

## HOW TO HOOK UP AN AIR SUPPLY FOR AIR HORNS FOR ONAN MOTORCARS

By Jack Whitt

You will need a compressor, a collecting cylinder, and air tanks to build an air supply for an air horn.

### *The Compressor:*

Sanyko automobile air conditioner. All air conditioners are a closed lubricating system. Therefore, in using the compressor for air a cylinder must be made to collect the 20 S.A.E. oil and return the oil to the compressor on the intake side.

### *The Collecting Cylinder:*

First, use a 4" pipe coupling, cut in half. Weld the cut end to a 6" x 6" x 1/4" angle iron for the base of the cylinder. The down angle will later be bolted to the frame of the motorcar.

Second, use a 4" piece of pipe, including threads on one end, 6" long. This screws into the coupling that was cut in half and welded to the angle iron in the first step above. Close the top open end with 1/4" flat iron welded. On this welded end (top) bore a hole in the center and weld a 3/8" pipe for connecting to the air tank. Also, on this welded end (top) weld four short pieces of 1/8" pipe, flat forming an "X" so a screw driver can be inserted to tighten the 4" x 6" pipe cylinder.

Next, the bottom cylinder. Weld a 3/8" pipe that extends through the center of the bottom 1" to 1 1/4" so that a Fram Oil filter can be screwed onto it. Perforate this filter from the bottom with an ice pick to release back pressure. Also, weld a 1/4" pipe through but flush with the bottom of the cylinder for returning the collected oil to the compressor. Place 1/4" copper tubing valve for regulating the flow of air and oil back to the compressor.

Fourth, between the 3/8" pipe on top of the cylinder and the half-inch, one-way pipe valve, use copper tubing. After the one-way valve, use half-inch pipe to the air tank, pressure switch, pressure gauge, and horns. The copper tubing crosses the motorcar from right to left.

Fifth, air tanks off dump trucks are usually smaller in diameter than those used on semis.

Next, pressure control. Ones used on pri-

vate water systems are good. Control switch that cuts the 12 volts to the compressor clutch on and off. Place a master push-pull switch on the motorcar control panel. Set the switch to 55-100 lbs.

Lastly, the valve for horns. Half-inch pipe quick cutoff valve and load the off side of the handle with a spring that cuts off when you release the lanyard.

### *Location of Compressor:*

The alternator is to the port side of the engine. The compressor should fit on the starboard side. Bolt the compressor on the inside of 6" x 6" x 1/4" angle iron for a base and the vertical angle is bolted to the inside wall of the engine compartment. The same belt for the alternator is now used for the compressor. You probably will need to make a new engine hood.

### *Location of Cylinder:*

Outside of the engine compartment on starboard side front inside cab.

### *Location of Air Tanks:*

Two tanks fit under seat on port side on floor, 7" diameter by 18" long. Air supply for one good long road crossing signal. Pressure back up in 60 seconds.

