AXMINSTER TOOLS

air

AWC10HP
Air Compressor

Direct drive, oil lubricated, ducted air cooled, portable compressor

A small, direct drive, oil lubricated, ducted air cooled, portable compressor. Great in the workshop or around the home for low volume air tools such as air staplers and nailers, air brush painting, occasional tyre inflation etc. Quite a robust little unit with a cast iron cylinder for long life. Twin pressure gauges monitor receiver and output pressures. Supplied with four rubber feet, top grab handle for easy mobility, output pressure control valve and a 1/4" BSP female quick release fitting.

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Unit 10 Weycroft Avenue, Axminster, Devon EX13 5PH

www.axminster.co.uk

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Declaration of Conformity

Copied from CE Certificate

The undersigned, authorised by T. Fuhrmann

Manufactured by Qingdao D&D Electromechanical Technologies Co., Ltd. 23rd FL., D&D Fortune Center No. 182-6 Haier Road Qingdao, Shandong 266000 P.R. China.

Model number

RAC106B Air Compressor

manufactured by Qingdao D&D Electromechanical Technologies Co., Ltd. is in compliance with the standards determined in the following Council Directive.

EC Council Directive **2006/42/EC**
Low Voltage Directive **2006/95/EC**

Warning

The symbols below advise that you follow the correct safety procedures when using this machine.

Fully read manual and safety instructions before use

Ear protection should be worn

Eye protection should be worn

Dust mask should be worn

HAZARD
Motor gets hot

What's Included

Quantity	Item				Model Number
1 off:	Air Compressor		4 off Small Washers	**(D)**	RAC106B
1 off	Bottle of oil		4 off M6 Spring Washers	**(E)**	
4 off	Rubber Feet	**(A)**	4 off M6 Nuts	**(F)**	
4 off	M6x25mm Bolts	**(B)**	1 off Filter	**(G)**	
4 off	M6 Large Washers	**(C)**	1 off Instruction Manual		

Safety Precautions

Good Working Practices/Safety

The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.

WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN

Air Powered Tools

1. Always perform pre-operation checks before starting up the compressor.

2. Never leave inflammable objects or materials near to the compressor.

3. Always check oil level before using the compressor.

4. The cylinder, cylinder head and delivery pipe become hot during use. Do not touch these items while the compressor is running. Allow to cool thoroughly after shut-down before handling.

5. Do not operate above the maximum working pressure of 115 psi (7.8 bar).

6. Avoid using the compressor with an extension cable; this may reduce the supply voltage and make the motor overheat.

7. Switch the compressor on and off by using the pressure switch knob (Fig 3); only switch off at the mains in case of emergency.

8. Drain water from tank every day.

9. If the compressor shuts down through overload or overheating check the reason for the shut-down before re-starting.

10. Do not adjust the tank pressure switch without reference to Axminster Power Tool Service Department.

11. Do not remove parts from the compressor whilst it is running.

12. Do not operate the compressor with protective covers removed or damaged.

13. When spray painting always work in a well ventilated area and never close to open flames.

14. Never direct a jet of compressed air towards people or animals. Keep children and animals away from the compressor.

15. Do not use on an inclined surface.

16. Only use in ambient temperatures between –40˚C and +70˚C.

17. Only operate on 230 volt supply and with maximum fuse rating of 13 amps.

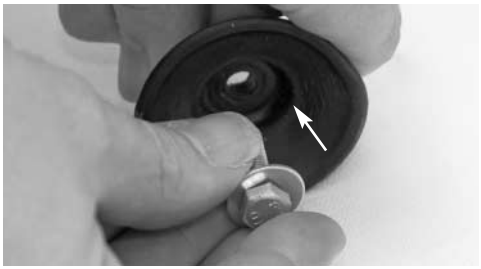
Specification (AWC10HP Air Compressor)

