

Shock Tower Brace

Installation Instructions

2016+ Mazda Miata

PART # 910-890

If your MX5 did not come with a shock tower brace from the factory, a cowl reinforcement plate, part number 910-891, must be installed to fit this strut bar. Directions to install the cowl reinforcement plate can be found at the end of these instructions.

Parts may vary slightly from figures.

Tools required:

- Ratchet
- Torque wrench
- Sockets: 10mm, 10mm deep, 14mm
- Universal joint
- 10" Extension
- 10mm wrench
- Needle nose pliers
- Slip joint pliers
- Rags

Removal of the Factory Shock Brace

- 1) Disconnect the battery.
- 2) Remove the front section of the sound tube attached to the intake at the front of the engine bay. Remove the two outside hose clamps, and the 10mm bolt securing the center of the tube. Figure 2.



Figure 2

- 3) Move the sound tube chamber out of the way by removing the 10mm bolt securing it to the outside edge of the engine compartment, and then lifting straight up to separate it from the shock tower plate. Figure 3.



Figure 3

- 4) Remove the factory shock brace. Unfasten the six nuts securing the brace to the shock tower plates and firewall. Pull out the rear section of the brace before the two side sections. Figure 4.

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Figure 4

- 5) Move the EVP control unit fastened to the passenger side shock tower plate. Use needle nose pliers to release the backs of the clips holding the wiring from the control unit. Unfasten the two 10mm bolts holding the control unit bracket to the shock tower, and move it out of the way. The large connector on top of the control unit does not need to be disconnected. Figure 5.



Figure 5



- 6) Remove the passenger side shock tower plate by unfastening the three 14mm nuts, and lifting it off of the studs. Figure 6.



Figure 6

- 7) Move the ecu attached to the driver's side shock tower plate. There are three 10mm bolts in total. Two bolts are located on top connecting the ecu bracket to the shock tower plate, and the third is located at the bottom of the ecu. The bottom bolt needs a 10 inch extension and universal joint to unfasten. Gently move the ecu off the studs of the shock tower plate and place a rag between the ecu bracket and the shock tower to protect the paint. Do not disconnect the ecu from the wiring harness. Figure 7.

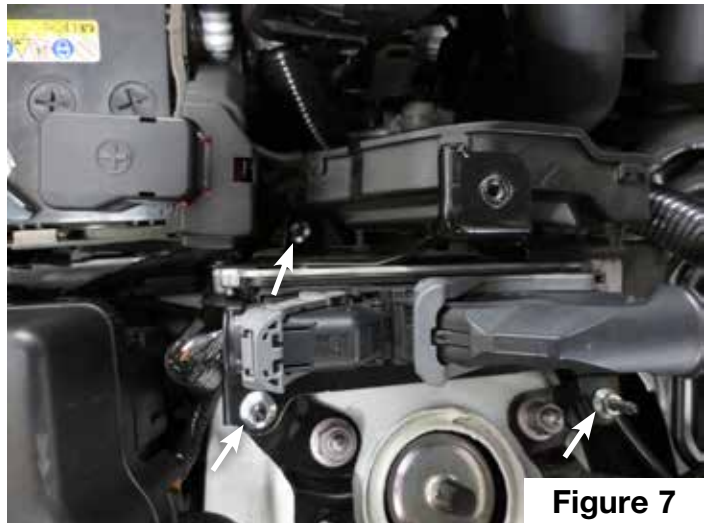


Figure 7

- 8) Remove the driver's side shock tower plate by removing the three 14mm nuts.
- 9) Clean the shock tower surfaces where the new brace will be mounted. Any debris left over may damage the paint.
- 10) Place the new shock tower brace onto the same eight mounting studs as the factory shock tower brace. Figure 10.



Figure 10



Figure 14

- 11) Using the nuts that were removed earlier, secure the new brace. Torque the six shock tower nuts to 37-43 ft-lbs, and the two firewall nuts to 12-19 ft-lbs.
- 12) Bolt the EVP control unit on the passenger side of the vehicle to the shock brace using the two included M6x35 bolts, washers, and nuts.
- 13) Remove the D shaped clip from its line and bushing located near the EVP control unit. Flip it upside down and reinstall it to fit the hole in the bracket attached to the control unit. The rubber bushing underneath will need to be moved up. When everything is in place, install the clip into the bracket. Figure 13.



