

F-5 CAPABILITIES

Collins Aerospace	**Collins Aerospace**'s primary landing-gear products include main, nose, and wing landing gear assemblies. IPT also stocks wheels, brakes, and components for your AOG needs.
WOODWARD	**Woodward** is a manufacturer of control systems and control system components for aircraft engines, industrial engines and turbines, power generation and mobile industrial equipment.
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.
BAE SYSTEMS	**BAE Systems** is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.
Whippany Actuation Systems	**Whippany Actuation Systems** serves the aerospace and defense industries by designing, manufacturing, and servicing custom electromechanical actuation solutions for commercial and military applications.
Extant AEROSPACE	**Extant Aerospace** offers advanced avionics upgrades and solutions to enhance the performance, reliability, and capabilities of aircraft systems.
TRIUMPH	**Triumph** specializes in the design, development, certification, manufacture and repair of fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.
Columbus Jack A TRONAIR COMPANY	**ColumbusJACK/Regent** supplies high-quality hydraulic jacks and lifting systems ensuring safe and efficient lifting, positioning, and maintenance of heavy equipment and structures.

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F-509 CAPABILITIES

Collins Aerospace

AIRCRAFT PTO SHAFTS

Integrated Procurement Technologies has partnered with UTC Aerospace Systems to support military customer needs worldwide. This proactive partnership provides a complete customer service package that includes responding to spare and repair requirements as IPT works with the end user to create a customized, needs-based delivery system.

MODEL NUMBER	APPLICATION
19E83-2-CL51	Northrop F-5A, F-5B, T-38 2/SS
19E83-2-CL52	Northrop F-5A, F-5B, T-38 2/SS
19E83-2-CL53	Northrop F-5A, F-5B, T-38 2/SS
19E83-4-CL58	Northrop CF-5 2/SS
19E83-4-CL59	Northrop CF-5 2/SS
19E83-4-CL60	Northrop CF-5 2/SS
19E83-5-CL64	Northrop F-5E, F-5F 2/SS
19E83-5-CL65	Northrop F-5E, F-5F 2/SS
19E83-5-CL100	Northrop F-5E, F-5F 2/SS



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WOODWARD

Woodward's high performance and highly reliable products have made electrically-commanded vehicle and engine control systems possible. Woodward is an industry leader in the design and manufacture of electro-hydraulic pressure and flow control servovalves for the aerospace and defense industry. Our servovalves are in worldwide use on demanding fixed-wing aircraft, helicopters, space vehicles, missiles, ground and marine vehicles, and engine applications. Fly-by-Wire and Brake-by-Wire systems rely heavily on Woodward products.

PART NUMBER	DESCRIPTION	NSN
22232700	ANTI SKID SERVOVALVE	
22253340	PITCH CONTROL SERVOVALVE	1650-00-492-7989
22253350	PITCH CONTROL SERVOVALVE	1650-00-491-0601
51325	DIRECTIONAL CONTROL SOLENOID VALVE	4810-00-078-4729



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THE POWER OF PARTNERSHIP

F-5 CAPABILITIES

AEROFLUIDPRODUCTS

Dukes INC aerospace

Aero Fluid Products and Integrated Procurement Technologies have entered into an agreement to support military customer needs worldwide. In 2018, the Dukes Aerospace line was absorbed by Aero Fluid Products. This proactive partnership provides a complete customer service package that includes responding to spare and repair requirements.

PART NUMBER	DESCRIPTION	NSN	LRU/COMP	REPAIRABLE
8E20-1	ROTOR,MOTOR	6105-01-059-4586	LRU	Y
499-00-5	ACTUATOR, DOOR GROUND COOLING	1680-01-020-0308	LRU	Y
499-00-3	ACTUATOR, DOOR GROUND COOLING	1680-00-138-6310	LRU	Y
499-00-1	ACTUATOR, DOOR GROUND COOLING	1680-00-226-5504	LRU	Y
499-500	KIT OVERHAUL ACTUATOR	N/A	COMPONENTS	N
1062-00-3	VALVE, CONDITIONING SYSTEM, RAM AIR SHUTOFF	4810-01-039-8886	LRU	Y
1062-1000	KIT, OVERHAUL AND MAINTENANCE	4820-01-038-8532	COMPONENTS	N
199-12	GEAR SHAFT "A" ACTUATOR-PIN	5315-00-894-0588	COMPONENTS	N
199-17	BEARING ACTUATOR	1660-01-061-3992	COMPONENTS	N
199-20	DUAL STUD ACTUATOR	5340-00-853-4003	COMPONENTS	N
199-25	GEAR SHAFT "B" ACTUATOR - PIN	5315-00-894-0590	COMPONENTS	N
199-30	SWITCH SPRING	5360-01-061-4237	COMPONENTS	N
199-31-2	WIRE, ACTUATOR	N/A	COMPONENTS	N
199-31-3	WIRE DATA ACTUATOR	N/A	COMPONENTS	N
199-45	BEARING	3110-01-518-3441	COMPONENTS	N
299-08	GEAR PINION ASSEMBLY A	3020-00-859-1698	COMPONENTS	N
299-09	GEAR PINION "B" ACTUATOR	3020-00-859-1699	COMPONENTS	N
299-10	GEAR PINION "C" ACTUATOR	3020-00-859-1700	COMPONENTS	N
299-14	GEAR SHAFT ASSY	1660-00-859-0009	COMPONENTS	N
299-49	GROMMET	N/A	COMPONENTS	N
299-51	SCREW	N/A	COMPONENTS	N
299-52	CHOKE	5950-00-762-2995	COMPONENTS	N
299-55	INSULATION	5970-01-060-8744	COMPONENTS	N
299-56	INSULATION	N/A	COMPONENTS	N
496-500 (K96-06)	KIT CURE DATE	N/A	COMPONENTS	N
4567-00-3	VALVE, AIR STARTING CROSS BLEED	4810-01-559-3103	LRU	Y
396-00-505	CABIN AIR SAFETY VALVE	4810-00-483-3925	LRU	Y

