

GMHD20-734

Install Guide

Revision: B



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1. Application Chart

This kit is a direct bolt-on aftermarket product. The vehicles listed in the below table are considered to be compatible with this aftermarket kit. Every effort has been made to verify fitment on these vehicles in their factory condition.

WARNING: Before unpacking your kit, review this manual in full & verify the correct space & mounting locations exist with your trim package.

Year	Make	Model	Drivetrain	Engine	Cab	Bed	Trim
2020 +	Chevy	Silverado 2500HD		Vortec 6.6L	Crew	Standard Long	Work Truck Custom LT
2020 +		Silverado 3500HD	2WD				LTZ High Country
2020 +	GMC	Sierra 2500HD	4WD	Duramax 6.6L		Standard	Pro SLE SLT
2020 +	GMC	Sierra 3500HD				Long	AT4 Denali

1.1. List of compatible vehicles

NOTE: Drilling holes may be required for installing ground wires and switches based on the installer's preference.

1.2. Incompatible Vehicle Features & Packages

This kit is *NOT COMPATIBLE* with the following vehicle features / packages:

• N/A

1.3. Aftermarket Product Compatibility

This kit has been designed to be compatible with the following products from leading manufacturers:

- AMP Research PowerSteps
 - The tank must be positioned further back on the mounting bracket to avoid interference with the PowerSteps Motor. This adjustment blocks the mounting point for the nearby electrical connector. The connector may be secured by alternate means.

This kit has not been designed to be compatible with the following products:

- Aftermarket running boards that utilize 4 mounting locations along the vehicle frame rails
- Carhartt Edition
- Z71 Sports Edition
- Midnight Edition

These packages utilize running boards which contain one (1) mounting location that interferes with the placement of the air tank. <u>It may be possible to</u> <u>remove the interfering mounting bracket and install</u> <u>this aftermarket kit.</u>





2. Before You Start

Read this manual in its entirety before starting installation. Verify you have all the parts listed & that you clearly understand the installation procedure. Contact KLEINN Technical Support with any questions you may have.

Installation of this kit requires moderate mechanical aptitude.

Use the proper tools, supplementary lighting, and safety equipment when installing this kit.

3. Installation Overview

3.1. Kit Layout & Location

ltem No.	Description	Mounting Location	Approx. Install Time
1	6450RC Air Compressor	Along the passenger side frame rail, between driver & passenger door	1 Hour
2	6353RT Air Tank	Suspended under vehicle, between driver & rear passenger seat	1 Hour
3	730 Air Horns	Inside cavity of bedside steps Suspended under vehicle, between fuel tank & exhaust system	2 Hours
4	1302 Relocation Kit	TBD by Installer/Customer (Not Illustrated)	N/A

Note: Wiring time is not factored into the overall install time of this kit. See Section 6 for suggested wiring & plumbing routes.

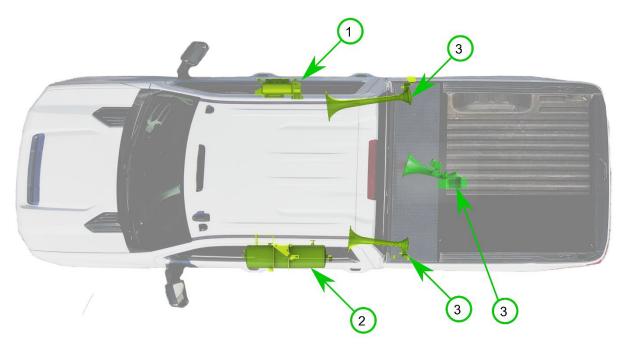


Figure 1- Kit Layout



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4. List of Tools & Supplies

4.1. Standard Tools

- Mechanic's 1/4" & 3/8" Drive & Socket Set Imperial & Metric
- Combination wrenches Imperial & Metric
- Hex wrenches Imperial & Metric
- Screwdriver Set #1, #2
- Wire Cutters
- Wire Strippers
- Wire Crimpers
- Utility Knife or Equivalent
- Precision Screwdriver or Small Pry Tool

4.2. Specialty Tools

- 1/4" & 3/8" Universal Joints
- 1/4" & 3/8" Extensions
- Multimeter, Test Light, or Equivalent
- Heat Gun
- Trim Panel Removal Tools
- Drill Driver & Bits
- Impact Driver & Bits
- Wire Running Kit or Equivalent

4.3. Consumables

- Quality Electrical Tape
- Medium Strength Thread Locker
- Sandpaper, Wire Brushes or Equivalent
- Extra Zip Ties
- Touch-up Paint





5. Parts List

Unpackage & organize the kit contents and verify all parts listed below are included. Contact KLEINN Support if any questions arise.

5.1. Primary Kit Components

NOTE: Items in this section may come in their own packages which may include additional items, hardware, or documentation.

ltem No.	Qty	Part No.	Description	Picture
1.	1	6450RC	150 PSI Waterproof Air Compressor Kit	
2.	1	6353RT	2.6 Gal. Air Tank, 9-Port	
3.	1	730	730 Series Air Horn Kit	
4.	1	1302	Quick Disconnect Air Relocation Kit NOTE: May be located within INF-1 Kit	
5.	1	INF-1	Tire Inflator Kit	aunder





5.2. Fittings & Related Items

J.Z.						
ltem No.	Qty	Part No.	Description	Picture		
F1	1	51414F	¼" NPT Female to ¼" Compression			
F2	1	51414L	¼" NPT Male to ¼" Compression, Elbow			
F3	1	51414NPTL	¼" NPT Male to ¼" NPT Female, Elbow	en e		
F4	1	52175	175 PSI Pop-Off Safety Valve			
F5	3	50040	¼" NPT Male, Hex Plug			
F6	1	52835	¼" NPT Male Drain Plug	N		
F7	1	51214L	¼" NPT Male to ½" Compression, Elbow			
F8	1	2151	Pressure switch, 110 PSI On – 145 PSI Off			
F9	12 ft & 12 ft	25014	1/4" Air Tubing NOTE: May be located within INF-1 Kit	0		
F10	10 ft	PFT38A	3/8" Air Tubing	0		
F11	2	JUICE	NPT Thread Sealant			





