Where Inspiration Meets Innovation

CONDENSED CATALOG

Ground Support Test Equipment
Distribution

WWW.BARFIELDINC.COM
Barfield has been manufacturing Ground Support Test Equipment (GSTE) for 60 years. Barfield produces highly-reliable user-friendly test equipment at competitive market prices and is also a distribution center, a Rotables and Trading partner, and an authorized repair station for European and US OEMs. Each Barfield test set is designed as a universal tester and includes a detailed operations manual. A wide range of aircraft specific adapter assemblies, cables and modules are also manufactured as part of Barfield’s product line. Barfield is also a leading distributor of aircraft Ground Support Test Equipment worldwide.

Adaptive Innovations

Barfield follows the path of its mother company Air France Industries KLM Engineering & Maintenance by encouraging an innovation-centric policy and mindset focused on developing value-added MRO solutions as part of its activities and services for its clients. “The MRO Lab” is a program where all the innovations developed by AFI KLM E&M and its network of affiliates converge. This innovative-driven culture is at the heart of Barfield Manufacturing Ground Support Test Equipment team, which has been manufacturing analog, digital, and RVSM pitot static test sets for over 50 years with the constant goal of reducing aircraft downtime & cost.

State-of-the-art Manufacturing

Barfield has a well-established reputation as the manufacturer of ground support test equipment for over 60 years. With an inventive product line and a team of highly qualified engineers and technicians, Barfield continues to transform and adapt to today’s competitive environment. From conception to production, Barfield products are designed and handled with great care in order to ensure durability and accuracy.

Customer Focus

Barfield has a dedicated sales team that constantly strives to ensure customer satisfaction when it comes to choosing the right product to meet their specific needs. Customers are treated with the utmost care and know they can rely on Barfield’s sales team to resolve any issue that may occur at any given time.
Introducing Wireless Firmware Update*
Using Newly Released App

The DPS1000 and the 1811NG can be fully operated either from the display screen or from the tablet App. Both Android and iOS versions are available for download from Google Play Store and Apple Store.

Barfield Innovative App operates as follow:
- Connects to the DPS1000 or 1811NG via available Wi-Fi technology
- Once Wi-Fi connection is established, the user can remotely operate the DPS1000 or 1811NG.
- The data on the tablet App is identical to the one on the DPS1000 or the 1811NG.
- When connecting to the DPS1000 or 1811NG, the App will detect its firmware (HUIM & PCM) version.
- If the firmware version on the DPS1000 or the 1811NG is older than the one on the App, it will automatically trigger an update to match the App firmware version, which is usually the latest one.

* Patent Pending

DPS1000
- Full automatic control
- 7" Color Graphic Touch Screen resident display
- LCD sunlight readable
- Usable with gloves in cold climate
- Versatility to update user interfaces & features
- Go to ground function
- Auto leak test custom profiles
- Programmable limit protections
- Altitude correction
- Limited 2 Year Warranty

1811NG
- Great accuracy
- CE certified
- Altitude compensation for leak testing
- Durable wheels & extendable handle on case
- Limited 2 Year Warranty
**1811D**

P/N 101-00164

**Features**

- Ideal for flightline calibration checks and troubleshooting
- Performs precision Pitot-Static leak tests
- Two-instrument combination with optional ranges
- Correction cards for all analog instruments
- 1-year calibration cycle for digital 1811’s
- Fully portable and self-contained (No electric or external pressure sources needed)
- Lightweight plastic case for portability
- Digital instruments version contains four indications (altitude, airspeed, vertical speed and mach)

**1811HA**

P/N 101-00184

**Features**

- Compact fiberglass case allows unit to fit in tight quarters
- Performs precision Pitot-Static leak tests
- Performs on-board instrument calibration checks
- Correction cards for all analog instruments
- 1-year calibration cycle for digital 1811’s
- Three-instrument capability for analog units with optional ranges
- Operates from 115/230 VAC 50-400Hz
- Fully portable, self-contained (No electric or external pressure sources required)
- Digital instruments contain four indications (altitude, airspeed, vertical speed and mach)
- Vacuum & pressure hand pumps installed

