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2 How to Use This Manual

2.1 Interactive Manual Using Adobe Reader

It is recommended to open this digital PDF using Adobe Reader® to take advantage of following key features:

- **Hyperlinks** ([blue underlined text](#)) allow access to additional content via internet; click/tap to activate. Hyperlinks also allow users to jump to specific spots in within the document.
 - Includes [Installation Figures](#) and “[Figure xx](#)”
- **Table of Contents** page allows easily navigating this manual; click/tap any section line to go to it
- **Bookmarks** allow quick navigation to any section; click/tap
- **Zoom IN** on pictures by pressing “CTRL and +” at same time on PC, or pinch in on smart devices
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- Visit <https://get.adobe.com/reader/otherversions/>

2.2 Your SKU Number & this Manual

This manual covers installation, testing, and operation of following SKU part numbers

2.2.1 GMTRK-1

NOTE: Illustrations and pictures contained herein may represent only one kit part number. Where critical differences exist between kits, (i.e., different parts, orientation, mounting points, etc.) additional text, or necessary graphics are provided to minimize confusion.

Parts list explicitly state kit differences with **(BOLD TEXT)** inside parenthesis, shown below part number

2.3 Illustration/Photo Details & Orientation

This manual may use digitally created illustrations and/or actual photos of example vehicle. These graphics may not include exact items found on your vehicle (i.e., electrical wiring, fuel lines, body panels, etc.). Illustrations typically will be missing details and are for clarity to show critical mounting locations and orientation on vehicle.



Throughout the manual, yellow arrows with text reading “FRONT” may be present over illustrations and pictures. These arrows specify direction toward the front of the vehicle and provide clarity as to how illustration is viewed.

END OF SECTION



3 Safety First

Read manual thoroughly before starting installation of this kit. Verify that you have all parts listed, and that you clearly understand the installation procedure. Contact Kleinn technical support with any questions.

Installation of this kit requires **moderate mechanical aptitude**; seek professional help if you're not competent using hand tools in tight uncomfortable spaces and around possibly rusted and sharp vehicle parts.

Before starting, obtain proper tools required to perform installation correctly, adequate lighting, eye protection, hearing protection, (for operating train horns) and hand protection to guard against sharp edges and metal burrs which may be present on kit parts and/or vehicle parts.

Throughout this manual the following words may be used; be aware of their meaning and application.

CAUTION: means damage could occur to vehicle or kit parts during or after installation.

WARNING: means injury could occur to you or others, including damage to vehicle or kit parts.

DANGER: means serious injury or death could occur to you or others during installation.

END OF SECTION



4 Application Chart

4.1 Bolt-On Vehicle List

GMTRK-1 is a direct bolt-on aftermarket product for GM vehicles listed in the below chart. Every effort has been made to verify correct fitment on these vehicles in their factory, non-modified conditions.

MODEL YEAR	MODEL	DRIVE	ENGINE	BODY	TRIM
CHEVROLET					
2007-2013	AVALANCHE	ALL	ALL	ALL	ALL**
2007.5-2018	SILVERADO 1500	ALL	ALL	ALL	ALL**
2007-2020	SUBURBAN	ALL	ALL	ALL	ALL**
2007-2020	TAHOE	ALL	ALL	ALL	ALL**
GMC					
2007.5-2018	SIERRA 1500	ALL	ALL	ALL	ALL**
2007-2020	YUKON	ALL	ALL	ALL	ALL**
2007-2020	YUKON XL	ALL	ALL	ALL	ALL**
CADILLAC					
2007-2020	ESCALADE	ALL	ALL	ALL	ALL**
2007-2020	ESCALADE ESV	ALL	ALL	ALL	ALL**
2007-2013	ESCALADE EXT	ALL	ALL	ALL	ALL**

NOTE: All vehicles listed may require drilling holes for ground wires, installing switches, and running wires, based on your preference of installed switch locations and wire grounding points.

4.2 Excluded Vehicles

The following vehicles have been found to be **incompatible** with the designed kit:

- **Any vehicle with a trim package that includes a 2nd factory battery.**

4.3 Aftermarket Product Compatibility

This kit has been designed to work with the following aftermarket products:

- Most aftermarket suspension systems that use original upper control arms/links
- Aftermarket power steps, side steps, etc.

