











THE POWER OF PARTNERSHIP

# AH-64 CAPABILITIES



	<p><b>Collins Aerospace</b> excels in avionics, lighting systems, power transmission systems, wheels and brakes, and landing gear systems, which include the main, nose and wing landing gear assemblies.</p>
	<p><b>Woodward</b> is a manufacturer of control systems and control system components for aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment.</p>
	<p><b>Adams Rite Aerospace</b> has over 80 years experience offering door latching systems, flight controls, door handles, and oxygen tanks, masks, and regulators.</p>
	<p><b>Robertson Fuel Systems</b> develops crashworthy fuel systems, using research to develop systems that extend range with self-sealing capability, preventing post-crash fires and ballistic threats to save lives on the battlefield.</p>
	<p><b>Aero Fluid Products</b> offers a variety of valves including hydraulic, engine, pneumatic, bleed air, anti-ice, pressure regulating, and fuel along with cabin pressure controls and electromechanical and linear actuators.</p>
	<p><b>BAE Systems</b> is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.</p>
	<p><b>ColumbusJACK/Regent</b> supplies high-quality hydraulic jacks and lifting systems ensuring safe and efficient lifting, positioning, and maintenance of heavy equipment and structures.</p>
	<p><b>Hartwell</b> is a leader for latches and latching systems including engine cowlings, nacelles, and thrust reversers, as well as interior and exterior access panels, cargo doors, and interior stowage bins.</p>

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## POWER TRANSMISSION SYSTEMS

MODEL #	APPLICATION
19E202-2-CL84	BOEING AH-64AD MAIN 2/SS
19E202-2-CL85	BOEING AH-64AD MAIN 2/SS
19E202-2-CL86	BOEING AH-64AD MAIN 2/SS
19E203-2-CL98	BOEING AH-64AD TAIL 1/SS
19E203-1-CL107	BOEING AH-64AD TAIL 2/SS
19E203-4-CL96	BOEING AH-64AD TAIL 1/SS
19E203-5-CL95	BOEING AH-64AD TAIL 1/SS
19E203-2-CL97	BOEING AH-64AD TAIL 6/SS
19E204-3-CL103	BOEING AH-64AD TAIL 1/SS
19E205-3	BOEING AH-64A APU 1/SS



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OEM P/N	WOODWARD P/N	NOMENCLATURE	NSN
--	331200B	SCAN MIRROR RESOLVER	NONE
7-W11512128-1	3E5209A	COLLECTIVE COMMAND RESOLVER	3040-01-472-5444
--	CBRT201A	BRUSHLESS DC MOTOR	NONE
13084651	2W6203	AZIMUTH DRIVE	6105-01-184-5602
13080457	2W62171A	AZIMUTH DRIVE	6105-01-334-4949
13084719	2W6227A	AZIMUTH DRIVE	6105-01-485-6976
13084686	2W7200A	AZIMUTH DRIVE	6105-01-223-8926
13084679	2W201A	ELEVATION DRIVE	1270-01-223-8927
13084717	2W7210A	AZIMUTH DRIVE	6105-01-485-6973
13084718	2W7211A	ELEVATION DRIVE	1270-01-485-6975
--	6B6202C	LINEAR AMPLIFIER	N/A
13084017	8F6201A	PITCH DRIVE	6105-01-263-3581
13084018	8F6202A	YAW DRIVE	6105-01-263-3989
13084681	P12B	SHAFT BRAKE	6110-01-180-0303
--	P89B	IVD MIRROR DRIVE	6105-01-182-9494
13084046-1	R73A	DRIVE AMPLIFIER	6110-01-178-1142
--	R74A	DRIVE AMPLIFIER	6110-01-173-7158
--	T25A	NIGHT MIRROR SWITCH	6105-01-179-4571
7-318000011-5	41005630-105	ACTUATOR, PYLON	1650-01-263-7856

