

1.0 General

This document details the limited warranty offered by Gables Engineering Inc. (“Gables”) associated with the direct sales of products, Buyer Furnished Equipment (BFE) and Supplier Purchased Equipment (SPE).

This limited warranty does not apply if the airframe manufacturer purchases the product as Seller Furnished Equipment (SFE).

2.0 Limited Warranty

Gables warrants to Purchaser that products will be free from defects in design, material, and workmanship. These products are warranted for failures occurring under normal use and service for which the products were intended, subject to all of the conditions and qualifications hereinafter stated.

Within the warranty period of each product as stated below, Gables will repair, replace or reimburse Buyer for repair of products determined to be the responsibility of Gables.

2.1 Warranty Periods

PRODUCTS WARRANTED	EFFECTIVITY	WARRANTY PERIOD
Line Replaceable Units (LRUs)	G6990 Series G6992 Series G7165 Series G718X Series G7400 Series and later such as: G7404 Series G7406 Series G7490 Series G7500 Series G7600 Series	Sixty (60) months from the date of installation on aircraft, not to exceed sixty six (66) months from date of shipment from Gables. Exclusions: Incandescent Lamps
	G7300 Series and earlier with exclusion of the series listed above.	Thirty six (36) months from date of installation on aircraft, not to exceed forty-two (42) months from date of shipment from Gables. Exclusions: Incandescent Lamps
Component Parts	All component parts except LCD glass and display modules	Three (3) months from date of installation on aircraft, not to exceed six (6) months from the date of shipment from Gables, whichever occurs first. See special provisions below for LCD glass and modules.

PRODUCTS WARRANTED	EFFECTIVITY	WARRANTY PERIOD
Test Equipment/Tooling	ASI-1002 Test Box and Adapter Cables	Twenty-four (24) months from the original date of shipment from Gables.
LCD Display Module	Exchange Program and Display Module Purchases	Twelve (12) months from date of shipment from Gables.
LCD Glass	Sale of LCD glass is limited to non-modular display assemblies	Three (3) months from date of installation on aircraft, not to exceed six (6) months from date of shipment from Gables, whichever occurs first.

2.2 Limitations

2.2.1 Gables shall not be obligated or liable under this warranty for damage due to:

- (a) tampering;
- (b) misuse;
- (c) abuse;
- (d) neglect;
- (e) improper storage;
- (f) improper repair or unauthorized repair;
- (g) liquid spills;
- (h) repairs performed outside Gables CMM or standard maintenance practices;
- (i) improper installation.

2.2.2 Gables' warranty does not cover removal or re-installation of equipment in the aircraft.

2.2.3 Warranty is applicable only if an effective repair was made and the unit was returned to a serviceable condition.

2.2.4 All warranty repair work is to be accomplished on an on-condition basis. Gables is responsible only for rectifying the defect which caused the Purchaser's specified failure. Gables will, however, take reasonable steps to identify other defects not identified by Purchaser.

2.2.5 GABLES SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR OTHER TYPE OF DAMAGES RESULTING FROM OR CAUSED BY THE USE, OPERATION, FAILURE, MALFUNCTION OR DEFECT OF ANY GABLES PRODUCT COVERED BY THIS WARRANTY.

2.2.6 Repair under warranty does not renew or extend the standard warranty; however, the original warranty does remain in effect for the unused portion of the original warranty.

2.2.7 Purchaser will be charged labor time for inspection, testing and transportation of units returned to Gables for repair if the failure of the unit cannot be confirmed.

2.2.8 All warranty repair work is to be accomplished by Purchaser, Gables or Gables Authorized Warranty Repair Facility. Repairs carried out by Purchaser's agent or other facilities not noted previously are not eligible for warranty reimbursement.

2.2.9 THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED INCLUDING THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

3.0 Warranty Procedures

Note:
FAILURE TO ADHERE TO STATED WARRANTY PROCEDURES MAY RESULT IN A DELAY OR REJECTION OF WARRANTY CLAIM.

