

AIR COMPRESSOR ACCESSORY KIT

K71-632-02

2307



Installation Instructions

Congratulations on your purchase of a new Air Compressor Accessory Kit. This kit was designed to meet your air supply needs.

Please take a few minutes to read through the instructions, identify the components, and learn how to properly install your Air Compressor Accessory Kit.

Be sure to take all applicable safety precautions during the installation of this kit.

Tools Required

- Utility knife
- Flat screw driver
- Wire crimper/stripper
- (2) $\frac{9}{16}$ " open-end wrench
- $\frac{3}{8}$ " wrench
- $\frac{3}{8}$ " drill bit
- Electric drill
- $\frac{1}{2}$ " wrench
- $\frac{1}{4}$ " drill bit

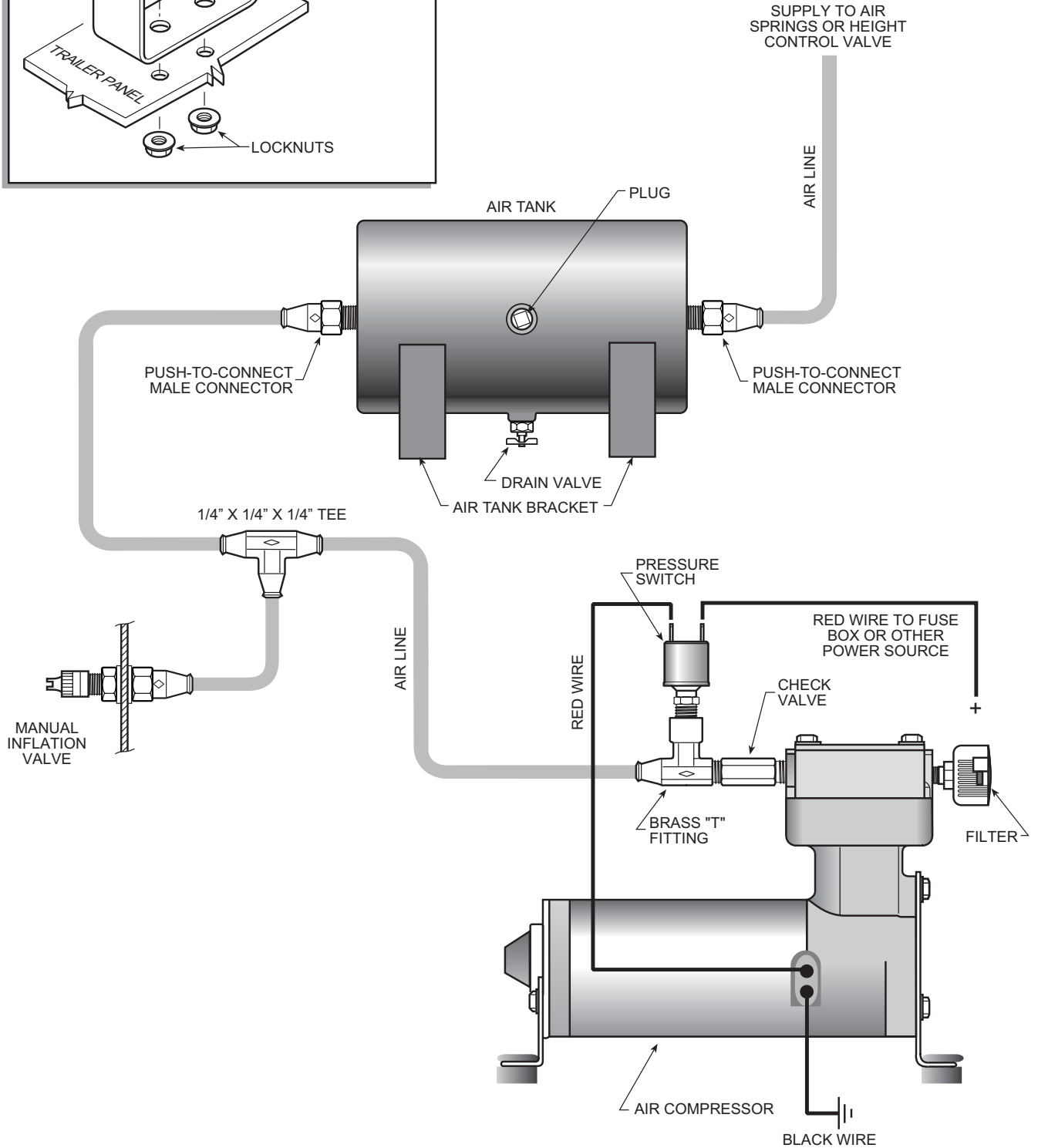
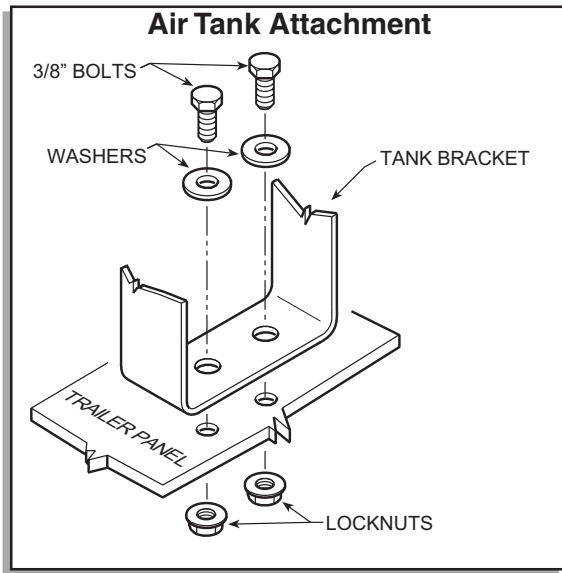
PARTS LIST

