GMTRK-1
INSTALLATION MANUAL
REV: A (2/24/2020)
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# GMTRK-1

## Installation and Operation Manual

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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
  - 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 quickly navigating to any section; click/tap
- **Zoom IN** on pictures by pressing “CTRL and +” at same time on PC, or pinch in on smart devices
- **Zoom OUT** on pictures by pressing “CTRL and –” at same time on PC, or pinch out on smart devices

To install Adobe Reader®

On PC, or Mac

- visit [https://get.adobe.com/reader/otherversions/](https://get.adobe.com/reader/otherversions/)

On Android, iPhone/iPad, and Windows devices,


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2.2. Your Kit SKU Number and this Manual

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

2.2.1. **GMTRK-1** *(i.e., 220 Train Horn with Air Compressor & Air Tank)*

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

End of Section
3. Safety First

Read manual thoroughly before starting installation of this kit. Verify you have all parts listed and that you clearly understand this installation procedure. Contact Kleinn technical support for 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 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 below chart; every effort has been made to verify correct fitment on these vehicles in their factory, non-modified conditions.

<table>
<thead>
<tr>
<th>MODEL YR</th>
<th>MODEL</th>
<th>DRIVE</th>
<th>ENGINE</th>
<th>BODY</th>
<th>TRIM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CHEVROLET</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007-2013</td>
<td>AVALANCHE</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007.5-2018</td>
<td>SILVERADO 1500</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2020</td>
<td>SUBURBAN</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2020</td>
<td>TAHOE</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td></td>
<td>GMC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007.5-2018</td>
<td>SIERRA 1500</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2020</td>
<td>YUKON</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2020</td>
<td>YUKON XL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td></td>
<td>CADILLAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007-2020</td>
<td>ESCALADE</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2020</td>
<td>ESCALADE ESV</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
<tr>
<td>2007-2013</td>
<td>ESCALADE EXT</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL</td>
<td>ALL**</td>
</tr>
</tbody>
</table>

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

4.2. **Excluded Vehicles

- Any trim package that includes a 2nd Factory Battery

4.3. Aftermarket Product Compatibility

4.3.1. This kit has been designed to be compatible with following products from leading manufacturers:
- Most aftermarket suspension systems that use original upper control arms/links
- Aftermarket power steps, side steps, etc.

4.3.2. This kit has NOT been designed to be compatible with any of the following 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 and verify correct space and mounting locations exist with your aftermarket product(s). To install this kit alongside your other aftermarket product(s), modification to included parts, your vehicle, or aftermarket product(s) may be required.

End of Section

Go to Table of Contents
5. Installation Overview

5.1. Kit Layout and System Location(s)

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>VEHICLE LOCATION</th>
<th>MOUNTING METHOD</th>
<th>APPROX. INSTALL TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6270RC Air Compressor</td>
<td>Under hood, Driver Side (on 2nd Battery Tray)</td>
<td>Bracket bolts onto OE 2nd Battery Tray</td>
<td>1-2 Hours</td>
</tr>
<tr>
<td>2</td>
<td>6270RT 1 Gal. Air Tank</td>
<td>Under hood, Driver Side (on 2nd Battery Tray)</td>
<td>Bracket bolts onto OE 2nd Battery Tray</td>
<td>1-2 Hours</td>
</tr>
<tr>
<td>3</td>
<td>220 Series Dual Horn with Air Solenoids</td>
<td>Underbody, between frame rails (behind Bumper)</td>
<td>Bracket bolts onto OE Engine Guard</td>
<td>1-2 Hours</td>
</tr>
</tbody>
</table>

Figure 1 – Above Vehicle View Showing Kit Layout (2013 Tahoe Shown)

Figure 2 – Above View Showing 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 install steps are listed below:

<table>
<thead>
<tr>
<th></th>
<th>Step Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Unpackage product and ensure all components are present</td>
</tr>
<tr>
<td>2</td>
<td>Determine your install type (Type A or Type B)</td>
</tr>
<tr>
<td>3</td>
<td>Pre-wiring of vehicle/relay</td>
</tr>
<tr>
<td>4</td>
<td>Pre-assembly of components</td>
</tr>
<tr>
<td>5</td>
<td>On-Vehicle Installation</td>
</tr>
<tr>
<td>6</td>
<td>Wiring finalization</td>
</tr>
<tr>
<td>7</td>
<td>Test the system</td>
</tr>
</tbody>
</table>

