



INSTALLATION GUIDE

2016+ POLARIS RZR XP TURBO AND INTERCOOLER RELOCATION KIT
SKU: MMRAD-RZR-16E

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RESOURCES & CONTACT



CALL 1-877-GOMISHI

CUSTOMER SERVICE HOURS: MON-FRI 8:30AM-5:00PM EST



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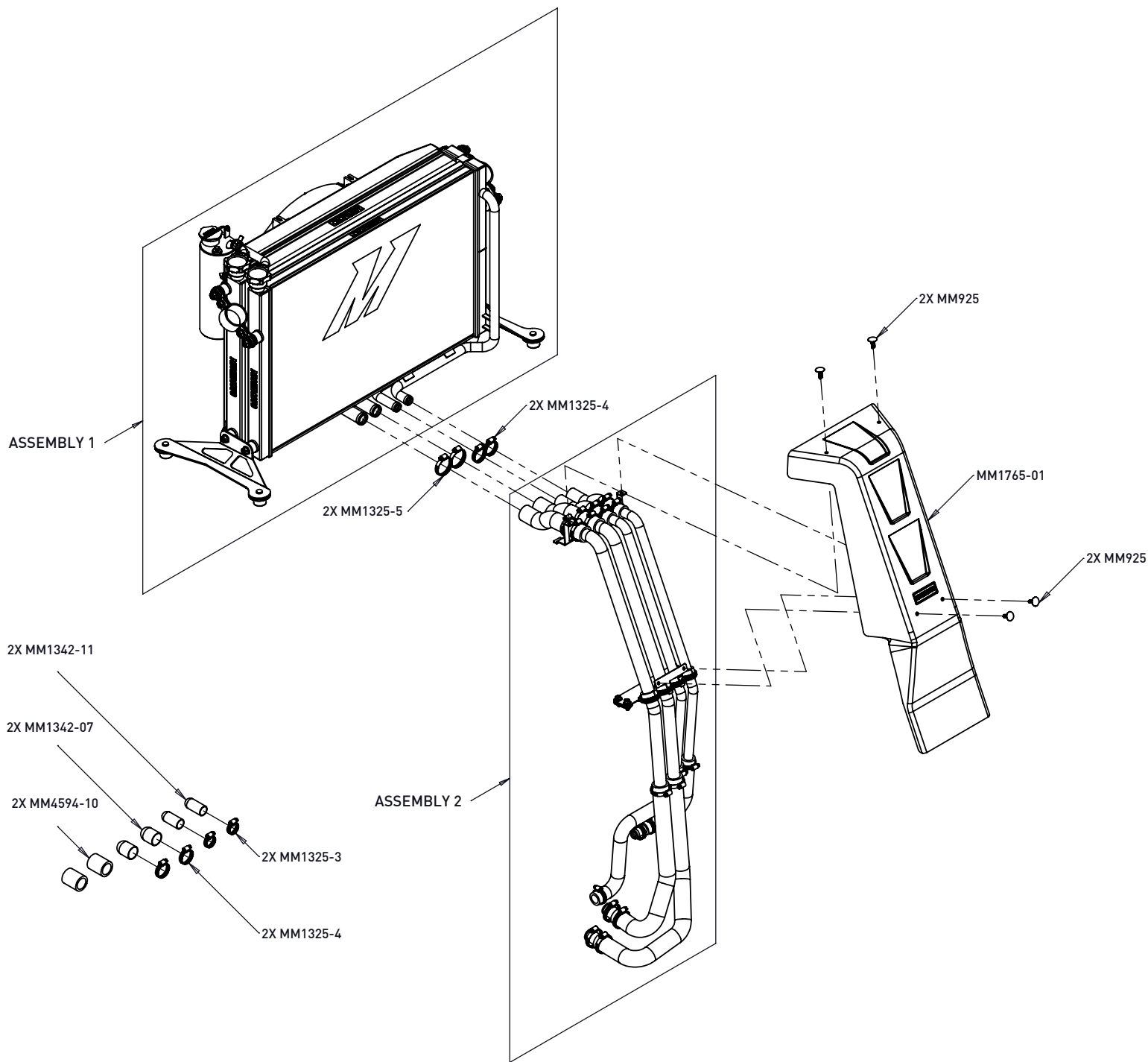
WEBSITE