**1811GA**

P/N 101-00185

**Features**

- Ideal for flightline calibration checks and troubleshooting
- Performs precision Pitot-Static leak tests
- Two-instrument combination with optional ranges
- Digital instruments contain four indications (altitude, airspeed, vertical speed and mach)
- 1-year calibration cycle for digital 1811’s

**DALT55 & DAS650**

**Features**

- Digital instruments version contains four indications (altitude, airspeed, vertical speed and mach)

**DALT55**

P/N 101-02184

**DAS650**

P/N 101-02194
Nav-Aids adapters are available for all aircraft and helicopter types.

Air Data Accessory Kits
Air data accessory kits contain all the required test adapters and hoses to connect the air data test set to the aircraft type for which the kit is designed. Also included as standard equipment are pre-test adapters, seal kits and lubrication fluid. Depending on the need, additional equipment such as control consoles and suspension arms are a part of the kit. RVSM Air data accessory kits are available.

Pitot Test Adapters
The pitot test adapter body is of solid uni-body construction. There is no metal to metal contact between pitot tube and test adapters. Seals and spacers inside the adapter body ensure a leak free connection. They are easily exchanged without special tools. Optional high temperature seals and spacers can be installed upon request.

Static Test Adapters
Static test adapters provide a connecting seal at the aircraft’s static ports. The means of attachment depend on the aircraft type. Installation and removal of our adapters takes just a few seconds.

Pre-Test Probes
The Nav-Aids pre-testers are used to verify the integrity of the pitot test adapter, the hoses and the air data test set prior to connecting to the aircraft. The probe is inserted into the pitot test adapter while connected to the hose and air data test set. By applying pneumatic pressure, the entire assembly (tester, hoses & adapters) is checked for leakage.

Customized Kits Available
DFQ40K

Features

- Microprocessor based
- Completely self contained AC capacitance fuel quantity test system.
- Measures capacitance, insulation, DC voltage, resistance and distance to fault.
- Capacitance simulation and indicator testing.
- Custom multi-line backlit graphic display.
- Direct keypad entry of Tank and Comp simulation values.
- Uses all existing fuel quantity cables.
- Uses new generation of Smart Cables to perform Automated Test Routines.
- Calibration date available from display with user alerts to approaching calibration date.
- Numerous user prompts.
- Powered from common “C” batteries with auto-off feature to conserve batteries.

AC Adapter Cables

Adapters available for aircraft using AC fuel systems

- ATR
- Airbus
- Bell Helicopter
- Boeing
- Canadair
- Casa
- Cessna
- Dehavilland
- Embraer
- Eurocopter/Aerospatiale/MBB
- Fairchild
- Falcon Jet
- Fokker
- Gulfstream
- Hawker Beechcraft (C-90, A100) Beechjet
- Hawker-Siddeley
- IAI
- Learjet
- Lockheed
- McDonnell-Douglas\Boeing
- Mitsubishi
- Nord
- Pilatus
- Piper
- Rockwell
- Sikorsky
- Socata
- Swearingen

DFQ40K
P/N 101-01501
DC400A

Features

- Completely self contained DC capacitance fuel quantity test system.
- Capability to bench check aircraft fuel quantity system components.
- Capacitance simulation in the range of 0 to 400 pF with infinite resolution.
- 4 1/2-digit liquid crystal display.
- Interchangeable aircraft interface modules.
- Powered from common AA batteries.
- Provisions for bench-testing of system components.
- State-of-the-art low battery drain circuitry.

