

8

7

6

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4

3

2

DWG. NO. 05A-0030-01

REV 0

REVISION HISTORY

ZONE	REV	DESCRIPTION	APPR	DATE
ALL	0	RELEASE FOR PROTOTYPE		

NOTES:

5-POT ALL CONNECTORS AFTER FULL TEST

1

APPLY HEATSINK THERMAL COMPOUND

2

PROGRAM RADIO USING PROGRAM PROCEDURE XXXX.

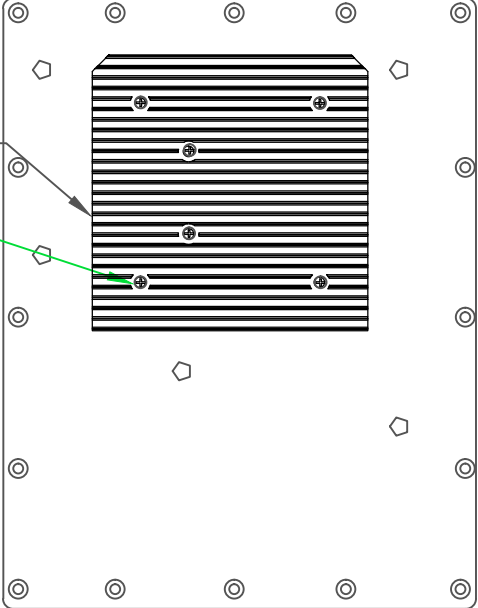
3

APPLY HEAT THERMAL COMPOUND AND THERMAL PAD TO MICONROLLER PN: BER222-ND (THERMAL PAD).

4-APPLY LOCTITE ON ALL SCREWS.

1

LID: TOP VIEW



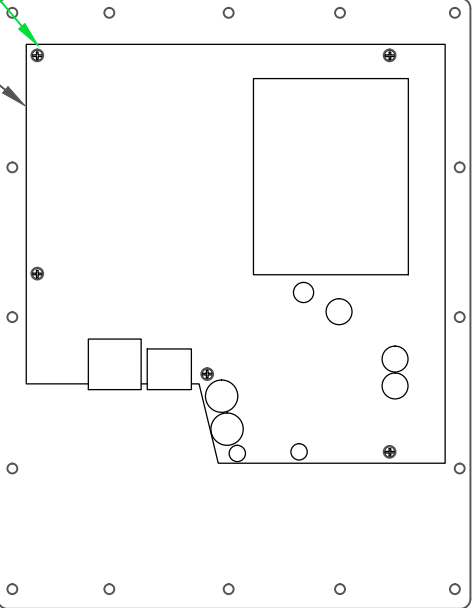
30

1S

5

5

LID: BOTTOM VIEW



30

1S

5

6

2N	2	96278A007	MCMaster Carr	NUT, #6-32 WITH TOOTH WASHER	EA
1N	4	91831A005	MCMaster Carr	NUT, LOCKING, INSERT NYLON #4-40	EA
4S	19	93085A109	MCMaster Carr	SCREW, 4-40 X7/16L, FH, 100 DEGREES	EA
3S	8	91771A145	MCMaster Carr	SCREW, 6-32 X5/16L, FH, 82 DEGREES	EA
2S	4	91735A104	MCMaster Carr	SCREW, 4-40 X3/8L, PPH	EA
1S	15	91772A106	MCMaster Carr	SCREW, 4-40 X1/4L, PPH	EA
ITEM NO.	QTY	PART NO.	MFG:	DESCRIPTION	U/M
HARDWARE					