WWW.MISHIMOTO.COM

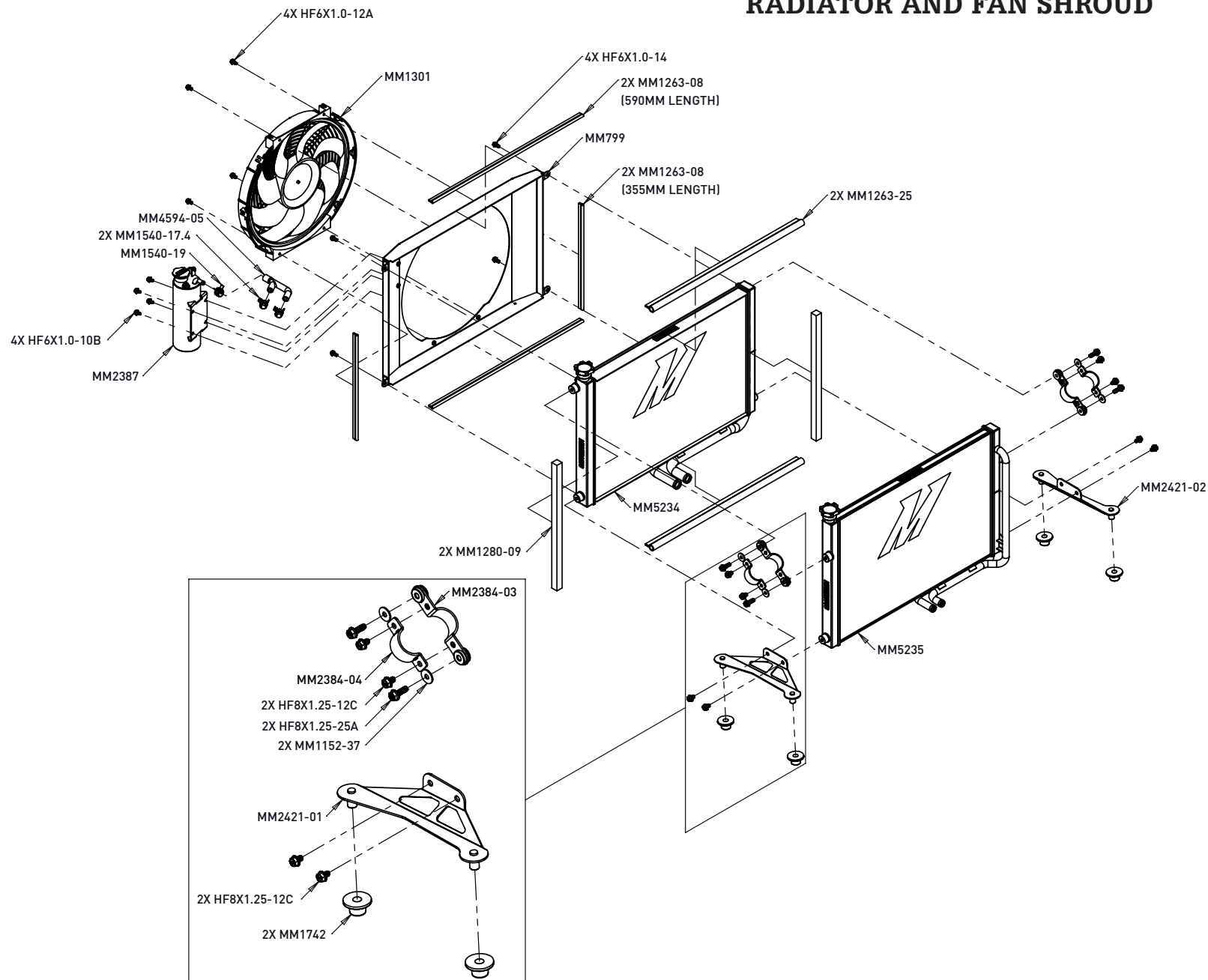


ENGINEERING BLOG

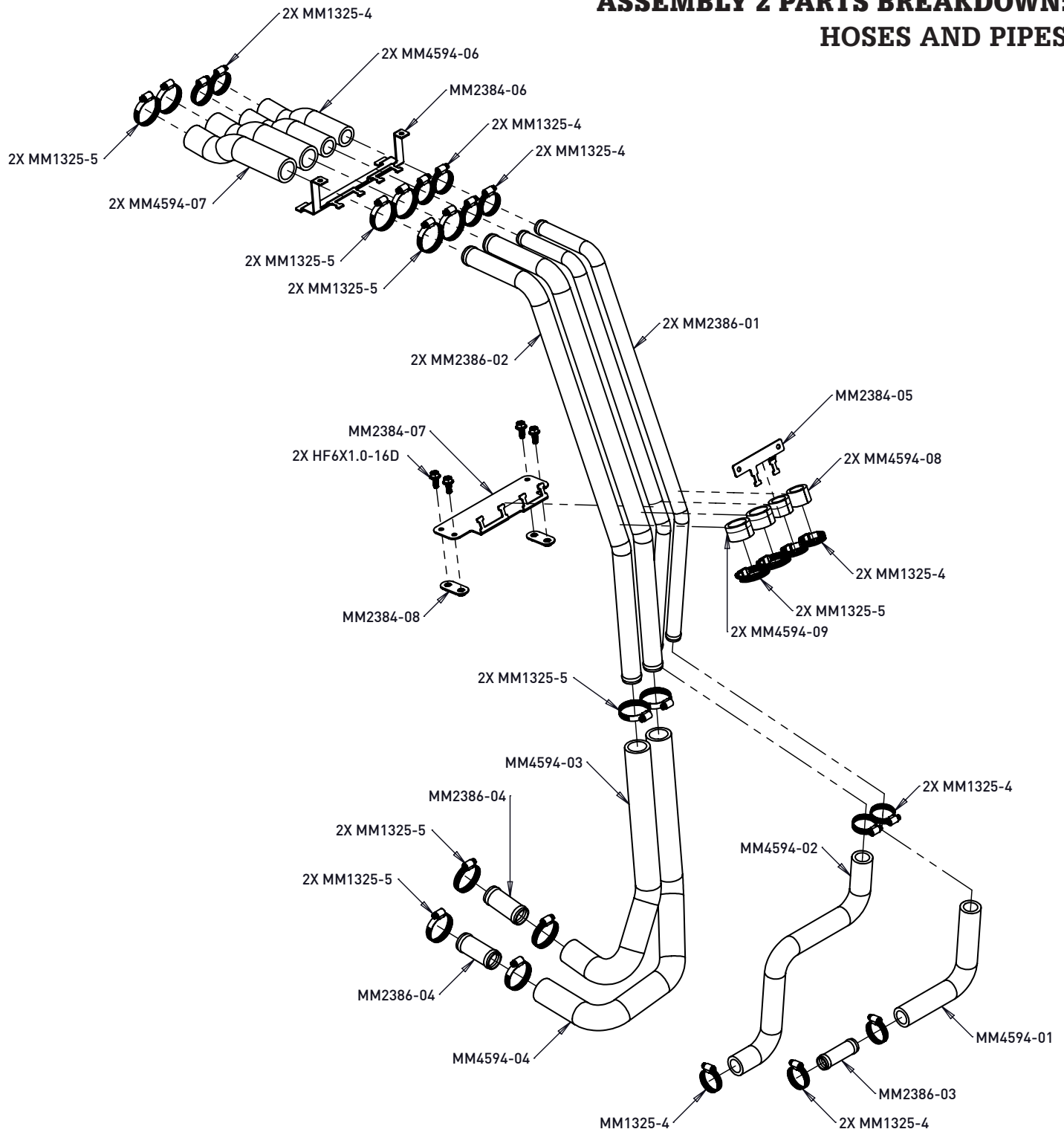
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ASSEMBLY 1 PARTS BREAKDOWN: RADIATOR AND FAN SHROUD



ASSEMBLY 2 PARTS BREAKDOWN: HOSES AND PIPES



**ASSEMBLY 1 PARTS BREAKDOWN
RADIATOR AND FAN SHROUD**

PART NUMBER	DESCRIPTION	QTY
ASSEMBLY 1	RADIATORS AND FAN SHROUD	1
ASSEMBLY 2	HOSES AND PIPES	1
MM4594-10	INSULATOR 3	2
MM1342-07	RUBBER CAP - 25MM ID	2
MM1342-11	RUBBER CAP - 19MM ID	2
MM1325-3	WORM GEAR CLAMP (16-25MM)	2
MM1325-4	WORM GEAR CLAMP (20-32MM)	4
MM1325-5	WORM GEAR CLAMP (25-40MM)	2
MM1765-01	CENTER CONSOLE COVER	1
MM925	TREE CLIP	4
MM1860	FAN WIRING HARNESS (NOT SHOWN)	1
MM5234	PRIMARY RADIATOR	1
MM5345	SECONDARY RADIATOR	1
MM799	FAN SHROUD	1
MM1301	16" HD FAN	1
MM2387	RESERVOIR	1
MM4594-05	HOSE 5	1
MM1540-17.4	SPRING CLAMP (14.4-17.4MM)	2
MM1540-19	SPRING CLAMP (16-19MM)	1
MM2421-01	BRACKET 1	1
MM2421-02	BRACKET 2	1
MM2384-03	BRACKET 3	2
MM2384-04	BRACKET 4	2
MM1742	BUSHING	4
MM1263-08	WEATHER STRIPPING - 355MM LENGTH	2
MM1263-08	WEATHER STRIPPING - 590MM LENGTH	2
MM1263-25	WEATHER STRIPPING - 590MM LENGTH	2
MM1280-09	FOAM - 425MM LENGTH	2
HF6X1.0-10B	M6 BOLT - 10MM LENGTH	4
HF6X1.0-12A	M6 BOLT - 12MM LENGTH	4

