



THE POWER OF PARTNERSHIP

P-8 CAPABILITIES

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	<p>Sparton is the world leader in the design, development, testing and production of complex maritime electronic systems, including sonobuoys in support of Anti-Submarine Warfare (ASW) and maritime capabilities supporting Undersea Warfare (USW).</p>
	<p>Parker Aerospace delivers innovative technologies and systems that support mission-critical defense industry solutions, enabling safe, efficient and more sustainable flight throughout the full aircraft lifecycle.</p>
	<p>Martin Baker has been the world leader in the design and manufacture of ejection and crashworthy seats for over 79 years. A family-run business at our core, we've saved over 7,700 lives in our time and have been honoured to receive 11 queen's awards. Our latest designs offer unprecedented life-saving capabilities, with over 16,500 seats currently in service.</p>
	<p>Marathon Norco engineers, manufactures, and markets specialty power transmission products as well as a wide range of mechanical hold open rods and special coupling devices.</p>
	<p>Adams Rite Aerospace has over 80 years experience offering door latching systems, flight controls, door handles, and oxygen tanks, masks, and regulators.</p>
	<p>Triumph specializes in the design, development, certification, manufacture and repair of fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.</p>

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AN/SSQ-62F DICASS SONOBUOY ACTIVE DIRECTIONAL

The AN/SSQ-62F is a sixth-generation, Directional Command Active Sonobuoy System (DICASS) sonobuoy used for detecting and localizing submarines in preparation for attack. This GPS capable Sonobuoy requires Command Function Select (CFS).

The DICASS Sonobuoy is capable of providing both range and bearing to the target for accurate position fixing. Like the AN/SSQ-62E, the AN/SSQ-62F sonobuoy is capable of supporting any of the four acoustic frequencies as selected via the Electronic Function Select.

The AN/SSQ-62F also incorporates Command Function Select, which permits the operator to modify the sonobuoy's mode of operation after it has been deployed.

The AN/SSQ-62F has added GPS location capabilities. The Sonobuoy transmits the GPS messages requested by CFS on a subcarrier centered at 33.5 KHz.

The AN/SSQ-62F is air launchable from fixed or rotary-wing aircraft or can be deployed from the deck of a surface vessel. The descent of the sonobuoy is stabilized and slowed by a parachute.

- All Digital Design
- CSG or CFS Commandable
- High-power 97-channel RF Transmitter
- CFS Commandable
 - RF channel, additional depths, sonic frequency, GPS, etc.



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DESCRIPTION	AN/SSQ-62F DICASS SONOBUOY
NSN	5845-01-628-5054
PHYSICAL CHARACTERISTICS	
Weight	19.5 kg (43 lbs)
Sonobuoy Launch Container	LAU-126/A
PERFORMANCE DATA	
RF Command Receiver	UHF - Single Channel
RF Transmitter Power Output	1 W minimum
RF Transmitter Operating Frequency	97 Channel Selectable (136.000 to 173.500 MHz)
RF Transmitter Frequency Stability	±25 kHz
Multiplexed Composite consisting of OmniDirect summation
Directional Data (2 Channels)Suppressed carrier quadrature modulated on subcarriers
SonarSelectable acoustic channel (1 of 4)
Sonic Frequencies (any selectable from a single AN/SSQ-62F)	A: 6.5 kHz, B: 7.5 kHz, C: 8.5 kHz, D: 9.5 kHz
Operating Life	1 hour minimum
Operating Depth	D1: 15m, 46m, 92m (50', 150' or 300') D2: 27m, 120m or 460m (90', 400', or 1500') Commandable to 46m and 92m or 120m and 460m
Transducer Array	Piezoelectric Ceramic Omni directional Transmit/Directional Receive
Shelf Life	5 years in sealed container
Selections (Depth and RF Channel).	Electronic Function Select
Selections (Depth, Acoustic Channel, GPS, RF Channel)	Command Function Select

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AN/SSQ-53G DIFAR SONOBUOY PASSIVE DIRECTIONAL

The AN/SSQ-53G DIFAR US Navy A-size sonobuoy combines a passive directional and calibrated wide-band omni capability into a single multi-functional sonobuoy. This DIFAR sonobuoy has a GPS capability that requires Command function Select (CFS) for GPS operation. GPS is initially off at splash.

This sonobuoy features both Electronic Function Select (EFS) for use prior to loading and launching and Command Function Select (CFS) to allow the operator to modify the sonobuoy's modes of operation after it has been deployed in the water. These functions allow the operator to select operating mode (sensor selection), buoy life, depth setting, AGC level and RF channel.

