

NEMESIS INDUSTRIES

2012+ JK Evap. Canister Relocation Kit

Thank you for purchasing one of our quality products. From product conception to the moment we packaged this product our focus has been on providing you with the very best. A great deal of effort is spent making sure you receive a quality part that will hold up to years of abuse. If for any reason you are unsatisfied with anything purchased from Nemesis Industries Inc. it may be returned within 10 days in unused condition for your choice of an exchange or a full refund (less shipping charges). Thank you for your purchase and we hope to see you on the trail soon.

Pre-Install Notes:

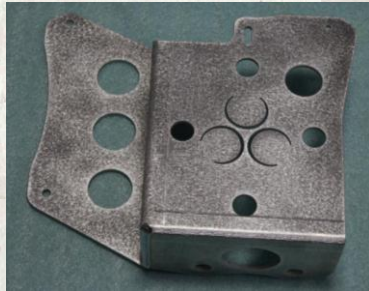
- **Before you start it is imperative that you read these instructions. Failure to do so may result in an unsatisfactory installation or personal injury.**
- It is the purchasers / installers responsibility to inspect the package for any missing or damaged pieces prior to beginning installation. If any discrepancies are discovered please contact us immediately so we may rectify the situation.
- Carefully read the Product Warranty and Assumption of Risk Agreement at the end of this document.
- This document is also available on our website in .pdf format with images that can be enlarged for greater clarity www.nem-ind.com/tech
- Your personal safety is of the utmost importance. Please, exercise caution when working around and under your vehicle.
- Wear personal protective equipment such as safety glasses, hearing protection and gloves when working on your vehicle.

Installation Instructions



Box Contents:

Evap. Canister Mount



Isolation Bracket



Aluminum Washer



Vibration Dampening Stud



Hardware Pack Contents:

Part	Size	Length	Quantity
GR8 Hex Head Bolt	3/8"	3"	2
GR8 Nylock Nut	3/8"	N/A	2
Thru Hard Washer	3/8"	N/A	4
Large Aluminum Washer	3/8"	N/A	1
Button Head Bolt	1/4"	1"	1
Flanged Nut	1/4"	N/A	1
Vibration Dampening Stud	1/4"	N/A	1
Fuel Vapor Hose	5/8"	40"	1
Hose Clamp	5/8"	N/A	4
Zip Tie	N/A	6"	10



Tools Required:

3/8" Drive Ratchet	7/16" Drill Bit
3/8" Drive 9/16" Socket	Hose Cutters
3/8" Drive 16mm Socket	Wire Cutters/Flush Cutters
3/8" Drive 13mm Socket	Flathead Screw Driver
3/8" Drive 10mm Socket	Small Hammer
9/16" Open-end Wrench	Paint Pen/Marker
5/32" Hex Key	Anti-Seize/Brake Caliper Grease
Drill	WD-40



Precautions:

- 1. Make sure the vehicle is in park or first gear with the parking brake set. Vehicle should be on a level, sturdy surface and properly secured to prevent movement while working on it. We recommend using wheel chocks or blocks to ensure the vehicle does not move during the installation process.**
- 2. If lifting of the vehicle is required please consult the vehicle owner's manual for proper lifting techniques and jack placement. Use jack stands to support the vehicle when working under it.**
- 3. Always wear appropriate personal protective equipment: gloves, hearing, and eye protection at a minimum.**
- 4. Use caution when lifting components into place, make sure components are secured during installation.**
- 5. If drilling is required eye protection is especially important to avoid injury. Also be sure to thoroughly inspect the area around where you are drilling to avoid damaging wiring or other components.**
- 6. Use extreme caution when cutting or trimming is required.**
- 7. Please follow the recommended specifications for torque on all hardware. We recommend checking the torque during regular routine maintenance on all aftermarket accessories.**
- 8. Use caution when routing electrical cables and lines. Avoid moving parts, components that become hot and rough or sharp edges.**
- 9. Always insulate and protect all exposed wiring and electrical terminals.**
- 10. Disconnect the battery cables from both terminals with caution, and ensure that they do not touch.**
- 11. Do not start vehicle during this install. Starting vehicle with the evap. canister disconnected will result in a check engine light and a possible trip to the dealership to have it checked and cleared.**



Install Procedure:

1. **If not completed already, disconnect negative battery cable. DO NOT TOUCH TO POSITIVE.**

Tools: 10mm open-end wrench

2. **Mark hoses for reassembly.**

Tools: Paint pen/marker

Tip: Mark the hoses the same as the picture below.