**ASSEMBLY 2 PARTS BREAKDOWN
HOSES AND PIPES**

PART NUMBER	DESCRIPTION	QTY
HF6X1.0-14	M6 BOLT - 14MM LENGTH	4
HF8X1.25-12C	M8 BOLT - 12MM LENGTH	8
HF8X1.25-25A	M8 BOLT - 25MM LENGTH	4
MM1152-37	WASHER	4
MM2386-01	PIPE 1	2
MM2386-02	PIPE 2	2
MM2386-03	PIPE 3	1
MM2386-04	PIPE 4	2
MM4594-01	HOSE 1	1
MM4594-02	HOSE 2	1
MM4594-03	HOSE 3	1
MM4594-04	HOSE 4	1
MM4594-06	HOSE 6	2
MM4594-07	HOSE 7	2
MM4594-08	INSULATOR 1	2
MM4594-09	INSULATOR 2	2
MM1325-4	WORM GEAR CLAMP (20-32MM)	11
MM1325-5	WORM GEAR CLAMP (25-40MM)	12
MM2384-05	BRACKET 5	1
MM2384-06	BRACKET 6	1
MM2384-07	BRACKET 7	1
MM2384-08	BRACKET 8	1
HF6X1.0-16D	M6 BOLT - 16MM LENGTH	4

IMPORTANT SAFETY INFORMATION

- Mishimoto recommends you use safety glasses and protective gloves during the install of their products
- 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
- If you need any assistance while installing our products, reach out to our Customer Service Team at 1-877-GOMISHI

TOOLS NEEDED

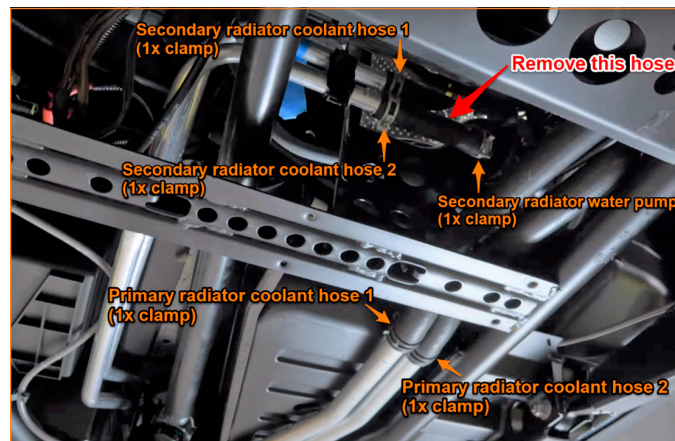
7MM SOCKET	5MM ALLEN WRENCH
8MM SOCKET	MASKING TAPE
10MM SOCKET	TEFLON TAPE
13MM SOCKET	DRILL
3/8" DEEP SOCKET	1/4" DRILL BIT
T40 TORX	5/32" DRILL BIT
1/4" RATCHET AND EXTENSION	HOSE CUTTING TOOL
10MM WRENCH	PLIERS
19MM WRENCH	DRAIN PAN
1/2" WRENCH	FUNNEL

INSTALLATION TIME: 4 HOURS

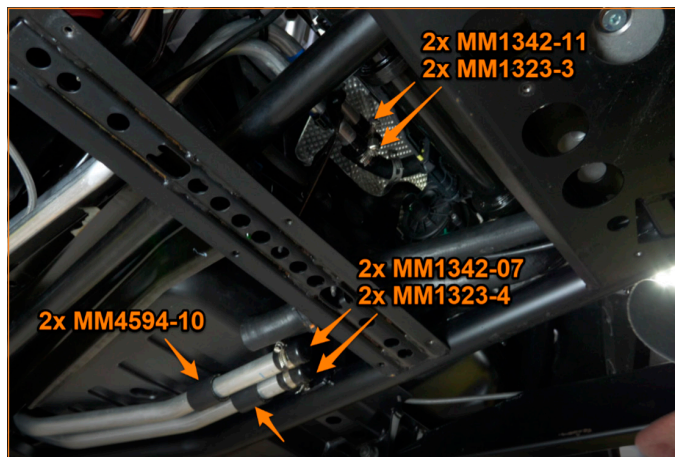
INSTALLATION DIFFICULTY:     

INSTALLATION INSTRUCTIONS

01. Remove the front and rear skid plates.



02. Remove the two primary radiator coolant hoses and two secondary radiator coolant hoses from the aluminum pipes under the rear of the vehicle. Have a drain pan ready and remove the hoses slowly as this is how the cooling systems must be drained. Once drained, remove the secondary radiator coolant hose from the water pump. (5x spring clamps, 1x hose)



03. Slide the MM4594-10 grommets over the primary radiator coolant pipes until they're in the location shown in the image above. Install the rubber caps over the ends of the primary radiator coolant pipes and secondary radiator coolant pipes and secure them in place with the

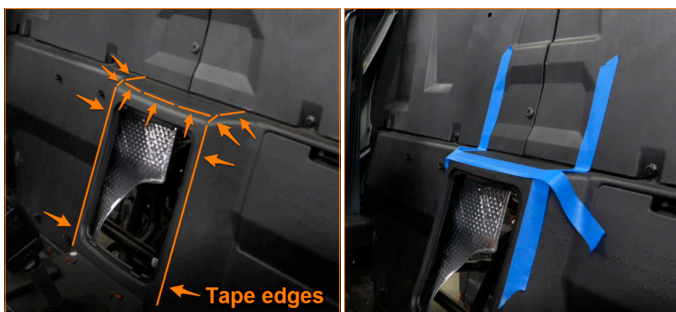
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provided worm gear clamps. (2x MM4594-10, 2x MM1342-07, 2x MM1325-4, 2x MM1342-11, and 2x MM1325-3)

04. Remove the seats from the vehicle.



05. Remove the engine access cover.



06. Apply painters' tape as shown in the above images. The tape will be used as a guide for locating one of the included brackets.



