

## PARTS INCLUDED

- 1PC** Mishimoto Intercooler
- 1PC** Mandrel-Bent Aluminum Cold-Side Pipe
- 1PC** Silicone Hot-Side Pipe
- 4PC** High-Torque Worm Gear Clamps
- 2PC** High-Torque T-Bolt Clamps
- 1PC** Mounting Hardware

## TOOLS NEEDED

- 5.5mm Socket
- 8mm Socket
- 10mm Socket
- 12mm Socket
- 10mm Wrench
- 5mm Allen Key
- 6mm Allen Key
- 1/4" Drive Ratchet & Extension
- Flathead Screwdriver
- Phillips Screwdriver
- Pop Clip Removal Tool
- Hose Clamp Compression Tool
- Scissors
- Pick Tool

**INSTALL TIME** 3.5 Hours

**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.

## INSTALL PROCEDURE

1. Remove the pop-clips that hold up the front splash panel. (10x pop-clips)
2. Remove the bolts and pop-clips securing both wheel well splash shields. (6x pop-clips, 2x 10mm bolts)
3. Disconnect the fog light harness inside each wheel well.



4. Remove the screws securing the lower edges of the front bumper. (6x Phillips head screws)
5. Remove the pop-clips that secure the upper front bumper. (15x pop-clips)



6. Use tape for protection near the edges of the bumper and the headlights.
7. Depress the tabs underneath the upper edge to release the bumper.

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# 2017+ HONDA CIVIC TYPE R PERFORMANCE INTERCOOLER KIT INSTALLATION GUIDE



8. Pull back the lower edges of the bumper to release them.
9. Press the latches below the headlights to free the bumper.



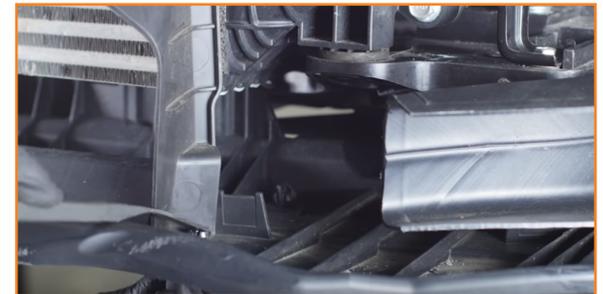
10. Lift the front bumper and separate it from the vehicle.
11. Remove the bolts and clips securing the splash shield. Then, separate the splash shield from underneath the vehicle.  
(2x 5mm Allen bolts, 12x pop-clips, 5x 10mm bolts)



12. Loosen the clamp on the hot-side coupler and turbo connection. Slide the hose off the port.



13. Press the back of the clips and pull them out to release the intercooler shrouding. (2x pop-clips)



14. Remove the bolts on the intercooler pipe and end tank connections. (4x 12mm bolts)



15. Separate the brackets that secure the end tanks. (2x 10mm bolts)

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16. Simultaneously push the side shrouding away from the intercooler and then pull it out from the front of the vehicle. You will need to lift the intercooler a little to disengage it from the grommets on the bottom before leaning it back and out.
17. Remove the bolts that secure the intercooler pipes. After doing this on the hot-side pipe, rotate it slightly as you pull it from the vehicle. (2x 10mm bolts)



18. Remove the engine cover. (5x 10mm bolts)
19. Pull the rubber stripping off the air duct. There are tabs holding it down. Press the tabs upward with your finger as you peel the stripping upward and off the air duct. Do this just enough so that the stripping is no longer over top the air duct, and then unclip the air duct from the front panel's edge.



20. Remove the clips that secure the front panel. (11x pop-clips)
21. Lift the front panel off the front of the engine bay.
22. Remove the bolts that secure the air duct. Then lift the air duct upward, disengaging the clips at the sides and those within the air duct. You'll feel the air duct release as you press each clip at the bottom out of the holes on the air duct. (2x 10mm bolts)



23. Remove the bolts that secure the intake airbox. (2x 10mm bolts)



24. Disconnect the MAF sensor from the intake. Then unclip the sensor's wiring harness from the airbox. Press the tabs on the harness where it connects to the airbox.



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25. Loosen the clamps on the rubber section of the intake tube and remove it. (2x worm gear clamp)



26. Separate the side of the airbox's bracket from the battery. Use a pair of pliers to pinch the bracket connection and lift it free. Then lift the airbox to remove it. There is a grommet at the bottom, so handling the airbox from the bottom should help get it free.