Figure 13

- 15) Mount the sound tube chamber into place on the driver's side. Use the original bolt to secure the outside mount, and the included M6x40 bolt, 20mm washer, and nut to install the other side to the shock brace. Figure 15.



Figure 15

- 14) On the driver's side of the vehicle, mount the ecu back in its original location. Use the original bolt to secure the lower mount of the ecu, and the two M6x25 bolts, washers, and nuts to secure the top two mounting holes. Figure 14.

- 16) Make a connector using the small stainless steel pipe and rubber hose included in the kit. Push the pipe into the hose until approximately 3/4" of the pipe is sticking out, and use one of the included hose clamps to secure them together. Figure 15.
- 17) Mount the rubber side of the connector onto the sound tube chamber, and secure it with the second clamp from the kit.
- 18) Using the original bolt, install the long end of the included bracket where the center of the sound tube was originally mounted. Figure 18.

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Figure 18

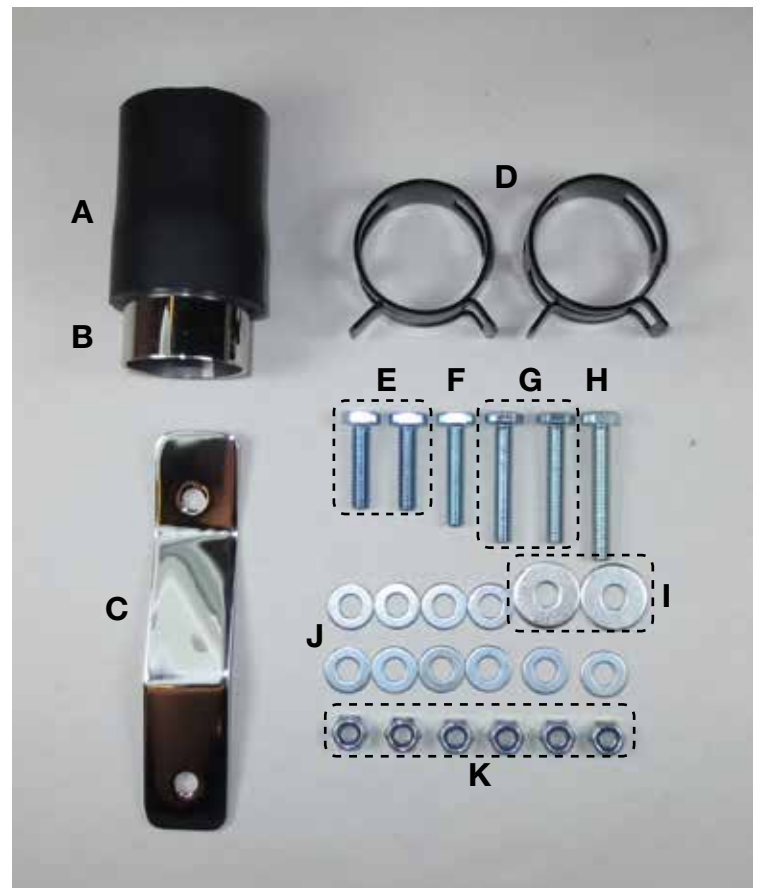


Figure 19

19) Rotate the portion of the sound tube that connects to the intake 180 degrees, so that the bottom is now facing up. Figure 19.

20) Mount the sound tube to the intake and connector attached to the sound tube chamber. Use the included M6x30 bolt, 14 & 20mm washers, and nut to install it to the bracket. Figure 19.

910-890 BOM		
	Description	Quantity
A	Sound tube hose	1
B	Sound tube pipe	1
C	Sound tube bracket	1
D	Sound tube clamps	2
E	M6 x 25mm	2
F	M6 x 30mm	1
G	M6 x 35mm	2
H	M6 x 40mm	1
I	20mm washer	2
J	14mm washer	10
K	Lock-nut	6
L	Shock tower bar (not pictured)	1



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Cowl Reinforcement Plate

Installation Instructions

2016+ Mazda Miata

PART # 910-891

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Parts may vary slightly from figures. The keen eye will notice the car used for instructions below had a factory shock tower brace. Your cars cowl plate will look slightly different, but the removal process is the same.