T-700 ENGINE- APACHE				
OEM P/N	WOODWARD P/N	NOMENCLATURE	PRODUCT GROUP	NSN
6068T97P07*	8061-443	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-344-5924
6068T97P09*	8061-452	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-365-6768
6068T97P13	8061-467	HYDRO MECHANICAL UNIT	FUEL SYSTEM	2915-01-492-3908
6068T97P17	8061-473	COMMON HMU	FUEL SYSTEM	2915-01-587-7242
4045T30G07	537P410-01	FUEL INJECTOR	COMBUSTION	2915-01-304-4299
4045T30G05	535P622-01	FUEL INJECTOR	COMBUSTION	2915-01-247-7136

\*OVERHAUL ONLY

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# AH-64 POWER CONTROL



*Adams Rite Aerospace*



PART NUMBER	NEW MODEL PART#	NSN	DESCRIPTION
53065-11	53065-27	1680-01-160-8008	QUADRANT ASSEMBLY
53065-17	53065-31	2995-01-467-5969	QUADRANT ASSY, PI
53065-19	N/A		QUADRANT, POWER CONTROL
53065-23	53065-27		QUADRANT ASSEMBLY
53065-25	N/A		QUADRANT ASSY, PI
53065-27	53065-31		QUADRANT, POWER CONTROL
53065-9	53065-27		QUADRANT ASSEMBLY
53066-11	N/A		QUADRANT, POWER CONTROL
53066-13	N/A	2995-01-496-9642	QUADRANT, POWER CONTROL
53066-3	53066-11	1680-01-169-5255	QUADRANT, CONTROL
53066-7	N/A	2995-01-426-3042	QUADRANT, POWER CONTROL
AR53251-3	N/A		QUADRANT, POWER CONTROL
AR53252-1	N/A		QUADRANT, POWER CONTROL

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# AH-64 CAPABILITIES



## ROBERTSON FUEL SYSTEMS

A HEICO COMPANY

### ATTACK MISSIONS CRASHWORTHY SURVIVABLE FUEL SYSTEMS

Robertson is proud to help safeguard AH-47 crews with battle-proven crashworthy fuel systems, each designed to the highest standards and built for self-sealing fuel containment, survivability and ease of installation.

### COMBO-PAK IASF INTERNAL AUXILIARY SYSTEM

	Average usable fuel 97 gals		Dimensions 48 x 39x 30in.		Estimated weight with restraint 312 lbs.
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- AIRCRAFTS: AH-64A/D/E APACHE
- 300 ROUNDS OF AMMUNITION, TO INCLUDE AMMUNITION IN THE CHUTE
- INSTALLATION AND REMOVAL IN APPROXIMATELY 30 MINS USING APACHE MAGAZINE AND AUXILIARY TANK TRANSFER SYSTEM (AMATTS)
- COCKPIT FUEL QUANTITY INDICATION SYSTEM
- SINGLE-POINT PRESSURE REFUELABLE WITH THE PRIMARY FUEL SYSTEM
- NITROGEN INERTING CAPABILITY USING HELICOPTER'S INERTING SYSTEM
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



#### SUPPORT EQUIPMENT

### FARE KIT

#### FORWARD AREA REFUELING KIT

- REFUELS OTHER AIRCRAFT OR GROUND VEHICLES WITH MULTIPLE FORWARD AREA REFUELING STATIONS FROM THE CARRYING AIRCRAFT
- SELF-PRIMING 120 GPM CENTRIFUGAL PUMP MODULE
- UTILIZES 115/200 VAC, 400 HZ, 3-PHASE AIRCRAFT AUXILIARY POWER
- 592 LBS.



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## RCEFS REDUCED SIZE CRASHWORTHY EXTERNAL FUEL SYSTEM

Average usable fuel 122 gals. /per tank	Dimensions 138 x 25in.	Estimated tank weight 290 lbs.
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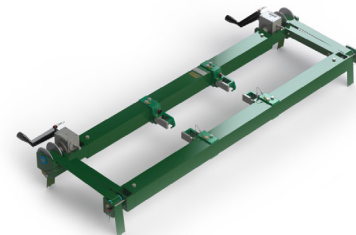
- AIRCRAFTS: AH-64A/D/E APACHE
- INSTALLATION OF UP TO 2 TANKS
- FUEL QUANTITY INDICATION SYSTEM
- SINGLE-POINT PRESSURE REFUELABLE WITH THE PRIMARY FUEL SYSTEM
- INSTALLATION AND REMOVAL IN APPROXIMATELY 15 MINS PER TANK USING THE RCEFS LIFTER PORTABLE LIFTING SYSTEM (CREW OF TWO)
- COCKPIT FUEL QUANTITY INDICATION SYSTEM
- CRASHWORTHY & SELF-SEALING IAW MIL-DTL-27422



