










# A-29 CAPABILITIES



 <b>AEROFLUIDPRODUCTS</b>	<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>
 <b>TRIUMPH</b>	<p><b>Triumph</b> specializes in the design, development, certification, manufacture and repair of fuel pumps, fuel metering units, fuel controls, and electronic engine control systems.</p>
 <b>BAE SYSTEMS</b>	<p><b>BAE Systems</b> is a leading provider of aircraft countermeasures, multiband radios, seating, and cockpit display systems.</p>
 <b>TIMKEN</b>	<p><b>Timken</b> engineered bearings include tapered, spherical, cylindrical, thrust, ball, plain, miniature, precision, and housed unit bearings that deliver strong performance, consistently and reliably.</p>
 <b>SAFRAN</b>	<p><b>Safran</b> offers systems and equipment aircraft engines. These products include mechanical power transmission systems, engine control units, lubrication, cooling and filtration equipment.</p>
 <b>HARTWELL</b>	<p><b>Hartwell</b> is a leader for latches and flush catches including housing assembly, engine toggle assy, lock release lever, catch strike, mortise latch, lock trigger and more.</p>
 <b>ITT</b> <small>ENGINEERED FOR LIFE</small>	<p><b>ITT Aerospace Controls</b> manufactures linear and rotary actuators, fuel, hydraulic, pneumatic, motor and solenoid operated valves, pumps, and electro-mechanical switches.</p>

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# SUPER TUCANO CAPABILITIES



## AEROFLUIDPRODUCTS

PART NUMBER	DESCRIPTION	NSN
1400-00-1	SWITCH ASSEMBLY	5930-01-384-3745
1536-00-1	LEVER, REMOTE CONTROL	1680-01-375-5967
1434-00-70.07	LINE SECTION, RADIO FREQUENCY TRANSM	5985-01-384-3773
1436-00-6.30	ROD, CONTINUOUS THREAD	5306-01-518-3449
1332-22-1	NUT, SLEEVE	N/A
2196-70	BEARING	3110-01-031-4096
199-45	BEARING, BALL, ANNULAR	3110-01-518-3441
1589-00-3	VALVE, CHECK	4820-01-375-5915
1536-21-1	END BELL, ELECTRICAL ROTATING EQUIPMENT	2925-01-518-3443
1436-24-1	SPACER, STRAIGHT	5365-01-518-3450
1436-23-1	NUT, PLAIN, HEXAGON	5310-01-518-3448
1350-23-1	ACTUATOR, MECHANICAL, NONAIRCRAFT	3040-01-518-3452
1126-00-5	VALVE, CHECK	4820-01-363-7983
1118-22-5	WASHER, FLAT	5310-01-518-3446
1118-22-3	WASHER, FLAT	5310-01-518-3917
1118-22-1	WASHER, FLAT	5310-01-518-3445
1121-00-15	TANK, HYDRAULIC FLUID, AIRCRAFT	1650-01-391-8764
1126-00-5	VALVE, CHECK	4820-01-363-7983

PART NUMBER	DESCRIPTION	NSN
1215-21-1	SPROCKET WHEEL	3020-01-518-3444
1332-22-1	NUT, SLEEVE	5310-01-529-7800
1350-21-1	ADAPTOR, CABLE FITTING	1680-01-485-4388
1350-23-1	ACTUATOR, MECHANICAL, NONAIRCRAFT	3040-01-518-3452
1400-00-5		
1400-21-1	PLATE, IDENTIFICATION	9905-01-492-8314
1400-22-1	ARMATURE, MOTOR	6105-01-492-8397
1400-25-1	1400-25-1	6105-01-492-8398
1400-31-1	BEARING, BALL, AIRFRAME	3110-01-492-8396
1400-32-1	CARBON STOCK, ELECTRICAL CONTACT BRU	5977-01-492-8315
1400-33		
1434-00-70.07	LINE SECTION, RADIO FREQUENCY TRANSM	5985-01-384-3773
1434-20-1		
1536-22-1	ADAPTER, AIR CONDITIONING-HEATING, AIRCRAFT	1680-01-518-3439
1536-33-1		
1536-34-1	SEAL, PLAIN	5330-01-438-8244
1589-00-3	VALVE, CHECK	4820-01-375-5915
5344-00-1		

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P/N	DESCRIPTION	NSN
15655	ADAPTER	1680-00-873-6500
5431407-12	ACTUATOR,MECHANICAL,LINEAR ASSY	
28156-28	187 SIZE TELESCOPIC UNIT ASSEMBLY	
28157-20	UNIT,TELESCOPIC	5340-01-394-1797
26178-2	CONTROL,FLEXIBLE	
28158-40	TELESCOPIC,UNIT	



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# 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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## 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



MLV

### Memory Load Verifier (MLV)

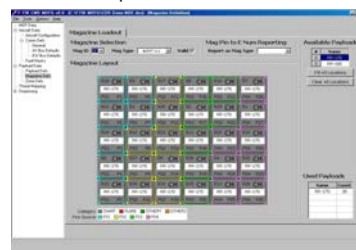
- Loads/Verifies ALE-47 Programmer Software
  - Mission Data File (MDF)
  - Operational Flight Program (OFP)
- MIL-STD-1553 Interface
- Hosted on a Ruggedized COTS computer
  - Suitable for Flightline Use
- Can be combined with TMG on single computer

### 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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## TIMKEN

P/N	DESCRIPTION	NSN
B5538WZZ-FS464	BEARING,BALL DOUBLE ROW	3110-01-152-8199
DSRP5-FS464	ROLLER, ROLLING	
DSRP4-FS464	BEARING	



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# SUPER TUCANO CAPABILITIES



P/N	DESCRIPTION
23080-060	DC STARTER GENERATOR
23080-504	QAD KIT
51525-014B	DC GENERATOR CONTROL UNIT



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# SUPER TUCANO CAPABILITIES



**DESCRIPTION:** LATCH | **P/N:** H-5100-2-.072-.218

**DESCRIPTION:** LATCH, CRES | **P/N:** H-5100-2-.102-.179



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ITT is a leader in designing, developing and manufacturing mission-critical lightweight and reliable solutions that aerospace engineers demand and passengers and flight crews deserve.

P/N	DESCRIPTION
1173T0302-03	SWITCH,TEMPERATURE
1103P273	SWITCH
1173T0303-01	SWITCH, TEMPERATURE LOW OIL
1103P161-2	PRESSURE SWITCH



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