07. Place the lower hose routing bracket on the rear bulkhead and position it centered between the tape lines. (MM2384-07)



08. Transfer the lower hose routing bracket mounting holes onto the rear bulkhead using a marker. Using a drill and 1/4" drill bit, drill a hole at each of the markings, then remove the painters' tape. (Marker, drill, and 1/4" drill bit)

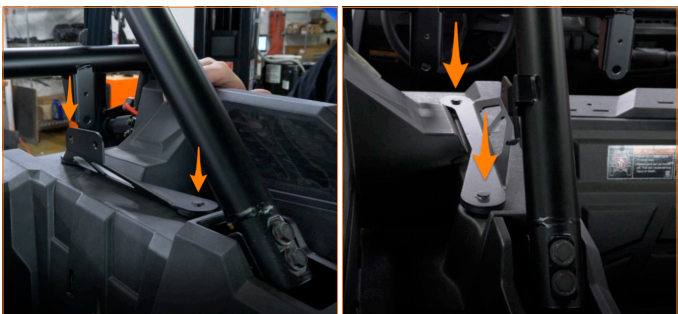


09. Secure the lower hose routing bracket in place using the provided hardware from the bag labeled "HOSE ROUTING" and 2x nut brackets. (MM2384-07, 2x MM2384-08, and 4x HF6X1.0-16D)

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10. Install the provided bushings onto the lower radiator brackets. (MM2421-01, MM2421-02, and 4x MM1742)



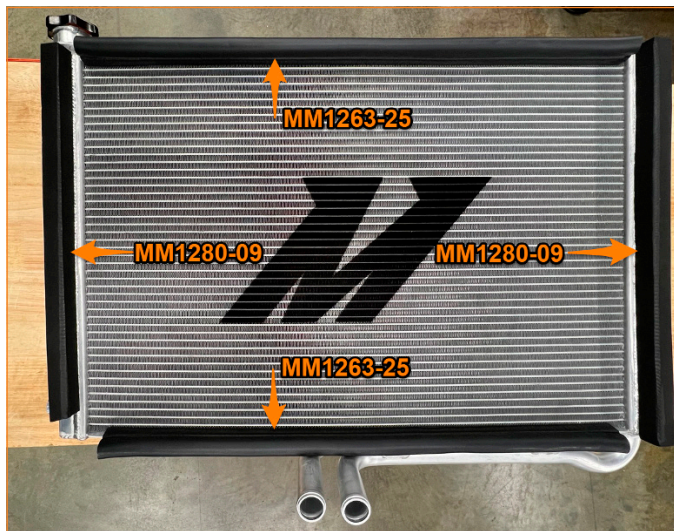
11. Install the lower radiator bracket assemblies into the existing holes just in front of the rear roll bar mounts.



12. Place the secondary radiator between the two lower radiator bracket assemblies and loosely fasten it in place using hardware from the bag labeled "RADIATOR". (MM5235 and 2x HF8X1.25-12C)

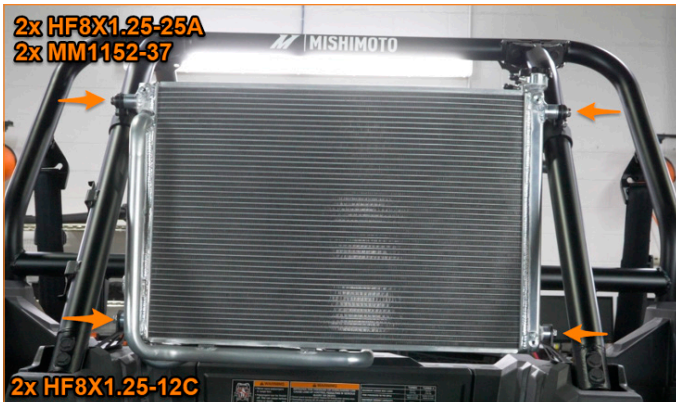


13. Loosely install the inner upper radiator brackets to the secondary radiator using hardware from the bag labeled "RADIATOR". (2x MM2384-03, 2x MM1152-37, and 2x HF8X1.25-25A)

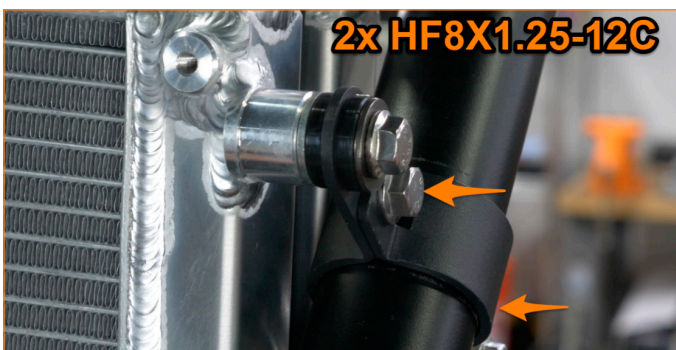


14. Install the weather stripping and adhesive-backed foam to the front of the primary radiator as shown in the image above. (MM5234, 2x MM1280-09, and 2x MM1263-25)

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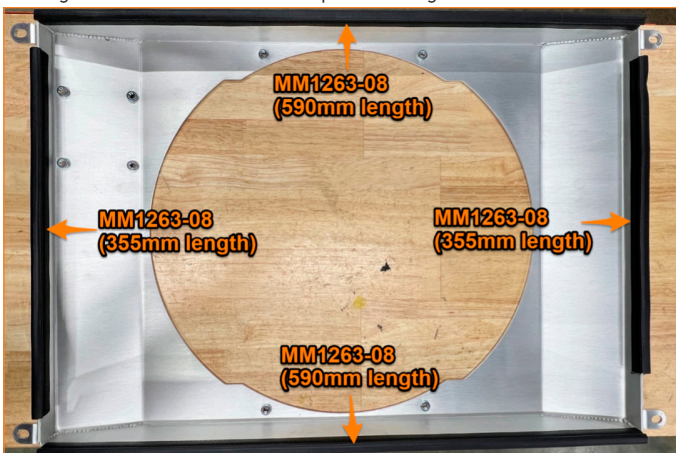


15. Place the primary radiator between the two lower and upper radiator bracket assemblies and loosely fasten it in place using hardware from the bag labeled "RADIATOR". (MM5234, 2x HF8X1.25-12C, 2x HF8X1.25-25A, and 2x MM1152-37)



16. Secure the inner upper radiator brackets to the rear roll bars by installing the outer upper radiator brackets. Fasten the brackets in place using hardware from the bag labeled "RADIATOR" (2x MM2384-04 and 4x HF8X1.25-12C)

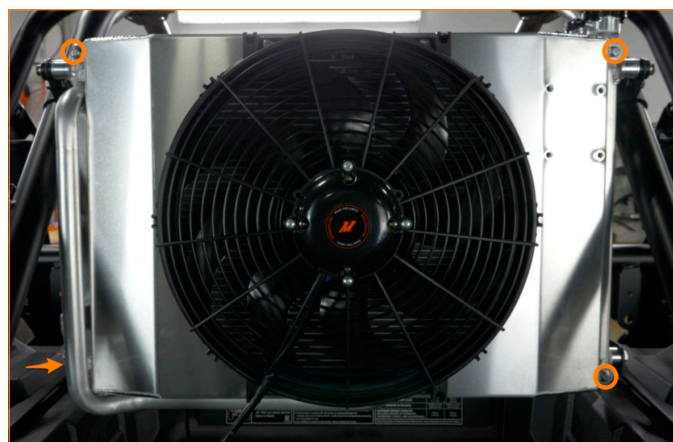
17. Tighten all hardware from steps 12 through 16.



