

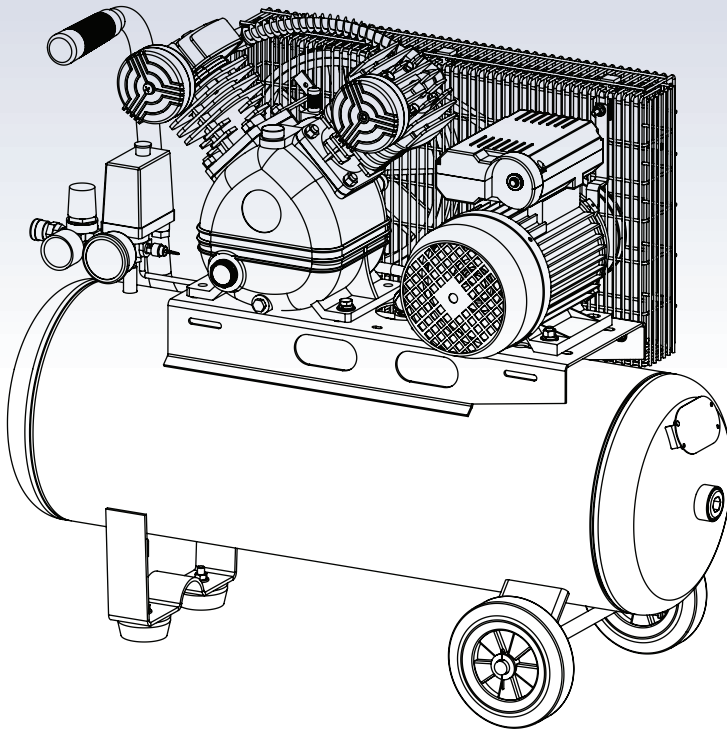


TRADE SERIES
AIR COMPRESSOR

2.2HP
50LTR

BELT DRIVE AIR COMPRESSOR

OPERATOR'S MANUAL



TM354-22050

Ver: 1.0

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LIMITED WARRANTY

Industrial Tool & Machinery Sales (hereinafter referred to as ITMS) will, within twelve (12) months from the original date of purchase, repair or replace any goods found to be defective in materials or workmanship.

This warranty is void if the item has been damaged by accident, neglect, improper service or other causes not arising out of defects in materials or workmanship. This warranty does not apply to machines and/or components which have been altered, changed, or modified in any way, or subjected to overloading or use beyond recommended capacities and specifications. Worn componentry due to normal wear and tear is not a warranty claim. Goods returned defective shall be returned prepaid freight to ITMS or agreed repair agent, which shall be the buyer's sole and exclusive remedy for defective goods. ITMS accepts no additional liability pursuant to this guarantee for the costs of travelling or transportation of the product or parts to and from ITMS or the service agent or dealer, such costs are not included in this warranty.

Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE IMPROVEMENTS AND MODIFICATIONS TO DESIGN WITHOUT PRIOR NOTICE.

PRODUCTS IMPORTED AND DISTRIBUTED NATIONALLY BY:



