USER MANUAL

Waterproof Air Compressors

Please review the contents of this manual before using the compressor.

The installation and maintenance procedures outlined in this manual are applicable to the full lineup of Kleinn Professional Waterproof Compressors. This high-performance series shares a common fully submersible DNA, ensuring reliable operation in the most extreme environments.

Applicable Part Numbers

- **Model 6450RC** – Ultra Heavy-Duty (200 PSI / 100% Duty Cycle)
- **Model 6350RC** – Heavy-Duty (150 PSI / 100% Duty Cycle)
- **Model 6275RC** – Medium-Duty (150 PSI / 50% Duty Cycle)
- **Model 6270RC** – Light-Duty (130 PSI / 25% Duty Cycle)

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What's in the Box:

Air Compressor:

- 100% Fully Submersible & Waterproof Air Compressor

Mounting Hardware:

- M5 Hardware consisting of: Hex Head Bolts (4), Nuts (4), Washers (8), Lock Washers (4)

Everything Else:

- Air filter housing w/ installed filter element and mounting clip
- Replacement air filter elements (2)
- Remote Air Filter (Snorkel) Kit
- 12' of 3/8" Airline (air filter should be run into the cab)
- Model 30202: Black Stainless Steel Leader Hose, PTFE Lined, and Inline Check Valve Installed
- Ground Wire Eyelet fot easy grounding to a clean, paint free surface.
- Label on the compressor contains the part number

Specifications

6450RC

- Fully Waterproof & Submersible
- Compressor Type: Sealed, Oil-less 4
- Voltage: 12 Volts DC
- Maximum Amperage: 23 Amps
- Duty Cycle @ 72° F (100 PSI): 100%
- Maximum Working Pressure: 200 PSI
- Flow Rate @ 0 PSI (13.8 Volts): 2.1 CFM
- Dimensions: 11.25” L x 4” W x 6.5” H
- Replacement Pressure Switch 2151
- Replacement Safety Valve 52175

6350RC

- Fully Waterproof & Submersible
- Compressor Type: Sealed, Oil-less
- Voltage: 12 Volts DC
- Maximum Amperage: 21 Amps
- Duty Cycle @ 72° F (100 PSI): 100%
- Maximum Working Pressure: 150 PSI
- Flow Rate @ 0 PSI (13.8 Volts): 2.0 CFM
- Dimensions: 9.25” L x 4” W x 6.5” H
- Replacement Pressure Switch 2151
- Replacement Safety Valve 52175

6275RC

- Fully Waterproof & Submersible
- Compressor Type: Sealed, Oil-less
- Voltage: 12 Volts DC
- Maximum Amperage: 20 Amps
- Duty Cycle @ 72° F (100 PSI): 50%
- Maximum Working Pressure: 150 PSI
- Flow Rate @ 0 PSI (13.8 Volts): 1.7 CFM
- Dimensions: 8.25” L x 4” W x 6.5” H
- Replacement Pressure Switch 2151
- Replacement Safety Valve 52155

6270RC

- Fully Waterproof & Submersible
- Compressor Type: Sealed, Oil-less
- Voltage: 12 Volts DC
- Maximum Amperage: 14 Amps
- Duty Cycle @ 72° F (100 PSI): 25%
- Maximum Working Pressure: 150 PSI
- Flow Rate @ 0 PSI (13.8 Volts): 1.56 CFM
- Dimensions: 6.4” L x 3.5” W x 4.6” H
- Replacement Pressure Switch 2121 for HK1-HK2
- Replacement Safety Valve for HK1/HK2/HK2-1
- Replacement Pressure Switch 2131 for HK 3- HK4
- Replacement Safety Valve for 52145

Compressor Installation

Mounting

• This compressor can be mounted in any position, but it is not recommended to mount the compressor upside down; this may cause overheating & loss of efficiency.

