

Bill of Material: UMO-GEN-EXT				
Number	Quantity	Part Number	Nomenclature	Revision
	1	UMO-STR-MAIN	Structures sub-system assembly	A
1	1	UMO-TTC-HGANT	High gain parabolic dish	A
2	1	UMO-PAYLOAD-EPT	Radiation Monitor	A
3	1	UMO-PAYLOAD-HR250	High Resolution Visible Camera	A
4	1	UMO-PAYLOAD-ORBITER	Miranda Orbiter	A
5	1	UMO-PAYLOAD-TIS	Thermal Infrared Sensor	A
6	1	UMO-PAYLOAD-VIMS	Visible and near Infrared Multi-wavelength Spectrometer	A
7	2	UMO-ADCS-THR	ADCS Thruster	A
8	5	Symmetry of UMO-ADCS-THR_1		
9	4	Symmetry of Symmetry of UMO-ADCS-THR_1		
10	1	Symmetry of Symmetry of Symmetry of UMO-ADCS-THR_1		
	1	UMO-PRO-SA1	Propulsion sub-system assembly	A
11	1	UMO-TTC-OMNI	Omnidirectional antenna	A
	1	UMO-GEN-LAY1	Internal assembly	A
12	13	UMO-THE-LOUV	Louvre	A
13	1	UMO-ADCS-SUN	Sun sensor	A
14	2	UMO-ADCS-STAR	Star sensor	A

Bill of Material: UMO-STR-MAIN				
Number	Quantity	Part Number	Nomenclature	Revision
15	2	UMO-STR-OCT	Structural base	A
	4	UMO-STR-SA1	Internal wall assembly	A
	4	UMO-STR-SA1	Internal wall assembly	A
16	1	UMO-STR-ASRG_MNT	ASRG mounting adapter	A
17	9	UMO-STR-1494LTANK	Main propellant tank	A
18	1	UMO-STR-389LTANK	Auxiliary fuel tank	A
19	1	UMO-STR-169LTANK	Auxiliary oxidiser tank	A
20	2	UMO-STR-5LTANK	ADCS propellant tank	A
21	1	UMO-EPS-ASRG	Advanced stirling radioisotope generator	A
22	4	UMO-STR-COL	Supporting rods	A

Bill of Material: UMO-STR-SA1				
Number	Quantity	Part Number	Nomenclature	Revision
23	1	UMO-STR-WALL	Structure wall	A
24	1	UMO-STR-STRING	Stringer	A

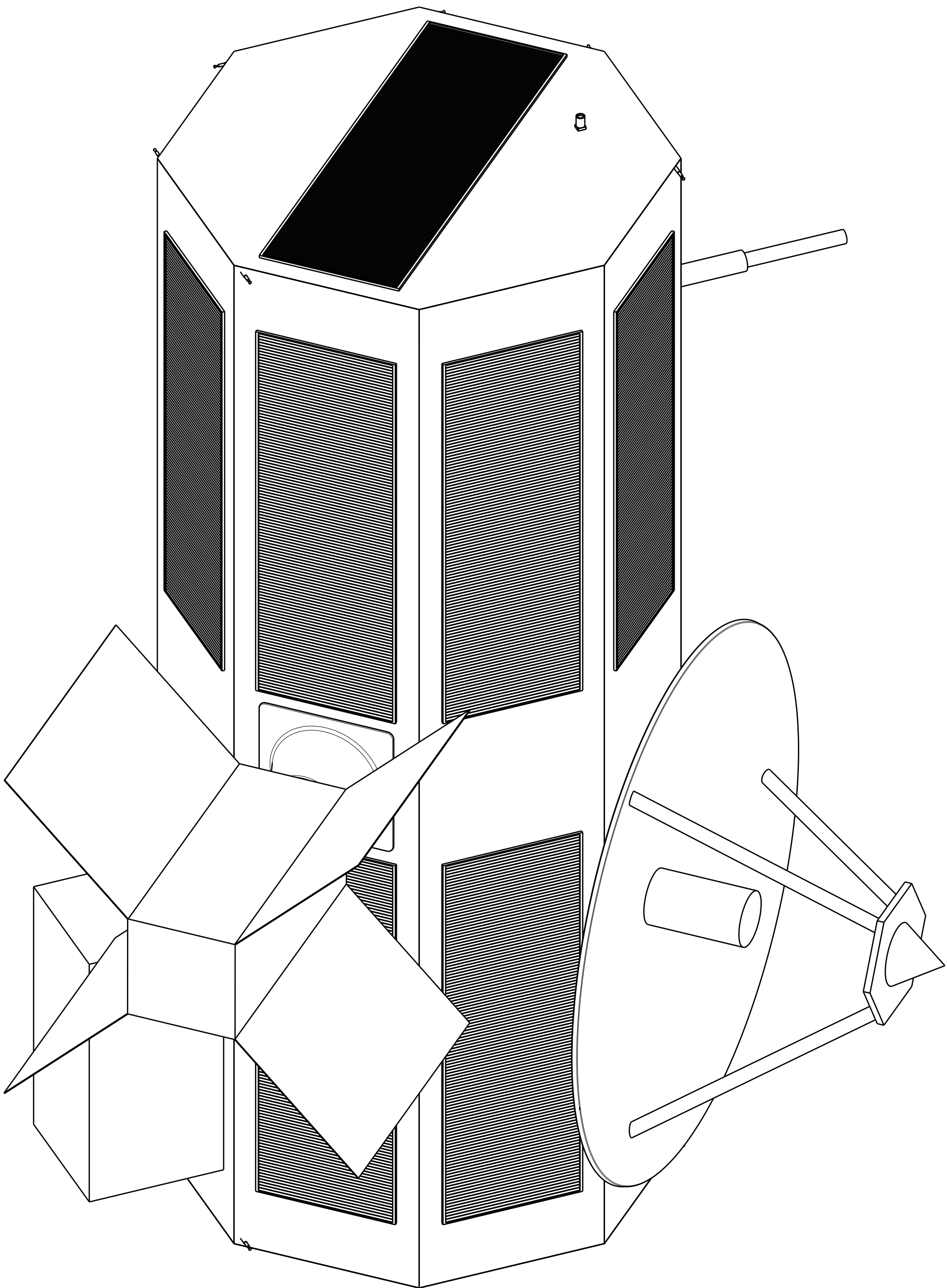
Bill of Material: UMO-STR-SA1				
Number	Quantity	Part Number	Nomenclature	Revision
23	1	UMO-STR-WALL	Structure wall	A
25	1	UMO-STR-STRING	Stringer	A

