



## 021-647 Supplemental Heatshields, MGA (LHD)

### **Tools required:**

Assistant to help line up bolts with panel holes, Box-cutter (Razor blade with handle), Philips stubby and #2 screwdrivers, 1/4in drill bit, drill, superglue or scotch tape, 7/16 combination wrench, 1/2in deep socket, universal joint, extensions and a ratchet.

### **Floorboard Heatshield Installation Instructions:**

1. Raise the vehicle on jackstands. Do not work under the vehicle while when it is supported only on a jack.

2. Remove the driver's side carpeting in the area forward of the front seat and on the toeboard. Or, if you would prefer to leave the carpet in place during installation, push it back and well clear of the floorboard area where drilling will take place so that no holes are drilled into it.

3. If there is a factory rectangular heat shield in place between the wood floor and the exhaust pipe, remove it. It will be replaced by the new heat shield.

4. Find the floorboard heatshield, which is the larger of the two. Use the box-cutter to cut through the insulation material at the two hole locations in the metal of the floorboard heatshield panel. Make sure the provided bolts can pass through the heatshield at those two locations.

5. (OPTIONAL) The factory MGA heatshield is directly mounted to the floor with no spacing. Optionally, this aftermarket floorboard heatshield can be spaced away from the wood of the floorboard for extra heat rejection. However, supergluing (or scotch taping) the provided washers to the heatshield temporarily during installation makes installation tougher, so this step is optional. If you chose to tape the washers in place, be sure the tape is not covering the holes or notched area of the heatshield.

6. Slide the heatshield into place between the exhaust pipe and the floorboard with the foil of the heatshielding material facing downward towards the exhaust pipe. You may need to loosen the exhaust downpipe from the exhaust manifold in order to lower it enough for the heatshield to fit. Center it in place and have an assistant hold the heatshield steady. Use the drill and 1/4in drill bit to drill through the two hole locations in the floorboard heatshield panel and through the floorboard.



49 **7.** Gather two each of the provided flathead Phillips bolts, cupped floorboard washers, flat washers,  
50 lockwashers and nuts. Put each flathead bolt into a cupped washer and insert them from inside the car into the  
51 holes drilled in the floorboard. Then use the Phillips screwdriver to push down on each bolt while your  
52 assistant lines up the holes in the floorboard heatshield with the bolts. Have your assistant them then slide on  
53 a washer and lockwasher and thread on a nut for each bolt. If you have difficulty lining up the bolts with the  
54 holes, the holes in the floorboard can be enlarged. NOTE: We have provided extra attachment hardware in  
55 case you lose or drop them into a recess or inaccessible place in or under the MGA.  
56 **8.** Go back under the car and use the drill and 1/4in drill bit to drill through the floorboard at the notch in the  
57 side of the heatshield. This will serve as the location for the third mounting bolt. Gather another provided  
58 flathead bolt, cupped floorboard washer, flat washer, lockwasher and nut. Put the flathead bolt into a cupped  
59 washer and insert it from inside the car into the third hole drilled in the floorboard. Then use the Phillips  
60 screwdriver to push down on the bolt while your assistant slides on a washer and lockwasher and threads on a  
61 nut.  
62 **9.** Use the Phillips head screwdriver to hold each of the three flathead bolts from turning while your assistant  
63 tightens the nuts from below using a 7/16 combination wrench. Note that the bolts are sandwiching wood, so  
64 snug well but do not overtighten or you may crush or crack the wood of the floorboard.

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66 **Toeboard Heatshield Installation Instructions:**

67 **10.** NOTE: The heatshield itself will be used **inside the**  
68 **car as a template** for drilling the holes through the  
69 toeboard. It will then be mounted **outside the cabin as**  
70 **a heatshield.** Also note that the heatshield in the  
71 pictures does not have heatshield material on it. The  
72 heatshield will have its foil heatshielding material  
73 pointing towards the exhaust pipe in its final mounting  
74 orientation.

75 **11.** The vehicle should again be raised on jackstands  
76 with the driver's side carpeting in the area forward of the  
77 front seat and on the toeboard

78 **12.** Remove the driver's side carpeting in the area  
79 forward of the front seat and on the toeboard. Or, if you  
80 would prefer to leave the carpet in place during  
81 installation, push it back and well clear of the toeboard  
82 area so that no holes are drilled into it.

83 **13.** Find the toeboard heatshield, which is the smaller of  
84 the two. Use the box-cutter to cut through the insulation  
85 material at the three hole locations in the metal of the  
86 floorboard heatshield panel. Make sure the provided  
87 bolts can pass through the heatshield at those three  
88 locations.

