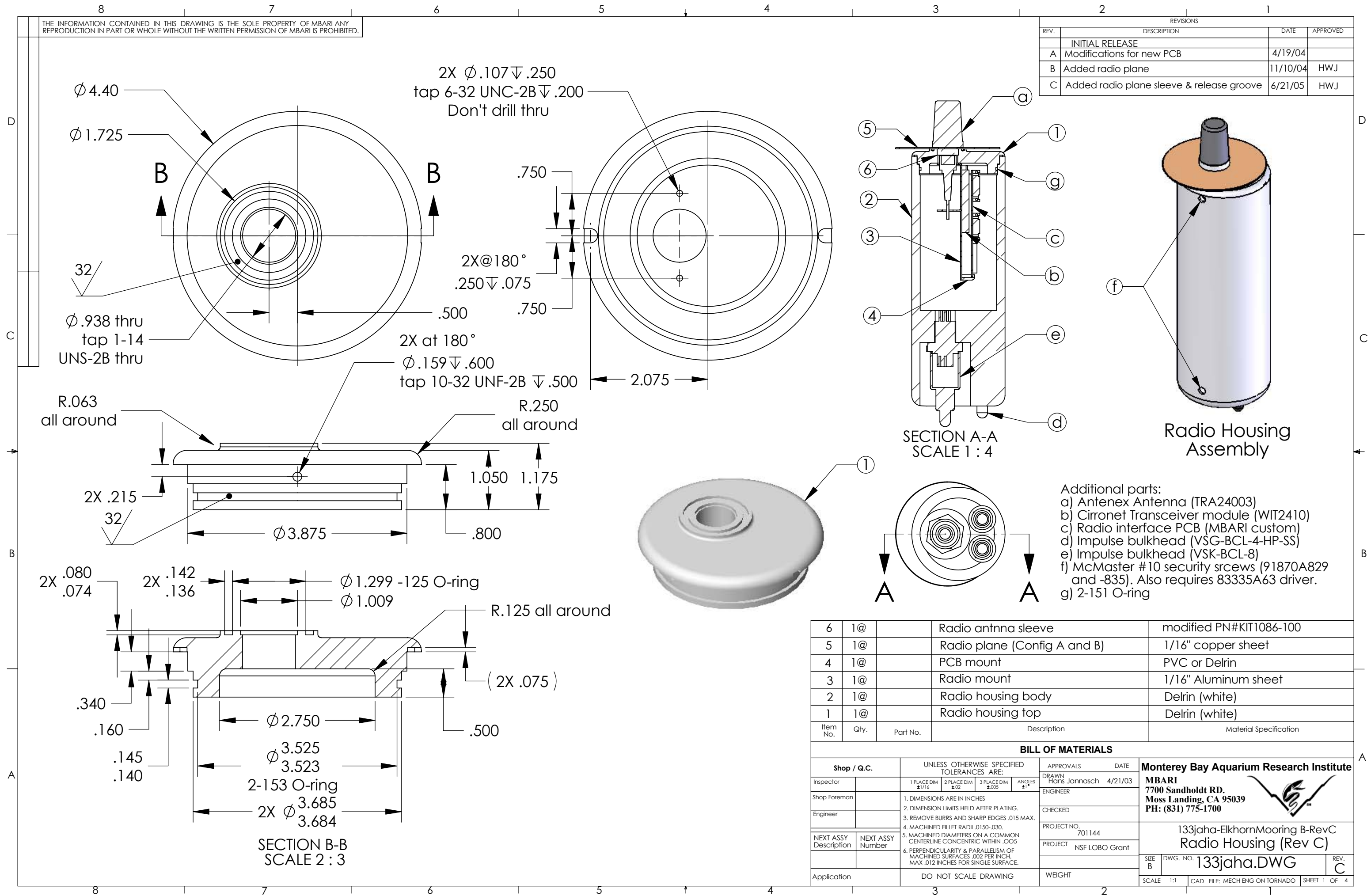




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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modifications for new PCB	4/19/04	
B	Added radio plane	11/10/04	HWJ
C	Added radio plane sleeve & release groove	6/21/05	HWJ