18. Install the weather stripping to the fan shroud as shown in the image above. (MM799, 2x MM1263-08 355mm length, and 2x MM1263-08 590mm length)



19. Fasten the fan to the fan shroud as shown in the image above using hardware from the bag labeled "FAN SHROUD". Secure the fan wiring harness to the fan shroud using 1x zip tie tree clip. (MM1301, 4x HF6X1.0-12A, and 1x zip tie tree clip)

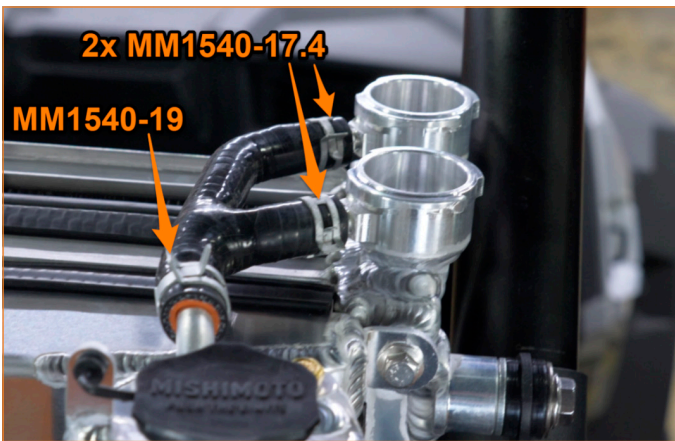


20. Install the fan shroud assembly to the primary radiator using hardware from the bag labeled "FAN SHROUD". (4x HF6X1.0-14)

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21. Fasten the coolant reservoir to the fan shroud using hardware from the bag labeled "RESERVOIR". (4x HF6X1.0-10B)



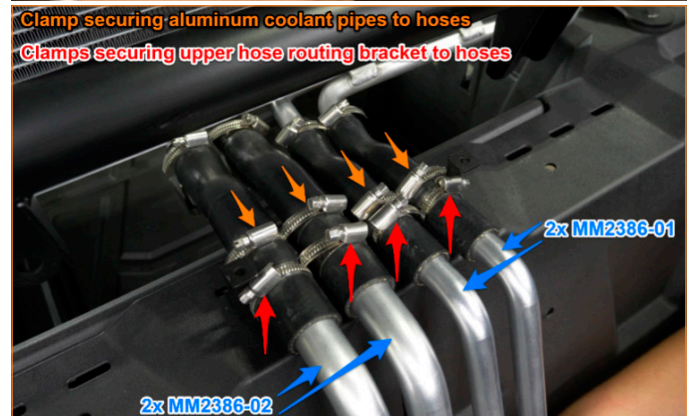
22. Install hose 5 to the two radiator overflow ports and the coolant reservoir port. Secure it in place using the provided spring clamps. (MM4594-05, 2x MM1540-17.4, and MM1540-19)



23. Connect the short sides of hoses 6 and 7 to the primary and secondary radiators using the provided clamps. (2x MM4594-06, 2x MM4594-07, 2x MM1325-4, 2x MM1325-5)



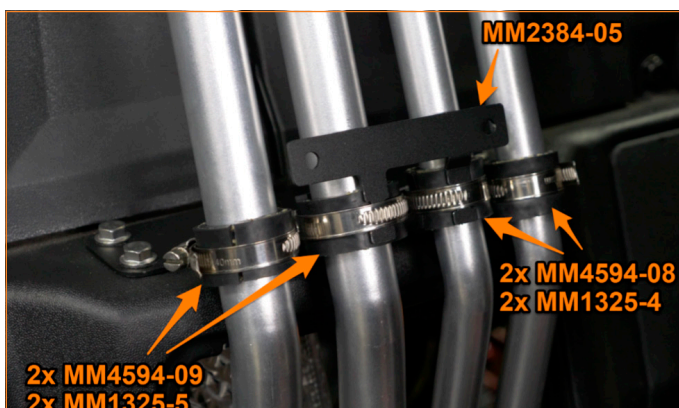
24. Install the upper hose routing bracket into the slots located on the top surface of the rear bulkhead.



25. Install coolant pipes 1 and 2 into hoses 6 and 7 using the provided clamps. The clamps furthest away from the ends of the hoses are used to seal the connection. The clamps closest to the ends of the hoses are to be placed over the tines on the upper hose routing bracket. Once

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tightened, the clamps will secure the upper hose routing bracket in place. Pay close attention to how the clamps are oriented in the image above.



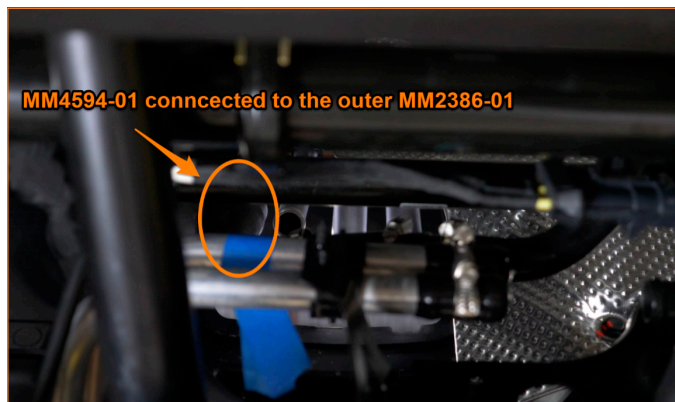
26. Secure the coolant pipes and bracket 5 in place using the provided insulators and clamps. Be sure to place the clamps over the tines on the lower hose routing bracket and bracket 5. Pay close attention to how the clamps are oriented in the image above. (MM2384-05, 2x MM4594-08, 2x MM4594-09, 2x MM1325-4, and 2x MM1325-5)



