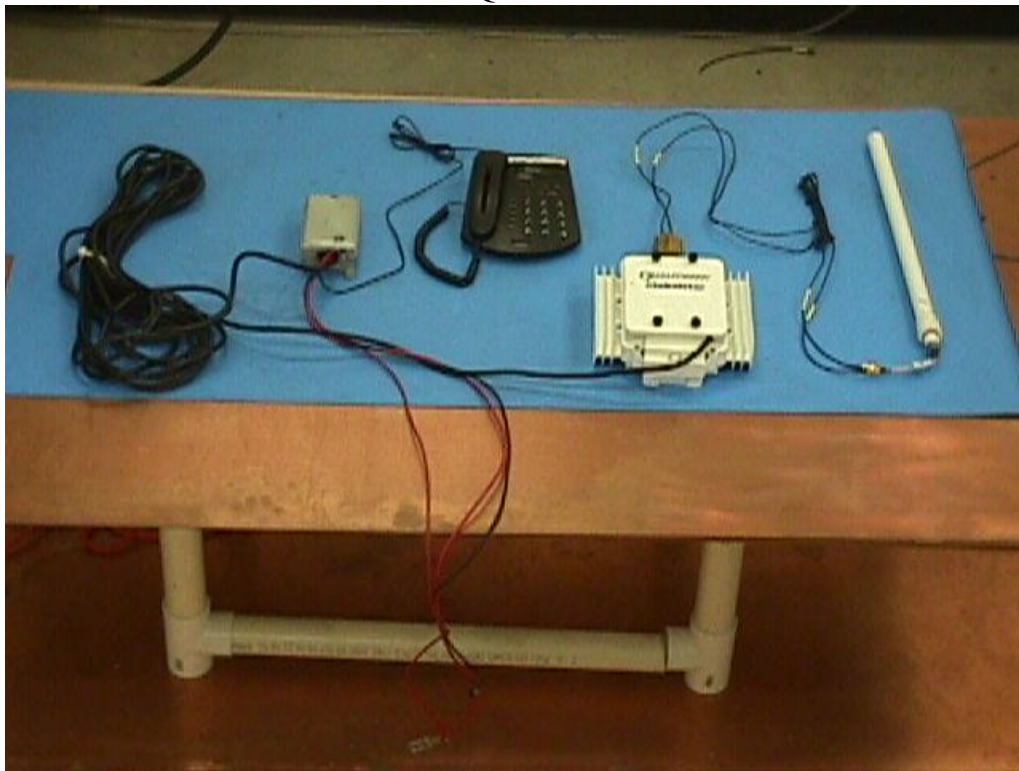


Exhibit 9 External Photos

9.1 General External Photos

GSP-2800RA with Quadrifilar Helix Antenna



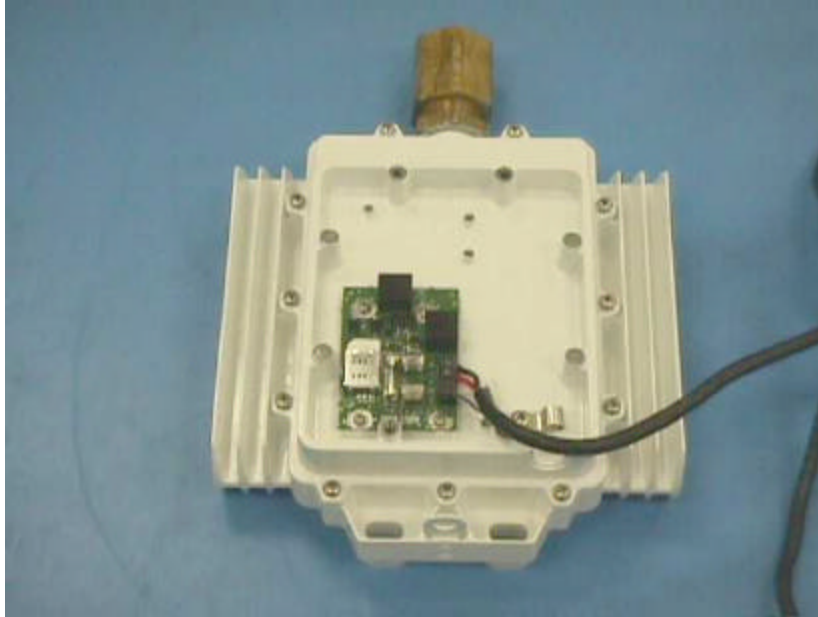
GSP-2800RA with DRA Antenna



Deskset



Front View RAU



Rear View RAU



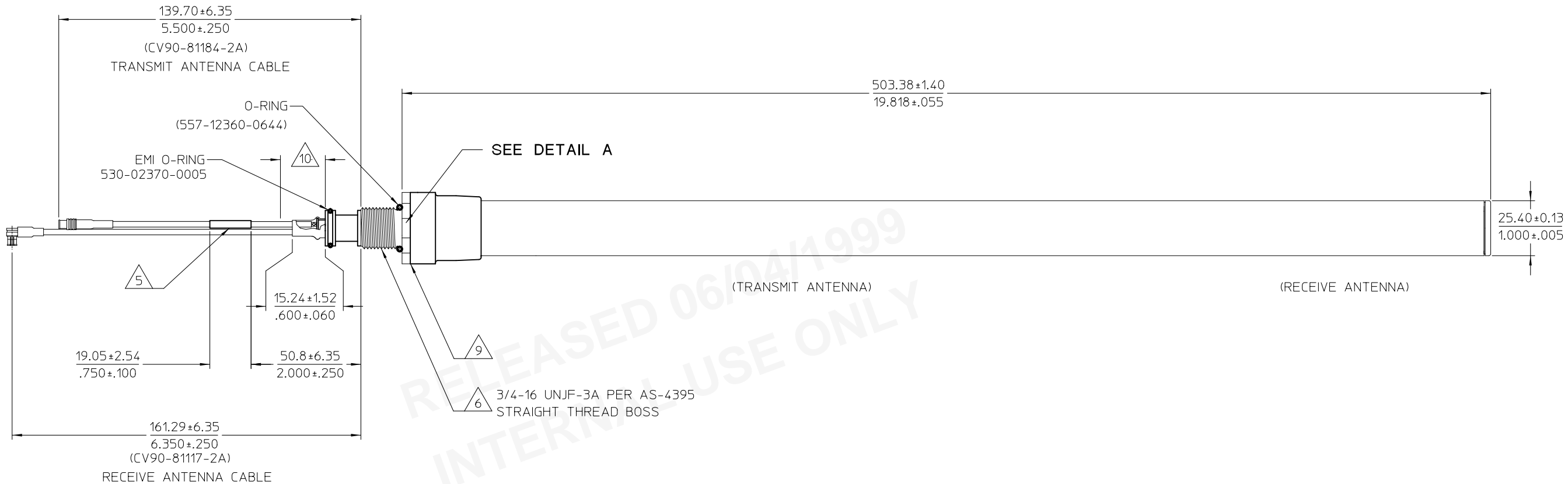
9.2 Helical Antenna Photos/Drawings

Quadrifilar Helix Antenna



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REV	DESCRIPTION				DATE	APPROVED
X6	SEE SHEET 1					