DC400A
P/N 101-00850

DC400A Adapter Modules

Adapters available for aircraft using DC fuel systems

- BAe Jetstream 41
- Bell Helicopter 214ST
- Bell Helicopter 412SP, 412HP
- Dehavilland DHC8
- Embraer EMB-120
- Hawker Beechcraft King Air C-99 & 1900
- Hawker Beechcraft 125-800
- Hawker Beechcraft 125-1000
- Piper Meridian
- SAAB SF 340
- Swearingen SJ30-2
**TT1200A**

**Key Facts**
- Displays the temperature in °F in addition to °C and millivoltage
- Has a calibrated temperature range of 1372 °C
- Powered from long lasting C-cell batteries with auto-off feature to conserve batteries
- True 4-wire resistance measurements
- Calibration date reminder available from display with user alerts for approaching CAL date
- Backlit 16-character alphanumeric display with user prompts
- CE certified
- Accuracy: Typical measurement error at ambient (25°C) less than ±0.5°C simulated system lead resistance

**Options & Accessories**
- 101-00932 Adapter cable for testing GE CF6-80 A, A1 and C2 engines.
- 101-00933 Adapter cable for testing GE CF6-6 and CF6-50 engines

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**TT1000A**

**Key Facts**
- Automatically compensates for ambient temperature at test lead connection junction point or indicates cold junction temperature
- Thermocouple and lead resistance measurements to 0.01 ohm and insulation measurements up to two (2) megohms
- Large, 9mm (0.35") high character, 3 1/2-digit liquid crystal display with pre-programmed legends
- Range: from 0 to 1000°C certified, -60 to 1160°C extended
- Measures and displays values of CH/AL thermocouple in terms of degrees Celsius (°C) temperature
- Simulates CH/AL thermocouple with or without simulated system lead resistance

**Options & Accessories**
- MOD B: Millivoltage doubler. For use on 16-ohm systems.
- 102-00902 Specially modified TT1000, adapter cable and carrying case for testing GE CF6-80 A, A1 and C2 engines.
- 102-00908 Specially modified TT1000, adapter cable and carrying case for testing GE CF6-6 and CF6-50 engines.
- 137-08001 45V Battery Replacement Converter.
CT12A Cable Tensionmeter

Features
- Meets new OEM specifications
- 10-year useful life span
- Rechargeable battery
- 4-character digital display
- Simple 3-button operation
- Available as single cable fixed riser or multi-cable riser
- No conversion table required
- Ten (10) minute automatic shut off feature resistance
- Ambient temperature reading

Configurations
- 102-03101 (1/16” Diameter) single cable
- 102-03102 (3/32” Diameter) single cable
- 102-03103 (1/8” Diameter) single cable
- 102-03104 (5/32” Diameter) single cable
- 102-03105 (3/16” Diameter) single cable
- 102-03106 (7/32” Diameter) single cable
- 102-03107 (1/4” Diameter) single cable
- 102-03108 (1/16” - 1/4” Diameter) multi-cable
- 102-03120 (1/16” - 3/16” Diameter) multi-cable

2311FA Pressure Tester

Features
- Manufactured with lightweight aluminum-alloy
- Field tests aircraft fluid pressure systems
- Provides for both leak and calibration tests
- Pressure source for pressure transducers, warning switches and direct reading pressure gauges
- Applicable for shop or line use
- No electric or pneumatic source needed
- Analog and digital gauges available

Accessories
- Standard gauge accuracy ± 2 % of full scale
  0-60 PSI, order P/N 304-00003
  0-200 PSI, order P/N 304-00004
  0-600 PSI, order P/N 304-00005
- Inspector gauge accuracy ± ½ % of full scale
  0-60 PSI, order P/N 304-00100
  0-100 PSI, order P/N 304-00101
  0-160 PSI, order P/N 304-00102
  0-200 PSI, order P/N 304-00109
  0-300 PSI, order P/N 304-00103
  0-600 PSI, order P/N 304-00104
- Digital gauge accuracy ± ½ % of full scale
  0-200 PSI, 304-00006
  0-500 PSI, 304-00007

SC063 Sight Compass

Features
- Calibration device for mounted aircraft compass
- Indicates magnetic direction at all times
- Rugged, durable and lightweight
- Accurate to within ±1 degree
- Hand-held and portable
- Protective carrying case included
- Mono-Pod
2311FA Pressure Tester Kits

Barfield develops customized Pressure Tester Kits for shop and field testing of pressure switches and transducers in pressurized fluid systems. These Pressure Tester Kits are also used in reciprocating, turbine engines and airframe pressure systems. The Kits also have Leak Testing capability of closed loop fluid systems.

