

THE POWER OF PARTNERSHIP

F-16 CAPABILITIES

WOODWARD	**Woodward** is a manufacturer of F100 sprayrings, augmentors, F110 Main Engine Control, and T 2.5 sensors. Woodward also offers repair and overhaul capabilities for its units.
Collins Aerospace	**Collins Aerospace's** primary landing-gear products include Light Weight, Heavy Duty, Block 60 & 70 wheel and brake system. Collins Aerospace also offers turbine (PTO) shafts for power transmission systems.
Airborne Systems	**Airborne Systems** offers deceleration parachute systems on the F-16 in addition to their cargo delivery, personnel, rescue and survival, and recovery systems.
Extant AEROSPACE	**Extant Aerospace** offers the Combined Altitude Radar Altimeter (CARA) System and the Data Entry Display, along with other advanced avionics upgrades and solutions.
PACSCI EMC	**PacSci EMC** manufactures the canopy actuator release bolt (CARB). PacSci EMC also offer the drogue severance cutter and initiator cartridge actuated on the ACES II.
AEROFLUIDPRODUCTS	**Aero Fluid Products** 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.
Chemring Energetic Devices	**Chemring Energetic Devices** manufacturers the Joint Combined Aircrew Systems Tester (JCAST), ACAST, SCOT, CADPAD, and energetic components on the Advanced Concept Ejection Seat II.
TRIUMPH	**Triumph** manufactures and repairs the fuel/oil cooler and heat exchanger along with fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.
BEI PRECISION	**BEI** has advanced the technology of optical encoders and motion control systems. The BEI portfolio includes the industry's absolute best-in-class encoders, scanners, oscillators and accelerometers.
EnerSys Power/Full Solutions	**Enersys** manufactures the maintenance-free sealed lead acid valve regulated main battery for pre-block 40 and the post block 40/50 F-16.
TIMKEN	**Timken** engineers F-110 and F100 engine bearings including tapered, spherical, cylindrical, thrust, ball, plain, miniature, precision, and housed unit bearings.
BAE SYSTEMS	**BAE Systems** is a leading provider of ALE-47 countermeasure dispensing systems and test sets in addition to the low profile flotation collar LPU.
Columbus Jack A TRONAIR COMPANY	**ColumbusJACK/Regent** supplies high-quality hydraulic jacks, tire bead breakers, engine transportation trailers, and portable floor cranes.
ACES SYSTEMS	**Aces Systems** is a compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, transient balance, fan trim balance, propeller balance and acoustic analysis into one tool.

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F-16
F100 DEEC FUEL CONTROL SERVOVALVE

WOODWARD

REPAIR PROGRAM / MODULE KIT ALTERNATIVE

Woodward performs all repairs using the latest engineering updates and proprietary repair technology. Units are tested before shipping and covered by a 12-month warranty. IPT manages all customer support and logistics including ITAR control matters and accepting end-user contractual terms and conditions. Woodward's optimum repair technology and IPT's superior customer support and service ensure a long lasting repair increasing the MTBF along with pilot and aircraft safety.

PROGRAM OPTIONS FOR F-16 OPERATORS

- Request an overhaul to their own F100 DEEC Fuel Control Servovalve and purchase separately
- Purchase a Module Kit with a factory new (FN) Servovalve for depot use
- Request a Module Kit with an OHC F100 DEEC Fuel Control Servovalve
  - » Own OHC Servovalve or purchased separately

CAGE CODE	P/N	DESCRIPTION	NSN
81873	20105030-101	MODULE-KIT	2915-01-224-0747
81873	20105040-101	MODULE-KIT	2915-01-224-0746
81873	20105070-101	MODULE-KIT	2915-01-224-0753
81873	20105080-101	MODULE-KIT	2915-01-222-6311
81873	20105090-101	MODULE-KIT	2915-01-226-1046
81873	20105100-101	MODULE-KIT	2915-01-244-5400
81873	22282410-102	SERVOVALVES	4810-01-222-3823

MODULE KIT INCLUDES: PLATE, ENGINE MOUNT SCREWS, O RINGS, AND BACKUP

CAGE CODE	P/N	DESCRIPTION	NSN
81873	22282380-102	SERVOVALVES	4810-01-223-3355
81873	22282390-102	SERVOVALVES	4810-01-221-7569
81873	22282400-102	SERVOVALVES	4810-01-223-3356
81873	22282420-102	SERVOVALVES	4810-01-223-3357
81873	22282430-102	SERVOVALVES	4810-01-221-7568
81873	22281120-103	SERVOVALVES	
81873	22281130-103	SERVOVALVES	
81873	22281140-103	SERVOVALVES	

ENGINE	CAGE	P/N	DESCRIPTION	NSN
	19710	2R6216B	AUTOTHROTTLE SERVO	N/A
	19710	CBF226A	FRAMELESS BLDC STATOR	N/A
	19710	CBF227A	FRAMELESS BLDC ROTOR	N/A
	19710	E6A237C	PUMP MOTOR CONTROLLER	N/A
	19710	E6A237D	PUMP MOTOR CONTROLLER	N/A
	19710	E6A237E	PUMP MOTOR CONTROLLER	N/A
	19710	W39A	THROTTLE POSITION SENSOR	5990-01-264-6512
F110	19710	626200A	SIGNAL DATA CONVERTER	5895-01-388-6300
F110	19710	626202A, B	SIGNAL DATA CONVERTER	5895-01-388-6300
F110	19710	626202C	SIGNAL DATA CONVERTER	5895-01-458-7537
F100-200	65065	4074478	AUGMENTOR- SEGMENT 1	2915-01-352-4673
F100-200	65065	4074476	AUGMENTOR- SEGMENT 2	2915-01-353-3957
F100-200	65065	4071863	AUGMENTOR- SEGMENT 3	2915-01-348-8143
F100-200	65065	4073248	AUGMENTOR- SEGMENT 4	2915-01-352-4672
F100-200	65065	4071865	AUGMENTOR- SEGMENT 5	2915-01-352-4671
F100-220	65065	4085197	AUGMENTOR- SEGMENT 1	2915-01-471-1311
		4085197G	AUGMENTOR- SEG. 1 – SLF CLN	

ENGINE	CAGE	P/N	DESCRIPTION	NSN
F100-220	65065	4085198	AUGMENTOR- SEG. 2 – OLD	2915-01-471-3479
F100-220	65065	4081806	AUGMENTOR- SEG. 2 – NEW	2915-01-550-3637
		4085198G	AUGMENTOR- SEG. 2 – SLF CLN	
F100-220	65065	4071273	AUGMENTOR- SEG. 3 – OLD	2915-01-333-9601
F100-220	65065	4081814	AUGMENTOR- SEG. 3 – NEW	2915-01-550-3636
F100-220	65065	4071273G	AUGMENTOR- SEG. 3 – SLF CLN	
F100-220	65065	4073225	AUGMENTOR- SEG. 4 – OLD	2915-01-334-7068
F100-220	65065	4089329	AUGMENTOR- SEG. 4 – NEW	2915-01-333-9600
F100-220	65065	4073225G	AUGMENTOR- SEG. 4 – SLF CLN	
F100-220	65065	4071274G	AUGMENTOR- SEG. 5 – SLF CLN	
F100-220	65065	4084843	FUEL NOZZLE (UNSTAGED)	2915-01-454-3392
F100-220	65065	4084844	FUEL NOZZLE (STAGED)	2915-01-454-3393
F100-229	65065	4083569	FUEL NOZZLE	2915-01-447-4514
F100-229	65065	4082793-01	FAN SPRAYRING	2915-01-439-2368
F100-229	65065	4080672	MID CORE SPRAYRING	2915-01-384-9460
F100-229	65065	4084965-01	CORE SPRAYRING	2915-01-493-9532
	65065	4080672-01G	ASSY MID	

