PARTS CATALOG FOR NEPTUNE SB-1 SUBMARINE RTR

No.5220-K
No.5220-F



NEPTUNE
SB-1

Static-Diving Submarine

The contents shown are subject to change without prior notice due to product improvements and specification changes.

Manufactured by THUNDER TIGER CORPORATION

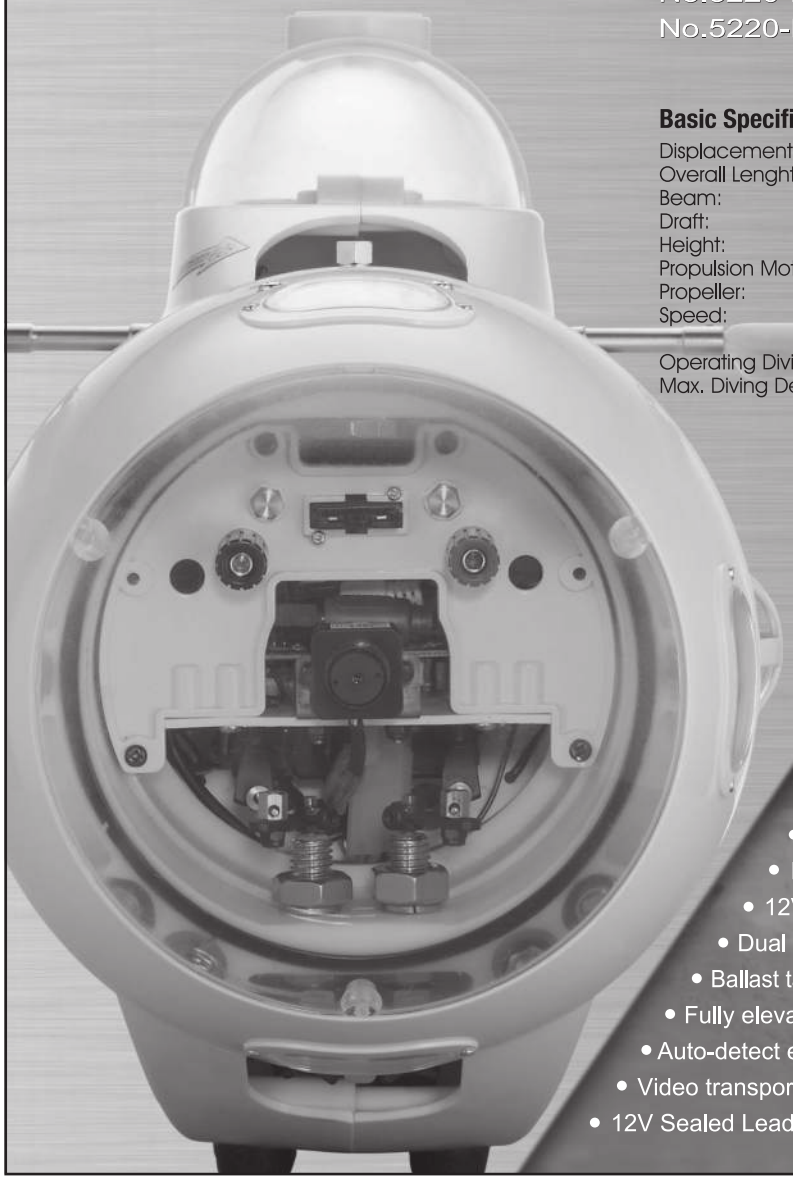
http://www.thundertiger.com

Thunder Tiger

Static Diving Submarine

No.5220-K NEPTUNE SUBMARINE KIT
No.5220-F NEPTUNE SUBMARINE SC

NEPTUNE
SB-1



Basic Specification:

Displacement:	7.7kg surface, 7.95kg submerged
Overall Lenght:	774mm
Beam:	290mm
Draft:	200mm
Height:	285mm
Propulsion Motor:	12V motor
Propeller:	40mm Pitch:41mm
Speed:	1.45knots (2.7km/h) surface, 1.08knots (2km/h) submerged
Operating Diving Depth:	5M
Max. Diving Depth:	10M (mechanical limit)

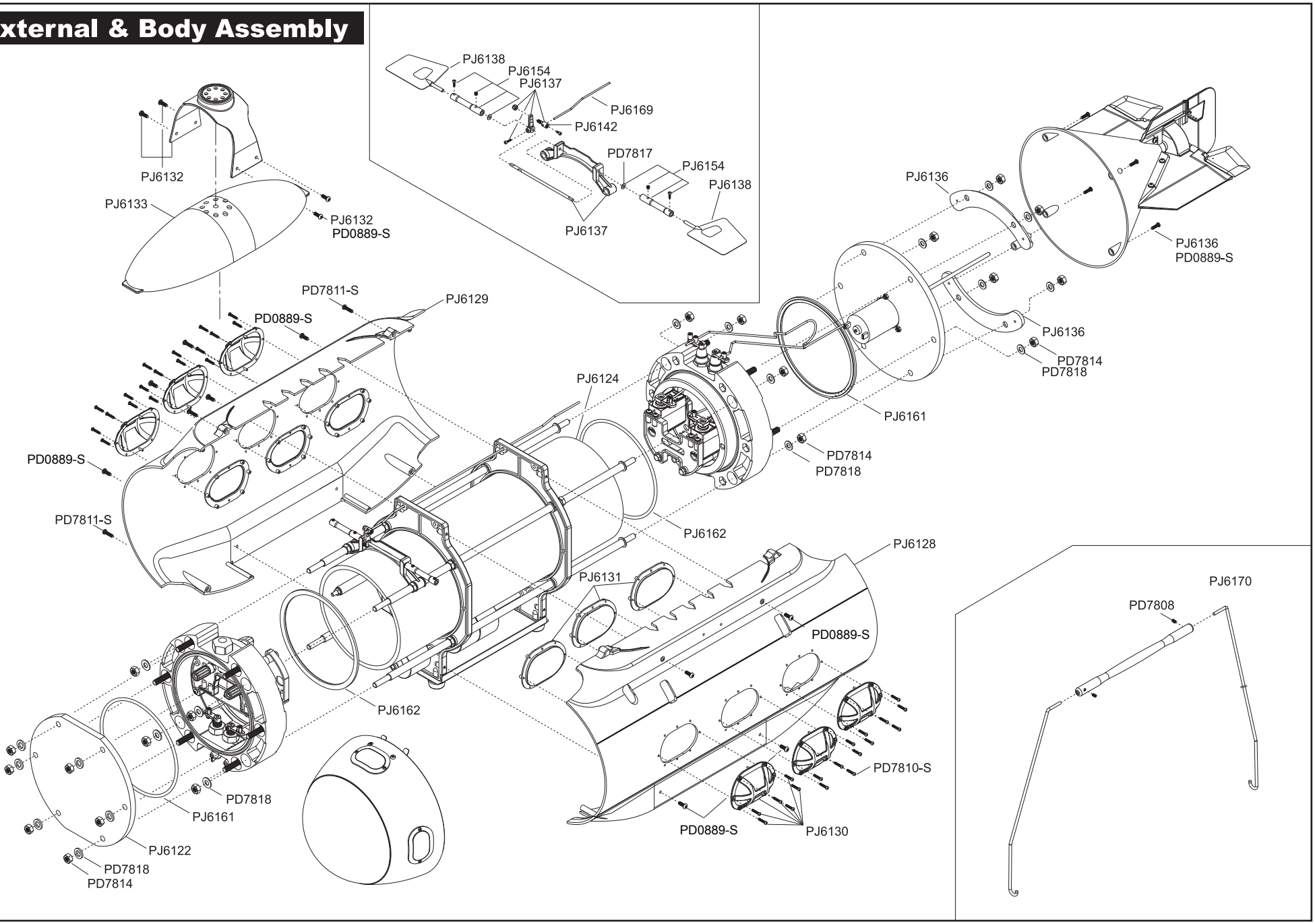


Features:

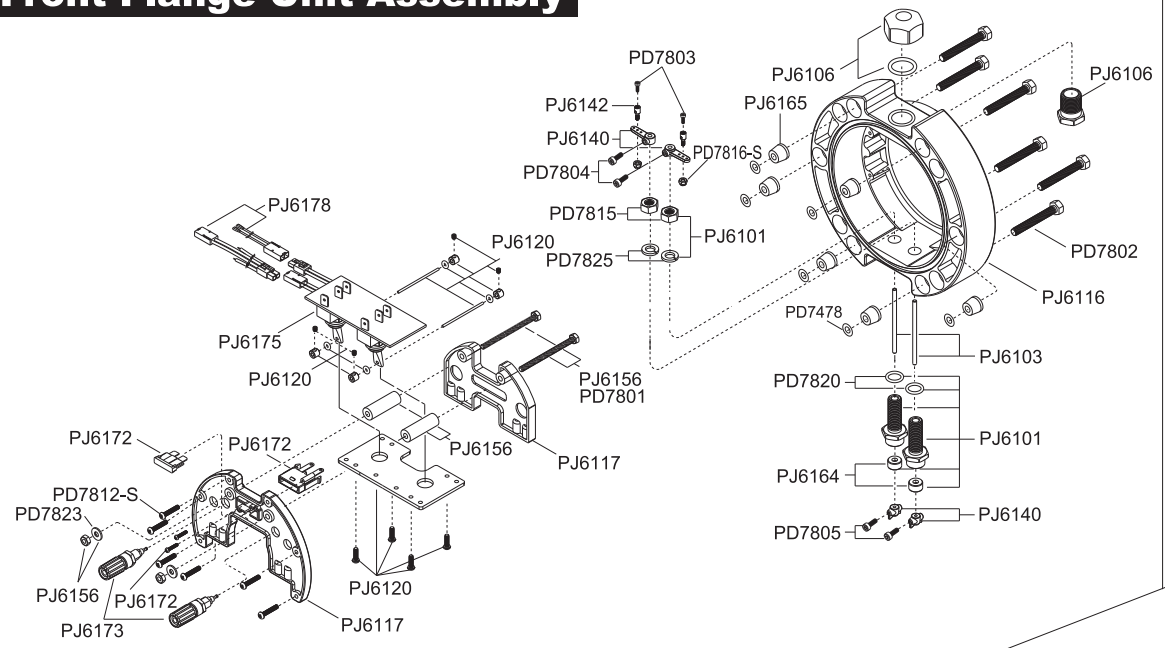
- Radio Control model
- High impact ABS plastic hull
- 12V motor propulsion power unit
- Dual Static & Dynamic Diving System
- Ballast tank w/roll pump & motor drive system
- Fully elevator/rudder control drivce
- Auto-detect electronic protecting system
- Video transport cable connector equipped
- 12V Sealed Lead-Acid battery included