Barfield Pressure Tester Kits are provided in rugged NATO approved protective cases with wheels and extendable handles for easy transport and protection of the system components.

Available Part Numbers
- Apache Helicopter - P/N: 102-00214
- Eurocopter/Airbus Helicopter - P/N: 102-00212

Digital Pressure Tester Kit

RETROFIT

From Broken Analogs to Digital Instruments

Barfield offers upgrades of its older 1811 series of pitot static testers to the latest indicator technology.

The DALT55 and the DAS650 use state-of-the-art transducer technology for pressure measurements, making them virtually immune to the frequent and costly repairs generally associated with analog instruments. The advantage of the transducer technology is reduction of maintenance costs, down time and overall customer frustration over repeated broken equipment.

Retrofit includes:
- 1 DALT55
- 1 DAS650
- Rechargeable battery pack/Charged
- Installation
Calibration and Repair Services

Features

- Electronic transducer technology (no more blown instruments)
- Minimal overpressure damage
- One button leak test feature
- DALT55 displays altitude and VSI simultaneously
- DAS650 displays airspeed. (If coupled with DALT55, Mach is displayed).
- Rechargeable battery pack
- Battery power level displayed on main screen
- One year calibration cycle

Benefits of Sending Equipment to the OEM

The OEM offers additional benefits and extras such as:

- OEM designated free mods, including software updates
- Highest level of technical knowledge of the equipment
- Advanced cal/bench check: standard system & component checks
- Dedicated repair shop and customer service team
- Latest revision verification on users’ Instruction Manuals
**Franke Part Numbers**
- 290192100110
- 2980032100110

Replace Franke Part Number with:
- EAI’s (EAI-2001)
- Replacement Element

**Franke Element**

**Specifications**
- Replaces Adams Rite or Franke Aquarotter
- Self-Closing Faucet
- Weighs less than Adams Rite and Franke Aquarotter
- PMA Approved
- Finishes available Standard Matte or Custom Colors
- Single or Dual Temperature available
- 3 - year Manufacturer’s Warranty
- Made in USA - Erie, PA

**Faucet Element**

**Specifications**
- P/N 194-00073
- Black case with custom PE foam.
- Dimensions: 17.9” x 24.1” x 12.0” with 1.9” lid and a 10.1” bottom.
- One-touch extension handle.

**Weight:** 716 grams

**ERIE AVIATION**

**DPS1000/1811NG - Travel/Shipping Case**

Barfield offers a customized, ruggedized shipping case for the DPS1000 and the 1811NG. It is an airtight, watertight and injection molded case with wheels, designed and sized to qualify as a checked bag with most airlines.

**Features**
- P/N 194-00073
- Black case with custom PE foam.
- Dimensions: 17.9” x 24.1” x 12.0” with 1.9” lid and a 10.1” bottom.
- One-touch extension handle.

**Optional Travel/Shipping Case**

**Lavatory Faucet**

**Specifications**
- Replaces Adams Rite or Franke Aquarotter
- Self-Closing Faucet
- Weighs less than Adams Rite and Franke Aquarotter
- PMA Approved
- Finishes available Standard Matte or Custom Colors
- Single or Dual Temperature available
- 3 - year Manufacturer’s Warranty
- Made in USA - Erie, PA
Barfield is the exclusive distributor of Stelia Aerospace (formally EADS Sogerma) for the Americas. Stelia has been a premier manufacturer of high quality Aerospace seats for over 40 years. Barfield provides complete sales and technical support for new cockpit and cabin class seats. It has an extensive inventory of piece parts ready to ship and offers AOG services as well. Barfield is the only OEM authorized warranty & repair station in the Americas with locations in Miami, FL and Phoenix, AZ.