Description	Part No.	Quantity
Push-to-Connect $\frac{1}{4}$ " x $\frac{1}{4}$ " x $\frac{1}{4}$ " T-Fitting	034-290-00	1
Compressor	034-293-00	1
50 Ft. Air Line Tubing $\frac{1}{4}$ "	034-294-00	1
Air Tank	034-295-00	1
Compressor T-Fitting	034-296-00	1
Push-to-Connect $\frac{1}{4}$ " NPT	034-297-00	2
Pressure Switch	034-298-00	1
Manual Inflation Valve	034-302-00	1
Tank Drain Cock	034-303-00	1
Check Valve	034-310-00	1
Female Spade Terminal*	n/a	1
$\frac{1}{4}$ " NPT Pipe Plug*	n/a	1
$\frac{3}{8}$ "-16 x 1" Hex Bolt*	n/a	4
$\frac{3}{8}$ "-16 Flanged Nut*	n/a	4
$\frac{3}{8}$ " Flat Washer*	n/a	4
10-32 x 1" Machine Screw*	n/a	3
10-32 Nylon-Lock Nut*	n/a	3
$\frac{3}{16}$ " Flat Washer*	n/a	6
15 Ft. 16 Gage Wire*	n/a	1
Quick-Splice Connector*	n/a	1
Fuse Holder*	n/a	1
20 Amp Blade Fuse*	n/a	1
Nylon Tie Wrap*	n/a	12

*Obtain replacement parts locally.

Air Compressor Accessory Kit

Figure "A"



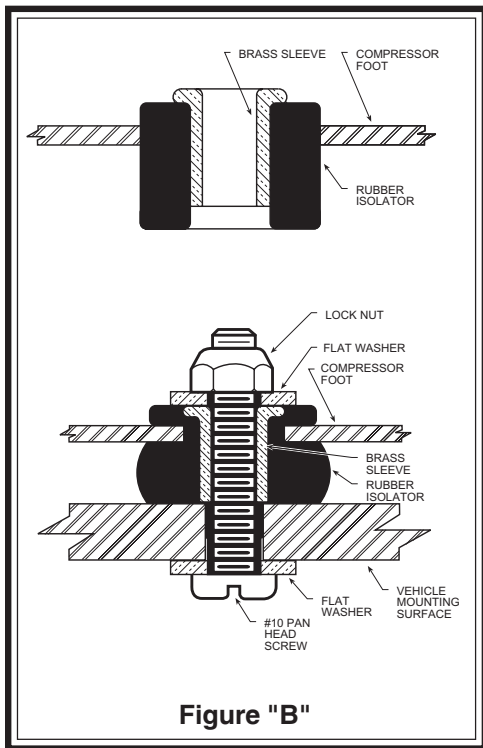


Figure "B"

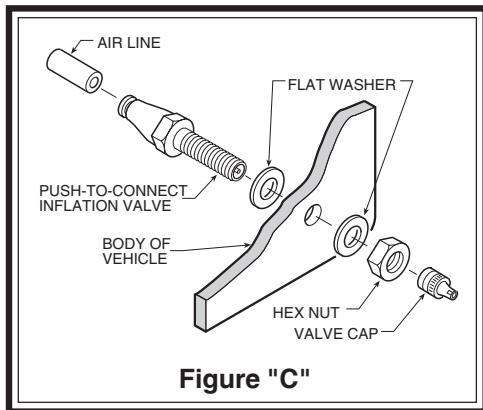


Figure "C"

Air Line Connections

Your Air Compressor Accessory Kit has push-to-connect fittings. To connect the air line tubing to the fittings, cut the tubing square and push the tubing into the fittings as far as possible.