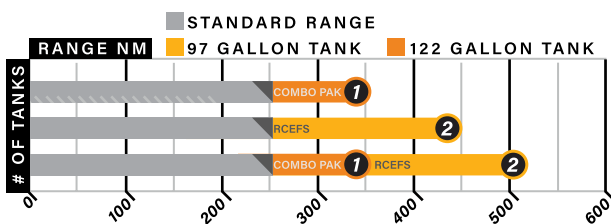
### SUPPORT EQUIPMENT

## RCEFS LIFTER

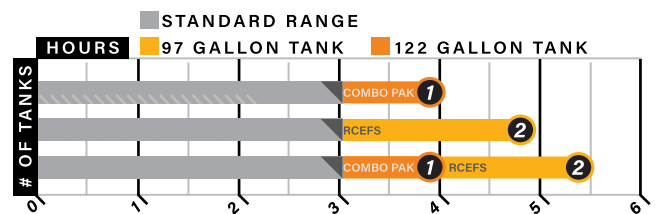
- A PORTABLE, SAFE AND EFFICIENT METHOD USED TO INSTALL EMPTY RCEFS TANKS APACHE AIRCRAFT
- ENABLES INSTALLATION BY TWO PERSONNEL IN APPROXIMATELY 15 MINUTES
- INCLUDES WHEELED STORAGE CONTAINER
- 95 LBS.



APPROXIMATE RANGE EXTENSION



APPROXIMATE ENDURANCE



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**AEROFLUID**PRODUCTS

PART NUMBER	NSN	DESCRIPTION
707604-1	1560-01-188-9143	COVER, MANIFOLD, FUEL
707623-1	4820-01-268-4031	POPPET, MANIFOLD
743900-11	4810-01-246-1382	VALVE, SOLENOID



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# AH-64 CAPABILITIES

## BAE SYSTEMS

### AIRCRAFT ARMOR SYSTEMS

Unique and lightweight ceramic, transparent and soft aircraft armor solutions for fixed-wing and rotary-wing aircraft

#### KEY FEATURES

- MONOLITHIC ARMOR TECHNOLOGY ACCOMMODATES CURVATURES AND SAVES WEIGHT
- VARIETY OF ARMOR SYSTEMS AVAILABLE TO MEET SPECIFIC REQUIREMENTS
- INDUSTRY LEADER IN INTEGRATION AND QUALIFICATION OF COMPLEX ARMOR SYSTEMS MEETING STRINGENT CRASH, ENVIRONMENTAL AND IMPACT REQUIREMENTS
- LIGHTEST WEIGHT CERAMIC ARMOR TECHNOLOGY AVAILABLE
- UNMATCHED TRANSPARENT ARMOR TECHNOLOGY



Monolithic Armored Wing Panel



Monolithic Floor Armor Panel



Monolithic Wall Armor Panel

BAE Systems prides itself on over 30 years of experience in developing and manufacturing lightweight composite armor protection systems for military aircraft. Utilizing our expertise in ceramic composite armor, BAE Systems introduced the first successful military armored crashworthy crew seat for the UH-60 Black Hawk aircraft in 1977.



Floor Armor

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## COMPREHENSIVE DEVELOPMENT CAPABILITIES AND HIGH VOLUME MANUFACTURING

- ARMOR AND COMPOSITE PRODUCTION AREAS ENCOMPASS MORE THAN 100,000 SQ. FT.
- WORK IS COMPLETED BY A TEAM OF SKILLED TECHNICIANS TRAINED IN COMPOSITE FABRICATION TECHNIQUES AND SPECIFIC PRODUCT REQUIREMENTS
- ARMOR PRE-FIT AND BONDING OPERATIONS
- IN-HOUSE BALLISTIC TEST LABORATORY
- IN-DEPTH UNDERSTANDING OF AIRCRAFT INTEGRATION AND QUALIFICATION REQUIREMENTS

## TRANSPARENT ARMOR

BAE SYSTEMS HAS DEVELOPED AND PATENTED, AND IS PRODUCING A NEW LIQUID-CASTABLE TRANSPARENT POLYURETHANE, CLEARGARD®\*, WHICH PROVIDES SUPERIOR BALLISTIC PERFORMANCE WITH OPTIMAL CLARITY.