#1 goes to the fuel vent

#2 goes to the fuel tank

#3 goes to the purge valve

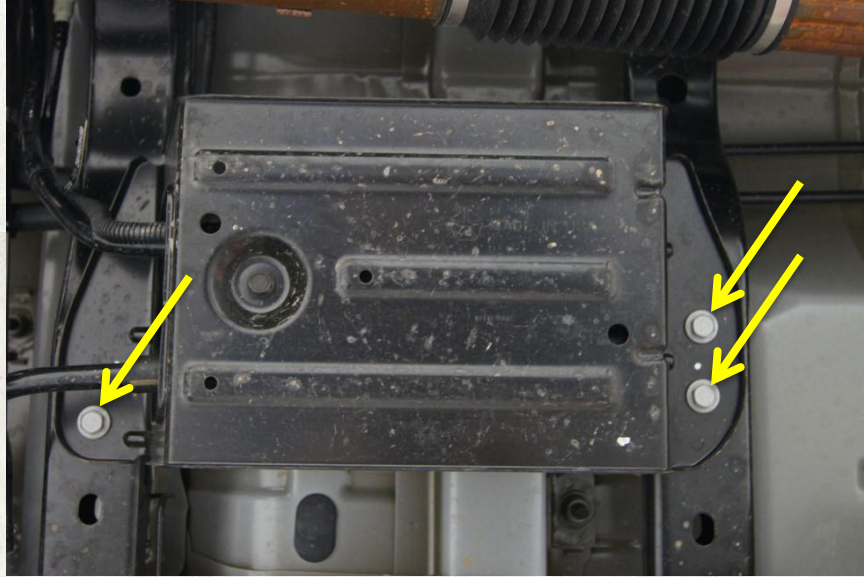


3. **Disconnect hoses and electrical connectors on evap. canister. Be careful when removing the hoses.**

Tip: On the electrical connector slide the red lock to the unlock position then push the tab to release.



- 4. Remove the 3 hex head bolts that hold the evap. canister to the cross members.**
Tools: 3/8" ratchet, 3/8" drive 16mm socket
Tip: 2 Bolts are at the front of the canister and 1 is in the rear.



- 5. Remove evap. canister from the factory bracket by removing the single bolt and sliding the canister forward.**
Tools: 3/8" drive ratchet, 3/8" drive 13mm socket
Note: **Retain this factory hardware for re-assembly.**





- 6. Install evap. canister in the new Nemesis Industries bracket. Secure with factory bolt and tighten to 15 ft./lbs.**

Tools: 3/8" drive ratchet, 3/8" drive 13mm socket

HDW: 1 - factory evap. canister bolt

Tip: Make sure to seat the rear of the evap. canister into the two holes in the rear of the new mount.

Note: **Do not over tighten the bolt, it will strip the threads on the evap. canister. Tighten to 15 ft./lbs.**

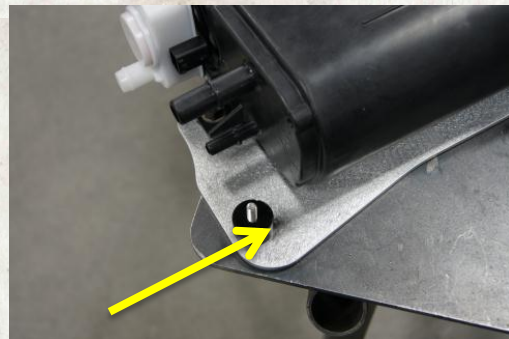
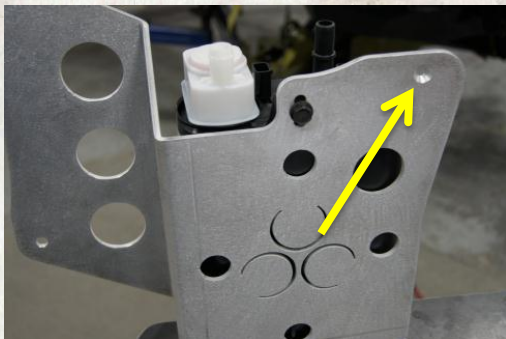


