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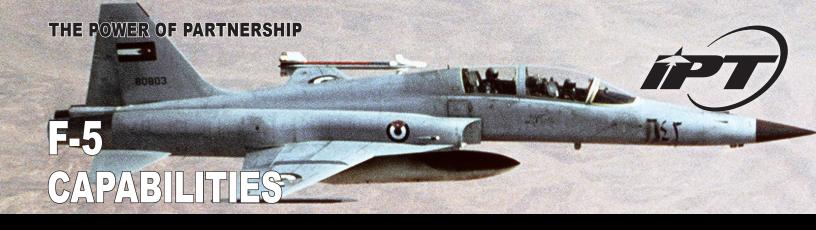
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INTEGRATED PROCUREMENT TECHNOLOGIES





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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740

The MA-2 Nozzle is mounted at the end of the receiver aircraft probe mast and when connected to the tanker aircraft MA-2, MA-3, MA-4 or MA-5 Coupling, it allows fuel to flow from the tanker to the receiver. The nozzle has a flexible tip that allows for off-center disconnects up to 22-1/2 degrees without damage.



P/N: 60318-2B NSN: 1680-01-114-8524 MILITARY STANDARD MS24356 (ASG)

BASIC OPERATING PARAMETERS & CHARACTERISTICS

Compatible with the fluids conforming to the following specifications:

- (a) MIL-J-5161
- (b) MIL-G-5572
- (c) MIL-T-5624
- (d) P-D-680
- (e) TT-S-735, types I and III (f) MIL-F-7024, types II

Weight: Approximately 4.5 pounds

Ambient: -67°F to 350°F Temperatures: Fluid: -67°F to 200°F

Proof: 240 PSIG Pressures: Burst: 360 PSIGt

Pressure Drop: 8 PSID maximum at 600 GPM with Jet A at 60°F when measured directly upstream of the nozzle, at the couplings latch port, and 10 diameters downstream of the bullet

Normal Operating Loads: (a) A 1,000-pound tensile load in combination with a 3,000-pound radial load

(b) A 1,000-pound compression load with a 3,000-pound radial load (c) A 2,000-pound tensile load

(d) A 2,000-pound compression load

Platforms: F-35, F-18, F-5, MiG-29, SU-30, Eurofighter Typhoon, SU-27, Rafale, Gripen, Mirage 2000, F-4, Mirage F1, MiG-31, SU-35, J-20 and MiG-25

Additional Comments / **Unique Features**

- Qualified to MIL-N-25161C Type 2, Class B.
- Conforms to MS24356-1.
- In accordance with MIL-A-19736.
- Compatible with all MA-3 and MA-4 Couplings

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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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INTEGRATED PROCUREMENT TECHNOLOGIES







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	Υ
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	Υ
499-00-1	ACTUATOR, DOOR GROUND COOLING	1680-00-226-5504	LRU	Υ
499-500	KIT OVERHAUL ACTUATOR	N/A	COMPONENTS	N
1062-00-3	VALVE, CONDITIONING SYSTEM, RAM AIR SHUTOFF	4810-01-039-8886	LRU	Υ
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	СНОКЕ	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	Υ

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INTEGRATED PROCUREMENT TECHNOLOGIES





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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INTEGRATED PROCUREMENT TECHNOLOGIES



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		1518C anel	RT-1504 Remote	RT-1614 Remote
FREQUENCY RANGE	225.000 to 399.97	5 MHz		
NO. OF CHANNELS	UHF 7000 (includion channel available fradio set control).	UHF 7000 (including 20 preset and 1 Guard channel available from panel mount RT and the radio set control).		ard and the
MODULATION TYPE	AM			
PRIMARY POWER				
R/T	Receiver: 35 watts Transmitter: 110 w 24 to 33 Vdc			al at
CONTROL BOXES	20 watts at 24 to 3	33 Vdc		
CHANNEL TIME CHANGE	0.25 second maxir	mum in n	ormal mode	
AGC	+5, -4 dB from 4 μ\	√ to 0.5V	(all receivers)	(1 mV ref)
SQUELCH				
ADJUSTMENT RANGE	0 to 4 μV minimun	n		
HYSTERESIS	2 to 8 dB			
ATTACK TIME	50 milliseconds m	aximum		
SELECTIVITY	Narrowband	Wi	deband	
6 dB	±12 kHz minimum	±35	kHz minimu	m
40 dB	±25 kHz maximum	٦		
60 dB		±	75 kHz	
AUDIO OUTPUT POWER LEVEL	Normal 200mW Min (Adj)	V	/ideband	
VOLTAGE LEVEL		2	.0 Vrms min	
LOAD IMPEDANCE	150 ohms	5	00 ohms	
RESPONSE	+1, -3 dB (300 to 3500 Hz)		, -5 dB 0 to 25 kHz)	
DISTORTION AT 50% MOD	10% maximum			
VOLTAGE LEVEL	35 dB	N	o squelch	
VOLTAGE LEVEL	37 dB	N	ot controlled	

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Avionic Instruments

Aerospace for Industry

TRANSFORMER RECTIFIER UNIT MODEL NO. RTR3360-1A/E-2020

The AI2 RTR Series of Regulated Transformer Rectifier units provides all the performance benefits of traditional unregulated TRUs with the added feature of precise output voltage regulation. A unique feature of the AI2 device provides continued unregulated performance in the event of an internal regulating failure. This patented topology achieves excellent input power factor stability over the entire load range, produces minimal reflected input current harmonics, exhibits high efficiency and TRU-like overload capability for APU start requirements. Point of regulation capability allows the RTR to be used in battery Charging applications. Any number of RTRs can be paralleled for higher power requirements.

GENERAL SPECIFICATIONS

INPUT VOLTAGE	108VAC to 118VAC L-L VAC, nominal 108 - 118 VAC, normal
INPUT CURRENT	12.5 per phase A typical at nominal input, rated load
EFFICIENCY	85%minimum from 50% to 100% rated load, nominal
OUTPUT VOLTAGE	28.5 VDC form normal input
INPUT FREQUENCY	320 to 480 hz
INPUT POWER FACTOR	0.95, minimum at full load
OVERLOAD	150% rated load for 5 min 300% rated load for 5 sec
OUTPUT CURRENT	120 A per phase, continuous
INPUT TRANSIENT SPIKES	No damage by surges up to 180V (100 msec) or spikes up to 600V (10)
OUTPUT RIPPLE	1.5 V P-P typical
TEMPERATURE RANGE	-55
COOLING	Integral Cooling Fan
MTBF	30,049 hours minimum, when calculated per Mil-Hdbk-217F, AIC, 70
QUALIFICATION LEVELS	MIL-STD Category

P/N: 1-002-0102-2020 NSN: 5950-01-536-1161

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INTEGRATED PROCUREMENT TECHNOLOGIES





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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INTEGRATED PROCUREMENT TECHNOLOGIES





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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INTEGRATED PROCUREMENT TECHNOLOGIES





Ontic Engineering and Manufacturing 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
103C125	GEAR CLUSTER	3020-01-006-5272
103C144	CLUTCH,IMPACT,ACTUATOR	1680-01-005-6257
103C191	ADAPTER,SWITCH ACTUATOR	5930-01-020-5209
2-12340-13	SHAFT,ACTUATOR	1680-01-005-6256
103C129-1	SHAFT,ACTUATOR	1680-01-005-6256



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INTEGRATED PROCUREMENT TECHNOLOGIES





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

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