5.3. Electrical Components & Related Items

ltem No.	Qty	Part No.	Description	Picture
-	1	320	Momentary Switch, NO	
-	1	N/A	Wire Kit	
-	30 ft	N/A	3/8" Loom Pack	
-	10 ft	N/A	1/4" Loom Pack	Comment

5.4. Mounting Brackets

ltem No.	Qty	Part No.	Description	Picture		
-	1	-	Compressor Bracket			
-	1	-	Module Relocation Bracket			
-	1	-	Tank Bracket			
-	2	-	Tank Strap	S		
-	1	-	Passenger Side Horn Bracket, Front			





-	1	-	Passenger Side Horn Bracket, Rear	
-	1	-	Driver Side Horn Bracket, Front	
-	1	-	Driver Side Horn Bracket, Rear	
-	1	-	Center Horn Bracket	





5.5. Hardware & Related Items

Print out the hardware sheets at the end of this section at 100% Scale to facilitate hardware identification.

ltem No.	Qty	Hardware Size	Description	Picture
H1	4	M10 x 1.5, 100mm Length	Hex Head Bolt	
H2	4	M10 x 1.5	Hex Nut	6
H3	8		Flat Washer	0
H4	4	- M10	Split-Lock Washer	0
H5	6	1/4"-20, 1" Length	Socket Head Cap Screw	
H6	8	4 (41)	SAE Washer	0
H7	6	- 1/4"	Split-Lock Washer	0
H8	4	5/16"-18, 1" Length	Square Neck Carriage Bolt	
H9	4	5/16"-18	Hex Nut	6
H10	4	F (4 C)	SAE Washer	0
H11	4	- 5/16"	Split-Lock Washer	O
H12	6	M8 x 1.25	Hex Nut	6
H13	3	M6 x 1	Nylon Lock Nuts*	





H14	2 ft	-	Narrow U-Strip, Rubber *	
H15	2	1/4"-20	Hex Nut	

*Not Illustrated on the Scale Sheets

ITEM #	QTY	SCALE IMAGE	
Hl	4		
H2	4		
H3	8		
H4	4		
H5	6		
H6	8		
H7	6	\bigcirc	
H8	4		
THE CO SCALE NOT IL THIS DO	IMAGE OMPRES IMAGE LUSTRA	ENT IS DESIGNED TO BE VIEWED / PRINTED AT 100% OR	ISION REVISION D 6/12/202
		PRODUCT GMHD20-734	SCALE HARDWA

ITEM #	QTY	SCALE IMAGE	NOTES
Н9	4		EASILY CONFUSED WITH H12, CHECK THREADS BEFORE INSTALL
H10	4		-
Н11	4	\bigcirc	_
H12	6	\bigcirc	EASILY CONFUSED WITH H9, CHECK THREADS BEFORE INSTALL
H13	3	ITEM NOT ILLUSTRATED	-
H14	2 FT	ITEM NOT ILLUSTRATED	-
H15	2	\bigcirc	-

NOTE:
SCALE IMAGES OF PRE-PACKAGED HARDWARE INCLUDED WITH
THE COMPRESSOR ARE NOT ILLUSTRATED.

SCALE IMAGES OF UNIQUE & EASILY IDENTIFIABLE HARDWARE ARE NOT ILLUSTRATED.

THIS DOCUMENT IS DESIGNED TO BE VIEWED / PRINTED AT 100% OR "ACTUAL SIZE".

REVISION DATE 6/12/2023

	PRODUCT			DWG NO.
Samo.	GMHD20-734		SCALE HARDWARE	
AUTOMOTIVE ACCESSORIES	SCALE: I:I	SHEET	size A	SHEET 2 OF 2

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6. Recommended Routing of Air Tubing & Wire

The below figures are a recommendation of the routing paths for both the air tubing & the wiring. Verify routing paths, wire lengths, & fuse/relay component locations before cutting the included wire. Reference Section 9 (On-Vehicle Electrical Installation) for a detailed electrical connection guide.

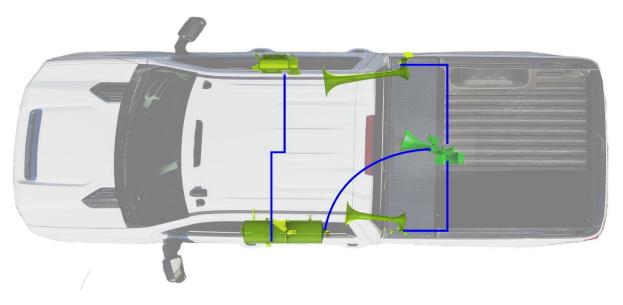


Figure 2- Recommended Air Tubing Routing

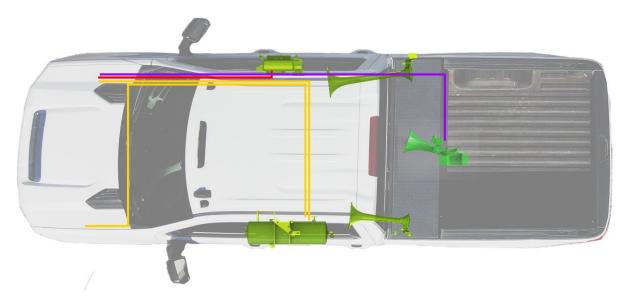


Figure 3- Recommended Electrical Routing (Grounding Points Not Shown)