- 7. Install rubber isolation bung using supplied 1/4" - 20 flat head bolt. The threaded end will point down.**

Tools: 5/32 hex key

HDW: 1 - 1/4" x 20" flat head bolt

1 - 1/4" rubber bung

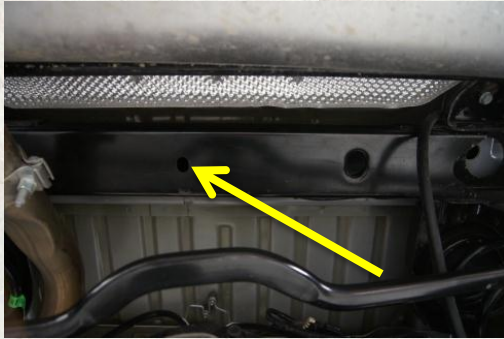




8. Drill 7/16" hole through the top of the factory cross member. Center the drill bit in the factory hole.

Tools: Drill, 7/16" drill bit

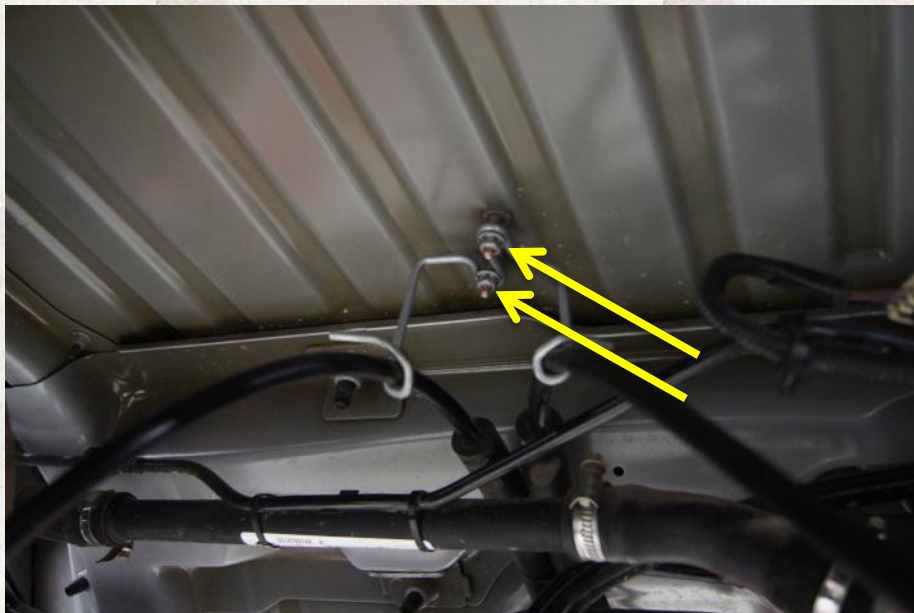
Note: Be careful of the wiring harness that runs on the top of the cross member.



9. Remove the two (2) 6mm nuts holding the mount for the parking brake cables in place.

Tools: 3/8" drive ratchet, 3/8" drive 10mm socket

Tip: Depending on the lift height of the vehicle these nuts may have already been removed. If they are already removed you will need to purchase two (2) - 6 x 1.0 flange nuts.





10. Install canister using supplied 3/8" hardware. The rectangular aluminum washer sits on top of the cross member on the passenger side. DO NOT tighten the bolts at this point.

Tools: 3/8" drive ratchet, 3/8" drive 9/16" socket, 9/16" open-end wrench

HDW: 2 – 3/8" x 3" hex head bolts

2 – 3/8" washers

2 – 3/8" nylock nuts

1 – 3/8" large aluminum washer

Tip: Use anti-seize or caliper grease on bolts during assembly to allow for easy removal in the future.

Note: **DO NOT tighten the 3/8" bolts at this time.**





11. If your vehicle has less than 2" of lift the factory parking brake cable mount will be reused. Install the two (2) factory 6mm nuts, parking brake cable mount, and the 1/4" flange nut to hold the isolation bracket in place.