3.1 Procedures

- 3.1.1 Warranty claims shall be submitted for the following items:
- (a) LRUs that fail during the defined warranty period.
 - (b) Spare (component) parts found to be damaged or bad from stock.
 - (c) To replace damaged or bad-from-stock components, the Purchaser must purchase replacement parts, return subject parts and submit a warranty claim. If approved by Gables, the Purchaser's account will be credited the original purchase price.
- 3.1.2 In the event of shipment of wrong part or incorrect quantity, Purchaser shall contact the Gables Sales Representative and request a return material authorization (RMA).
- 3.1.3 Purchaser should establish whether unit is eligible for warranty.
- 3.1.4 If there is any doubt as to whether a unit is under warranty, confirmation must be obtained from Gables prior to the repair. Should a facility repair a unit which Gables determines is out of warranty, the facility or Purchaser is responsible for charges.
- 3.1.5 Purchaser must prepare a Warranty Claim Form for each warranty incident and send it to Gables. Warranty claims are accepted only when accompanied by all information as specified in paragraph 3.2.1.
- 3.1.6 All warranty claims must be submitted within ninety (90) days of the completion of work. Warranty claims submitted ninety (90) days after completion of repair work will be rejected.
- 3.1.7 Gables will determine the validity of Purchaser's warranty claim under the criteria given in Section 4.0.
- 3.1.8 Gables', in its sole discretion will evaluate the validity of the warranty claim. Under no circumstances shall a Purchaser debit Gables' account.
- 3.1.9 If a unit is eligible for warranty consideration, Gables will either repair, replace or reimburse Purchaser for repair of products, at Gables' discretion. If unit is not under warranty, the Purchaser will be notified with estimate for cost to repair.
- 3.1.10 In the event that parts of any assembly are replaced by a Repair Facility, the removed parts shall be tagged with the unit number, the serial number and the warranty claim number. Such parts shall either be automatically returned to Gables for analysis as stated in 3.2.2 d) or retained by the Repair Facility for a period of three (3) months.

- 3.1.11 In the event the reported fault cannot be verified on a unit under warranty, the Purchaser will be billed for labor incurred for inspection, testing and all transportation charges.
- 3.1.12 Gables will reimburse reasonable freight charges for round trip second day air shipping charges to customers in the continental US, and round trip express air for international customers. If a freight forwarder is used, Gables is only responsible for round trip second day air shipping charges to the designated freight forwarder. Gables shall not be responsible for customs, broker, or other third party or related charges.

3.2 Warranty Claim Form Information

3.2.1 Gables Warranty Repairs

If repair work is to be performed by Gables Engineering, Inc., the following information must be provided:

- (a) Purchaser
Name, address, telephone, e-mail and fax numbers of owner of unit.
- (b) Work Order, Invoice, or Service Reference Number
A unique reference number identifying the repair request.
- (c) Removal Reason
Detailed description of complaint, and removal date.
- (d) Unit Identification
Full nomenclature of the unit, part number with dash number, and serial number.
- (e) Unit History
Additional information about unit, such as; flight hours since last removed, type of aircraft, type of associated equipment, previous problems, environmental conditions, etc. is helpful.
- (f) Special Instructions
Any special requirements affecting the repair or shipping of the unit.
- (g) Service Contact
Name, telephone and fax/telex number of service technician, or engineer who can discuss the technical problems concerning the unit.

3.2.2 Purchaser Warranty Repairs

If repair is to be performed by a Gables Authorized Repair Facility or Operator repair facility, all of the information in Section 3.2.1 must be supplied as well as the following information:

- (a) Labor Hours
Indicate bench labor hours required to perform level 2 (subassembly replacement) repair. This time must not exceed the Gables three (3) hour standard time limit for control panels, four (4) hours for Radio Tuning Panels (G7404-XX) and five (5) hours for Audio Management Units without prior authorization from the Gables Warranty Administrator.

- (b) Labor Rate
Reimbursement for warranty labor will be at the Gables authorized warranty labor rate or repair shop labor rate, whichever is less.
- (c) Work Performed
Describe the corrective action taken to repair the specific defect that caused the original removal. The description must be specific and detailed including drawing references, component numbers, etc.
- (d) Defective Parts
List the defective parts replaced during the repair. Include Gables part number, serial number, OEM part number and serial number (if applicable), and quantity used during the repair. If the replacement cost of a single defective part exceeds \$250.00 USD, that part shall be returned with the warranty claim.
- (e) Authorization
Signature of representative of authorized repair facility, and date service was performed.