The AN/SSQ-53G can operate in four acoustic sensor modes that are selectable via EFS or CFS. A Constant Shallow Omni (CSO) provides acoustic information at a fixed depth of 45 ft (13.7 m) while a Calibrated Omni (CO) co-located with the DIFAR sensor provides acoustic information at a selectable operational depth. The Calibrated Omni sensor can operate with acoustic bandwidths of 20 KHz (CO) or 40 KHz (XCO). The buoy amplifies the underwater acoustics and provides directional data necessary to establish bearing to the energy source.

The AN/SSQ-53G has GPS location reporting capabilities to transmit formatted messages. The Sonobuoy transmits the GPS messages per CFS commands on a subcarrier centered at 33.5 KHz for CSO, CO, and DIFAR modes or centered at 45 KHz for XCO mode.

The AN/SSQ-53G is air launchable from fixed or rotary-wing aircraft or can be deployed from the deck of a surface vessel. Descent of the sonobuoy is stabilized and slowed by a parachute.

- Acoustic Sensor Selections - CSO, CO, XCO, DIFAR
- EFS Selectable - RF Channel, Life, Depth, Sensor, AGC Level
- CFS Commandable - RF Channel, Life, Sensor, GPS, AGC Level



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DESCRIPTION	AN/SSQ-53G DIFAR SONOBUOY
NSN	5845-01-630-5313
PHYSICAL CHARACTERISTICS	
Weight	8.98 kg (20 lbs)
Sonobuoy Launch Container	LAU-126/A
PERFORMANCE DATA	
RF Command Receiver	UHF - Single Channel
RF Transmitter Power Output	1 W minimum
RF Transmitter Operating Frequency	97 Channel Selectable (136.000 to 173.500 MHz)
Sensors / Audio Frequencies	CSO (30 to 5000 Hz) CO (5 to 20 KHz) DIFAR (5 to 2400 Hz) XCO (5 to 40 KHz)
Operating Life	0.5, 1.0, 2.0, 4.0, or 8.0 hours
Operating Depth	D1: 27 meters (90 ft) D2: 61 meters (200 ft) D3: 122 meters (400 ft) D4: 305 meters (1000 ft)
EFS Selections	RF, Life, Depth, Sensor, and AGC
CSF Selections	RF, Life, Sensor, GPS, and AGC
Launch Altitude	12 to 9144 meters (40 to 30,000 ft)
Launch Speed	0 to 370 KIAS
Shelf Life	5 years in sealed container

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MILITARY & COMMERCIAL COMPONENTS

P/N	DESCRIPTION	NSN	USE
100-0016-01	VALVE, PURGE	01-579-2719	C
2020138-101	DISTRIBUTION SYSTEM, NITROGEN ENR	01-585-4931	C
2030157-102	MODULE-AIR SEPERATI	01-607-4817	C
2030172-101	FLOAT CHECK	01-609-9156	C
2660608M2	FUEL BOOST PUMP REM	01-585-4986	C
2670282M2	VLAVE, FLOAT	01-242-4978	C
2760000-101	NRP, SHUTOFF DUCT AN	01-609-9114	C
2790475-103	VALVE, SAFETY RELIEF	01-515-7333	C
2910024-102	NRP, SHUTOFF, FUEL SC	01-619-9173	C
3-111794	VALVE, CHECK		C
382000-1001	CYLINDER ASSEMBLY, ACTUATING, LINEAR	01-573-4966	C
383900-1011	VALVE ASSEMBLY, MANIFOLD	01-573-0816	C
394100-1003	VALVE, LINEAR, DIRECTIONAL CONTROL	01-577-6213	C
419300-1003	CYLINDER ASSEMBLY, ACTUATING, LINEAR	01-573-0793	C
57186-10	PUMP UNIT, HYDRAULIC	01-573-5971	C
63169	PUMP UNIT, AXIAL PISTONS	01-576-8069	C
2000122-102	FUEL / NO AIR VALVE	1680-01-610-9197	M
2060023-102	PRESSURE FUELLING ADAPTER	1680-01-609-8961	M
2060024-101	ASM	1680-01-585-4966	M
2070115-101	PRESSURE CONTROL VALVE	1680-01-585-4956	M
2070165-101	IPP SOV	1680-01-585-4957	M