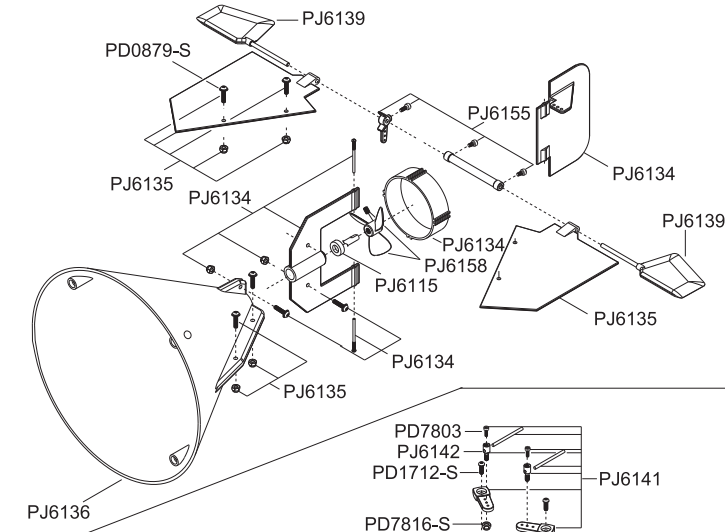
External & Body Assembly



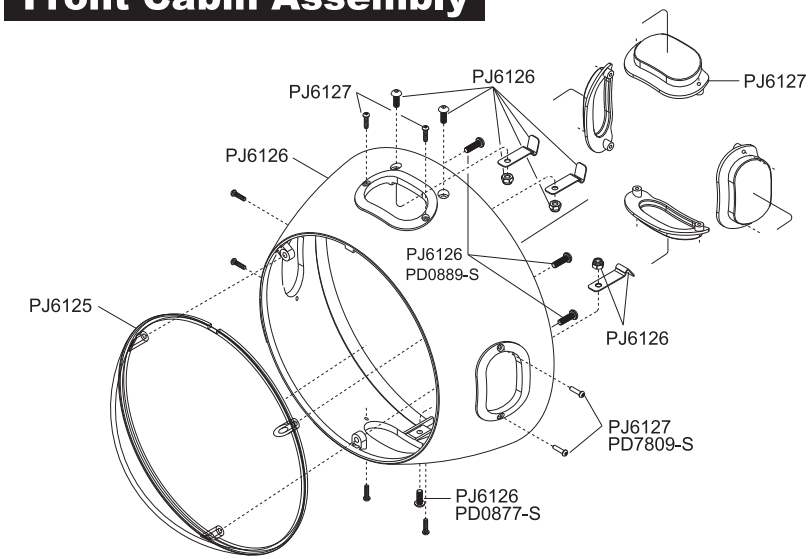
Front Flange Unit Assembly

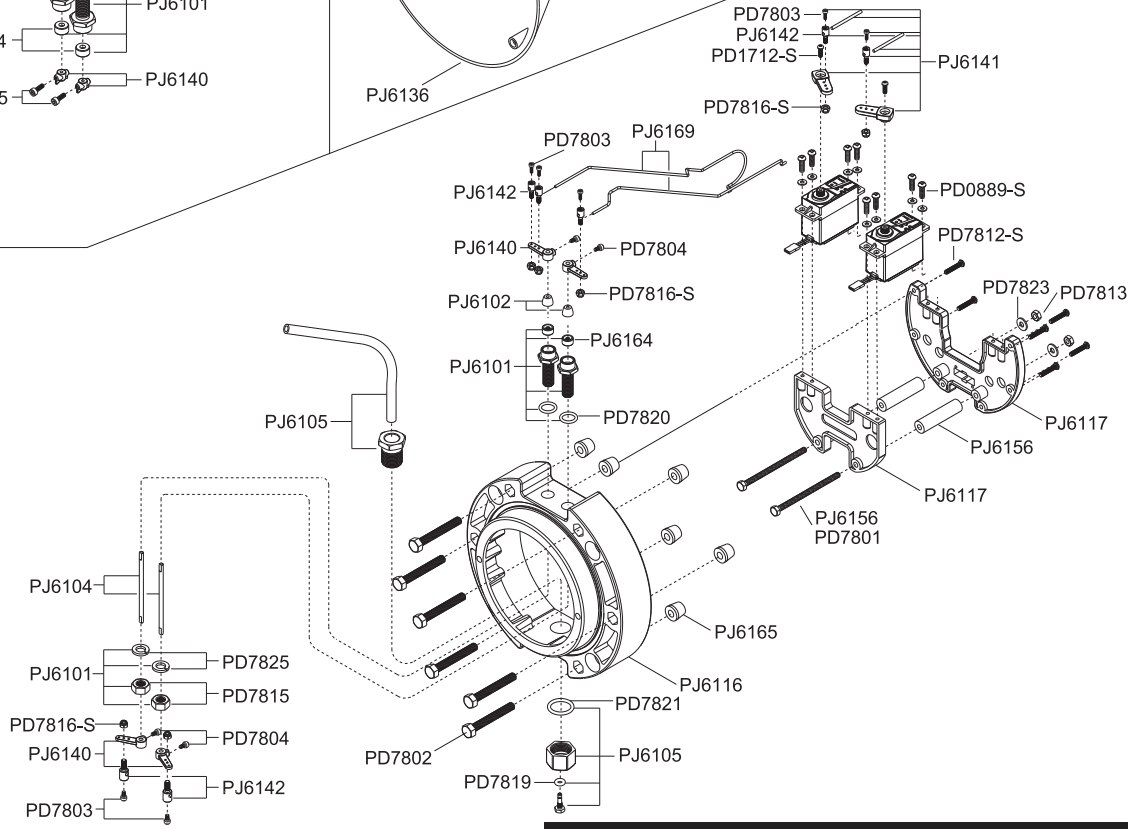


Rear Cone Assembly



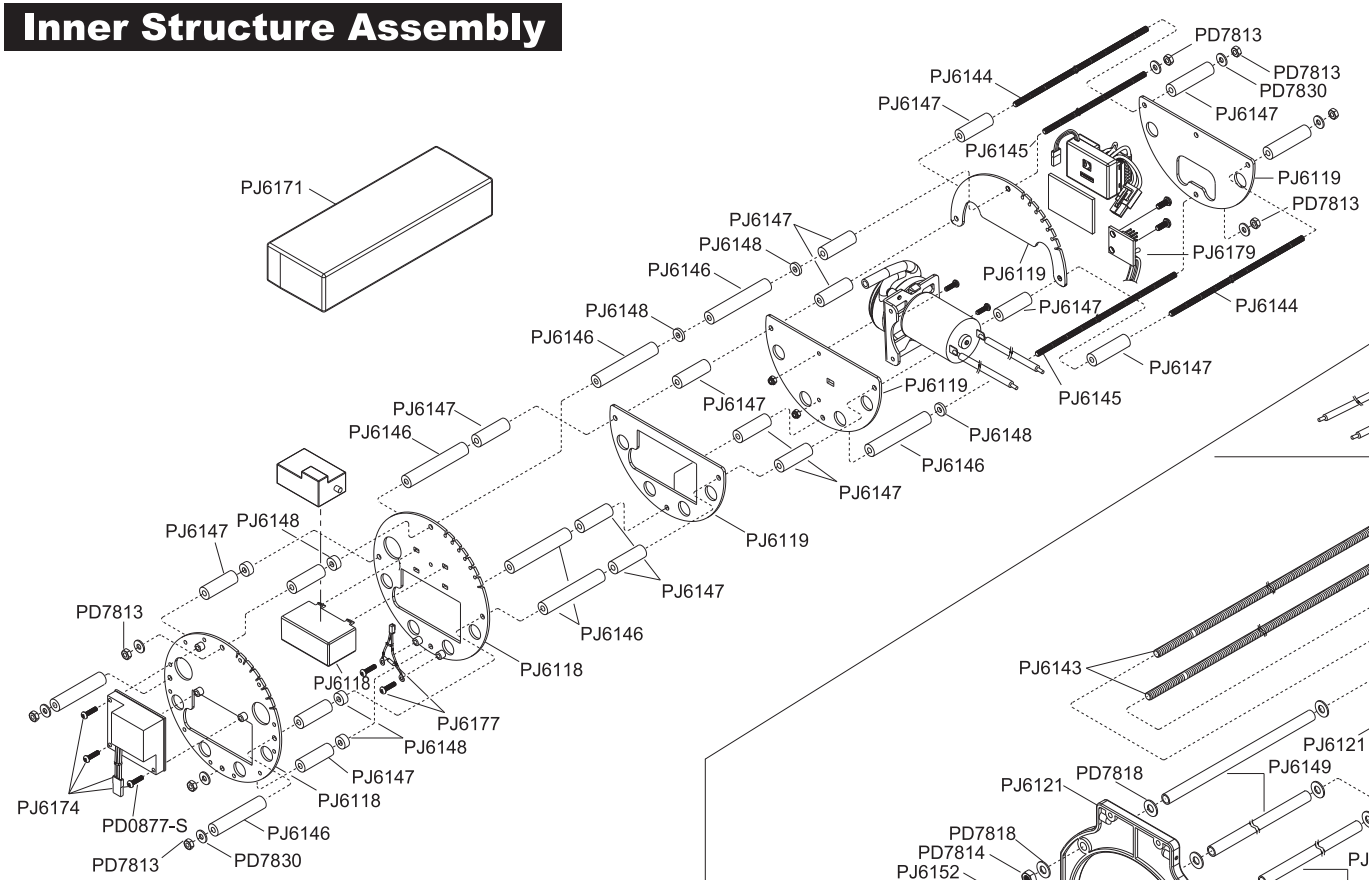
Front Cabin Assembly



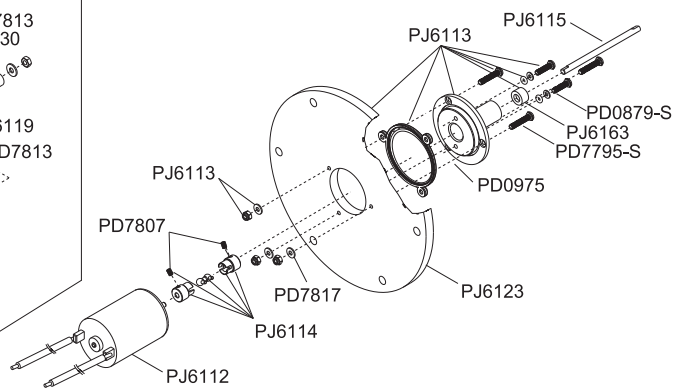


Rear Flange Unit Assembly

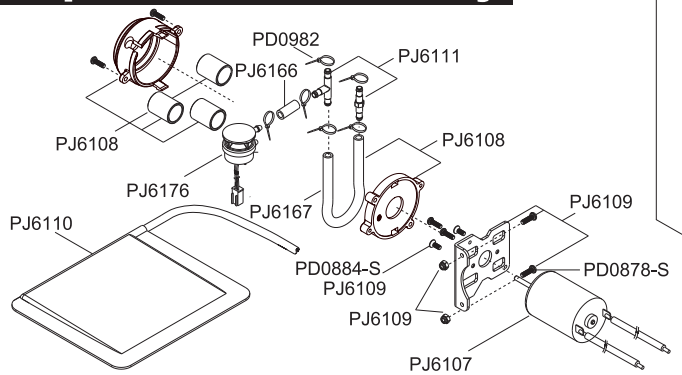
Inner Structure Assembly

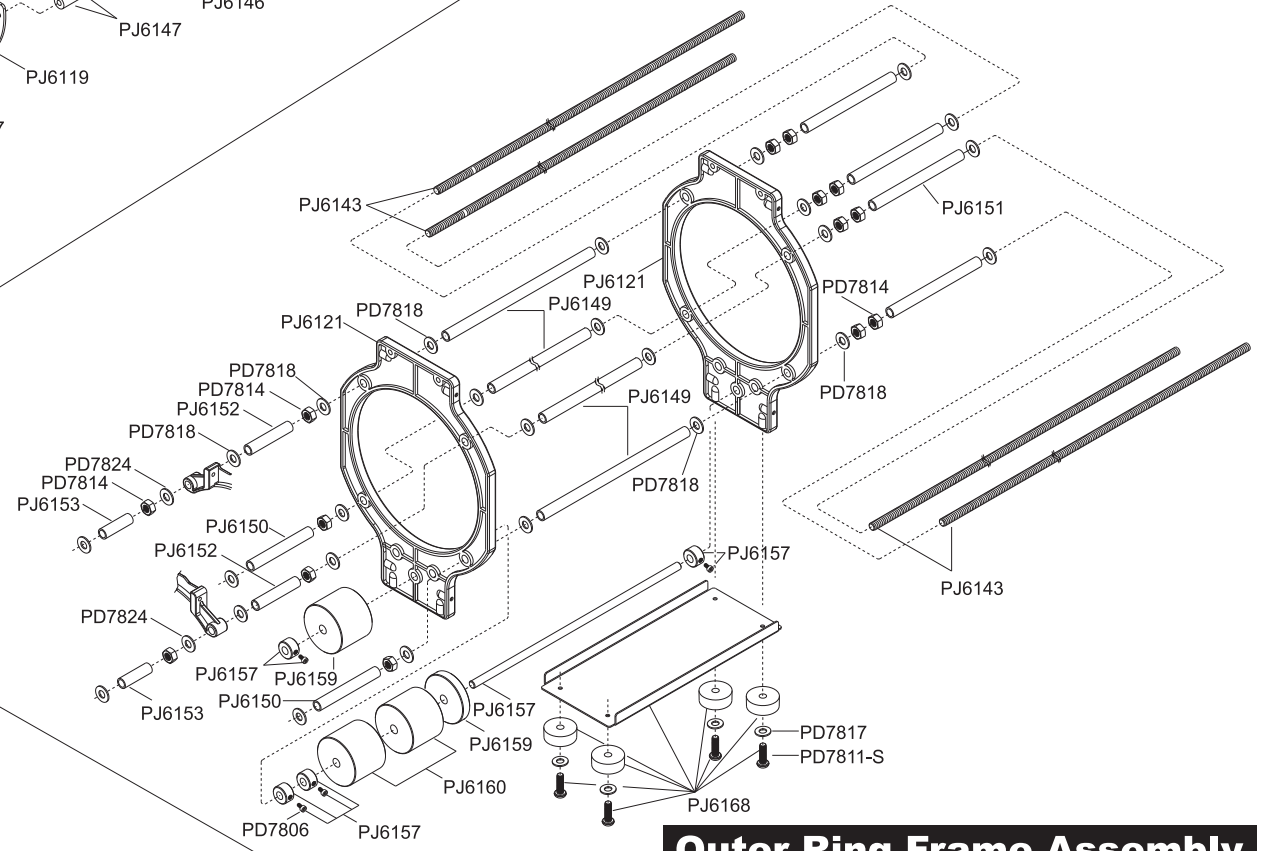


Drive System Assembly



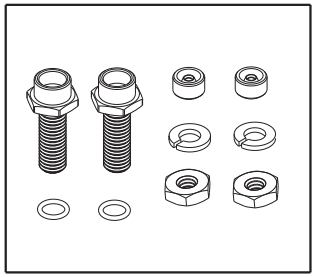
Pump & Ballast Assembly

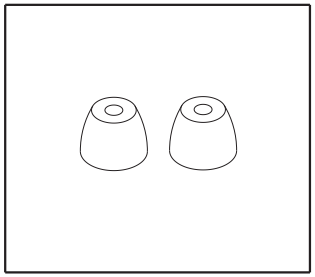


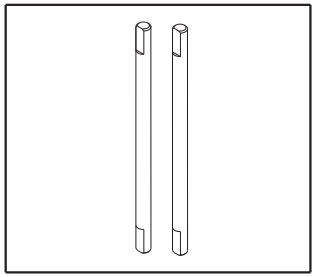


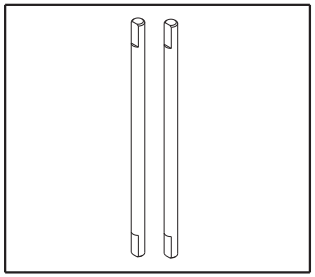
Outer Ring Frame Assembly

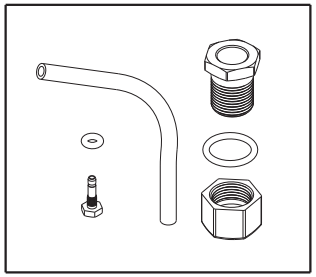
SUBMARINE PART LIST

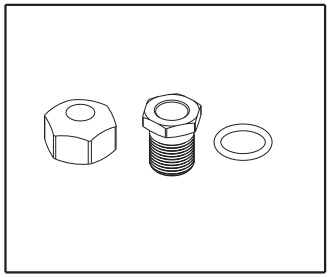

PJ6101 SEALED BOLT

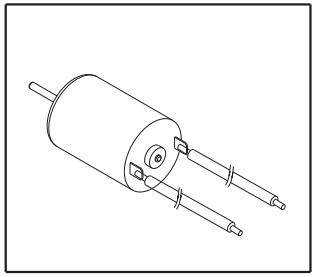

PJ6102 CONE RUBBER