This kit has **not** been designed to work with the following aftermarket products:

- Winches
- Custom front and rear bumpers
- Suspension systems with front mounted skid plates
- Under hood performance parts that occupy space of 2nd Battery



NOTE: Review this manual in full before unpacking items to verify correct space and mounting locations exist with your aftermarket product(s). *To install this kit alongside your other aftermarket product(s), modification to the included parts, your vehicle, or your aftermarket product(s) may be required.*

END OF SECTION



5 Installation Overview

5.1 Kit Layout & System Location(s)

GMTRK-1 consists of the following components, located on vehicle as follows:

ITEM	DESCRIPTION	VEHICLE LOCATION	MOUNTING METHOD	APROX. INSTALL TIME
1	6270RC Air Compressor	Under hood, Driver's Side (2 nd battery tray)	Bracket bolts onto OE 2nd Battery Tray	1-2 hours
2	6270RT 1 Gal. Air Tank	Under hood, Driver's Side (2 nd battery tray)	Bracket bolts onto OE 2nd Battery Tray	1-2 hours
3	220 Series Dual Horns	Underbody, between frame rails (behind bumper)	Bracket bolts onto OE Engine Guard	1-2 hours



Figure 1: Kit Layout (2013 Tahoe Shown)

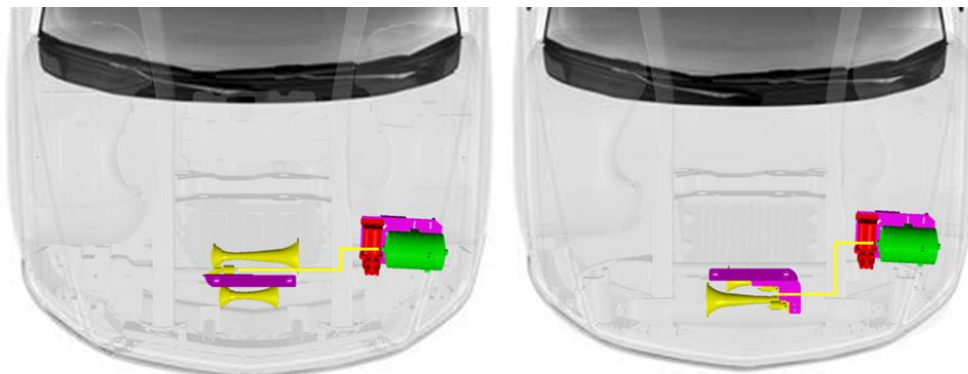


Figure 2: Horn Layout Comparison (2015 Tahoe on left, 2013 Tahoe on right)



5.2 Install Process Outline

For person(s) with prior experience installing GMTRK-1, a reminder of the install steps is provided below:

UNPACKAGE KIT (SECTION 7)

1. Layout & Organize All Parts

BENCH ASSEMBLY (SECTION 8)

2. Determine Your Install Type
3. Assemble Horns to Bracket
4. Assemble Compressor & Tank to Bracket

ON-VEHICLE MECHANICAL ASSEMBLY (SECTION 9)

5. Prepare 2nd Battery Tray for Bracket Mounting
6. Install Compressor and Tank
7. Install Horns

ON-VEHICLE ELECTRICAL ASSEMBLY (SECTION 10)

8. Install Relay & Fuse, Route Wiring, & Install Horn Button
9. Connect All Electrical Items (Air Horn(s), Pressure Switch, Air Compressor)

FINAL STEPS (SECTION 11)

10. Test System & Adjust as Needed

5.3 Approximate Installation Time

GMTRK-1 is a multi-faceted product consisting of mechanical, electrical, and pneumatic components.

For a typical home mechanic, auto enthusiast, or technician installing this kit for first time; a professional installation job with setup and testing of final product, is estimated to take:

- **4-8 hours**

END OF SECTION



6 List of Tools & Supplies

6.1 Standard Tool List (Required)

1. Basic mechanic's 3/8" drive socket sets with extensions
 - Inch size sockets (1/4" – 1")
 - Metric size sockets (6mm – 20mm)
2. Basic mechanic's combination wrenches (box/open-end)
 - Inch size sockets(1/4" – 1")
 - Metric size sockets (6mm – 20mm)
3. Basic mechanic's screwdriver set (Philips, Flat Head)
4. Torx driver, or socket set (T30-T50)
5. Diagonal cutter/wire cutter pliers
6. Wire strippers
7. Wire terminal crimpers
8. Slip-joint pliers
9. Vise grips or locking pliers
10. Utility knife or utility razor blade
11. Magnetic retrieval tool

6.2 Special Tool List (Recommended)

1. Power Drill. Right-angle drill (close quarters) beneficial
2. 3/16" metal-cutting drill bit (2" long minimum)
3. 5/16" metal-cutting drill bit (2" long minimum), or stepper-bit
4. 10-100 ft.-lbs. torque wrench
5. 20-150 in.-lbs. torque wrench
6. Multi-meter for 12V DC electrical systems or equivalent
7. 12V DC test Light or equivalent
8. Trim panel tool, for removing wiring and body clips, when needed

6.3 Shop Consumables List (Recommended)

1. Quality electrical tape
2. Di-electric grease for electrical connections
3. Heat shrink tubing for electrical connections
4. Medium-strength thread-locker (i.e., Blue Loctite® PN 242) or equivalent
5. Low-strength thread-locker (i.e., Purple Loctite® PN 222) or equivalent
6. Black/Clear silicone for drilling holes in body
7. Sandpaper or wire brushes for installing ground wires
8. Extra plastic zip ties > 6" long
9. Extra NPT sealant (i.e., Kleinn Air Horn Juice, Teflon tape, etc.)
10. Touch-up paint for frame/chassis/body (i.e., primer or black epoxy)
11. Typical cleanup supplies

END OF SECTION



7 Parts List




7.1 Review Parts List

Unpackage and organize kit across a large work area and verify all parts are included, as listed below. Contact Kleinn support with any questions.