CV90-70842-4



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6455 LUSK BOULEVARD	SAN DIEGO, CA 92121-2779	SIZE	D	CAGE CODE	1DN14	DRAWING NO	80-81099-1	REV	X6
		SCALE	NONE				SHEET 3		

9.3 DRA Antenna Photos/Drawings

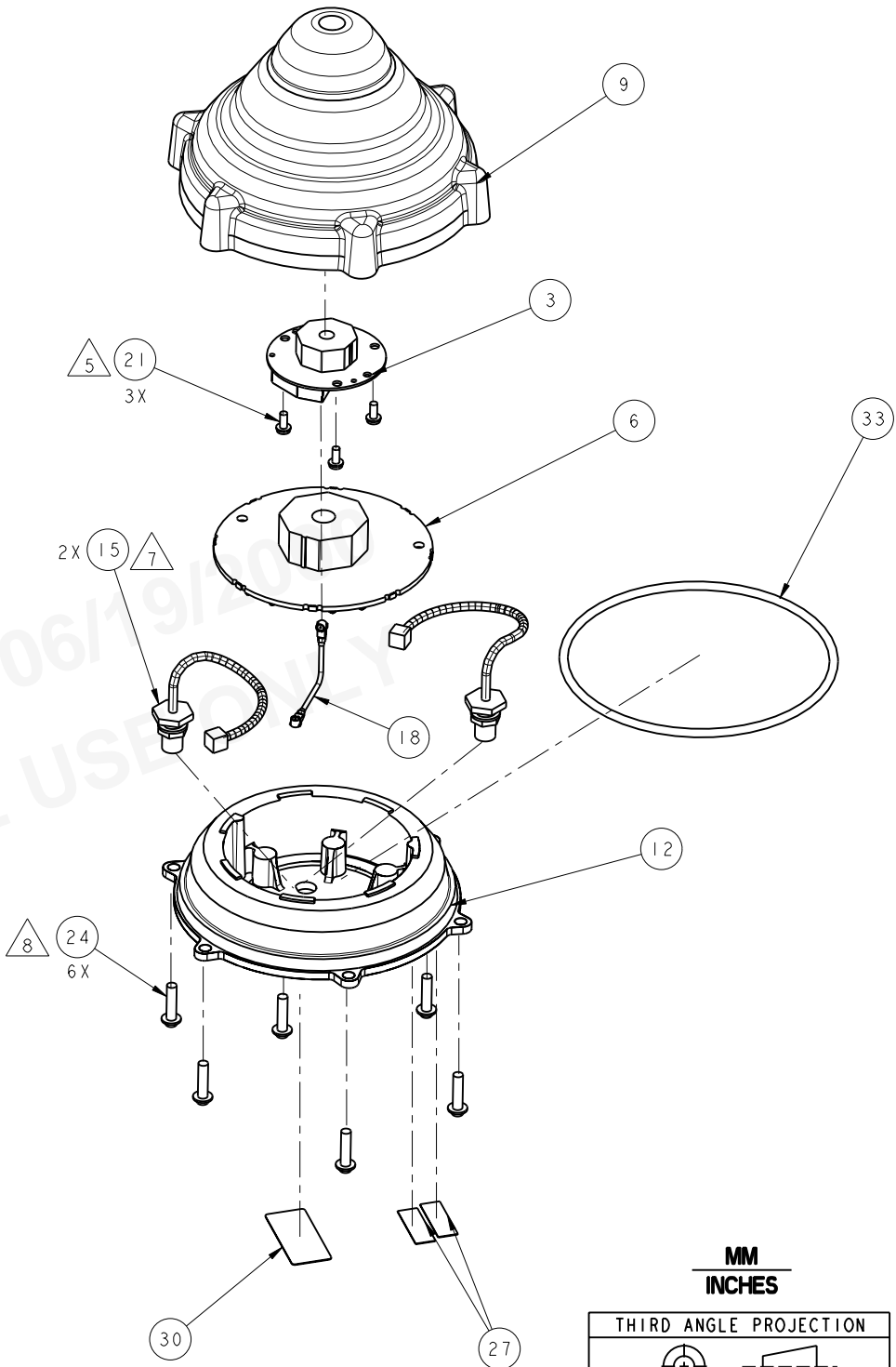
DRA Antenna



NAME:EFRCUSER OBJECT:10-82283_1 DATE:19-Jun-00 10:34:04

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REVISIONS				
REV	DESCRIPTION		DATE	APPROVED
XI	SEE DCR 34000		3/22/00	-



