

SC50H

AIR COMPRESSOR

OWNER'S MANUAL



FOR YOUR SAFETY
PLEASE READ THESE INSTRUCTIONS CAREFULLY
AND RETAIN THEM FOR FUTURE USE.

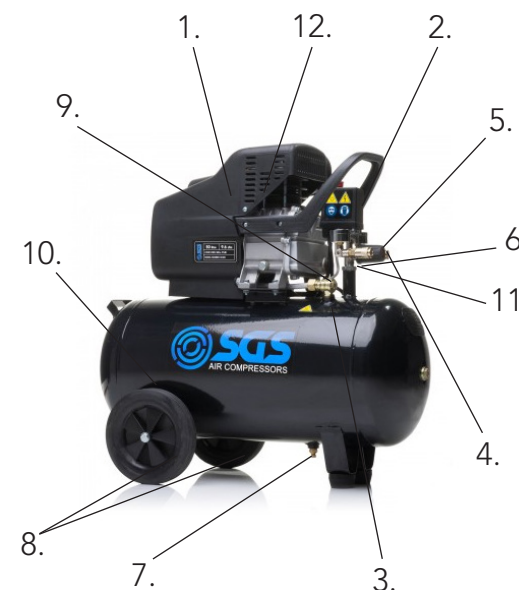


SPECIFICATION

ITEM	DATA
Model	SC50H
Power	1.8 kW / 2.5 HP
Voltage	230 V
Frequency	50 Hz
Motor Poles	2 P
Rated Speed	2850 rpm
Current	7.5 A
Delivery	9.6 CFM
Discharge Pressure	115 PSI / 0.8 MPa
Restart Pressure	70 PSI / 0.5 MPa
Tank Capacity	50 L
Dimensions	770x330x730 mm
Air Outlet Size	1/4"
Net Weight	38 kg
Noise Information	LWA 97 dB

MAIN COMPONENTS

1. Main compressor
2. Pressure switch
3. Outlet Valve
4. Regulating Valve
5. Pressure gauge
6. One-way Valve
7. Drain cock
8. Wheels
9. Discharge pipe
10. Air tank reservoir
11. Safety valve
12. Fan cover



LIST OF GOODS

ITEM	LIST OF GOODS	QTY
1	Air Compressor	1
2	Air Filter	1
3	Breather Pipe	1
4	Wheel	2
5	Wheel Axis	2
6	Spare Rubber Gasket	1 or 2
7	Instruction Manual	1

WARNING SYMBOLS



READ THIS INSTRUCTION MANUAL CAREFULLY BEFORE OPERATING OR ADJUSTING THE COMPRESSOR.



Risk of electric shock. The compressor must be disconnected from the mains supply before maintenance or removing any covers. Do not use in a damp environment.



Risk of accidental start-up. The compressor could start automatically in the event of a power cut and subsequent reset. Do not carry the compressor while it is connected to the power source, or when the tank is filled with compressed air.



This compressor contains surfaces which may reach a high temperature during operation. Never operate with the motor housing removed.



Air and condensation water can burst from the compressor when the drain plug is removed.



Wear a safety goggles and ear protectors when using this compressor.

This compressor produces a high sound level during operation. Ear protection should be worn.

SAFETY PRECAUTIONS

WARNING

TRAINING: Prior to use, all users must become familiar with the instructions given in this manual. In particular, become familiar with the ON/OFF control for stopping the compressor in the event of an emergency.

ALWAYS USE EYE PROTECTION: When operating the air compressor, always use eye protection such as goggles, and make sure that other people in the work area are also using eye protection. Eye protectors must provide protection from flying particles both from the front and from the side.

PROTECT YOUR HEARING: Hearing protection should be worn when operating this compressor, use ear plugs or ear defenders.

NEVER TOUCH MOVING PARTS: Never place your hand near any moving parts on the air compressor or operate with the covers removed.

PROTECT YOUR SELF AGAINST ELECTRIC SHOCK: Never operate the air compressor in wet or damp locations.

DRESS PROPERLY: Loose clothing or jewellery may be caught in moving parts. Always tie long hair back, and wear suitable clothing.

SAFETY PRECAUTIONS

KEEP VISITORS/CHILDREN AWAY: Do not allow visitors/children to handle the air compressor or attachments and ensure that any people in the work area are suitably dressed.

KEEP THE WORK AREA CLEAN: Cluttered areas mean accidents, so clear the work area of all unnecessary tools, debris and furniture.

DO NOT TOUCH HOT SURFACES: During operation, the motor, connections, compressor body, cylinder head and tubes may get hot, do not touch.

DO NOT DIRECT AN AIR STREAM AT THE BODY: Do not direct the air stream at people or animals, as injury may result. Compressed air can cause soft tissue damage and propel dirt and other particles at high speed.