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 and Supplies

6.1. Standard Tool List (Required)
   6.1.1. Basic mechanic’s 3/8” drive socket sets with extensions
       • Inch Size Sockets (1/4” – 1” Hex)
       • Metric Size Sockets (6mm – 20mm Hex)
   6.1.2. Basic mechanic’s combination wrenches (box/open-end)
       • Inch Size Wrenches (1/4” – 1” Hex)
       • Metric Size Wrenches (6mm – 20mm Hex)
   6.1.3. Basic mechanic’s screwdriver set (Philips, Flat Head)
   6.1.4. Torx driver, or socket set (T30-T50)
   6.1.5. Diagonal Cutter/Wire Cutter Pliers
   6.1.6. Wire Strippers
   6.1.7. Wire Terminal Crimpers
   6.1.8. Slip-Joint Pliers
   6.1.9. Vise Grips, or Locking Pliers
   6.1.10. Utility Knife, or Utility Razor blade
   6.1.11. Magnetic retrieval tool

6.2. Special Tool List (Recommended)
   6.2.1. Power Drill. Right-angle drill (close quarters) beneficial
   6.2.2. 3/16” Metal-cutting drill Bit (2” long minimum)
   6.2.3. 5/16” Metal-cutting drill Bit (2” long minimum), or variable sized “Step-Drill” (Uni-bit)
   6.2.4. 10-100 ft-lbs. torque wrench
   6.2.5. 20-150 in-lbs. torque wrench
   6.2.6. Multi-Meter for 12V DC electrical systems, or equivalent
   6.2.7. 12V DC Test Light, or equivalent
   6.2.8. Trim Panel Tool, for removing wiring and body clips, when needed

6.3. Shop Consumables List (Recommended)
   6.3.1. Quality Electrical tape
   6.3.2. Di-electric grease for electrical connections
   6.3.3. Heat Shrink tubing for electrical connections
   6.3.4. Medium-Strength ThreadLocker (i.e., Blue Loctite® PN 242), or equivalent
   6.3.5. Low-Strength ThreadLocker (i.e., Purple Loctite® PN 222), or equivalent
   6.3.6. Black/Clear Silicone for drilling holes in body
   6.3.7. Sand Paper, or Wire Brushes for installing ground wires
   6.3.8. Extra plastic zip ties > 6” long
   6.3.9. Extra NPT sealant (i.e., Kleinn Air Horn Juice, Teflon tape, etc.)
   6.3.10. Touch-up paint for frame/chassis/body
   6.3.11. Typical cleanup supplies
7. Parts List

7.1. Before Starting, Review Parts List

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

7.1.1. Review pre-packaged Kit items (i.e., K1, K2, etc.)
7.1.2. Review Air Fittings and Tubing (i.e., F1, F2, etc.)
7.1.3. Review Wiring and Accessories (i.e., E1, E2, etc.)
7.1.4. Review Bolt-On Mounting Brackets (i.e., M1, M2, etc.)
7.1.5. Review Hardware/Fasteners (i.e., H1, H2, etc.)
7.1.6. Familiarize yourself with how parts assemble

7.2. Pre-Packaged Electro-Mechanical Kit Items

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>K1</td>
<td>1</td>
<td>6270RC</td>
<td>6270RC AIR COMPRESSOR KIT – INCLUDES HARDWARE, REMOTE AIR FILTER, AIR TUBING, FITTINGS, EXTRA FILTER</td>
<td><img src="image1.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>K2</td>
<td>1</td>
<td>6270RT</td>
<td>AIR TANK, 6” OD, 1 GAL., 5-PORT</td>
<td><img src="image2.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>K3</td>
<td>1</td>
<td>220</td>
<td>220 SERIES AIR HORN KIT – INCLUDES DUAL SOLENOIDS, HARDWARE, AIR TUBING, TEE FITTING</td>
<td><img src="image3.jpg" alt="Picture" /></td>
</tr>
</tbody>
</table>
### 7.3. Air Fittings and Related Items