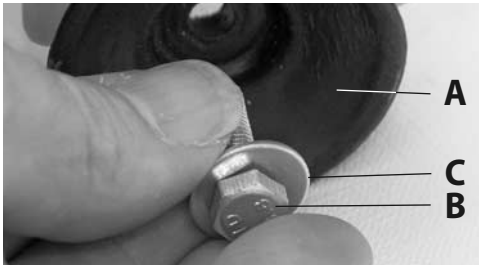
Code	501083
Rating	Light Trade
Power	750W
Free Air Delivered	@40psi - 3.5cfm, @ 90psi - 2.4cfm
Max Pressure	115psi
Noise Level at 3 meters	70dB
Receiver Volume	6 litres
Oil Capacity	100ml
Supply Requirements	230V
Overall L x W x H	515 x 240 x 465mm
Weight	14.5kg

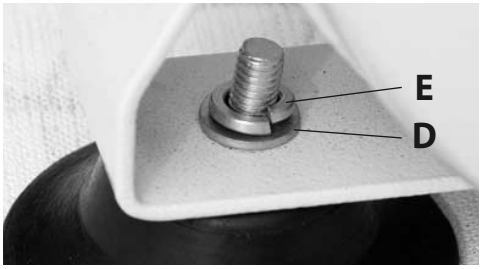
Assembly Instructions

Remove the compressor from the packaging and check for damage or missing parts. Report any problems to Axminster Power Tool Centre's Customer Services Department. Fit the rubber feet, air filter and quick release coupling. (see instructions below) Remove the oil filler plug (See fig 2) and fill with a good quality compressor oil, (see our catalogue) until the level is in line with the circle marked on the oil level indicator. (See page 05) The compressor is now ready for use.

Fitting the wheels



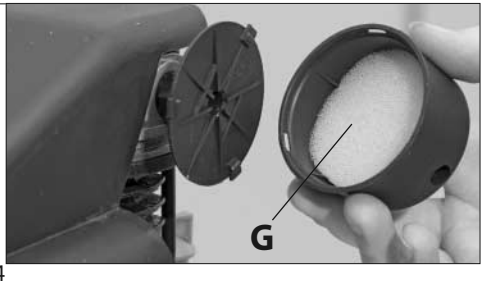




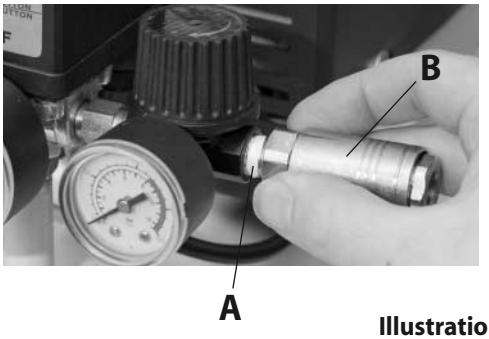
Use 10mm spanners to tighten the assembly

Fitting the air filter

Un-clip the filter container, place the filter (G) inside and reattach the container.



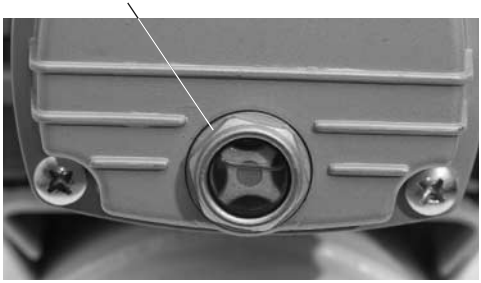
Fitting the quick release coupling



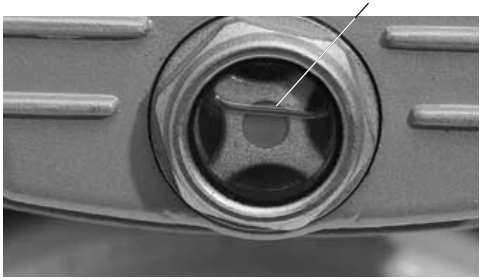
Wrap some PTFE tape **(A)** around the outlet thread and screw on the 1/4" BSP female coupling **(B)** and, lightly tighten with a spanner. **(DO NOT OVERTIGHTEN)**