CLEARGARD'S ADVANTAGES ARE CHARACTERIZED BY:

- UNMATCHED MONOLITHIC PERFORMANCE
- LOWER DENSITY THAN ACRYLIC OR POLYCARBONATE
- HIGH-IMPACT RESISTANCE
- EXCELLENT OPTICAL CLARITY
- HIGH DUCTILITY
- HIGH THERMAL AND CHEMICAL RESISTANCE
- COMPATIBLE WITH A VARIETY OF DYE PACKAGES AND COATINGS
- CASTABLE TO COMPLEX SHAPES OR SHEET FORM

## STANDARD ARMOR FEATURES

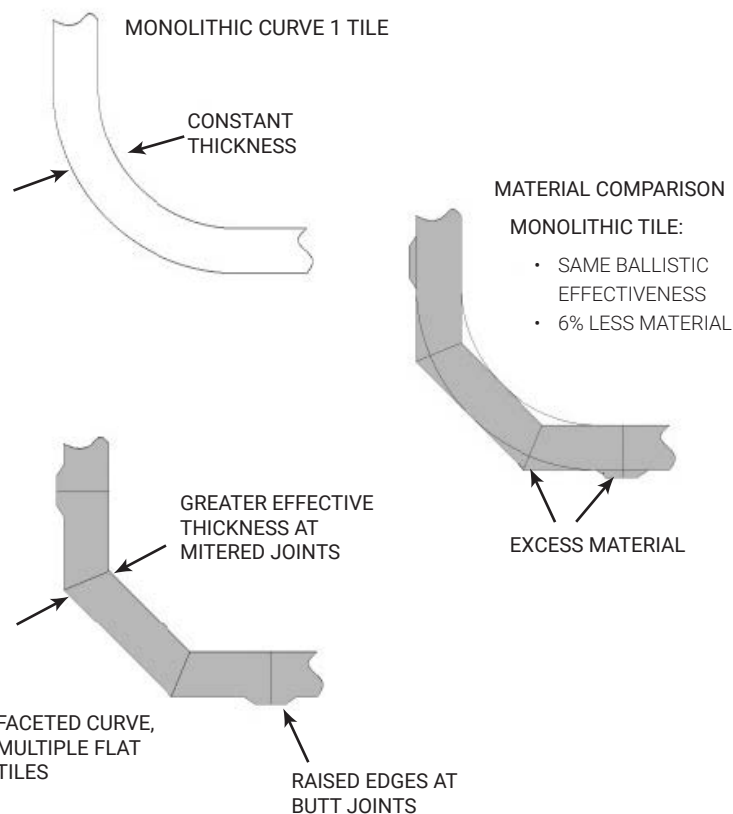
- LIGHTEST WEIGHT AND LOWEST AREAL DENSITY (WEIGHT PER UNIT AREA) IN THE INDUSTRY
- DEFEATS ARMOR PIERCING (AP) THREATS FOR 7.62 MM AND GREATER CALIBERS
- COMPLEX CURVATURES, UNUSUAL SHAPES AS WELL AS FLAT COMPONENTS
- FLEXIBILITY FOR HOLE SIZE AND LOCATION
- WIDE VARIETY OF QUALIFIED MOUNTING/ ATTACHMENT METHODS
- ENVIRONMENTALLY TESTED TO MIL-STD-810
- MEETS FAR 25 FLAMMABILITY REQUIREMENTS
- SECURED FOR CRASH AND IMPACT LOADS

## MONOLITHIC ARMOR

- OUR MONOLITHIC CERAMIC TECHNOLOGY ALLOWS FOR:
- MINIMUM AMOUNTS FOR MATERIAL FOR REDUCED WEIGHT
- ELIMINATION OF RAISED EDGES AND JOINTS
- MINIMIZED PARTS COUNTS AND COSTS
- RETAINED MULTI-HIT PERFORMANCE