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ENGINE	CAGE	P/N	DESCRIPTION	NSN
	65065	4082793-01G	ASSEMBLY	
F110	65065	9557M73G02	SPRAY BAR	2915-01-191-8397
F110	65065	9557M74G02	SPRAY BAR	2915-01-191-6912
F110	65065	9557M75G02	SPRAY BAR	2915-01-191-8398
F110	65065	1465M10G01	SPRAY BAR	2915-01-266-5925
F110	65065	1465M16G04	SPRAY BAR	2915-01-310-2883
F110	65065	1465M17G04	SPRAY BAR	2915-01-310-5595
F110	65065	1465M18G04	SPRAY BAR	2915-01-310-2884
F110	65065	5054M72G01	SPRAY BAR	2915-01-191-8396
F110	65065	5054M72G08	SPRAY BAR	2915-01-390-8587
F110	65065	5054M72G09	SPRAY BAR	2915-01-481-8352
F110	65065	1452M64G01	IGNITER TUBE	4710-01-309-3158
F110	66503	1534M52P16	MAIN ENGINE CONTROL	2915-01-448-3117
F110	66503	1434M52P17	MAIN ENGINE CONTROL	New Model
F110	66503	1434M60P03	T 2.5 SENSOR	2915-01-310-2888
F110	66503	1434M60P04	T 2.5 SENSOR	2915-01-343-2931
F110	66503	1853M88P05	T 2.5 SENSOR	New Model
F110	66503	1853M88P06	T 2.5 SENSOR	New Model
F110	66503	1269M86P02	T 2.5 SENSOR	2915-01-485-7506
	66503	100116-003	VALVE, REGULATING	4810-01-086-5757
		26600134-3	SERVOACTUATOR	
		26600134-4	SERVO, SPEED BIAS CONTROL	
		2R6225A	AUTOTHROTTLE, SERVO	

ENGINE	CAGE	P/N	DESCRIPTION	NSN
		3B1218D	VALVE POSITION FEEDBACK	
		3T1204A	TRANSDUCER, PRES. SEALED	
F110		519P194-04	FUEL INSTALLATION	
F110		519P194-04G	FUEL , INSTALLATION, GOVT	
F110		519P195-02	FUEL, INSTALLATION	
PW229		519P292-01	INSTALL, FUEL, AERATING	
PW229		519P292-01G	FUEL INST., AERATING, GOVT	
PW229		526P843-01G	AUGMENTOR,MANIFOLD,SPRAY	
F100-220		527P133-01	MANIFOLD-SPRAY, AUG II,	
F100-220		527P133-01G	MANIFOLD-SPRAY, AUG II	
F100-220		527P134-01	4081814 MANF-SPRAY, AUG III	
F100-220		527P134-01G	4081814 MANF-SPRAY, AUG III	
F-100		528P538-01G	FUEL AUG. SPRAY BAR L/H	
F100-220		538P861-01	220 SEG IV	
F100-220		538P861-01G	220 SEG IV	
F110		8062-931	I.P.E MAIN ENGINE CONTROL	
F110		8062-934	IPE MAIN ENGINE	
F110		8901-277	FDT (XF 101-DFE-100)	
F110		8901-336	FDT IPE DUAL ELEMENT	
F110		8901-337	IPE FDT DUAL ELEMENT	
F110		8901-342	FDT IPE DUAL ELEMENT	
F110		8901-376	LONG CHORD BLISK FAN	
F110		8901-377	LONG CHORD BLISK FAN	

F100 ENGINE SPRAYRING

REPAIR PROGRAM

OVERHAUL

F100-200/220 SPRAY MANIFOLD ASSEMBLY SEGMENT 1

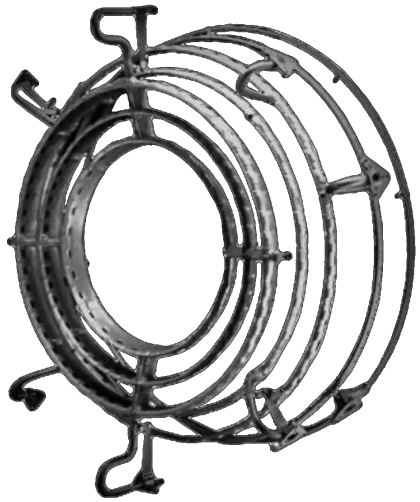
F100-200/220 SPRAY MANIFOLD ASSEMBLY SEGMENT 2

F100-200/220 SPRAY MANIFOLD ASSEMBLY SEGMENT 3

F100-200/220 SPRAY MANIFOLD ASSEMBLY SEGMENT 4

CONFIGURATIONS

F100-200/220 SPRAY MANIFOLD ASSEMBLY SEGMENT 5



PROGRAM OFFERINGS

- Minimum repair level as per TO 6J8-2-3:
  Evaluate, furnace clean, remove and replace heat shields if required.
  Adjust as needed to meet serviceable flow limits.
  Remove and replace bracket hardware.
- Based on evaluation results, Woodward will provide a breakdown of any other items that require replacement per TO 6J8-2-3.
- Breakdown of work provided by serial number.
- After TTE, a firm fixed repair price will be provided based only on those parts that are replaced. All replacement parts will be factory new.
- If end user decides not to proceed with the repair, only the TTE price will be charged.
- Current average turnaround time for this product is 16-24 weeks.
  Average FMS administrative lead-time through the Air Force is based on a three year average is 6 months.This can be avoided by coming through IPT.
- Woodward can update all F100-220 sprayrings to the latest configuration.

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F-16
WHEEL & BRAKE STOCKING PROGRAM

Collins Aerospace

F-16LW WHEELS AND BRAKES



Integrated Procurement Technologies stocks the F-16 Wheels and Brakes. IPT works with the end user to create a customized, needs-based delivery system. The goals are to:

- Help international F-16 LW operators prevent AOG situations while improving budget management.
- Deliver products on time and with optimum value.
- Provide a complete customer service package responding to spare requirements in an efficient and expedited manner

P/N	NSN	DESCRIPTION
2-1543	1630-01-394-2322	BRAKE ASSY
3-1506	1630-01-391-6571	MAIN WHEEL ASSY
537-28	1630-01-478-4076	HEAT SINK ASSY
133-936	1630-01-517-0446	DISK-STATOR
134-324	6110-01-517-0441	DISK-ASSY, ROTOR
541-2	2350-01-517-0567	PRESSURE PLATE ASSY
4-329	1630-01-456-9337	TORQUE PLATE ASSY
115-338	5970-01-459-1171	SPACER INSULATOR
130-17	1630-01-333-7586	BALL
148-550	5340-01-459-1210	BRACKET
170-254	5325-01-459-1197	DRIVE INSERT
170-628	5315-01-484-3223	DRIVE INSERT
170-629	5315-01-484-6265	DRIVE INSERT
245-589	5325-01-441-9559	RETAINING RING
266-246	1630-01-459-1209	PISTON HOUSING ASSY
324-38	5340-01-338-2920	CAP PLUG (SVC PART)
337-3	1630-01-517-0444	DISK & TORQUE BUTTON
349-7	1630-01-508-3181	BRAKE REFURBISHMENT KIT
378-45	1630-01-459-1199	1630-01-459-1199

P/N	NSN	DESCRIPTION
43-1355	5306-01-456-8696	BOLT
4-329	1630-01-456-9337	TORQUE PLATE ASSY
45-224	1630-01-335-2580	ADJUSTER TUBE
49-330	1630-01-332-5496	PLUG ASSY
53-224	5340-01-332-3578	CLIP
56-733-1	1630-01-455-7124	GREASE RETAINER
68-1025	4920-01-456-9341	INNER SEAL
68-1263	4320-01-329-9893	SEAL ASSY
68-1275	5330-01-343-3200	BACKUP PACKING
68-1296	5330-01-343-8497	OUTER SEAL ASSY
68-1367	5330-01-459-1203	BACKUP PACKING
68-1369	5330-01-459-1208	BACKUP PACKING
68-448	5331-00-841-5777	PREFORMED PACKING
72-336	1630-01-459-1202	HEAT SHIELD
74-863	1630-01-459-1205	PISTON
85-555	5320-01-437-6243	RIVET
85-602	5365-01-332-7050	RETAINING RING
85-604	5365-01-331-0083	RETAINING RING