- 9 LOCATE ITEM 27 (LABEL) AND ITEM 30 (LABEL) WHERE SHOWN.
- 8 INSTALL ITEM 24 (SCREW), 6PL. TORQUE ITEM 24 (SCREW) TO 7LBS/IN #0.7LBS/IN.
- 7 TORQUE SMA CONNECTOR TO 15LBS/IN 2LBS/IN TO ITEM 12 (BASE).
- 6 ENSURE ITEM 15 (CABLE ASSY'S), 2PL, PASS THRU CORRECT LABELLED D-HOLE.
- 5 INSTALL ITEM 3 (CCA, RX) TO ITEM 9 (RADOME) USING ITEM 28 (SCREW), 3PL. TORQUE ITEM 21, 3PL, TO 2.5LBS/IN ± 0.5 LBS.
4. WORKMANSHIP SHALL BE IN ACCORDANCE WITH QUALCOMM MECHANICAL WORKMANSHIP STANDARD 80-10767-1.
3. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M-1994.
2. MILLIMETERS (MM) ARE THE CONTROLLING DIMENSIONS ON THIS DRAWING. INCH DIMENSIONS ARE FOR REFERENCE ONLY.
1. INTERPRET DRAWING PER MIL-STD-10.

NOTES: UNLESS OTHERWISE SPECIFIED