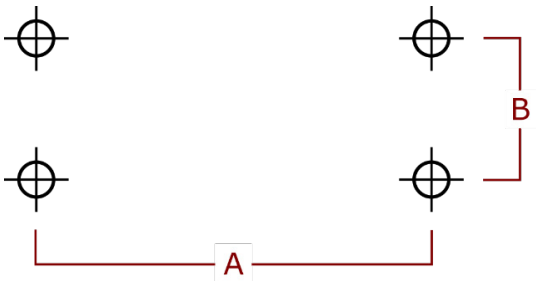
• This compressor is waterproof & moisture / dust resistant. It may be mounted underneath your vehicle using the Remote Air Intake Kit.

• Use of the Remote Air Intake Kit is recommended to relocate the air filter to a clean & dry environment inside the vehicle, this will also reduce compressor operation noise by 25%.

CAUTION

To maximize compressor performance, install it as close to the battery as possible & use large gauge wire (12 Ga minimum) to avoid voltage loss or increase current draw on longer runs.

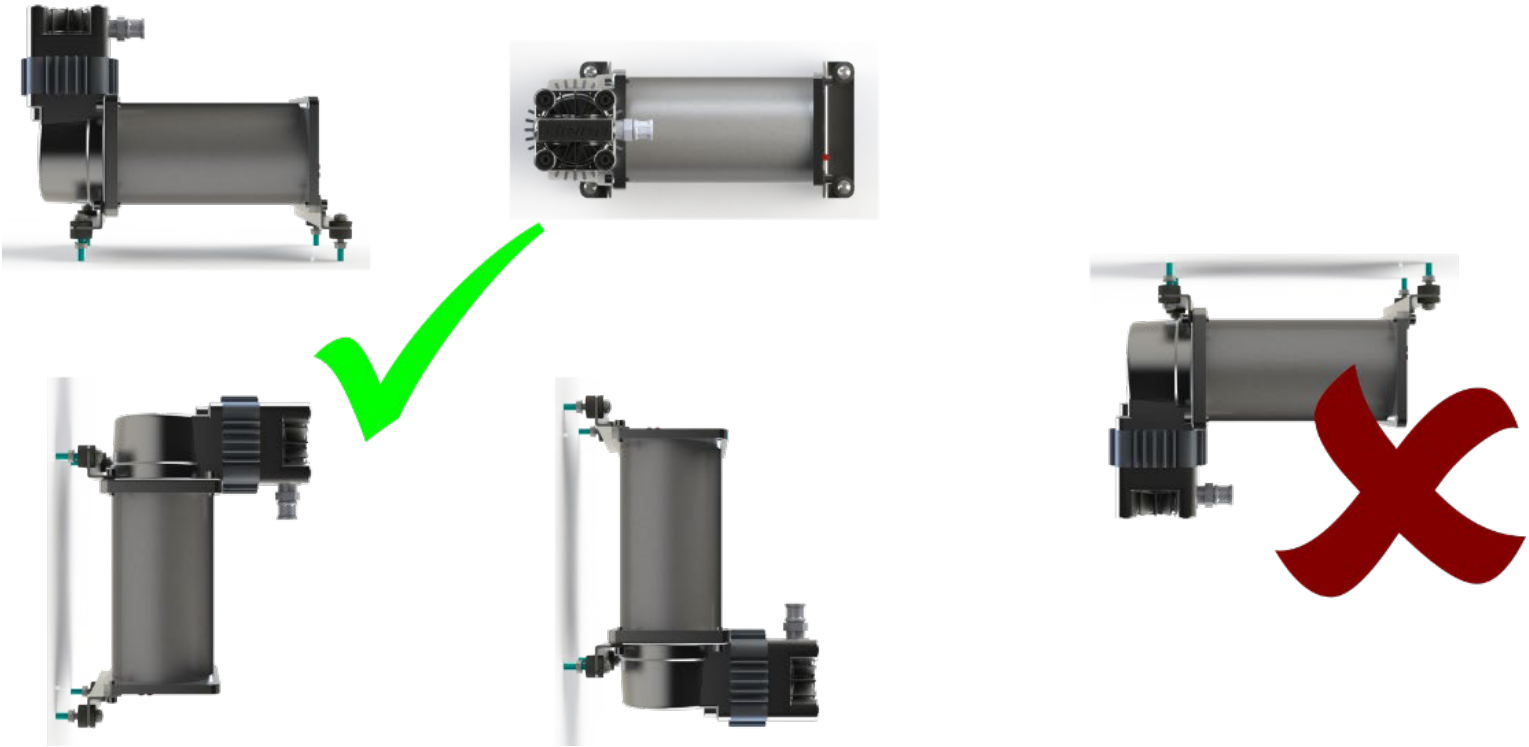
Mounting Hole Pattern



Compressor P/N:	A	B
6450RC	226mm | 8.90"	84mm | 3.31"
6350RC	186mm | 7.32"	
6275RC	156mm | 6.14"	
6270RC	156mm | 6.14"	70mm | 2.76"

Hole Size is 5mm Diameter

Compressor Orientation



While the air compressor can be mounted in any position, Kleinn **DOES NOT** recommend mounting upside down as this **will cause** overheating & efficiency loss.

Things to Know - Pre-Installation

- **12 Volt Constant Power Lead:** To maximize performance, keep the red power wire as short as possible and use at least a 12-gauge wire to minimize voltage loss.

  Relay Operation: The power wire should run from the vehicle's battery to either the top or bottom post of the SPDT relay (P/N 340), with a 30-amp fuse located 8-12" from the battery terminal. Another wire of the same gauge should then connect to the opposite top or bottom terminal of the relay.