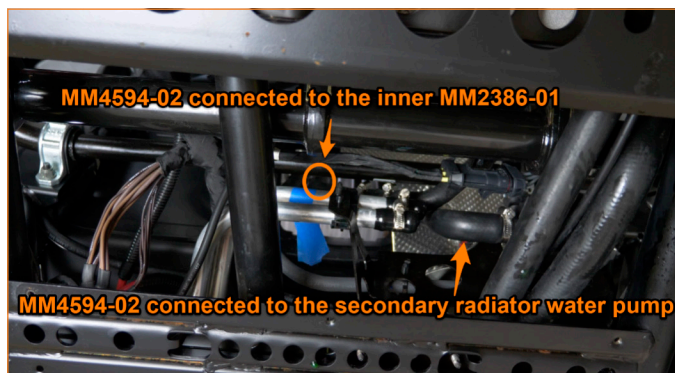
27. Insert pipe 3 into the shorter end of hose 1 then secure it in place using one of the provided worm gear clamps. (MM2386-03, MM4594-01, and MM1325-4)



28. Connect the Mishimoto hose 1 assembly to the secondary radiator coolant hose 1 and secure it with one of the provided worm gear clamps. (1x MM1325-4)



29. Connect the Mishimoto hose 1 assembly to the outermost pipe 1 and secure it in place with one of the provided worm gear clamps. (1x MM1325-4)



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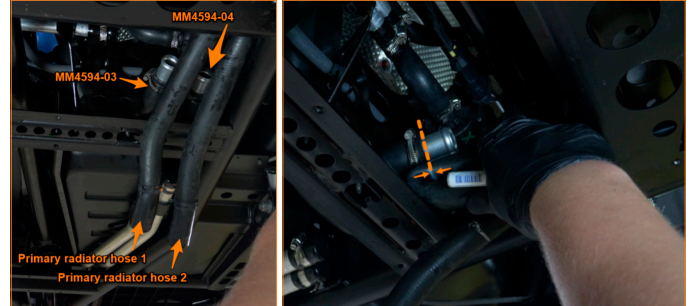
30. Connect the shorter end of the Mishimoto hose 2 to the secondary radiator water pump and secure in place with one of the provided worm gear clamps. Connect the other end of the Mishimoto hose 2 to the innermost pipe 1 and secure in place with one of the provided worm gear clamps. (MM4594-02, 2x MM1325-4)



31. Insert 1x pipe 4 into the short ends of both Mishimoto hose 3 and Mishimoto hose 4, then secure the pipes in place using the provided worm gear clamps. (MM4594-03, MM4594-04, 2x MM2386-04, and 2x MM1325-5)



32. Connect Mishimoto hose 4 to the innermost pipe 2 then secure it in place with one of the provided worm gear clamps. Connect Mishimoto hose 3 to the outermost pipe 2 then secure it in place with one of the provided worm gear clamps. (2x MM1325-5)



33. Mark both primary radiator coolant hoses as shown in the above image, then cut the primary radiator coolant hoses.



34. The image above shows the primary radiator coolant hoses after being cut to the correct length.

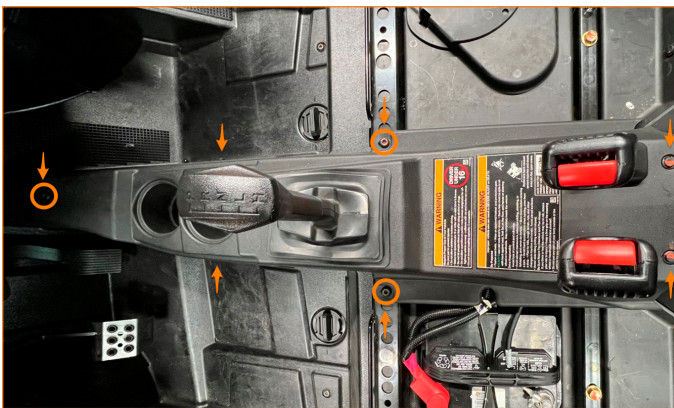


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35. Connect Mishimoto hose 3 to the primary radiator hose 1 then secure it in place with one of the provided worm gear clamps. Connect Mishimoto hose 4 to the primary radiator hose 2 then secure it in place with one of the provided worm gear clamps. (2x MM1325-5)



36. Test fit the center console cover to confirm the holes on the top and front align with the holes on brackets 6 and 7. Do not install the cover at this time. (MM1765-01)



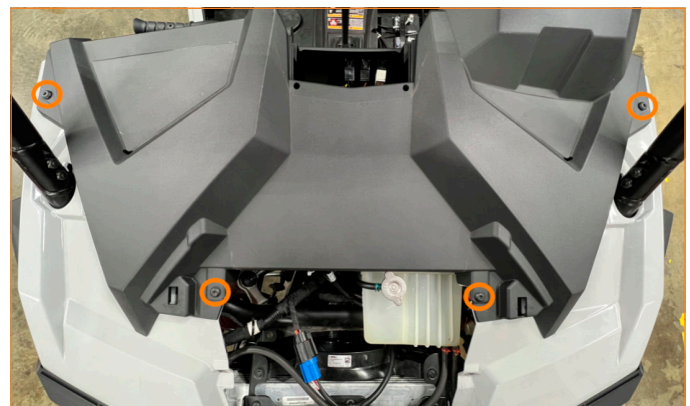
37. Remove the center console from the vehicle. (4x pop-clips, 3x Torx bolts)



38. Remove the storage compartment from the top of the dashboard. (2x pop-clips)



39. Remove the hood from the vehicle.

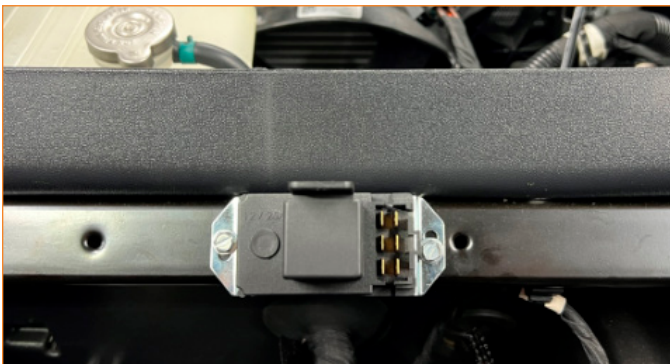


40. Remove the upper dashboard cover. (4x Torx bolts)

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41. Place the Mishimoto fan controller on the upper bar located just behind the front bulkhead and space it approximately 1/2" from the existing hole shown in the image above. Transfer the location of the two mounting holes on the Mishimoto fan controller to the bar using a marker. Remove the Mishimoto fan controller from the bar and drill a 5/32" hole at the two marked locations. (Mishimoto fan controller, marker, 5/32" drill bit)