1. Review pre-packaged kit items (K_)
2. Review Air Fittings and Tubing (F_)
3. Review Wiring and Accessories (E_)
4. Review Bolt-On Mounting Brackets (C_)
5. Review Hardware/Fasteners (H_)
6. Review Add-On Accessories (X_)
7. Familiarize yourself with how the parts assemble

7.2 Pre-Packaged Electromechanical Kit Items

NOTE: Items in this section come in their own packages and may include additional items inside package.

ITEM	QTY	PART NUMBER	DESCRIPTION	PICTURE
K1	1	6270RC	6270RC AIR COMPRESSOR KIT – INCLUDES HARDWARE, REMOTE AIR FILTER, AIR TUBING, FITTINGS, EXTRA FILTER	
K2	1	6270RT	AIR TANK, 6" OD, 1 GAL., 5-PORT	
K3	1	220	220 SERIES AIR HORN KIT – INCLUDES DUAL SOLENOIDS, HARDWARE, AIR TUBING, TEE FITTING	






7.3 Air Fittings & Related Items



ITEM	QTY	PART NUMBER	DESCRIPTION	PICTURE
F1	1	2131	1/4" NPT PRESSURE SWITCH, 80-130 PSI	
F2	1	52155	1/4" NPT, 155 PSI SAFETY VALVE	
F3	2	51414L	1/4" NPT X 1/4" TUBE FITTING, MALE, 90° ELBOW	
F4	2	51414NPTL	1/4" NPT X 1/4" NPT FEMALE, 90° ELBOW	
F5	1	52835	1/4" NPT DRAIN VALVE	
F6	1	25014-1	1/4" AIR TUBING	
F7	1	KLEINN AIR HORN JUICE	THREAD SEALANT FOR NPT FITTINGS	



7.4 Electrical Components & Related Items




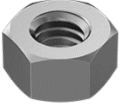



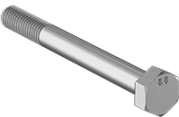

ITEM	QTY	PART NUMBER	DESCRIPTION	PICTURE
E1	1	6850 WIRE KIT	FULL WIRE KIT, WITH ELECTRICAL CONNECTORS AND ZIPTIES	
E2	1	LOOM PACK	1/8" & 1/4" WIRE LOOM, CORRUGATED AND SPLIT	
E3	1	318	BLACK REMOTE HORN BUTTON	

7.5 Mounting Brackets & Special Hardware

ITEM	QTY	PART NUMBER	DESCRIPTION	PICTURE
C1	1	GMTRK-1-101	COMPRESSOR & HORN BRACKET, CUT & FORMED	
C2	1	GMTRK-1-301	HORN BRACKET, WELDMENT	



7.6 Hardware, Fasteners, & Soft Parts

ITEM	QTY	PART NUMBER	DESCRIPTION	PICTURE
H1	2		7/16" -14 x 1.25" SQUARE NECK BOLT	
H2	2		7/16" LOCK WASHER	
H3	2		7/16" FLAT WASHER	
H4	2		7/16" -14 HEX NUT	
H5	2		1/2" FLAT WASHER	
H6	2		M10-1.5 x 45mm BOLT	
H7	2		M10 FLAT WASHER	
H8	4		M6-1.0 x 60mm BOLT	
H9	4		M6 FLAT WASHER	