P/N	DESCRIPTION	NSN	USE
2760117-706	UARRSI	1680-01-585-4998	M
454300-1001	HYDRAULIC CONTROL MODULE	1680-01-585-5108	M
454600-1003	ELECTRONIC CONTROL UNIT	1680-01-585-5112	M
454600-1005	ELECTRONIC CONTROL UNIT	1680-01-628-5772	M
454700-1001	UPLOCK ASSEMBLY	1680-01-585-5094	M
454800-1009	HYDRAULIC POWER DRIVE UNIT	1680-01-585-5100	M
454892-1003	MANUAL DRIVE ASSEMBLY - MDA	Not Assigned	M
456790-1001	PROXIMITY SENSORS	1680-01-585-5104	M
456791-1001	ROTARY GEAR ACTUATORS - RGA	1680-01-585-5110	M
456792-1003	ANGLE GEARBOX (LEFT) - AGB(L)	1680-01-589-5978	M
456792-1004	ANGLE GEARBOX (RIGHT) - AGB(R)	1680-01-589-0844	M
456793-1003	TORQUE SHAFT - 1003	1680-01-585-5123	M
456793-1005	TORQUE SHAFT - 1005	1680-01-585-5107	M
456793-1009	TORQUE SHAFT - 1009	1680-01-585-5116	M
456793-1011	TORQUE SHAFT - 1011	1680-01-642-3172	M
456794-1001	TORQUE COUPLER	1680-01-585-5118	M
456796-1003	RGA & OVERSPEED BRAKE LH	1680-01-627-6004	M
456796-1004	RGA & OVERSPEED BRAKE RH	1680-01-627-6003	M
456797-1001	FUSIBLE TORQUE SHAFT	1680-01-642-3171	M
468900-1001	MAIN CONTROL VALVE	1680-01-585-5124	M

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The Mission Seat is a highly versatile lightweight aircrew seat designed and manufactured by the world's most experienced manufacturer of crashworthy seats, aircraft escape systems, ejections seats and associated safety and survival equipment.

Martin-Baker Mission Seats have been qualified and certified for fixed wing aircraft, to numerous military and civilian specifications including (E)TSO-C39 & (E)TSO-C127 for CS25 aircraft. For military applications, the Mission Seat range has been successfully tested with occupant masses ranging between 63-113 kg (138-250 lb).



The user has 360° rotational adjustment that can be locked in 15° increments and up to seven inches of vertical height adjustment are also available as well as 25° of backrest recline adjustment and adjustable lumbar support. Seats are fitted with stowable armrests with 25° adjustment and padded headrests with approximately 3" of height and 60° angular adjustment. The seat translates on either AS/MS33601 type heavy duty floor track, or aircraft specific floor pallets to allow forward and rearward adjustment as well as lateral translation when pallet mounted.

Martin-Baker Mission Seat harnesses have quick release rotary buckles incorporating lost motion to prevent against inadvertent release. Lap, shoulder, and crotch strap (if selected) lengths are fully adjustable to accommodate 5th – 95th percentile occupants.

Specifications Summary

- Lightweight construction. 48.7 lb (22.1kg) to 56.7 lb (25.7kg) tested mass, depending on variant
- Installed or removed in less than one minute
- Integrates directly into AS/MS33601 track or pallet
- Rotates 360° in lockable 15° increments
- 7" Vertical height adjustment
- 25° Recline adjustment
- Stowable & 25° adjustable armrests
- 3" Height & 60° angular adjustable padded headrest
- Translates forward, rearward and laterally when pallet mounted
- Variety of seat upholstery options
- Under seat immersion suit stowage
- Environmentally tested to MIL-STD-810 or equivalent

P/N	DESCRIPTION	NSN
MBCS13227	REEL, SHOULDER HARNESS, INERTIA	1680-01-537-2665
MBCS12490-1BA0	SEAT,AIRCRAFT	1680-99-669-1474
MBCS12390-1BA0	SEAT,AIRCRAFT	1680-99-840-8152
MBCS12488-1BA	CUSHION,SEAT,AIRCRAFT	1680-99-408-5232
MBCS12670-1AA0B	REPAIR: SEAT, AIRCRAFT	1680-99-727-5676
MBCS12274	CABLE ASSEMBLY,SPEC	6150-01-628-8549
MBCS12272	CABLE ASSEMBLY,SPECIAL PURPOSE,E	6150-01-627-5151
MBCS12609	STRUT	5340-99-217-4759
MBCS13077	LOWER FRAME, BASE, LH	1680-99-614-3641
MBCS12278	GUARD,AIRCRAFT TURB	1680-99-350-9200
MBCS13990	FRAME ASSY INTERFAC	1680-LL-F02-N139

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P/N	DESCRIPTION	NSN
A3485-4	ROD ASSY	1560-01-579-2721



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Adams Rite Aerospace

P/N	DESCRIPTION	NSN
AR13-3T4619	KEY	5340-01-524-0501



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P/N	DESCRIPTION	NSN
UA538551-3	COOLER - IDG OIL	2935-01-579-3033



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