27. Loosen the clamp on the hot-side pipe to separate the hose. (1x worm gear clamp)  
28. Pull the portion of the hot-side pipe where it meets the intercooler out of the vehicle. Rotate the pipe to make its removal easier.  
29. Separate the small hose from the port on the cold-side pipe. (1x spring clamp)



30. Use a pick tool to push the electrical wiring harness away from the bracket that secures the cold-side pipe. (2x tree clip)



31. Remove the bolts on the cold-side bracket that secures the pipe. Then remove the bracket. The bracket will require some maneuvering and shifting of nearby wiring/harnesses to free it. (2x 10mm bolts, 2x 12mm bolts)



32. Disconnect the MAP sensor from the cold-side pipe. Depress the black tab at the middle and slide the connector off the sensor.  
33. Loosen the clamp on the cold-side pipe connection where it meets the coupler that goes to the turbo. Then wiggle the pipe to free it from the coupler and finally remove it. Be careful of the MAP sensor during the process. Refrain from causing any damage to the sensor. (1x worm gear clamp)  
34. Loosen the clamp on the coupler and turbo connection. Then remove the coupler. (1x worm gear clamp)

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35. Transfer the MAP sensor from the stock cold-side pipe to the Mishimoto cold-side pipe. (1x 10mm bolt)



36. Install the elbow-shaped coupler in your kit to the throttle body. (1x worm gear clamp)



37. Install the cold-side pipe to the open end of the coupler you attached to the throttle body. (1x worm gear clamp)
38. Reinstall the cold-side pipe bracket. Avoid banging the bracket against other components while you maneuver the bracket back into position. Snug the 12mm bolts first. Do not fully tighten them to allow the bracket to shift as you secure it with the other two bolts. Torque the 12mm bolts to 18 lbs-ft once the second bolts are tight. (2x 10mm bolts, 2x 12mm bolts)
39. Secure the cold-side pipe to the bracket. (2x 12mm bolts)



40. Install the last cold-side coupler to the pipe. Leave the clamp loose for now. (1x worm gear clamp)
41. Feed the hot-side silicone hose through the opening next to where the intercooler was and attach it up to the turbo. (1x worm gear clamp)



42. Mark the intercooler shrouding along the top, as shown in the image below. Using scissors, cut the shrouding along the mark.



43. Install the Mishimoto intercooler. Secure the cold-side end tank with the bracket you removed earlier. (1x 10mm bolt)

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44. Slide the cold- and hot-side pipes onto the intercooler end tanks. Secure the connections with the provided clamps. (2x worm gear clamps)
45. Transfer the grommet from the stock hot-side bracket onto the Mishimoto bracket.
46. Install the intercooler hot-side bracket using the original hardware. (1x 10mm bolt)
47. Secure the bottom of each end tank with the provided Allen bolts. These thread up through the bottom of the rubber grommets and up into the bottom of the intercooler end tanks. (2x 6mm Allen bolts)
48. Reconnect the MAP electrical harness.
49. Go back and tighten all clamps and hardware that was left loose from before.
50. Reinstall the small rubber hose to the cold-side pipe. (1x spring clamp)
51. Reconnect the electrical wire harnessing to the battery and cold-side pipe bracket. (2x tree-clips)
52. Reinstall the airbox. Engage the peg at the bottom of the airbox. (2x 10mm bolts)
53. Reinstall the accordion-style portion of the intake tube. (2x worm gear clamps)
54. Reinstall the air duct. Make sure to set the rubber pegs at the bottom and upper edges. Then secure the air duct with the original hardware. (2x 10mm bolts)
55. Reinstall the front panel. There is a peg on the air duct's edge that goes over the cover and latches on. Then replace the rubber stripping around the edge of the air duct. (11x pop-clips)
56. Reinstall the engine cover. (5x 10mm bolts)
57. Clip the MAF sensor wiring harness along the edge of the airbox. Then reconnect the MAF sensor connector.
58. Reinstall the splash shield. (2x 5mm Allen bolts, 12x pop-clips, 5x 10mm bolts)
59. Reinstall the front bumper.
60. Engage the lower edges with the tabs in the wheel well.
61. Secure the upper edge with the original pop-clips. (15x pop-clips)
62. Secure the bumper's lower edges with the original hardware. (6x Phillips head screws)
63. Reconnect the fog light harnesses.
64. Reinstall both wheel well splash shields. (6x pop-clips, 2x 10mm screws)
65. Reinstall the front splash panel. (10x pop-clips)

**Congratulations! You have finished installing the Mishimoto 2017+ Honda Civic Type R Performance Intercooler Kit.**