7. Bench Assembly

7.1. Rubber Trim – Cutting & Installation

1. Cut hardware H14 & run the channel along the curved portions of the tank bracket as shown below.

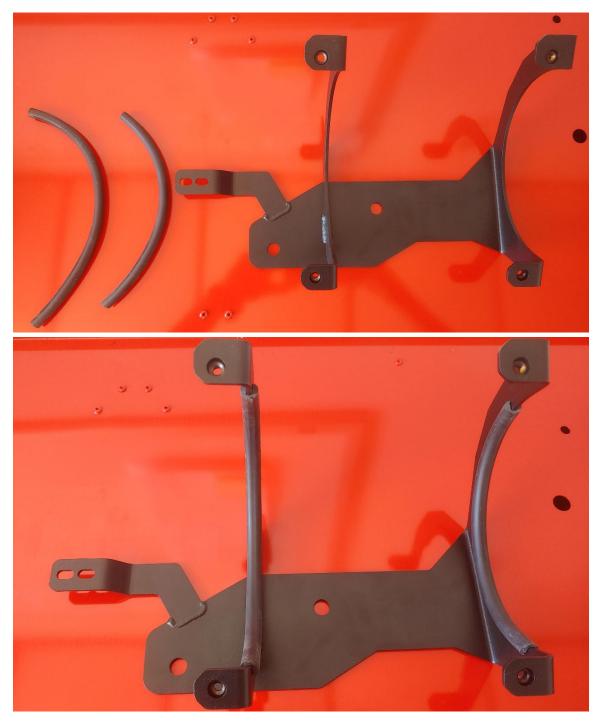


Figure 4- Rubber Trim Installation





7.2. Air Horns – Disassembly & Preparation

- 1. Remove all three (3) air horns form the mounting base.
- 2. Discard the (white) plastic shipping covers on each air horn driver & discard the mounting plate.
- 3. Retain the hardware used to secure the air horns to the mounting plate.
- 4. Detach the air tubing that connects the center horn from the left & right horns.



Figure 5- Air Horn Disassembly & Separation

- 5. Unscrew each trumpet from its respective air horn driver and set aside.
- 6. Completely remove the air tubing from the center horn solenoid assembly



Figure 6- Trumpet Removal & Solenoid Installation

- Using KLEINN JUICE, apply a few drops onto the male threads of the (middle) horn driver and install the solenoid valve (included in the horn box) with the arrow pointing towards the horn driver. Reference the following figure.
- 8. Using KLEINN JUICE, install the included compression fitting onto the other end of the solenoid as shown in the following figure.



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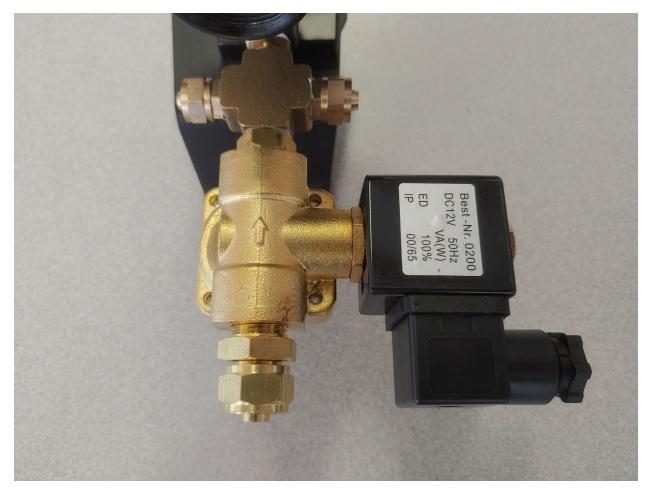


Figure 7- Solenoid Installation (Close Up)

9. Detach & retain the electrical connector for the solenoid as shown below.



Figure 8- Solenoid Electrical Connector Removal





7.3. Air Horns – Bracket Install & Preparation

- 1. Using the retained air horn mounting hardware & Qty 6 of additional hardware, H12, install the air horn drivers to their respective mounting bracket as shown in the below figures.
- 2. Tighten the fasteners snug so the drivers do not move freely but can be adjusted with force.

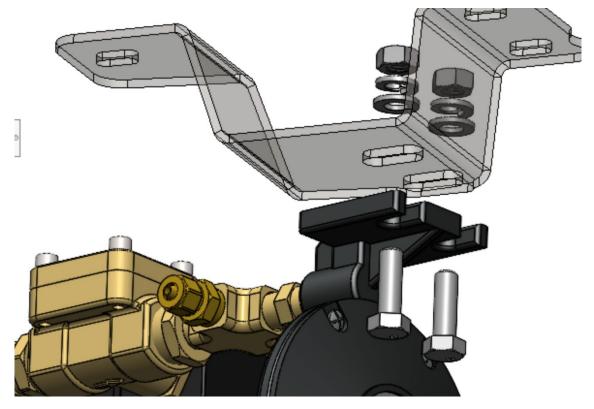


Figure 9- Air Horn Drivers, Hardware Stacking Order



Figure 10- Air Horn Drivers, Bracket Match-Up (Center Horn Bracket, Driver Side Horn Bracket, Passenger Side Horn Bracket)





- 3. Cut the 3/8" air tubing (Item F10) in half to create two (2) 5ft pieces of the tubing.
- 4. Install the cut tubing onto the compression fittings on each side of the horn driver with the solenoid valve.

NOTE: The use of a heat gun is recommended to facilitate pressing the tubing onto the barbed end of the fitting.



Figure 11- Tubing Installation on Solenoid Valve

7.4. Air Tank – Fitting Installation

Using KLEINN Juice, install the associated fittings onto the air tank as shown in the below figures.

Hand tighten the fittings, then further tighten 1/4 - 1/2 turn (or as needed) to match the orientation shown.

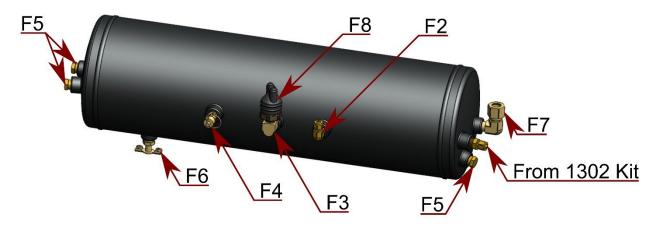


Figure 12- Air Tank Fittings, Orientation & Location





7.5. Compressor – Fitting Installation

1. Using KLEINN Juice, apply 2-3 drops of the thread sealant onto the male threads of the compressor check valve.

NOTE: Ensure the check valve air outlet hole does not get covered by the JUICE.