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1</td>
<td>1</td>
<td>2131</td>
<td>1/4&quot; NPT PRESSURE SWITCH, 80-130 PSI</td>
<td><img src="image1.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F2</td>
<td>1</td>
<td>52155</td>
<td>1/4&quot; NPT, 155 PSI SAFETY VALVE</td>
<td><img src="image2.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F3</td>
<td>2</td>
<td>51414L</td>
<td>1/4&quot; NPT X 1/4&quot; TUBE FITTING, MALE 90 DEG. ELBOW</td>
<td><img src="image3.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F4</td>
<td>2</td>
<td>51414NPTL</td>
<td>1/4&quot; NPT X 1/4&quot; NPT FEMALE, 90 DEG. ELBOW</td>
<td><img src="image4.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F5</td>
<td>1</td>
<td>52835</td>
<td>1/4&quot; NPT DRAIN VALVE</td>
<td><img src="image5.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F6</td>
<td>1</td>
<td>25014-1</td>
<td>1/4&quot; AIR TUBING, 12 FT. LONG</td>
<td><img src="image6.jpg" alt="Picture" /></td>
</tr>
<tr>
<td>F7</td>
<td>1</td>
<td>KLEINN AIR HORN JUICE</td>
<td>THREAD SEALANT FOR NPT FITTINGS</td>
<td><img src="image7.jpg" alt="Picture" /></td>
</tr>
</tbody>
</table>
### 7.4. Electrical Small Components and Related Items

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>1</td>
<td>6850</td>
<td>WIRE KIT, FULL WIRE KIT, WITH ELECTRICAL CONNECTORS AND ZIPTIES</td>
<td><img src="wire_kit.jpg" alt="Wire Kit" /></td>
</tr>
<tr>
<td>E2</td>
<td>1</td>
<td>LOOM PACK</td>
<td>1/8” X 10 FT WIRE LOOM, CORRUGATED AND SPLIT</td>
<td><img src="loom_pack.jpg" alt="Loom Pack" /></td>
</tr>
<tr>
<td>E3</td>
<td>1</td>
<td>318</td>
<td>BLACK REMOTE HORN BUTTON</td>
<td><img src="remote_horn_button.jpg" alt="Remote Horn Button" /></td>
</tr>
</tbody>
</table>

### 7.5. Bolt-On Mounting Brackets & Special Hardware

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1</td>
<td>1</td>
<td>GMTRK-1-101</td>
<td>COMPRESSOR &amp; HORN BRACKET, CUT &amp; FORMED</td>
<td><img src="bracket.jpg" alt="Bracket" /></td>
</tr>
<tr>
<td>M2</td>
<td>1</td>
<td>GMTRK-1-301</td>
<td>HORN BRACKET, WELDMENT</td>
<td><img src="weldment_bracket.jpg" alt="Weldment Bracket" /></td>
</tr>
</tbody>
</table>
## 7.6. Hardware, Fasteners and Soft Parts

NOTE: Pictures only indicative, not to scale and may not represent exact item

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QTY.</th>
<th>PART NUMBER/SIZE</th>
<th>DESCRIPTION</th>
<th>PICTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1</td>
<td>2</td>
<td>7/16&quot;-14 X 1.25&quot;</td>
<td>SQUARE NECK BOLT, GRADE 2, ZINC-PLATED</td>
<td><img src="image" alt="Screw" /></td>
</tr>
<tr>
<td>H2</td>
<td>2</td>
<td>7/16&quot;</td>
<td>SPLIT LOCK WASHER, ZINC-PLATED</td>
<td><img src="image" alt="Washer" /></td>
</tr>
<tr>
<td>H3</td>
<td>2</td>
<td>7/16&quot;</td>
<td>FLAT WASHER, USS, ZINC-PLATED</td>
<td><img src="image" alt="Washer" /></td>
</tr>
<tr>
<td>H4</td>
<td>2</td>
<td>7/16&quot;-14</td>
<td>HEX NUT, GRADE 2, ZINC-PLATED</td>
<td><img src="image" alt="Nut" /></td>
</tr>
<tr>
<td>H5</td>
<td>2</td>
<td>1/2&quot;</td>
<td>FLAT WASHER, USS, ZINC-PLATED</td>
<td><img src="image" alt="Washer" /></td>
</tr>
<tr>
<td>H6</td>
<td>2</td>
<td>M10-1.50 X 45</td>
<td>HEX BOLT, PARTIALLY THREADED, CLASS 10.9, BLACK OXIDE</td>
<td><img src="image" alt="Bolt" /></td>
</tr>
<tr>
<td>H7</td>
<td>2</td>
<td>M10 X 20</td>
<td>FLAT WASHER, DIN 125, CLASS 10.9, BLACK OXIDE</td>
<td><img src="image" alt="Washer" /></td>
</tr>
<tr>
<td>H8</td>
<td>4</td>
<td>M6-1.0 X 60</td>
<td>HEX BOLT, FULLY THREADED, CLASS 8.8, ZINC-PLATED</td>
<td><img src="image" alt="Bolt" /></td>
</tr>
<tr>
<td>H9</td>
<td>4</td>
<td>M6 X 12.0</td>
<td>FLAT WASHER, DIN 125, CLASS 8.8, ZINC-PLATED</td>
<td><img src="image" alt="Washer" /></td>
</tr>
</tbody>
</table>