- **Please note** that the top and bottom posts are non-polar; if the bottom post connects to the battery, the top post connects to the compressor, and vice versa. When the pressure switch sends a signal to the relay, it will provide power from the battery to the compressor.

- **Fuse & Wire Size:** • Ensure your compressor is properly fused. The compressor label & the model specifications note the Current (ampere) requirements. For reference, a **30 amp ATC** blade fuse is standard in our **6852 and 6858 wiring kits**, which utilize **10 gauge fuse holder, power and ground wiring**.

- **Pressure Switch Connection:** There are two connections to be made on the pressure switch. It does not matter which side you use for each, as long as one side receives 12 volts from an ignition source. The other side of the pressure switch should then be connected to the relay that will turn the compressor on and off. Please ensure the pressure switch receives a true ignition source (12 volts when the key is on and 0 volts when the key is off), to avoid damaging the compressor.

  Pressure Switch Replacement: Use a pressure switch that is rated for your compressors working pressure. It must be paired with the correct safety valve. **SEE CHART BELOW.**

- **Ground Connection:** Use a solid ground connection to minimize increased current draw from resistance of the ground wire. Identify a solid metal surface and sand it down to shiny metal. When installing, ensure the ground is prepared with an eyelet and securely bolted in place so it is not loose. Please note that the maximum recommended ground length is provided on our compressors or 18-24".