2. Install & hand tighten fitting F1 onto the threads and tighten 1/4 to 1/2 turn.



Figure 13- Compressor Fitting Installation

- 3. Install the 1/4" air tubing onto the compression fitting.
- 4. Install the inlet filter directly onto the air compressor, or, following the instructions included with the compressor, route & install the snorkel kit as desired.

7.6. INF-1 – Fitting Installation

1. Use a few drops of the KLEINN Juice & install the INF-1 Fittings to the hose as desired.





8. On-Vehicle Assembly

8.1. Air Horn – Driver Side Installation

This air horn in located directly behind the truck bed sidestep. It uses the same bolt holes that are used to secure the step to the vehicle frame (highlighted green).

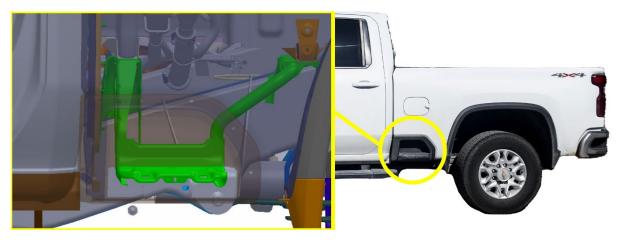


Figure 14- Horn Install Location, Driver Side



Figure 15- Driver Side Horn Bracket, Mounting Points

NOTE: It is advisable when installing the brackets, to install one side at a time, beginning with the frontmost mounting.

1. Remove the two (2) frontmost bolts that are supporting the bed step.





- 2. Slide the Driver Side Horn Bracket (Front) in-between the bed frame & the step bracket.
- 3. Reinstall the two fasteners loosely.



Figure 16- Driver Side Bracket Install, Frontmost Location



4. Repeat steps 1 – 3 with the Driver Side Horn Bracket (Rear) on the rearmost mounting location.

Figure 17- Driver Side Bracket Install, Both Brackets Loosely Mounted



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5. Temporarily install hardware H8 & H9 to allow the bracket to sit mounted properly.



Figure 18- Driver Side Bracket Install, Brackets Temporarily Secured

6. Install the medium length horn trumpet & align the horn so that it does not contact any part of the vehicle frame or body panels.



Figure 19- Trumpet Alignment to Prevent Vehicle Contact





- 7. Fully tighten the air horn driver once final alignment is determined. If unable to tighten in place, proceed with steps 8 10.
- 8. Remove the horn trumpet once alignment is finalized.
- 9. Remove the rear horn bracket & fully tighten the air horn driver to the bracket.
- 10. Reinstall the rear horn bracket.
- 11. Fully connect the two brackets using all the required hardware pieces H8, H10, H11, H9 as shown below.

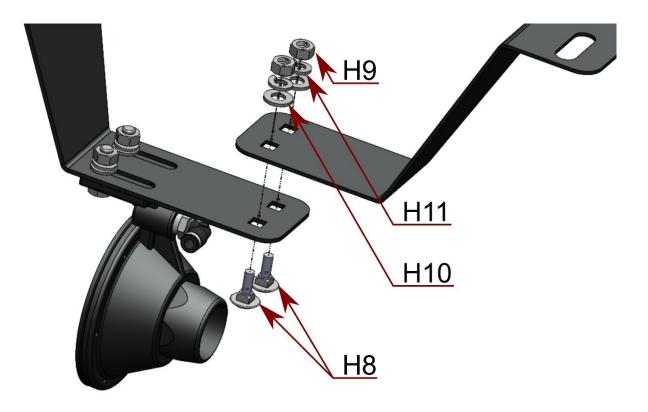


Figure 20- Driver Side Horn Bracket Assembly, Hardware Stacking

12. Fully tighten the four (4) bolts that retain the sidestep & the newly installed air horn brackets.





8.2. Air Horn – Passenger Side Installation

This air horn in located directly behind the truck bed sidestep. It uses the same bolt holes that are used to secure the step to the vehicle frame (highlighted green).

NOTE: The Installation process of the passenger side air horn is the same as the driver side air horn installation. Only the brackets used differ & the longest of the three trumpets is used here.

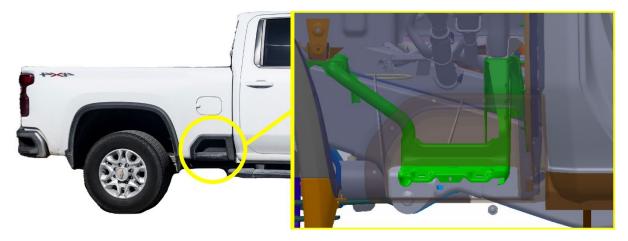


Figure 21- Horn Install Location, Passenger Side

The steps for installation of the passenger side air horn bracket are the same as the driver side bracket. Reference the driver side air horn bracket install steps & the below figures to install the brackets.



Figure 22- Passenger Side Horn Bracket, Mounting Points



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Figure 23- Passenger Side Bracket Install, Brackets Temporarily Secured



Figure 24- Trumpet Alignment to Prevent Vehicle Contact

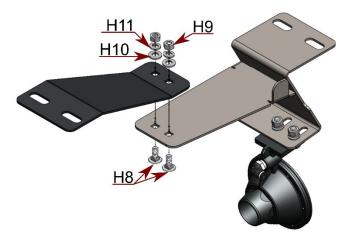


Figure 25- Passenger Side Horn Bracket Assembly, Hardware Stacking

Before proceeding with the installation, ensure all hardware from the driver & passenger horn brackets are fully tightened.





8.3. Air Horn – Center Horn Installation

This air horn in located between the fuel tank & the exhaust pipe, In the center of the vehicle & slightly behind the driver & passenger air horn brackets.