End of Section
8. Assembly Steps

- 2007.5 – 2013 Trucks, follow install Type A
- 2014 – 2018 Trucks, follow install Type B
- 2007 – 2014 SUVs, follow install Type A
- 2015 – 2020 SUVs, follow install Type B

8.1. Pre-Assemble Horns to Bracket and Wire Horns

1. Use hardware included inside Horn package attach to Horn Bracket and pre-wire, as shown below.
2. Use supplied bullet connectors for each solenoid connection, merging 2 wires into 1.
3. The “T” fitting can be connected to Horns using 2 short pieces of airline.

All 2007.5 – 2018 Light Trucks and All 2007 – 2014 SUVs, Horns are attached to Bracket, as shown below.
All 2015 – 2020 SUVs, Horns are attached to Bracket, as shown below.

8.2. Prepare Factory 2nd Battery Tray for Bracket Installation
   1. Remove 4 factory bolts from bottom of battery tray. These will later be replaced by supplied 6mm bolts.
   2. Ground point shown. Use factory bolt for battery tie down; remove all paint/dirt where ground attaches.
8.3. Type A – Instructions (2007.5 - 2013 Trucks & 2007 – 2014 SUVs)

Figure 7 – (Type A) Air Compressor & Air Tank Orientation

8.4. Type A – Tank Prep
Pre-install fittings using supplied Kleinn Air Horn Juice thread sealant, as shown below. With all fittings installed on Tank, airline can be connected to compression fitting and later routed to Air Horn.

Figure 8 – (Type A) Air Tank Fittings Orientation
8.5. Type A – Installation

1. Mount Compressor and Tank to Battery Tray Bracket as shown for Type A above
2. Use hardware in Compressor box to mount Compressor.
3. Attach Compressor leader hose to Air Tank 90° Fitting. **DO NOT OVERTIGHTEN CHECK VALVE** when tightening leader hose. Use supplied thread sealant, tighten by hand, then use wrench and tighten 1/4 - 1/2 turn to seat.
4. Supplied 7/16 Carriage Bolts, washers and nuts will be used to secure Air Tank.
5. With all components mounted, place Compressor and Tank sub-assembly onto Battery Tray and route airline and horn activation wire down past behind headlight to lower bumper area.

   NOTE: To improve installing sub-assembly onto Battery Tray, pull back upper coolant hose (while cool) and then shifting the battery tray back and forth into its final mounting position.

6. Use supplied 6mm mounting bolts and washers to secure Bracket/Sub-assembly to Battery Tray.
7. Once positioned, Compressor can be wired to main power wire and grounded.
8. Pressure switch can also be wired; ignition wire will go to pressure switch and back out to relay pin # 85.
9. Attach Remote Air Filter to barbed fitting on front of Air compressor and locate it where desired; reference instructions included in Air Compressor box.


![](image)

*Figure 9 – (Type B) Air Compressor & Air Tank Orientation*
8.7. Type B – Tank Prep

Pre-install fittings using supplied Kleinn Air Horn Juice thread sealant, as shown below. With all fittings installed on Tank, airline can be connected to compression fitting and later routed to Air Horn.

![Figure 10 – (Type B) Air Tank Fittings Orientation](image)

8.8. Type B – Installation

1. Mount Compressor and Tank to Battery Tray Bracket as shown for Type B above
2. Use hardware in Compressor box to mount Compressor.
3. Attach Compressor leader hose to Air Tank 90° Fitting. **DO NOT OVERTIGHTEN CHECK VALVE** when tightening leader hose. Use supplied thread sealant, tighten by hand, then use wrench and tighten 1/4 -1/2 turn to seat.
4. Supplied 7/16 Carriage Bolts, washers and nuts will be used to secure Air Tank.
5. With all components mounted, place Compressor and Tank sub-assembly onto Battery Tray and route airline and horn activation wire down past behind headlight to lower bumper area.

   **NOTE:** To improve installing sub-assembly onto Battery Tray, pull back upper coolant hose (while cool) and then shifting the battery tray back and forth into its final mounting position.

