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DWG NO60-000157SH1

I

NOTES"

1. THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE DEVICES (ESD).
STATIC FREE HANDLING IS REQUIRED PER MIL-STD-1686, CLASS 2.

2. TIGHTEN ITEM 27 TO 20 IN/LBS OF TORQUE.

3. ALL SCREWS SHALL BE TIGHTENED TO THE APPROPRIATE TORQUE
VALUE SHOWN IN TABLE A.

4. WHEN INSTALLING ITEM 4 (POWER SUPPLY SPACER), ENSURE
ORIENTATION MATCHES POWER SUPPLY/ MICROCONTROLLER (ITEM 2).

5. APPLY A CONTINUOUS BEAD OF RTV (ITEM 29) AROUND MATING
SURFACE OF HOUSING PRIOR TO INSTALLING THE REAR PANEL.

6. APPLY WAVEGUIDE GASKET AND WINDOW (ITEMS 23 AND 24) TO THE
RX AND TX PORTS OF THE DIPLEXER ITEM 7 BY FIRST CENTRALLY
LOCATING THE WINDOW (ITEM 24) TO THE ADHESIVE SIDE OF THE
GASKET (ITEM 23). INSTALL THE WINDOW/GASKET ASSEMBLY TO THE
DIPLEXER ENSURING THE APERTURE IN THE GASKET IS CENTRALLY
LOCATED OVER THE WAVE GUIDE APERTURE IN THE DIPLEXER.

7. APPLY A CONTINUOUS BEAD OF EPOXY (ITEM 30) TO RAILS (ITEM 5)
AROUND MATING SURFACE PERIMETER. APPLY EPOXY TO THREADS
OF ITEM 16 PRIOR TO INSTALLING.

8. ATTACH CONNECTOR (PART OF ITEM 1) TO REAR PANEL USING
JACK POST PROVIDED WITH CONNECTOR. TORQUE JACK POST TO
4-40 VALUE SHOWN IN TABLE A.

9. BAG ITEMS 25 AND 26, (O-RING AND SCREWS) AND SHIP WITH
ASSEMBLY FOR USE AT NEXT ASSEMBLY LEVEL.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03-04-16	
B	REVISED PER ECO 0347	03-07-03	
C	REVISED PER ECO 0377	03-08-09	
D	REVISED PER ECO 0413	03-11-11	

TABLE B (ASSEMBLY VARIANTS)

PART NUMBER	DESCRIPTION
60-000157-01	RADIO ASSEMBLY, CPE, 24 GHZ
60-000157-02	RADIO ASSEMBLY, CPE, 23 GHZ US, TXH
60-000157-03	RADIO ASSEMBLY, CPE, 23 GHZ US, TXL
60-000157-04	RADIO ASSEMBLY, CPE, 23 GHZ ETSI, TXH
60-000157-05	RADIO ASSEMBLY, CPE, 23 GHZ ETSI, TXL
60-000157-06	RADIO ASSEMBLY, CPE, 26 GHZ ETSI, TXH
60-000157-07	RADIO ASSEMBLY, CPE, 26 GHZ ETSI, TXL
60-000157-08	RADIO ASSEMBLY, CPE, 18 GHZ US, TXH
60-000157-09	RADIO ASSEMBLY, CPE, 18 GHZ US, TXL
60-000157-10	RADIO ASSEMBLY, CPE, 23 GHZ AUST, TXH
60-000157-11	RADIO ASSEMBLY, CPE, 23 GHZ AUST, TXL

TABLE A
TORQUE REQUIREMENTS

SCREW SIZE	TORQUE (IN.LB)
2-56	3.5 - 4.0
4-40	6.5 - 8.0
6-32	13.0 - 15.0
8-32	24.0 - 28.0
10-24	22.0 - 27.0
10-32	40.0 - 48.0
1/4-20	77.0 - 92.0
1/4-28	85.0 - 100.0

SEE SEPARATE PARTS LIST PL60-000157

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
AND APPLY AFTER FINISHING

TOLERANCES:

xxx ± .005

xx ± .01

x ±

ANGLES
± 2°

DRAWN BY
KW

DATE
02-12-09

CHECKER
ELEC ENG

DES APPL

PROD

QA



411 LEGGET DRIVE, SUITE 600,
KANATA, ONTARIO, K2K 3C9

TITLE
RADIO ASSEMBLY

D

DRAWING NO.
60-000157

MFG CODE

REV
D

SCALE 1/1

SHEET 1 OF 2

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PROPRIETARY

D

D

REV

REV
STATUS
OF SHEETS

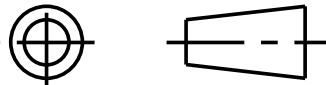
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SHEET