MODEL INFORMATION		
CAD TOOL: PRO/ENGINEER VER. <20>		
NAME	REVISION	VERSION
10-82283-1	XI	0+

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SEE SEPARATE PARTS LIST:
10-82283-1

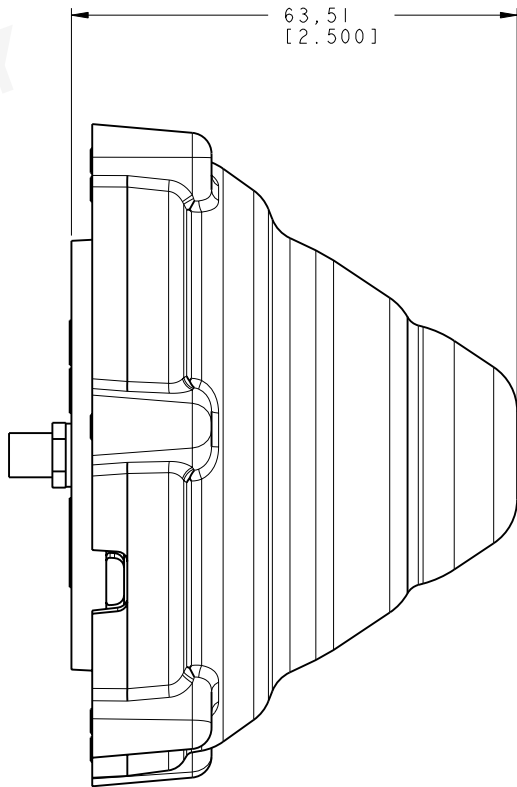
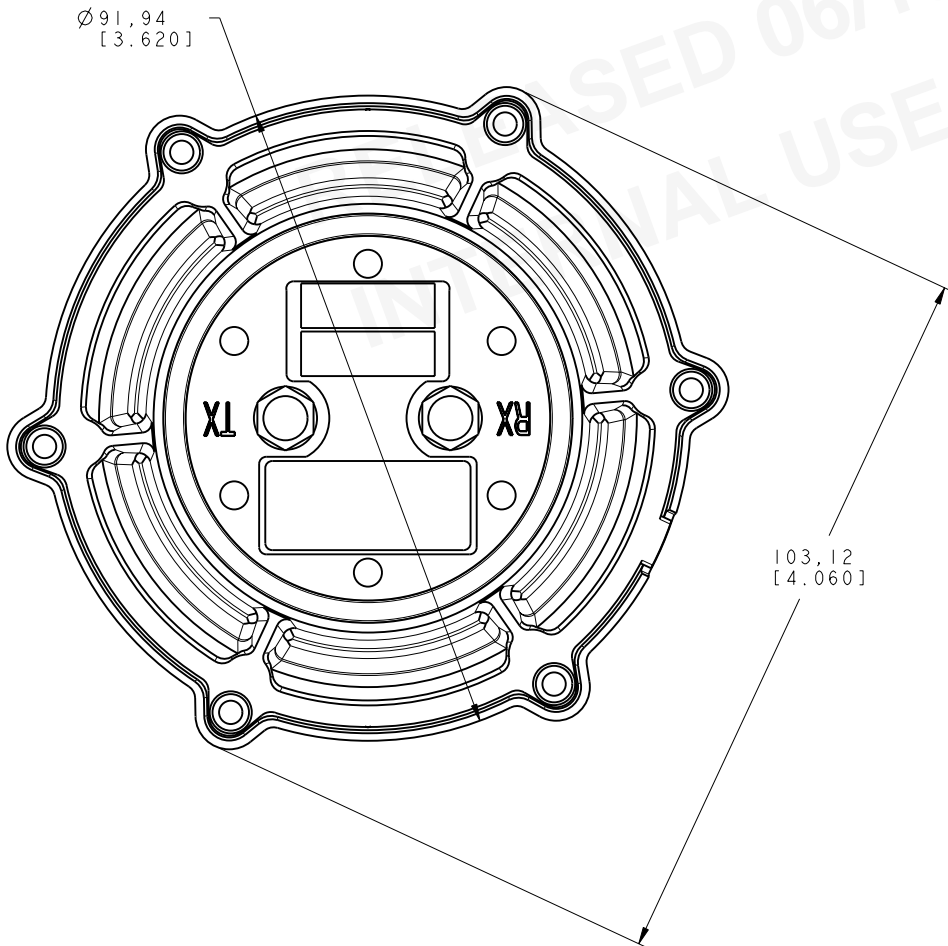
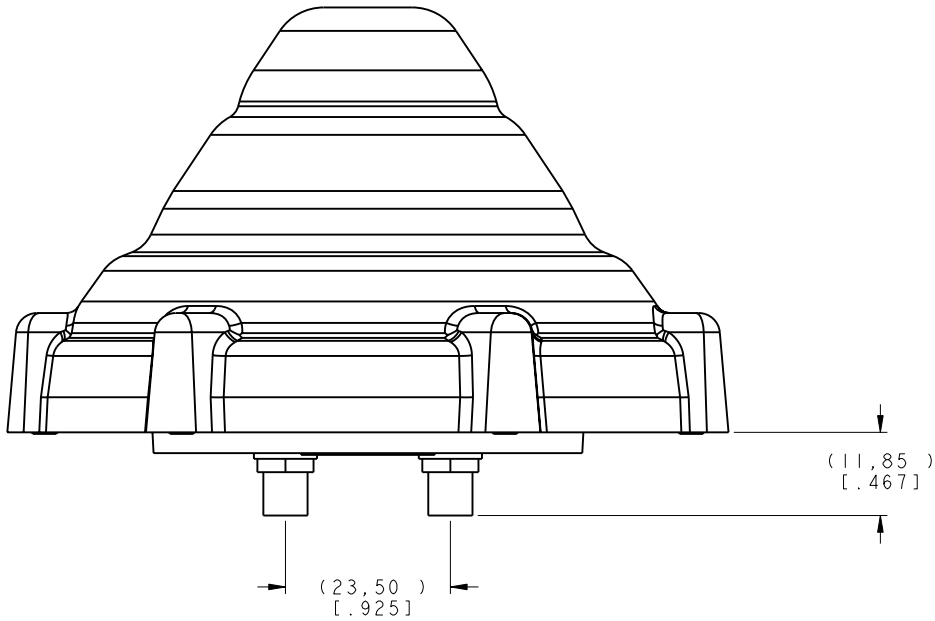
MM INCHES	
THIRD ANGLE PROJECTION	
UNLESS OTHERWISE SPECIFIED	
DIMENSION UNITS ARE AS NOTED/PER NOTE 2 AND APPLY AFTER SURFACE TREATMENT	
TOLERANCES	
MM	INCHES
LINEAR	ANGULAR
X ± 2.5	.1 $\pm .1$
X.X ± 0.76	.XX $\pm .03$
X.XX ± 0.25	.XXX $\pm .010$
HOLE DIAMETERS	
MM	INCHES
0.34 - 6.35	$+0.13 - 0.03$.013 - .250 $+0.005 - .001$
6.37 - 12.70	$+0.15 - 0.03$.251 - .500 $+0.006 - .001$
12.72 - 25.40	$+0.25 - 0.03$.501 - 1.000 $+0.010 - .001$