END OF SECTION



8 Bench Assembly

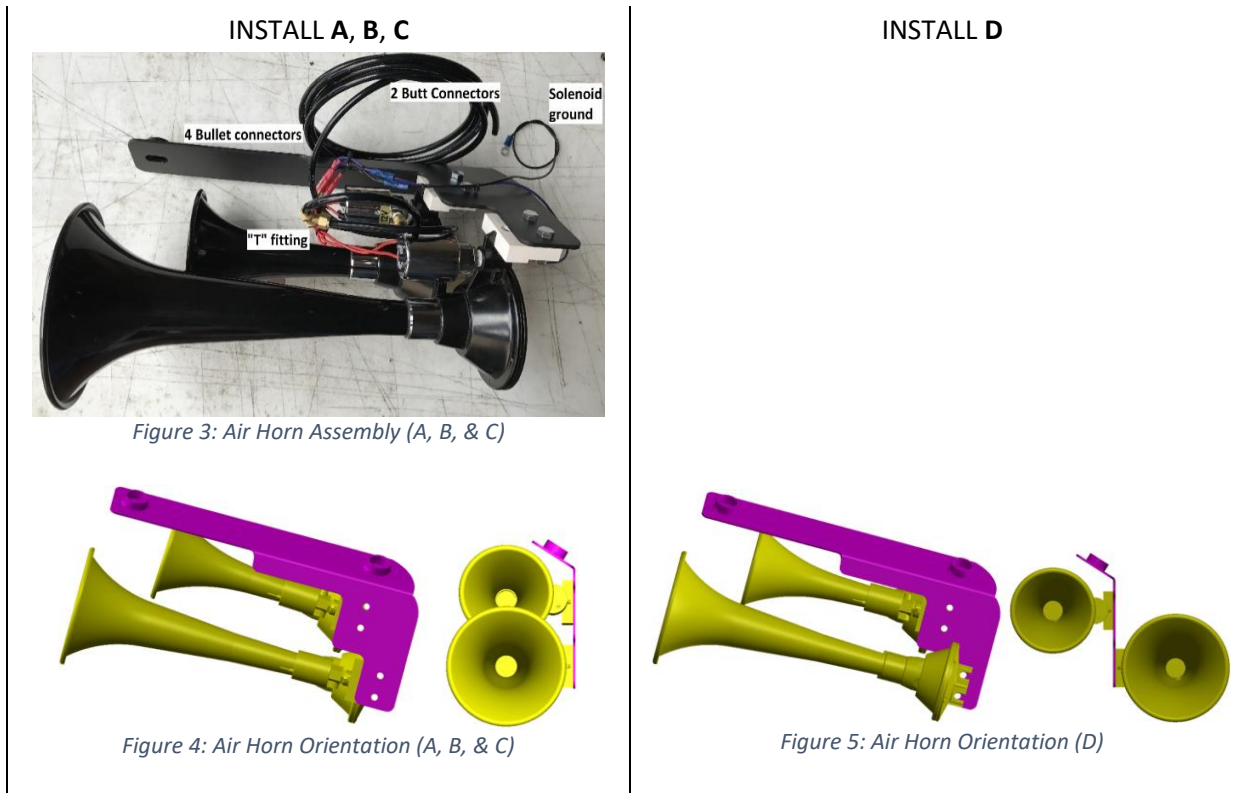
Complete the following steps off of the vehicle to prepare for final installation.

8.1 Determine Installation Type

INSTALL TYPE	Model Year			Vehicle Type
A	2007.5	-	2013	Truck
B	2014	-	2018	Truck
C	2007	-	2014	SUV
D	2015	-	2020	SUV

8.2 Assemble Horns to Bracket (GMTRK-1-301) & Wire Horns

1. Use hardware included inside the 220 horn package to attach the horns to the horn bracket (C2) and wire, as shown below.
2. Use the supplied bullet connectors for each solenoid connection, merging 2 wires into 1.
3. Connect the "T" fitting to the horns using 2 short pieces of airline





8.3 Assemble Air Fittings to Air Tank

1. Gather all necessary air fittings and the air tank. Ensure all threads on fittings and inside ports are clean.
2. Apply two small drops of Kleinn Air Horn Juice to each male pipe thread and let dry before inserting.
3. Attach air fittings to the air tank, per illustrations below. Hand-tighten each fitting, then further tighten 1/4-1/2 turn using wrench. Adjust as necessary to match fitting orientation.

INSTALL A & C

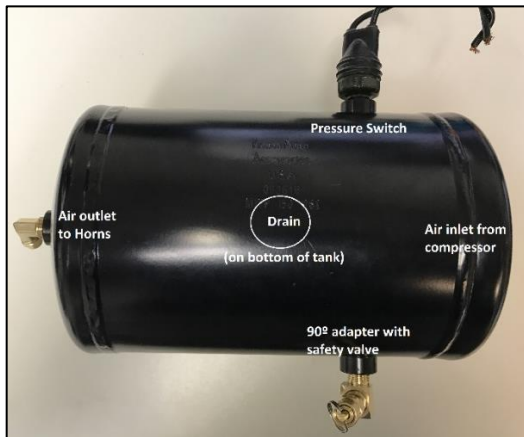


Figure 6: Air Tank Fittings (A & C)

INSTALL B & D



Figure 7: Air Tank Fittings (B & D)

4. Connect one end of the air hose to the compression fitting. (this will be routed to the air horns later)



8.4 Assemble Tank & Compressor to Bracket (GMTRK-1-101)

1. Use the hardware supplied with the compressor to mount the compressor to the bracket ([C1](#)), using holes shown.
2. Attach the compressor's leader hose to the air tank 90° fitting. **DO NOT OVERTIGHTEN CHECK VALVE** when tightening leader hose. Use supplied thread sealant, tighten by hand, then use wrench to tighten 1/4-1/2 turn to seat.
3. Use hardware [H1](#), [H2](#), [H3](#), & [H4](#) to mount the air tank to the bracket, using holes shown.