INDUSTRIAL TOOL & MACHINERY SALES
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! SAFETY INFORMATION

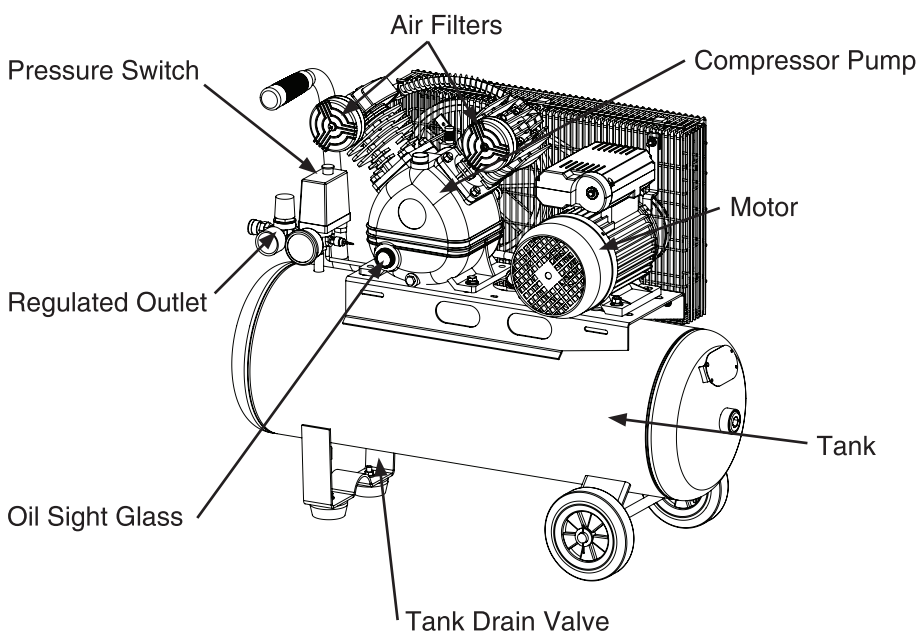
Please read and understand this entire manual before attempting to operate the product. Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operation instructions before using this equipment. When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury.

ITM air compressors are manufactured to AS1210 Standards.

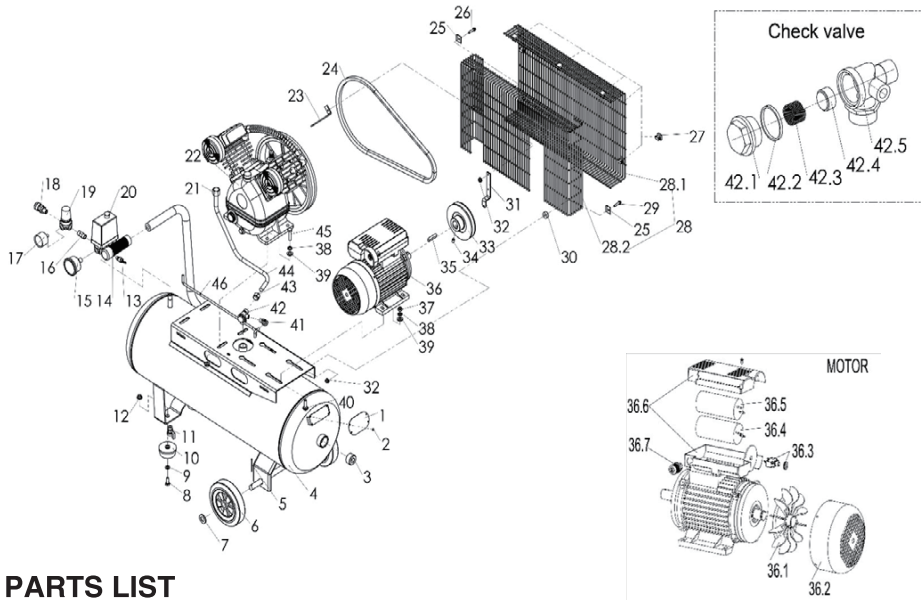
This air receiver is registered with WorkSafe Australia to comply with plant registration regulations in Australia.

PRODUCT SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Motor	2.2HP / 1.5KW
Rated Speed	2,850 RPM
Voltage	240V / 50 Hz
Tank Capacity	50 Litre
Max Pressure	116 psi (8 Bar)
Free Air Delivery	170 Ltr/min
Circuit Required	10 Amp
Pump Type	Belt Drive