NEXT ASSY

USED ON



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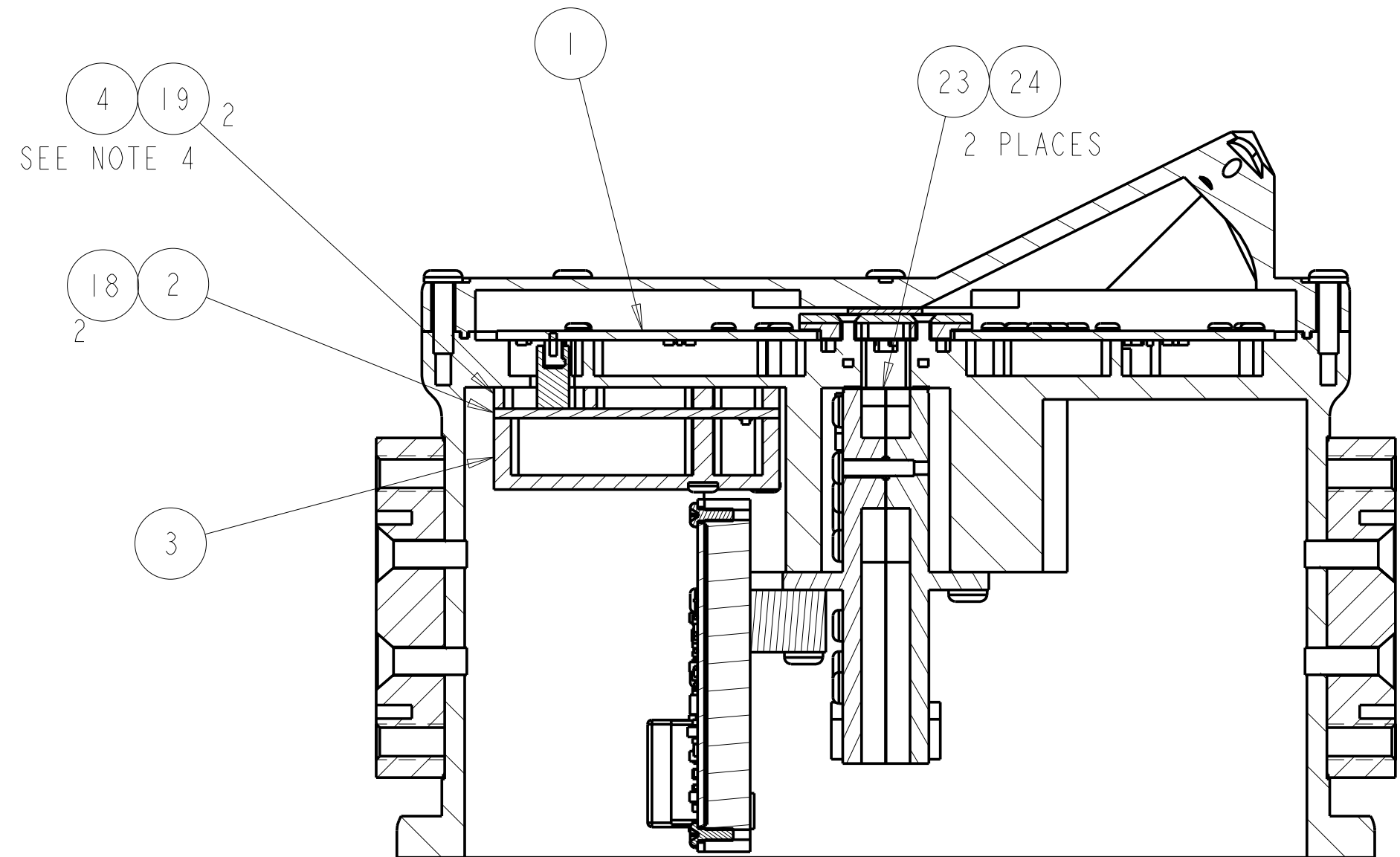
