SeaPerch ROV Parts List			

Frame Subsystem

Part Description	Qty	Vendor	Vendor Part Number
PVC Pipe - 1/2" Schedule 40	6 feet	Local (see note 1)	
PVC 90 Degree Elbow - 1/2" Schedule 40	10	Local (see note 1)	
PVC Tee - 1/2" Schedule 40	4	Local (see note 1)	
Pool Noodle - 2-1/2" outside diameter, 3/4" hole	10 inch long	Local (see note 1)	
Mesh - 12" x 8" - Black Polyethylene (sold in 48" roll)	1	McMaster-Carr	9314T34
Cable/Zip Ties - 6" Black	15	Local (see note 1)	
Cable/Zip - Motor Mount - 11-1/4"	6	Local (see note 1)	

Thrusters Subsystem

Part Description	Qty	Vendor	Vendor Part Number
12 Volt DC Motor, 740mA, 0.091" Shaft Diameter	3	Jameco Electronics	232022
Film Canister - 35 mm	3	Teachersource.com	CAN-310
Plastic Propeller, 1/8" Shaft Size, 1-3/4" Blade Diameter	3	Graves RC	DUM3003
Propeller Shaft Threaded Coupler, 4-40 Thread	3	Graves RC	DUB336
Threaded Insert Tee Nut, 4-40 Thread Size	3	McMaster-Carr	90975A002
Nylon-Insert Hex Locknut 4-40 - Stainless Steel	3	McMaster-Carr	91831A005
50 foot Cat 5e Stranded Cable with RJ-45 connector	1	MonoPrice	11340

Controllers Subsystem

Part Description	Qty	Vendor	Vendor Part Number
Printed Circuit Board (PCB)	1	Custom (see note 2)	
Enclosure w/Screws	1	Custom (see note 2)	
Miniature Toggle Switch DPDT (ON)-OFF-(ON)	2	Digi-Key	CKN1129-ND
Pushbutton Switch ON-(ON) SPDT, Right Angle	2	Mouser	107-3023-EVX
Switch Caps and Accessories .310" RN RD CAP	2	Digi-Key	EG2598-ND
RJ-45 Modular Jack Connector	1	Digi-Key	A31424-ND
Fuse Holder Radial PCB	1	Digi-Key	283-2356-ND
Fuse - 0.2" Radial Lead, 6.3A TE5	1	Digi-Key	WK4366BK-ND
Alligator Clips (Set of 2)	1	Jameco	256525
Black Alligator Clip Insulator	1	Jameco	248962
Red Alligator Clip Insulator	1	Jameco	248972
18 Awg Speaker Wire - 6 foot long	1	MonoPrice	2795

Other Materials

Part Description	Qty	Vendor	Vendor Part Number
Sealed Lead Acid Battery - 12 VDC, 7 Ah	1	BatteryMart	SLA-12V7-F1
Sealed Lead Acid Battery Charger - 12 VDC, 500 mA	1	BatteryMart	12BC1000D-1-KT
Wax Toilet Bowl Gasket, Fluidmaster 7510	1	See note 3	
Solder - 60/40 Rosin Core	1	Jameco	170457
Butyl Rubber Tape - 1" x 1"	1	McMaster-Carr	76385A14
Alcohol Wipe	1	Local (see note 1)	
Electrical Tape - Black - Roll	1	Local (see note 1)	
Disposable gloves		Local (see note 1)	
Safety glasses		Local (see note 1)	

Notes:

1. Items generally available at local hardware stores

2. Items are custom manufactured for SeaPerch and can be purchased in parts packs at
https://robonationshop.myshopify.com/collections/seaperch

3. This item can generally be purchased at local plumbing supply and hardware stores. This bowl gasket (wax ring) does not have a plastic flange. See https://www.fluidmaster.com/products/toilet/toilet-seals/7510-standard-wax-seal/

4. Parts listed may not be identical to parts provided in SeaPerch ROV kit due to manufacturing and supply chain changes

5. RoboNation does not have a relationship with listed vendors and does not have information on stock levels or pricing. Parts numbers may change without our knowledge.