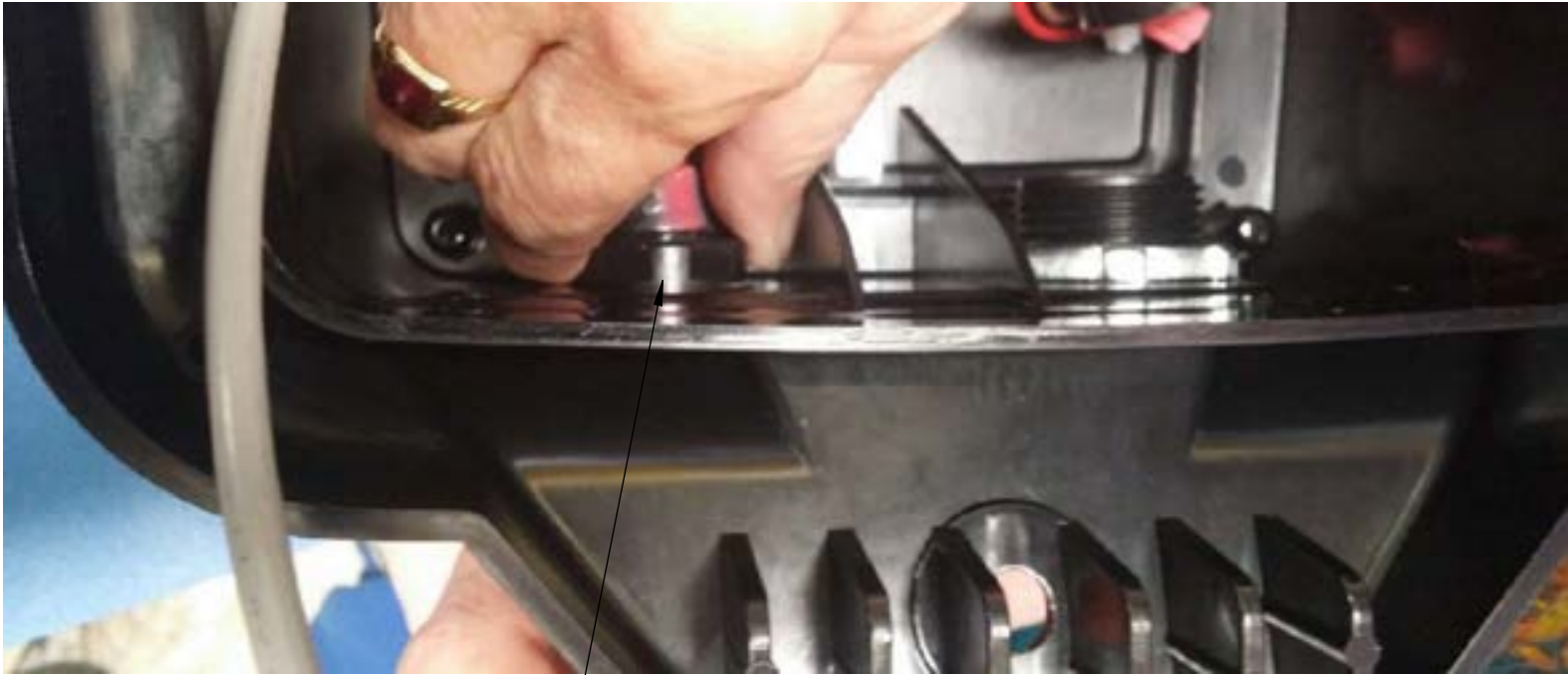
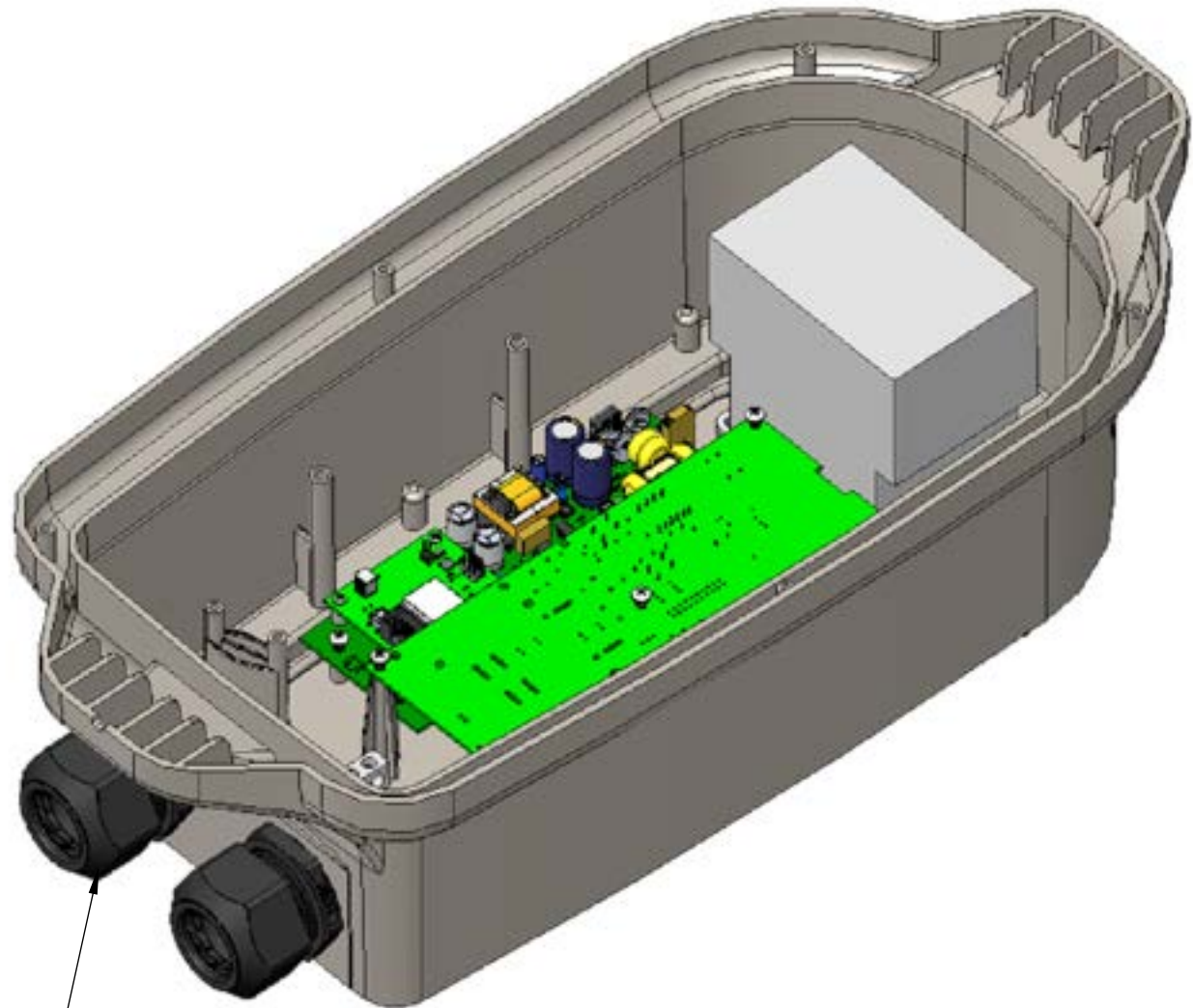