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Collins Aerospace

F-16HD WHEELS AND BRAKES

P/N	DESCRIPTION
2-1523	BRAKE ASSY
3-1486	MAIN WHEEL ASSY
537-5	HEAT SINK ASSY
541-1	PRESS PLATE ASSY
133-883	STATOR DISK
134-290	ROTOR DISK ASSY
107-370	ADJUSTER ASSY
3-15050PT1	NOSE WHEEL ASSY
11-127	SIDE RIM
113-144	GUIDE SPRING
115-322	INSULATOR
115-323	PISTON INSULATOR
130-17	BALL
170-242	DRIVE INSERT
170-249	INSERT
170-594	DRIVE INSERT (SERVICE PART)
170-615	DRIVE INSERT (SERVICE PART)
20-609	ADJUSTER PIN
20-610	WEAR PIN
245-235	SCRAPER GUIDE RING
245-589	RETAINING RING
245-611	LOCK RING
26-373	SEAL BUSHING
26-375	AXLE BUSHING
26-445	BUSHING (SERVICE PART)
26-446	BUSHING (SERVICE PART)
266-233	PISTON HOUSING ASSY
274-206	INLET FITTING
11-127	SIDE RIM

P/N	DESCRIPTION
107-370	ADJUSTER ASSY
113-144	GUIDE SPRING
115-322	INSULATOR
115-323	PISTON INSULATOR
130-17	BALL
300-716	WHEEL BASE ASSY
300-752	WHEEL HALF ASSY (INNER)
300-753	WHEEL HALF ASSY (OUTER)
32-91	TORQUE BUTTON
324-38	CAP PLUG (SERVICE PART)
337-2	DISK/TRQ BTT'S ASSY
349-4	WHEEL REPAIR KIT (SERVICE PART)
349-5	BRAKE REPAIR KIT (SERVICE PART)
378-37	HEAT SHIELD
40-651	SPRING
407-12	OVERHAUL UNIT
489-23	KIT. WHEEL BEARING
489-24	KIT, BRAKE ASSY TOOL
43-1341	BOLT
4-320	TORQUE PLATE ASSY
45-224	ADJUSTER TUBE
49-138	THERMAL RELIEF PLUG
49-330	PLUG ASSY
49-335	ORIFICE PLUG
50-601	ID PLATE
50-754	INSTRUCTION PLATE
53-224	CLIP
53-274	ROTOR CLIP
54-450	PISTON SLEEVE

P/N	DESCRIPTION
54-452	SLEEVE
56-870	OUT.GREASE RETAINER
56-871	IN.GREASE RETAINER
56-872	RETAINER PIN
56-873	RETAINER SEAL
56-874	RETAINER CLIP
68-1262	SEAL ASSY
68-1275	BACKUP PACKING
68-1287	INNER SEAL ASSY
68-1288	PREFORMED PACKING
68-1289	BACKUP PACKING
68-1294	BACKUP PACKING
68-1296	OUTTER SEAL ASSY
68-1583	PREFORMED PACKING
72-323	HEAT SHIELD
72-324	OXIDATION SHIELD
72-329	HEAT SHIELD
74-847	PISTON
78-226	RIVET
78-328	RIVET
78-336	RIVET
85-600	RETAINING RING
85-602	RETAINING RING
85-604	RETAINING RING
85-624	RETAINING RING
97-131-2	BALANCE WEIGHT
97-64	BALANCE WEIGHT
97-78	BALANCE WEIGHT
489-23	KIT WHEEL BEARING

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Collins Aerospace

F-16 BLK60

P/N	DESCRIPTION
TR752-03	VALVE - INFLATION
322-91	TORQUE BUTTON
MS16625-4043	RING RETAINING
111-5	CONE - BEARING
300-1178	WHEEL HALF ASSY - OUTER
78-389	RIVET
M83485/1-318	PACKING - PREFORMED
115-322	SPACER INSULATOR
AS5169-08L	PLUG & BLEEDER SCREW THD
300-1179	WHEEL HALF ASSY - INNER
MS35207-260	SCREW,MACH-PAN HD,CROSS-
111-7	CUP - BEARING
78-336	RIVET
MS35338-43	WASHER, LOCK
3-1617	NOSE WHEEL ASSEMBLY
26-375	AXLE BUSHING
68-448	PREFORMED PACKING
SR192L	SLIMSERT
68-1288	PREFORMED PACKING
170-626	DRIVE INSERT
26-476	BUSHING
68-1296	OUTER SEAL ASSY.
MS27611	VALVE - HYDRAULIC BLEEDER
MS21043-3	NUT, HEX
252-173	TORQUE BAR
MS9245-25	PIN - COTTER
245-629	INNER RETAINING RING
74-975	PISTON
43-1341	BOLT
49-335	ORIFICE PLUG
378-146	HEAT SHIELD ASSY.
134-695	DISK AND TORQUE BUTTON
56-1161	CLIP RETAINER
56-1179	PIN RETAINER
MS24585-C229	SPRING - HELICAL
11-133	SIDE RIM
78-390	RIVET
78-405	RIVET
245-628	OUTER RETAINING RING
767-47	BUSHING
266-309	PISTON HOUSING ASSY.
349-10	WHEEL REFURBISHMENT KIT

P/N	DESCRIPTION
72-401	HEAT SHIELD
72-400	HEAT SHIELD
546-14	SPRING HOUSING
134-606	ROTOR DISK ASSY.
20-740	WEAR INDICATOR PIN
M83248/1-908	O-RING,RUBBER
20-736	ADJUSTER PIN
107-489	ADJUSTER ASSY.
111-10	CONE - BEARING
AS5169D04L	PLUG & BLEEDER SCREW THD
80-794	WASHER
56-870	OUTER GREASE RETAINER
111-3	BEARING CUP, OUTER
MS27612-8	ADAPTER - VALVE
245-639	RETAINING RING
MS16624-4050	RING,RETAIN,EXTERNAL,BSC
111-11	CUP - BEARING
300-921-1	WHEEL BASE ASSY.
53-363	PRESSURE PLATE CLIP
56-871	INNER GREASE RETAINER
68-1287	INNER SEAL ASSY.
63-558	NUT
M83485/1-202	PACKING - PREFORMED
537-89	HEAT SINK ASSY.
245-643	RETAINING RING
533-2	WEAR PIN ASSY.
56-1180	INSULATOR RETAINER
60-955	HEAT SHIELD SPACER
NAS1149C0463R	WASHER, PLAIN
40-743	SPRING
541-43	PRESSURE PLATE ASSY.
54-616	ADJUSTER SLEEVE
549-56	BACKUP PACKING
72-379	OXIDATION SHIELD
72-393	OXIDATION SHIELD
M83485/1-213	PACKING - PREFORMED
111-12	CUP - BEARING
115-462	INSULATOR
2-1653	BRAKE ASSEMBLY
245-634	LOCK RING
3-1605	MAIN WHEEL ASSEMBLY
39-174	SEAL ASSY.

P/N	DESCRIPTION
39-175	SEAL ASSY.
4-414	TORQUE PLATE ASSY.
45-276	ADJUSTER TUBE
53-362	STATOR CLIP
53-392	ROTOR CLIP
549-64	BACKUP PACKING
549-65	BACKUP PACKING
489-23	KIT, WHEEL BEARING
274-206	INLET FITTING
111-1	BEARING CONE
50-754	INSTRUCTION PLATE
130-17	BALL
43-1459	BOLT
489-102	TOOL KIT, BRAKE ASS'Y
3-1759	WHEEL - LANDING GEAR, NOSE
56-1121	CLIP RETAINER
MS21209F7-15	INSERT SCREW THREAD
26-373	SEAL BUSHING
111-9	CONE - BEARING
437-80	INSULATOR ASSY.
MS14155-7	WASHER - DOUBLE CSK.
MS9464-10	PIN - STRAIGHT, HEADED
49-313	PLUG - OVERINFLATION
134-605	STATOR DISK ASSY.
300-950	WHEEL HALF ASSY. - INNER
245-642	SCRAPER GUIDE RING
68-1568	PREFORMED PACKING
MS21043-4	NUT, HEX
72-380	OXIDATION SHIELD
MS16535-264	RIVET SEMI-TUBULAR
245-638	RETAINING RING
245-635	RETAINING RING
300-949	WHEEL HALF ASSY. - OUTER
349-9	WHEEL REFURBISHMENT KIT
49-386	FUSE PLUG ASSY.
M83485/1-011	PACKING - PREFORMED
MS9386-010	PACKING - PREFORMED
113-200	SPRING GUIDE
115-461	PISTON INSULATOR
349-8	BRAKE REFURBISHMENT KIT
MS28778-4	O-RING
184-950	TORQUE PLATE

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THE POWER OF PARTNERSHIP

F-16 TURBINE SHAFT

Collins Aerospace

TURBINE SHAFT P/N 19E235-2A

Integrated Procurement Technologies stocks the F-16 Turbine Shaft and works with the end user to create a customized, needs-based delivery system. The goals are to:

- Help international F-16 operators prevent AOG situations while improving budget management.
- Deliver products on time and with optimum value.
- Provide a complete customer service package responding to spare requirements in an efficient and expedited manner.



