



COMPACT TWIN AIR HORNS & COMPRESSOR KIT MODEL AH-250

The **AH-250** air Horns and Compressor kit may supplement existing vehicle horns. The kit includes twin horns, a self-contained air compressor, mounting bracket and hardware. As there are several possible installation configurations; in some cases, optional parts may be needed. **It is the user's responsibility to use this product legally and properly.**

The air compressor runs **on demand** (i.e.- only when the horn sounds). Therefore, it is possible to configure the air horns in place of, or supplemental to, the vehicle's existing horns. **Check local ordinances regarding this use.** An optional dedicated controlling switch may also be configured.

A) Mounting the Air Compressor and Air Horns:

The air horns are made of the highest metal materials with plated and coated finishes. The horns are weatherproof, and may be mounted virtually anywhere on the vehicle, **as long as it is not with the bell openings pointed up** (whereby water can collect in them). The air compressor is also a high-quality materials and manufacturing unit; but, being electrically-operated, some mounting considerations should be made. **The compressor is spray-resistant, but it should not be mounted where it can get wet.** The compressor and horns are typically mounted together (i.e.- within reach of the included air hose). Good mounting areas are on the radiator support panel, on the fender well, or behind the grille / front fascia panels. An ideal mounting location scenario is the compressor on the engine compartment side of the front radiator support panel, and the horns on the other side of the panel, or behind the front grille. When the compressor and horns have been both mounted, push the air hose ends over the fitting on each.

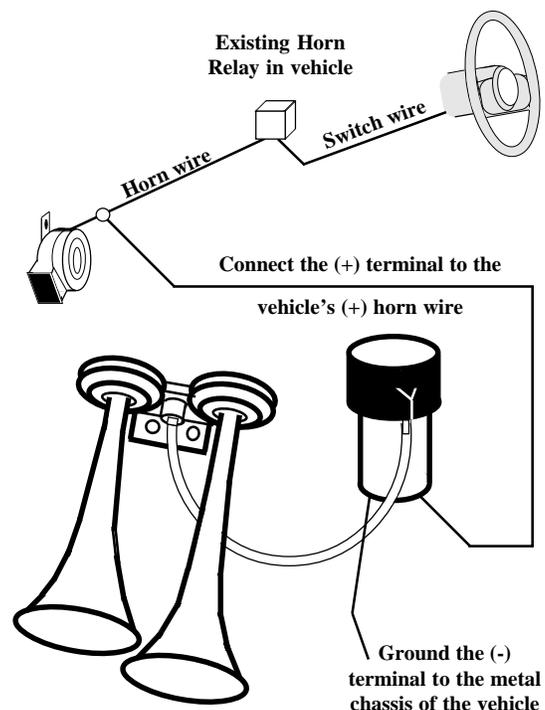
B) Making the Electrical Connections:

The compressor's electrical connections are straightforward- power and ground only. On the bottom of the compressor are two electrical terminals, marked “(-)” and “(+)”. Several configurations are shown:

1- Adding the Air Horns to an existing car horn:

Securely ground the air compressor's (-) terminal, and connect the (+) terminal to the existing horn's (+) switching wire.

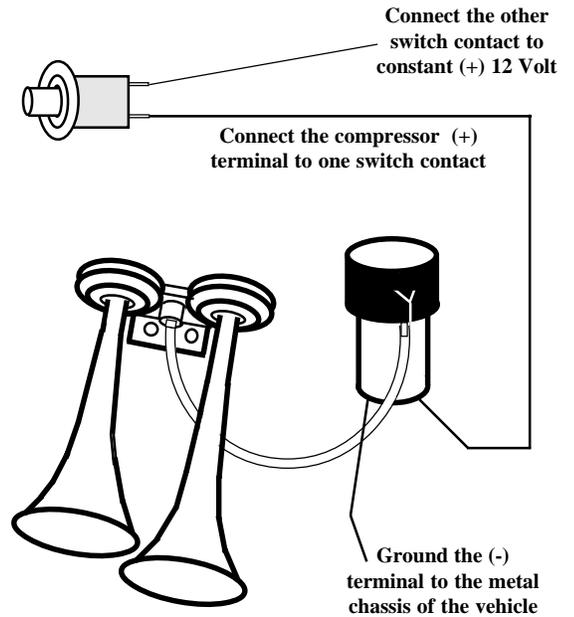
- The existing horn must be “positive switching”; the wire to the horn shows (+) 12 Volts when the horn is sounding.
- The vehicle must have an existing horn relay, which is capable of supplying the 15 Amp current needed by the air compressor, in addition to the existing horn's current draw.
- Should the existing horn relay be inadequate, or not present, add an optional relay as shown in section “Configuring an Optional Relay”.