D

C

B

A

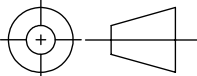


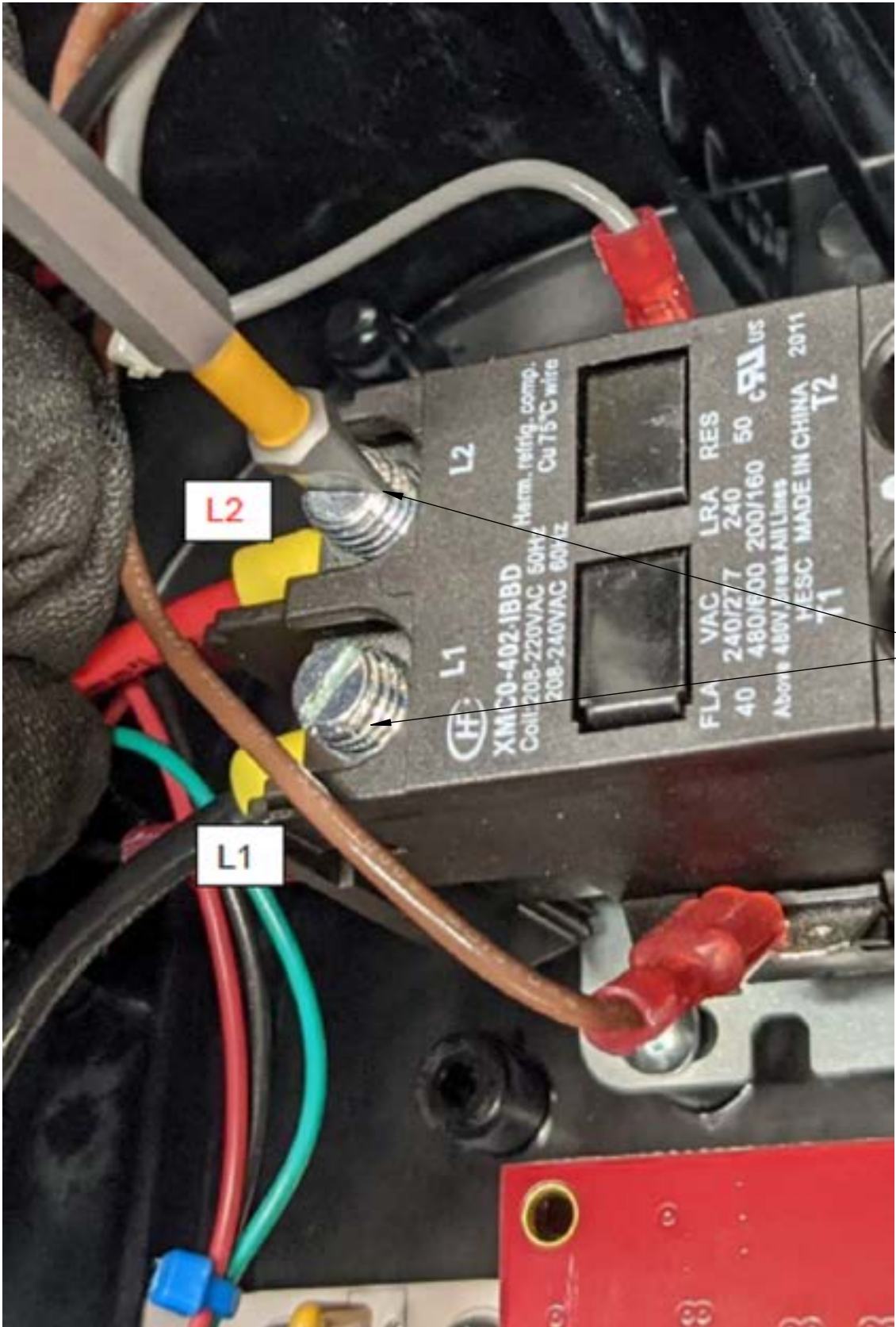
21

REMOVE THE NUT FROM CONDUIT STRAIN RELIEF.