DESCRIPTION:
F-16 TURBINE SHAFT

NSN:
2835-01-115-6111



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Airborne Systems

DECELERATION PARACHUTES

VARIABLE POROSITY CONTINUOUS RIBBON (V.P.C.R.)

Airborne Systems is the world's premier provider of aircraft spin and stall recovery parachute systems. Airborne Systems experience in this field extends for nearly 50 years, starting with the early DC-9 aircraft and continuing through to systems for most of the current major aircraft manufacturers.

Airborne Systems provides complete systems including the parachute system, typically mortar-deployed, the attach / release mechanism (ARM) systems, the cockpit control avionics and support structures. The Airborne Systems team provides ground support equipment including on-site support to the initial installation and rapid response to Customer support inquiries.

PART NUMBER	DESCRIPTION	NSN
738359-1	DECELERATION PARACHUTE	1670-01-457-3562
16L520-805	DECELERATION PARACHUTE	1670-01-406-3309
749047-1	DEPLOYMENT BAG	1670-01-380-1368
711333-1	PILOT CHUTE	1670-01-380-1388
716954	PACKING PIN	1670-01-127-4406

CONFIGURATIONS

- Long Service Life
- Superior Ribbon Construction
- Low Probability of Damage
- Low Maintenance Costs (easy to repair)
- High Drag Efficiency
- Low Opening Shock
- High Landing Speed Capability
- Consistently Stable in Flight
- No Rotating of Deployed Canopy (no need for swivel unit)

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THE POWER OF PARTNERSHIP



F-16 CAPABILITIES

Extant® AEROSPACE

COMBINED ALTITUDE RADAR ALTIMETER (CARA)

AN/APN-232

P/N 8010000788-1

NSN 5841-01-349-9175

- Standard radar altimeter on many USAF platforms
- Fully military-qualified system for severe operational environments
- Low Probability of Detection and Intercept
- High reliability
- Existing organization and intermediate level test and maintenance capabilities
- Fully established and committed depot logistics support
- Fully integrated with critical avionics systems
- Automatic Terrain Avoidance/Following (TA/TF) Systems
- Ground Collision/Proximity Avoidance/Warning Systems
- Terminal Collision Avoidance System (TCAS)

RECEIVER TRANSMITTER (RT)



HEIGHT INDICATOR (HI)



SIGNAL DATA CONVERTER (SDC)

WEIGHT	Receiver Transmitter (RT): 9.2 pounds
	Signal Data Converter (SDC): 1.9 pounds
	Indicator: 2.1 pounds
	Antenna: 0.3 pound each
DIMENSIONS	RT: 3.50 x 6.30 x 8.75 inches
	SDC: 9.48 x 6.30 x 0.82 inches
	Indicator: 3.25 x 3.25 x 4.10 inches
	Antenna: 4.0 x 4.0 x 0.21 inches

SIGNAL DATA CONVERTER (SDC)

CV-3807

P/N 8010000806-4

- This part number was previously listed as 8010000806-3, NSN 5895-01-567-7326. The old version can be upgraded to the current configuration.
- Eliminates potential for data freeze if a power drop-out should occur.
- Improved Safety and Reduced O&M Cost
- Replaces the legacy CARA F16 SDC fielded in 1980 through 2007.
- Increased reliability
- Preferred Item replacement

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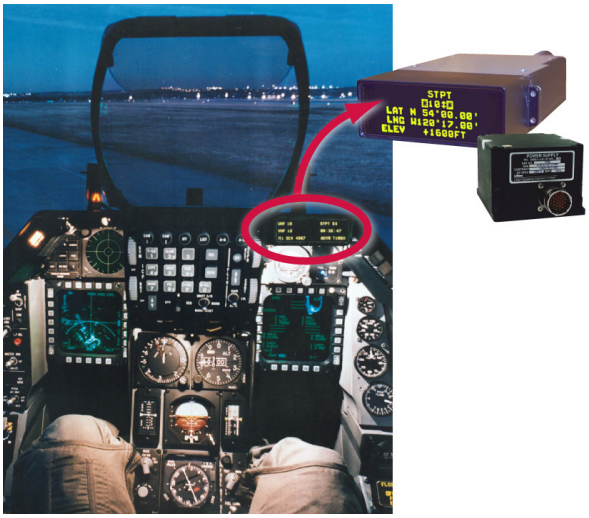
DATA ENTRY DISPLAY

The F-16 Data Entry Display (DED), powered by the associated Power Supply Unit (PSU) displays alphanumeric data received over a MIL-STD-1553 bus.



OEM	CAGE CODE	PART NUMBER	DESCRIPTION	NSN
EXTANT	22830	10-11476-01	DATA DISPLAY GROUP (NVIS)	5895-01-396-3089
	22830	10-01125-08	DATA DISPLAY GROUP (NON-NVIS)	5895-01-143-5443



- Technology: Matrix LED
- Display size: 1” x 3”
- Resolution: 192 columns by 64 rows of text and graphics display capability
- Color: Monochrome
- NVIS: NVIS-B compatible

Over 7,100 DED units have been manufactured for the F-16 since 1981.

Installed on all production blocks except the block 60 for the UAE.

Production & Repair Support

PART NUMBER	PRODUCTION	REPAIR
10-52151-03	Yes	Yes
10-53618-01	Yes	Yes
10-52151-02	Yes	Yes
10-01125-08	Yes	Yes
10-52108-01	Yes	Yes
10-11476-01	Yes	Yes
10-01126-07	Yes	On Request
10-50000-05	No	Yes
10-50001-04	No	Yes
10-50000-04	No	Yes
10-01109-07	Yes	Yes
10-01128-06	Yes	Yes

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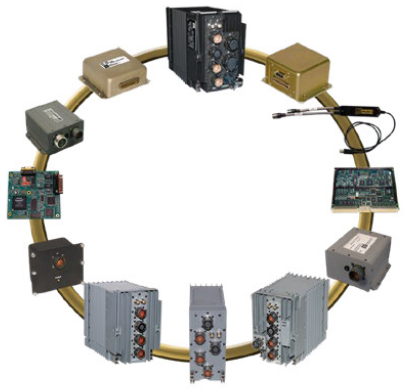
IMPROVED DATA MODEM (IDM)

The Improved Data Modem (IDM) products provide a data link capable of passing data between air and ground systems as well as vital air-to-air data between IDM equipped aircraft. The IDM utilizes multiple, independent radio types (HF, UHF, VHF and SATCOM) as well as Blue Force Tracker and IP network connectivity to send mission critical, secure data.

The following protocols are supported depending on the specific product: AFAPD, TACFIRE, MTS, IDL, MIL-STD-188-220 and PTAC









Production & Repair Support

PART NUMBER	PRODUCTION	REPAIR
3429-6-000-1	On Request	Yes
FTISC-101	On Request	Yes
3429-6-000-3	On Request	Yes
490-9686-001	On Request	Yes
403145-10	On Request	Yes
403145-09	On Request	Yes
3429-5-000	On Request	Yes
403072	On Request	Yes
DM-SM-0001	On Request	Yes
3442-1-218	On Request	Yes
403145-05	On Request	Yes
3442-1-100-06	On Request	Yes
3442-1-000-17	On Request	Yes
3442-1-062	On Request	Yes
3429-5-000-2	On Request	Yes
DM-CT-0304	On Request	Yes
3442-1-000	On Request	Yes
3442-1-000-05	On Request	Yes
CA-1239-6	On Request	Yes
3442-1-215	On Request	Yes
CA-2070-14	On Request	Yes
3442-1-000-18	On Request	Yes
490-9355-002	On Request	Yes
DM001-302	On Request	Yes
3424-1-100	On Request	Yes
A3317541	On Request	Yes
3429-6-000-2	On Request	Yes
490-9686-003	On Request	Yes
403145-08	On Request	Yes
10863-0-001	On Request	Yes

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ELECTROMECHANICAL INDICATORS

Extant Aerospace has a large variety of electromechanical indicators which provide attitude indication across a broad spectrum of applications:

- The Horizontal Situation Indicator (HSI) provides pilot with heading, course, single or dual pointers, remote or manual heading and course pointers, DME readouts, and glideslope.
- The Bearing Distance Heading Indicator (BDHI) displays distances up to 1999 nautical miles (NM) with a bearing pointer which provides information to select station.
- The Attitude Director Indicator (ADI) 2 or 3 axis display of pitch, roll or pitch, roll, and azimuth. Additional features such as rate of turn, glideslope and localizer can also be added.