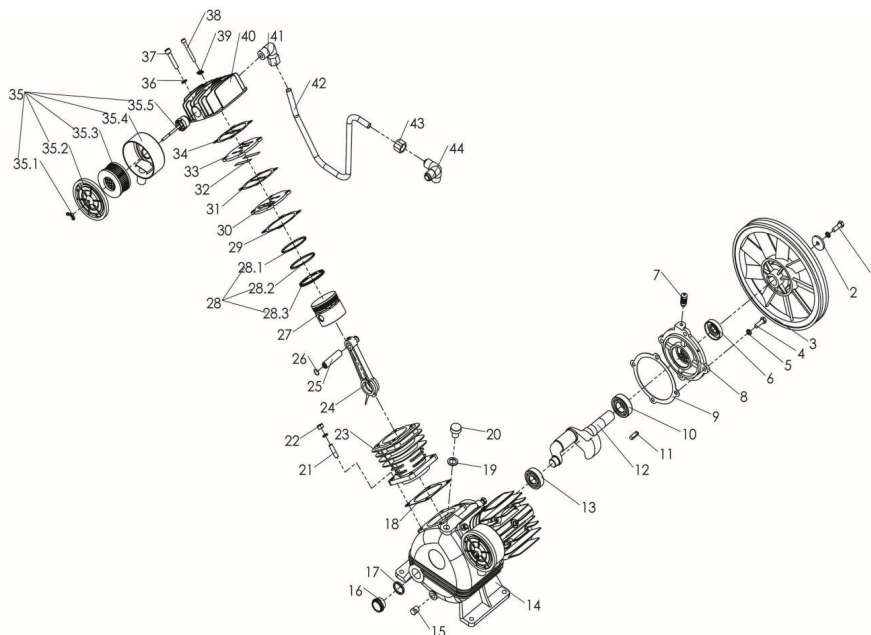
PARTS DIAGRAM - MAIN ASSEMBLY



PARTS LIST

No.	Qty.	Part Name	No.	Qty.	Part Name	No.	Qty.	Part Name
1	1	Tank name plate	24	1	V-Belt	38	8	Sp. Washer
2	4	rivet	25	4	Steel clip	39	8	PL. Washer
3	2	Plug, Socket head	26	2	Hex. Bolt	40	4	Bolt
4	1	Air Tank	27	7	Plastic clip	41	1	Elbow fitting
5	2	Cotter pin	28	1	Belt guard	42	1	Check Valve
6	2	wheel	28.1	1	Belt guard (FR)	42.1	1	Bonnet
7	2	PL. Washer	28.2	1	Belt guard (RR)	42.2	1	O-ring
8	2	Hex. Bolt	29	2	Hex. Bolt	42.3	1	Spring
9	2	PL. Washer	30	1	Rubble washer	42.4	1	valve element
10	2	Rubber foot	31	1	Guard bracket	42.5	1	valve body
11	1	Ball valve	32	4	Hex. Nut	43	1	Sleeve nut
12	6	Hex. Nut	33	1	Motor pulley	44	1	Copper tube
13	1	Safety valve	34	1	Set screw	45	4	Hex. Bolt
14	1	Grip, Handle	35	1	Key	46	1	Discharge Tube
15	1	Pressure gauge	36	1	Motor			
16	1	Nipple	36.1	1	Fan			
17	1	Pressure Gauge	36.2	1	Fan cover			
18	1	Quick Coupler, Nitto	36.3	1	Overload protector			
19	1	Pressure Regulator	36.4	1	Capacitance,45uf/450VAC			
20	1	Pressure switch	36.5	1	Capacitance,150uf/350VAC			
21	1	Sleeve nut	36.6	1	Capacitance box			
22	1	Pump	36.7	1	Cable clamp			
23	1	Bracket	37	4	Hex. Nut			