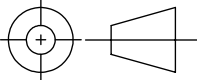
INSERT THE INPUT CABLES THROUGH
STRAIN RELIEF AND TIGHTEN THE NUT

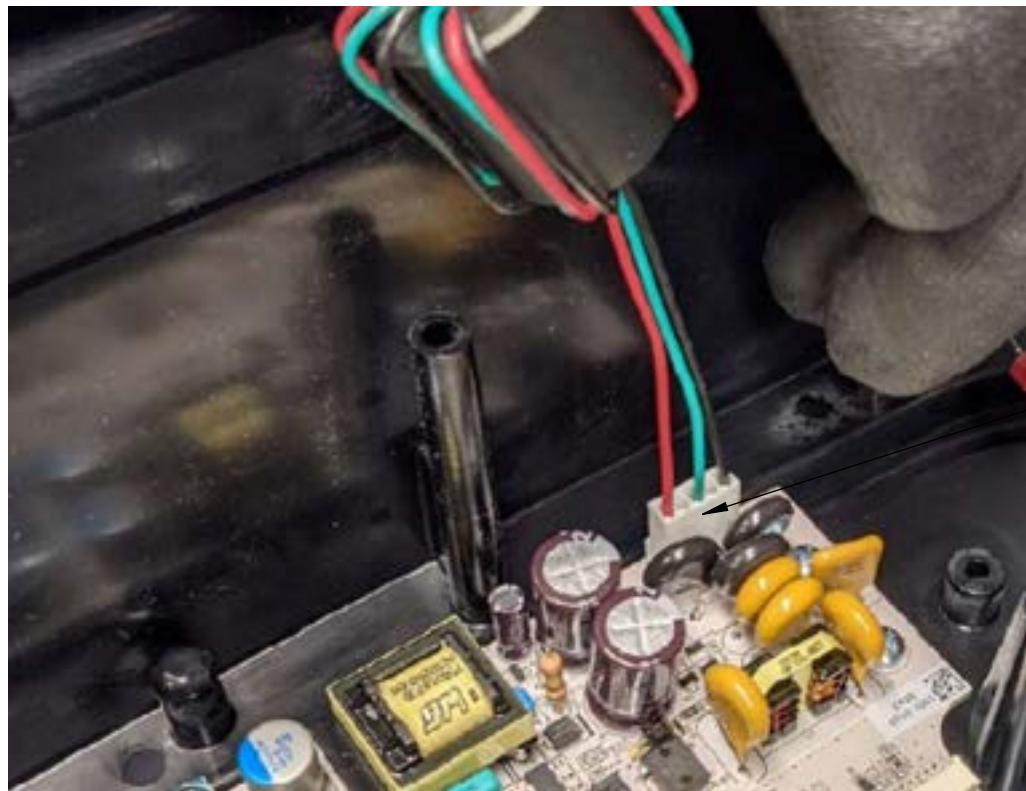
19

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THIRD ANGLE PROJECTION 		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P	
SHEET SIZE A3	DRAWN Arun DATE 15SEP2022 REVIEWED Rajiv DATE 16SEP2022	PART NUMBER 940-02000	REV 05
		SCALE NOT TO SCALE	SHEET 12 of 20