89 **14.** Bring the toeboard heatshield, 1/4 inch drill and drill  
90 bit into the car. Again, this template step is to determine  
91 hole locations for drilling, not for permanent mounting.  
92 **WHILE INSIDE THE CAR,** place the heatshield against  
93 the toeboard, with the foil heatshielding material against  
94 the wood of the floor (see picture with tape measure).  
95 Place the heatsheild with the bottom edge 1.75 inches  
96 up from the floor and the right edge 1.50 inches from  
97 where the metal of the toeboard frame surround starts.

98 **15.** Remeasure the placement of the heatsheild. Then use the drill and 1/4 inch drill bit to drill through the  
99 these hole locations in the heatshield panel and through the floorboard. Note that the brake pedal will make  
100 drilling the top hole difficult depending on the size of your drill. However, there is a metal frame around the  
101 edge of the wood toeboard pieces, so it must be placed to minimize any overlapping between the edges of the  
102 heatshield and the metal frame. Be sure to drill perpendicular to the toeboard to make lining up the bolts  
103 easier.  
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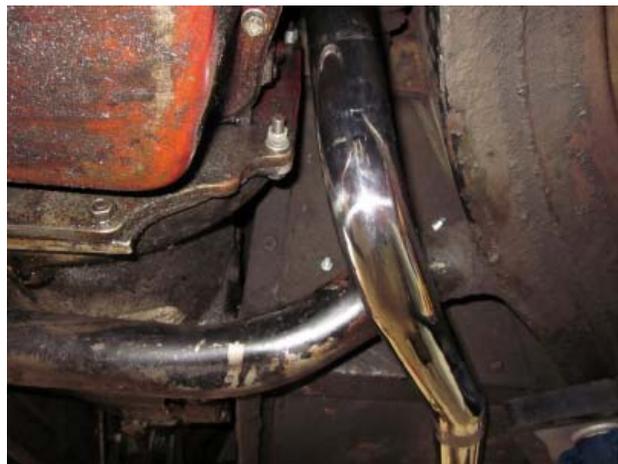
**16.** Remove the toeboard heatshield from the toeboard and take it outside of the car.

**17. (OPTIONAL)** This aftermarket toeboard heatshield can be spaced away from the wood of the floorboard for extra heat rejection. We have provided extra washers if you would like to do so. However, supergluing (or scotch taping) the provided washers to the heatshield before installation makes installation tougher, because if the holes drilled through the toeboard are not perfectly perpendicular and straight, the tips of the bolts will point away slightly from the hole locations, making it hard to line up. Thus, this step is optional. If you run into trouble, you can enlarge the holes in the toeboard slightly.

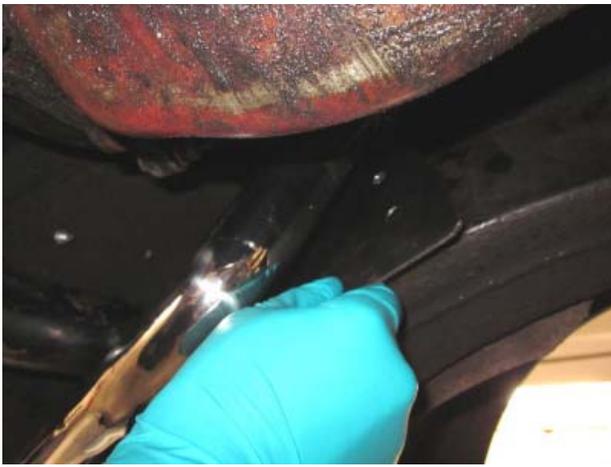
**18.** Place the toeboard heatshield and three provided washers and nuts below the car. **NOTE:** We have provided extra attachment hardware in case you lose or drop them into a recess or inaccessible place in or under the MGA.

**19.** Gather three each of the provided flathead Phillips bolts, cupped floorboard washers, flat washers and nuts. Put each flathead bolt into a cupped washer and lay them on the floor. Have your assistant insert them from inside the car into the three holes drilled in the toeboard. Have them then get ready with the Phillips screwdriver.

**20.** The toeboard heatshield requires finessing into place. Hold the heatshield with the foil heatshielding material facing you and the square angle (90-degree) cutout facing the round framerail (see photos). Slide the heatshield between the framerail and the metal inner fender liner. Rotate the heatshield counterclockwise as you move it left. Take note of where the bolts are and begin to line up the holes in the heatshield with the tips of the bolts. Before pressing the heatshield over the bolts, have your assistant press against the bolts with the Phillips headed screwdriver. (Pictures continue on next page)



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**21.** Line up the holes in the heatshield with the tips of the bolts and push the heatshield into place. Then slide on a washer and thread on a nut for each bolt. Have your assistant use the Phillips head screwdriver from turning while you tightens each nut from below using a 7/16 combination wrench. Note that the bolts are sandwiching wood, so snug well but do not overtighten or you may crush or crack the wood of the floorboard.



**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

Instruction Sheet 021-647\_053-432 July 2013