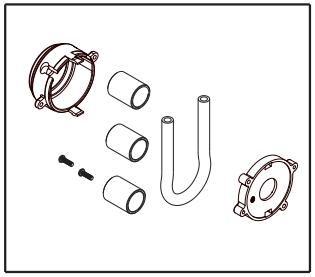

PJ6103 SWITCH LINKAGE ROD

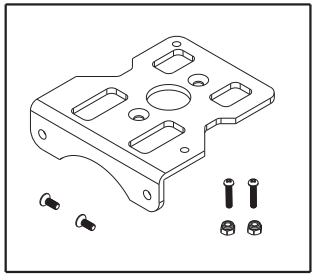

PJ6104 CONTROL LINKAGE ROD

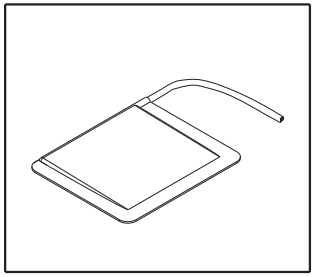

PJ6105 WATER INLET BOLT SET

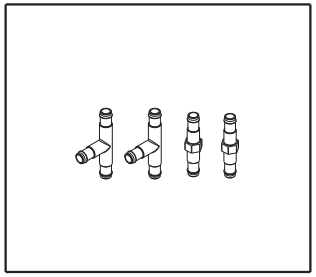

PJ6106 WATER PROOF BOLT SET

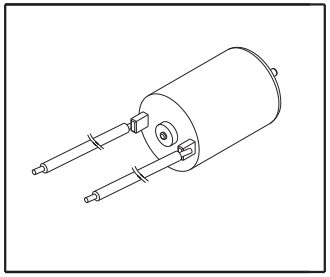

PJ6107 MOTOR SET,550

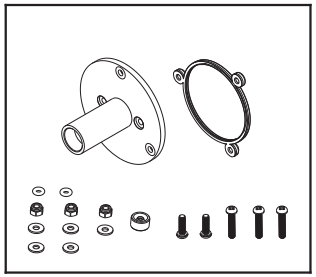

PJ6108 ROLL PUMP UNIT

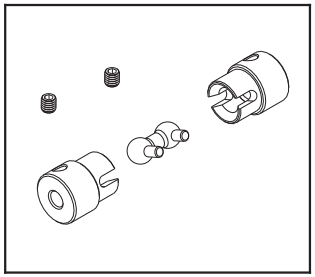

PJ6109 MOTOR MOUNT

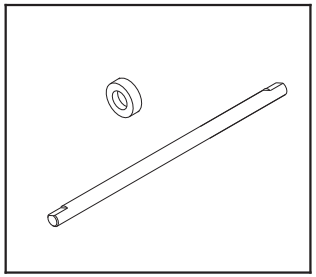

PJ6110 BALLAST TANK

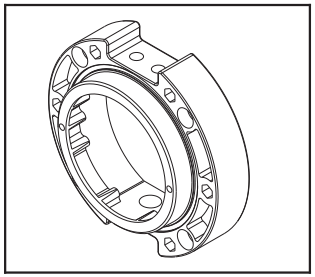

PJ6111 WATER TUBE CONNECTOR

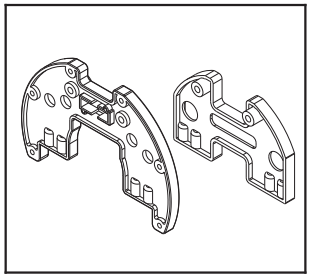

PJ6112 PROPULSION MOTOR

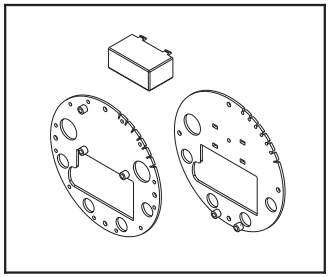

PJ6113 PROP. MOTOR MOUNT

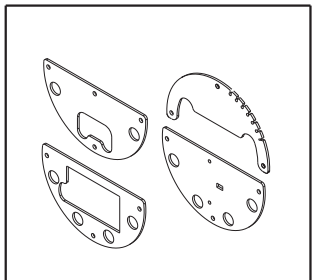

PJ6114 DRIVE CUP&SHAFT SET

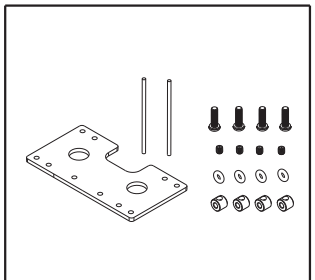

PJ6115 PROP DRIVE SHAFT