6. Use supplied 6mm mounting bolts and washers to secure Bracket/Sub-assembly to Battery Tray.
7. Once positioned, Compressor can be wired to main power wire and grounded.
8. Pressure switch can also be wired; ignition wire will go to pressure switch and back out to relay pin # 85.
9. Attach Remote Air Filter to barbed fitting on front of Air compressor and locate it where desired; reference instructions included in Air Compressor box.
8.9. Horn Installation – 2007.5-2013 Trucks & 2007-2014 SUVs

1. Remove 2 factory Engine Shield Bolts and place Air Horns sub-assembly into place using supplied M10 Bolt and Washers to attach to vehicle.
2. Ground Air Horn to vehicle using supplied self-tapping screw.

Figure 11 – Horn Bracket Mounting Bolts 2007.5-2018 Trucks, 2007-2014 SUVs (2013 Sierra 1500 Shown)

Figure 12 – Air Horn Orientation 2007.5-2018 Trucks, 2007-2014 SUVs (2013 Sierra 1500 Shown)
8.10. Horn Installation – 2015-2020 SUVs

1. Remove 2 factory Engine Shield Bolts and place Air Horns sub-assembly into place using supplied M10 Bolt and Washers to attach to vehicle.
2. Ground Air Horn to vehicle using supplied self-tapping screw.

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Figure 13 – 2015-2020 SUVs Horn Bracket Mounting Bolts (2020 Tahoe Shown)

Figure 14 – Air Horn Orientation 2015-2020 SUVs (2020 Tahoe Shown)

End of Section
9. 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.

9.1. Relay and Fuse Diagram for Air Horn System

![Relay and Fuse Diagram for Air Horn System]

*Figure 15 – Suggested Ignition Relay Diagram for Air Horn System (220 Horns Shown)*

9.2. Disconnect Vehicle Battery(s)

9.3. Connect Wiring to Fuse and Relay; route through Vehicle

9.3.1. Find a suitable location for supplied Fuse and Relay. Shown below is an example location under hood next to Battery and Brake Booster, respectively. Use supplied self-tapping screws, as necessary.

9.3.2. The main power wire will be connected to the positive battery terminal, with the fuse being as close as possible to the battery (within 18 inches). With the fuse removed, connect this wire to PIN # 30 on the supplied relay. The remaining wire will be connected to pin #87 and, this wire can be routed to the driver side AUX battery tray location. This will later be connected to the Red 12v+ compressor wire. The supplied loom will be used to cover the wire, after it is routed.

翻自安装：使用”电池 lament” that is at the front of fuse box, directly behind kit.

9.3.3. The supplied 18ga. yellow wire will be connected to a fused ignition source. (12+ only when key is turned to the “ON” position). The fuse box, or vehicle ignition harness can be taped into using the supplied connectors. Test and verify wire polarity and function before connecting into any circuit. Route this yellow wire to the AUX battery tray location for connection to the pressure switch. The remaining 18ga. yellow wire will be connected to the relay pin # 85 Use the supplied wire loom to cover the wire once routed.

9.3.4. The supplied 18ga. red wire will be used to activate the horn. It will be routed from the location you choose for the button, through the firewall and past the AUX battery tray. This 18ga. red wire will later be routed down to the horn with the airline. Use the supplied wire loom to cover the wire once routed.

9.3.5. The supplied 18ga. black wire will be used to ground the relay. Use the supplied blue ring terminal to attach the wire to a paint free metal surface. Use the supplied blue female connector to connect this ground wire to the relay, pin # 86

9.3.6. Install supplied fuse holder on end of power wire by cutting the loop in fuse holder and connecting supplied Ring terminal to one end and Butt connector on other end.

CAUTION: Do not install 30-amp fuse until all electrical connections are final.
9.4. **Install Horn Button**

9.4.1. Find a suitable location for horn push-button (i.e., in dash, center console, etc.); verify location has 1”+ of clearance behind for terminal connectors. Mark location for drilling.

**NOTE: FOR VEHICLES WITH FACTORY UPFITTER SWITCHES:**

If your vehicle is equipped with factory upfitter (i.e., auxiliary) switches, you may elect to use them for your Kleinn Air Horn kit; consult Owner’s Manual, or dealership for further instructions on what wire terminals/fuse block location to use and programming required.

9.4.2. Drill a 3/4” hole at location. Route horn button wires to hole then slide push-button retaining nut over wires and connect wiring. Install push-button into hole and tighten retaining nut from backside.

