Caution and Warning Panel Documentation of Light Bulb Filaments

Panel Annunciations --



Caution Advisory Panel - Left Side



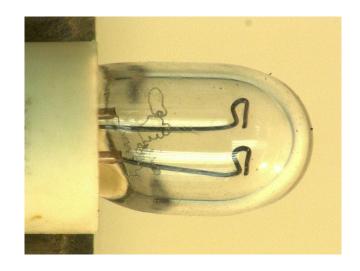
Caution Advisory Panel - Right Side

Photographs depict the accident panel backlit to document all caution/warning annunciations.

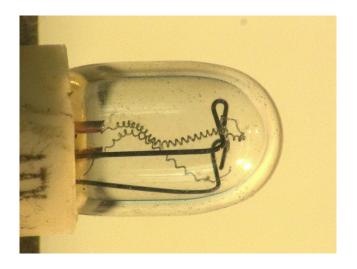
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Cyclic Centering --

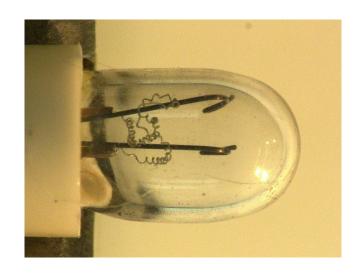
Bulb 1 – Left positionFilament stretched / intact



Bulb 2 – Center positionFilament stretched / broken



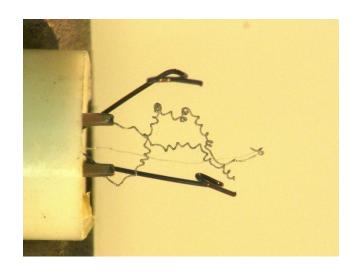
Bulb 3 – Right positionFilament stretched / intact



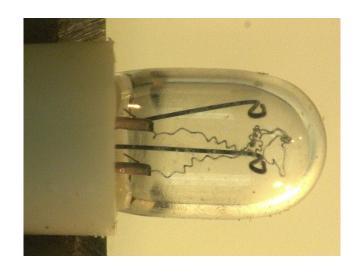
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Engine Anti-Ice --

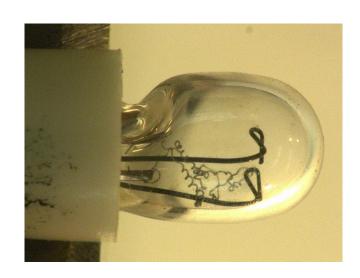
Bulb 1 – Left position
Glass envelope broken
Filament stretched / broken
(Strand from base/insulator fused to filament strand.)



Bulb 2 – Center positionFilament stretched / intact



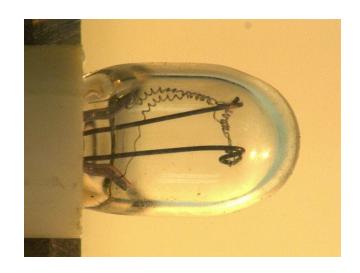
Bulb 3 – Right positionFilament stretched / broken



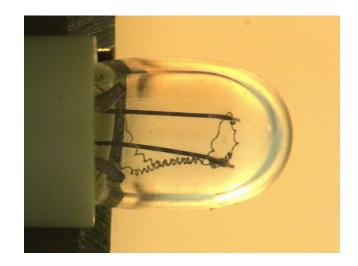
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Engine Overspeed --

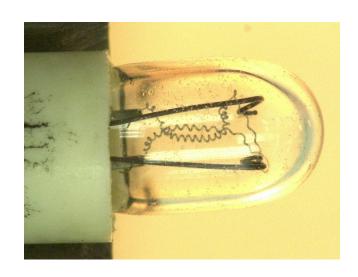
Bulb 1 – Left positionFilament stretched / intact



Bulb 2 – Center positionFilament stretched / intact



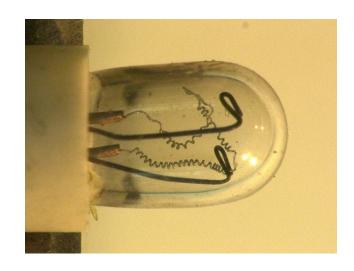
Bulb 3 – Right positionFilament stretched / intact



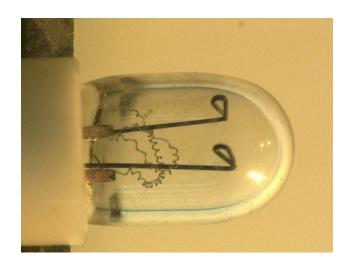
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Hydraulic System --

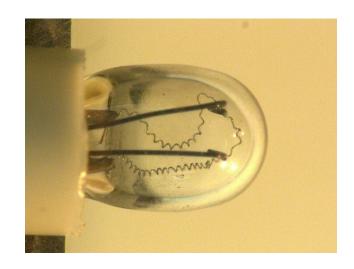
Bulb 1 – Left positionFilament stretched / intact



Bulb 2 – Center positionFilament stretched / intact



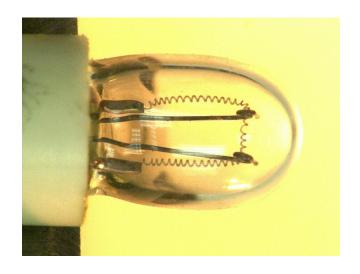
Bulb 3 – Right positionFilament stretched / intact



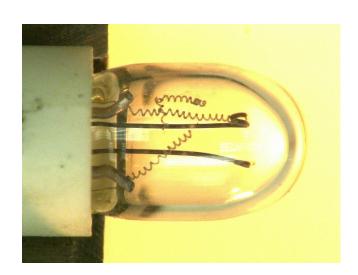
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Exemplar Bulb Filaments --

Float Test
Bulb 2 – Center position
Example of a bulb filament that is
Intact with minimal stretching
between the supports.



R/Fuel Boost
Bulb 3 – Right position
Example of a bulb filament that is broken, but otherwise exhibits minimal stretching.



The remainder of panel bulbs exhibited no stretching or only minimal stretching of the filament.

Those bulbs were not photo documented.

Photos taken by NTSB Materials Lab, with documentation compiled by the NTSB Investigator-in-Charge.