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AEROFLUIDPRODUCTS

PART NUMBER	DESCRIPTION	NSN
103-16	PIN, STRAIGHT, HEADLESS	5315-00-949-4052
103-18	BUSHING, SLEEVE	3120-00-204-2014
1062-00-3	VALVE, REGULATING, FLUID PRESSURE	4810-01-039-8886
1062-54-1	MOTOR, ALTERNATING CURRENT	6105-01-045-0438
1062-58-1	PACKING, PREFORMED	5330-01-061-0215
1062-67-1	PACKING, PREFORMED	5330-01-063-9121
152-13	BUSHING, SLEEVE	3120-00-204-2022
152-16	PIN, STRAIGHT, HEADLESS	5315-00-204-2021
203-17	SPRING, HELICAL, TORSION	5360-00-878-1659
252-06	GEAR CLUSTER	3020-00-204-2018
252-09	GEAR CLUSTER	3020-00-204-2019
252-10	GEAR CLUSTER	3020-00-796-8179
252-11	GEAR CLUSTER	3020-00-796-8180
252-42	CAPACITOR, FIXED, PLASTIC DIELECTRIC	5910-01-074-5457
252-46	INSULATION, VALVE	1660-00-878-1662
252-54	CAPACITOR, FIXED, PLASTIC DIELECTRIC	5910-00-104-9654
255703		
296-18	SCREEN, VALVE	4810-00-073-7611
296-19	SPRING, HELICAL, COMPRESSION	5360-01-174-3826

PART NUMBER	DESCRIPTION	NSN
296-20	DIAPHRAGM, ACTUATOR VALVE, SPECIAL SH	4810-01-171-2828
296-24	SPRING, HELICAL, COMPRESSION	5360-01-175-4251
296-29	GASKET	5330-01-178-8378
299-08	GEAR, SPUR	3020-00-859-1698
299-10	GEAR, SPUR	3020-00-859-1700
299-14	GEAR AND SHAFT ASSEMBLY	1660-00-859-0009
299-16	ARM, SWITCH ACTUATOR	5930-00-859-0011
299-39	ARM, SWITCH ACTUATOR	5930-00-859-0012
299-52	COIL, RADIO FREQUENCY	5950-00-762-2995
303-31	SWING, VALVE	4810-00-056-3657
352-21	YOKE, ELECTRICAL SWITCH	5930-00-763-1744
352-23	PLATE, FRONT, ACTUATO	1660-00-475-0414
396-10	CAP, SAFETY, VALVE	1660-00-715-0303
396-40	DIAPHRAGM, ACTUATOR VALVE, SPECIAL SH	4810-01-171-2830
399-24	COVER, ACCESS	5340-00-056-1376
496-08	SOLENOID, ELECTRICAL	5945-00-846-8742
55-3100	VALVE, CHECK	4820-01-013-0407
K52-08	HARDWARE KIT, ELECTRONIC EQUIPMENT	5340-00-872-0254

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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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F-5 CAPABILITIES

Whippany Actuation Systems

PART NUMBER	DESCRIPTION	NSN
LA12-27-3	LINEAR ACTUATOR	1680-00-738-5959
LA12-46-1	LINEAR ACTUATOR	1680-01-265-2362
R1668	ROTARY ACTUATOR	1680-00-879-7301
R1668-1	ROTARY ACTUATOR	1680-00-872-7023
R550M44	LINEAR ACTUATOR	

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F-5 CAPABILITIES

Extant® AEROSPACE

COMBINED ALTITUDE RADAR ALTIMETER (CARA) AN/APN-232

P/N 8010000653-6
NSN 5841-01-301-4588

- 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)

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

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

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TRIUMPH™

Triumph Engine Control Systems 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.

PART NUMBER	DESCRIPTION	NSN
STD67117	ADAPTER ASSEMBLY, INTERFACE DEVICE	49200-00-542-4947
STD67306	ADAPTER ASSEMBLY, INTERFACE DEVICE	4920-00-545-7516



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Columbus Jack
A TRONAIR COMPANY

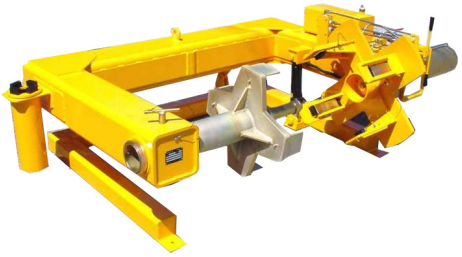
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VARIABLE HEIGHT TRIPOD JACK
MODEL 50J25178
10 TON CAPACITY
NSN 1730-00-516-2019



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

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