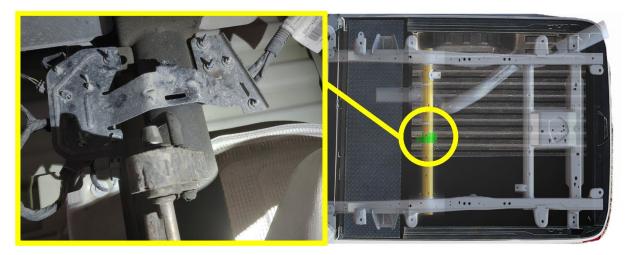


Figure 26- Horn Install Location, Center of Vehicle

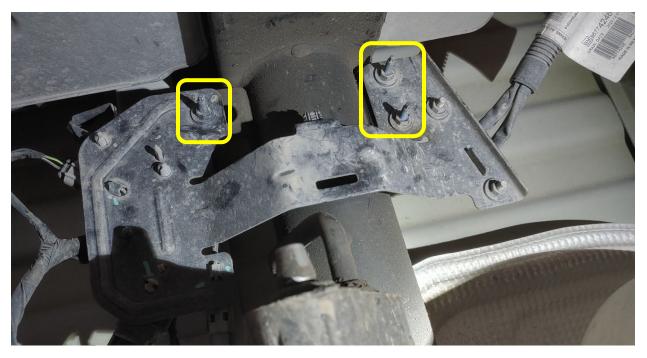


Figure 27- Center Horn Bracket, Mounting Points

- 1. Place the remaining air horn bracket (which has the air solenoid attached) onto the studs illustrated above. Do not remove the OEM nuts from this mounting location.
- 2. Use hardware H13 & hand tighten the hardware to retain the bracket in place, as shown below.



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Figure 28- Center Air Horn Bracket & Driver Temporarily Attached (Shown Without Air Tubing for Clarity)

- 3. Install the small air horn trumpet and adjust the air horn side-to-side to prevent it from hitting any part of the vehicle.
- 4. Remove the trumpet & the bracket.
- 5. Fully tighten the hardware that attaches the air horn driver to the bracket.
- 6. Reinstall the bracket & fully tighten hardware H13.
- 7. Route, trim & attach the air tubing to the driver side & passenger side air horns.

8.4. Compressor Installation

The compressor is located on the passenger side of the vehicle, on the outside frame rail, slightly to the rear of the seam of the front & rear doors.

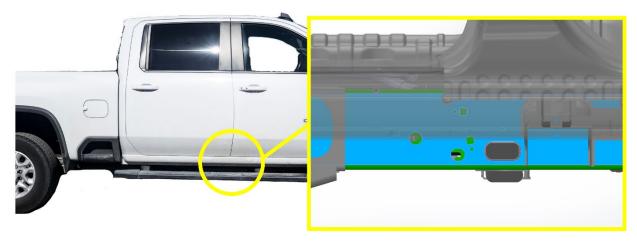


Figure 29- Compressor Install Location, Passenger Side



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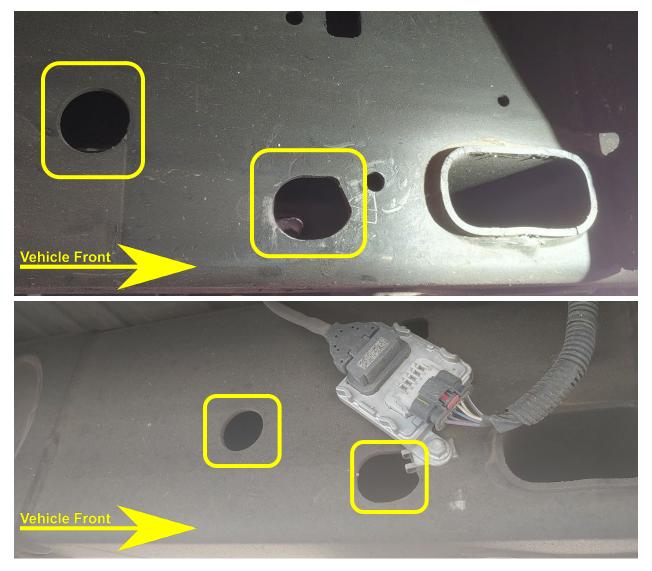


Figure 30- Compressor Bracket, Mounting Points (Above w/o Module, Below w/ Module)

NOTE: If your vehicle has the module that obstructs the compressor bracket location, you will need to use the included module relocation bracket when installing the compressor bracket.

NOTE: The module may appear as the above figure or may be covered with a metal shield

- 1. If required, remove the computer module & the frame mounted U-Nuts from the frame rail.
- 2. If the module is covered by a metal shield, perform the following steps.





- 3. Loosten all four (4) bolts by TURNING THE TAIL TO THE RIGHT. This will allow the bolt to loosen away from the inside of the frame.
- 4. Push up & pull the bracket towards you to remove.



Figure 31- Module Shield Removal 1

5. Remove the bolts completely and detach the shield from the module.

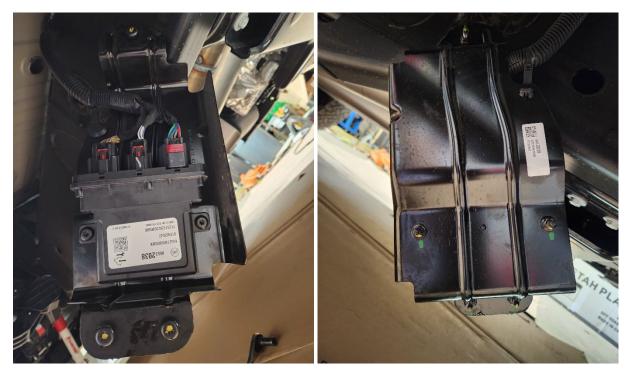


Figure 32- Module Shield Removal 2

NOTE: Proceed to the following installation steps based on Diesel or Gasoline Engines



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For Gasoline Engines Only:

6. Place the compressor bracket onto the correct position on the frame rail and insert hardware H1 through the compressor bracket mounting holes & (if required), through the module relocation bracket as shown below.



Figure 33- Compressor Bracket Installation, Outside Frame Rail

7. Fully secure the bracket into position using hardware in the order H3, H4 & H2. Ensuring the threaded section of the bolts are in the upper-left slot of the frame rail as shown below.

