## EMA 569 - Refueling Spacecraft - Drawing Packet Aidan Butula, Will Driessen, Jack Hilt, Nikolaj Hindsbo, Scott Nelson May 1, 2023



## Table of Part Numbers

Table 1: Part Numbers.

Subassembly	Sub-subassembly	Filename	Part Number
Spacecraft Assembly			001
Propulsion			
		MONARC-90LT	104
		MONARC-90LT (Mirrored)	105
		MONARC-445 Nozzle	101
		MONARC-445 Injector	102
		RCS Base	108
		RCS Subassembly	109
Tank Assembly			200
		Hydrazine Tank	201
		Pressurant Tank	202
		Hydrazome Tank Plate	203
		Pressurant Tank Plate	204
		Connecting Valve	205
		4289T212 Valve	206
GNC Pack			300
		Flight Computer	301
		IMU	302
		SPOThermal	303
		Avionics Plate	304
		Avionics Pack	305
		CMG	306
		Star Tracker	307
Structure			400
	Vertical Bar Assembly		401
	V	Vertical Bar	422
		Vertical Bar Caps	423
		Tapered Beam	402
		Payload Adapter Attachment	403
		Payload Adapter	404
		Top Plate	405
		Top Plate with RCS Cutout	406
		Bottom Plate	420
		Top Central Plate	421
		Bottom Tapered Plate	424
	Cross Section	F 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	407
	-	Inside Bar	408
		Outside Bar	409
		Cross Bar	410
	Cross Section Bottom		411
	22000 Section Bottom	Inside Bar	408

Table 2: Part Numbers Continued.

Subassembly	Sub-subassembly	Filename	Part Number
	Plate assembly		412
		Plate divider	413
		Outside Bar	409
		Brackets	414
		Top Hex Slice Plate	430
Solar Panels			500
		Solar Panel	501
		Solar Panel Actuator	502
		Solar Panel Actuator Female	503
		Solar Panel Actuator Mount Bar	504
		4668K261 - Ball Bearing	505
		40mm Shaft	506
		1828A57 - Heavy Duty Hinge	507
Robotic Arm			600
	Arm Base		601
		Base Attachment	610
		Base	611
		Servo Motor	612
		Shoulder	602
		Humerus	603
		Radius	604
		RAFTI Valve	605
		Connector RAFTI	606
		Bottom Pipe Clamp	607
		Top Pipe Clamp	608
		Tubing	609
Whipple Shielding (Side)			700
		Whipple Front Plate	701
		Whipple Aluminium Foam	702
		Whipple Back Foam	703
Whipple Shielding (Bottom)			800





















































