

# DE-ICER WARRANTY

## Warranty

### a) Warranty

#### PNEUMATIC DE-ICERS

Business \* and General Aviation Aircraft: 5 years or 3,000 flight hours from date of installation, whichever occurs first.

Regional Aircraft \*\*: 3 years or 4,000 flight hours from date of installation, whichever occurs first.

Engine Inlet: 2 years or 3,000 flight hours from date of installation, whichever occurs first.

#### ELECTROTHERMAL ANTI-ICERS / DE-ICERS (INCLUDING PROPELLER DE-ICERS)

Eighteen (18) months or 2000 flight hours from date of sale to aircraft user, whichever occurs first.

#### POTABLE WATER/SPECIALTY HEATED PRODUCTS

Eighteen (18) months or 2000 flight hours from date of sale to aircraft user, whichever occurs first.

#### ICE PROTECTION SYSTEMS COMPONENTS

Twelve (12) months or 1000 flight hours from date of sale to aircraft user, whichever occurs first. Goodrich guarantees that its

Estane® Engine Inlet De-Icers will be free from defects in materials or workmanship for a period of twenty-four (24) months or three-thousand (3,000) flight hours from date of installation, whichever occurs first (Reference Appendix C for details and definitions)

b) Warranty claim considerations and conditions are as listed in Goodrich Service Newsletter SNL-05-064\*\*\*.

c) Where possible, and to expedite the process, Goodrich will only require photos and descriptions of warranty claims (Section 2.D in Goodrich Service Newsletter SNL-05-064).

d) If a potential issue is identified, Goodrich may ask for removed boot remnants to be returned for further internal evaluation.

e) Any de-icer replaced under warranty will receive a warranty of 3 years or 4,000 flight hours only.

f) Goodrich would like de-icer reliability information reported on a regular basis (Timing and method TBD between Airline and Goodrich).

### ***Warranty does not include the following:***

- Erosion due to Foreign Object Debris (FOD) such as, but not limited to rocks and ice crystals.
- Tears, rips, splits due to Foreign Object Debris (FOD) damage, cold-cracking, impact damage, excess waxes or coatings.
- Pinholes, which usually occur due to improper or worn (non-maintained) conductive edge sealer.
- Lightning strike
- Cold-cracking, which occurs when de-icers are cold-soaked below their designed operating parameters (-40°F/-40°C) and inflated while brittle.

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- Cold impact damage, which occasionally occurs when de-icers are cold-soaked below their designed operating parameter (-40°F/-40°C) and encounter environmental foreign objects such as ice crystals or hail in flight.
- Contamination deemed to be unauthorized coatings\*\*\*\* or repair material.

This warranty is for the exclusive benefit of the user of products and cannot be assigned to parties purchasing an aircraft in which the product is installed in other than new condition or to other parties. No claim shall be recognized hereunder unless the claim is submitted per Goodrich De-icing and Specialty Systems (GDSS) Returned Goods procedure.

This warranty does not extend to products subjected to abuse, misuse or accident. Labor charges incurred in removal and installation of products repaired or replaced hereunder are not covered.

GDSS assumes no liability, contractual or otherwise, for Federal Aviation Administration sanctions, product malfunctions, property damage, personal injuries, or similar incidents occurring after substitutions of parts not manufactured by GDSS or alteration of GDSS manufactured parts not authorized by GDSS manuals or other written procedures issued by GDSS and specifically disclaims the implied warranties of merchantability and fitness for intended purpose.

All first quality merchandise manufactured by GDSS is warranted to be free from defect in material and workmanship. GDSS liability with respect thereto is limited to the net purchase price after cash and other discounts of any such merchandise proved defective or, at GDSS option, to the repair or replacement of such merchandise upon its return, transportation charges prepaid, and in either case, after a pro-rata charge for any service rendered. No claim will be allowed on any item of merchandise purchased for further processing unless GDSS is notified of that processing within (30) days after receipt of the item and are permitted to examine it before further use or processing. Except as expressly stated above, GDSS makes no warranty, express or implied, other than title. In no event is GDSS liable for any incidental, consequential, or special damages.

\* Business aviation is defined as 14 CFR Part 121 or Part 135 operations and less than 19 seats or less than 19,000 lbs MTOW.

\*\* Regional aircraft is defined as 19 seats or greater or in excess of 19,000 lbs MTOW.

\*\*\* Warranties put forth in this proposal supersede any warranty implied in Goodrich Service Newsletter SNL-05-064. Warrantable conditions and exclusions in SNL-05-064 still apply.

\*\*\*\* Includes de-icer conditioning materials not produced or specified by Goodrich including floor wax, automobile wax, furniture wax, etc.