- Additional parts:
- a) Antenex Antenna (TRA24003)
 - b) Cirronet Transceiver module (WIT2410)
 - c) Radio interface PCB (MBARI custom)
 - d) Impulse bulkhead (VSG-BCL-4-HP-SS)
 - e) Impulse bulkhead (VSK-BCL-8)
 - f) McMaster #10 security screws (91870A829 and -835). Also requires 83335A63 driver.
 - g) 2-151 O-ring

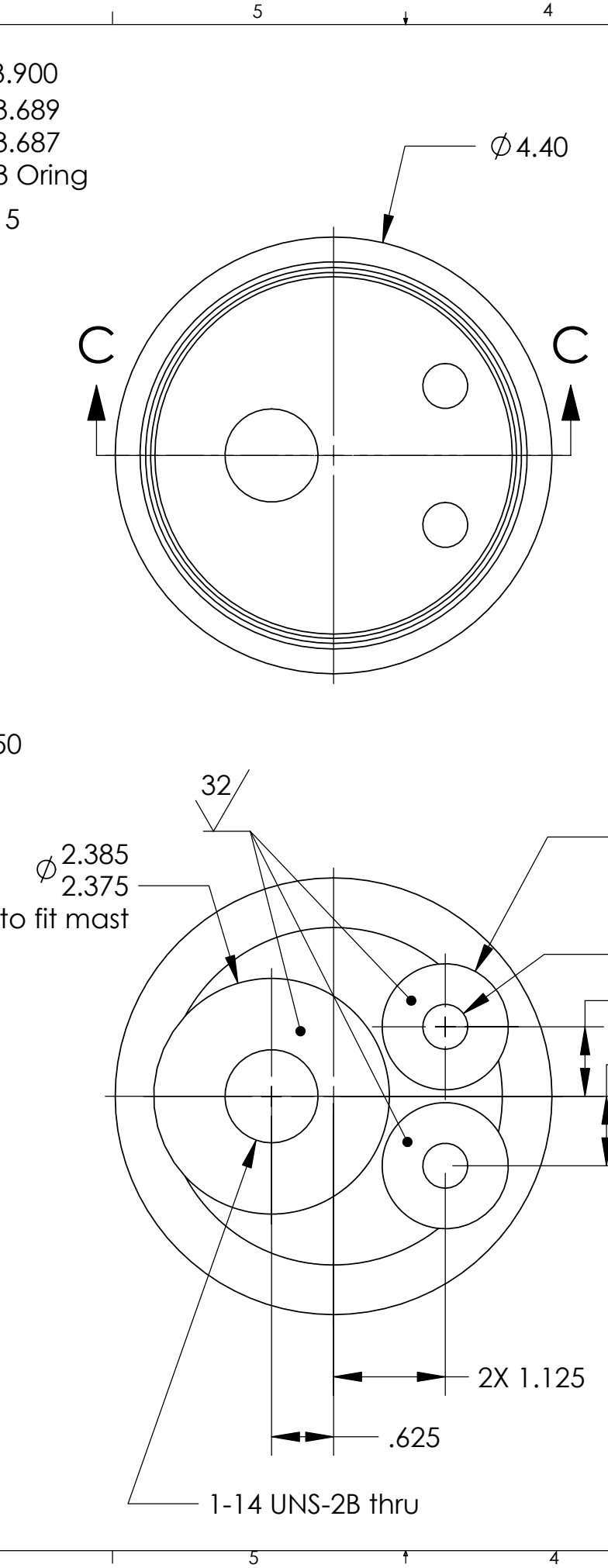
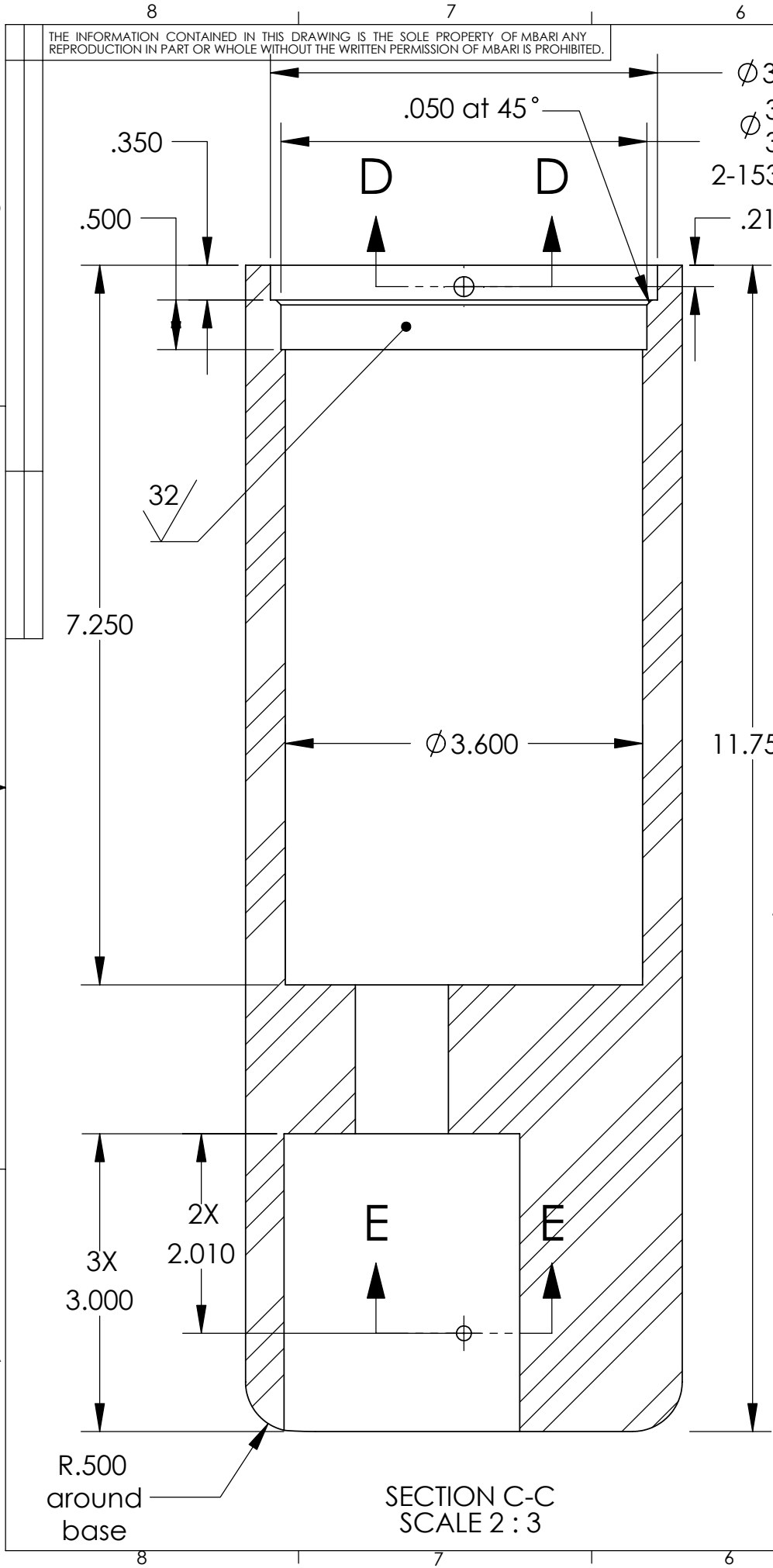
6	1@		Radio antenna sleeve	modified PN#KIT1086-100
5	1@		Radio plane (Config A and B)	1/16" copper sheet
4	1@		PCB mount	PVC or Delrin
3	1@		Radio mount	1/16" Aluminum sheet
2	1@		Radio housing body	Delrin (white)
1	1@		Radio housing top	Delrin (white)
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02
Shop Foreman		3 PLACE DIM ±.005	ANGLES ±1°
Engineer		1. DIMENSIONS ARE IN INCHES	
		2. DIMENSION LIMITS HELD AFTER PLATING.	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.	
		4. MACHINED FILLET RADII .015-.030.	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.	
Application		DO NOT SCALE DRAWING	
		APPROVALS	DATE
		DRAWN Hans Jannasch	4/21/03
		ENGINEER	
		CHECKED	
		PROJECT NO.	701144
		PROJECT	NSF LOBO Grant
		WEIGHT	
		SIZE B	DWG. NO. 133jaha.DWG
		SCALE 1:1	CAD FILE: MECH ENG ON TORNADO
		SHEET 1 OF 4	REV. C