## THE MONOLITHIC ADVANTAGE IS CLEAR:



\*Cleargard® is a registered trademark of BAE Systems

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## LEGACY SEATING

### PROVEN COMBAT PERFORMER FOR MILITARY AVIATORS OF THE WORLD

Since the introduction of the first successful military crashworthy crew seat in the UH-60 Black Hawk in 1977, BAE has earned the reputation as a pioneer in aerospace crash safety and combat survivability. Building upon their legacy brand, Simula, the BAE Systems team is dedicated to providing innovative, life-saving products to the rotocraft market. From military folding troop seats to FAA-certified lightweight crew and passenger seats to Presidential VIP seating BAE Systems is the provider of choice for the world's helicopter operators. The legacy seats are crashworthy and include armored options for military crew seating applications.

### SEAT MATRIX

Part Number	100900	100800	102330	101600	109800	104230	108300
Application	UH-60A/L Black Hawk	AH-64 Apache	SH-60/MH-60R Seahawk	V-22 Osprey	AH-1Z Cobra	AW101 Merlin	AW101 Merlin
Weight	116 lb (52.6 kg)	141 lb (64 kg)	47 lb (21 kg)	90 lb (41 kg)	101 lb (46 kg)	54 - 59 lb (24.9 - 26.8 kg)	117 lb (53 kg)
Qualification	MIL-Std-58095	MIL-Std-58095	MIL-Std-81771	MIL-Std-58095A	MIL-Std-81771	DEF-STAN-970	DEF-STAN-970
Features	<ul style="list-style-type: none"> <li>- Armored</li> <li>- Floor mounted</li> </ul>	<ul style="list-style-type: none"> <li>- Armored</li> <li>- Bulkhead mounted</li> <li>- Variable-load energy absorber available</li> </ul>	<ul style="list-style-type: none"> <li>- Unarmored</li> <li>- Uparmor kit available</li> <li>- Floor mounted</li> </ul>	<ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Bulkhead mounted</li> <li>- Adjustable armrest</li> </ul>	<ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Bulkhead mounted</li> </ul>	<ul style="list-style-type: none"> <li>- Unarmored</li> <li>- Variable-load energy absorber</li> <li>- Floor mounted</li> <li>- Restraint emergency release</li> <li>- Swivel base available</li> </ul>	<ul style="list-style-type: none"> <li>- Armored</li> <li>- Variable-load energy absorber</li> <li>- Floor mounted</li> <li>- Restraint emergency release</li> <li>- Armored wing panel available</li> </ul>

### TYPICAL DYNAMIC TEST CONDITIONS

TEST 1		TEST 2		TEST 3		Min G/tr	
Parameter	Limits	Parameter	Limits	Parameter	Limits		
Min. V m/sec (ft/sec)	15.2 (50)	Min. V m/sec (ft/sec)	15.2 (50)	Min. V m/sec (ft/sec)	12.8 (42)		
Max. tr/sec	0.043	Max. tr/sec	0.066	Max. tr/sec	0.0366		
Min. G	46	Min. G	28	Min. G	46		

**STANDARD FEATURES:** Crashworthy • Armored bucket provides 30-cal AP ballistic protection • 5-point restraint MA-16 inertia reel • Vertical adjustment  
Horizontal adjustment • Headrest

**OPTIONAL FEATURES:** Variable load energy-absorber • Ballistic protection up to 50-cal AP • Lightweight, unarmored bucket • Armored wing panels  
Adjustable armrest • Swivel

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## LOW PROFILE FLOTATION COLLAR

(LPFC)

BAE Systems' Life Preserver Unit (LPU) series of collars are the most advanced flotation collars manufactured today. Engineered for dependability and reliability, the LPUs have a proven performance history.