Production & Repair Support

PART NUMBER	PRODUCTION	REPAIR
10673	Yes	On Request
10481	Yes	On Request
10578-002	Yes	On Request
136493	Yes	On Request
114098	Yes	On Request
113540	Yes	On Request
100524	On Request	Yes
102550	On Request	Yes
111302-5	On Request	Yes
111303-4	On Request	Yes
112750	On Request	Yes
125200	On Request	Yes
126460	On Request	Yes
128710	On Request	Yes
129060-21	On Request	Yes
132130	On Request	Yes
132750-5	On Request	Yes
135070-5	On Request	Yes
136670-3	On Request	Yes
137980-1	On Request	Yes
147140-9	On Request	Yes
165840-9	On Request	Yes

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F-16 CAPABILITIES

PacSci EMC

PSEMC's optimum manufacturing and engineering capabilities and IPT's superior customer support and service ensures pilot and aircraft safety at the best value. The components PacSci EMC offer are qualified to the original aircraft manufacturer's and/or USAF specifications to meet all environmental and operational requirements.



CARB

(CANOPY ACTUATOR RELEASE BOLT)
P/N: 2-502300
NSN: 1377-01-461-9131

A specialized explosive bolt that, when fired, releases the canopy from the canopy positioning actuator allowing it to be jettisoned from the aircraft.

PART NUMBER	DESCRIPTION	NSN
2-502300	CARB	1377-01-461-9131
828282-003	ECRL	1377-01-522-6385
828282-004	ECRL	1377-01-522-6391
828282-006	ECRL	1377-01-522-6387
828282-007	ECRL	1377-01-522-6389
828282-008	ECRL	1377-01-522-6388
828282-009	ECRL	1377-01-522-6393

ADVANCED CONCEPT EJECTION SEAT II (ACES II)

PSEMC also manufacturers components on the Advanced Concept Ejection Seat II (ACES II) allowing IPT to offer F-16 operators reliable and dependable escape system components that work the first time, every time.

DROGUE, SEVERENCE CUTTER

P/N: 811318-6
NSN: 1377-01-083-8459
Severs small seat stabilizing chute before aircrew/ seat separation event.



INITIATOR, CARTRIDGE ACTUATED

(INERTIA REEL GAS GENERATOR)
P/N: 0113226-23
NSN: 1377-01-166-4261
Gas generator operates inertia reel to re-position aircrew in seat for best ejection posture.



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AEROFLUIDPRODUCTS

Aero Fluid Products family of valves have the right stuff to meet the precise demands of the aerospace industry. Having been fielded on every major commercial and military airframe design over the past 30 years, these products are recognized as having the quality, engineering, design and proven performance necessary for continued success. These valves are specifically designed to handle all types of fluids including hydraulic and lubricating oils, fuel, air, coolant, potable water, and waste. They are constructed of various materials to meet the environmental conditions they are exposed to while optimizing weight and space constraints. Their methods of actuation are selected to meet the requirements of the application and include manual, motor, solenoid, servo, and pilot actuation.

P/N	DESCRIPTION	NSN
02-1300	CYLINDER ASSEMBLY, ACTUATING, LINEAR	1650-01-052-0823
02-1302-7		
02-1303	GLAND	1680-01-052-4834
02-1400-3	CYLINDER ASSEMBLY, ACTUATING, LINEAR	1650-01-301-2297
02-1404-1	PISTON, LINEAR ACTUATING CYLINDER	1650-01-306-1269
02-1407	RING, RETAINING	5325-01-054-5025
02-1900	SOLENOID, ELECTRICAL	5945-01-049-1380
103419-1	VALVE, SOLENOID	4810-01-255-4214
12M4659-7	BUTTON, OVERIDE, LAND	1680-00-809-2944
13C7	PIN, STRAIGHT, HEADLESS	5315-01-106-5783
1646114-1	STATOR, TURBINE FUEL	2915-01-058-1452
1646130-7	CARTRIDGE ASSEMBLY	2915-01-092-4448
1646142-1	SHAFT, TURBINE, NONAIRCRAFT GAS TURBINE ENGINE	2835-01-348-7078
1646143-1	SEAL	5330-01-151-8707
1646T100-7	FUEL PUMP, TURBINE DRIVEN	2915-01-463-5076
1647142-1	CLUTCH, POSITIVE, NONVEHICULAR	3010-01-055-6548
1647T100-13	ACTUATOR, ELECTRO-MECHANICAL, ROTARY	1680-01-148-4167
1666T100-5	VALVE, FUEL FLOW DIVIDER	2915-01-075-9723
1685123-1	RETURN, CAP, BALL	1680-01-055-9401
1685124-1	DISK, RATCHET	1680-01-055-9402
1685127-3	RAM ASSEMBLY, ACTUAT	1680-01-169-2194
1685127-5	RAM ASSEMBLY	1680-01-102-2373
1685190-1	CONNECTOR, ROD END	5340-01-055-1990
1685194-1	BEARING, WASHER, THRUST	3120-01-055-2867

P/N	DESCRIPTION	NSN
1685205-1	ROLLER, BEARING	3110-01-076-5022
1685243-1	DISK, FRICTION	1680-01-055-3355
1685246-1	RETAINER, PACKING	5330-01-094-9919
1685T100-5	ACTUATOR, ELECTRO-MECHANICAL	1680-01-085-4423
16L401-7	SOLENOID ASSEMBLY	5945-01-127-9244
16L401-811	LANDING GEAR CONTROL ASSEMBLY-FORWARD STATION, BLACK HANDLE	
16L401-817	LANDING GEAR CONTROL ASSEMBLY-FORWARD STATION, BLACK HANDLE	1680-32-077-8886
16L403-15	HANDLE, LEVER CONTROL	1680-01-589-8407
16L422-809	LANDING GEAR CONTROL ASSEMBLY- AFT STATION, BLACK HANDLE	
16L422-813	LANDING GEAR CONTROL BOX AFT STATION-NIGHT VISION IMAGING SYSTEM (NVIS) LIGHT	1680-32-077-8879
16S430-5	BREECH ASSEMBLY, EJECTOR-FUEL PYLON	1560-01-118-1611
16VH205-1	ACTUATOR, AERIAL REFUELING	1650-01-052-0823
16VH400-3	ACTUATOR, ARRESTING HOOK	1650-01-301-2297
16VK024-1	CANOPY JETTISON HANDLE	5340-01-052-0825
501806	SOLENOID, ELECTRICAL	5945-00-929-7535
501809	DISK, VALVE	4810-00-718-0848
502833	COVER, VALVE, SHUTOFF	4810-00-193-2673
503600-1	SHUTOFF VALVE	
503600-2	SHUTOFF VALVE	4810-01-050-5843
503614-1	RETAINER	5340-01-117-3132
503614-3	RETAINER	5342-01-135-0890
503614-5	RETAINER	5342-01-116-9032