Tools: 3/8" drive ratchet, 3/8" drive 10mm socket, 3/8" drive 7/16" socket

HDW: 2 – factory 6 x 1.0 flange nuts

1 – 1/4" serrated flange nut

Note: **Leave hardware loose.**





12. If your vehicle has more than 2" of lift the factory parking brake cable mount will NOT be able to be reused. Install the two (2) factory 6mm nuts and the 1/4" flange nut to hold the isolation bracket in place.

Tools: 3/8" drive ratchet, 3/8" drive 10mm socket, 3/8" drive 7/16" socket

HDW: 2 – factory 6 x 1.0 flange nuts

1 – 1/4" serrated flange nut

Note: Leave hardware loose.



13. Slide the evap. canister mount forward to ensure the evap. canister bracket does not rub on the body.





14. Tighten the 3/8" hardware. DO NOT over tighten the 3/8" bolts you will crush the cross member. We recommend 10-15 ft./lbs. torque.

Tools: 3/8" drive ratchet, 3/8" drive 9/16" socket, 9/16" open-end wrench

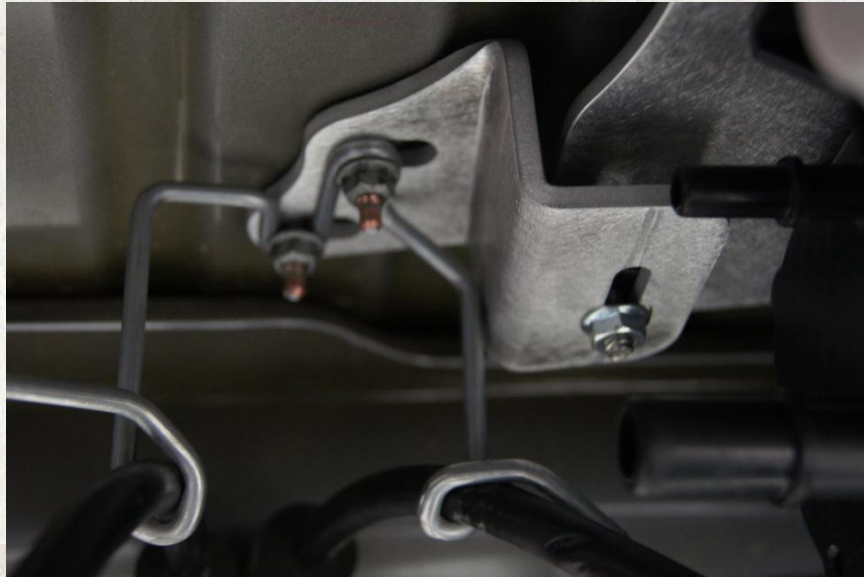
Tip: Align the evap. canister mount to the back side of the cross member before tightening the bolts.

Note: DO NOT over tighten the 3/8" bolts. You will crush the cross member. Only use 10-15 ft./lbs. torque.

15. Tighten the hardware holding the isolation bracket to the body and the evap. canister mount. DO NOT over tighten nuts we recommend 3-5 ft./lbs. torque.

Tools: 3/8" drive ratchet, 3/8" drive 7/16" socket, 3/8" drive 10mm socket

Note: DO NOT over tighten the nuts. Only use 3-5 ft./lbs. torque.





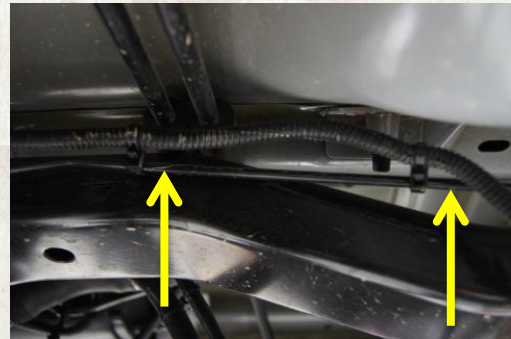
16. Adjust the emergency brake cable holder so it does not come in contact with the evap. canister bracket.



17. Cut zip ties holding the small vent line (#3) and the electrical connector.

Tools: Side cutters

Note: There are two (2) on each line.





18. Route the electrical connector above the cross member and fuel fill tube.

Tip: Use zip ties as required to secure from heat and rubbing.
Using dielectric grease will ensure a lasting quality connection.



19. Route the smaller vent line (#3) above the fuel fill tube and e-brake lines and connect to the evap. canister.

Tip: No need to cut or modify this line.
Note: Zip tie as needed.