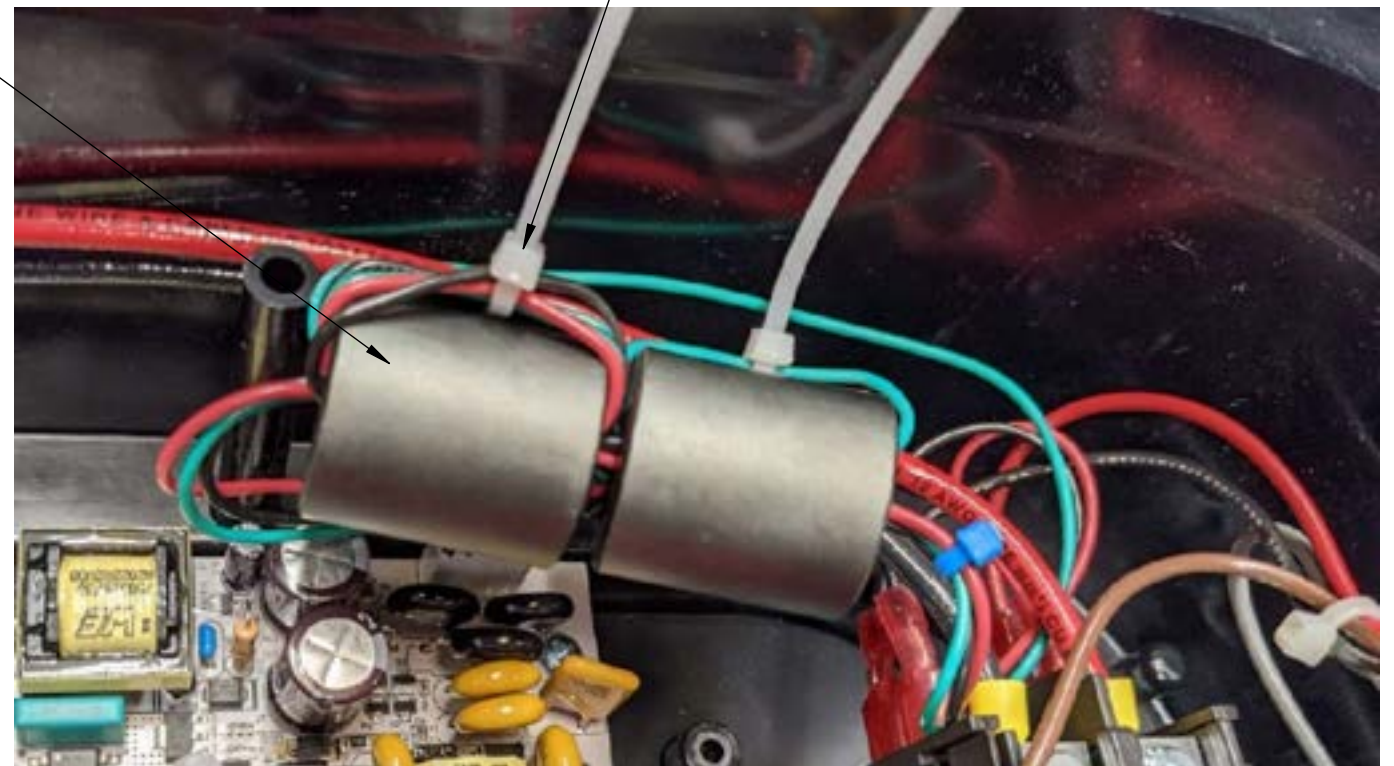


INSTALL WIRES TO CONTACTOR RELAY BLOCK L1 AND L2
TORQUE TO 25 IN-LBS
WITH TORQUE SCREWDRIVER.

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	TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
THIRD ANGLE PROJECTION 	SHEET SIZE A3	DRAWN Arun DATE 15SEP2022	PART NUMBER 940-02000	REV 05
		REVIEWED Rajiv DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 13 of 20

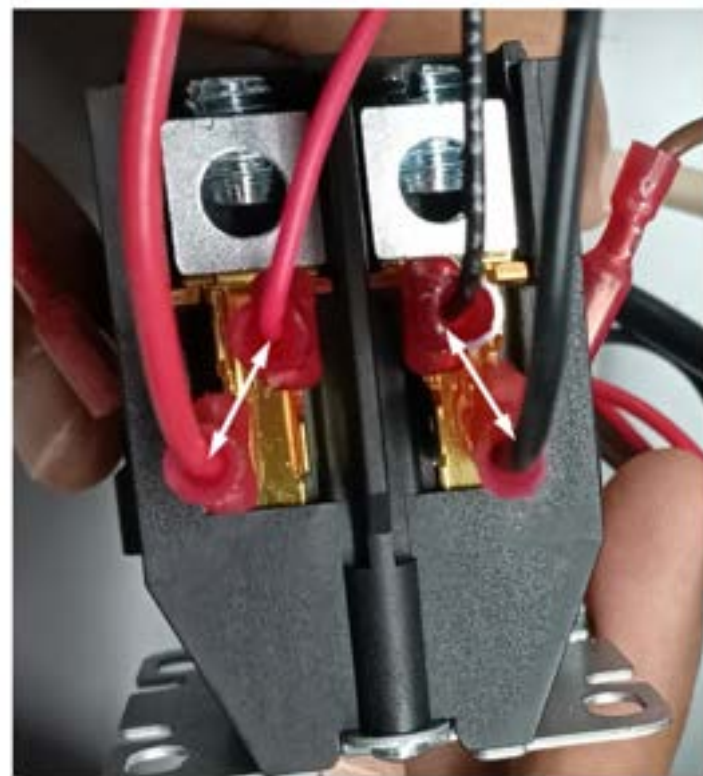


ATTACH THE POWER HARNESS TO COSMOS+



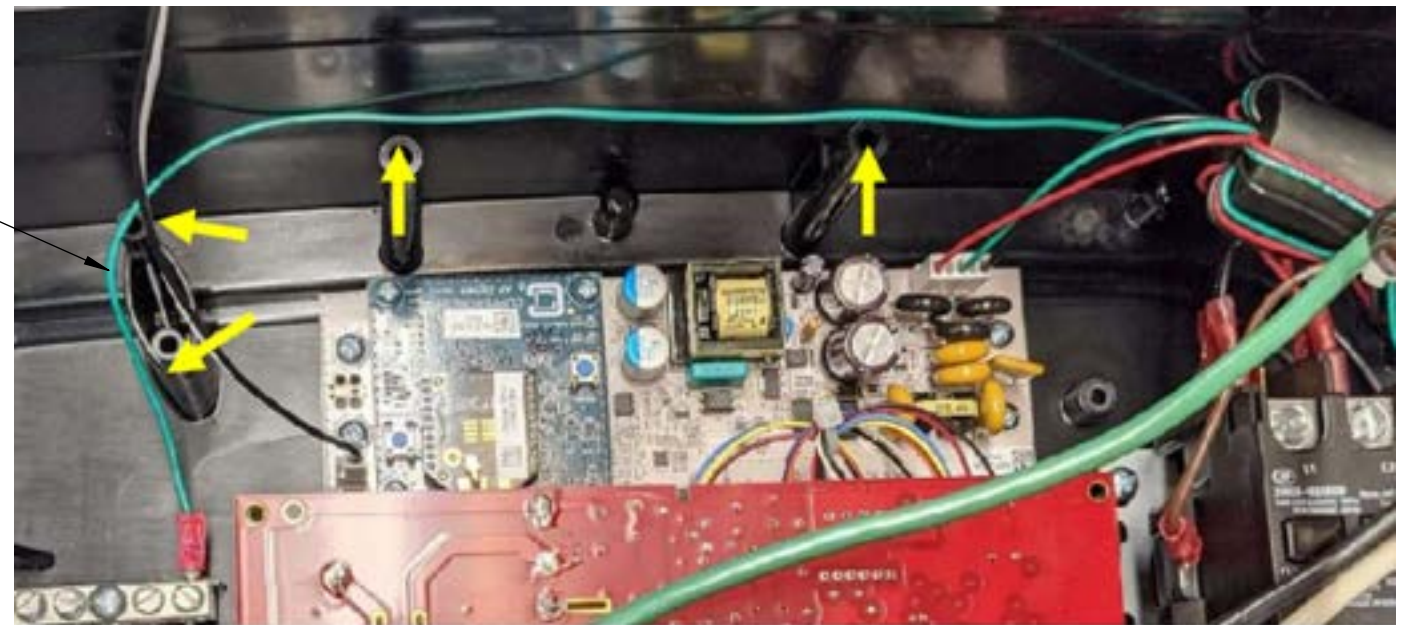
SECURE THE FERRITES FROM MOVING BY ATTACHING A TIE WRAP.