BREATHING AIR: This compressor should not be used to supply breathing quality air. Never use it as breathing apparatus.

STAY ALERT: Watch what you are doing, use common sense, and do not operate the air compressor when you are tired. The air compressor should not be used if you are under the influence of alcohol, drugs or any medication that makes you drowsy.

DISPOSAL INFORMATION

The air compressor should be disposed of in a safe and environmentally friendly manner. Contact your local Council for disposal assistance.

SAFETY PRECAUTIONS

DISCONNECT THE AIR COMPRESSOR: Always disconnect the air compressor from the mains power supply and decompress before performing maintenance, changing any parts and when not in use.

MAINS POWER CABLE PRECAUTIONS: Never pull on the cable when removing the plug from the mains socket, or lift the compressor by the mains cable.

AVOID UNINTENTIONAL STARTING: When connecting the air compressor to the mains supply make sure the red button on top of the air compressor is in the OFF (down) position.

STORE THE AIR COMPRESSOR PROPERLY: When not in use the air compressor should be stored in a secure, dry place out of the reach of children. Always lock up the storage area.

MAINTAIN THE AIR COMPRESSOR WITH CARE: If the air compressor is damaged in any way, have it repaired by a qualified engineer.

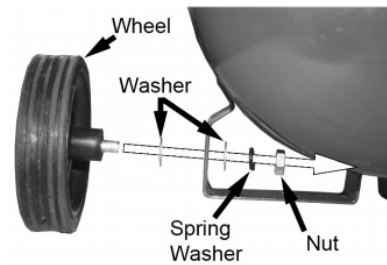
DO NOT USE EXTENSION LEADS: Using extension leads can cause your compressor motor to burn out. Only use extension hoses.

DO NOT WELD TO THE PRESSURE VESSEL

Do not weld or modify the pressure vessel in any manner.

ASSEMBLY

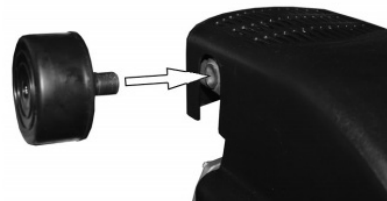
Attach the wheels to the compressor.



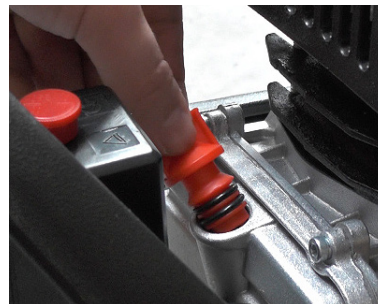
Remove the travel bung.



Screw in the air filter.



Remove the travel bung and fit the oil breather pipe.



BEFORE USE

1. Set the ON/OFF switch to the-OFF position (pushed down).



2. Make sure that the compressor is on level ground and check that the oil level is half way up the oil sight glass



3. If not, remove the breather plug and fill with compressor oil (our part code SO2068)



OPERATION

1. Attach a hose to the quick release coupler on the compressor and to an air tool.



2. Turn the compressor on by lifting the on/off button. The compressor will operate until the tank is fully pressurised before switching off. The compressor will start again when the tank pressure drops.



3. Set the regulator to the correct pressure for the air tool (check in the air tool manual). The user-set output pressure is shown on the left gauge. The right hand gauge shows the tank pressure.



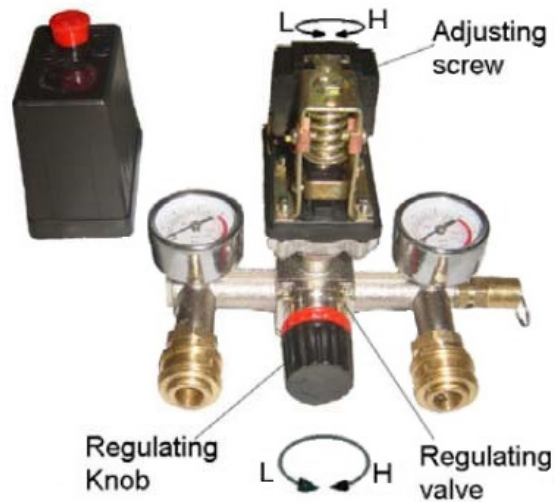
SWITCHING OFF

1. Push down on the on/off switch to turn the compressor off.
2. Operate the air tool to depressurise the air hose.
3. Disconnect the tool from the hose.
4. Open the drain cock to remove any condensation from the compressor.