INSTALL A & C

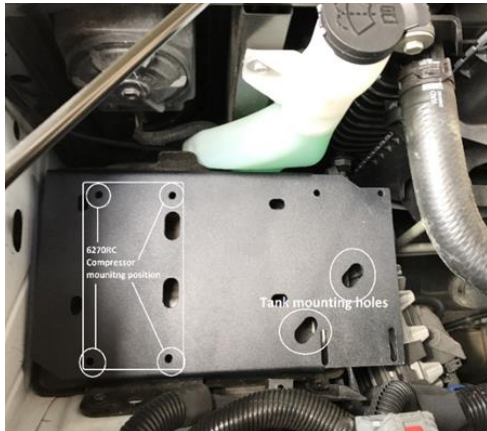


Figure 8: Mounting Bracket (A & C)

INSTALL B & D

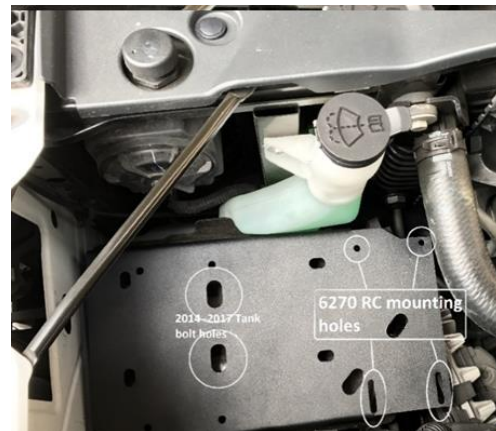


Figure 9: Mounting Bracket (B & D)



9 On-Vehicle Mechanical Assembly

Complete the following steps on-vehicle. Using a lift, vehicle ramps, or other safe lifting method as necessary.

DANGER: Follow all manufacturer's instructions for safely lifting vehicle; reference owner's manual.

9.1 Prepare 2nd Battery Tray for Bracket Installation

1. Remove 4 factory bolts from the bottom of the battery tray. These will be replaced by supplied bolts.
2. Ground point shown. Use factory bolt for battery tie down. Remove all paint/dire where ground attaches.

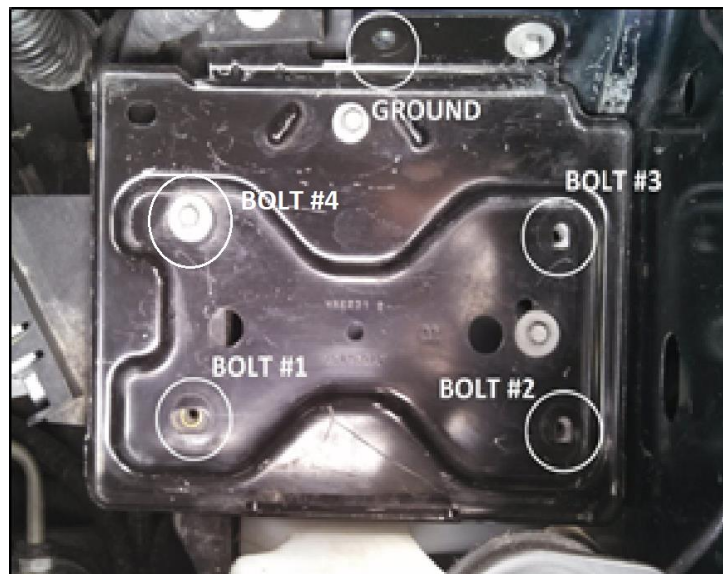


Figure 10: OE 2nd Battery Tray Bolt Removal

9.2 Install Compressor & Tank

1. With all components mounted, place the assembly onto the battery tray. Route the airline and horn activation wire down past (behind) the headlight to the lower bumper area.
NOTE: To make this easier, pull back the upper coolant hose (while cool) and then shift the battery tray back and forth into its final mounting position.

INSTALL A & C



Figure 11: Air Compressor & Tank Install (A & C)

INSTALL B & D



Figure 12: Air Compressor & Tank Install (B & D)

2. Use hardware [H8](#) & [H9](#) to secure the assembly to the battery tray.
3. Attach remote air filter to the barbed fitting on the air compressor and mount the filter as desired. See instructions in air compressor box.

9.3 Install Horns

1. Remove the front 2 factory engine shield bolts and attach the air horn assembly using [H6](#) and [H7](#).

INSTALL A, B, & C

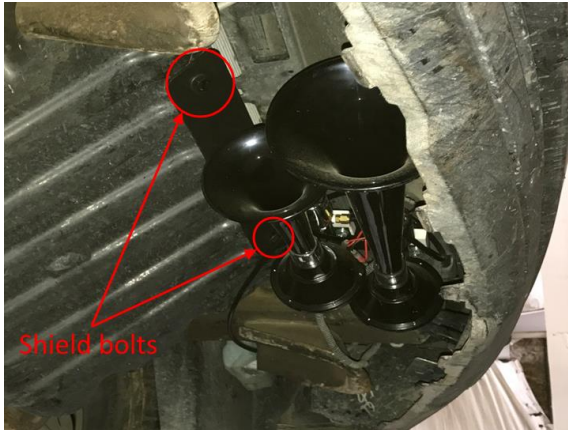


Figure 13: Engine Shield Bolts (A, B, & C)
(2013 Sierra 1500 shown)