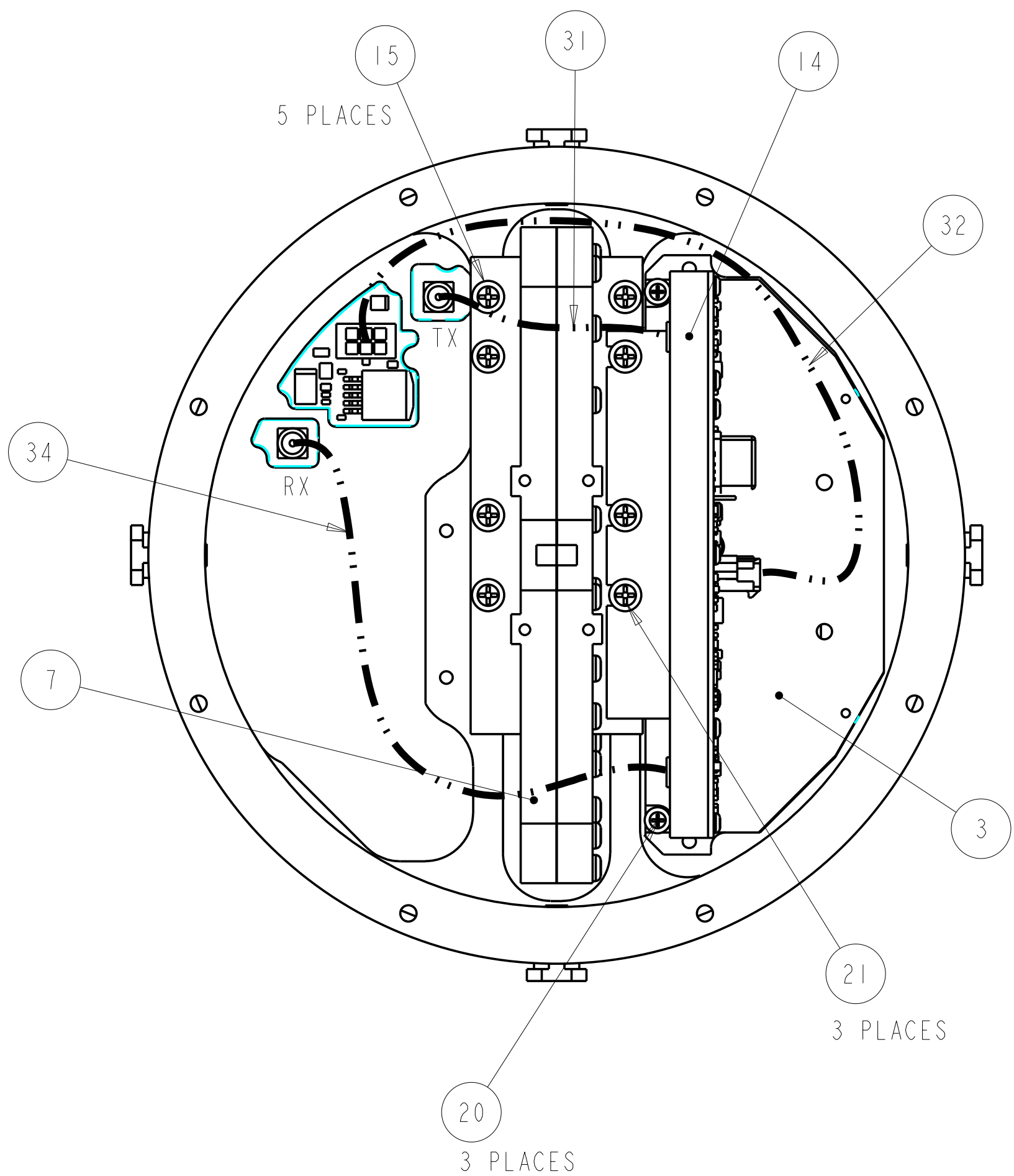
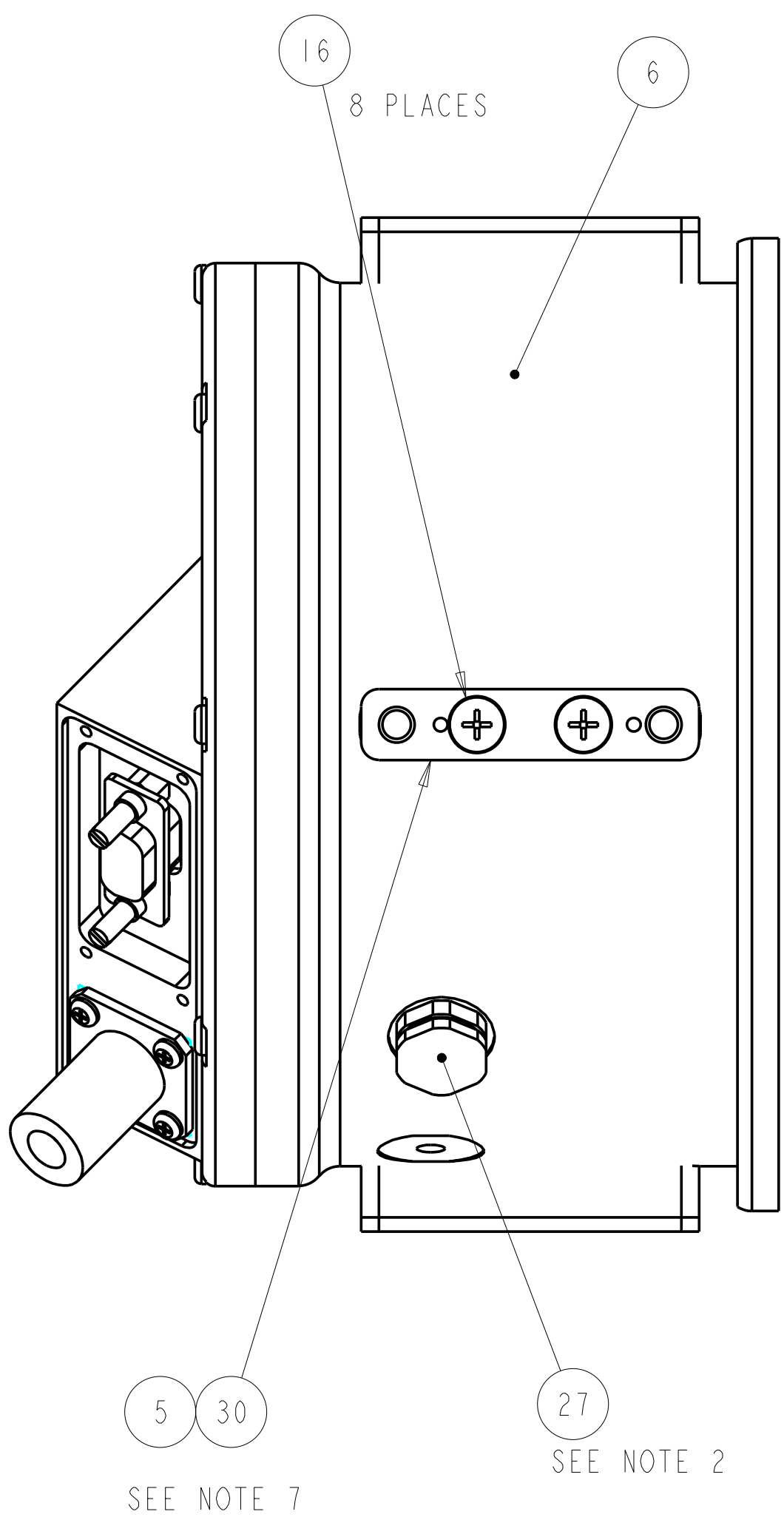