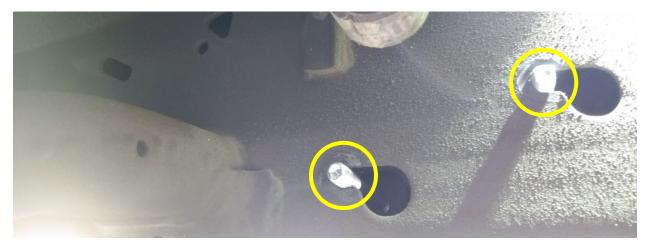


Figure 34- Compressor Bracket Installation, Inside Frame Rail





8. If required, use hardware H5, H6, H7 & H15 to install the computer module onto the Module Relocation Bracket as shown below.

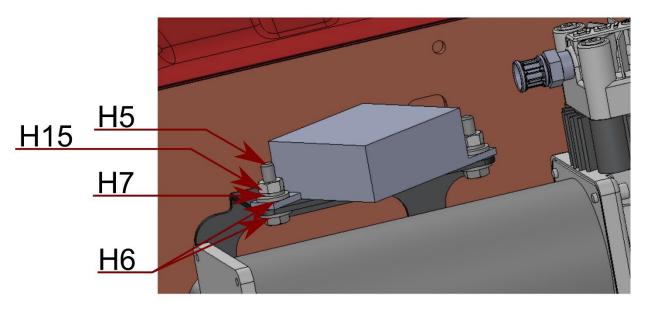


Figure 35- Computer Module, Hardware Stacking Order

- 9. Place the compressor onto the bracket. The compressor head should be towards the vehicle front.
- 10. Use the hardware included in the compressor box & fasten the compressor from the underside of the bracket as shown below.

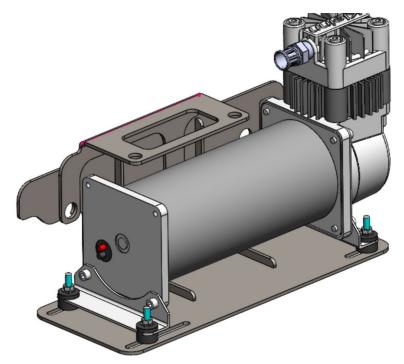


Figure 36- Compressor Mounted, Compressor & Hardware Orientation



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For Diesel Engines Only:

- 2. Remove the crossmember's rightmost bolt that is recessed within the frame rail.
- 3. Place the compressor bracket onto the correct position on the frame rail and insert hardware H1 through the rightmost bracket mounting hole & (if required), through the module relocation bracket as shown below.



Figure 37- Compressor Bracket Installation 1, Diesel

- 4. Allow the bracket(s) to hang & remove the leftmost bolt that is recessed within the frame rail.
- 5. Slide the compressor bracket into position & insert hardware H1 through the leftmost bracket mounting hole & (if required), through the module relocation bracket as shown below.

NOTE: To achieve proper alignment, it may be necessary to slightly lift the wiring loom anchor post if it contacts the compressor bracket.



Figure 38- Compressor Bracket Installation 2, Diesel





6. Fully tighten hardware H1 & (if required), attach the module to the relocation bracket using hardware H5, H6, H7 & H15 as shown in the above Figure 33.

8.5. Tank Installation

The air tank mounts to the outside frame rail (driver side) that is in line with the rear door.

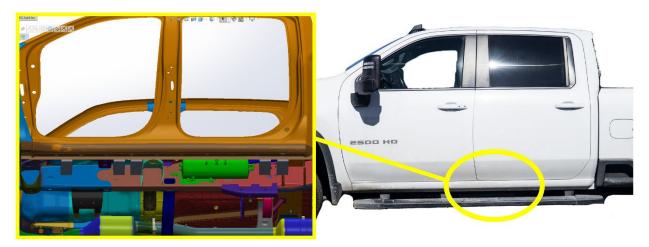


Figure 39- Tank Install Location, Driver Side



Figure 40- Tank Frontmost Bracket, Mounting Point





1. Pry off the electrical connector from the frame rail and move aside to gain access to the tank bracket mounting location shown in the above figure.

For Gasoline Engines Only:

2. Use hardware H1 to place the tank bracket onto the frame rail. Ensure the threaded portion of the bolts are in the upper slots of the frame as shown below.



Figure 41- Tank Bracket Installation, Inside Frame Rail

- 3. Fully secure the bracket into position using hardware H3, H4 & H2,
- 4. Route the connector wiring and secure the connector to one of the slots on the tab of the tank bracket as shown below.



Figure 42- Tank Bracket Installation, Connector Placement



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For Diesel Engines Only:

- 2. Remove the crossmember's leftmost bolt that is recessed within the frame rail.
- 3. Place the tank bracket onto the correct position on the frame rail & insert hardware H1 through the leftmost bracket mounting hole as shown below.



Figure 43- Tank Bracket Installation 1, Diesel

- 4. Fasten the bolt enough to allow the bracket to suspend but still allow for bracket articulation.
- 5. Remove the right side bolt that is recessed within the frame rail, swivel the bracket into place and fasten the bracket using hardware H1 & attach the connector to one of the slots on the tank bracket, as shown in figure 40 above.





8.6. Air Tank Installation

The Air Tank is to be set in place with the 2 plugged ports oriented towards the front of the vehicle & the drain valve directed to the floor.

NOTE: For vehicles equipped with Amp Research PowerSteps, place tank in accordance with SB-001 on the following page.

- 1. Place the tank onto the bracket aligned as shown below & hold it in place.
- 2. Use hardware H5, H6 & H7 to fully secure the tank straps to the bracket as shown below.