29



ATTACH THE POWER HARNESS L2(RED) AND L1 (BLACK) TO CONTACTOR RELAY TABS DIAGONAL TO THE GEN1 PCBA WIRES

ROUTE THE GREEN WIRE AROUND THE SUPPORT BOSSES

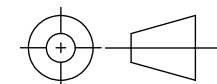


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ENPHASE

TITLE
General Assembly, IQ-EVSE-NA-40R,
NEMA 6-50P

THIRD ANGLE PROJECTION



SHEET
SIZE
A3

DRAWN
Arun
DATE
15SEP2022
REVIEWED
Rajiv
DATE
16SEP2022

PART NUMBER
940-02000

REV
05

SCALE
NOT TO SCALE

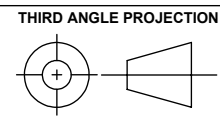
SHEET
14 of 20



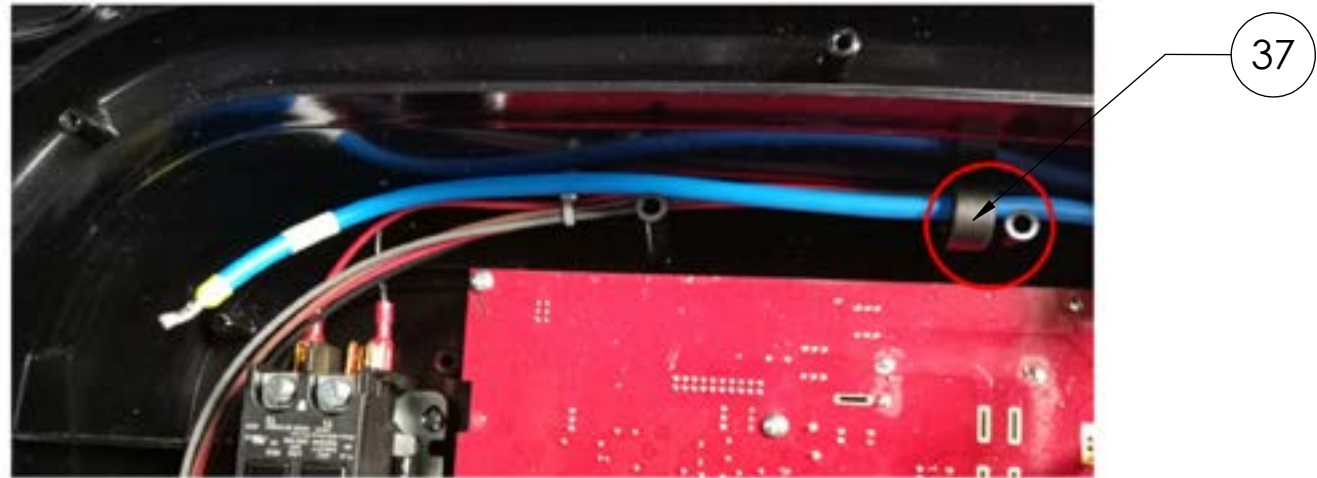
INSERT THE OUTPUT CABLES
THROUGH STRAIN RELEIF
AND TIGHTEN THE NUT



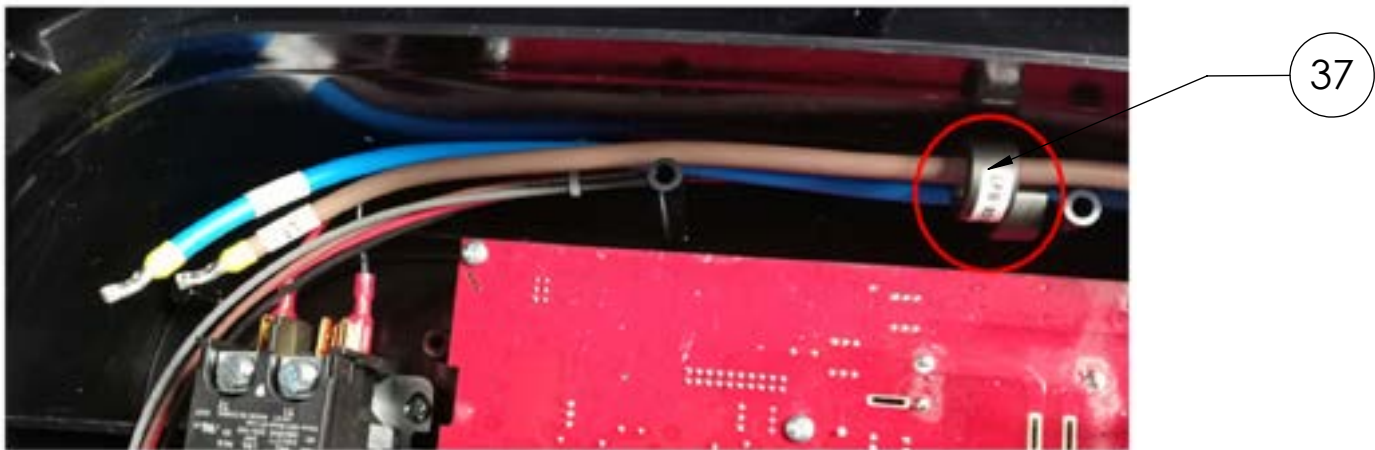
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ENPHASE ENERGY. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ENPHASE ENERGY IS PROHIBITED.					
		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
SHEET SIZE A3	DRAWN Arun DATE 15SEP2022	PART NUMBER 940-02000		REV 05	
	REVIEWED Rajiv DATE 16SEP2022	SCALE NOT TO SCALE		SHEET 15 of 20	



STEP 1 : PASS ONE OUTPUT CABLE THROUGH ONE FERRITE CORE.
ALIGN THE FERRITE CORE TO TOUCH THE PLASTIC BOSS.