Figure 15: Air Horn Orientation (A, B, & C)
(2013 Sierra 1500 shown)

INSTALL D



Figure 14: Engine Shield Bolts (D) (2020 Tahoe Shown)

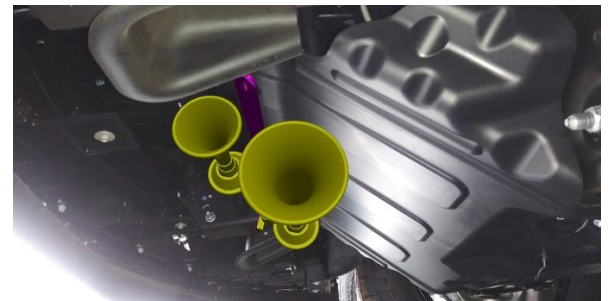


Figure 16: Air Horn Orientation (D) (2020 Tahoe Shown)

2. Ground the air horns to the vehicle using the supplied self-tapping screw.

END OF SECTION



10 On-Vehicle Electrical Installation

CAUTION: Follow all recommended safety precautions for working on vehicle's electrical system; consult vehicle owner's manual for further instruction.

10.1 Relay & Fuse Diagram for Air Horn System

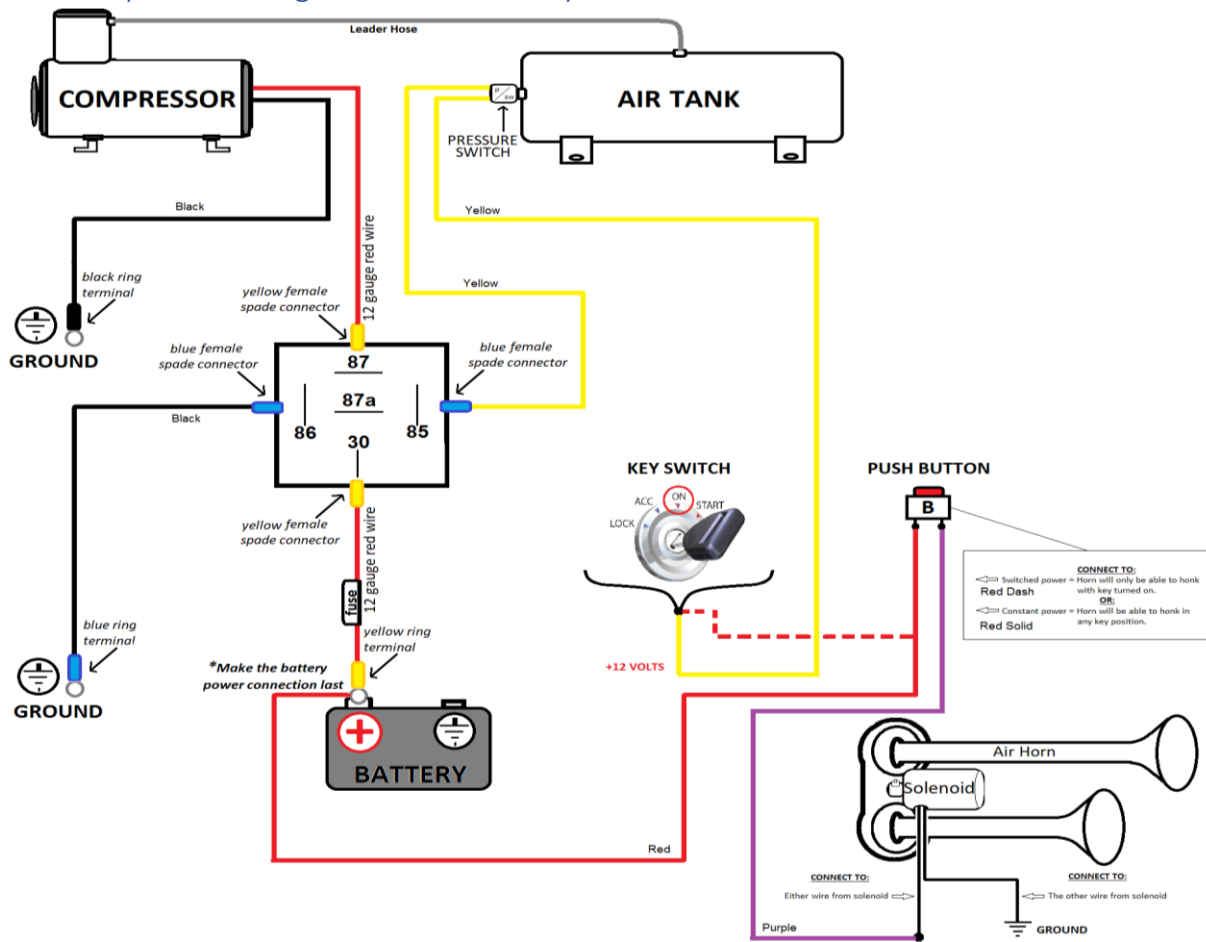


Figure 17: Suggested Ignition Relay Diagram for Air Horn System

<p>PRESSURE SWITCH (either wire can go to Relay or Ignition)</p>			<p>AIR HORN SOLENOID (either wire can be PWR or GND)</p>
--	--	--	--