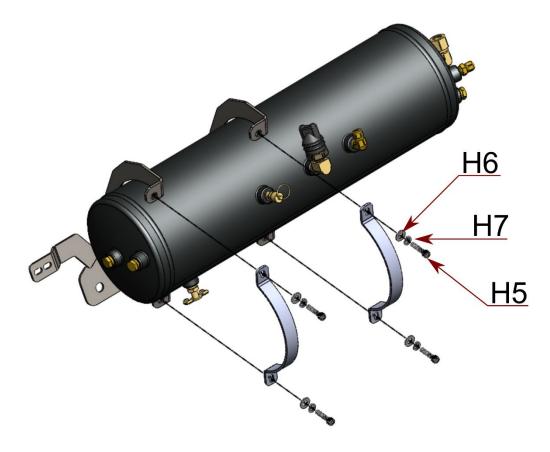
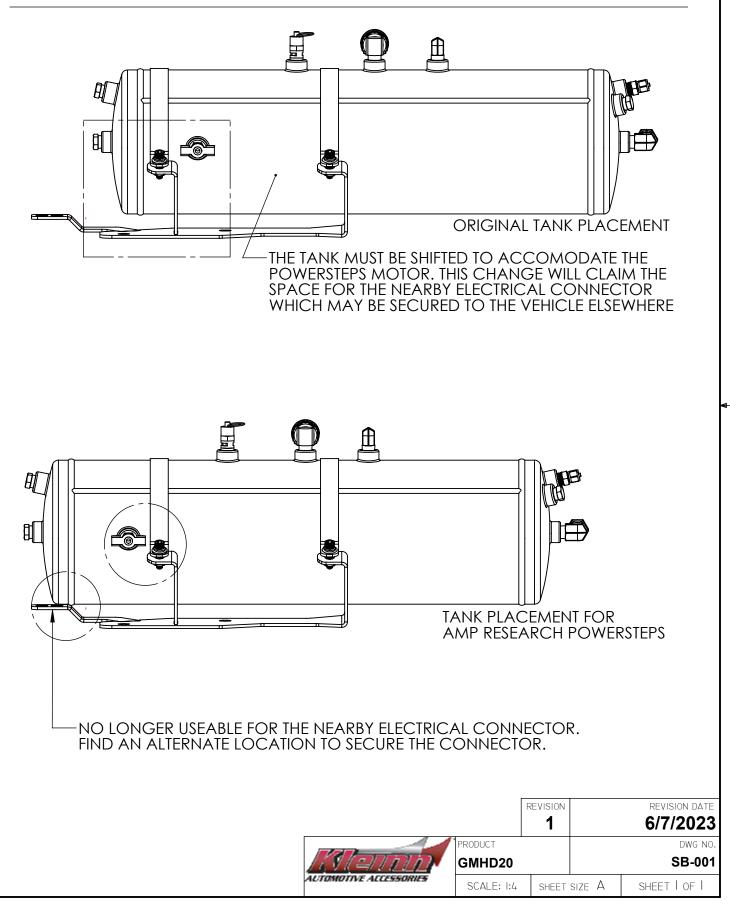


Figure 44- Tank & Tank Strap Installation

MODIFIED TANK PLACEMENT TO ACCOMODATE AMP RESEARCH POWERSTEPS







8.7. 1302 Remote Air Quick Connect

- 1. Install the 1302 quick connect kit in any desired location. Ensure there is a path to route the air tubing from the tank to the 1302 kit.
- 2. Use KLEINN Juice for the NPT threads as needed.

NOTE: Use the exploded view below as a guide when installing the 1302 kit.

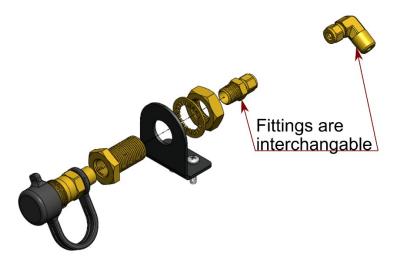


Figure 45- 1302 Quick Connect Kit, Assembly View

8.8. Final System Plumbing

- 1. Using the air tubing included with the air horns, route & connect the tubing between the air tank & the horn solenoid.
- 2. Route & connect the tubing from the compressor to the air tank.
- 3. Using the 1/4" air tubing, route and connect the tank to the 1302 Quick Connect.

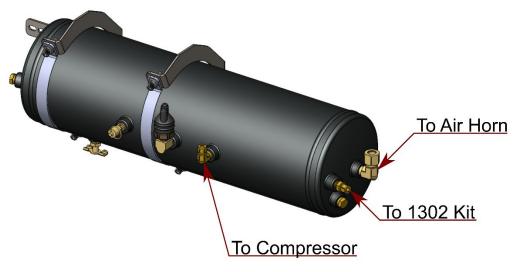


Figure 46- Final Plumbing of Air System

4. Install the air horn trumpets onto the respective horn drivers.





9. On-Vehicle Electrical Installation

It is recommended to disconnect the vehicle battery prior to performing any electrical work.

NOTE: Review this section in its entirety before performing the following steps.

9.1. Solenoid Connector – Reconfigure the Housing & Wiring

To allow for proper fitment, the solenoid connector housing needs to be reconfigured 180°. It must be disassembled and reassembled at the proper orientation.



Original Configuration

Final Configuration

Figure 47- Solenoid Connector, Required Orientation

- 1. If not already detached, remove the electrical connector from the solenoid.
- 2. Remove the rubber boot to expose the separation slot.
- 3. Use a small pry tool to separate the connector from the housing.



Figure 48- Connector / Housing Separation





- 4. Flip the housing over 180°.
- 5. Hookup the Black & Violet wires to the highlighted terminals. Either wire can connect to either terminal.

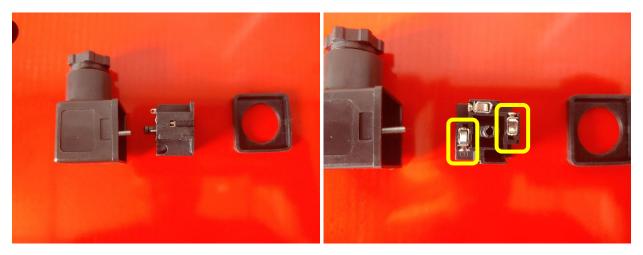


Figure 49- Connector Assembly & Wiring Hookups

- 6. Reassemble the connector.
- 7. Install the connector back onto the solenoid.

NOTE: It is recommended to use the included loom for all wiring applications.