Monterey Bay Aquarium Research Institute
MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700

133jaha-Elkhorn Mooring B-RevC
Radio Housing (Rev C)

133jaha.DWG



REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modifications for new PCB	4/19/04	
B	Added radio plane	11/10/04	HWJ
C	Added radio plane sleeve & release groove	6/21/05	HWJ

2X at 180°
Ø .375 ∇ .125
82° (∇ .340)
Ø .201 thru

2X at 180°
Ø .375 ∇ .125
82° (∇ .340)
tap 10-32 UNF-2B thru

2X Ø 1.270
To accept thinwall
15/16in socket

2X 1/2-20 UNF-2B thru

.700

.700

2X 1.125

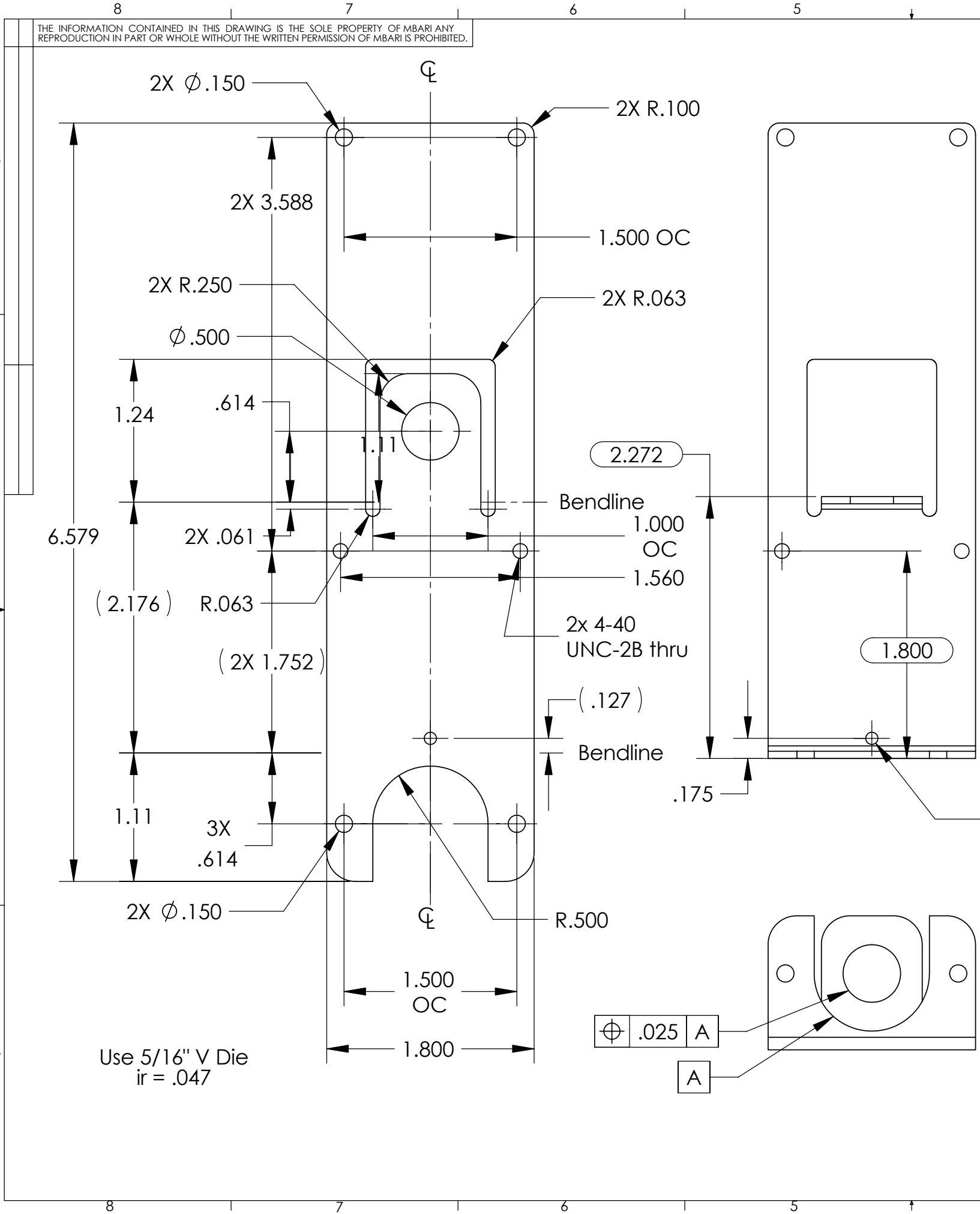
.625

1-14 UNS-2B thru

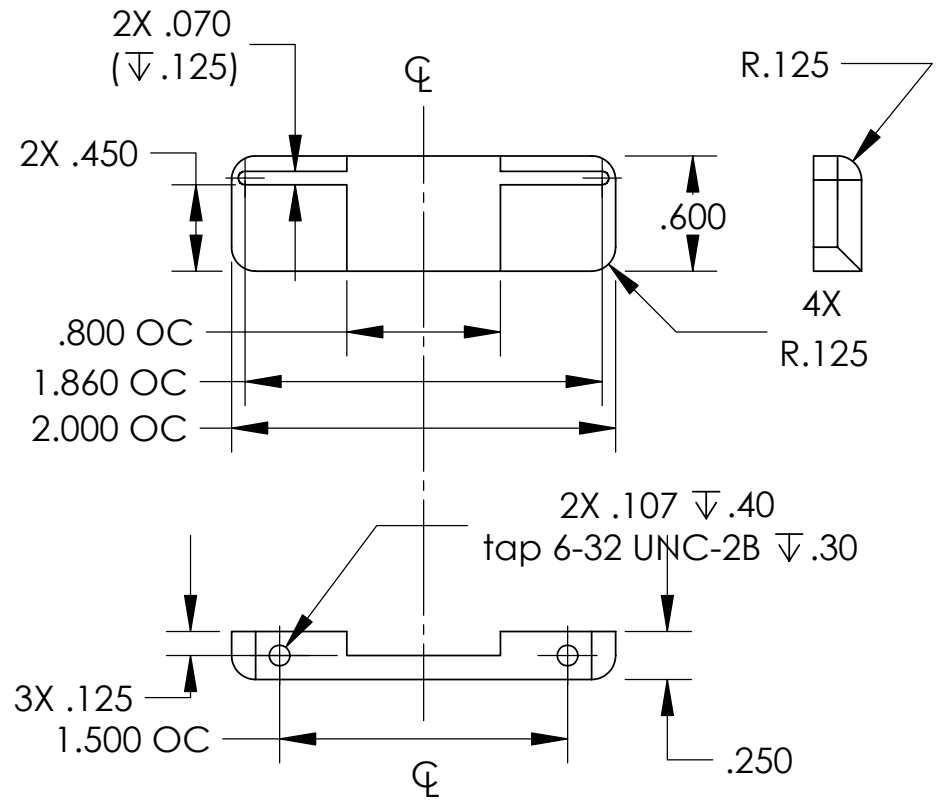
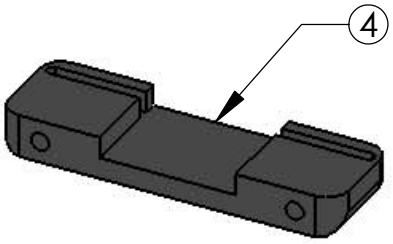
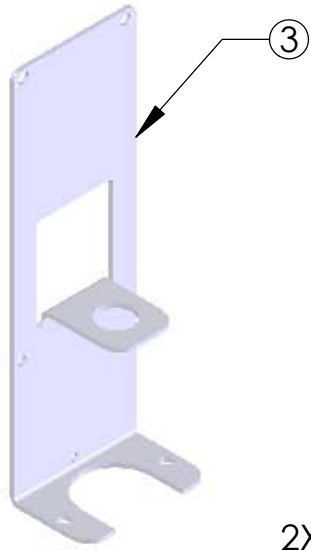
Item No.	Qty.	Part No.	Description	Material Specification
6	1@		Radio antnna sleeve	modified PN#KIT1086-100
5	1@		Radio plane (Config A and B)	1/16" copper sheet
4	1@		PCB mount	PVC or Delrin
3	1@		Radio mount	1/16" Aluminum sheet
2	1@		Radio housing body	Delrin (white)
1	1@		Radio housing top	Delrin (white)