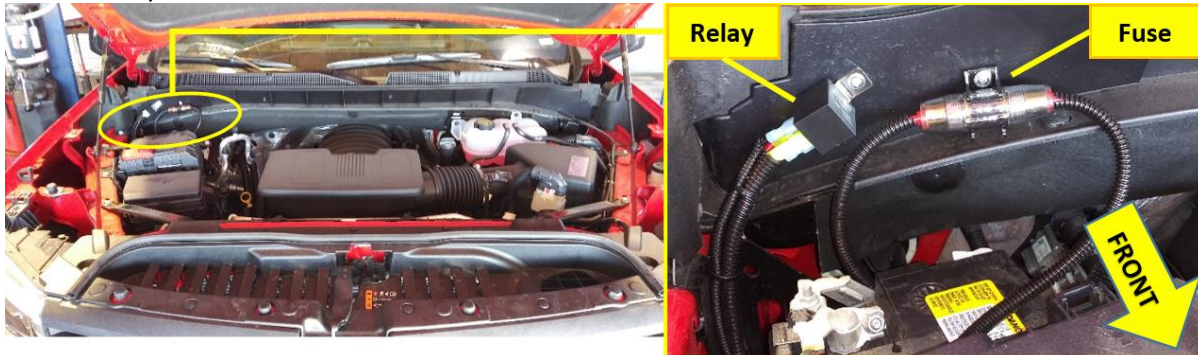


10.2 Disconnect Vehicle Battery(s)

1. Consult owner's manual.

10.3 Connect Wires to Fuse & Relay

1. Find a suitable location for supplied fuse and relay. Shown below is an example location under the hood, next to the battery, mounted on the firewall. Use supplied self-tapping screws, as necessary.



(example image)

2. Install the supplied fuse holder on one end of power wire by cutting the loop in fuse holder and connecting supplied Ring terminal to one end and butt connector on the other end.
3. **CAUTION:** Do not install 30-amp fuse until all electrical connections are final.

10.4 Install Horn Button

1. Find a suitable location for the horn button (i.e., in dash, center console, etc.). Verify location has at least 1" of clearance behind for terminal connectors. Mark location for drilling.
2. Drill a 3/4" hole in this location. Route the horn button wires to the hole, then slide push-button retaining nut over wires and connect wiring. Install the button into the hole and tighten the retaining nut from the backside.



Figure 18: Horn Button Installed in Dash



Figure 19: OE Upfitter Switches

NOTE: FOR VEHICLES WITH OE/FACTORY UPFITTER SWITCHES:

If your vehicle is equipped with factory upfitter (i.e., auxiliary) switches, you may elect to use one of them for your Kleinn Air Horn kit. Consult your owner's manual, or dealership, for further instructions on what wire terminals/fuse block location to use and what programming may be required.

10.5 Connect Pressure Switch

1. Route wiring, as desired, to the air tank and connect to the pressure switch, per wiring diagram.
NOTE: Either pressure switch wire can be connected to relay or ignition; they are identical.

10.6 Connect Air Compressor

1. Route wiring, as desired, to the air compressor and connect, per wiring diagram.

10.7 Connect Air Horn Solenoid(s)

1. Route wiring, as desired, to the air horns and connect to the solenoid(s), per wiring diagram.
NOTE: Either air solenoid wire can be connected to power (PWR) or ground (GND); they are identical.

10.8 Secure Wiring to Vehicle

1. Insert all wiring into included wire loom and ensure loom is away from all sharp edges, hot/moving vehicle parts, (i.e., exhaust, engine, radiator) and fasten securely to vehicle using supplied zip ties or equivalent.

END OF SECTION

11 Final Steps & Testing

11.1 Reconnect Vehicle Battery(s)

CAUTION: Before connecting the vehicle battery(s), verify all wiring is properly connected and no shorts exists. Use of Multi-meter, or test light is recommended to check continuity of all connections.

11.2 Test Air Compressor

1. Turn the vehicle ignition to the *ON* position and allow the compressor to fill the air tank. Initial fill may take approximately 1.5-3 minutes. The air compressor should shut off automatically once full pressure is achieved.
2. If the compressor runs excessively, (i.e., 5 minutes or more) disconnect electrical power to the air compressor and listen for air leaks in system. Repair any problems and retest. Contact Kleinn technical support if problems persist.
3. Inspect all air line connections (i.e., air tank fittings, quick connect fittings, air horn fittings, etc.) for leaks by using a soap and water solution sprayed directly onto fittings.
4. System must be pressurized, or at least the air compressor must be running.
5. If an air leak is found:
6. Safely release air pressure from system (i.e., slowly open drain valve).
7. Disassemble leaky connection, re-seal and reinstall fittings as needed.