30	NA	5	92510A692	MCMaster Carr	SPACER, FEMALE UNTHREADED ROUND X 1 /4	EA
29	NA	1	J970-ND	DIGI-KEY	CABLE, RF RADIO	EA
28	NA	12	10086-18-7	AWC INC	WIRE, TEFLON, STRANDED, BLK	IN
27	NA	12	10086-18-7	AWC INC	WIRE, TEFLON, STRANDED, RED	IN
25	NA	70	10086-20-7	AWC INC	WIRE, TEFLON, STRANDED, RED	IN
24	NA	70	10086-20-7	AWC INC	WIRE, TEFLON, STRANDED, BLK	IN
23	NA	6	A28270-ND	DIGI-KEY	TERMINAL , RING #6	EA
22	NA	1	22820	CABLESTOGO	CABLE, CAT5E, 1 FOOT	EA
21	NA	8	WM2573-ND	DIGI-KEY	CONN TERM FEMALE 22-24AWG GOLD	EA
20	NA	4	WM2900-ND	DIGI-KEY	CONN HOUSING FEMALE 2POS .100	EA
19	NA	8	WM2567-ND	DIGI-KEY	CONN TERM MALE 22-24AWG GOLD	EA
18	NA	4	WM2533-ND	DIGI-KEY	CONN HOUSING MALE 2POS .100	EA
17	NA	1	04A-0023	UAVS	LABEL, OMNI, DIRECTIONAL, GIMBAL	EA
16	NA	1	2118-1112	MACHINED	GASKET, LID	EA
15	NA	2	MINIBEND L-10	ASTROLAB	CABLE, SMA PLUG-SMA PLUG, 10 INCHES	EA
14	NA	2	MINIBEND L-6	ASTROLAB	CABLE, SMA PLUG-SMA PLUG, 6 INCHES	EA
13	NA	2	607-7026	ALLIED ELEC	JUMPER, TERMINAL BLOCK	EA
12	NA	1	063A-0003	MANUFACTURED	PCB, TRACKER BOARD	EA
11	NA	1	MS3112E14-19P	PEI GENESIS	CONNECTOR, MIL-SPEC	EA
10	NA	2	PE9252	PASTERNAK	ADAPTOR, SMA TO N-TYPE BULKHEAD	EA
9	NA	1	06A-0049-00	MACHINED	CHASSIS, TRACKER BOX	EA
8	NA	2	242113	CONNEX	ADAPTOR, SMA FEMALE TO N-TYPE	EA
7	NA	1	242114	CONNEX	ADAPTOR, SMA MALE TO N-TYPE	EA
6	NA	1	WM5761-ND	DIGI-KEY	TERMINAL BLOCK 4 POS	EA
5	NA	1	2N1A31	DUCOMMUN	RF, SWITCH SPDT	EA
4	NA	2	12-603	TELTRONICS INC.	AMPLIFIER, LNA 5.2 GHZ 3 POLE	EA
3	NA	1	738571	PROXIM	MODIFIED,PCB, RADIO GEN 1	EA
2	NA	1	2088-3124	MACHINED	HEATSINK, TRACKER BOX	EA
1	NA	1	06A-0049-01	MACHINED	LID, TRACKER BOX	EA
ITEM NO.	WIRE DIAGRAM REF.	QTY	PART NO.	MFG:	DESCRIPTION	U/M
BILL OF MATERIALS						

GEN2 ROTATOR

USED ON

APPLICATION

THIRD ANGLE PROJECTION IN ACCORDANCE WITH ASME Y14.5

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGULAR +/- 5 BEND +/- .3 TWO PLACE DECIMAL +/- .05 THREE PLACE DECIMAL +/- .001

ORIG. ENG. SKTCH NO.:

INITIALS DATE

DRAFTER: RGB 05/31/11

CHECKER:

ENG. APPR:

WORKMANSHIP PER QOP ISO STD 001-XXX

8280 PATUXENT RANGE RD. SUITE E JESSUP, MD 20794 PHONE: 240-456-0195 EMAIL: INFO@UAV-SOLUTIONS.COM

TITLE: TRACKER BOX ASSEMBLY

SIZE B

DWG. NO. 05A-0030-01

REV 0

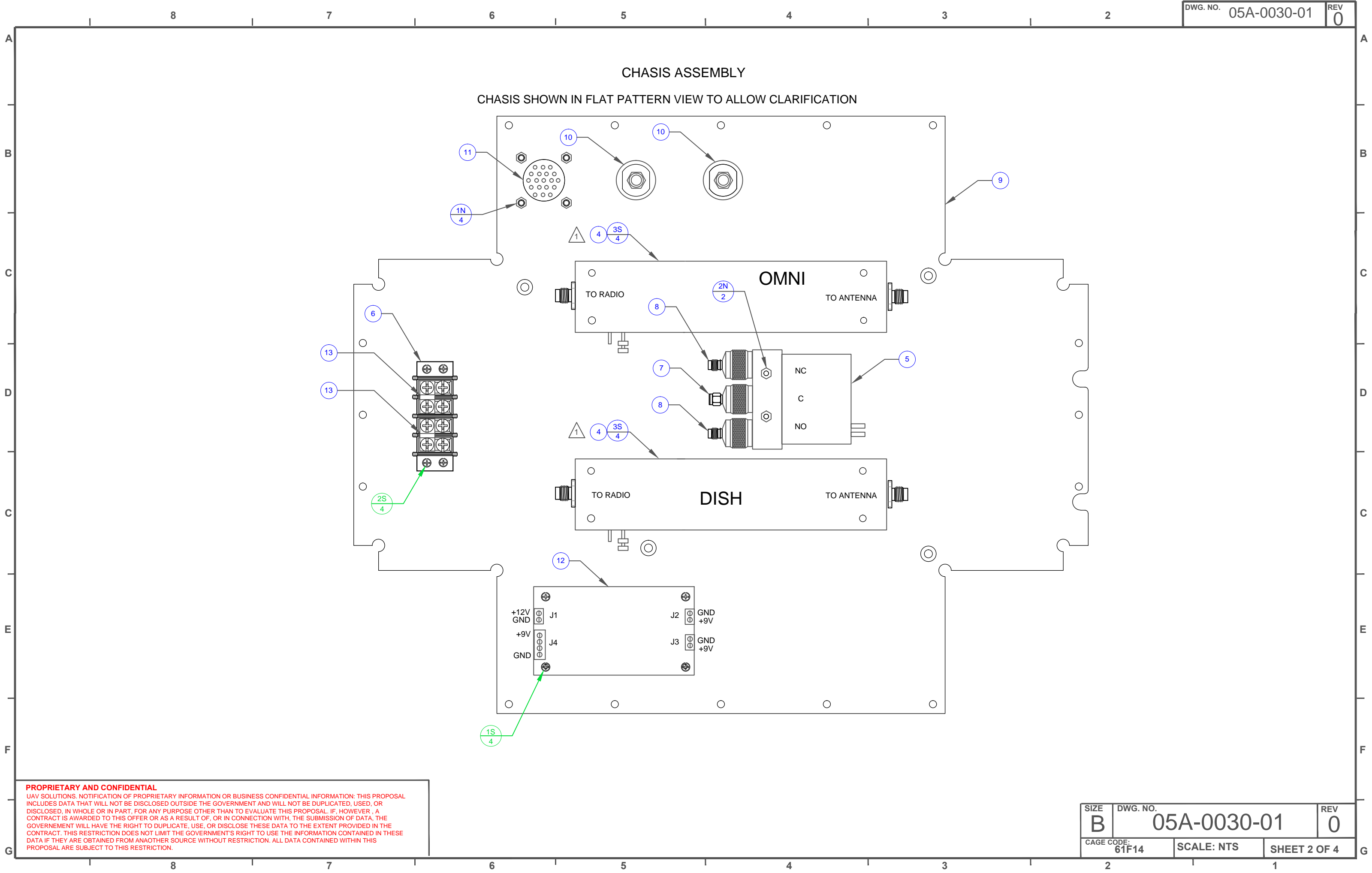
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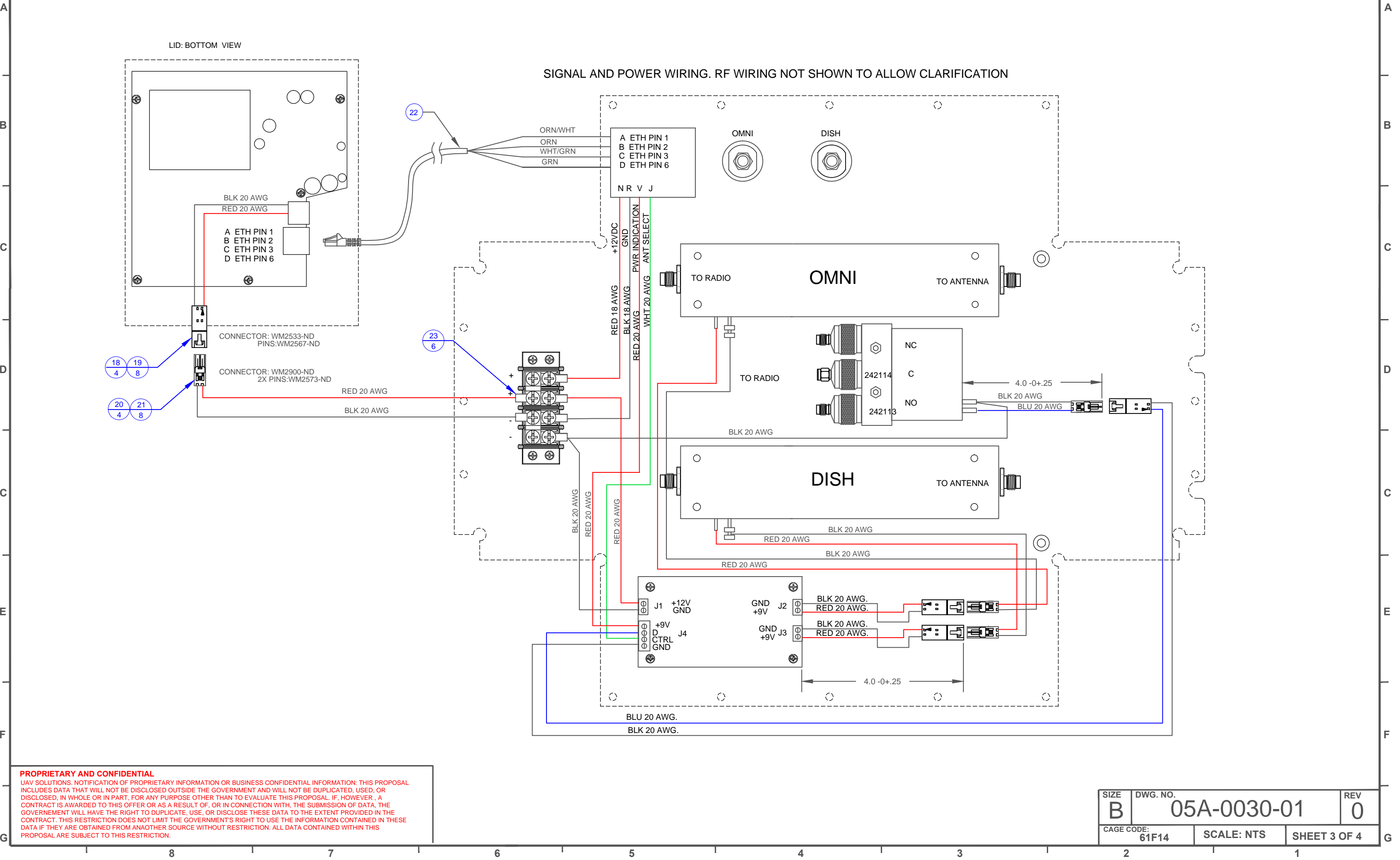