9.2. Attach Relay & Fuse to Vehicle

Locate a suitable location under the hood and install the fuse housing & relay.

- For the Fuse: Select an area close to the POS (+) battery terminal.
- The fuse housing can be attached to the vehicle body panel using the supplied screws.
- The relay can be attached to the vehicle body using the supplied self-tapping screws.

9.3. Install Horn Button

Locate a desirable & accessible location to install the horn button. There should be a minimum of 1" clearance behind the chosen location to allow for the switch to be mounted and wired easily.

Factory upfitter switches may be used at the installers/customers discretion. Consult the owner's manual or OEM documentation if using this option.





9.4. Route Wiring & Make Connections

Route wiring as desired and make the appropriate connections per the below figure. Use the included wiring loom and crimp connectors as desired.

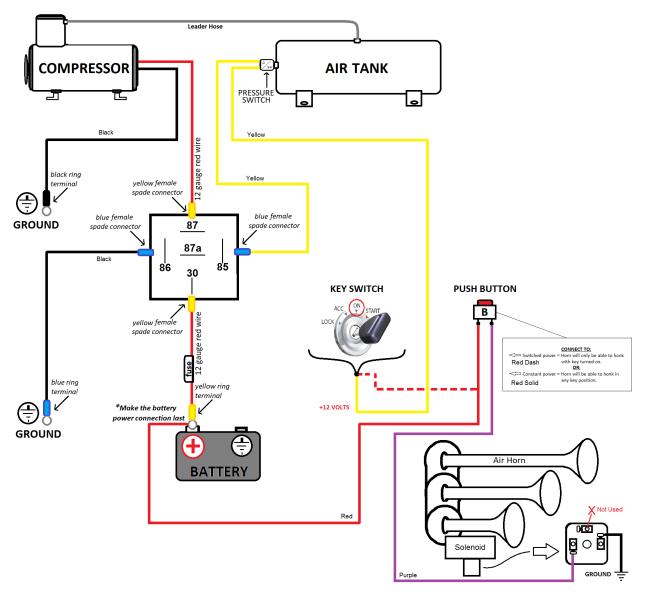


Figure 50- System Wiring Diagram





10. Testing the Air System

It is recommended to check your wiring for shorts & continuity prior to reconnecting the battery.

It is recommended to check the drain valve on the tank and ensure it is fully closed.

10.1. Air Compressor Test

1. Start the vehicle & allow the air compressor to run and fill up the tank.

NOTE: The compressor should turn off after tank reaches \approx 150 PSI. This should take between 2-5 minutes. If the compressor runs excessively, a leak may be present in the system.

- 2. Allow the tank to drain via, the horns (if installed), the Inflator kit, or the tanks drain valve.
- 3. Wait for the compressor to start up again to replenish the air supply.
- 4. Wait for the compressor to turn off when tank is fully pressurized.

10.2. Air Horn Test

Ensure all persons nearby have adequate hearing protection & provide courtesy warning to neighbors before testing the horn system.

<u>!!WARNING!!</u> NEVER operate the air horns with a person's ears near the trumpets or in an enclosed space without SUBSTANTIAL HEARING PROTECTION for all persons closer than 50 feet from the vehicle.!!

1. Activate the air horns by pressing the horn button briefly. Horns should sound as expected and be loud.

The horn sound & loudness will diminish as the air tank loses pressure. Repeat, if desired, until the compressor turns on and begins refilling the air tank.

10.3. Quick Connect Coupler Test

The quick connect coupler can be used to run the included INF-1 tire inflator kit or certain air tools.

- 1. If needed, allow the air compressor to refill the air tank.
- 2. Attach the INF-1 inflator kit and inflate tires.
- 3. Optionally, an air blow gun or other air tool can be used to test the quick connect coupling.





11. Maintenance

!!WARNING!! Operating the air compressor above it maximum pressure rating may damage the internal components and/or cause unsafe system conditions. It is recommended not to exceed 150 PSI pressure in the system.!!

This air compressor is equipped with automatic thermal overload protection. If thermal overload is triggered, the safety circuit will reset after 30 minutes.

This air compressor is oil-less, never lubricate or add liquids to this compressor.

Monthly or every 10 Hours of Compressor Use:

• Drain the moisture from the air tank via the tanks drain valve.

Yearly or 12,000 Miles

- Replace the compressors air filter element. Replacement frequency depends on operating & environmental conditions.
- Remove road grime or mud from components & brackets.
- Inspect all mounting fasteners to ensure they remain secure. Tighten as needed.
- Inspect electrical connections & loom for damage. Repair/Replace as needed.





12. Warranty Information

Thank you for purchasing this Air System. If you experience any unexpected problems during installation, or part failure at any time, please contact KLEINN Support.

KLEINN MANUFACTURER LIMITED DEFECT WARRANTY:

Kleinn Automotive Accessories warrants this product to the end-user, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from the provided date of purchase to the original purchaser of the product. This warranty does not cover abuse, operation in a manner inconsistent with the product's design, or damage resulting from exposure to the elements. If the defect is considered "under warranty", Kleinn will, at its option, repair or replace the product free of charge to the original purchaser. Kleinn is not liable for any installation charges, loss or damage of any kind incurred in the replacement or repair of any warranted product.

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Record of Revisions

Revision	Description	Date	Approval
Beta	Beta Launch Development	04/27/2023	AG
Beta 1.1	Updated Application Chart, Section 1.2 – Incompatible Vehicle Features & Packages Updated Application Chart, Section 1.3 – Aftermarket Product Compatibility	05/04/2023	AG
A	Updated Application Chart, Section 1.3 – Aftermarket Product Compatibility Updated Figure 6 Added Section 7.5, Step #4 Added verbiage regarding trumpet length to Section 8.1 & 8.2 Added clarification to Section 8.3, Step #1 regarding OEM hardware removal Added clarification to Section 8.4 & 8.5 "Diesel Engine" section regarding OEM hardware removal	06/08/2023	AG
В	Updated logo Updated color scheme Added steps 2-5 on pg 30 -removal of electronic module shield Added figures 31 & 32	4/11/2024	AG