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AEROFLUIDPRODUCTS

P/N	DESCRIPTION	NSN
504012	GUIDE, VALVE	
504800-1	VALVE	4820-01-060-7524
504802-1	BODY, VALVE	4810-01-584-4420
504804-1	BUTTERFLY, HYDRAULIC	1650-01-065-3498
504806-1	REDUCER, TUBE	4730-01-068-3725
504809-1	SETSCREW	5305-01-065-6234
504810-1	SPRING, HELICAL, COMPRESSION	5360-01-065-1701
504811-1	SHAFT, STRAIGHT	3040-01-066-3262
504813-1	PLUG, MACHINE THREAD	5365-01-066-2415
504814-1	GASKET	5330-01-065-0951
504815-1		
504817-1	PISTON-SHAFT, VALVE SOLENOID	4820-01-066-1572
504819-1	PIN, STRAIGHT, HEADED	5315-01-077-9058
5107-00-1	VALVE, REGULATING, FLUID PRESSURE	4810-01-459-0570
5107-00-3	VALVE, REGULATING, FLUID PRESSURE	
5108-00-10	VALVE, GATE	4810-01-479-0375
5108-00-3	VALVE, REGULATING, FLUID PRESSURE	
5108-39-55		
5108-50-1		
513000-2	VALVE ASSEMBLY	4810-01-142-0717
513018-1	WASHER, FLAT	5310-01-360-1154
513900-1	VALVE	4810-01-124-9100
513914-1	SEAT, VALVE, ADJUSTABLE	1660-01-125-2175
513915-1	SEAT ASSEMBLY, VALVE	1660-01-124-9101
513921-1	BEARING, ECCENTRIC	3130-01-128-1538
513923-1	BUSHING, SLEEVE	3120-01-538-0288
513924-1	SPRING, HELICAL, COMPRESSION	5360-01-127-1358
513925-1		
513926-1	SCREW, STOP	
513927-1		
513928-1		
5207-00-1	Pressure Regulator and Shutoff Valve	4810-01-154-3200
520907-1		
520907-2		
521500-1	VALVE	4810-01-250-1537
57-4300-01	SUCTION VENT VALVE	
767600-1	VALVE	
767602-1	BODY, VALVE	4820-01-524-2895
767603-1		
767604-1	COVER PLATE, VALVE	4810-01-622-5366

P/N	DESCRIPTION	NSN
767605-1	ELBOW, FLANGE TO HOSE	4730-01-228-7718
767606-1	ELBOW, FLANGE TO TUBE	4730-01-527-9548
767607-1	ADAPTER, STRAIGHT, HOSE TO BOSS	4730-01-229-1752
767608-2	PISTON, VALVE	4810-01-247-4288
767609-1	DISK, VALVE	4810-01-247-4563
767610-1	SPRING, HELICAL, COMPRESSION	5360-01-528-2730
767617-2	PISTON, VALVE	4810-01-258-0321
767620-1	BACK-UP RING, PREFORMED PACKING	5330-01-528-0277
767626-1	RETAINER, DISK, VALVE	4810-01-247-4286
767629-1	MARKER, IDENTIFICATION	690-01-526-0420
767630-1	SPRING, HELICAL, COMPRESSION	5360-01-233-9921
767631-1	DIAPHRAGM, ACTUATOR VALVE, SPECIAL SH	4810-01-247-4565
767632-1	DIAPHRAGM, ACTUATOR VALVE, SPECIAL SH	4810-01-247-4566
767633-1	SEAT, VALVE	4810-01-248-0896
767634-1	DISK, VALVE	4810-01-247-4562
767635-1	SPRING, HELICAL, COMPRESSION	5360-01-528-3281
767636-1	SHIM	5365-01-525-8715
767636-2	SPACER, RING	5365-01-525-7131
767636-3	SPACER, RING	5365-01-525-6761
767637-1	NIPPLE, BOSS	4730-01-228-7717
767638-1	GASKET	5330-01-245-3231
767644-1	RETAINER, PACKING	5330-01-246-8457
767646-1	BEARING, SLEEVE	BEARING, SLEEVE
767647-1		
767648-1	GASKET	5330-01-245-3839
767650-1	WASHER, FLAT	5310-01-525-7171
828200-1	RESERVOIR, PNEUMATIC HIGH PRES	1650-00-781-9578
835500-101	RESERVOIR, PNEUMATIC HIGH PRES	
892R041	COLLAR, VALVE	
8F106-1	ARMATURE, MOTOR	
9F83-7	WINDING, MOTOR FIELD	6105-01-079-2095
B1741-02	CHECK VALVE	4820-01-180-9534
B1744-01	CHECK VALVE	4820-01-174-2971
C1261-02	RELIEF VALVE	
FSH42-7	MOTOR, DIRECT CURRENT	6105-01-079-2151
N1465-03	2 WAY VALVE	4320-01-182-9819
N1631-07	SHUT OFF VALVE	4820-01-083-3032
S1628-01	SAMPLING VALVE	1650-01-044-9358
Z2329-05	FLAPPER CHECK VALVE	

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F-16 CAPABILITIES

Chemring
Energetic Devices

The Joint Combined Aircrew Systems Tester (JCAST) integrates several required items of test equipment into a single, portable, rugged, self contained test unit. The JCAST Tester meets or exceeds the USAF testing requirements for today's helmets, masks, Anti-G Garments, associated oxygen connections, and communications systems. This test equipment eliminates the need for high pressure air/oxygen cylinders, and hazardous materials; it will also significantly reduce supporting man-hours, deployment costs, and mobility footprint.

JCAST

P/N: 6177100-20
NSN: 4920-01-619-9654



FEATURES

- Eliminates the need for multiple test sets
- Easily Upgradeable and Expandable
- Supports Fighters, Fixed, and Rotary Wing ALSE, Pre-flight and Recurring Inspection/Maintenance Requirements
- COMBAT EDGE Equipment Fitting and Testing
- Replaces MQ-1, TTU-529/E, G-Suit Pumps/Devices, MH-2, DMH-1
- Designed for In-Shop, Field and Deployment
- Provides Proper Pressure and Flows to Enable Complete Functional Testing of ALSE
- Provides Power to Test Type EEU-2/P Flashblindness Goggles
- Helmet/Mask Inspection and Troubleshooting
- Mask Microphone, Helmet Earphones and Headset Testing
- Active Noise Reduction (ANR) Headsets
- MMR Flow and Relief Valve Testing
- Easily Aligned to Calibration Standards

SPECIFICATIONS:

SIZE: 18.9 IN X 28.8 IN X 16 IN
WEIGHT: 125 LBS
POWER: 100-240 OV AC

ADVANCED CONCEPT EJECTION SEAT II

PLATFORM	P/N	DESCRIPTION	NSN
F-16	6030100	VALVE, MODE SELECTOR	1377-01-055-2144
F-16	6073100	INITIATOR, GAS ACT. DTA	1377-01-271-7161
F-16	6074100	INITIATOR, MECH. ACT. DTA	1377-01-257-9467
F-16	6101100-04	1.0 DUAL DELAY INITIATOR	1377-01-346-2219
F-16	6101100-05	.330 DUAL DELAY INITIATOR	1377-01-346-2220
F-16	6101100-06	.400 DUAL DELAY INITIATOR	1377-01-346-2221
ACES II	6012100-04	DROGUE CUTTER	1377-01-234-0706
ACES II	6066100-02	GYRO SPIN GAS GENERATOR	1377-01-319-3847
ACES II	6067200	MORTAR CARTRIDGE	1377-01-536-4060
ACES II	6254100	DRS PM	1377-01-616-5059
ACES II	9392046-2	HARNESS RELEASE CARTRIDGE	1377-01-368-5411
ACES II	9392046-1	CARTRIDGE, IMPULSE	1377-01-322-0071

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TRIUMPH™

FUEL/OIL COOLER AND HEAT EXCHANGER

PART NUMBER	DESCRIPTION	NSN
UA535950-3	F100PW100 FUEL/OIL COOLER	2935-00-361-6513
UA535950-4	F100-200 FUEL/OIL COOLER	2935-01-158-4269
UA539800-1	F100-220C FUEL/OIL COOLER	2935-01-214-7360
UA538100-5	F-16C/D FUEL/OIL COOLER	2935-01-237-7995

PROGRAM BENEFITS

- IPT is responsible for quoting repair, as well as managing all required logistics including export license.
- Triumph Thermal performs all repairs using the most recent engineering updates and proprietary technology.
- Repair is covered by a standard 12-month warranty
- MTBF is increased providing operator with increased aircraft ability.



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THE POWER OF PARTNERSHIP



F-16 CAPABILITIES

BEI PRECISION

For more than 60 years, BEI has advanced the technology of optical encoders and motion control systems, with a focus on the singular characteristic that matters most: performance. The BEI portfolio includes the industry's absolute best-in-class encoders, scanners, oscillators and accelerometers.