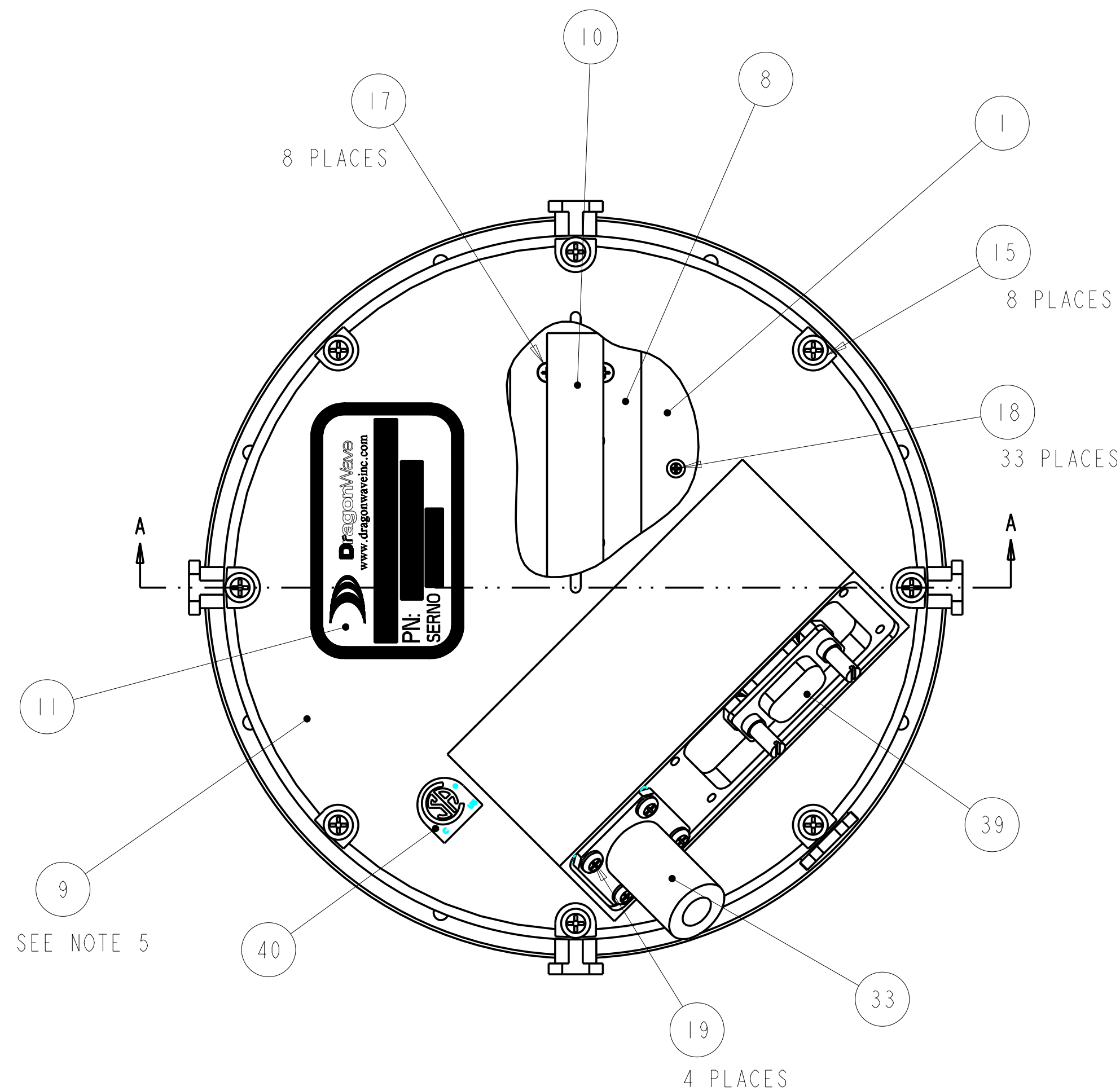
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DWG NO