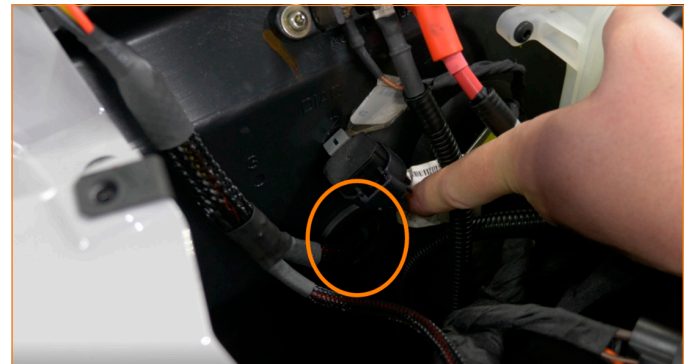
42. Secure the Mishimoto fan controller in place with the provided self-tapping screws. **DO NOT USE AN IMPACT DRIVER ON THE SELF-TAPPING SCREWS.** (Mishimoto fan controller, 2x self-tapping screws)



43. Remove the grommet from the front bulkhead.



44. Slide the grommet over the Mishimoto fan controller wiring harness and into the position shown in the image above. (Mishimoto fan wiring harness)

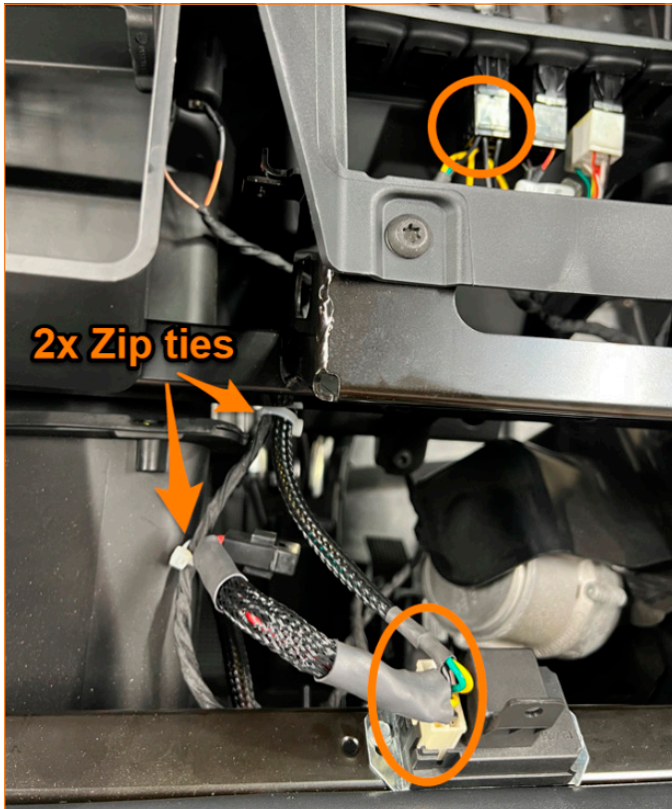


45. Feed the short end of the Mishimoto fan controller wiring harness through the hole in the front bulkhead and then reinstall the grommet. (Mishimoto fan wiring harness)

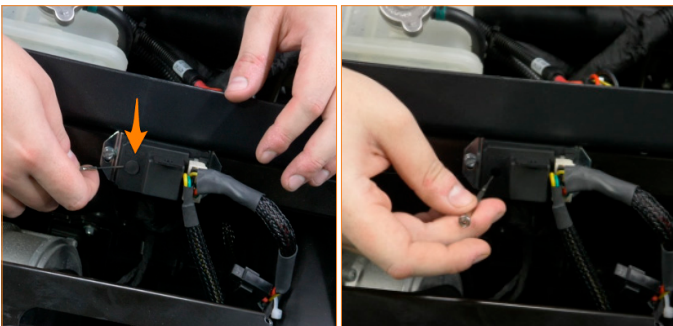


46. Remove the blank switch plate from the center of the dashboard and install the Mishimoto fan override switch in its place. (Mishimoto fan override switch)

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47. Connect the harness connectors to the Mishimoto fan controller and Mishimoto fan override switch then loosely zip tie the harness in place.
*Note, the zip ties used in this install guide are white in color to make them easier to see in the images. The zip ties supplied with the kit will be black in color. [2x zip ties]



48. Remove the rubber plug covering the fan activation trimpot. Using a small flat head screwdriver, rotate the trimpot counterclockwise to its

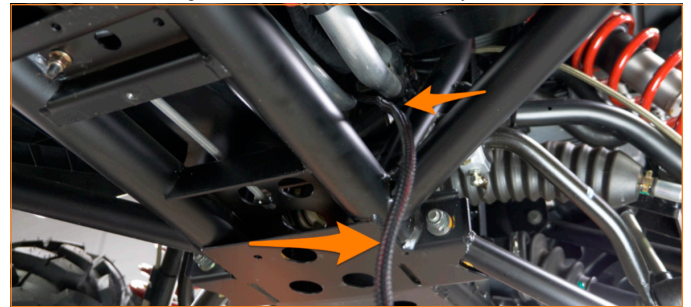
lowest setting. Do not reinstall the rubber plug as the trimpot will be adjusted again in a later step.

49. Remove the ground cable from the battery.



50. Connect the positive, ground, and accessory wires from the Mishimoto fan controller wiring harness to the power distribution bar. Zip tie the harness in place. [1x zip tie]

51. Reconnect the ground terminal to the battery.



52. Feed the long end of the Mishimoto fan controller wiring harness down towards the ground between the aluminum coolant pipes.



53. Feed the Mishimoto fan controller wiring harness up into the cabin,

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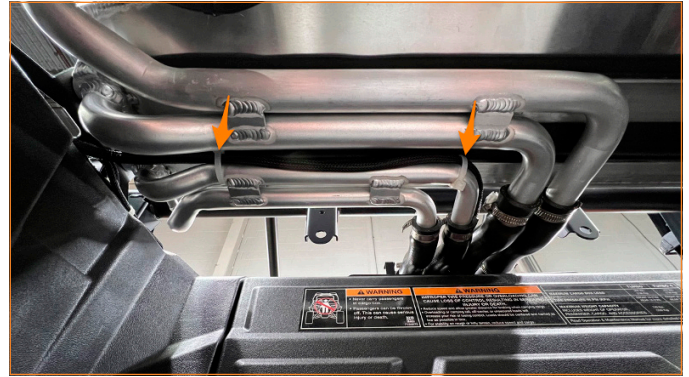
between the aluminum coolant pipes, through the area where the center console would normally be situated.