GENERAL CHARACTERISTICS

Operating Principle	Closed-loop servo force balance
Size and Mounting	Per BEI PSSC drawing 38431
Weight	3.5 oz max
Input Power	± 15 VDC at 20 mA, ±5% regulation
Electrical Connection	7-pin connector
Sealing	Hermetically sealed

PERFORMANCE CHARACTERISTICS

Range	± 12 g static; ± 18 g over-range
Scale Factor	0.417 V/g (calibrated with external load of 20 kilohms ±2%
Scale Factor vs. Temperature	0.01% of value/ ° F
Hysteresis	Less than 0.02%, full range
Linearity	Less than 0.02%, full range
Noise	< 7.5 mV rms, 0 to 2 kHz bandwidth
Axis Alignment	± 1.0 ° each axis, to mounting flange
Self-Test Provisions	Access for external injection to sensor torque coil

ENVIRONMENTAL CAPABILITY

Operating Temperature	-65 ° F to +200 ° F
Storage Temperature	-65 ° F to +200 ° F

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F-16 MAIN BATTERY

EnerSys®
Power/Full Solutions

APPLICATION	PART NUMBER	NSN
PRE-BLOCK 40	9750S0746	6140-01-458-4863
POST BLOCK 40/50	9750S0788	6140-01-492-0227



PRE-BLOCK 40



POST BLOCK 40/50

ADVANTAGES

- Dispatched from the manufacturer's factory fully charged.
- Inspection free storage life of 2 years when stored at or under 25ºC (77ºF).
- Completely sealed and virtually maintenance-free.
- Fully supports aerobatic operations.
- Long life, pure lead grids.
- Recovers from deep discharge.
- Vents and thermal sensors not required.
- Easy commissioning, normally consisting of only a voltage check.
- Classified as non-hazardous and unrestricted for transportation when correctly packed.

All EnerSys Hawker aviation battery products are classified as non-hazardous and unrestricted for land, sea or air transportation when correctly packed. This battery needs very little maintenance, has no memory effect, and doesn't suffer from fading. Depending on application, operation and use, the battery can last up to 5 years allowing a fit-and-forget installation. Maintenance, when required, is simple and quick; only a visual inspection and a capacity test are needed. Thus a dedicated lead-acid battery shop is not required, as the batteries can be serviced in a NiCd shop.

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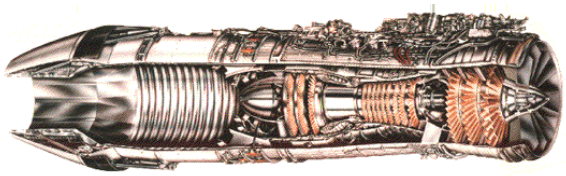
THE POWER OF PARTNERSHIP

F-16
BEARING CONTENT

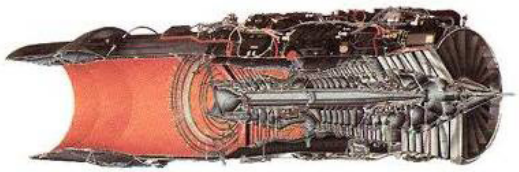
TIMKEN

GENERAL ELECTRIC F110



PART NUMBER	NSN	SUBSYSTEM
5RUSH 024-9	3110-01-147-4486	GE F110-GE-100/129
5HKH 106-175	3110-01-190-2754	GE F110-GE-100/129
5HTH 108-115	3110-01-190-2755	GE F110-GE-100/129
5RFH 106-176	3110-01-190-2758	GE F110-GE-100/129
5HTH 207-142	3110-01-190-3450	GE F110-GE-100/129
5RFH 108-116	3110-01-190-3451	GE F110-GE-100/129
5RNH 107-134	3110-01-190-3452	GE F110-GE-100/129
5RFH 107-133	3110-01-199-0833	GE F110-GE-100/129
5HKH 206-191	3110-01-200-8537	GE F110-GE-100/129
HKHZZ 104-190	3110-01-216-3946	GE F110-GE-100/129
5HKH 106-175	3110-01-309-2979	GE F110-GE-100/129
5RNH 1824-D5	3110-01-310-0711	GE F110-GE-100/129
5HKH 206-A191	3110-01-322-9740	GE F110-GE-100/129
5RFH 106-A176	3110-01-322-9742	GE F110-GE-100/129
35HTH 126-22	3110-01-329-3291	GE F110-GE-100/129
RNHB 206-124	3110-01-051-1641	HAMILTON-SUNDSTRAND T-62T
RFB 001-18	3110-01-051-1642	HAMILTON-SUNDSTRAND T-62T
RFB 002-36	3110-01-051-1643	HAMILTON-SUNDSTRAND T-62T
RLHB 008-58	3110-01-054-4684	HAMILTON-SUNDSTRAND T-62T
RNHB 004-60	3110-01-054-4685	HAMILTON-SUNDSTRAND T-62T
RFB 007-60	3110-01-054-4686	HAMILTON-SUNDSTRAND T-62T
RFB 004-61	3110-01-054-4687	HAMILTON-SUNDSTRAND T-62T
RFB 108-71	3110-01-054-4688	HAMILTON-SUNDSTRAND T-62T

PRATT & WHITNEY F100



PART NUMBER	NSN	SUBSYSTEM
RLHB 007-61	3110-01-054-5499	HAMILTON-SUNDSTRAND T-62T
5HKH 009-42	3110-01-054-6334	HAMILTON-SUNDSTRAND T-62T
HAB 008-56	3110-01-054-6335	HAMILTON-SUNDSTRAND T-62T
RLHB 106-PT101	3110-01-054-6336	HAMILTON-SUNDSTRAND T-62T
RNHB 006-65	3110-01-056-1576	HAMILTON-SUNDSTRAND T-62T
RFB 107-88	3110-01-056-8508	HAMILTON-SUNDSTRAND T-62T
5HKH 008-62	3110-01-057-7238	HAMILTON-SUNDSTRAND T-62T
RNHB 104-97	3110-01-059-7106	HAMILTON-SUNDSTRAND T-62T
HKH 008-98	3110-01-181-1132	HAMILTON-SUNDSTRAND T-62T
HKH 106-183	3110-01-182-6677	HAMILTON-SUNDSTRAND T-62T
5HKH 101-71	3110-00-346-7148	PRATT & WHITNEY F100-PW200
5RNH 111-44	3110-00-416-9420	PRATT & WHITNEY F100-PW200
5RNH 120-A12	3110-00-416-9422	PRATT & WHITNEY F100-PW200
RNH 107-66	3110-00-416-9423	PRATT & WHITNEY F100-PW200
5RFH 101-26	3110-01-003-6651	PRATT & WHITNEY F100-PW200
RTH 105-124	3110-01-071-1483	PRATT & WHITNEY F100-PW200
5RNH 033-7	3110-01-137-2472	PRATT & WHITNEY F100-PW200
5RNH 109-67	3110-01-189-2803	PRATT & WHITNEY F100-PW200
5HTH 113-36	3110-00-506-3239	PRATT & WHITNEY F100-PW220
5HKH 109-68	3110-01-183-4087	PRATT & WHITNEY F100-PW229
5RNH 116-27	3110-01-212-2709	PRATT & WHITNEY F100-PW229
5RNH 116-29	3110-01-319-3657	PRATT & WHITNEY F100-PW229
5HADH 208-120	3110-01-484-4125	PRATT & WHITNEY F100-PW229

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THE POWER OF PARTNERSHIP

F-16
ALE-47 COUNTERMEASURES DISPENSER SYSTEM

BAE SYSTEMS

The ALE-47 Airborne Countermeasures Dispenser System identifies and defeats infrared and radio frequency missiles.

The ALE-47 system uses information from integrated electronic warfare sensors such as radar warning receivers and missile warning receivers to determine the correct response to defeat infrared and radio frequency guided missiles. The cockpit crew has complete control of their threat situation by choosing to operate in any of the four modes: automatic, semiautomatic, manual, and bypass.