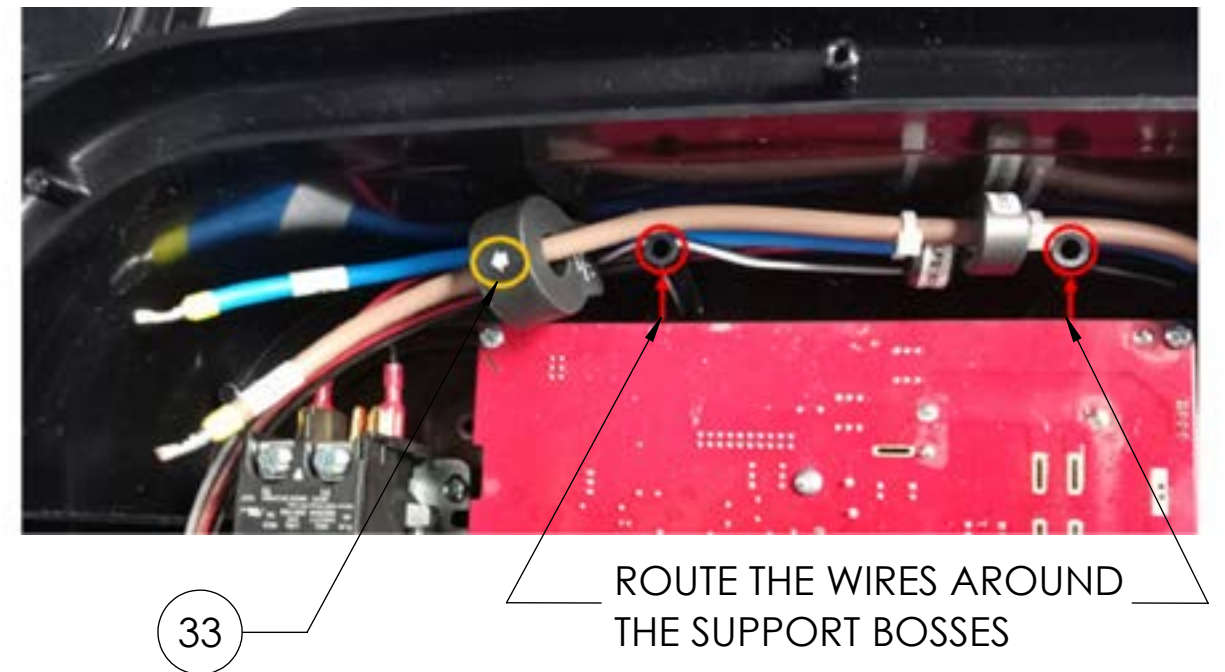
STEP 2 : PASS THE OTHER OUTPUT CABLE THROUGH ANOTHER FERRITE CORE.
ALIGN THE FERRITE CORE TO TOUCH THE FIRST FERRITE CORE.



STEP 3 : SECURE FERRITES FROM MOVING BY ATTACHING A TIE WRAP
FOR BOTH CABLES TOGETHER ON EITHER SIDE OF FERRITES



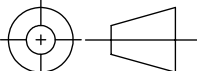
STEP 4 : OUTPUT WIRE T1 PASSING THROUGH THE CENTRE OF
CT WITH ARROW POINTING TOWARDS CONTACTOR



STEP 5 : ADD TIE WRAP ON ONE END TO SECURE CT AS
SHOWN BELOW

ADD
TIE WRAP



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THIRD ANGLE PROJECTION 		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P	
SHEET SIZE A3		DRAWN Arjun DATE 15SEP2022 REVIEWED Rajiv DATE 16SEP2022	PART NUMBER 940-02000 REV 05
		SCALE NOT TO SCALE	SHEET 16 of 20

D

D

INSTALL OUTPUT CABLES TO CONTACTOR RELAY BLOCK T1 AND T2
TORQUE TO 25 IN-LBS
WITH TORQUE SCREWDRIVER.