CONTRACT NO.	NONE	DATE	5/30/00
DRW	N. BURNS	CHK	READ SIG ON FILE
ENG		ENG	
P.E.		P.E.	
MFG		MFG	
QUALCOMM		5775 MOREHOUSE DRIVE SAN DIEGO, CA 92121-1714	
ODU, GLOBALSTAR MODULE		TITLE	
SIZE	CAGE CODE	DRAWING NO	REV
D	IDN14	10-82283	XI
SCALE	1.000	SHEET 1 OF 5	

NAME:EFRCUSER OBJECT:10-82283_2 DATE:19-Jun-00 10:34:10

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REVISIONS					
REV	DESCRIPTION			DATE	APPROVED
XI	SEE SHEET I			---	-----



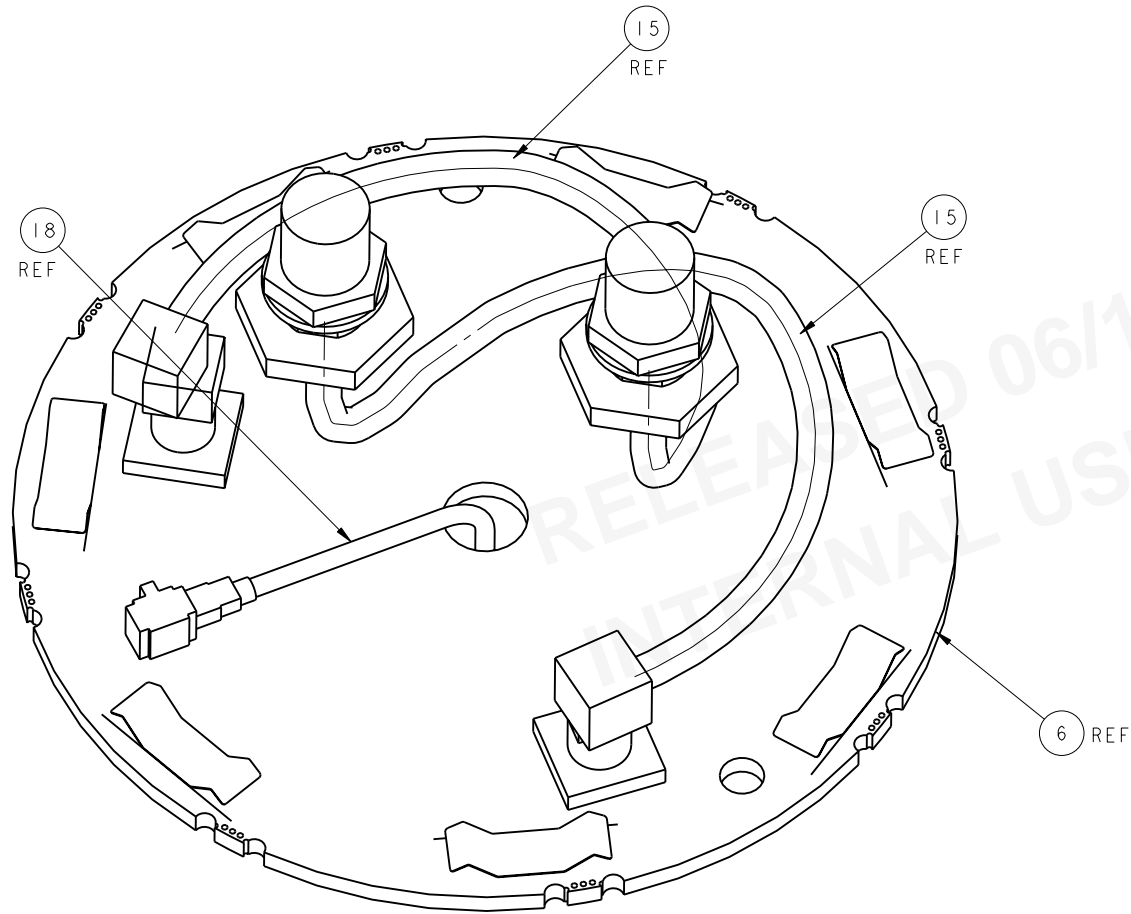
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5775 MOREHOUSE DRIVE	SAN DIEGO, CA 92121-1714	SCALE 1:000	SHEET 2 OF 5
SIZE D	CAGE CODE IDN14	DRAWING NO 10-82283	REV XI
VER 0+			

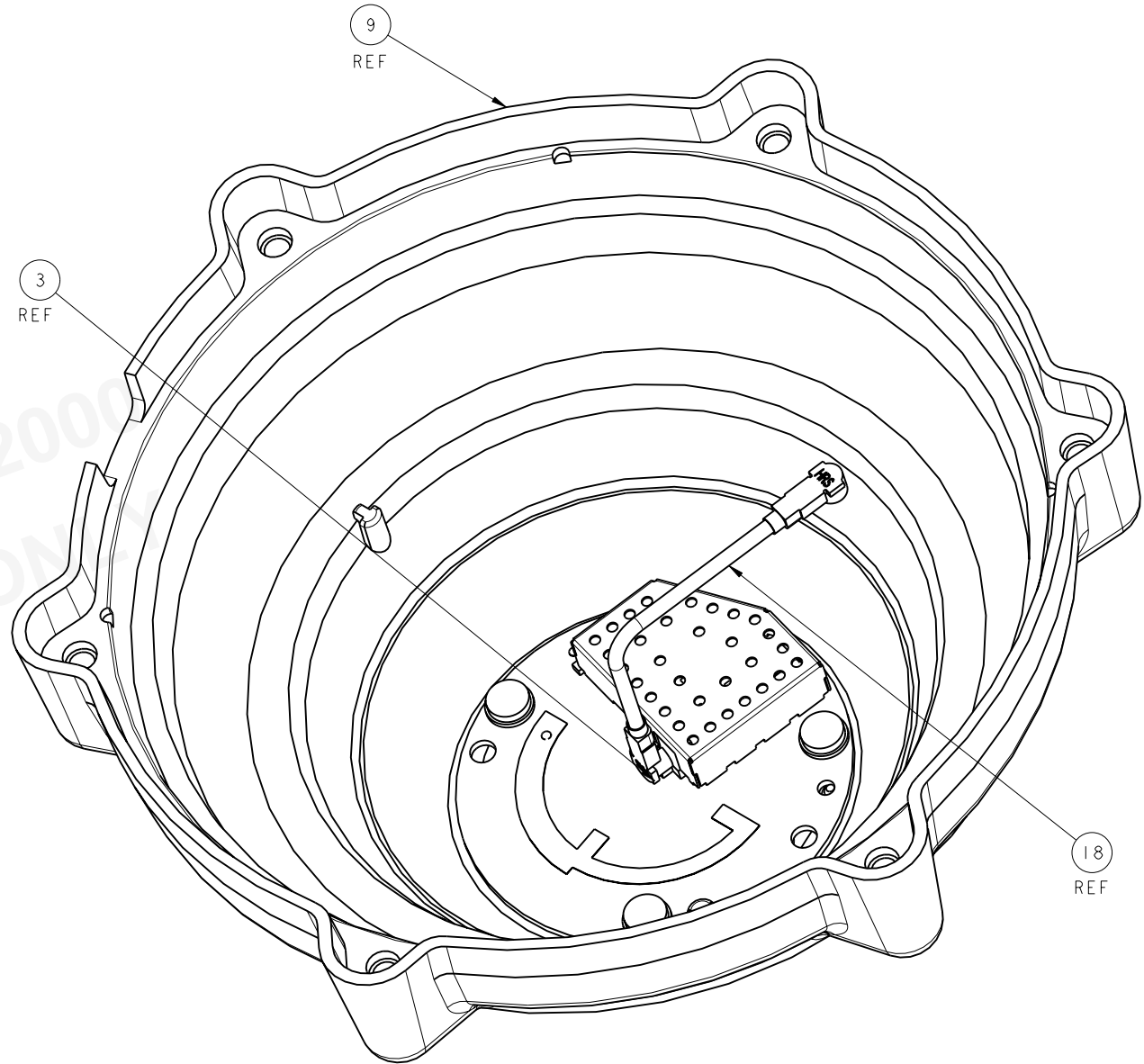
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REVISIONS					
REV	DESCRIPTION			DATE	APPROVED
XI	SEE SHEET I			---	-----