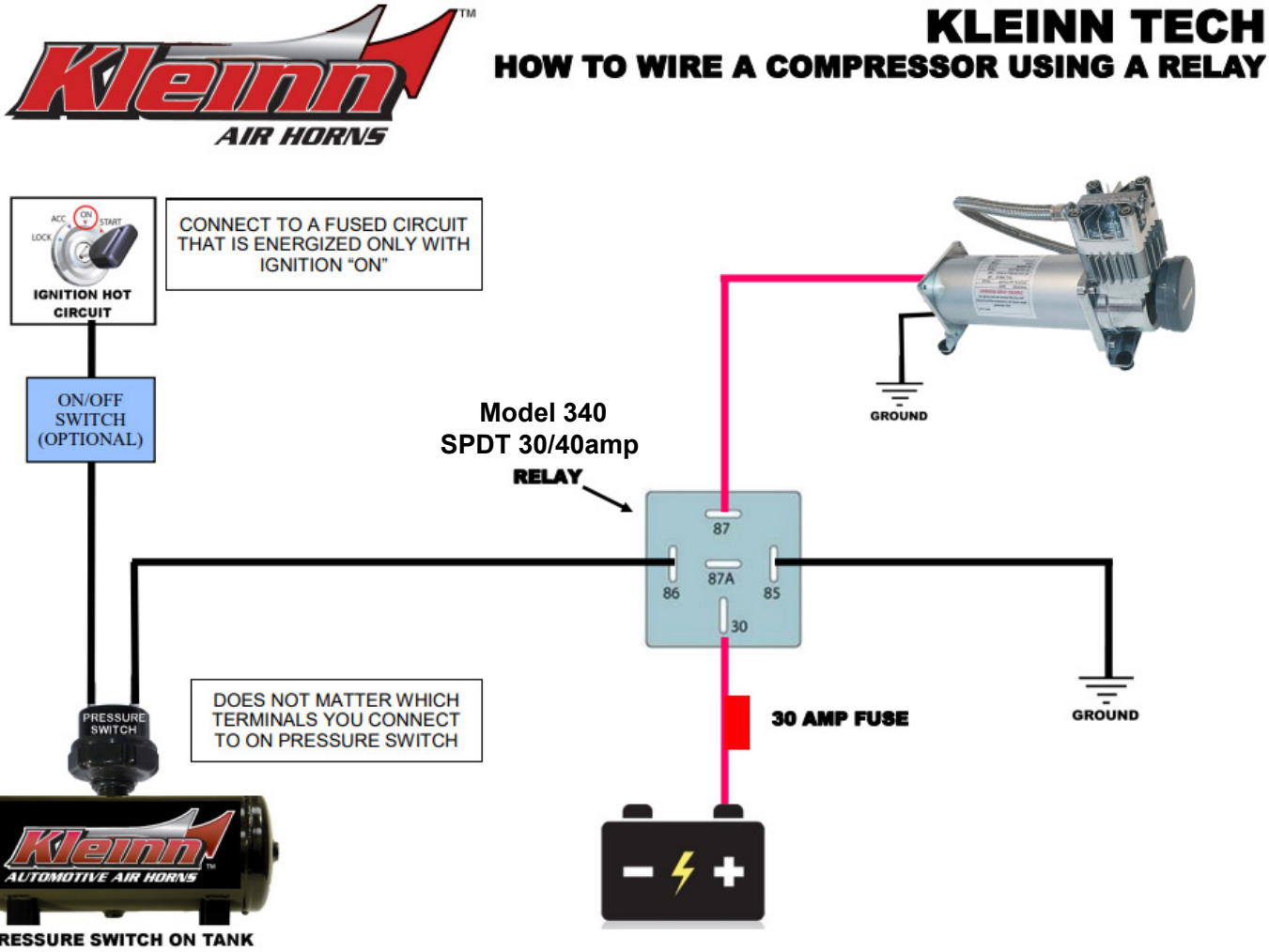
  Leader Hose: The compressor stainless steel braided line, includes a built-in check valve. It is not recommended to remove this leader hose from the compressor head unless you need to replace it or if the installation guide calls for it. **If this hose needs to be removed, it is crucial that the area where the leader hose enters the head of the compressor is heated up with a heat gun or torch until it melts the thread sealant before trying to unscrew the fitting.**

Compressor Model	Pressure Switch	Cut-Out Pressure	Safety Valve
6270RC	2121	120 PSI	52145
6270RC	2131	130 PSI	52155
6275RC	2151	150 PSI	52175
6350RC	2151	150 PSI	52175
6450RC	2151	150 PSI	52175

Wiring Diagram - Recommended Connections

Pressure Switch & Relay

Your system requires the use of a pressure switch to control the compressor operation at preset pressures. The use of a SPDT 12-Volt **Relay** (30/40A) is recommended to prolong the life of the pressure switch.



1. Never install a pressure switch directly across from the compressor air inlet port. Tank pressure can be misread from the pressure switch & may cause undesired on/off operation.