3.3 A warranty claim form must be submitted for each warranty claim.

Send Warranty Claim Form to:

GABLES ENGINEERING, INC.
247 GRECO AVENUE
CORAL GABLES, FL 33146
ATTENTION: WARRANTY ADMINISTRATION

Or E-mail to:

Warranty@gableseng.com

4.0 Failure Validity

4.1 Valid Failures

- 4.1.1 A failure is valid when the unit fails to perform its intended function, and when it has been installed and maintained to current industry and regulatory standards.
- 4.1.2 A failure is also valid if such failure is caused by one or more of the following:
 - (a) Adjustment: Any unit requiring an adjustment to reestablish satisfactory performance will be considered a relevant adjustment failure where such adjustment is not available to the operator through manipulation of panel operator controls. Adjustment of operator controls for proper operations shall not be considered a failure.
 - (b) Design defect: A characteristic of circuit design which precludes proper performance in a specified operational mode. This may be represented by a unit operating outside of tolerances specified by Gables and proper operation cannot be reestablished by either readjustment, replacement of defective part or correction of workmanship defect.
 - (c) Part or material defect: A condition of a part or material causing performance of the part or material to be outside of material tolerance specified by Gables. This may be represented by shorts, opens, high resistance leakage, improper manufacture, incorrect material, etc.

- (d) Workmanship defect: A condition of circuit or assembly resulting in out-of-tolerance operation, caused by human error during the manufacturing process. These may be represented by cold-solder joints, loose fastenings or any other non-conformance with Gables quality standards manual.

4.2 Non-Valid Failures

4.2.1 A failure is categorized as non-valid when the unit fails to perform its intended function and such failure is caused by one or more of the following:

- (a) Operator or maintenance personnel maladjustments, or incorrect operation of aircraft system, Gables LRU or module.
- (b) Installation errors.
- (c) Failures of test equipment including such items as improper calibration or incorrect test setup, or incorrect Buyer generated test documents or procedures.
- (d) Intentional or unintentional exposure of the LRU module, subassembly, part or material to electrical, mechanical and/or environmental stresses beyond specified limits.
- (e) Failures due to tampering, misuse, abuse, neglect or physical damage from any source.

5.0 Effectivity

The effectivity of this agreement will commence with the date of this document and will apply to units sold after the effective date of this document.

Gables will be responsible for any repair work accomplished on equipment while still under warranty prior to this date, per terms of previous warranty policy.

Gables reserves the right to retroactively apply new warranty provisions without notice.

6.0 Third Party Repair Rights

Approval of new Third Party Repair Facilities or the granting of Third Party Repair Rights to a Buyer must be requested in writing from the Buyer to Gables and the Buyer or his agents must meet all Gables Authorized Repair Facility standards (available upon request) to be granted Third Party Rights.



Gables Authorized Warranty Repair Facilities

Gables Engineering, Inc.
247 Greco Avenue
Coral Gables, Florida 33146
www.gableseng.com

Telephone: +1 305-774-4242
AOG Fax: +1 305-447-9242
Contact: Elisa Martinez
E-mail: emartinez@gableseng.com

Pacific Aero Tech, LLC.
23413 66th Avenue South
Kent, Washington 98032

Telephone: +1 253-395-9535 ext. 107
Fax: +1 253-395-9541
Contact: Dave Pickering
E-mail: dave@pacificaerotech.com

Fokker Services B.V.
Fokkerweg 300, Building 6,
1438 AN Oude Meer,
The Netherlands

Telephone: +31-2060-52360
Fax: +31-2060-52020
Contact: Frank Wehnes
E-mail: frank.wehnes@fokker.com
AOG 24/7: +31-(0)88-62800660

Fokker Services Asia Pte. Ltd
1800 West Camp Road
Seletar Aerospace Park
Singapore 797521

Telephone: +65-6481-1080
Fax: +65-6482-5059
Contact: Shelley Han
E-mail: shelley.han@fokker.com

Topcast Aviation Supplies Co, Ltd
26/F Metropole Square
2 On Yiu Street
Sha Tin, Hong Kong
(CAAC capability)

Telephone: +852-2305-4111
Fax: +852-2305-4388
Contact: Benson Wong
E-mail: benson.wong@topcast.com

Rockwell Collins France
6, avenue Didier Daurat – BP N°020008
31 701 Blagnac Cedex
France
(CAAC capability)

Telephone: +33-5-34-61-85-93
Fax: +33-5-61-71-77-88
Contact: Corinne Guibert
E-mail: cguibert@rockwellcollins.com

Muirhead Avionics
3 Square One Heathrow
Southall Lane, Southall Middlesex
UB2 5NH, England

Telephone: +44-208-571-3422
Fax: +44-208-571-2336
Contact: Gary Maddick
E-mail: gary.maddick@ametec.co.uk
Contact: Robert Flemming
E-mail: robert.flemming@ametec.co.uk
AOG 24/7: +44-208-843-6927
+44-208-571-3422