20. Cut the vent line (#1) 3" from the end of the grey connector.

Tools: Hose cutter

Note: Discard the rest of the vent line it will not be re-used.





21. Install 5/8" hose between the factory connector and the #1 inlet on the evap. canister.

Route on top of fuel fill tube.

Tools: Flat tip screwdriver

HDW: 22" of 5/8" hose (approx.)

2 – 5/8" hose clamps

Tip: Leaving hose clamps loose until all lines are run will make positioning much easier.

Spray WD-40 into 5/8" hose to allow it to slide over the factory tubing easier.

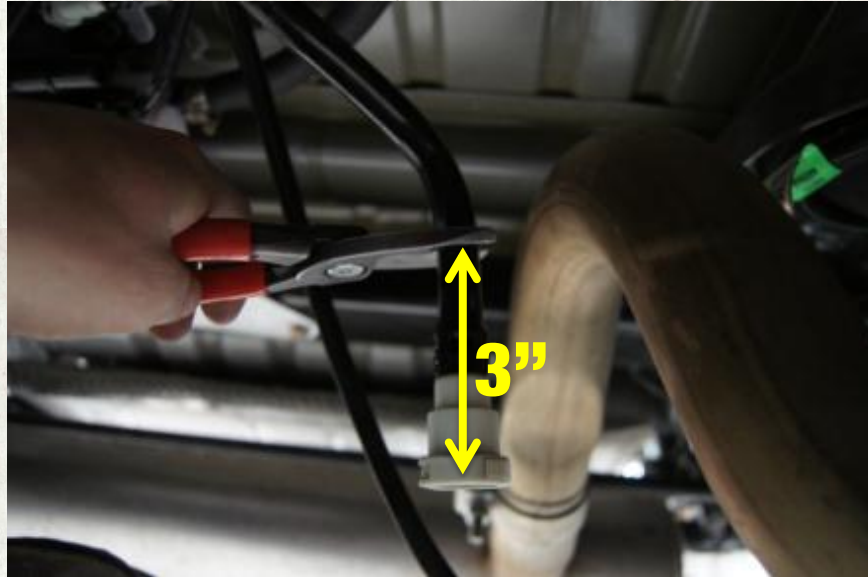
Note: Be sure to route hose away from heat sources and rubbing hazards.





22. Route hose #2 with the white connector that comes from the fuel tank over the fuel fill tube. Cut 3" from the end of the white connector.

Tools: Hose cutter



23. Cut the fuel tank side of the vent tube about 3" past the fuel filler tube.





24. Slide one end of the supplied 5/8" tube on the tank side of the evap. vent tube.

Tools: Flat tip screwdriver

HDW: 5/8" hose (amount leftover from step 21)

1 - 5/8" hose clamp

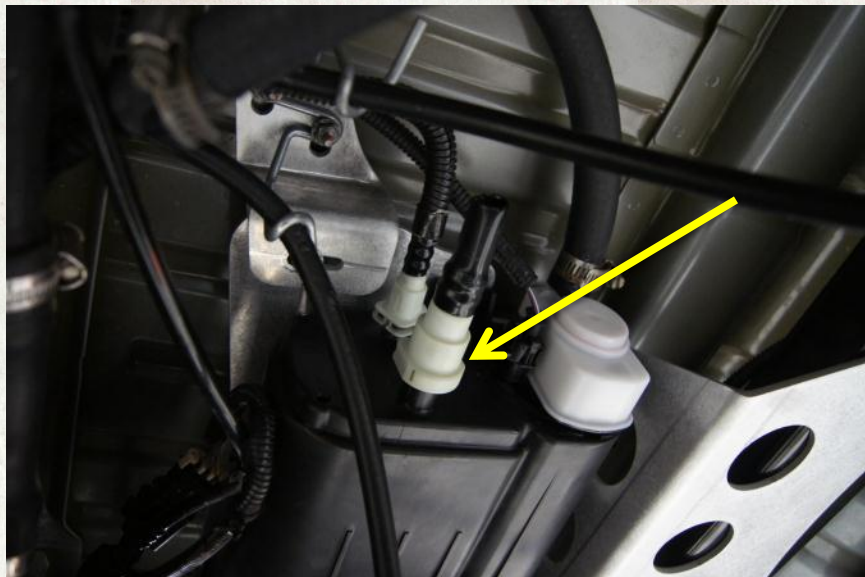
Tip: Leave hose clamp loose until final routing has been completed.