BENEFITS

- Combat proven
- More than 3,000 systems installed
- Operating in 30 countries
- Integrates with EW sensors
- Interchangeable with obsolete ALE-40/ ALE-39 and M-130 systems
- Uses U.S. and NATO standard and new RF and infrared decoys
- Glass cockpit compatible



COCKPIT DISPLAY UNIT



PROGRAMMER



DISPENSER ASSEMBLY



MAGAZINE ASSEMBLY

PART NUMBER	DESCRIPTION	NSN
179720-0001	SWITCH, SAFETY	5930-01-333-2196
179750-0001	DISPENSER	5865-01-334-8349
179740-0002	COCKPIT DISPLAY UNIT	5865-01-380-8046
179730-0005	PROGRAMMER	5865-01-437-3371
179730-0006	PROGRAMMER	5865-01-437-3373
179250-0003	SEQUENCER	5865-01-451-2868
179250-0012	SEQUENCER	5865-01-527-2187



SAFETY SWITCH

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BAE SYSTEMS

ALE-47 SUPPORT EQUIPMENT

Countermeasures Dispensing Test Sets (CDTS)

- P/N 188100-7001
- Safety requirement for operational use
  - Stray Voltage Testing
- End-to-End System Testing
  - Suitable for Engineering Lab, System Integration Lab, System Troubleshooting, and Flight Line use



CDTS

Memory Load Verifier (MLV)

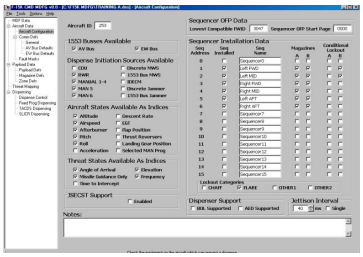
- Loads/Verifies ALE-47 Programmer Software
  - Mission Data File (MDF)
  - Operational Flight Program (OFP)
- MIL-STD-1553 Interface
- Hosted on a Ruggedized COTS computer
  - Suitable for Flightline Use
- Can be combined with TMG on single computer



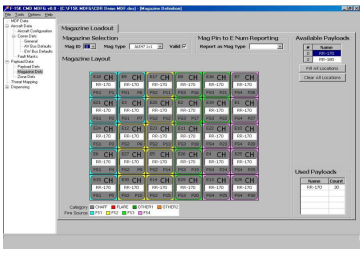
MLV

Threat Matrix Generator (TMG)

- COTS computer configured with BAE Systems proprietary software
- Create and edit Mission Data Files (MDFs) for the ALE-47 Programmer
- Each TMG version supports MDF development for all aircraft with the same ALE-47 Operational Flight Program (OFP)
- Data screens are grouped in a logical manner, promotes ease of use
- Validates values entered are within acceptable ranges



Sample **TMG** Screens





SLTS

Intermediate-Level Tester

I-level tester is the Shop Level Test Set (SLTS)

- Acceptance Testing and Intermediate Level Testing of ALE-47 Electronic LRUs
  - Same Acceptance Test Procedure (ATP) performed at the OEM
- Identifies faults at the Circuit Card Assembly (CCA) level
- New technology refreshed in 2015
- Year over year contracts for international customers ensures upgrades and availability
- Single SLTS can test all ALE-47 LRUs across multiple platform types

Logistics Support

- Direct Commercial Sales (DCS) arrangement recommended
  - Foreign Military Sales (FMS) not required
- Spares can be positioned at end user facilities
- With SLTS, I-level repairs can be performed in-country
- Spares positioned at BAE Systems OEM factory
- Reduced lead time
- Depot repairs at BAE Systems OEM factory

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BAE SYSTEMS

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[1]	0103200-3	0110200-1	0111200-3	0115200-1[2]	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_2 cylinders

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BAE SYSTEMS

The AN/ARC-164 standard avionics radio provides the DoD and NATO standard anti-jam UHF voice communications in support of modern military operations.

- 10 watts AM; 25 KHz channel spacing
- Have Quick II ECCM
- Line-of-sight voice
- 2,000 hours demonstrated mean-time-between-failures (MTBF)
- COMSEC/secure speech compatible
- ANVIS Green A front panel lighting and electronic fill port
- Form, fit, function replacement for obsolete UHF radios
- Upgradeable in the field



CONFIGURATION	WIDTH (in)	HEIGHT (in)	DEPTH (in)	WEIGHT (lb)
RT-1504	4.98	4.730	8.32	8.84
RT-1505A	5.75	4.875	8.85	9.25
RT-1518C	5.75	4.875	8.85	9.25
RT-1614*	4.98	4.730	9.11	9.75
C-11718	5.75	4.875	5.44	4.32
MXF-243	5.74	2.980	5.45	3.00

MOUNTING CONFIGURATION	RT-1505A Panel	RT-1518C Panel	RT-1504 Remote	RT-1614 Remote
FREQUENCY RANGE	225.000 to 399.975 MHz			
NO. OF CHANNELS	UHF 7000 (including 20 preset and 1 Guard channel available from panel mount RT and the radio set control).			
MODULATION TYPE	AM			
PRIMARY POWER				
R/T	Receiver: 35 watts to 16 watts typical Transmitter: 110 watts to 85 watts typical at 24 to 33 Vdc			
CONTROL BOXES	20 watts at 24 to 33 Vdc			
CHANNEL TIME CHANGE	0.25 second maximum in normal mode			
AGC	+5, -4 dB from 4 µV to 0.5V (all receivers) (1 mV ref)			
SQUELCH				
ADJUSTMENT RANGE	0 to 4 µV minimum			
HYSTERESIS	2 to 8 dB			
ATTACK TIME	50 milliseconds maximum			
SELECTIVITY	Narrowband	Wideband		
6 dB	±12 kHz minimum	±35 kHz minimum		
40 dB	±25 kHz maximum			
60 dB		±75 kHz		
AUDIO OUTPUT POWER LEVEL	Normal 200mW Min (Adj)	Wideband		
VOLTAGE LEVEL		2.0 Vrms min		
LOAD IMPEDANCE	150 ohms	500 ohms		
RESPONSE	+1, -3 dB (300 to 3500 Hz)	+3, -5 dB (70 to 25 kHz)		
DISTORTION AT 50% MOD	10% maximum			
VOLTAGE LEVEL	35 dB	No squelch		
VOLTAGE LEVEL	37 dB	Not controlled		

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THE POWER OF PARTNERSHIP

F-16 CAPABILITIES

Columbus Jack
A TRONAIR COMPANY

Columbus Jack has partnered with Integrated Procurement Technologies to support military customer needs worldwide. This proactive partnership provides a complete customer service package that includes responding to spare and repair requirements.

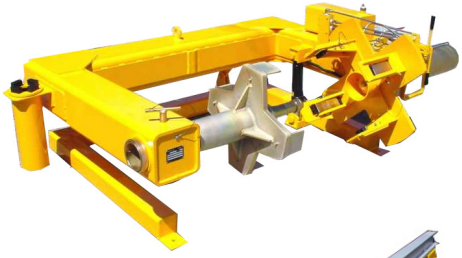
VARIABLE HEIGHT TRIPOD JACK
MODEL 50J25178
10 TON CAPACITY
NSN 1730-00-516-2019



HAND CARRY AXLE JACK
MODEL CJ67D0250-1
15 TON CAPACITY
NSN 1730-00-854-2237



AIRCRAFT TIRE BEAD BREAKER
MODEL 7094-010
25,000 LB CAPACITY
NSN 4910-01-305-7271



ENGINE TRANSPORTATION TRAILER
MODEL 5380-010
8,000 LB CAPACITY
NSN 1740-00-061-3039



PORTABLE FLOOR CRANE
MODEL 9319-010
1,500 LB CAPACITY
NSN 3950-01-371-9144



WHEEL AND BRAKE DOLLY
MODEL 9092-012
1,500 LB CAPACITY
NSN 4910-01-485-7487

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F-16 CAPABILITIES

ACES SYSTEMS

VIPER-2E 4-CHANNEL ANALYZER

The VIPER-2E is a versatile yet compact instrument that combines all of the diverse technologies required for high-end engine vibration analysis, transient balance, fan trim balance, propeller balance and acoustic analysis into one tool. All of these maintenance functions can be easily performed on virtually any airframe and/or engine type using the VIPER-2E.



1. **TRANSIENT VIBRATION ANALYSIS**
   Accurate High-Speed Run-up and Coast-Down Transient Surveys
2. **TRANSIENT BALANCE**
   Save Time and Money by Collecting Data in a Single Sweep
3. **MIL-SPEC DESIGN**
   Ensure Reliability of Measurements in Harsh Environments

FEATURES

- Transient Balance yields test cell quality balancing results
- Direct PDF report generation onto a USB flash drive
- .CSV export of raw data for further analysis
- SmartTach speed and phase processing allows direct measurement of the engine speed signal
- Four-channel simultaneous data acquisition for speed and accuracy
- Supports inputs for (4) Vibration Channels, (4) Mag P/U or Optical Tach Inputs, (1) TraX Optical Tracker, and (1) Strobe
- USB port for direct connection to peripherals
- Housed in ZERO case for maximum environmental protection
- 1-year warranty plan for defects of components and workmanship

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