



ALUMINIUM AIR TANK
AIR TANK, 4 L (1 GAL), 4 PORTS
INSTALLATION GUIDE



171507



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Description

ARB's premium forged Aluminium Air Tank is four litres (one gallon) in capacity and is rated to a working pressure of 1,030 kPa (150 psi). Its aluminium construction makes it lightweight, and its universal brackets allow for easy mounting in many orientations. Its flexible four-port design permits easy daisy-chaining of additional tanks or installation in situations without cross flow. Low porting positions cycle moisture out of the air system as you consume air, which can eliminate the need to drain the tank(s) at regular service intervals. Adding this air tank to your compressed air system will increase its compressed air storage capacity and will enable your ARB Air Compressor to operate most air powered tools.

Kit Contents

This kit includes:

- 1 x Aluminium Air Tank 4 L (1 gal), 1030 kPa (150 psi) with 4 x 1/4" NPSC ports
- 2 x 1/4" NPSC to JIC-4 straight fittings
- 2 x 1/4" NPSC port plugs
- 4 x Hex bolts (M6 x 10 mm)
- 2 x Universal mounting brackets

Installation

- ☐ Firstly, determine a suitable position to mount the air tank with the following considerations:
 - The air tank should be mounted so that at least one port (the outlet) is mounted towards the ground.
 - NOTE :** This is important to avoid moisture accumulating in the air tank. Alternatively the tank should be regularly removed and drained.
 - The mounting surface must have access from the opposite side to allow tightening of the bolts/nuts. It should also be flat and allow for all four mounting bolts to be used.
 - Mounting the tank close to the compressor/manifold kit/pump up kit is desirable to reduce the length of hoses required.
 - Ensure there is enough clearance at both ends of the tank to allow the inlet and outlet hoses to be fitted.
 - If mounting the air tank under the car, ensure it is not the lowest point of the car and is well protected from damage.
- ☐ Using the M6 x 10 mm hex bolts (included), fasten both universal brackets (included) to the tank in the orientation that will best suit the final orientation of the tank (i.e. one port at the bottom). Note that these brackets can be mounted with the bases in any combination of either inward or outward from each end. Tighten to approximately 4.5 Nm (3.3 lb.ft).
- ☐ Mark the drilling positions of the mounting holes on the mounting surface.
- ☐ Before drilling the mounting holes, double check the suitability of the chosen mounting position by loosely attaching all the fittings and/or hoses to the air tank and then holding it in place.
- ☐ Drill four mounting holes measuring approximately 7-8 mm (5/16") through the marked positions in the mounting surface.
- ☐ Assemble the two 1/4" NPSC to JIC-4 straight fittings (included) into two ports of the tank in the positions where you intend to attach your input and output hoses. These can both be located on the same side of the tank as long as the port is positioned at the lowest point on the tank. Tighten to approximately 6.0 Nm (4.4 lb.ft).

- ☐ Assemble the two 1/4" NPSC port plugs (included) into the two remaining ports of the tank. Tighten to approximately 6.0 Nm (4.4 lb.ft).
- ☐ Secure the air tank using M6 bolts and lock nuts/washers (not included).
- ☐ Connect your input and output hoses to the straight fittings. Various lengths are available separately – see below.

NOTE : When tightening the JIC-4 hose couplings use one spanner to hold the JIC-4 male fitting from rotating, then use a second spanner to tighten the nut on the hose side of coupling. Tighten to approximately 16 Nm (12 lb.ft). Connection to an air compressor should only be done with durable high temperature air hose (see ARB).

- ☐ To ensure your compressed air system is as efficient as possible and the compressor does not operate unnecessarily, check all the connections for air leaks by spraying them with a small amount of soapy water and watch for the formation of bubbles.

Optional Accessories

The following parts are available for connecting the air tank to other ARB accessories such as compressors, Air Locker manifold kit, pump up kit, etc.

0740201	PTFE stainless steel braided hose, JIC-4 female, 0.3 m long
0740202	PTFE stainless steel braided hose, JIC-4 female, 0.5 m long
0740203	PTFE stainless steel braided hose, JIC-4 female, 1 m long
0740204	PTFE stainless steel braided hose, JIC-4 female, 1.5 m long
0740205	PTFE stainless steel braided hose, JIC-4 female, 2 m long
0740206	PTFE stainless steel braided hose, JIC-4 female, 3 m long
0740101	Adaptor, JIC-4 male to 1/4" NPT male (2 pack)
171301V2	Orange 7 m air inflation hose, high temperature, 150 psi working pressure
171301V3	Grey 7 m air inflation hose, high temperature, 150 psi working pressure
171302V2	Pump-up kit for hard mounted tyre inflation - Orange 7 m air inflation hose, high temperature, 150 psi working pressure - Inflation chuck - 1/4" NPT T-piece - Inflation accessories including ball and mattress attachments - Air coupling (1/4" NPT) - Air coupling dust cap
171302V3	Pump-up kit as 171302V2 with grey hose instead of orange
0740106	T-piece, 1/4" NPT, male/female/female
0740112	Quick-connect hose coupling, push-lock, "US Industrial Standard" female to 1/4" NPT male
0740111	Quick-connect hose coupling, push lock, Ø18 mm (3/5") panel mount, "US Industrial Standard" female to JIC-4 male
171328	Recreational inflation accessory kit to suit US standard air coupling - Straight high-flow tyre inflator - Schrader valve adapter for reseating tyre beads (also inflates larger size air mattress valves) - Ball inflator - 2 x mattress inflators/blowers
171503	Complete manifold kit to suit Air Locker solenoid mounting - 2 x 1/8" BSPP ports - 2 x 1/4" NPT ports - High-temperature PTFE stainless braided hose - 2 x 0740101 adaptor nipples

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