SH

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03-04-16	
B	REVISED PER ECO 0347	03-07-03	
C	REVISED PER ECO 0377	03-09-09	
D	REVISED PER ECO 0413	03-11-11	



SECTION A-A

PROPRIETARY
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D

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DWG NO

60-000175

SH 1

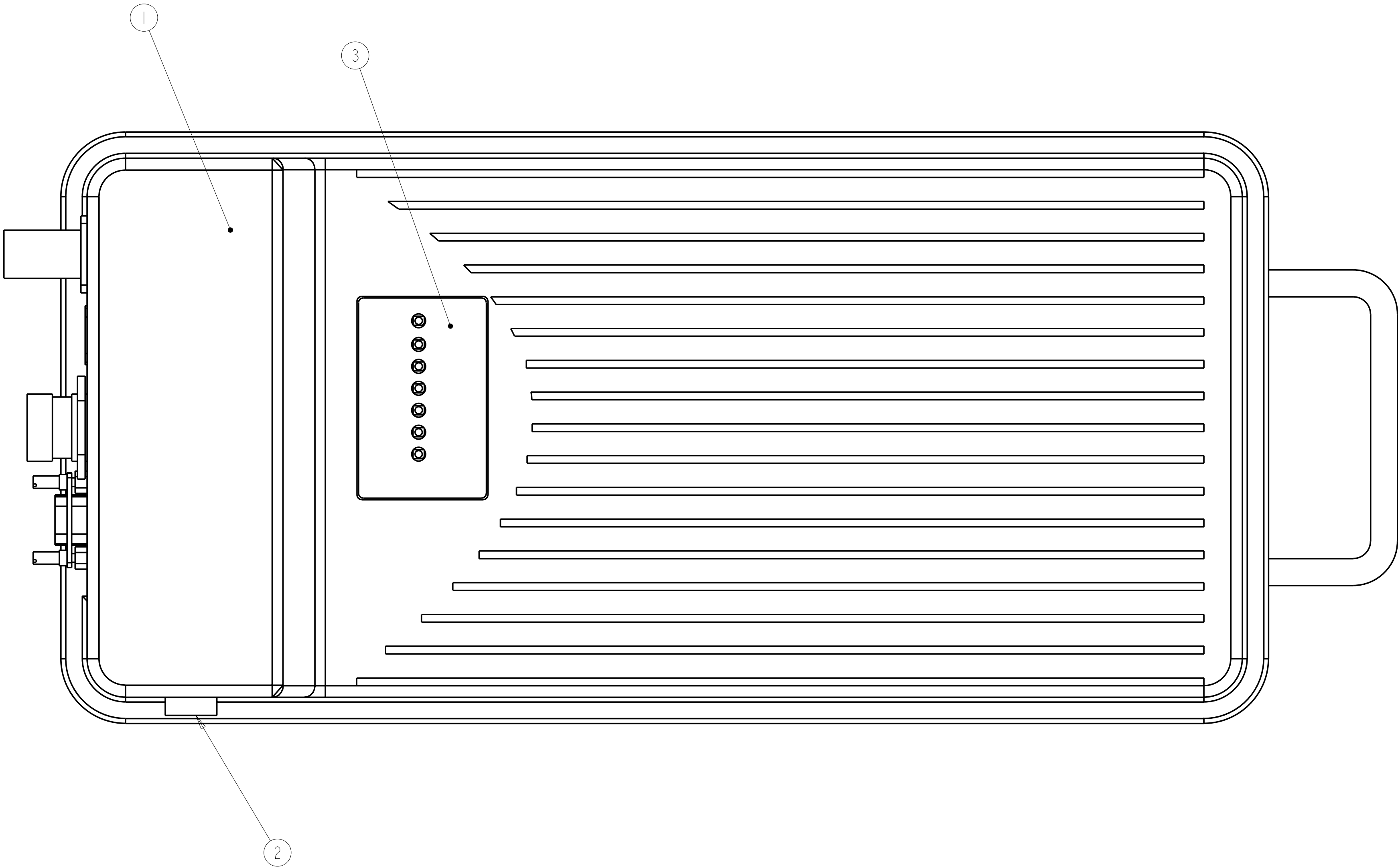
1

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL ISSUE		

- THIS ASSEMBLY CONTAINS ELECTROSTATIC SENSITIVE (ESD) DEVICES. STATIC FREE HANDLING IS REQUIRED PER MIL-STD-1686, CLASS 2.
- ASSMEBLY PER ALL APPLICABLE REQUIREMENTS OF MIL-HDBK-454.
- ALL SCREWS SHALL BE TIGHTENED TO THE APPROPRIATE TORQUE VALUE SHOWN IN TABLE 1.
- REMOVE RELEASE LINER FROM THERMAL PADS AND INSTALL IN POSITIONS SHOWN.
- CAREFULLY INSTALL IF MODULE ASSEMBLY ENSURING CONNECTORS TO MODEM CARD ARE PROPERLY ALIGNED.
- CONNECT ALL CABLES AS SHOWN, ENSURE CABLES ARE PROPERLY GROOMED AND SECURED.
- ENSURE O-RING IS PROPERLY SEATED PRIOR TO INSTALLING THE LID.
- FORM ETHERNET CABLE APPROXIMATELY AS SHOWN. RJ45 CONNECTOR SHOULD REST LEVEL WITH AND IN FRONT OF BOARD CONNECTOR AFTER FORMING. THERE MUST BE MINIMAL OR NO STRESS IMPOSED ON THE BOARD CONNECTOR WHEN THE CABLE CONNECTOR IS ENGAGED.
- APPLY LOCTITE, ITEM 25, TO THREADS OF NUT PRIOR TO INSTALLING.
- APPLY PROTECTIVE DUST CAPS TO ALL EXPOSED CONNECTORS AFTER ASSEMBLY.
- APPLY PROTECTIVE CAPS TO THE END OF THE MOUNTING STUDS ON REAR PANEL AFTER ASSEMBLY.
- CLEAN AND DEGREASE SURFACE PRIOR TO APPLYING LABELS. FOR ALL LABELS REMOVE ADHESIVE LINER AND APPLY LABEL WHERE SHOWN. PLACE LABELS FIRMLY INTO PLACE ENSURING NO AIR BUBBLES REMAIN UNDER THE LABEL.
- APPLY LOCTITE TO THREADS OF JACKPOSTS SUPPLIED WITH D-SUB CONNECTORS ON THE DATA CABLE ASSY. TORQUE JACKPOSTS TO 5.5-6.5 IN-LBS.
- TORQUE SMA CONNECTORS TO 1 N-M
- APPLY RTV TO INSIDE FACE OF PLATE PRIOR TO SCREWING INTO HOUSING.
- LIGHTLY ABRABE MATING SURFACES OF HOUSING AND BLANKING PLATE. CLEAN SURFACES AND APPLY EPOXY TO MATING SURFACES. CLAMP IN PLACE, PROVIDING A .003 INCH THICK EPOXY FILM, UNTIL CURED.

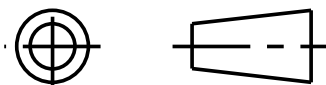
TABLE A TORQUE REQUIREMENTS	
SCREW SIZE	TORQUE (IN.LB)
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8-32	24.0 - 28.0
10-24	22.0 - 27.0
10-32	40.0 - 48.0
1/4-20	77.0 - 92.0
1/4-28	85.0 - 100.0



TORQUE TO 20 INCH-LBS

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A	A	A	REV	REV STATUS
3	2	1	SHEET	OF SHEETS

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN AND APPLY AFTER FINISHING			 411 LEGGET DRIVE, SUITE 600, KANATA, ONTARIO, K2K 3C9								
			DRAWN BY AK	DATE									
		TOLERANCES: xxx ± ANGLES xx ± ± x ±	CHECKER	ELEC ENG		TITLE ASSEMBLY, MODEM, COMMON							
			DES APPL										
			PROD										
NEXT ASSY	USED ON		QA		<table><tr><td>D</td><td>DRAWING NO. 60-000175</td><td>MFG CODE 01</td><td>REV A</td></tr><tr><td colspan="2">SCALE 1:1</td><td colspan="2">SHEET 1 OF 3</td></tr></table>	D	DRAWING NO. 60-000175	MFG CODE 01	REV A	SCALE 1:1		SHEET 1 OF 3	
D	DRAWING NO. 60-000175	MFG CODE 01	REV A										
SCALE 1:1		SHEET 1 OF 3											