Bill of Material: UMO-PRO-SA1				
Number	Quantity	Part Number	Nomenclature	Revision
26	1	UMO-PRO-NZLE	Engine nozzle, compustion chamber	A
27	1	UMO-PRO-VLVS	Engine Pumps and Valves	A
28	1	UMO-PRO-PCA	Pressure control assembly	A
29	1	UMO-PRO-PIA	Pressure isolation assembly	A
30	2	UMO-PRO-SEN	Propulsion subsystem sensor	A

Bill of Material: UMO-GEN-LAY1				
Number	Quantity	Part Number	Nomenclature	Revision
31	1	UMO-STR-FLOOR	Structure floor support	A
32	4	UMO-THE-RHU_	Radioisotope heating unit	A
33	4	UMO-ADCS-REA	Reaction wheel	A
34	2	UMO-ADCS-GYR	Gyroscope	A

Recapitulation of: UMO-GEN-EXT	
Different parts: 38	
Total parts: 94	
Quantity	Part Number
2	UMO-Structures-Octagon
8	UMO-Structure-Wall
4	UMO-Structure-Stringer
4	UMO-Structure-Stringer
1	UMO-STR-RTG_MNT
9	UMO-STR-1494LTANK
1	UMO-STR-389LTANK
1	UMO-STR-169LTANK
2	UMO-STR-5.5LTANK
1	UMO-TG-RHU
4	UMO-STR-COL
1	UMO-TTC-HGANT
1	UMO-PAYLOAD-EPT
1	UMO-PAYLOAD-HR250
1	UMO-PAYLOAD-ORBITER
1	UMO-PAYLOAD-TIS
1	UMO-PAYLOAD-VIMS
2	UMO-ADCS-THR
5	Symmetry of UMO-ADCS-THR_1
4	Symmetry of Symmetry of UMO-ADCS-THR_1
1	Symmetry of Symmetry of Symmetry of UMO-ADCS-THR_1
1	UMO-PRO-NZLE
1	UMO-PRO-VLVS
1	UMO-PRO-PCA
1	UMO-PRO-PIA
2	UMO-PRO-SEN
1	UMO-TTC-OMNI
1	UMO-STR-FLOOR
4	UMO-TG-RHU_
4	UMO-ADCS-REA
2	UMO-ADCS-GYR
2	UMO-ADCS-BR1
1	UMO-ADCS-BR2
1	UMO-CDH-BOX
1	UMO-TTC-BOX
13	Louvres
1	UMO-ADCS-SUN
2	UMO-ADCS-STAR

Bill of Material: UMO-GEN-LAY1				
Number	Quantity	Part Number	Nomenclature	Revision
35	2	UMO-ADCS-BR1	ADCS support pannel	A
36	1	UMO-ADCS-BR2	ADCS support pannel	A
37	1	UMO-CDH-BOX	CDH Command Box	A
38	1	UMO-TTC-BOX	TCC Command Box	A



Isometric view  
Scale: 1:25

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DRAWN BY		DATE		DRAWING TITLE			
Dominic		04/10/2021		Uranus-Miranda Orbiter Assembly			
CHECKED BY		DATE		SIZE	DRAWING NUMBER		REV
Sebastian		04/10/2021		A0	UMO-GEN-EXT		A
DESIGNED BY		DATE		SCALE 1:40		WEIGHT(kg)1289.37	SHEET 1/2
Mikhail		03/10/2021					