PARTS DIAGRAM - PUMP



PARTS LIST

1 Hex.Bolt	21 Stud Bolt	35.3 Element
2 PL.Washer	22 Hex.Nut	35.4 Case
3 Flywheel	23 Cylinder	35.5 Screw
4 Hex.Bolt	24 connecting rod	36 SP.washer
5 Sp.Washer	25 Piston pin	37 Hex.socket screw
6 Oil seal	26 Circlip	38 Hex.socket screw
7 Breather	27 Piston	39 SP.washer
8 Front Cover	28 Piston ring Kit	40 Cylinder head
9 Gasket, Front Cover	28.1 Compression Ring	41 Elbow fitting
10 Bearing 6204	28.2 Scraping Ring	42 Copper tube
11 Key	28.3 Oil Ring	43 Sleeve nut
12 Crankshaft	29 Gasket, Valve	44 3-way manifold nipple
13 Bearing 6205	30 Valve Seat1	
14 Crankcase	31 Gasket, Valve blade	
15 Plug	32 Blade, Valve	
16 Sealing	33 Valve seat2	
17 Oil sight glass	34 Gasket, Cylinder cover	
18 Cylinder gasket	35 Air filter Ass'y	
19 O ring	35.1 Butterfly.Nut	
20 Oil cap	35.2 Case	

GENERAL SAFETY RULES FOR OPERATION

Before attempting to operate this compressor the following basic safety precautions should always be taken to reduce the risk of fire and personal injury. It is important to read the instruction manual to understand the application, limitations and potential hazards associated with any tool. They are designed for the safety of yourself and others, ensuring a long and trouble free service life from your machine.

Work Area

- a. Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b. Floors should be kept clean and free from rubbish. Special care should be taken if the floor is slippery due to sawdust or wax.
- c. Keep children and bystanders away while operating a compressor. Distractions can cause you to lose control.
- d. Do not use compressor in areas where there is a risk of explosion or fire from combustible materials, flammable liquids, e.g., paint, varnish, petrol etc or flammable gases and dust of an explosive nature.

Electrical Safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. Do not expose the compressor to rain or wet conditions. Water entering the electric motor will increase the risk of electric shock.
- c. Do not abuse the cord. Never use the cord for pulling or unplugging the compressor. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

Personal Safety

- a. Stay alert, watch what you are doing and use common sense when operating a compressor. Do not use while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating this compressor may result in serious personal injury.
- b. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Avoid accidental starting. Ensure the switch is in the off-position before plugging in.
- d. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- e. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

GENERAL SAFETY RULES FOR OPERATION

General

- a. Do not operate the compressor without the belt guard being correctly fitted.
- b. Do not attempt to modify the compressor in any way.
- c. The use of any tool or accessory other than those designed for use with compressed air could result in injury to the operator.
- d. The output pressure of the compressor should be adjusted to the design pressure of the air tool or accessory being used.
- e. Always check that the output of the compressor does not exceed the maximum pressure for any attached tool or accessory.
- f. Repairs should only be carried out by qualified persons using original spare parts. Failure to do so may result in considerable danger to the user.

Breathable Air Warning

This compressor/pump is not equipped and should not be used to supply breathing quality air for any application of air for human consumption.

Check Damaged Parts

Before using the compressor it should be carefully checked to determine that it will operate properly and perform its intended function. Check for the correct alignment of moving parts ensuring they do not bind. Check for broken or missing parts and have them replaced or repaired at an authorised service centre. Check any other condition that may affect the operation of the compressor. A guard or any other part of the compressor that is damaged should be properly repaired or replaced by an authorised service centre.

Disconnect Compressor

Ensure that the compressor is disconnected from the mains supply and the tank is empty when not in use, before servicing, lubricating or making adjustments to air lines when changing accessories such as blades, bits, nails and cutters on air tools.

Avoid Unintentional Starting

Ensure that the switch is in the OFF position before plugging the compressor into the mains supply

Turning The Compressor ON And OFF

Only turn the compressor on and off by using the knob on top of the pressure switch, do not leave it on and switch the compressor on or off from the power supply. Turning the unit on and off from the mains supply only will result in damage to the motor and void warranty as the pressure switch has an additional function to purge the air trapped in the delivery pipe when the motor is turned off. This minimises the load on the motor when it is next started

GETTING STARTED

Assembly

This air compressor requires some minor assemble before it can be used.