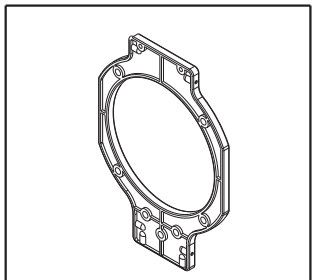

PJ6116 FR/RR FLANGE

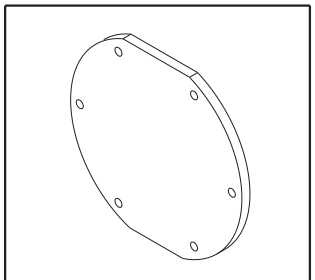

PJ6117 SERVO&H.W MOUNT

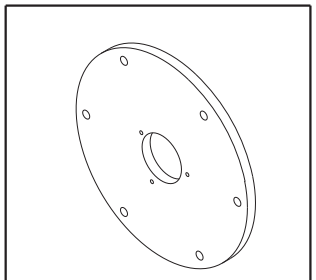

PJ6118 ROUND FRAME SET

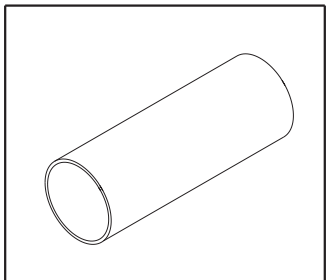

PJ6119 SEMI-ROUND FRAM SET


PJ6120 SWITCH MOUNT PLATE

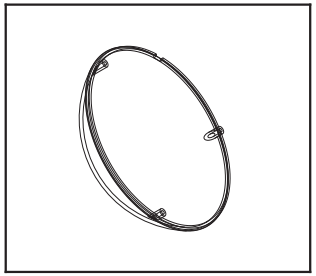

PJ6121 OUTER RING FRAME

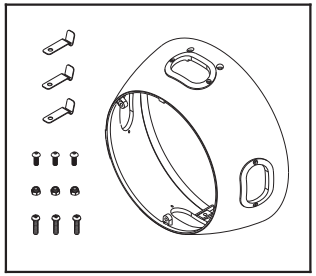

PJ6122 FR COVER PLATE

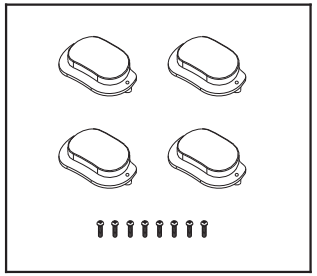

PJ6123 RR COVER PLATE

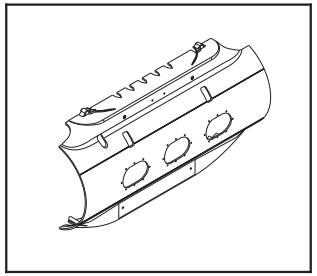

PJ6124 HULL MAIN TUBE

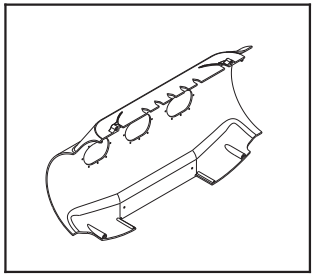
SUBMARINE PART LIST

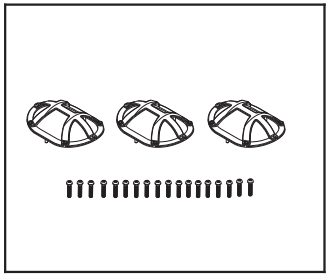

PJ6125 FR MARINE CANOPY

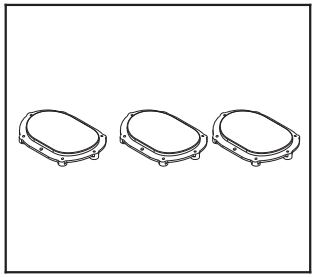

PJ6126 FR CABIN

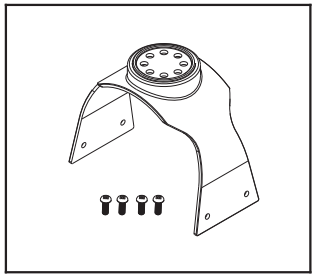

PJ6127 CABIN WINDOW

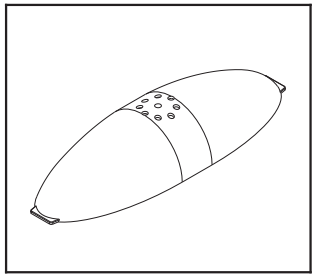

PJ6128 OUTER HULL(L)