### FEATURES

- LOWER PROFILE AND SUPERIOR COMFORT OVER COMPARABLE SYSTEMS
- INCREASED NECK SIZE FOR GREATER MOBILITY
- CONSTRUCTION EXTENDS REPACK AND LOWERS INSPECTION CYCLE
- REDUNDANT FLOTATION CELLS ORIENT WEARER FACE-UP IN WATER (AUTO-ROTATION)
- BUOYANCY CELL DESIGN SUPPORTS 67 LB (30 KG) OF STEEL
- MODULAR COMPONENTS, REDUCE SPARES COSTS
- ADAPTS TO EXISTING VESTS AND RECOVERY PARACHUTE HARNESSES
- USES IN-SERVICE, WATER-SENSING AUTO-INFLATORS\*
- MANUAL INFLATOR ENABLES USER EGRESS BEFORE DEPLOYMENT



	LPU 33/P	LPU 34/P	LPU 36A/P	LPU 37A/P	LPU 38/P	LPFT3H
P/N- Packed	-	0103100-3	-	0111100-3	-	0101100-1
P/N- Kit	0102200-1 <sup>1</sup>	0103200-3	0110200-1	0111200-3	0115200-1 <sup>2</sup>	0101200-1
NSN- Kit	-	4220-01-483-4390	4220-01-483-9381	4220-01-520-8058	4220-01-510-8555	-
Inflator	Automatic	Manual	Automatic	Manual	Automatic	Manual
Color Options	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan	Green, Black, Tan
Qualification	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Navy	U.S. Air Force	U.S. Army
Notes	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3) Trainer system also available.	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)	Integrates with PCU-15/16 flight harness	Optional: leg straps (P/N 0103260-1) or waist harness (P/N 0101263-1/-3)

1. LPU 33/P and LPU 36A/P kits do not include FLU-8B/P automatic inflation device

2. LPU 38/P kit does not include FLU-9B/P automatic inflation device or CO<sub>2</sub> cylinders

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THE POWER OF PARTNERSHIP

# AH-64 CAPABILITIES



## MAINTENANCE CRANES



**MODEL 9319-010**  
1500 LB. PORTABLE FLOOR CRANE  
NSN: 3950-01-371-9144

## TRANSPORT TRAILER



**MODEL 5380-010**  
8,000 LB. CAPACITY  
Type 3000B; NSN: 1740-00-061-3039

## AIRCRAFT JACKS



**MODEL 810D110**  
25 TON TRIPOD JACK  
NSN: 1730-01-182-0231

## AIRCRAFT AXLE JACK



**MODEL 53D22004**  
10 TON AXLE JACK  
NSN: 1730-00-203-4697

## JACK TESTERS



**MODEL 7054-020**  
PORTABLE JACK TESTER

**MODEL 1013-8000**  
PORTABLE JACK TESTER

## BEAD BREAKERS



**MODEL 715J1000EX**  
NSN: 4910-01-267-7191

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Hartwell is the industry's first choice in the design and manufacture of quick access latching systems for aircraft and the first company that aircraft engineers call on for design assistance on all new latching applications.

Hartwell Corporation (83104) and Integrated Procurement Technologies have entered into an agreement to support military customer needs worldwide. This proactive partnership enables us to provide optimized solutions for high performance components to military operators around the world.

P/N	DESCRIPTION	NSN	P/N	DESCRIPTION	NSN
H117K1889	LATCH,SNAPSLIDE FASTENER	5325-01-182-8994	H603S073C114	LATCH,THUMB	5340-01-179-7363
H2952-1-080	CATCH,FLUSH	5340-01-250-6974	H603S073C133	LATCH,THUMB	5340-01-179-7362
H2990K3193			H603S073C145	LATCH,THUMB	5340-01-179-7361
H2990K3194	HINGE,BUTT	5340-01-471-3323	H603S073C163	LATCH,THUMB	5340-01-179-7360
H3135-5	CATCH,FLUSH	5340-01-241-1728	H603S073C173	LATCH,THUMB	5340-01-179-7364
H5000-2-040-102	CATCH,FLUSH	5340-00-201-1780	H603S073C191	LATCH,THUMB	5340-01-182-5135
H5000-2-040-125	CATCH,FLUSH	5340-00-530-7660	H6099DA040A	HINGE,BUTT	5340-01-182-9039
H5100-2-188-250			H738K1537	LATCH,SNAPSLIDE FASTENER	5325-01-184-1834
H600K1528	LATCH,MANIFOLD,FUEL	1680-01-195-0685	H739-15	CATCH,CLAMPING	5340-01-209-6556
H600SK1544	LATCH,SNAPSLIDE FASTENER	5325-01-182-8993			



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