2- Using an optional Switch to sound the Air Horns:

Securely ground the air compressor's (-) terminal, and connect the (+) terminal to one contact terminal of the switch. Connect the other switch contact terminal to a constant (+) 12 Volt source.

- The switch must be a "momentary contact" and "normally open" type, rated to carry at least 15 Amps.
- The constant (+) 12 Volt source for the switch should supply at least 15 Amps of current.
- If the optional switch to used is rated at less than 15 Amps, add an optional relay as shown in the next section "Configuring an Optional Relay".

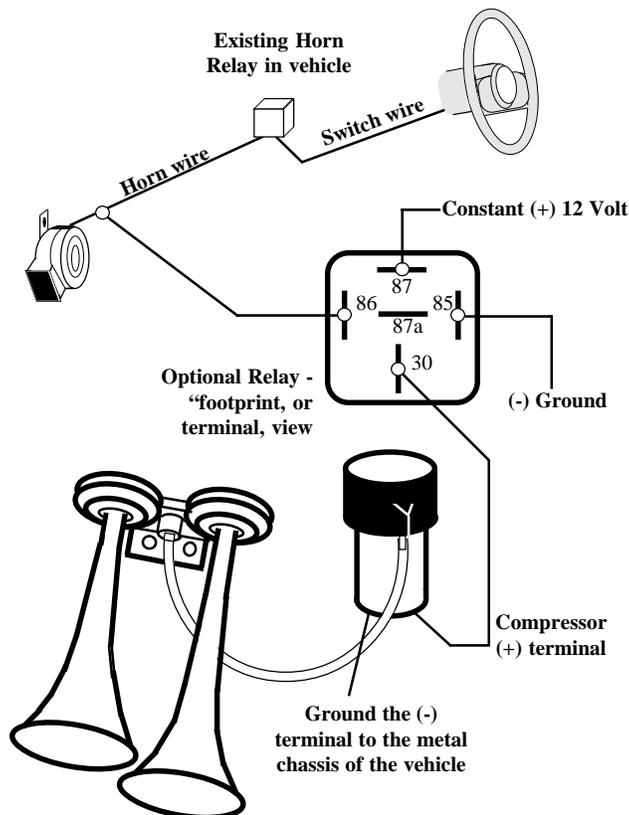


3- Several uses for an optional Relay in sounding the Air Horns:

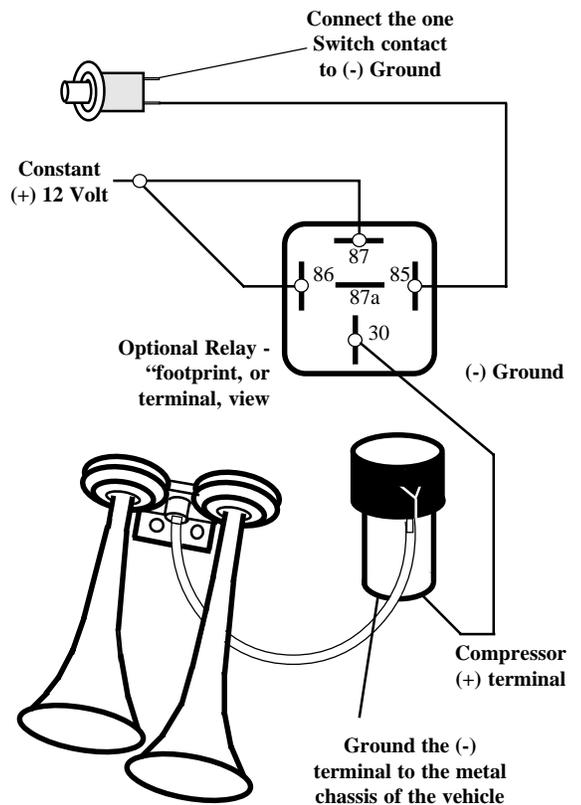
A relay simply uses low power to switch high power to an electrical device. The optional relay needed is a standard 5-pin single Pole Double Throw (SPDT) or 4-pin Single Pole Single Throw (SPST) relay (one pin, or terminal, is not used on the SPDT relay). Examples of when a relay is needed are:

- The existing factory horn relay will not switch enough current to sound both the air horns and the factory horn.
- If the optional switch used to sound the air horns will not switch the 15 Amps needed.

3a- Existing factory horn relay will not switch enough current



3b- Optional switch will not switch enough current



NOTE: There are other possible relay wiring configurations