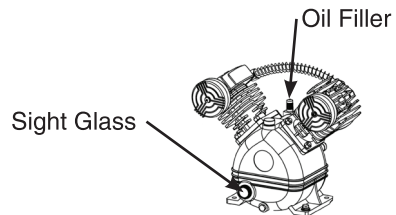
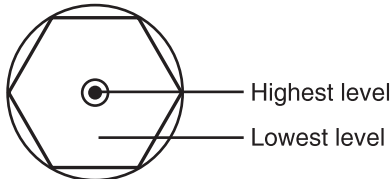
Locate the accessory pack/s. These should contain :

1. Wheel/s and axle set.
2. Rubber stoppers.
3. Air filters.
4. Oil filler breather.

Position the unit on a even surface:

1. Fit the wheel/s to the unit.
2. Fit the rubber stoppers to the legs of the unit.
3. Remove the plastic transit plugs from the cylinder heads and screw in the plastic air filters.
4. Remove the plastic transit plugs from the pump oil filler hole and screw in the oil filler breather.

Oil Warning : Check the oil level before using the compressor.



Check the oil level. If necessary add oil until it reaches the red mark on the sight glass. Do Not over fill.

NOTE: The oil must be changed after the first 10 hours of operation then every 50 hours thereafter. Recommended compressor oil:

AGIP	DICREA100	MOBIL	RARUS 427
BP	ENERGOL CS100	FINA	EOLAN AC 100
SHELL	COREMA OIL H10	CASTROL	AIRCOL PD100
ESSO	EXXC OLUB 150	TOTAL	CORTUSA 100
FUCHX	RENOLIN 104L VG 100	API	CM-8X
IP	CALATIA OIL ISO 100		

(Suitable for room temperature ranging from +5°C to +25°C)



WARNING

Ensure the compressor is disconnected from the power supply when performing maintenance tasks to avoid injury.

MAINTENANCE REQUIRED	FREQUENCY
Check pump oil level	Before each use
Drain the condensation from the air tank	Before each use
Check for loose nuts / bolts and tighten	Before each use
Check for air leaks	Before each use
Remove air filter and clean (or replace as required)	Weekly
Check belt tension	Weekly
Change pump oil	Every 6 Months
Tighten cylinder head bolts	Every 6 Months
Clean and check non return valve	Every 6 Months

TROUBLE SHOOTING

TROUBLE	POSSIBLE CAUSES	REMEDIES
Motor unable to run or running slow	<ul style="list-style-type: none"> Fault in line, or voltage insufficient Power wire too thin or too long Fault in pressure switch Fault in motor Sticking of main compressor 	<ul style="list-style-type: none"> Check the line Replace the wire Repair or replace Repair or replace Check and repair
Sticking of main compressor	<ul style="list-style-type: none"> Moving parts burnt due to the oil insufficient Moving parts damaged, or stuck by foreign body 	Check crankshaft, bearing, connecting rod, piston, piston ring, etc. and replace if necessary
Excessive vibration or abnormal Noise	<ul style="list-style-type: none"> Connecting part loose Foreign body got into main compressor Piston knocking valve seat Moving parts seriously worn 	<ul style="list-style-type: none"> Check and retighten Check and clean away Replace with thicker paper gasket Repair or replace
Pressure insufficient or discharge capacity decreased	<ul style="list-style-type: none"> Motor running too slow Air filter choked up Leakage of safety valve Leakage of discharge pipe Sealing gasket damaged Valve plate damaged, carbon buildup or stuck Piston ring and cylinder worn or damaged 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Oil level too high Breath pipe choked up Piston ring and cylinder worn or damaged 	<ul style="list-style-type: none"> Keep the level within set range Check and clean Repair or replace