Illustration and Parts Description of Air Compressor

Oil drain plug

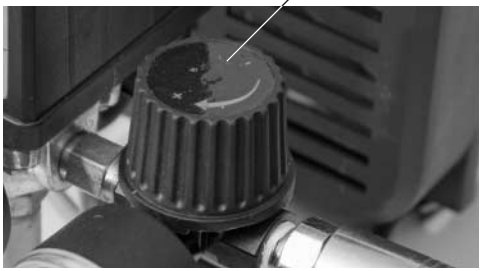


Oil level indicator



Tank pressure gauge **(A)** & Outlet pressure gauge **(B)**

Pressure regulator adjuster



Pressure relief valve

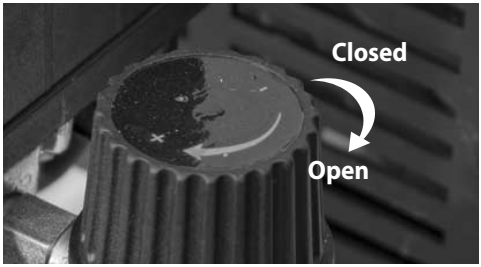
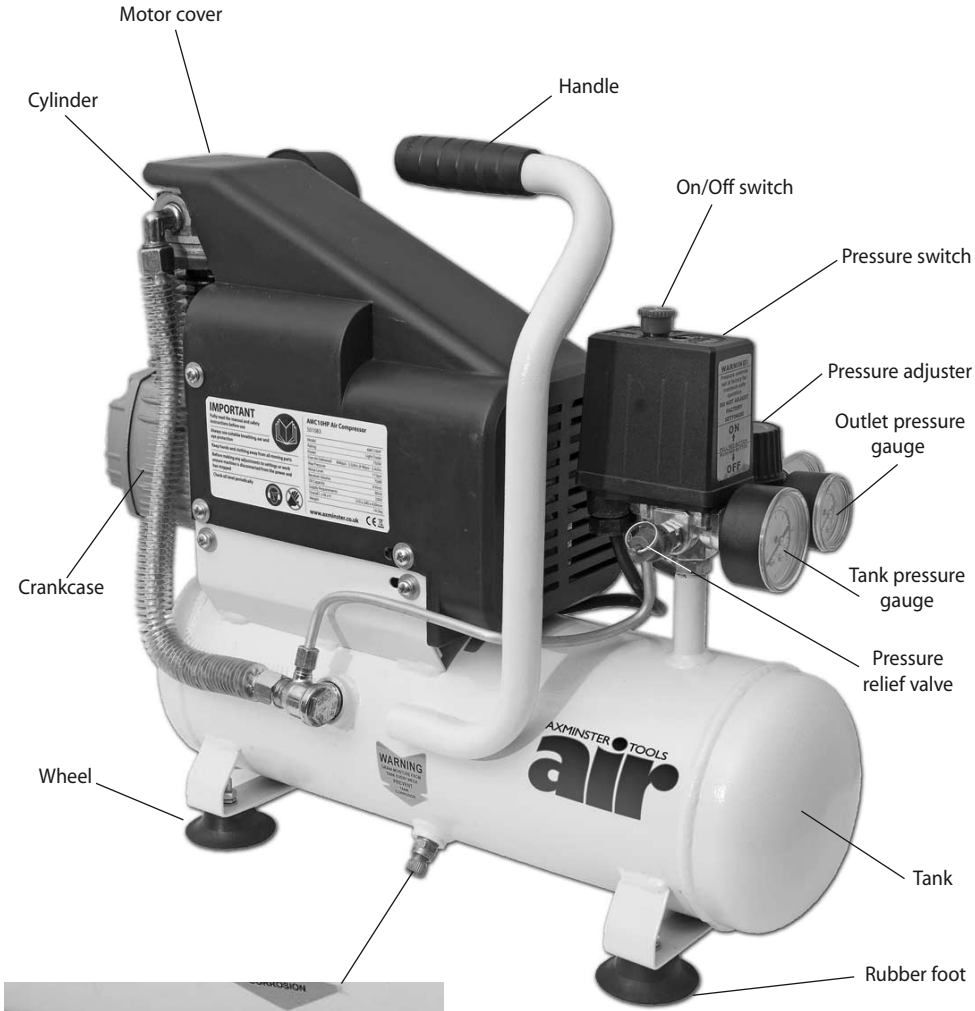
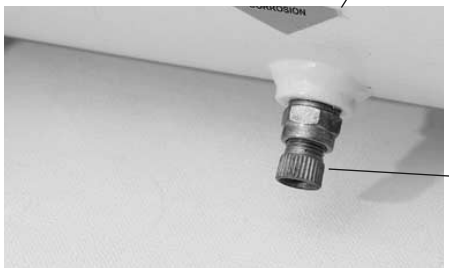