Spray WD-40 into 5/8" hose to allow it to slide over the factory tubing easier.

Note: Be sure to route hose away from heat sources and rubbing hazards.



25. Install the connector end of hose #2 on to the evap. canister.





26. Cut the supplied 5/8" hose to exact length and connect to the end to the tube attached in the previous step.

Tools: Hose cutter

HDW: 16" of 5/8" hose (approx.)

1 – 5/8" hose clamp

Tip: Be sure to leave enough length to avoid a kink in the hose.

Leave hose clamp loose until final routing has been completed.

Spray WD-40 into 5/8" hose to allow it to slide over the factory tubing easier.

Note: Be sure to route hose away from heat sources and rubbing hazards.



27. Tighten all hose clamps.

Tools: Flat tip screwdriver

28. Zip tie all hoses and wiring away from heat and rubbing hazards.

HDW: Zip ties



29. Cut the tails off of all zip ties used.

Tools: Wire cutters or flush cutters



30. Reconnect battery cables.

Congratulations! Your JK now has a new level of protection!

Thank you for your purchase. If you have any questions or comments about these instructions please contact us at:

303-974-2440

info@nem-ind.com



Troubleshooting:

- 1. Please check our technical support page for additional resources pertaining to the install of this product.**
- 2. Check engine light at startup.**
 - **Turn off Jeep and check all hose clamps.**
 - **New hose needs to be pushed all the way up to the connectors.**
 - **Electrical plug is connected properly.**



Warranty:

The goal of all of us at Nemesis Industries, Inc.™ is to ensure you are delighted not only with this purchase, but also with any additional purchases and to that end Nemesis offers a ten (10) day from the ship date no questions asked return policy if products are returned in an "unused" condition, this excludes custom parts or parts with custom paint or powdercoat. In addition, Nemesis warrants your product for two (2) years from the date of sale to be free from defects in material and workmanship under normal installation and use. This warranty is limited to the costs of repair and replacement. Therefore, no type of labor or shipping allowance is available in connection with a customer's repair, removal, reinstallation or return of a damaged product. Should any questions arise, please call Nemesis at (303) 974-2440. We remind you that all finishes, painted or powder coated, must be cleaned and waxed regularly and the portion of the warranty concerning the products' finish does not apply to products that have been chipped, scratched or damaged in any way. All warranty claims are subject to inspection by Nemesis. Following such inspection, the product in question may either be repaired or replaced when found defective. Prior to any replacement or repair, written authorization as to the action to be taken shall be issued by Nemesis. Failure to contact Nemesis prior to having warranty work performed shall immediately void all applicable warranties.

THE WARRANTY EXPRESSED ABOVE IS THE SOLE WARRANTY OF NEMESIS AND ANY OTHER EXPRESSED OR IMPLIED WARRANTIES ARE HEREBY SPECIFICALLY EXCLUDED AND DISCLAIMED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. EXCEPT FOR THE LIMITED WARRANTY DESCRIBED HEREIN, NEMESIS SHALL NOT BE LIABLE TO ANYONE FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, SPECIAL OR EXEMPLARY DAMAGES OR OTHER DIRECT OR INDIRECT DAMAGES OF ANY TYPE OR KIND ARISING FROM ANY BREACH OF WARRANTY ARISING FROM OR IN CONNECTION WITH THE PURCHASE OF NEMESIS PRODUCTS.



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Customer's Acknowledgments. Customer understands and acknowledges that products purchased from Nemesis Industries, Inc.TM ("Nemesis") are designed to protect against certain types of property damage from minor impacts, but are not designed as a crash safety device, or as an impact resistant product designed for the protection of occupants, but instead are cosmetic enhancements to assist in protecting against minor impact damage with certain stationary obstacles. As a result, Customer also understands and acknowledges that the installation of Nemesis products on a Vehicle and the voluntary use of that Vehicle for off-road activities (each, hereinafter, and "an Off-Road Activity") is inherently dangerous and hazardous and can result in damage to the Vehicle, to others, to the property of others and in the serious bodily injury or death to Customer or others.