VIEW SHOWING CABLE
ORIENTATION ON TX BOARD



VIEW SHOWING CABLE
ASSY TERMINATION AT RX BOARD



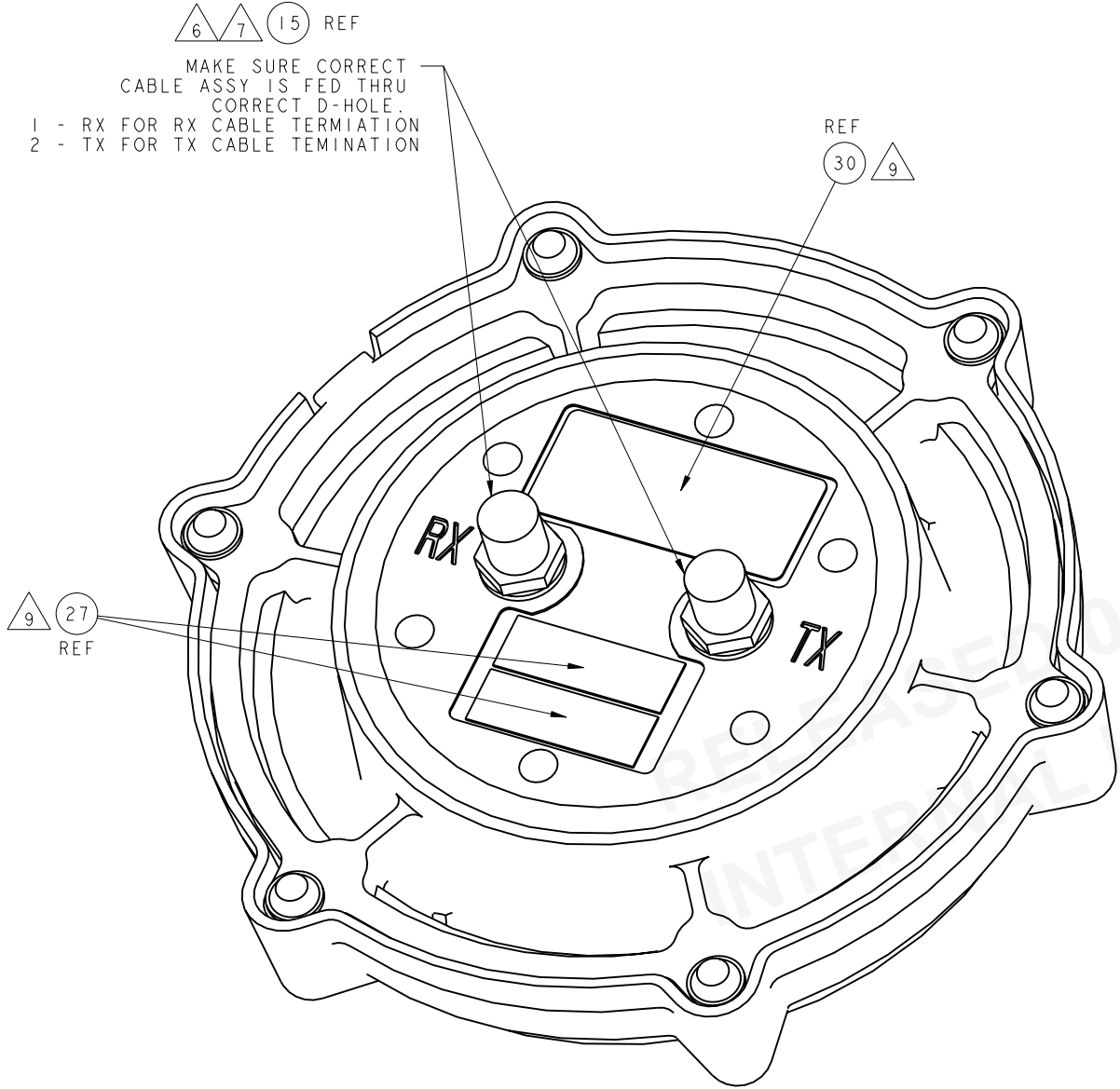
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SIZE	CAGE CODE	DRAWING NO	REV	VER
D	IDN14	10-82283	XI	0+
SCALE 4.000		SHEET 3 OF 5		

