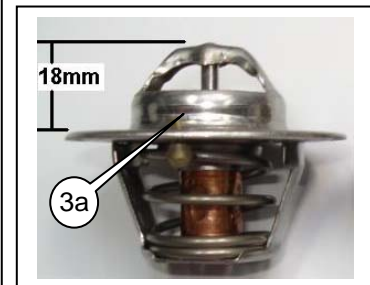
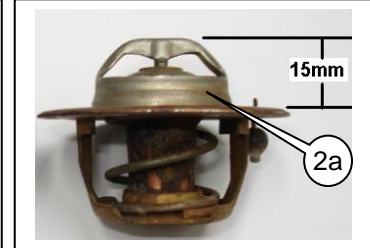


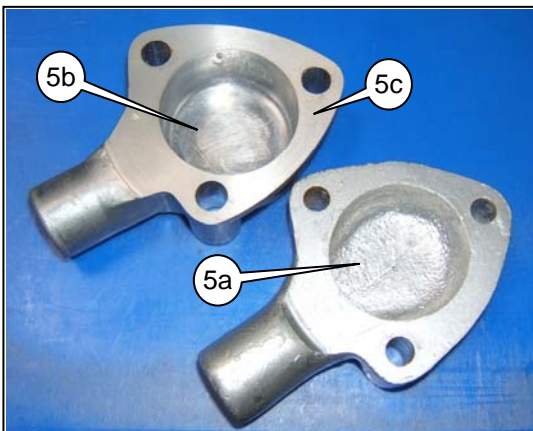
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

Supplemental Information for 460-890 or AEA306 Thermostat Housing 948 Sprite



25 The original AEA306 (flat-top) thermostat housing (1a) is almost unique because of its very low profile. With
26 limited space, the thermostats could not be more than 15mm high (2a) or they would hit the underside of the
27 thermostat housing. In 2008, the range of thermostats that fit was discontinued, and efforts to have them
28 remade proved impractical due to the cost. The thermostats available now have a height of about 18mm (3a).
29 We decided to redesign the original flat top thermostat housing with a little bit more room to preserve the
30 unique look of the original flat top design while allowing you to use a conventional thermostat.

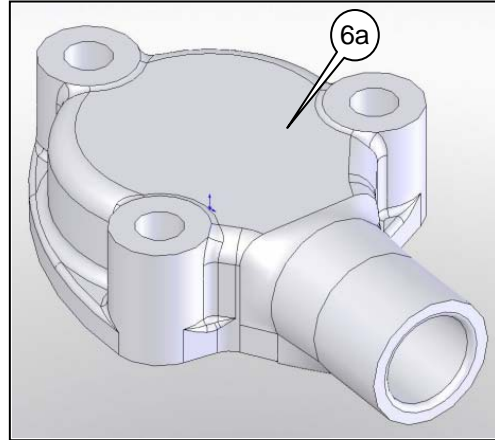
31
32 Compared to what was available (4a),
33 the new thermostat housing (4b) is a
34 huge improvement. The dimensions
35 are correct and the quality of the
36 casting is, in our opinion, better than
37 the original factory housings.



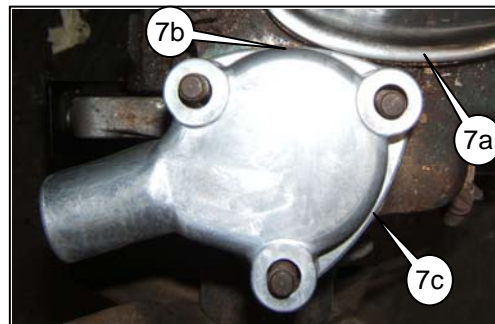
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53

Turning the housings over reveals more differences. The underside of the previous housing was left "as cast" (5a) while the new housing is actually machined (5b). The gasket seating surface (5c) of the new housing is also machined to a higher standard.

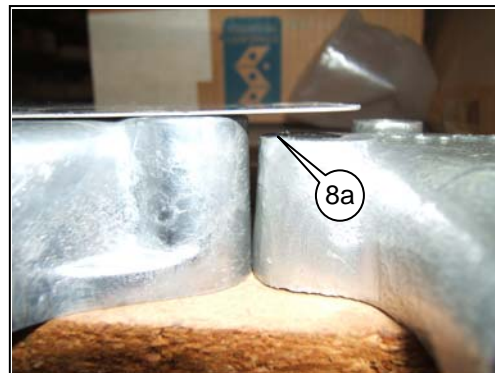
54 We started from scratch, and all of the development work
55 was done in Solidworks (6a), an engineering software
56 package that allowed us to easily fine tune the design as
57 we made changes. It also made it possible to have
58 prototypes made in plastic so that we could test fit samples
59 on cylinder heads before we committed to a final design.
60



61 This project involved more than just making an existing part
62 taller. We took into account issues that had come up long
63 after the cars were out of production. One consideration
64 was the fact that many aluminum valve covers for the Sprite
65 have a flange that comes very close to the housing (7a).
66 The housing we designed is asymmetrical and the section
67 closest to the valve cover (7b) is thinner than the rest of the
68 base (7c), without compromising the width of the sealing
69 surface. Although we have given you as much room as
70 possible, there may be an alloy valve cover out there that
71 makes contact with the housing, requiring further
72 modification to achieve a proper fit.
73



74 And of course while providing clearance for alloy valve
75 covers and making it tall enough to fit over modern
76 thermostats, it could not be so tall that new studs were
77 required. It was also important to minimize the overall
78 height because we are trying to preserve the appearance of
79 the original "flat-top" thermostat housing. The new housing
80 is very close to the original height (8a).
81



82 When we were satisfied with the design, the full set
83 engineering drawings, specifications and solid models were
84 sent to the manufacturer. They created the tooling and
85 made several pre-production samples which we test fit with
86 various valve covers, gaskets and thermostats before
87 production was approved.
88

89 This entire project represents a commitment of time, money
90 and resources to a very limited market. We believe that this
91 type of project is exactly the kind of thing Moss should do,
92 because there are not many others that would consider it
93 worthwhile.
94
95
96
97
98

99 *Although every effort has been made to ensure the accuracy and clarity of this information, Any suggestions
100 that you may have that will improve the information (especially detailed installation notes) are welcome.
101 Please use the simple email form on the "Contact Us" page on the Moss website:*

102 <http://www.mossmotors.com/AboutMoss/ContactUs.aspx>

103 *If you prefer, you may call our Technical Services Department at 805-681-3411. So many people call us for
104 help that we are often not able to answer the calls as fast as we'd like, and you may be asked to leave a
105 message. We apologize in advance for the inconvenience. We will get back to you within 2 business days.*



Moss Motors, Ltd.

440 Rutherford Street, Goleta, California 93117

In the US & Canada Toll Free (800) 667-7872 FAX (805) 692-2510 (805) 681-3400

Moss Europe Ltd.

Hampton Farm Industrial Estate, Hampton Road West, Hanworth Middlesex, TW13 6DB

In the UK: 020-8867-2020 FAX:- 020-8867-2030