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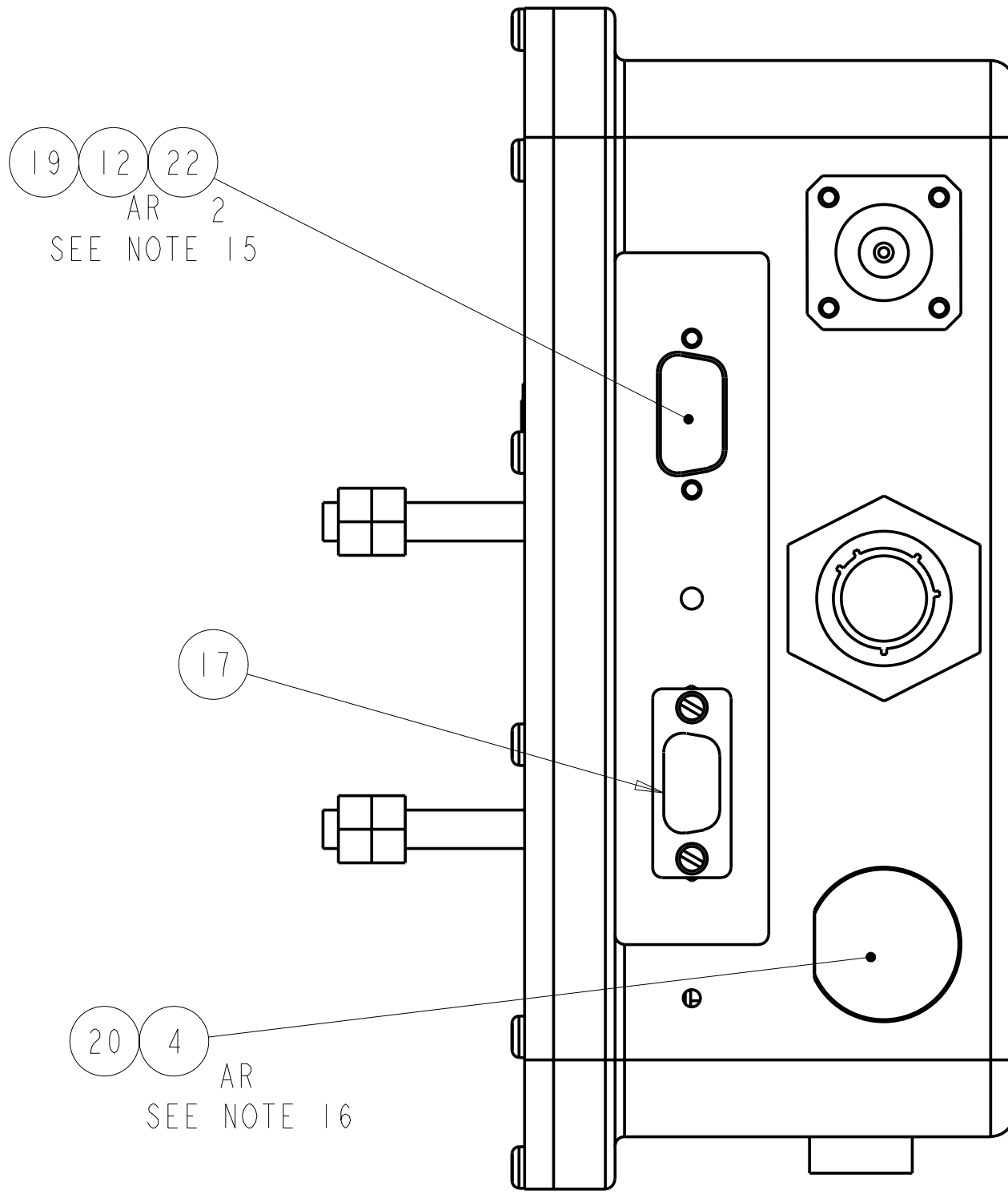
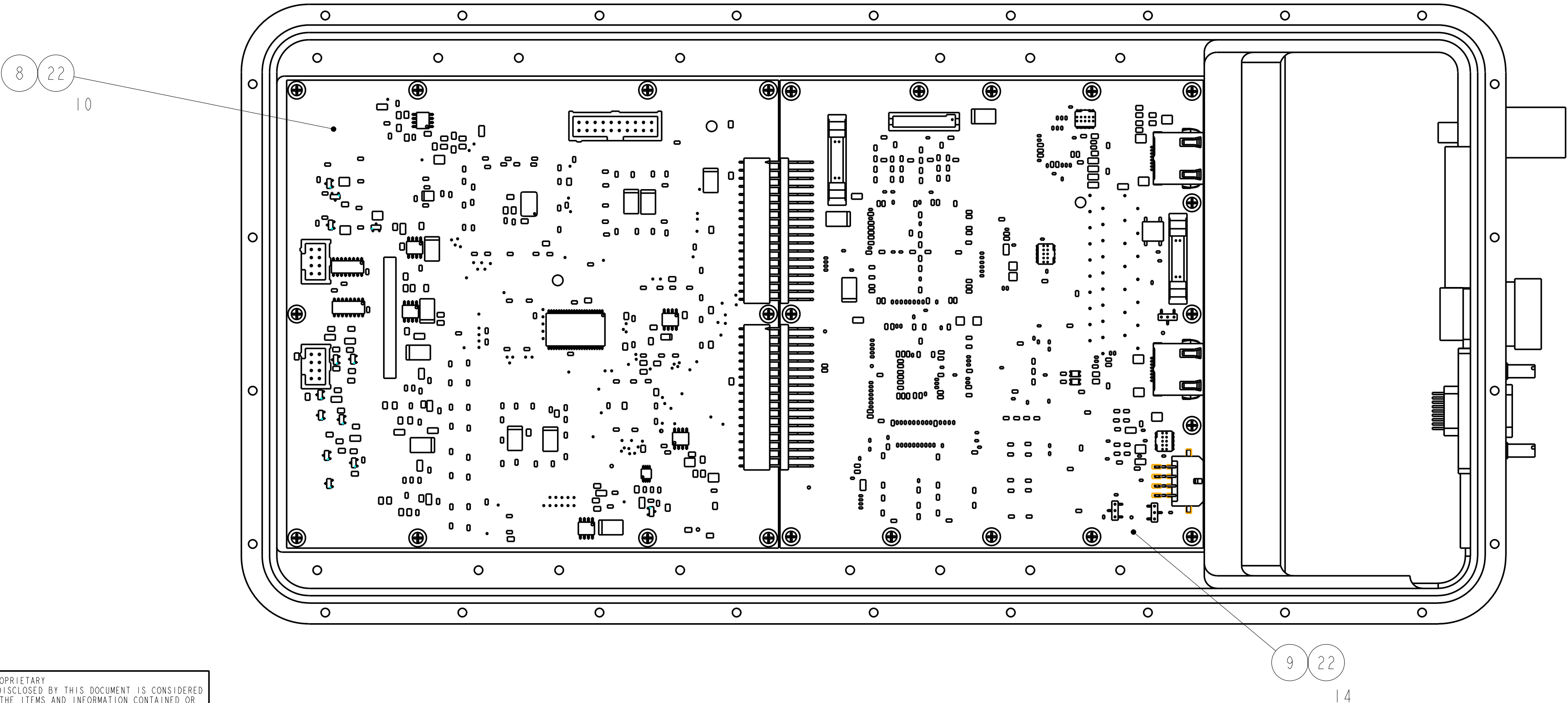