Illustration and Parts Description of Air Compressor

Fig 1





Water drain valve

Filter

Motor vents

Pressure adjuster

Air inlet filter

Fig 2

Quick release coupling

Oil filler plug

Oil level indicator and drain plug

Operating Instructions

The outlet air pressure can be regulated by rotating the regulator knob clockwise to increase the pressure and anticlockwise to reduce it. Do not leave the regulator set at maximum setting unnecessarily; reduce the setting by about two turns after finishing and then re-set to the required pressure when starting work again.

Connect the compressor to the mains supply and switch on by pulling the on/off knob upwards. (See figs 3-4) Check that the compressor pressurises the tank and shuts off when the maximum tank pressure is reached.
The compressor is automatic in operation; the pressure switch shuts the motor off when the maximum tank pressure is reached and re-starts it when the pressure drops below a pre-set level. The cut-in and cut-out pressures are factory set and should not need to be altered.

NOTE: It is advisable to fully drain the air from the tank if the compressor is left unused overnight, this will prevent the build-up of water in the tank.

Do not use dirty or non detergent oil.

Do not operate compressor in an ambient temperature above 40˚C.

Do not operate in a badly ventilated area.

Keep the air filter clean.

Fig 3

Pull up for (ON)

Fig 4

Push down for (OFF)

Daily:

Drain water from tank. (See fig 5)

Weekly:

Check oil level and top-up if necessary. (See fig 6-8)

Monthly:

Un-clip and remove the air inlet filter outer casing and clean the filter element with the following: (See fig 7)

(a) Compressed air.

(b) Wash in soapy water and left to dry.

Do not use the compressor without the air filter fitted.

Six Monthly:

Change the oil. With the oil still warm remove the oil filler plug, place a suitable container under the drain plug and drain the oil right out. Replace drain plug and refill to the level mark on the sight glass (See figs 6-8).

Yearly:

(a) Replace the air filter element.

(b) Check and clean the air intake and delivery valves.

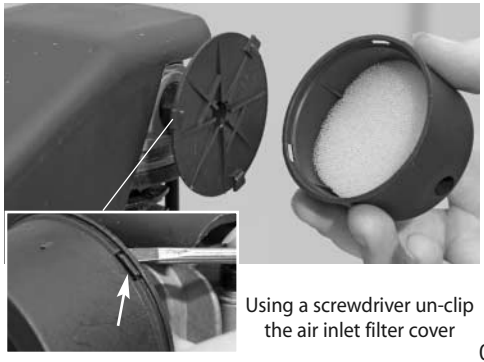
(c) Check the non return - valve and replace the seal between the crankcase and cover if necessary.

When components are removed for servicing, take the opportunity to fit new seals.

Note: (b) and **(c)** should be undertaken by a competent service engineer.