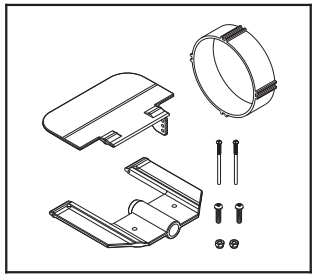

PJ6129 OUTER HULL(R)

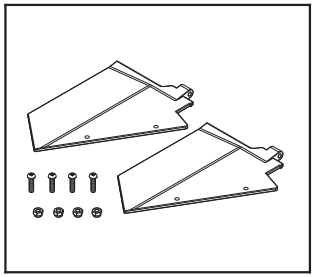

PJ6130 HULL WINDOW

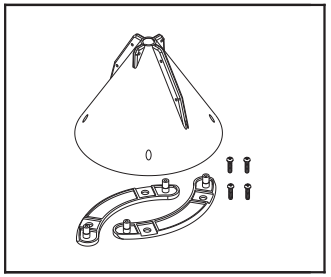

PJ6131 HULL WINDOW FRAME

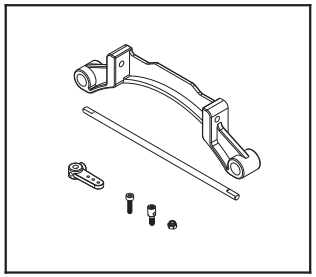

PJ6132 TOP CABIN FRAME

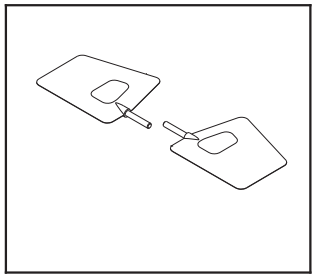

PJ6133 TOP MARINE CANOPY

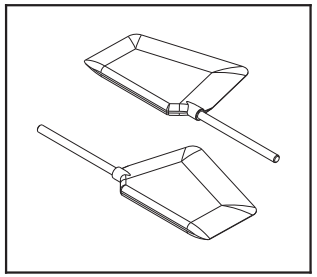

PJ6134 RR RUDDER BARCKET

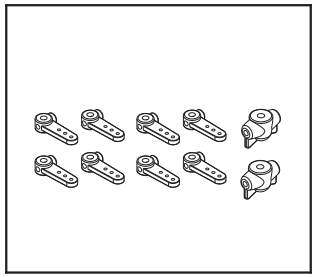

PJ6135 TAIL FIN

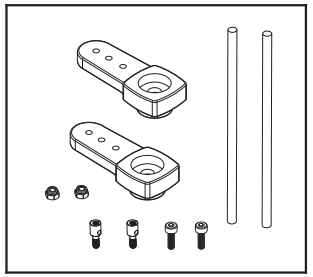

PJ6136 RR CONE FRAME

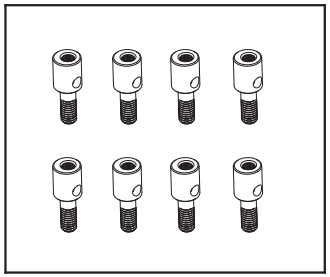

PJ6137 FR ELEVATOR BRACKET

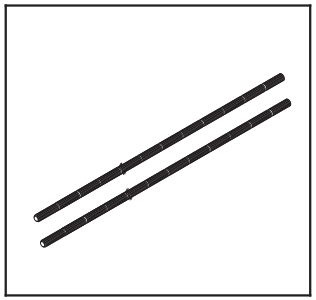

PJ6138 FR ELEVATOR SET

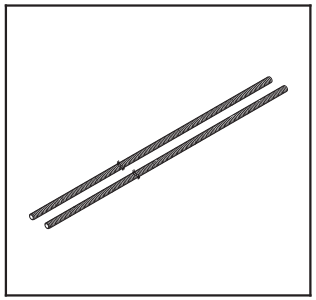

PJ6139 RR ELEVATOR SET

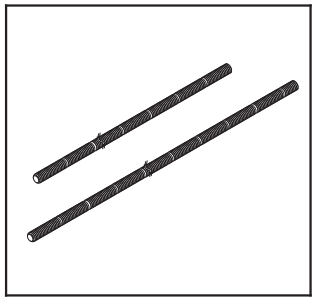

PJ6140 CONTROL ARM SET

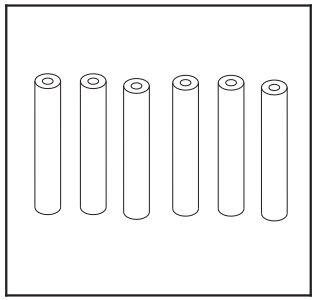

PJ6141 SERVO HORN&ROD

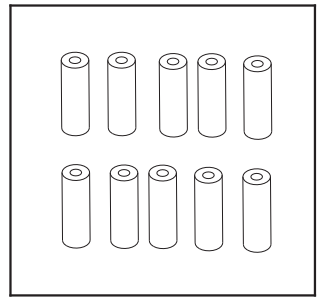

PJ6142 LINKAGE ROD MOUNT

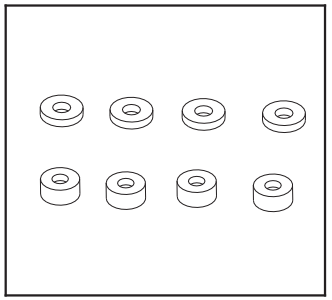

PJ6143 SCREW ROD(M6),L420


PJ6144 SCREW ROD(M4),L340

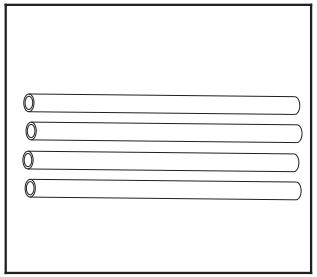

PJ6145 SCREW ROD(M4), L240&L210

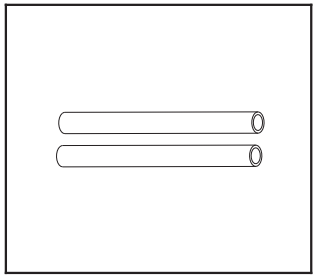

PJ6146 PLASTIC TUBE (6),L60

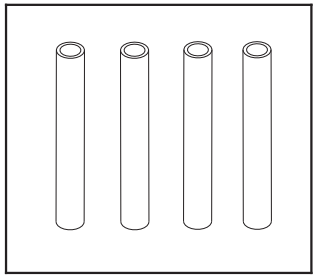

PJ6147 PLASTIC TUBE (10),L30

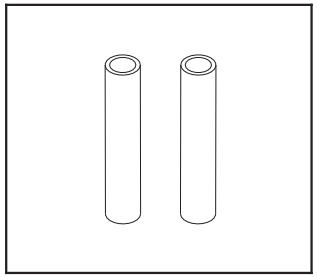

PJ6148 PLASTIC TUBE (8),L2&L6

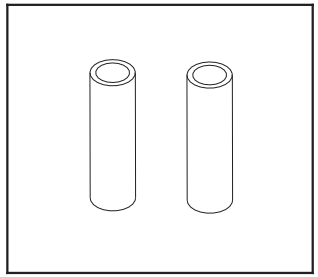
SUBMARINE PART LIST

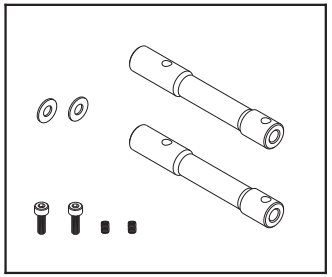

PJ6149 ALUM. TUBE(4),L150

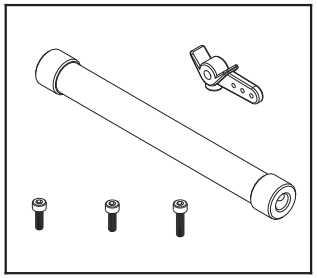

PJ6150 ALUM. TUBE(2),L101

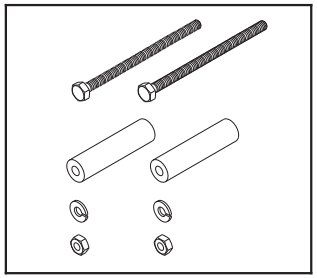

PJ6151 ALUM. TUBE(4),L96

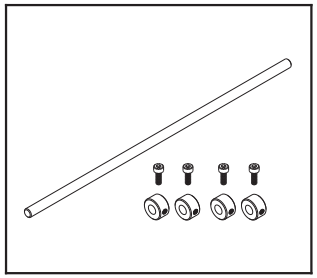

PJ6152 ALUM. TUBE(2),L41

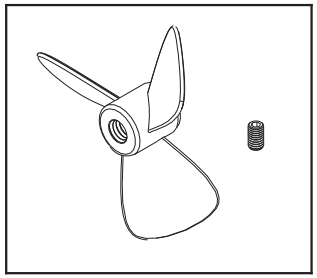

PJ6153 ALUM. TUBE(2),L38

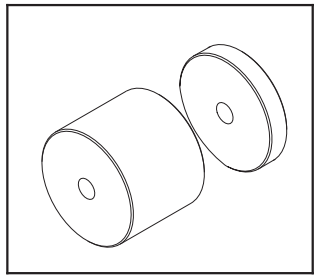

PJ6154 FR ELEV. MOUNT TUBE

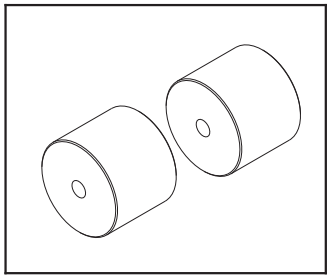

PJ6155 RR ELEV. MOUNT TUBE

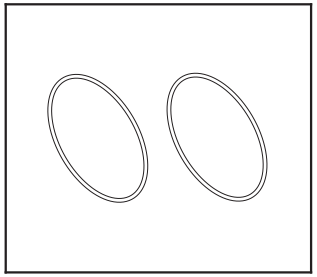

PJ6156 HEX MOUNT BOLT

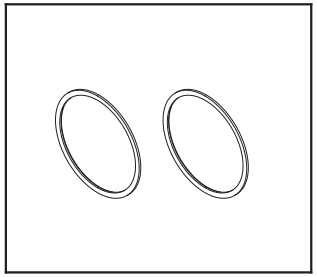

PJ6157 WEIGHT MOUNT ROD

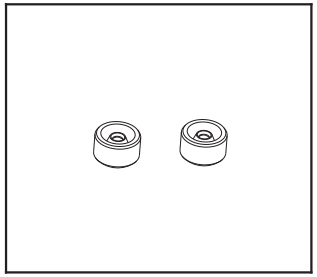

PJ6158 3 BLADE PROP,D40xP41

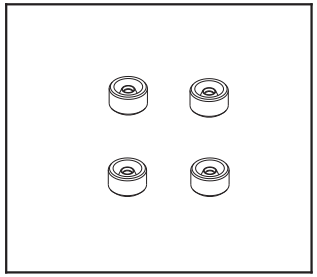

PJ6159 WEIGHT/A,D38xL32

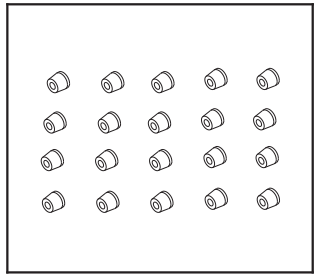

PJ6160 WEIGHT/B(2),D45xL30

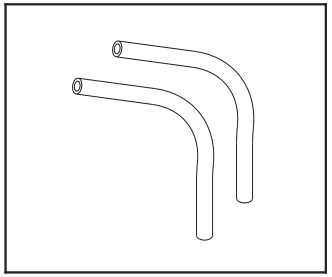

PJ6161 O-RING(2), ϕ124mm

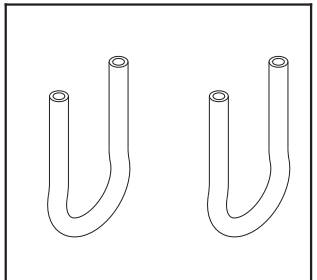

PJ6162 O-RING(2), ϕ120mm

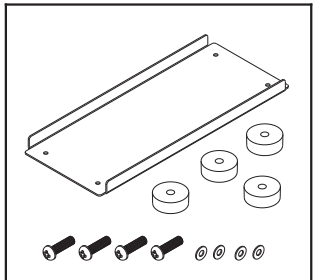

PJ6163 SEALED RUBBER/L(2)

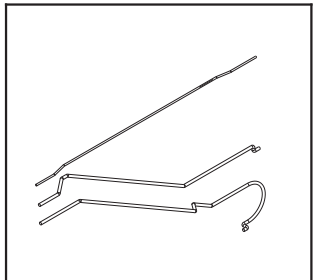

PJ6164 SEALED RUBBER/S(4)

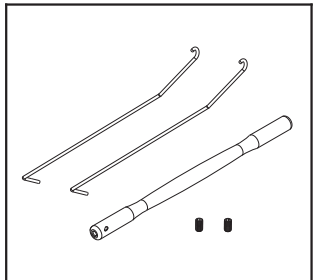

PJ6165 CONE RUBBER(20)

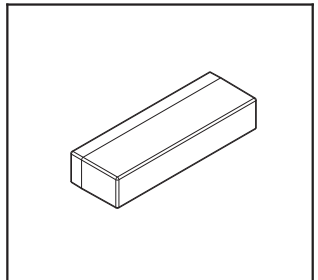

PJ6166 WATER TUBE,D6xd3x300

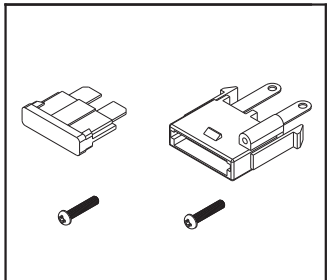

PJ6167 WATER TUBE,D7xd4x220


PJ6168 BOTTOM PLATE

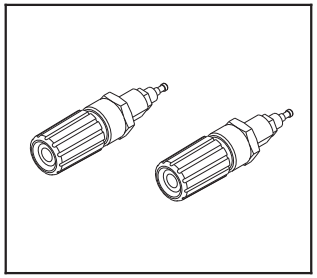

PJ6169 LINKAGE ROD SET


PJ6170 HANDLE BAR

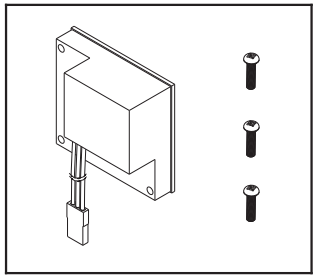

PJ6171 PB-ACID BATT.,12V/2.2Ah


PJ6172 FUSE HOLDER

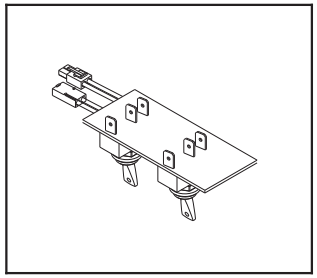
SUBMARINE PART LIST



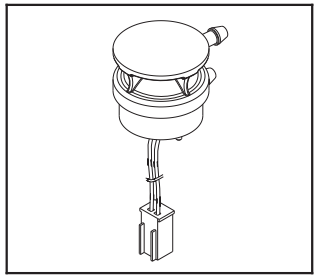
PJ6173 BINDING POST



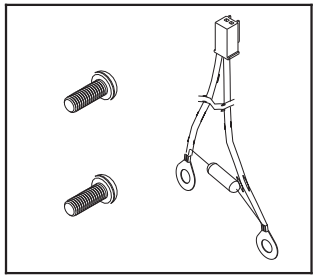
PJ6174 CONTROL PCB



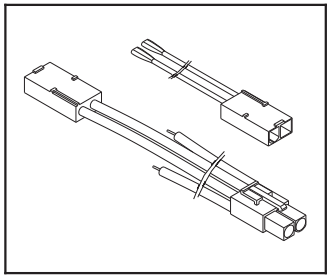
PJ6175 POWER DISTRIBUTION BOARD



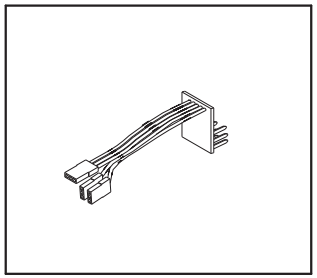
PJ6176 PRESSURE SENSOR



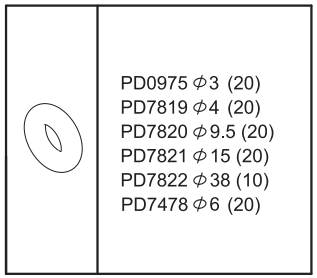
PJ6177 LEAKAGE SENSOR



PJ6178 BATT. CONNECT WIRE

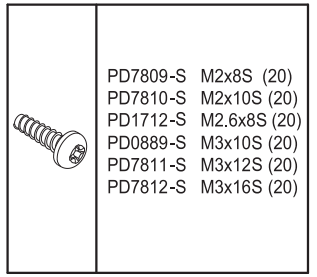


PJ6179 WIRE CONNECT CABLE



PD0975 Φ3 (20)
PD7819 Φ4 (20)
PD7820 Φ9.5 (20)
PD7821 Φ15 (20)
PD7822 Φ38 (10)
PD7478 Φ6 (20)