BILL OF MATERIALS

Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM $\pm$ 1/16	2 PLACE DIM $\pm$.02	3 PLACE DIM $\pm$.005	ANGLES $\pm$ 1°	DRAWN		MBARI	
Shop Foreman		1. DIMENSIONS ARE IN INCHES				Hans Jannasch	4/21/03	7700 Sandholdt RD.	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				ENGINEER		Moss Landing, CA 95039	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				CHECKED		PH: (831) 775-1700	
		4. MACHINED FILLET RADII .0150-.030.				PROJECT NO.	701144	133jaha-Elkhorn Mooring B-RevC	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005				PROJECT	NSF LOBO Grant	Radio Housing (Rev C)	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.							
Application		DO NOT SCALE DRAWING				WEIGHT		SIZE B	DWG. NO. 133jaha.DWG
								SCALE 1:1	CAD FILE: MECH ENG ON TORNADO
									SHEET 2 OF 4



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modifications for new PCB	4/19/04	
B	Added radio plane	11/10/04	HWJ
C	Added radio plane sleeve & release groove	6/21/05	HWJ

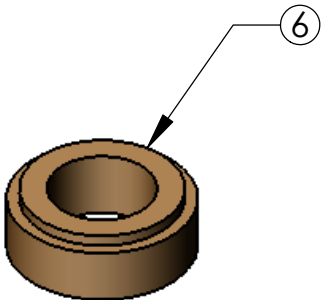
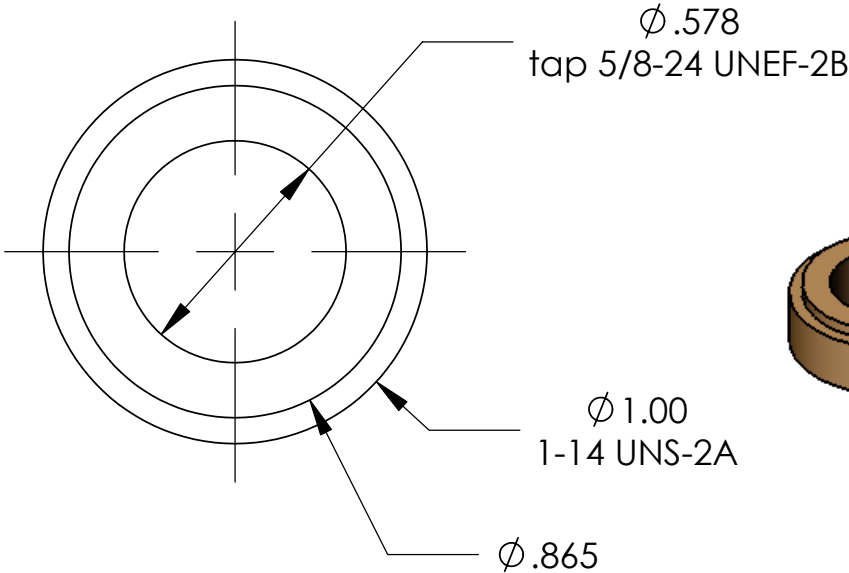
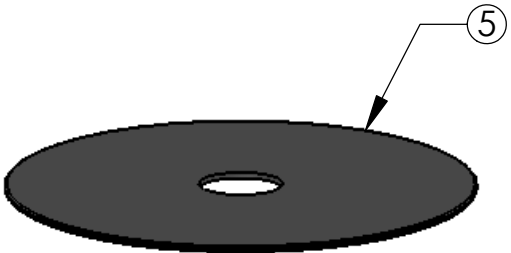
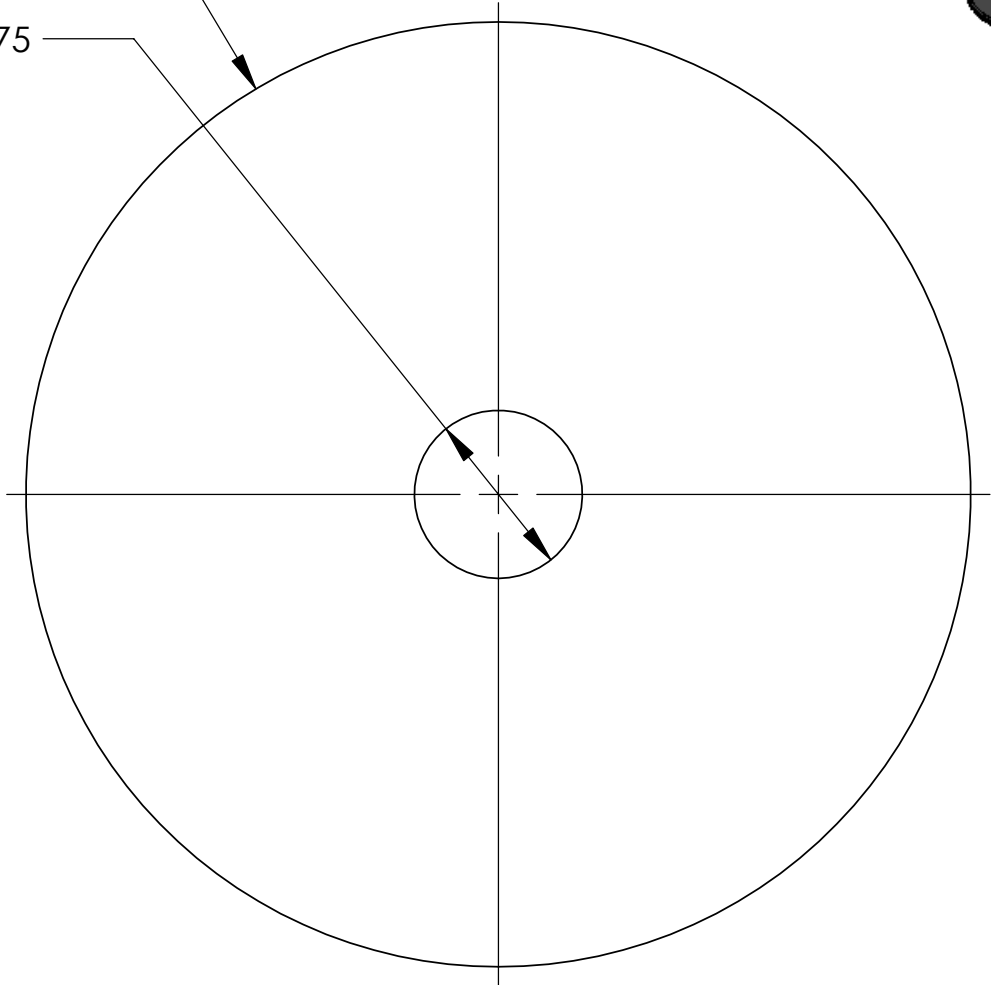


