


Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	2302-01201-00002	18" UPPER BUMP BAR
2	1	2302-01201-00004	THRUSTER GUARD BUMP PLATE
3	1	2302-01201-00003	15.4" LOWER BUMP BAR

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1	1	2302-01201-00002	18" UPPER BUMP BAR
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PART NO. 2302-01201-10001
STARBOARD BUMP FRAME WELDMENT
MATERIAL: Stainless Steel, Austenitic

PART NO. 2302-01201-00001
PORT BUMP FRAME WELDMENT
MATERIAL: Stainless Steel, Austenitic

REVISION HISTORY			
REV	DATE	DESCRIPTION	APPROVED
A	9/6/2024	INITIAL RELEASE	G HOLLINGER

**Oregon State University**

INTERPRET DRAWING IAW
ASME Y14.100-2004

UNLESS OTHERWISE NOTED:
DIMENSIONS IN INCHES
TOLERANCES:

DECIMAL	ANGLE	FRACTION
.x ± 0.1	± 1 deg	± 1/32
.xx ± 0.01		
.xxx ± 0.005		

BREAK ALL SHARP EDGES R0.02 MIN

DESIGN	DATE
C HOLM	6/6/2023
DRAFT	DATE
C HOLM	9/6/2024
CHECKED	DATE
C HOLM	9/6/2024
APPROVED	DATE
G HOLLINGER	9/6/2024
MFG APPROVAL	DATE
N/A	

REFERENCE DESIGNATOR

OREGON STATE UNIVERSITY ROBOTICS
MECHANICAL, INDUSTRIAL, AND MANUFACTURING ENGINEERING
204 ROGERS HALL 2000 SW MONROE AVE, CORVALLIS, OR, 97331-5503
CHRIS HOLM holmch@oregonstate.edu 541-737-8299 O 503-999-5268 C

TITLE

CVHS ROV PORT BUMP FRAME WELDMENT

SIZE	DWG NO	REV
A	2302-01201	A

NOT TO SCALE

SHEET 1 OF 3

