

# 6.4L POWERSTROKE UPPER SUPPORT BAR

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

**1 PC** | MISHIMOTO SUPPORT BAR

**2 PC** | MOUNTING BRACKETS

**2 PC** | RUBBER HOOD STOPS

**1 PC** | HARDWARE PACK

### TOOLS NEEDED

10MM SHALLOW SOCKET	13MM, 14MM SOCKET
10MM DEEP SOCKET	10MM, 14MM WRENCH
1/4", 3/8" DRIVE RATCHET	NEEDLENOSE PLIERS
1/4", 3/8" DRIVE EXTENSION	PANEL TOOL
1/4" DRIVE UNIVERSAL SWIVEL	

**INSTALLATION TIME 30 MINS**

**INSTALL DIFFICULTY**

### DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

### INSTALLATION INSTRUCTIONS

- 01.** Disconnect the two clips that secure the passenger-side hood release cable to the radiator support. (2x tree-clips)
- 02.** Separate the release cable from the hood latch by squeezing the tabs on the cable clip while pulling on the cable. Then disconnect the cable stop from the latch and swing the cable out of the way.

- 03.** Remove the two bolts that secure the intercooler to the radiator support. (2x 10mm bolts)



- 04.** Disconnect the two clips that secure the driver-side hood release cable to the radiator support. (2x tree-clips)

- 05.** Remove the two bolts that secure the hood latch to the radiator support and move the latch out of the way. (2x 10mm bolts)



- 06.** Remove the two bolts that secure the cooler to the radiator support and lower the cooler. (2x 10mm bolts)



- 07.** Remove the bolt that secures the horn assembly to the radiator support. Then lay the horn assembly over the intercooler. (1x 10mm bolt)

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## INSTALLATION GUIDE



- 08.** Remove the four bolts that secure the upper radiator mounting brackets to the radiator support and then remove the brackets. Use extreme caution when working around the positive battery terminals and cables. Contacting the bare cable or terminal with your tool while removing the bolts will cause a short to ground and a potentially dangerous situation. Disconnecting the negative terminal on both batteries will remove this possibility entirely. (4x 10mm bolts)



- 09.** Remove the six bolts that secure the radiator support to the vehicle. Note that the bolts along the top of the radiator support are a different thickness than the bolts along the front of the support. (6x 13mm bolts)



- 10.** Lift up on each corner of the radiator support to free it from the vehicle, and then remove the radiator support completely.
- 11.** Install the Mishimoto support brace. Make sure the upper radiator bushings are aligned with the brackets on the Mishimoto support, and then lower the brace into place.



- 12.** Locate the small bolts and brackets included with your kit. Install the brackets over the upper radiator bushings and secure them with the small bolts. (4x 10mm small bolts)
- 13.** Install the six bolts that secure the support brace to the vehicle. Tighten the upper bolts to 26 lb-ft. Tighten the front bolts to 46 lb-ft. (6x 13mm bolts)

- 14.** Locate two of the short 14mm bolts included with your kit. Lift the cooler up and secure it to the support brace using these bolts. (2x 14mm short bolts)
- 15.** Locate the long bolts and large washers included with your kit. Secure the intercooler to the support brace using this hardware. (2x 14mm long bolts, 2x large washers)
- 16.** Locate the remaining bolts and washers in your kit. Use this hardware to secure the hood latch to the support brace. Use the marks on the hood latch left by the original hardware as reference and tighten the bolts. This will need to be adjusted later. (2x 10mm bolts, 2x washers)
- 17.** Secure the driver-side hood release cable to the radiator support with the original clips. (2x tree-clips)
- 18.** Secure the passenger side hood release cable with the original clips. Then secure the cable end by pushing it in until it clicks and attach the cable stop to the latch. (2x tree-clips)
- 19.** Remove the rubber isolator bushing from the factory radiator support and transfer it to the Mishimoto support brace.



- 20.** Install the horn assembly and secure it with one of the short bolts included with your kit. (1x 14mm short bolt)
- 21.** Locate the bump stops and nuts included with your kit. Install the nuts over the bump stops and thread the bump stops into the support brace a little over halfway. Lock the bump stops with the nuts. (2x bump stops, 2x 10mm nuts)



- 22.** Gently close the hood and press it down to engage the latch. If the latch does not engage, the bump stops are too high or the latch is too low. If the latch engages, but the hood is too low, the bump stops need to be raised. Adjust the height of the latch and the bump stops until latches properly and the hood is flush with the fenders. This may take a few tries to get it just right.

**Congrats! You just finished installing  
the 6.4L Powerstroke Upper Support Bar.**

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# 6.4L POWERSTROKE UPPER SUPPORT BAR

INSTALLATION GUIDE