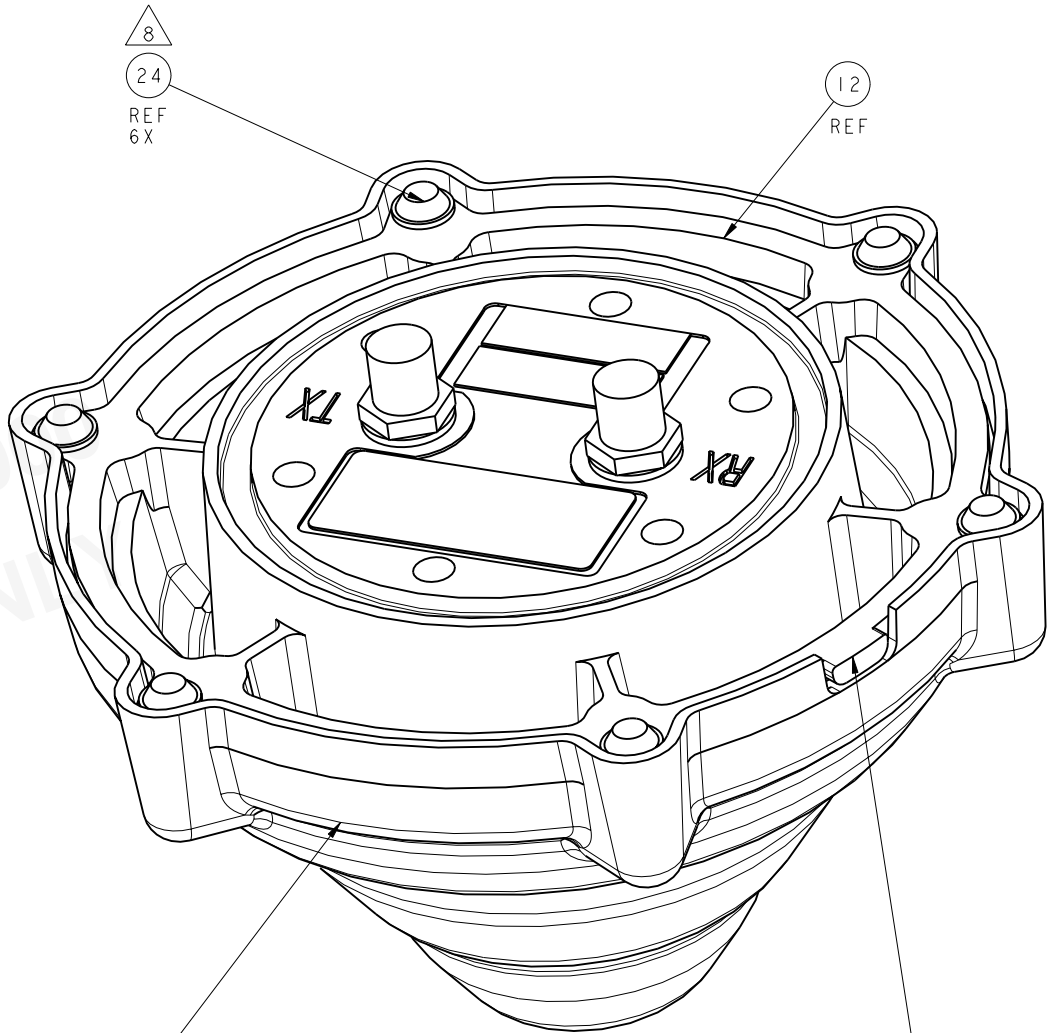
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REVISIONS					
REV	DESCRIPTION			DATE	APPROVED
XI	SEE SHEET I			---	-----