Use in an Off-Road Activity. By accepting a Nemesis product and using such product in any Off-Road Activity, Customer accepts and agrees to all of the terms described below (the "Release"); provided that Customer may in lieu of accepting the terms of this Release and prior to installation, elect to return any Nemesis product and receive a full refund. Such return may be initiated by contacting a Nemesis sales representative or by directly contacting Nemesis at (303) 974-2440 or at www.nem-ind.com for the issuance of a call tag for the product in question. Once the product being returned has been received by Nemesis in good condition, a full refund will be issued minus shipping charges.

Assumption of Risk and Release. Customer assumes all risk and responsibility of engaging in an Off-Road Activity which is acknowledged as being inherently dangerous. Customer understands that persons participating in an Off-Road Activity must possess specialized knowledge and skills, and in voluntarily deciding to do so, Customer assumes all risks inherent therein which may be encountered at any time in connection with an Off-Road Activity. With full knowledge of the above and all risks inherent therein, Customer and others who may voluntarily choose to engage in an Off-Road Activity accepts full responsibility for and assumes all risks associated with engaging in an Off-Road Activity, whether known, unknown, or inherent, and acknowledge and agree that such persons are assuming all responsibility for any and all consequences resulting from the participation in an Off-Road Activity, including, but not limited to, injury and/or death to Customer or others and damage to the Vehicle and other property. Customer and each other participant in any Off-Road Activity hereby release, and forever discharge and shall hold harmless each other and Nemesis, including all of their respective predecessors, affiliates, successors, assigns, partners, venturers, principals, officers, directors, managers, shareholders, attorneys and agents and their respective insurance carriers (the "Released Parties") and hereby release and forever discharge, indemnify and hold harmless the Released Parties, and any and all persons claiming under them, however involved, of and from any and all liability for any and all claims, demands, damages and costs, liabilities, losses, expenses, obligations, compensations, reimbursements, actions, rights, loss of profits, and rights and causes of action, of every kind and nature whatsoever, including court costs and attorney fees, whether known or unknown, which Customer and any other participant may now have, or claim at any future time to have, arising from or growing out of, or by reason of, or based in whole or in part upon, any act, omission, event, transaction, matter or thing involved, alleged or referred to, whether direct or indirect, involving an Off-Road Activity.

Release of Unknown Claims. Customer and any other participant fully realize that in participating in an Off-Road Activity they may sustain unknown and unforeseen losses, costs, expenses, damages, liabilities, and claims, and the consequences thereof, which may be at this time, and hereafter unknown, unrecognized and not contemplated by them. By participating in an Off-Road Activity, Customer and any other participant intend to release the Released Parties from any and all liability for any and all such unknown and unforeseen losses, expenses, damages, costs, liabilities, and the consequences thereof, not known, recognized nor contemplated at any time by them, which result or may result from an Off-Road Activity. Customer and any other participant expressly and forever waive any right to assert that this Release was the result of a mistake of any kind, waiving all claims based upon the doctrine of mistake.



Covenant Not to Sue. Customer and any other participant specifically covenant and agree, each with the other, never to institute or participate in any suit or action, including class actions, at law or in equity, whether sounding in tort or contract, against the Released Parties and all persons claiming under them or any of them by reason of any claim, demand, action, or cause of action described in this Release.

Miscellaneous Provisions. This Release shall be binding in all respects upon, and shall inure to the benefit of the Released Parties and their heirs, successors and assigns. This Release shall be governed by the laws of the State of Colorado, and the sole and exclusive jurisdiction for the determination of any controversy or claim arising out of the purchase of any Nemesis product shall be in the District Court of Arapahoe County, Colorado. In the event that a court of competent jurisdiction enters judgment declaring any material provision of this Release invalid or unenforceable, the remainder of this Release shall remain in full force and effect and such provision shall be limited or eliminated to the minimum extent necessary so that such invalid or unenforceable provision shall otherwise remain in force or effect. Neither Customer nor any other participant shall be entitled to any favorable construction of any provision of this Release because the Release was drafted by Nemesis or by an attorney for Nemesis. The acceptance of a Nemesis product constitutes Customer's voluntary acceptance of this Release, Customer's acknowledgement that no oral statements or inducements have been made and that full and adequate consideration has been received for this Release.

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