If for any reason the tubing must be removed, first release the air pressure from the air system, then push the collar toward the body of the fitting. Now the tubing can easily be removed. To reassemble, make sure the tubing is cut square and push the tubing back into the fitting.

Step 1 - Installation of the Compressor Switch

Locate the brass compressor Tee fitting and the check valve as shown in Figure "A". These fittings have a pre-applied thread sealant on the male threads. No additional sealant is required. Install the male threaded end of the check valve into the compressor head as shown. Tighten finger-tight plus 3½ turns, then screw the Tee fitting into the check valve. Screw the pressure switch from your hardware pack into the Tee fitting, then attach the positive (red) wire from the compressor to one of the terminals on the pressure switch. Install the rubber isolators and brass sleeves to the compressor feet as shown in Figure "B".

Step 2 - Mounting the Compressor

Select a convenient location for mounting the compressor. This location should provide ample air flow and be protected from most airborne debris. The surface should be rigid to support the unit.

Using the template supplied, mark and drill three ¼" holes. It is recommended that burrs be removed from the holes so as not to damage the rubber isolators. Mount the compressor using the #10 pan head machine screws and #10 flat washers included in your hardware pack (refer to Figure "B"). The screw and nut should be tightened only enough to bottom out the brass insert. **DO NOT OVERTIGHTEN.** Further tightening will crush the insert and isolator, reducing vibration isolation. Figure "B" shows the before and after condition of the rubber isolator.

Attach the black wire from the compressor to a convenient ground source on the vehicle. Most any metal connection point common to the vehicle frame should be suitable.

Step 3 - Mounting the Air Tank

Mount two ¼" Push-to-Connect fittings into the air tank (see Figure "A"). Install the drain valve in the bottom port and use the pipe plug in the unused port.

Select a location for mounting the tank. This location should be protected to prevent damage from flying rocks or debris. Mark and drill four ¾" holes, 2½" apart. Bolt the tank in place using the ¾"-16 x 1" hex bolts, washers, and lock nuts provided. Be sure clear access is provided to the two air ports and drain valve.

CAUTION

The air tank supplied with this kit should be protected. Dents or punctures could cause air leaks, personal injury or property damage. Do not exceed 120 psi in the tank.

Step 4 - Connecting the Compressor to the Air Tank

Cut and install a length of ¼" air line tubing from the compressor to the air tank. A ragged or angled cut can cause a leak in the system. Do not fold or kink the air line tubing.

Step 5 - Connecting the Air Tank to the Air Supply or Inflation Valve

Cut and connect a length of 1/4" air line tubing from the air tank to the air springs, the optional manual inflation valve (available in this kit), or the optional automatic Ride Height control valve (refer to the Automatic Ride Height Control Kit Installation Instructions).

Dexter Axle recommends the use of both the manual inflation valve and the Ride Height control valve (refer to kit K71-632-01).

Note: Dexter Axle has provided 50 feet of air line tubing in this kit. Should your installation require more length or your tubing becomes damaged, you may use 1/4" DOT approved nylon air brake tubing which is available at most truck parts dealers.

Step 6 - Connecting Power to the Compressor

Attach the 1/4" spade connector (located in kit, attached to red wire) to the remaining stud on the compressor switch. The other end of the wire is to be attached to a positive 12 volt D.C. supply capable of handling 20 amps.

Dexter Axle recommends that the supply come from an ignition controlled circuit. This setup will provide power to the compressor only when the key is on. Consult your dealer or vehicle owners manual for proper connection to the fuse box.

Should you desire a circuit which is not ignition switch controlled, a 20 amp (minimum) switch should be placed in the system between the power supply and the compressor. To prevent the compressor from operating periodically and draining the battery, turn the switch off when the compressor is not needed. Consult your dealer or vehicle owners manual for wiring diagrams.

Note: If additional wire is needed use 16 gage multi-strand wire.

Step 7 - Test the System

Close the tank drain valve (refer to Figure "A"). For an ignition switch controlled system, turn on the ignition. The air compressor will run for a short time to build up pressure in the tank. Once the air pressure reaches approximately 120 psi in the air tank, the pressure switch will turn the compressor off. It will not restart until the pressure in the tank drops below 90 psi.

Step 8- Maintenance

Dexter Axle recommends that the air compressor filter be inspected periodically. The filter is located on the head of the compressor opposite the "Tee" air fitting. If the filter is sufficiently clogged it will require replacement. A used filter should not be cleaned and reused.

Should the compressor fail for any reason, air can be introduced into the system using the optional manual inflation valve available in this kit (see Figure "A"). Attach an air chuck to the manual inflation valve and the air system will operate using the air introduced into the system.

Compressor Mounting Template Sheet