Cockpit / Technical seats:
- Airbus
- Hawker / Beech
- Learjet

Cabin Attendant / Crew Seats:
- Airbus
- Boeing
- Fokker

First Class and Business Class seats:
- ULTIMATE 17°
- SOLTYS°
- SOLTYS III°
- COMET°
- EQUINOX Series°
- CELESTE°
- Sales & Support

Barfield distributes a variety of Airgroup America products. The company manufactures different PMA products specializing in high precision bearings, hardware and value added kitting.

Features
- Lower cost
- All trace docs
- PMA approvals

Falgayras Company has developed a complete wiping solution meant for the military and civil aircraft manufacturers (engine, arm and wiper). This solution is totally innovative and is patented. It suppresses the kinematic which is traditionally found in this kind of equipment.
AIRBUS AVIONICS PRODUCT TESTERS

Main Landing Gear Wheel Tachometer Driving Tool

Features
- Control the rotation direction of the motors
- Control the speed of the motors
- Check the RPM of the motors
- Unit is supplied with 28VDC and protected by a 5A fuse

Check Doors Tool

Features
- Adjustment of Eldec proximity detector for FAR and NEAR configurations
- Check PETERCEM proximity detectors
- Self dependent by means of 18VC power supply
- Check of cargo compartment doors locked position indicating section

28 VDC Power Supply Tool

Features
- Activate side stick solenoid to enable the adjustment of transducer unit input lever
- Simulate auto pilot mode to check operation of spring rod in artificial feel unit
- Models available for A319, A320, A321
- Models available for A330, A340
- Models available for A340-500-600

AIRBUS

Since 1989 Barfield has been supporting Airbus in the Americas. Barfield specializes not only on product distribution but also on warranty repair services and maintenance for numerous Airbus avionic systems. Barfield is committed to providing the best-in-class service level for everyday operations including:

Features
- Complete range of avionics products (FWC, SDAC, ECAM Control Panels, FSA, IMA and more)
- Radomes inventory that cover all Airbus aircraft family
- System, LRU, line maintenance and piece parts
- Retrofit Campaigns
- AOG Services

A320

Features
- ECP (35-0L0)
- SDAC (35-0E5)
- Built-in test
- ATSU (LA2T0)
- NOSE RADOME

A330 - A340

Features
- FCPC (LA2K0/LA2K1/LA2K2)
- ECAM CONTROL PANEL (LA2E9)
- FWC (LA2E0/LA2E2)
- RADOME

A350

Features
- FLIGHT CONTROL PRIMARY COMPUTER
- FLYSMART INFORMATION SYSTEM
- BMU
- NOSE RADOME

A380

Features
- FCGU (LA8P0)
- ANSU (251375101)
- NCU (251375143)
ELTA

ELITE RANGE EMERGENCY LOCATOR TRANSMITTERS
Automatic Fixed & Survival Elts

Transmitter Description
- Embedded GPS receiver
- Embedded antennas
- ARINC 429 connection
- User Interface (UI) display controls for manual activation and complete maintenance reports
- Automatic, manual and water activation
- Removable float

Automatic Fixed Bracket
- Orientable g-switch (90° step)
- RFID coding tag
- External antenna access
- Cockpit RCP access

Survival Bracket Or Bag
- Rigid fixation in the cabin
- RFID coding tag
- Easily removable
- Fire protected

Maintenance
- On-board transmitter selftest: RF output power, 406 frequency operation…
- Battery status indicated on UI
- ELT coding on UI
- Battery life: 5 years + 1 year (2 «D» Cells with safety features)

Survival Configuration

LITEF
Barfield has been a strategic partner with Litef in the Americas for over 25 years. The company specializes in the FCDC Flight control Data Concentrator for the A320 family of aircraft.