O-RING(20)

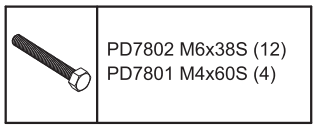


PD7809-S M2x8S (20)
PD7810-S M2x10S (20)
PD1712-S M2.6x8S (20)
PD0889-S M3x10S (20)
PD7811-S M3x12S (20)
PD7812-S M3x16S (20)

BT P.Tap Screw

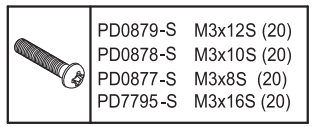


AT1956 PB BATTERY CHARGER 120V
AT1957 PB BATTERY CHARGER 230V/2P
AT1958 PB BATTERY CHARGER 230V/3P
AT1956-J PB BATT CHARGER 110V/12V



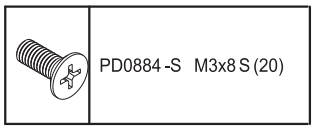
PD7802 M6x38S (12)
PD7801 M4x60S (4)

F.T P.Mach. Screw



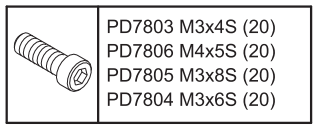
PD0879-S M3x12S (20)
PD0878-S M3x10S (20)
PD0877-S M3x8S (20)
PD7795-S M3x16S (20)

BT P. Mach. Screw



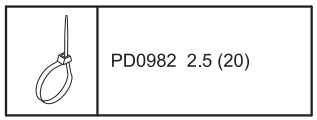
PD0884-S M3x8S (20)

F.T P.Mach. Screw,M3x8



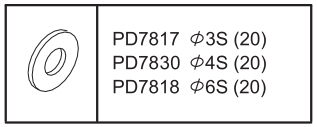
PD7803 M3x4S (20)
PD7806 M4x5S (20)
PD7805 M3x8S (20)
PD7804 M3x6S (20)

PDS.K Mach. Screw



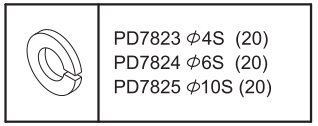
PD0982 2.5 (20)

Nylon Strap, Small



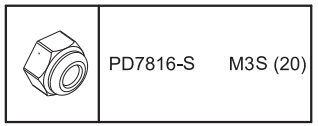
PD7817 Φ3S (20)
PD7830 Φ4S (20)
PD7818 Φ6S (20)

Washer



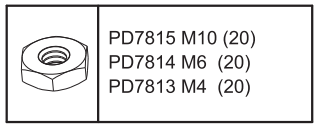
PD7823 Φ4S (20)
PD7824 Φ6S (20)
PD7825 Φ10S (20)

Spring Washer



PD7816-S M3S (20)

Lock Nut



PD7815 M10 (20)
PD7814 M6 (20)
PD7813 M4 (20)

Nut



PD7808 M3x4S (20)
PD0961 M3x3B (20)
PD7807 M3x3S (20)

Set Screw

NEPTUNE SB-1 PARTS LIST

MAR 2007

PART#	DESCRIPTION	NOTE
PJ6101	SEALED BOLT,SB1	
PJ6102	CONE RUBBER,SB1	
PJ6103	SWITCH LINKAGE ROD,SB1	
PJ6104	CONTROL LINKAGE ROD,SB1	
PJ6105	WATER INLET BOLT SET,SB1	
PJ6106	WATER PROOF BOLT SET,SB1	
PJ6107	MOTOR SET,550	
PJ6108	ROLL PUMP UNIT,SB1	
PJ6109	MOTOR MOUNT,SB1	
PJ6110	BALLAST TANK,SB1	
PJ6111	WATER TUBE CONNECTOR,SB1	
PJ6112	PROPULSION MOTOR,SB1	
PJ6113	PROP. MOTOR MOUNT,SB1	
PJ6114	DRIVE CUP&SHAFT SET,SB1	
PJ6115	PROP DRIVE SHAFT,SB1	
PJ6116	FR/RR FLANGE,SB1	
PJ6117	SERVO&H.W MOUNT,SB1	
PJ6118	ROUND FRAME SET,SB1	
PJ6119	SEMI-ROUND FRAM SET,SB1	
PJ6120	SWITCH MOUNT PLATE,SB1	
PJ6121	OUTER RING FRAME,SB1	
PJ6122	FR COVER PLATE,SB1	
PJ6123	RR COVER PLATE,SB1	
PJ6124	HULL MAIN TUBE,SB1	
PJ6125	FR MARINE CANOPY,SB1	
PJ6126	FR CABIN,SB1	
PJ6127	CABIN WINDOW,SB1	
PJ6128	OUTER HULL(L),SB1	
PJ6129	OUTER HULL(R),SB1	
PJ6130	HULL WINDOW,SB1	
PJ6131	HULL WINDOW FRAME,SB1	
PJ6132	TOP CABIN FRAME,SB1	
PJ6133	TOP MARINE CANOPY,SB1	
PJ6134	RR RUDDER BARCKET,SB1	
PJ6135	TAIL FIN,SB1	
PJ6136	RR CONE FRAME,SB1	
PJ6137	FR ELEVATOR BRACKET,SB1	
PJ6138	FR ELEVATOR SET,SB1	
PJ6139	RR ELEVATOR SET,SB1	
PJ6140	CONTROL ARM SET,SB1	
PJ6141	SERVO HORN&ROD,SB1	

PART#	DESCRIPTION	NOTE
PJ6142	LINKAGE ROD MOUNT,SB1	
PJ6143	SCREW ROD(M6),L420	
PJ6144	SCREW ROD(M4),L340	
PJ6145	SCREW ROD(M4),L240&L210	
PJ6146	PLASTIC TUB(6),L60	
PJ6147	PLASTIC TUB(10),L30	
PJ6148	PLASTIC TUB(8),L2&L6	
PJ6149	ALUM. TUBE(4),L150	
PJ6150	ALUM. TUBE(2),L101	
PJ6151	ALUM. TUBE(4),L96	
PJ6152	ALUM. TUBE(2),L41	
PJ6153	ALUM. TUBE(2),L38	
PJ6154	FR ELEV. MOUNT TUBE,SB1	
PJ6155	RR ELEV. MOUNT TUBE,SB1	
PJ6156	HEX MOUNT BOLT,SB1	
PJ6157	WEIGHT MOUNT ROD,SB1	
PJ6158	3 BLADE PROP,D40xP41	
PJ6159	WEIGHT/A,D38xL32	
PJ6160	WEIGHT/B(2),D45xL30	
PJ6161	ORING(2),dxD	
PJ6162	ORING(2),dxD	
PJ6163	SEALED RUBBER/L(2),SB1	
PJ6164	SEALED RUBBER/S(4),SB1	
PJ6165	CONE RUBBER(20),SB1	
PJ6166	WATER TUBE,D6*d3*300	
PJ6167	WATER TUBE,D7*d4*220	
PJ6168	BOTTOM PLATE,SB1	
PJ6169	LINKAGE ROD SET,SB1	
PJ6170	HANDLE BAR,SB1	
PJ6171	PB-ACID BATT.,12V/2.2Ah	
PJ6172	FUSE HOLDER,SB1	
PJ6173	BINDING POST,SB1	
PJ6174	CONTROL PCB,SB1	
PJ6175	POWER DISTRIBUTION BOARD	
PJ6176	PRESSURE SENSOR,SB1	
PJ6177	LEAKAGE SENSOR,SB1	
PJ6178	BATT. CONNECT WIRE,SB1	
PJ6179	WIRE CONNECT CABLE,SB1	
PD7801	Hex Head Screw,M4	
PD7802	Hex Head Screw,M6	
PD7803	S.K Mach. Screw, M3x4	