Fig 5

Fig 7



Using a screwdriver un-clip the air inlet filter cover

Fig 6

Oil level indicator

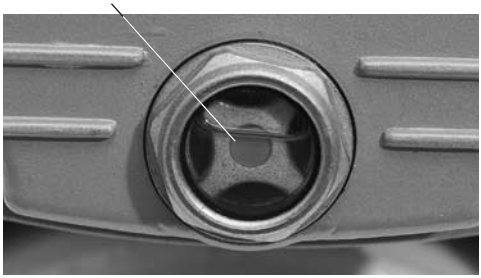
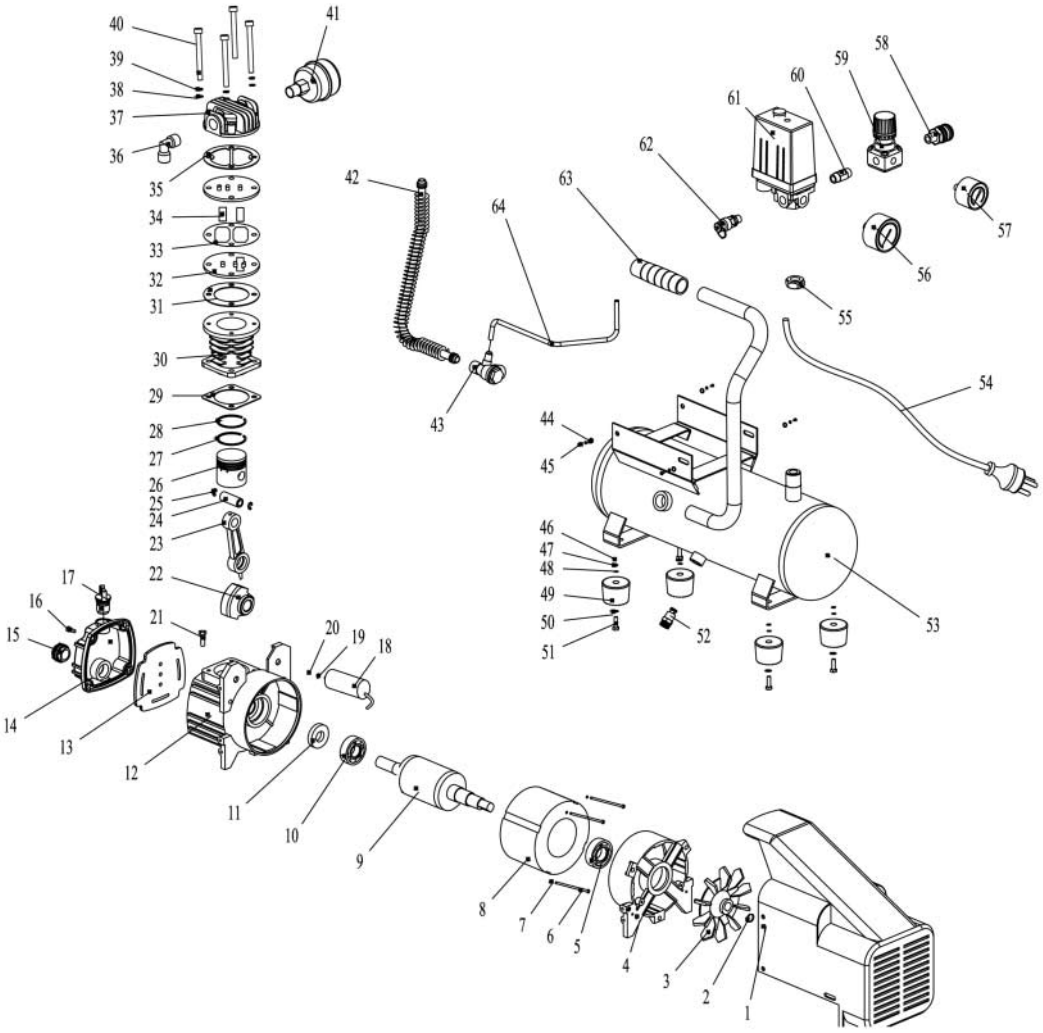