C

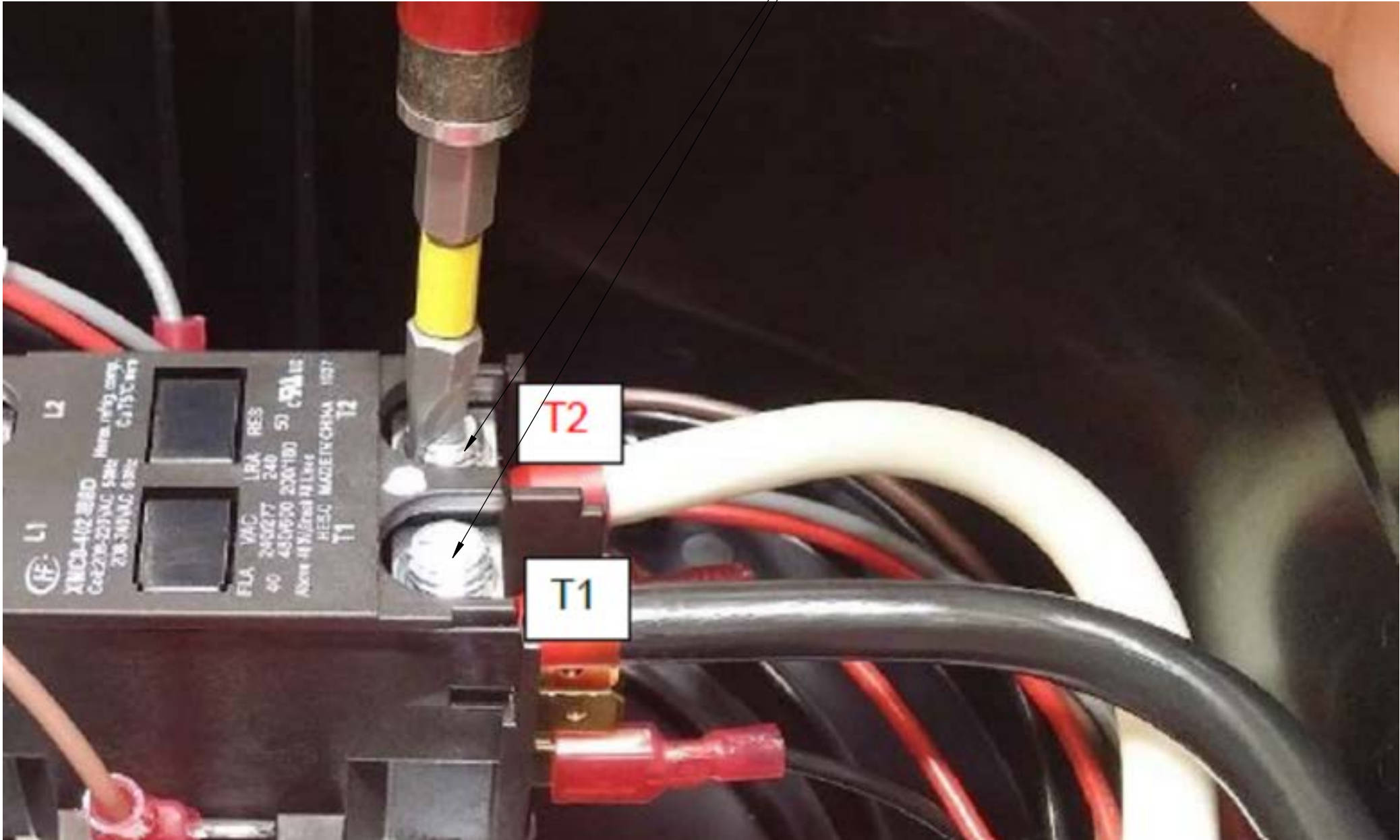
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B

