
PRELIMINARY PRECAUTIONS
1. Remove thermocouple leads at indicator or other accessible terminals.
2. Measure system resistance with cold engine for greatest accuracy.
3. Approximately 45 VDC (no load) is present on Test Leads when making insulation measurements.
4. 'BAT' warning on display indicates low system battery only.
5. Allow test clips time to reach ambient for all temperature tests.
6. Turn battery switch 'ON' for all tests.
MEASURE SYSTEM RESISTANCE
1. FUNCTION to 'RESISTANCE MEASURE'.
2. RESISTANCE RANGE to '20Ω' or '200Ω' for systems over 20 ohms.
3. Connect clips to leads removed from indicator terminals.
4. Press 'PUSH TO MEASURE' black button to read resistance.
P/N 245-00041
MEASURE INSULATION
1. FUNCTION to 'RESISTANCE MEASURE'.
2. RESISTANCE RANGE to '2MΩ'.
3. Connect black clip to airframe and red clip to thermocouple leads.
4. Press 'PUSH TO MEASURE' black button and read resistance in megohms.
INDICATOR TEST (With Lead Res.)
1. FUNCTION to 'RESISTANCE MEASURE'.
2. RESISTANCE RANGE to '20Ω' under 20 ohms; '200Ω' for greater than 20 ohms.
3. Short test clips together.
4. Press red 'PUSH TO SET' button and adjust SYSTEM RES for system resistance to be simulated.
5. Set FUNCTION to 'INDICATOR TEST'.
6. Connect black clip to (-) alumel indicator terminal and red to (+) chromel terminal.
7. Set TEMP ADJ for temperature test desired and compare with indicator.
INDICATOR TEST (Without Lead Res.)
1. FUNCTION to 'INDICATOR TEST'.
2. RESISTANCE RANGE TO '2MΩ (0Ω SYS RES)'.
3. Connect black clip to (-) alumel indicator lead; red to (+) chromel.
TEMPERATURE MEASUREMENT
1. FUNCTION to 'TEMP MEASURE'.
2. Connect black clip to alumel (-) thermocouple lead and red to chromel (+) lead.
3. Read indicated temperature.
INSULATION BATTERY TEST
1. FUNCTION to 'RESISTANCE MEASURE'.
2. RESISTANCE RANGE to 'BAT' and read battery voltage (30-50V).
NOTE: A display of '1_____' indicates an overrange. (BEYOND FULL SCALE)
Printed in U.S.A.
SN:5972
NOTE
FUSE LOCATED INSIDE
REPLACE WITH AGC 1/2
BARFIELD
OFF
RES.
25 Ω
BAT
SHORT TEST LEADS AND PUSH TO SET SYS RES.
MIN.
MAX.
RESISTANCE MEASURE
TEMP MEASURE
RESISTANCE RANGE
PUSH TO MEASURE ACFT LEAD RES.
FUNCTION
BARFIELD
TURBINE TEMPERATURE TEST SET
P/N 101-00030
S/N 14000A
S/N 5972
MOD A & C
DWG

BARFIELD INC.
4101 N.W. 29TH ST.
Miami Fl - 33142
(800) 321-1039

BARFIELD

CERTIFICATE OF CALIBRATION/ FUNCTIONAL TEST

W.O. No.: WO1231378

Customer Name: PIUS PARTS

Date of Certification: 9/5/2025
Part Number: 101-00901
Serial Number: 5972
Description: DIGITAL TURBINE TEMP. T/S
Manufacturer: BARFIELD INC.

Certification Due Date: 9/5/2026
Received in Tolerance: YES
Returned in Tolerance: YES
Temperature: 74°
Humidity: 51%

Calibration Procedure Used: 20-101-00901

Deviation: N/A

STANDARDS USED TO CERTIFY EQUIPMENT

Equipment	Serial Number	Last Date Calibrated	Next Calibration Date
3729E	US36088159	6/25	6/26
4115EB	184D18119	4/25	4/26
4782E	92364	2/25	2/26
2398EB	B0001	2/25	2/26

Comments: NO FAULT FOUND.

Results: CALIBRATED AND TESTED W/I MFG SPECS.

This is to certify that the above listed part number meets or exceeds all specifications as stated in the referenced procedure at the points tested (unless otherwise noted). Calibration Standards used in the calibration of this product are traceable to the National Institute of Standards and Technology (NIST). Unless otherwise stated the uncertainty of the measurement standards shall not exceed 25% of the acceptable tolerance. This calibration is in accordance with Barfield Inc. Quality Management System (QPM-7.6) which is ISO 9001:2015/AS9100 D certified and compliant with MIL-STD-45662A, ANSI/NCSL Z540.1-1994 (R2002) and ISO 10012.

F.D. 01045

Certified by: Freddy Dugué

Title/Stamp: Q.C. INSPECTOR

Dated: 9/5/2025