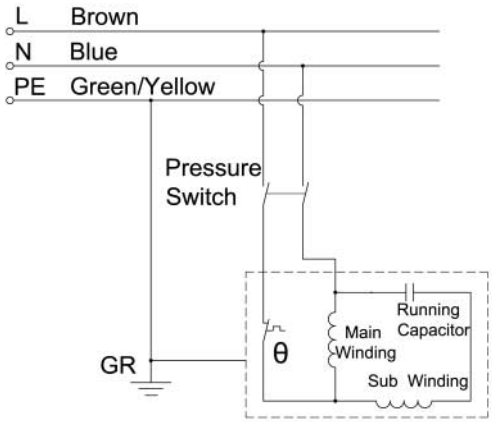
Fig 8

Parts Breakdown



Item no.	Description	QTY	Item no.	Description	QTY
1	Cowl	1.000	33	Seal gasket	1.000
2	Ring	1.000	34	Valve	2.000
3	Fan	1.000	35	Cylinder cover gasket	1.000
4	Rear end cover	1.000	36	Right-angle connector	1.000
5	Bearing	1.000	37	Cylinder cover	1.000
6	Bolt	3.000	38	Flat washer	4.000
7	Spring washer	3.000	39	Spring washer	4.000
8	Stator assembly	1.000	40	Screw	4.000
9	Rotor assembly	1.000	41	Air filter	1.000
10	Bearing	1.000	42	Discharge pipe assembly	1.000
11	Oil seal	1.000	43	Non-return valve	1.000
12	Crankcase	1.000	44	Flat washer	10.000
13	Crank case cover gasket	1.000	45	Screw	10.000
14	Crankcase cover	1.000	46	Nut	4.000
15	Oil leveler	1.000	47	Spring washer	4.000
16	Screw	4.000	48	Bright washer	4.000
17	Breath pipe assy	1.000	49	Rubber foot	4.000
18	Capacitor	1.000	50	Washer	4.000
19	Washer	2.000	51	Bolt	4.000
20	Nut	1.000	52	Drain valve assembly	1.000
22	Crank	1.000	53	Tank assembly	1.000
22	Bolt	1.000	54	Cord and plug	1.000
23	Connectiong rod	1.000	55	Nut	1.000
24	Piston pin	1.000	56	Pressure gauge	1.000
25	Ring	2.000	57	Pressure gauge	1.000
26	Piston pin	1.000	58	Quick release adaptor	1.000
27	Oil cleaning ring	1.000	59	Regulated valve assembly	1.000
28	Seal ring	2.000	60	Connector	1.000
29	Cylinder gasket	1.000	61	Pressure switch assembly	1.000
30	Cylinder	1.000	62	Shaft valve assembly	1.000
31	Valve plate gasket	1.000	63	Handle sleeve	1.000
32	Valve plate	2.000	64	Relief valve	1.000

Wiring Diagram



Trouble Shooting

PROBLEM	CAUSE	REMEDIAL ACTION
Tank pressure drops.	Leakage at connections or joints.	Set the compressor to maximum pressure. Switch off and brush a soapy water solution onto all connections and joints. Look for bubbles. Tighten connections or joints where leakage is visible.
The pressure switch valve leaks when the compressor is stopped	Non-return valve seal dirty or defective	Release any air in tank. Remove non-return valve seal. If necessary, replace the seal. Re-assemble
The compressor stops and will not start again	Bad electrical connections	Check the connections. Clean and tighten as necessary
	Current over-load protector or over-heat protector has activated.	Press the reset button on the current over-load and wait for a minute. The motor will run when it has cooled
	Motor winding burnt out	Contact Axminster Tool Centre
	Compressor head gasket blown or valve broken	Wait for compressor to cool down. Disassemble the head and replace any broken components. Carefully clean all sealing surfaces before re-assembling
The compressor does not reach the set pressure and overheats	Crank bearing failure	Stop the compressor and contact Axminster Tool Centre
The compressor is noisy. Repetitive metallic clanking	Pressure switch failure	Stop the compressor quickly. Release any air in tank and replace the pressure switch