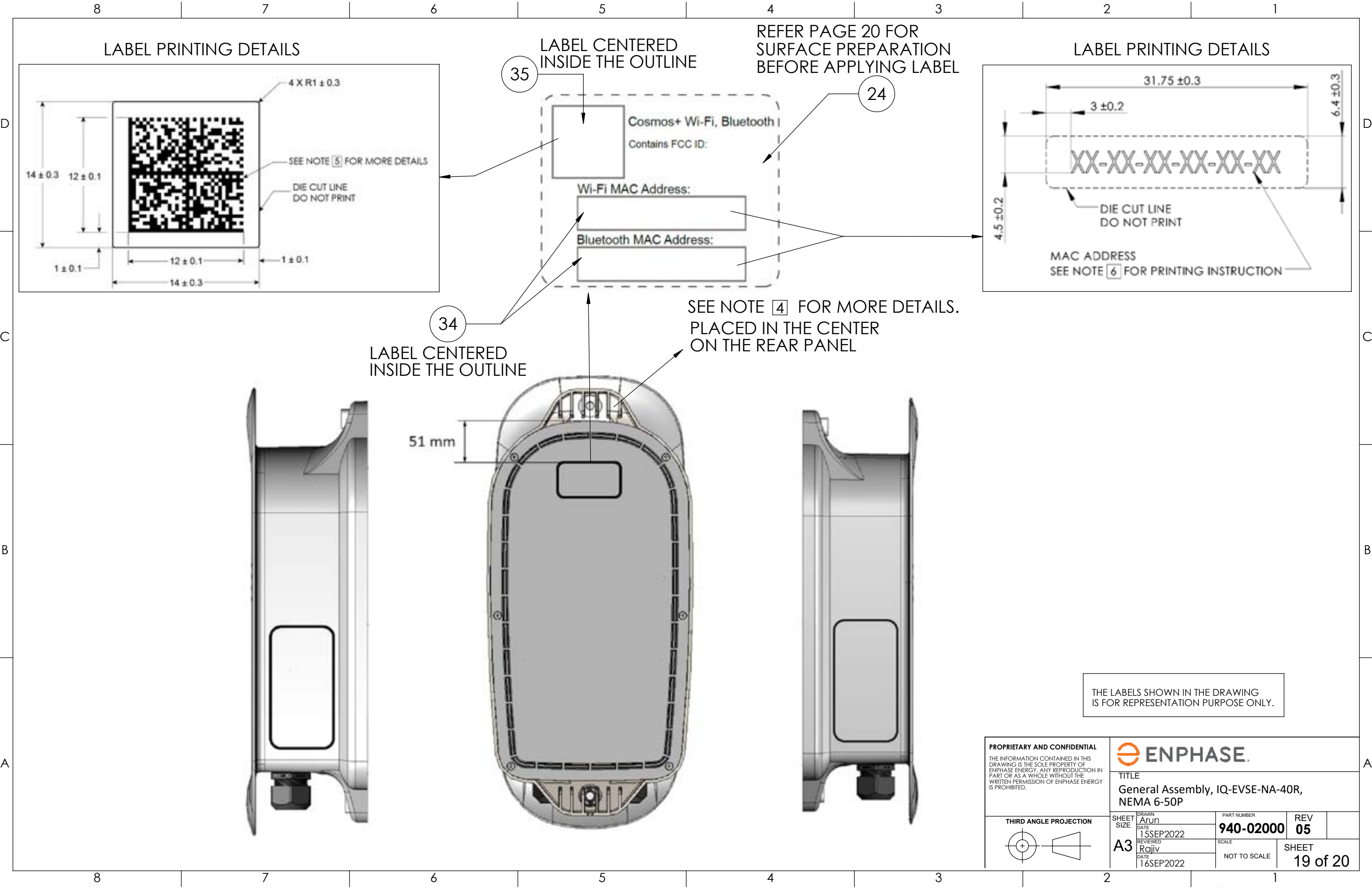
B

A

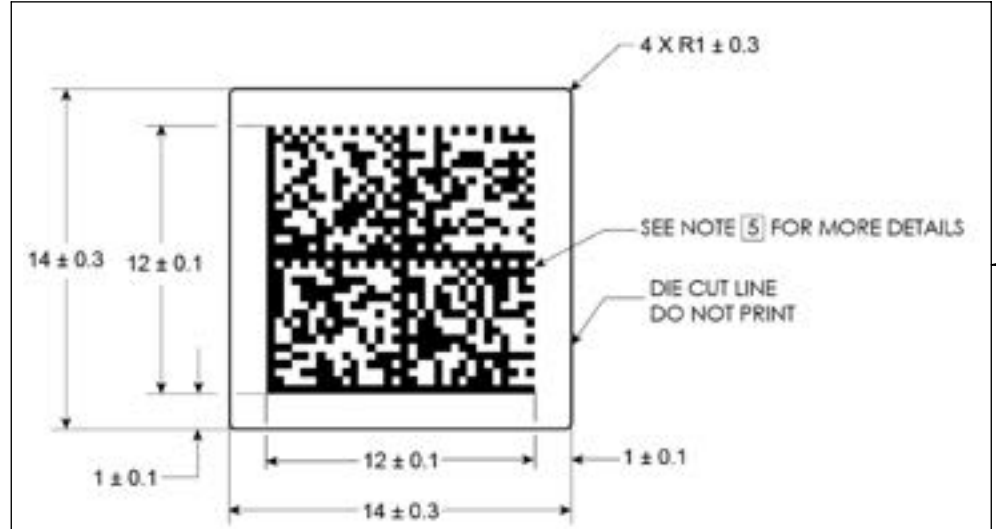
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		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
SHEET SIZE A3	DRAWN Arun	PART NUMBER 940-02000		REV 05	
	DATE 15SEP2022				
	REVIEWED Rajiv	SCALE NOT TO SCALE		SHEET 17 of 20	
	DATE 16SEP2022				



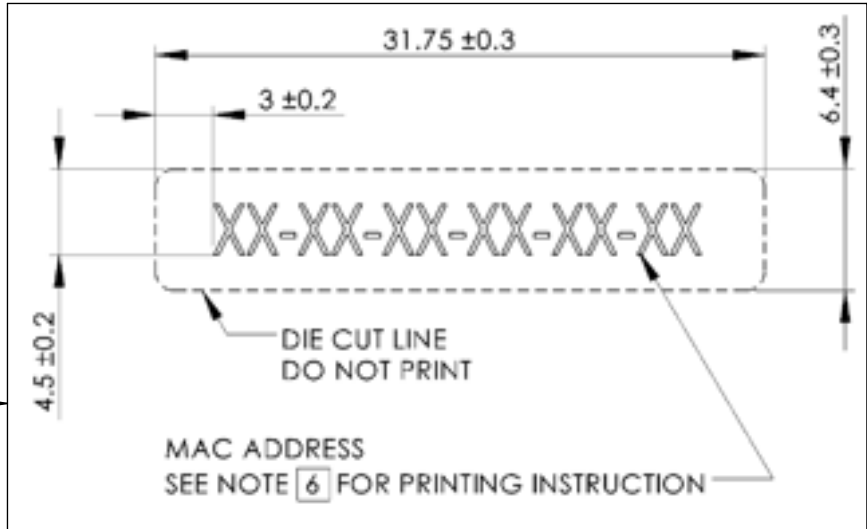
LABEL PRINTING DETAILS



LABEL CENTERED
INSIDE THE OUTLINE

REFER PAGE 20 FOR
SURFACE PREPARATION
BEFORE APPLYING LABEL

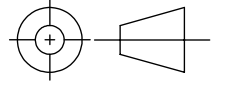
LABEL PRINTING DETAILS



LABEL CENTERED
INSIDE THE OUTLINE

SEE NOTE [4] FOR MORE DETAILS.
PLACED IN THE CENTER
ON THE REAR PANEL

THE LABELS SHOWN IN THE DRAWING
IS FOR REPRESENTATION PURPOSE ONLY.

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TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P		REV 05	
SHEET SIZE A3		PART NUMBER 940-02000	SCALE NOT TO SCALE
THIRD ANGLE PROJECTION 		DATE 15SEP2022 REVIEWED Rgjiv DATE 16SEP2022	SHEET 19 of 20

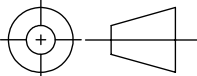
Surface preparation for applying the Labels and Antenna mounting

- Most substrates are best prepared by wiping (in one direction) with a 50:50 mixture of isopropyl alcohol (IPA) and water.
- Where heavy oils or greases are present, there may be a need to first cut the oil with a “degreasing” solvent. This should always be followed by cleaning with IPA/water mixture.
- Abrasion or scuffing of the surface will in many instances enhance adhesion by increasing the surface area available for bonding. Scuffing must be followed by cleaning with IPA/water mixture.
- The surface must be dry



NOTE:

- The technical information and data provided within should be considered representative or typical only and should not be used for specification purposes.
- User should evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user’s method of application.

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		TITLE General Assembly, IQ-EVSE-NA-40R, NEMA 6-50P			
THIRD ANGLE PROJECTION 	SHEET SIZE	DRAWN Arun DATE 15SEP2022	PART NUMBER 940-02000	REV 05	
	A3	REVIEWED Rajiv DATE 16SEP2022	SCALE NOT TO SCALE	SHEET 20 of 20	