Tools required:

- Ratchet
- 8mm, 10mm, and 14mm Sockets
- Small Needle nose pliers
- Small flat nose screwdriver
- Pick
- Felt tipped pen

This is a factory Mazda part.

- 1) Disconnect the battery.
- 2) Remove the covers located at the bottom of each windshield wiper arm. Lift up on the bottom of the covers and pull down towards the wiper cowl. If the cover cannot be removed by hand, a small screwdriver can be used to gently pry up the bottom. Figure 2.



Figure 2

- 3) Unfasten the 14mm nut securing each wiper arm. Before removing the windshield wipers, use a felt tipped pen to mark the position where each wiper arm sits on the motor.
- 4) Remove both wiper arms and set them aside in a safe location. Take note of which wiper arm goes on which side.
- 5) Remove the entire length of weather stripping attached to the front cowl. The clips can be released by hand or by using a set of small needle nose pliers to compress the releases. Figure 5.

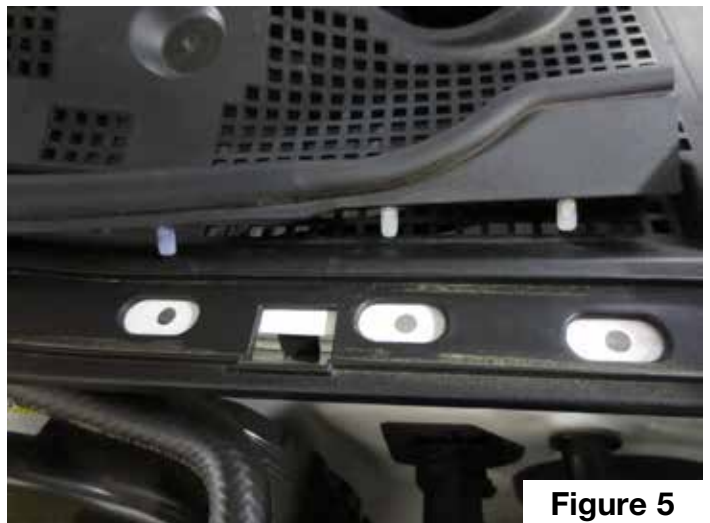


Figure 5

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- 6) Remove the two 10mm nuts securing the hard line bolted across the firewall. Pull the line and brackets off of the mounting studs so that it can move freely. Figure 6.



Figure 6



- 7) Locate the two covers found at the rear edges of the wiper cowl. Use a small screwdriver or pick to lift up the covers by prying up and toward the inside of the cover. Be gentle to avoid damage to the soft plastic of the cowl and screw covers. Figure 7.



Figure 7

- 8) Use an 8mm socket and ratchet to remove the screws found under each cover. Figure 8.



Figure 8



- 9) Disconnect the windshield washer hose at the two joints on top of the cowl. Figure 9.



- 10) Pull the bottom of the cowl towards the front of the vehicle until the clips holding it to the firewall are free.
- 11) Move the cowl side to side while continuing to pull it toward the front of the vehicle until it releases.
- 12) The cowl will now be free from the vehicle. Take hold of the driver's side cowl and lift up and to the outside to separate it from the passenger's side half.
- 13) Lift both sides of the cowl from the vehicle and put them somewhere safe to be reinstalled later.

- 14) The cowl plate will now be visible. Remove the eight 10mm bolts securing it to the vehicle. Four of the bolts will be on the very front of the firewall next to the studs for the hard line removed earlier, and the other four are located on top of the cowl plate. Figure 14.



- 15) Lift the original cowl plate out of the vehicle. The hard line can be pulled forward gently if it is in the way.
- 16) Install the new cowl reinforcement plate using the same eight bolts that held the firewall plate in place.
- 17) Installation of all removed parts is the reverse of removal.
- 18) Use the two included M8x1.25 flange nuts to secure the rear of the strut brace.

Although every effort has been made to ensure the accuracy and clarity of this information, any suggestions that you may have that will improve the information (especially detailed installation notes and photos) are welcome. These instructions were developed and written by Moss Technical Support. If you have any questions or difficulties with your installation of this product, telephone 800-667-7872 between 7:00 a.m. and 4:00 p.m., Pacific Time for assistance.

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