PRESSURE ADJUSTMENT

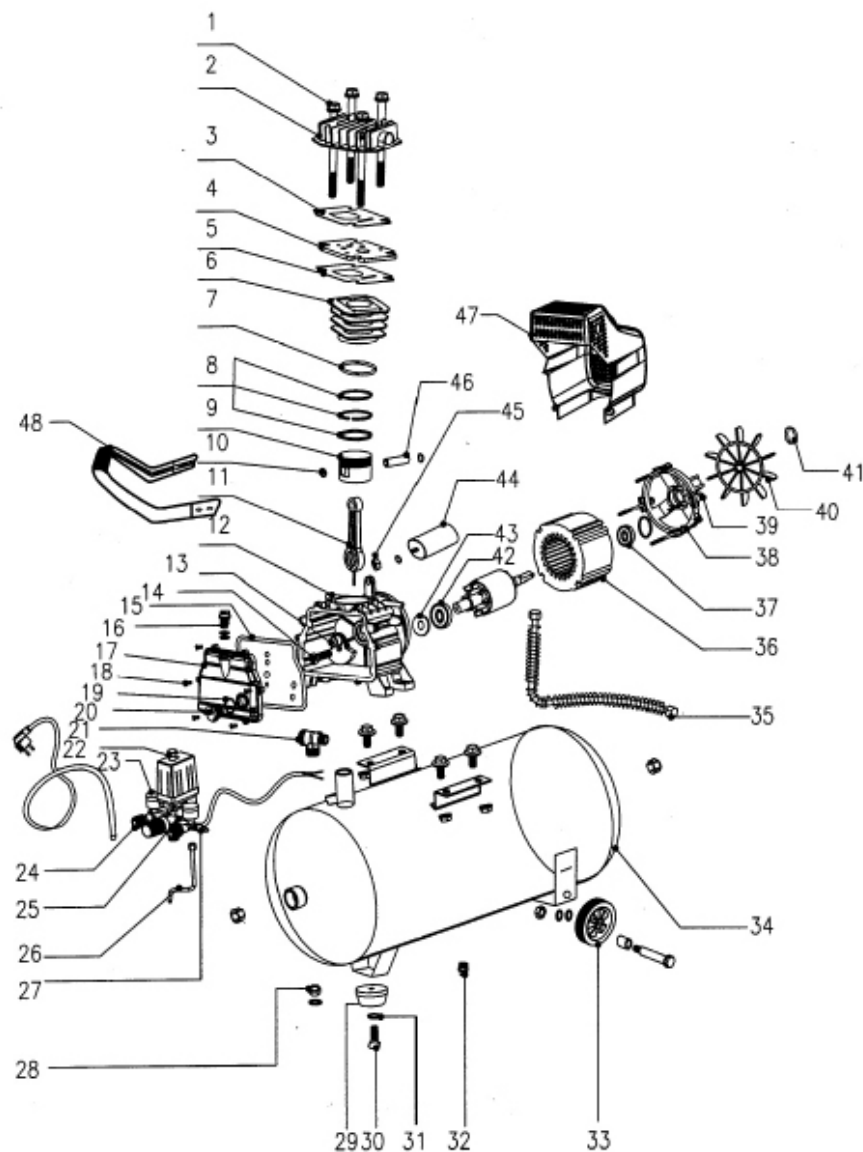
- The compressor is controlled by a pressure switch. It can be stopped automatically as the pressure increases to the maximum and restarted as pressure decreases to the minimum. The rated pressure has been adjusted during the manufacture process - don't alter it carelessly.



TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	ACTION
Motor unable to run, running slow or getting hot	- Fault in line or insufficient voltage - Power wire too thin or long - Fault in pressure switch - Fault in motor - Sticking of main compressor	- Check the line - Replace the wire - Repair or replace - Repair or replace - Check and repair
Sticking of main compressor	- Moving parts burnt due to insufficient oil - Moving parts damaged or stuck by a foreign body	Check crankshaft, bearing, connecting rod, piston, piston ring, etc. and replace if necessary
Shaking or abnormal noise	- Connecting part loose - Foreign body in the main compressor - Piston knocking the valve seat - Moving parts seriously worn	- Check and retighten - Check and clean away - Replace with thicker paper gasket - Repair or replace
Pressure insufficient or discharge capacity decreased	- Motor running too slow - Air filter choked up - Leakage of safety valve - Leakage of discharge pipe - Sealing gasket damaged - Valve plate damaged, stuck or carbon build up - Piston ring and cylinder worn or damaged	- Check and remedy - Clean or replace the cartridge - Check and adjust - Check and repair - Check and replace - Replace and clean - Repair or replace
Excessive oil consumption	- Oil level too high - Breather pipe choked up - Piston ring and cylinder worn or damaged	- Keep the level within set range - Check and clean - Repair or replace