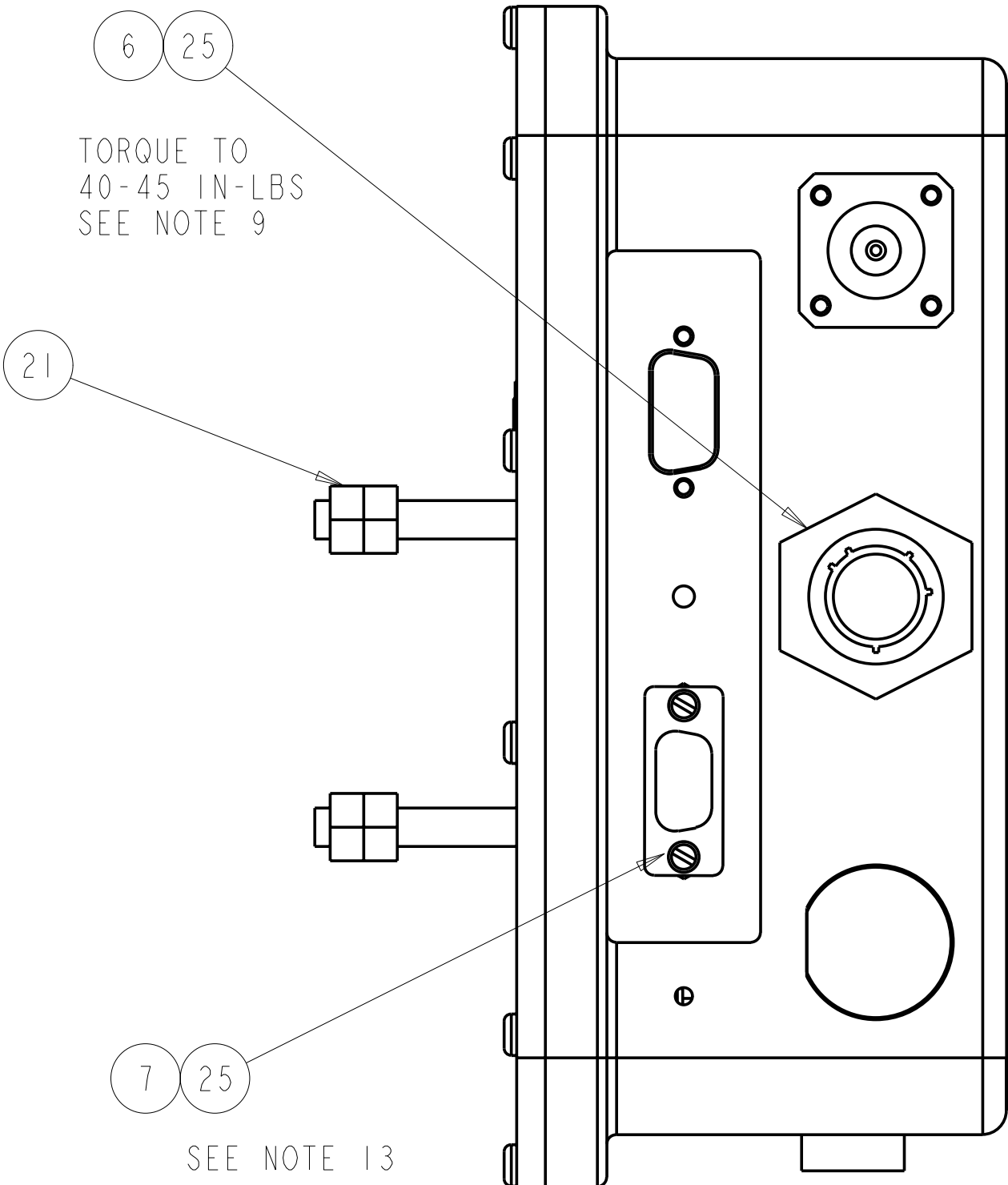
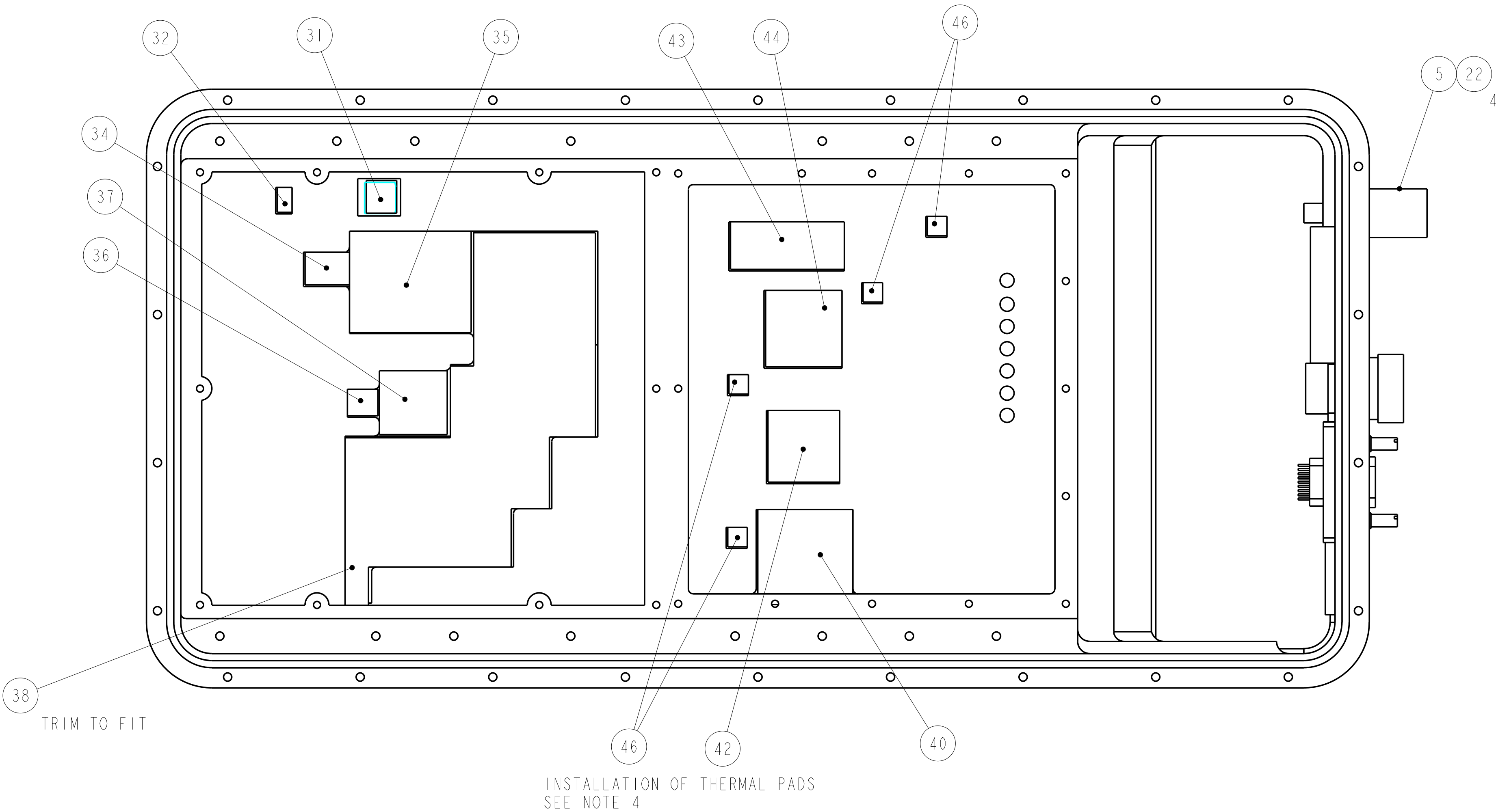
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DWG NO 60-000175