PART#	DESCRIPTION	NOTE
PD7804	S.K Mach. Screw, M3x6	
PD7805	S.K Mach. Screw, M3x8	
PD7806	S.K Mach. Screw, M4x5	
PD7807	S.K Mach. Screw, M3x3	
PD7808	Set Screw, M3x4	
PD7809-S	BT P. Tap . Screw,M2x8	
PD7810-S	BT P. Tap . Screw,M2x10	
PD7811-S	BT P. Tap . Screw,M3x12	
PD7812-S	BT P. Tap . Screw ,M3x16	
PD7813	Nut,M4	
PD7814	Nut,M6	
PD7815	Nut, M10	
PD7816-S	lock nut	
PD7817	Washer,Ø3	
PD7818	Washer,Ø6	
PD7819	O ring	
PD7820	O-ring	
PD7821	O-Ring	
PD7823	Spring Washer, 4mm	
PD7824	Spring Washer, 6mm	
PD7825	Spring Washer, 10mm	
PD7830	Washer,Ø4	
AT1956	PB BATTERY CHARGER 120V	
AT1957	PB BATTERY CHARGER 230V/2P	
AT1958	PB BATTERY CHARGER 230V/3P	
PD0884-S	F.T P.Mach. Screw,M3x8	
PD0877-S	BT P. Mach. Screw,M3x8	
PD0878-S	BT P. Mach. Screw,M3x10	
PD0879-S	BT P. Mach. Screw,M3x12	
PD0889-S	BT P.Tap Screw,M3x10	
PD0961	Set Screw, M3x3	
PD0975	O-Ring	
PD0982	Tie Rod	
PD1712-S	BT P.Tap Screw,M2.6x8	
PD7795-S	BT P. Mach. Screw,M3x16	
AT1596-J	PB BATT CHARGER, 100V/12V	
PD7478	R-RING, Ø6 X2(20)	

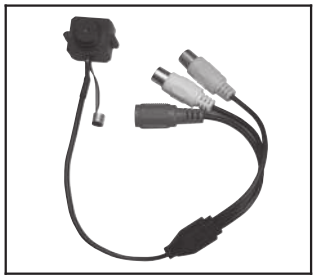
NEPTUNE SB-1 PARTS LIST

MAR 2007

OPTIONAL PARTS LIST

PART#	DESCRIPTION	NOTE
AQ1285	CCD CAMERA SET	
AQ1701	VIDEO RECEIVER	
PJ6181	CAMERA CABLE PLUG SET	
PJ6182	6 BLADE PROP,D40xP41	
PJ6183	WEIGHT(4),D45xL2	
AT0320	VIDEO CABLE,15M	
8051	SPEED CONTROLL, VELOCI RS-M	
8603	SEA COMMANDER,T6M	
8114	STD SERVO / S1903	
AC1746-1	AV RECEIVER BRACKET,SEA COMMANDER	
AC1746	AV RECEIVER BRACKET,SKY MASTER	

SUBMARINE OPTIONAL PARTS LIST



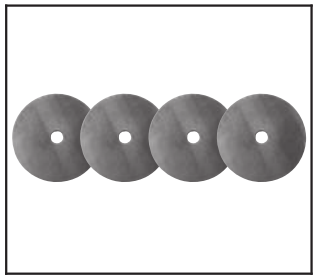
AQ1285 CCD CAMERA SET



AQ1701 VIDEO RECEIVER



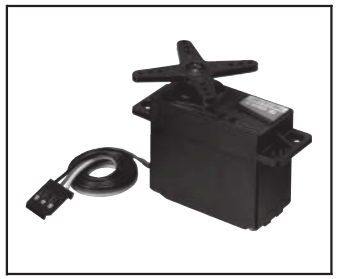
PJ6182 6 BLADE PROP,D40xP41



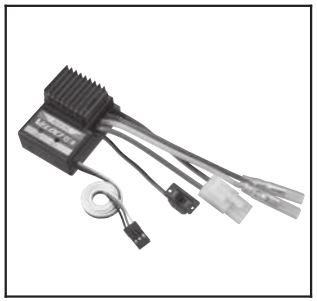
PJ6183 WEIGHT(4),D45xL2



AT0320 VIDEO CABLE,15M



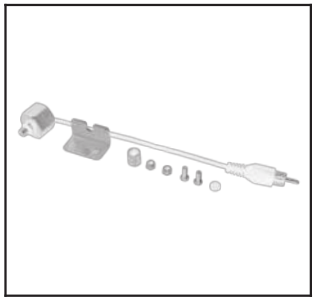
8114 STD SERVO / S1903



8051 SPEED CONTROLL,
VELOCI RS-M



8603 SEA COMMANDER,T6M



PJ6181 CAMERA CABLE PLUG SET

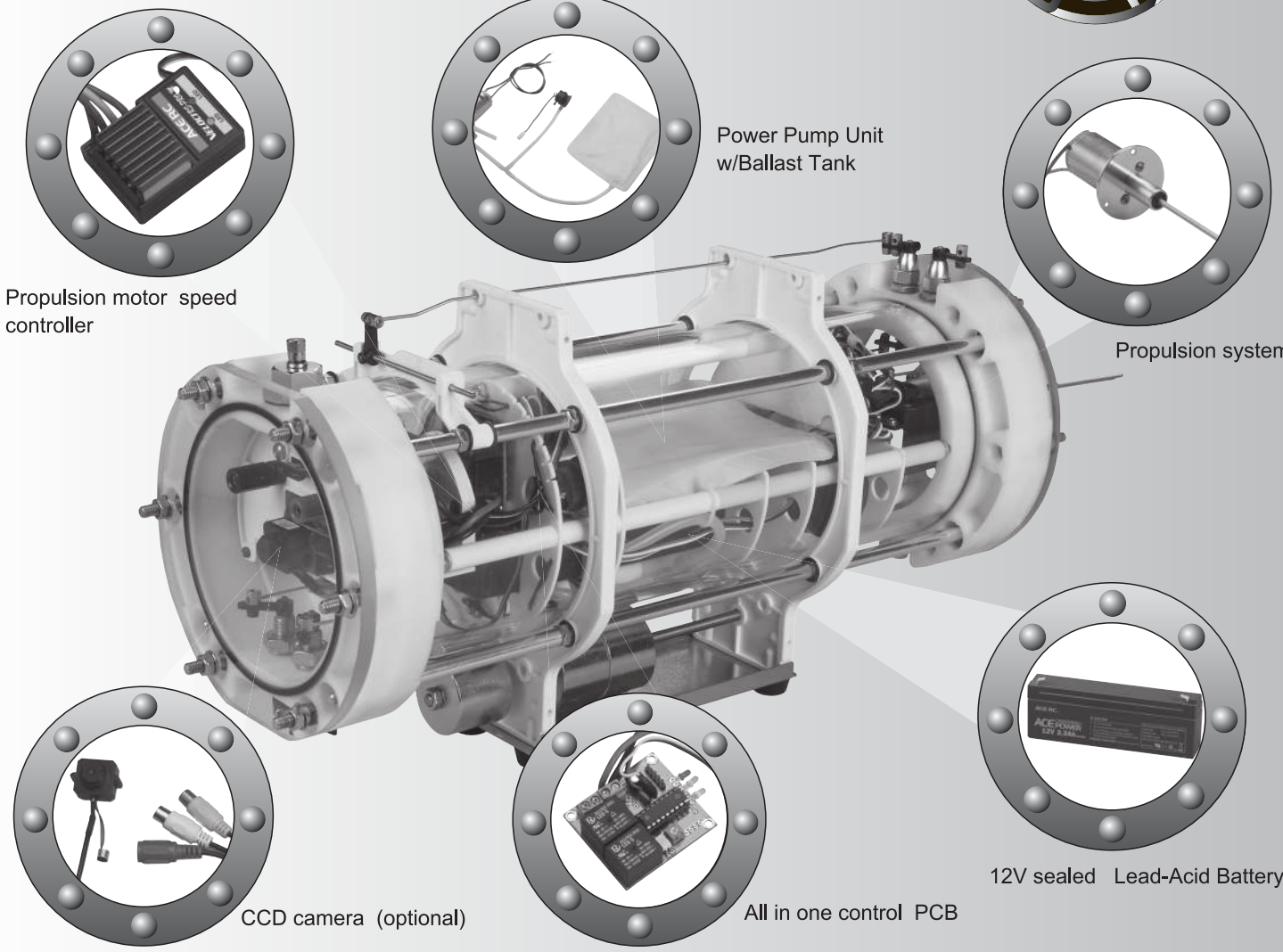


AC1746-1 AV RECEIVER BRACKET,SEA COMMANDER
AC1746 AV RECEIVER BRACKET,SKY MASTER

Thunder Tiger

Static-Diving Submarine

NEPTUNE SB-1



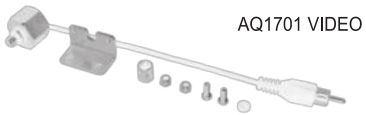
ACCESSORIES RECOMMENDED



AQ1285 CCD CAMERA SET



AQ1701 VIDEO RECEIVER



PJ6181 CAMERA CABLE PLUG SET



AT0320 VIDEO CABLE,15M



AC1746-1 AV RECEIVER BRACKET,SEA COMMANDER
AC1746 AV RECEIVER BRACKET,SKY MASTER



1120 Body Reamer



No.1103
Hex Driver Set



No.1197
14 in 1 Interchange Screwdriver

JJ6072.V4