REPLACEMENT PARTS DIAGRAM



PARTS LIST

No.	Part No	Part	No.	Part No	Part
1	904879	Bolt M8x110	25	900107	Manifold
2	901602	Cylinder head	26	900071	Release pipe
3	903717	Cylinder head gasket	27	900073	Safety valve
4	901787	Valve plate	28	901995	Nut 8
5	900080	Valve gasket	29	900114	Washer foot
6	901746	Cylinder	30	902525	Bolt M8x25
7	900109	Cylinder gasket	31	903393	Washer 8
8	901778	Piston ring	32	900070	Drain cock
9	901881	Piston	33	900118	Wheel
10	905294	Cir-clip	34	901287	Air tank
11	905295	Connecting rod	35	900110	Discharge pipe
12	905296	Crankcase	36	901886	Motor
13	905297	Crank	37	905301	Bearing 5202 RS
14	903627	Bolt M8x22-right	38	905302	Motor bracket
15	900083	Rubber gasket	39	903830	Bolt M5x105
16	900069	Breather pipe	40	900078	Fan
17	905298	Crank case cover	41	905303	Cir-clip
18	904955	Screw M5x14	42	905304	Bearing 5204 RS
19	905299	Oil leveller washer	43	905305	Sealing ring
20	905300	Oil leveller	44	901383	Capacitor
21	900081	Non-Return Valve	45	901995	Nut M8
22	900666	Pressure switch	46	905306	Piston pin
23	900122	Pressure gauge	47	900076	Fan filter
24	900091	Outlet valve	48	900117	Handhold

CAUTIONS

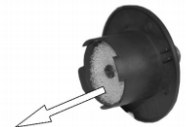
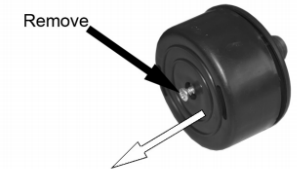
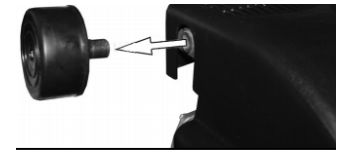
1. Disconnect power source then release all pressure from the system before attempting to install, service, relocate or perform any maintenance.
2. Never unscrew any connecting part when the tank is pressurised.
3. Never disassemble any electrical part before disconnecting the plug.
4. Never adjust the safety valve carelessly.
5. Never use the compressor where voltage is too low or too high.
6. Never disconnect the plug to stop the compressor, set the switch knob to the off position instead.
7. Lubricating oil must be clean and at the level indicated.
8. Clean crankcase and renew lubricating oil after the first 10 working hours. Check the oil level after every 20 working hours, and replenish if necessary.

MAINTENANCE

CLEAN THE AIR FILTERS (MONTHLY)

The air filters must be examined monthly and more often in dusty conditions:

1. Unscrew the filters from the compressor.
2. Remove the filter covers from the filters.
3. Clean the sponge and the filter cover using a soft brush. If necessary, the filters can be carefully cleaned in warm soapy water. Rinse and let the filters dry completely before refitting.
4. Make sure that the filters and filter covers are replaced into position. If the filters are damaged, you must replace them.



CLEANING

1. Open drain cock under the tank to ex-haust condensate after every use. Clean the crank case and replace the lubricating oil after the first 10 working hours.
2. Check the oil level through the sight-glass before every use and replenish if necessary. Change the oil (drain all old oil and replace) after every 120 working hours.





SGS Engineering (UK) Ltd
Unit 1, West Side Park
Raynesway
Derby, DE21 7AZ

EC Declaration of Conformity

This is an important document and should be retained

MANUFACTURER'S NAME: SGS Engineering (UK) Ltd

TYPE OF EQUIPMENT: Air compressor

PART NUMBER: SC24H/SC50H

PARAMETERS:

Rated voltage:
230VAC; 230VAC; 230VAC; 230VAC; 220-240VAC;
220-240VAC, 230VAC, 220-240VAC; 220-240VAC
Rated power: 1800W
Rated frequency: 50Hz
Protection class: I
Degree of protection: IPX2
Max. working pressure :
0.8 MPa; 0.8 MPa; 1.0 MPa; 0.8 MPa; 1.0 MPa; 1.0
MPa; 1.0 MPa; 1.0 MPa; 1.0 MPa
Remark: Only used indoors

TESTED ACCORDING TO: EN 1012-1:2010

I, the undersigned, hereby declare that the equipment specified above conforms to the above European Communities Directive(s) and Standard(s).

PLACE: Derby, UK

DATE: 6th SEPT 2018

A handwritten signature in black ink, appearing to read 'Robert Wyatt', written over a horizontal line.

(Signature)

Robert Wyatt

Company Secretary