9.5. **Connect Pressure Switch**

9.5.1. Route wiring, as desired back to Air Tank and connect to Pressure Switch, per wiring diagram.

9.6. **Connect Air Compressor**

9.6.1. Route wiring, as desired back to Air Compressor and connect, per wiring diagram.

9.7. **Connect Air Horn Solenoid(s)**

9.7.1. Route wiring, as desired up to Air Horn and connect to Solenoid(s), per wiring diagram.

9.8. **Secure Wiring to Vehicle**

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

End of Section
10. Final Steps & Testing of Kit

10.1. Reconnect Vehicle Battery(s)
CAUTION: Before connecting 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.

10.2. Test Air Compressor
10.2.1. Turn vehicle ignition to on position and allow compressor to fill Air Tank. Initial fill may take approximately 1.5-3 minutes; Air Compressor should shut off automatically once full pressure is achieved.
10.2.2. If compressor runs excessively (i.e., 5 minutes or more), disconnect electrical power to Air Compressor and listen for air leaks in system. Repair any problems and retest; contact Kleinn technical support if problem persists.
10.2.3. 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.
10.2.4. System must be pressurized or at least Air Compressor running.
10.2.5. If an air leak is found:
10.2.6. Safely release air pressure from system (i.e., slowly open drain valve).
10.2.7. Disassemble leaky connection, re-seal and reinstall fittings as needed.

10.3. Test Train Horns
10.3.1. Allow Air Compressor to run and shut-off automatically (i.e., Air Tank is full).
10.3.2. Verify all tubing and electrical wire is securely fastened to vehicle, brackets, or kit parts; if necessary, use extra zip ties to hold tubing and wire in place.
10.3.3. 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 Ear Muffs) for all persons closer than 100 feet from vehicle. Never operate train horns outdoors when persons are near vehicle without adequate hearing protection.

10.3.4. Briefly activate Horns by pressing Horn Button for one (1) second; repeat three (3) times with a short rest period between (i.e., 1-3 seconds).
10.3.5. Horns should sound as expected and be loud; click to listen to example 230 Kit.
10.3.6. Horn sound/loudness will taper quickly as Air Tank loses pressure.
10.3.7. Allow Air Compressor to refill tank, if needed and activate Horns for longer three (3) second period to ensure Horns are functioning properly.

End of Section
11. General Operation of Kit

11.1. Compressor Operation

**WARNING:** Never operate Air Compressor above its MAXIMUM PRESSURE RATING (see label on body). Operation exceeding maximum pressure will damage Air Compressor and may result in Dangerous Air System failure.

11.1.1. Air compressor is equipped with an automatic thermal overload protection circuit, designed to protect air compressor from overheating and causing permanent damage.

11.1.2. Automatic thermal overload protector will automatically reset after 30 minutes.

11.1.3. To prevent discharge of vehicle’s battery and for best performance, keep vehicle’s engine running while using air compressor for any prolonged use (i.e., filling tires, using air tools, etc.).

11.2. Horn Operation

11.2.1. Allow Air Compressor to run until it shuts off automatically (i.e., Air Tank is full), or for at least one minute in between horn activations.

11.2.2. Press Horn Button to activate Horns

11.2.3. Horn sound/loudness will taper quickly as Air Tank loses pressure.

11.2.4. Horns should sound for 3-7 seconds depending on kit and tank size

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

12. Routine Maintenance

Perform following steps at least once during recommended intervals.

12.1. Yearly, or every 12000 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.

12.2. Yearly, or every 12000 miles inspect OE wiring, tubing, cables, etc. where Kit parts may touch, to verify no abrasion or rubbing.

12.3. Yearly, or every 12000 miles remove all road grime and mud from 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:** High-pressure washers may damage part finishes and must be used with care. Do this more frequently if traveling regularly off-road, or in winter climates with road salts.

12.4. Yearly, or every 12000 miles check electrical and air fitting connections and wires for abrasion, corrosion, or other damage. Replace damaged components.

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

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

**WARNING:** Failure to regularly drain air tank may result in corrosion inside tank and possible failure in tank or air lines, which can suddenly release air pressure causing injury.

12.6. Yearly, or every 12000 miles clean, or replace air compressor air filter element. Replacement frequency depends on operating frequency and conditions of operating environment (i.e., daily use requires more frequent changes). Order replacement filters at Kleinn.com.

**NOTE:** Never lubricate or add any liquids to the included oil-less air compressor.
13. 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.

KLEIN 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.

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