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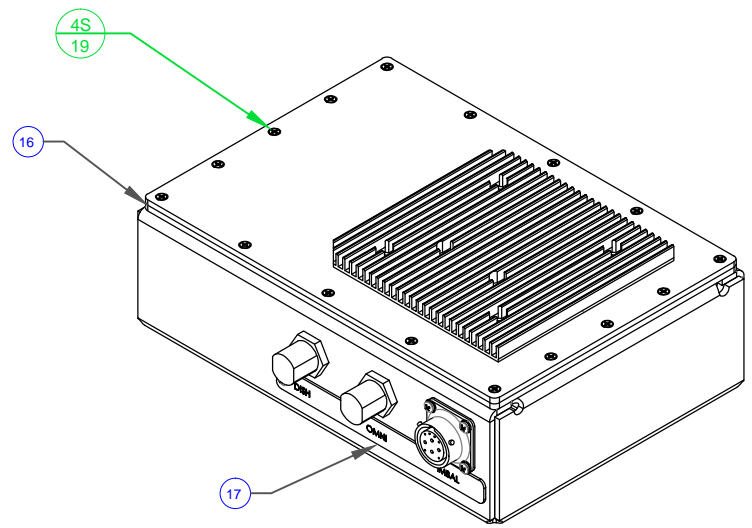
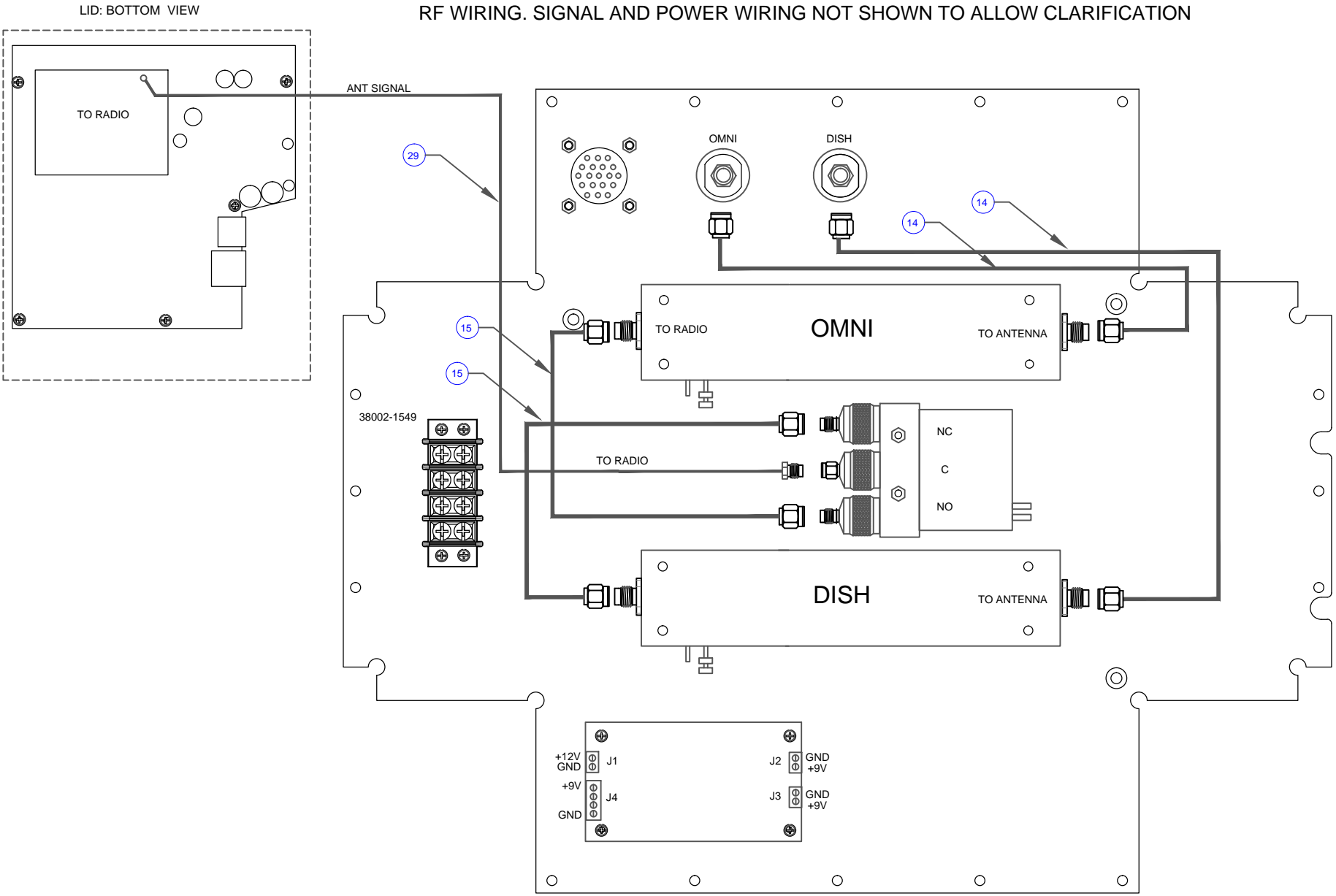
SHEET 1 OF 4

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