SH 2

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL ISSUE		



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DWG NO. 60-000175

SH 3

1

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	ORIGINAL ISSUE	6/20/03	

13
SEE NOTE 7

11 24
7

18

SEE NOTE 14

10 23
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14 24
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D	DRAWING NO. 60-000175
SCALE 1:1	SHEET 3

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REV		DESCRIPTION		DATE		APPROVED																																																																									
01		ORIGINAL ISSUE		01/21/02		A. KINCAID																																																																									
NOTES: 1. THIS DRAWING DONE AS A NEGATIVE IMAGE. CHARACTERS AND BORDER ARE TO BE WHITE ON BLACK BACKGROUND. 2. MATERIAL: POLYESTER FILM BAYER 2v87 UV .008 INCH THICK OR EQUIVALENT. ADHESIVE 3M TYPE 967 .002 INCH THICK WITH RELEASE LINER. 3. UNLESS OTHERWISE SPECIFIED, ALL LETTERING TO BE .08 INCH HIGH GOTHIC, SPACING APPROXIMATELY AS SHOWN. 4. BLOCK 1,2, AND 3 TO BE COMPLETED WITH TEXT AS SPECIFIED IN THE PURCHASE REQUIREMENTS. TEXT HEIGHT AS FOLLOWS: BLOCK 1 - 0.20 BLOCK 2 - 0.16 BLOCK 3 - 0.12 IF NOT SPECIFIED IN THE PURCHASE ORDER BLOCKS 1,2,AND 3 TO BE AS SHOWN, WHITE ON BLACK BACKGROUND 5. FINISHED ITEM TO BE BAGGED AND TAG IDENTIFIED WITH "65-000012-01-XX" WHERE "XX" IS THE MANUFACTURING CODE SHOWN ON THE TITLE BLOCK OF THIS DRAWING. 6. TEXT AND STYLE SHOWN ON THIS DRAWING IS FOR INFORMATION ONLY. LABEL SHALL BE MANUFACTURED USING ARTWORK PROOFS, OR EQUIVALENT, APPROVED BY DRAGONWAVE INC. 2.35 .10(TYP) 1.400 BLOCK 1 BLOCK 2 BLOCK 3 DragonWave www.dragonwaveinc.com PN: [REDACTED] SERNO [REDACTED] TEXT HEIGHT .20 { TEXT HEIGHT .16 { TEXT HEIGHT .12 { <table><tr><td></td><td></td><td colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISHING</td><td colspan="2"></td><td colspan="4">411 LEGGET DRIVE, SUITE 600, KANATA, ONTARIO, K2K 3C9</td></tr><tr><td></td><td></td><td colspan="2">TOLERANCES:</td><td>DRAWN BY A. KINCAID</td><td>DATE 01/04/08</td><td colspan="4">TITLE</td></tr><tr><td></td><td></td><td colspan="2">xxx ± xx ±.02 x ±</td><td>CHECKER K. WALLACE</td><td>MECH ENG</td><td colspan="4">LABEL, GENERIC, 1.4X2.3 IN</td></tr><tr><td></td><td></td><td colspan="2">ANGLES ±</td><td>DES APPL</td><td>ELEC ENG</td><td colspan="4"></td></tr><tr><td></td><td></td><td colspan="2"></td><td>PROD ENG</td><td>RF ENG</td><td colspan="2">B</td><td>DRAWING NO. 65-000012</td><td>MFG CODE 01</td></tr><tr><td></td><td></td><td colspan="2"></td><td>QA</td><td></td><td colspan="2"></td><td>REV 01</td><td></td></tr><tr><td>USED ON</td><td>NEXT ASSY</td><td colspan="2"></td><td colspan="2">SCALE 1:1</td><td colspan="2">SHEET</td><td colspan="2">OF</td></tr></table>												UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISHING				411 LEGGET DRIVE, SUITE 600, KANATA, ONTARIO, K2K 3C9						TOLERANCES:		DRAWN BY A. KINCAID	DATE 01/04/08	TITLE						xxx ± xx ±.02 x ±		CHECKER K. WALLACE	MECH ENG	LABEL, GENERIC, 1.4X2.3 IN						ANGLES ±		DES APPL	ELEC ENG									PROD ENG	RF ENG	B		DRAWING NO. 65-000012	MFG CODE 01					QA				REV 01		USED ON	NEXT ASSY			SCALE 1:1		SHEET		OF	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISHING				411 LEGGET DRIVE, SUITE 600, KANATA, ONTARIO, K2K 3C9																																																																									
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DWG NO. 65-000028

SH 1

REVISIONS		
REV	DESCRIPTION	DATE
A	ORIGINAL ISSUE	12/19/03

NOTES:

1. THIS DRAWING DONE AS A NEGATIVE IMAGE. CHARACTERS AND BORDER ARE TO BE WHITE ON BLACK BACKGROUND.
2. REQUIREMENTS:

- MINIMUM LIFESPAN 5-7 YEARS

- THIS LABEL IS INTENDED FOR OUTDOOR APPLICATIONS AND SHALL MEET THE FOLLOWING ENVIRONMENTAL REQUIREMENTS:

- TEMPERATURE: -40 DEG C TO 100 DEG C

- UV RESISTANT

- RAIN AND SALT FOG RESISTANT

- FUNGUS RESISTANT

- CHEMICAL RESISTANCE IN ACCORDANCE WITH BELLCORE GR-2834 AND ETSI 300-019-1-4.

- COMPATIBLE WITH POWDER COAT AND SPRAY ENAMEL PAINT

3. UNLESS OTHERWISE SPECIFIED, ALL LETTERING TO BE .05 INCH HIGH GOTHIC, SPACING APPROXIMATELY AS SHOWN.
5. FINISHED ITEM TO BE BAGGED AND TAG IDENTIFIED WITH "65-000028-01-XX" WHERE "XX" IS THE MANUFACTURING CODE SHOWN ON THE TITLE BLOCK OF THIS DRAWING.
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- PART NUMBER 65-000028-01-01
- | | | | | | | | |
|---------|-----------|---|------------------------|------------------|---|--|--|
| | | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISHING | DRAWN BY
A. KINCAID | DATE
01/04/08 |  | 411 LEGGET DRIVE, SUITE 600,
KANATA, ONTARIO, K2K 3C9 | |
| | | | | | | | |
| | | TOLERANCES:

XXX ±
XX ± .02
X ± | CHECKER | MECH ENG | TITLE | | |
| | | | DES APPL | ELEC ENG | LABEL, FCC, PART 15 | | |
| | |  | PROD ENG | RF ENG | B | DRAWING NO. 65-000028 | |
| | | | QA | | | | |
| USED ON | NEXT ASSY |  | | SCALE 1:1 | | | |
| | | | SHEET 1 OF 1 | | | | |