MAKE SURE CORRECT
CABLE ASSY IS FED THRU
CORRECT D-HOLE.
1 - RX FOR RX CABLE TERMINATION
2 - TX FOR TX CABLE TEMINATION



VIEW SHOWING LABEL
PLACEMENT AND SMA ORIENTATION



VIEW SHOWING ALIGNMENT
OF BASE TO RADOME



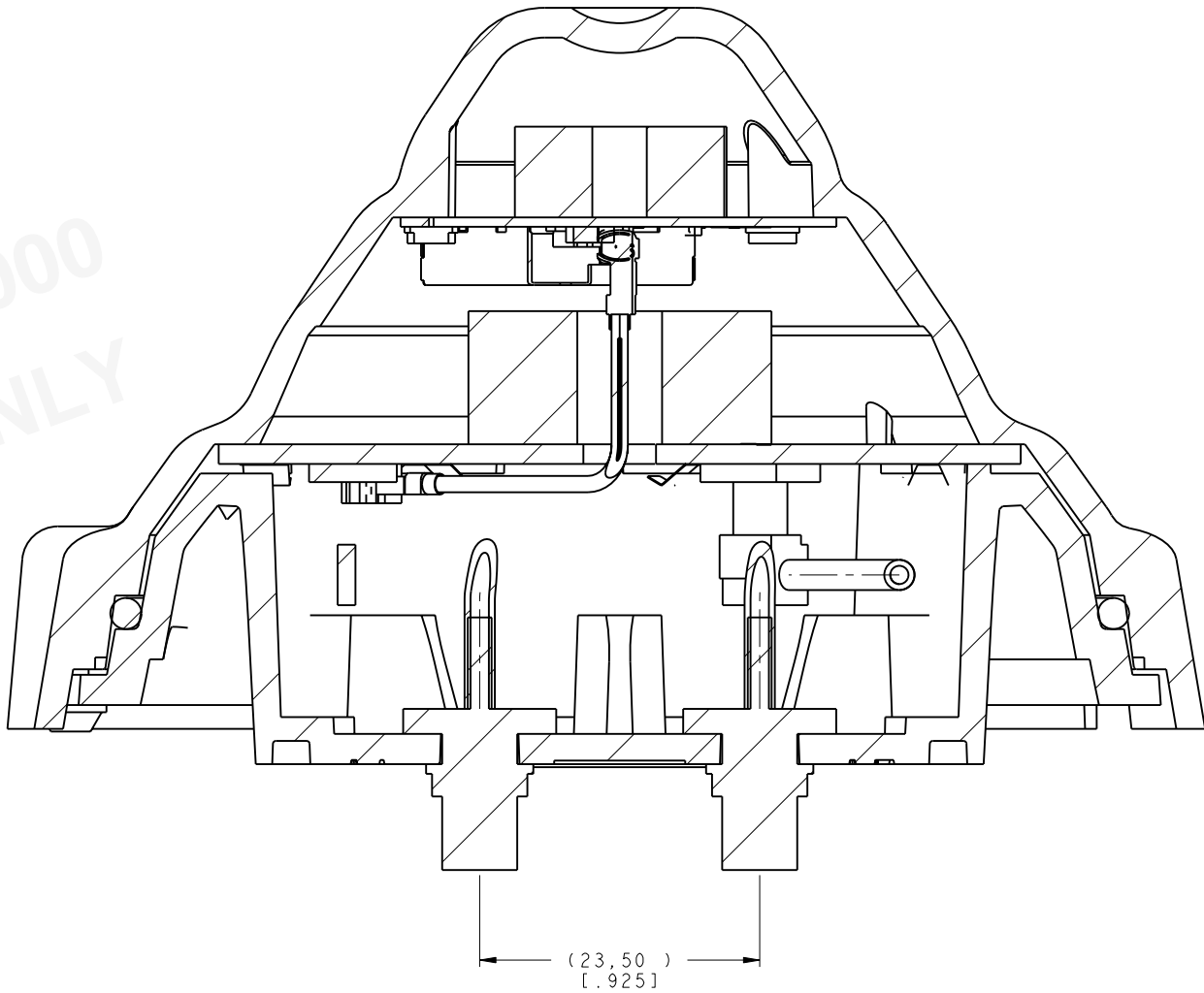
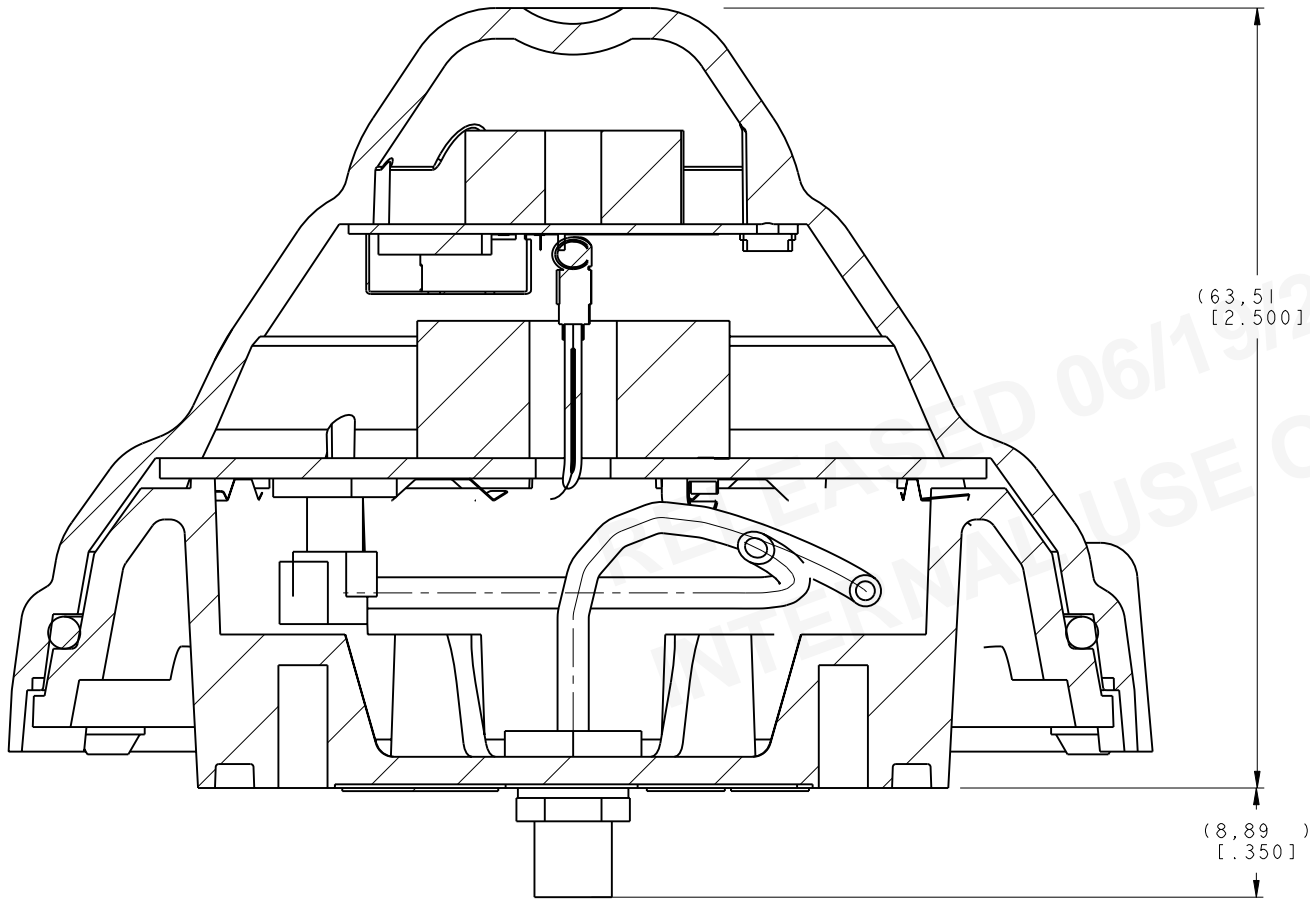
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		D	IDN14	10-82283	XI	0+
SCALE 3.000		SHEET 4 OF 5				

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REV	DESCRIPTION				DATE	APPROVED
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		D	IDN14	10-82283	XI	0+
SCALE 1.000		SHEET 5 OF 5				