Barfield offers:
- New LRU sales
- Repair Services
- OEM warranty
- AOG Support
Aircraft Distribution
FAA/ETSO Approved

Barfield is the exclusive distributor of Olaer products in the Americas. As the oldest manufacturer of hydraulic accumulators, Olaer provides a full range of bladder accumulators, and membrane accumulators. We are also the OEM authorized warranty/repair sta-

Features
- All LRU’s and piece parts available
- Adaptable high flow fluid ports
- Wide pressure range
- Adaptation low and high temperatures
- Horizontal or vertical installation

SIEMENS

SMOKE DETECTION SYSTEM

-Line Maintenance
- Conversions and Completions
- IFE/Interconnectivity Protection

Deploying Optical Smoke Detection Safety

- “Open air” multi-purpose detectors using natural propagation of the air.
- “flow-thru” multi-points detectors sampling air through a range of sniffers and fans.
- “duct” for electronic and avionics bays, using Venturi effect to sample air.
NEW ADVANCED SOLUTIONS PRODUCTS

FLUKE

DS701 and DS703 FC Diagnostic Videoscopes

A powerful diagnostic videoscope designed to stand up to the dirtiest, most harsh environments.

Fluke Diagnostic Videoscopes put high-resolution images in the palm of your hand.

279 FC True Thermal Multimeter

Scan with the thermal imager to find electrical problems rapidly and from a safe distance. Check hot spots on high-voltage equipment and transformers; identify heating of fuses, wires, insulators, connectors, splices and switches. The 279 FC now allows you to save, recall and review saved images on the meter. You’ll be certain that you have the image you need before moving on.

Infrared Thermometers

The Fluke non-contact thermometers are the ideal professional diagnostic tool for quick and accurate temperature measurements. This handheld portable tool enables professionals to research heating and ventilation problems, monitor the status of electrical motors and electrical panels and diagnose malfunctions with ease.

1587 FC Insulation Multimeters

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, true-rms digital multi-meter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.
Pro Active Maintenance Tools

The new Fluke 434, 435 and 437 Series II models help locate, predict, prevent, and troubleshoot power quality problems in three-phase and single-phase power distribution systems.

Power Quality Analyzers

The new Fluke 370 FC Series (376 FC, 375 FC and 374 FC) offers advanced troubleshooting performance. The iFlex® flex-ible current probe allows easy connections to wires in tight spaces. In addition, all three clamps are now part of the Fluke Connect® family of wireless test tools.

Clamp Meters

Fluke Connect® compatible

Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus. Simply point and shoot—the camera automatically processes a stack of images focused

Ti480, Ti450, Ti400 and Ti300 Infrared Cameras

Reduced testing complexity, a simplified workflow and an intuitive user interface provide a new level of ease-of-use in battery testing.

500 Series Battery Analyzers
UNIVERSAL SYNAPTICS

Voyager Intermittent Fault Detector

The Voyager Intermittent Fault Detector™ (VIFD™): the powerful, flexible, and effective Intermittent Fault Detection (IFD) and Intactness test solution that will test anything from wiring to relays, circuit breakers, connectors, ribbon-cables and more.

AMPROBE

TIC 300 Pro

The Amprobe TIC 300 PRO high voltage detector is a non-contact voltage detector for detecting alternating current (AC) on transmission lines, power distribution equipment, downed power lines, fuses, electrical outlets, and other power lines. It detects voltages in low, medium and high voltage applications (30-122kVAC) with bright visual and loud alerts.

BIRD

SiteHawk RF Antenna and Cable Analyzer - Aviation Test Kit

Bird SiteHawk Test Kit includes the SK-4500 Antenna and cable analyzer in a hard carrying case along with a selection of essential accessories; it’s ideally suited for field techs and engineers who need to quickly diagnose and resolve problems with communications systems. The pocket-sized SiteHawk Antenna and Cable Analyzer operates from 1 MHz to 4.5 MHz and features an intuitive interface readily accessible to even the first time user.