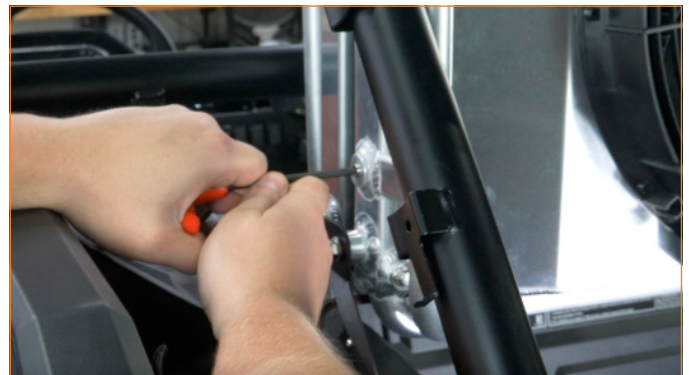
54. Route the Mishimoto fan controller wiring harness along the existing vehicle wiring harness and loosely zip tie it in place. (4x zip ties)



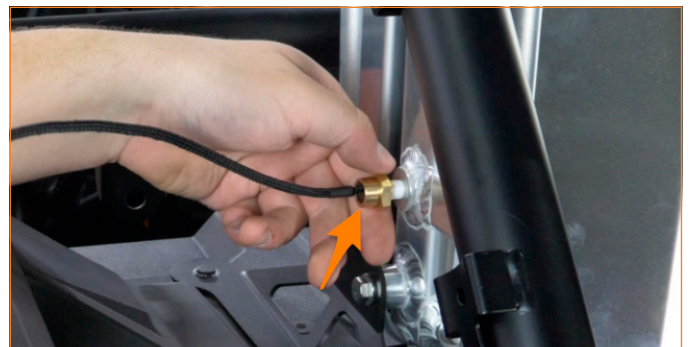
55. Route the Mishimoto fan controller wiring harness along the innermost pipe 1 and loosely zip tie it in place. (4x zip ties)



56. Route the Mishimoto fan controller wiring harness along the innermost pipe on the secondary radiator and loosely zip tie it in place. (2x zip ties)



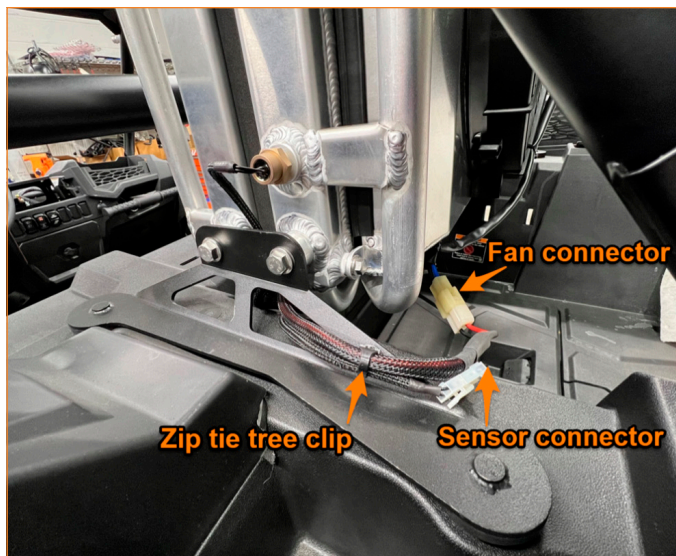
57. Remove the NPT plug from the primary radiator.



58. Apply Teflon tape to the Mishimoto fan controller temperature

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sensor, then thread the sensor into the primary radiator. (Mishimoto fan controller temperature sensor)



59. Connect the harness connectors to the Mishimoto fan controller temperature sensor and fan. Secure the harness in place using a zip tie tree clip. (1x zip tie tree clip)

60. Tighten all the zip ties from steps 54, 55, and 56.

61. Fill the primary radiator, secondary radiator, and coolant reservoir with coolant.



62. Turn the key to the accessory position, you should hear the fan turn on. Using a small flat head screwdriver, rotate the trimpot clockwise

until the fan turns off. This is a good starting point for setting the activation temperature of the fan controller. Reinstall the rubber plug.

63. Start the engine to begin the process of bleeding the primary and secondary cooling systems.

64. Visually inspect all the coolant pipes and hoses for leaks.



65. Once the cooling system has been bleed and no leaks have been found, reinstall the upper dashboard cover, hood, upper dashboard storage compartment, and center console.

66. Install the center console cover and secure it in place using the provided tree clips. (MM1765-01, 4x MM925)

67. Reinstall the seats.

68. Reinstall the front and rear skid plates.

Congratulations! You have finished your installation.

DISPOSAL INSTRUCTIONS

- Do not dispose of any product as unsorted municipal waste. Use separate collection facilities. Contact your local authority for information regarding the collection systems available.
- Never improperly dispose of any coolant, oil, or other chemicals.

WARRANTY INFORMATION



- All claims must be accompanied with a picture of the Mishimoto product showing the issue for which the claim is being submitted.
- Mishimoto asks that the customer inspect their purchased item for any damage immediately upon arrival.
- Any product deemed dead on arrival (DOA) must be claimed within 14 business days of delivery. Claims outside of this time frame will not be covered under the Mishimoto Lifetime Warranty.
- This warranty does not include payment and/or reimbursement of the cost of labor in connection with the removal of any product returned pursuant to the warranty policy or in connection with the installation of any replacement items provided under the warranty policy.
- Mishimoto has the right to refuse a claim at any time.
- When Mishimoto accepts a claim, Mishimoto retains full discretion to choose if it will: (i) repair or replace purchaser's original Mishimoto product; (ii) replace purchaser's original Mishimoto product with the most current available model; or (iii) provide the purchaser with a gift card redeemable on [Mishimoto.com](https://www.mishimoto.com) in the amount of the original purchase price of the original Mishimoto product. The provision of a replacement of a Mishimoto product is subject to availability and Mishimoto retains the right to substitute any warranty claim item with a comparable item or credit at any time.

➤ If Mishimoto determines that it will provide a replacement item in connection with a claim under this warranty policy, and such item is out of stock, Mishimoto will place the customer on backorder and ship the replacement product to the purchaser once it becomes available.

➤ Mishimoto is not liable for incorrect shipments in connection with a claim if a claim form is completed incorrectly, or if a model number is not included in a claim.

➤ If you have a vehicle equipped with an automatic transmission, please make sure to specify this within the text box on the claim form. Mishimoto is not responsible for incorrect replacement shipments if transmission type is not indicated.

This product can expose you to chemicals which are known to the state of California to cause cancer. For more information visit: www.p65warnings.ca.gov



WARNING
Cancer and
Reproductive Harm
www.P65Warnings.ca.gov