11.3 Test Train Horns

1. Allow the air compressor to run and shut-off automatically (i.e., air tank is full)
2. Verify all tubing and electrical wires are securely fastened to the vehicle, brackets, or kit parts. If necessary, use extra zip ties to hold tubing and wire in place.
3. Ensure all nearby persons have adequate hearing protection and provide courtesy warning to neighbors or others in vicinity.

WARNING: NEVER operate train horns with ears close to trumpets or in an enclosed space without [substantial hearing protection](#) (i.e., > Ear Plugs and Earmuffs) for all persons closer than 100 feet from vehicle. Never

operate train horns outdoors when persons are near vehicle without adequate hearing protection.

4. Briefly activate the horns by pressing the horn button for one (1) second. Repeat three (3) times with a short rest period between (i.e., 1-3 seconds).
5. Horns should sound as expected and be loud. [click to listen to example 230 Kit](#)
6. Horn sound/loudness will taper quickly as the air tank pressure decreases.
7. Allow the air compressor to refill the tank, if needed, and activate the horns for three (3) second period to ensure the horns are functioning properly.

11.4 Test Quick Connect Coupler

1. Allow the air compressor to refill the tank, if needed.
2. Attach the supplied INF-1 inflator kit to the quick connect coupler and verify adequate air pressure is available
3. Test fill tires on vehicle, bicycle, etc.
4. Test air blow gun
5. Test air impact gun

END OF SECTION



12 General Operation

12.1 Compressor Operation

WARNING: NEVER operate the air compressor above its MAXIMUM PRESSURE RATING (see label on body). Operation exceeding maximum pressure will damage the compressor and potentially cause air system failure.

1. Kleinn's oil-less compressor is equipped with an automatic thermal overload protection circuit designed to protect the air compressor from overheating and causing permanent damage.
2. Automatic thermal overload protector will reset after 30 minutes.
3. To prevent discharge of the vehicle's battery, and for best performance, keep the vehicle's engine running while using the air compressor for any prolonged use (i.e., filling tires, using air tools, etc.).

12.2 Horn Operation

1. Allow the air compressor to run until it shuts off automatically, (i.e., air tank is full) or for at least one minute between horn activations.
2. Press the horn button to activate the horns
3. Horn sound/loudness will taper quickly as the air tank pressure decreases.
4. Horns should sound for 3-7 seconds depending on kit and tank size.

WARNING: NEVER operate train horns with ears near trumpets or in an enclosed space without [hearing protection](#) (i.e., > Ear Plugs/Muffs) for all persons closer than 100 feet from vehicle. Never operate train horns outdoors when persons are near vehicle without hearing protection.

END OF SECTION

13 Routine Maintenance

Perform following maintenance at least once during recommended intervals:

1. Yearly, or every 12,000 miles, verify all mounting fasteners are properly torqued. Applying witness

marks across fasteners and mounting parts is good practice to quickly ensure fasteners have not moved.

2. Yearly, or every 12,000 miles, **inspect OE wiring, tubing, cables, etc.** where kit parts may touch to **verify no abrasion or rubbing.**
3. Yearly, or every 12,000 miles, remove all road grime and mud from the mounting brackets and kit parts using clean water from a garden hose. Pay special attention to corners where dirt may collect. Touch up all paint chips using automotive grade enamel in either spray or brush form.

NOTE: Do this more frequently if traveling regularly off-road, or in winter climates with road salts. High-pressure washers may damage part finishes and must be used with care.

4. Yearly, or every 12,000 miles, check electrical connections, wires, and air fittings for abrasion, corrosion, or other damage. Replace damaged components.

NOTE: if system runs continuously or turns on unexpectedly, leaks or a poor electrical connection may be present.

5. Monthly, or every 10 hours of compressor run time, drain moisture from the air tank using the drain valve installed at the bottom of the tank.

WARNING: Failure to regularly drain the air tank may result in corrosion inside the tank and possible failure in the tank or air tubing, causing injury.

6. Yearly, or every 12,000 miles, clean or replace the air compressor air filter element. Replacement frequency depends on operating frequency and conditions of environment (i.e., daily use requires more frequent changes). Order replacement filters at Kleinn.com.

NOTE: NEVER lubricate or add liquids to the compressor.

END OF SECTION



14 Warranty Information

Thank you for purchasing GMTRK-1. Shall you experience any unexpected problems during installation, or have problems with any part at any time, please contact Kleinn support.

KLEINN MANUFACTURER LIMITED DEFECT WARRANTY:

Kleinn Automotive Air Horns 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.

END OF MANUAL

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