6	1@		Radio antnna sleeve	modified PN#KIT1086-100
5	1@		Radio plane (Config A and B)	1/16" copper sheet
4	1@		PCB mount	PVC or Delrin
3	1@		Radio mount	1/16" Aluminum sheet
2	1@		Radio housing body	Delrin (white)
1	1@		Radio housing top	Delrin (white)
Item No.	Qty.	Part No.	Description	Material Specification

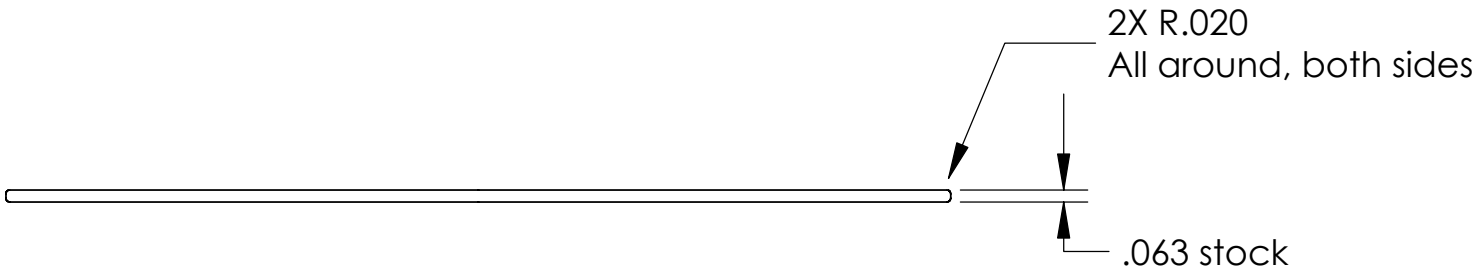
BILL OF MATERIALS				Monterey Bay Aquarium Research Institute			
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM $\pm$ 1/16	2 PLACE DIM $\pm$.02	DRAWN Hans Jannasch		4/21/03	
Shop Foreman		3 PLACE DIM $\pm$.005	ANGLES $\pm$ 1°	ENGINEER			
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED			
		2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO.		701144	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT		NSF LOBO Grant	
		4. MACHINED FILLET RADII .0150-.030.					
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005					
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.					
NEXT ASSY Description		NEXT ASSY Number					
Application		DO NOT SCALE DRAWING		WEIGHT			

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE		
A	Modifications for new PCB	4/19/04	
B	Added radio plane	11/10/04	HWJ
C	Added radio plane sleeve & release groove	6/21/05	HWJ



Note:
Part 6 only needs
recess added to fit
Part 7 (the two are
soldered together)



6	1@		Radio antenna sleeve	modified PN#KIT1086-100
5	1@		Radio plane (Config A and B)	1/16" copper sheet
4	1@		PCB mount	PVC or Delrin
3	1@		Radio mount	1/16" Aluminum sheet
2	1@		Radio housing body	Delrin (white)
1	1@		Radio housing top	Delrin (white)
Item No.	Qty.	Part No.	Description	Material Specification

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN Hans Jannasch	4/21/03		
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER			
Engineer						CHECKED			
						PROJECT NO. 701144			
NEXT ASSY Description	NEXT ASSY Number					PROJECT NSF LOBO Grant	133jaha-Elkhorn Mooring B-RevC Radio Housing (Rev C)		
							SIZE B	DWG. NO. 133jaha.DWG	REV. C
Application		DO NOT SCALE DRAWING				WEIGHT		SCALE 1:1	CAD FILE: MECH ENG ON TORNADO SHEET 4 OF 4