2. Never use a pressure switch rated beyond your compressors maximum working pressure.

3. Always use a relay to control the on/off of the compressor.

4. Kleinn pressure switch leads are not polarized.

Testing Your System:

1. Run the air compressor to build up pressure in the air tank. The compressor will shut off once the pressure switch cut-off pressure is reached. If the safety valve releases, test the pressure switch, for example it should have 12 volts on one leg and 0 volts on the lead feeding the relay when the pressure reaches 150 PSI (+/- 5%) on a 150 PSI system.

2. Inspect all air tubing connections for leaks by spraying a soap & water solution directly in the area of the fittings/connections and look for a streak in the mist.

3. If bubbles form, or leaks are detected in the mist, drain the air from the system, re-seal & re-connect the fittings to reseal the system.

More Things to Know

- These compressors are designed to be used to pressurize an air tank, which can then be the primary supply for air horns, tire inflation, air bags & certain air tools.

- **Compressors** are equipped with a **thermal overload protection circuit**, which will protect the compressor from damage due to overheating. This protection circuit will automatically reset after approx. 30 minutes of inactivity to prevent over-discharge of your vehicle's battery. For optimal compressor performance, **keep your vehicle's engine running while the compressor is operating by wiring the pressure switch to 12-volts that turns on with ignition only.**

- **Snorkel Kit:** Included with our compressors, the relocation kit prevents premature failure of parts like the pressure switch, run the air intake into the cab of the vehicle, this will ensure that the compressor draws drier air ensuring parts remain dry.

Safety & Maintenance

- **DO NOT** touch the compressor, stainless steel hose, or fittings during or immediately after use. The compressor, leader hose, & fittings may become **VERY HOT** at this time.

- **DO NOT** lubricate the compressor using any oil or lubricant. The compressor is considered non-repairable. Disassembly of the compressor may void your warranty.

- **DO NOT** attach quick-connects to compressor wire leads.

- **DO Run the ground wire directly to a solid metal chassis point**.

- **DO** Replace air filter element periodically, dependent on operation time & environmental conditions.

- **DO** Periodically check the compressor mounting hardware & tighten as needed.

- **DO** Keep the compressor body & heat sink fins clean to maintain passive cooling efficiency. Regularly clean dust & dirt buildup from compressor exterior to reduce head buildup during operation.

Warranty Information

One-Year Limited Defect Warranty for Kleinn Automotive Accessories:

Kleinn Automotive Accessories is committed to delivering high-quality products to our customers. We stand behind the craftsmanship and materials of our products by offering a comprehensive one-year limited warranty. This warranty is extended to the original purchaser, ensuring that when our products are installed properly and used under standard conditions, they will be free from defects in workmanship and materials for a period of one year from the original date of purchase.

This warranty encompasses a promise that the product you have purchased will perform as expected under normal use conditions and will not suffer from flaws in materials or craftsmanship. However, it is important to note that this warranty does not cover any damage that results from abusive use, operation that is not in line with the product's intended purpose, or harm resulting from exposure to harsh environmental conditions. In the event that a product is found to be defective within the warranty period following a thorough inspection, Kleinn Automotive Accessories reserves the right to either repair or replace the defective item at no additional charge to the purchaser. It is our goal to ensure that our products meet the high standards that our customers expect, but we also want to clarify that Kleinn is not responsible for covering any costs related to the installation of our products, nor are we liable for any loss or damage that may occur as a result of the repair or replacement process of any product under warranty.

Extended Two-Year Warranty for Select Products:

Understanding the specific needs of our customers and the demands placed on certain products, Kleinn Automotive Accessories is pleased to offer an **exclusive extended two-year warranty** for our **6450/6650** Compressors and **730** Horns. This special warranty extension reflects our confidence in these products' durability and performance. Eligible products under this extended warranty will enjoy all the benefits of our standard one-year warranty with an additional year of protection, totaling two years from the date of purchase. This extended warranty coverage ensures that these specific models, recognized for their robustness and reliability, receive the extra assurance customers desire for these critical components.

Kleinn Automotive Accessories

4045 N. Highway Drive, Tucson, AZ 85705

Tel (520) 579-1531

www.kleinn.com