

# SIFCO®

## Titan 50s Air Compressor

### Instructions and Spare Parts Manual



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# TITAN 50S AIR COMPRESSOR

## INSTRUCTIONS AND GUARANTEE

### FOREWORD

This manual has been prepared to facilitate the use and servicing of your compressor. If followed carefully, these instructions will ensure efficient operation and low maintenance costs. Sections marked by the word **IMPORTANT** contain special directions which, if not properly carried out, can cause damage to persons and property. Only the use of original spare parts will ensure the efficiency and working life of your compressor.

### INITIAL CHECK-LIST

- Make sure compressor is in perfect condition
- Use dip-stick to check oil level in crank case. It should be midway between the minimum and maximum (Fig. 1); use SIFCO BCNZ618 pump oil or any Heavy Duty SAE30 oil

**IMPORTANT:** Seizing and serious damage can occur if oil level is below minimum

### INSTALLATION

Install compressor only in well-ventilated rooms as free as possible of dust and excess moisture.

Do not use the compressor if it is installed on floors with a slope of more than 15 degrees (fig. 9). Always position the compressor at least 50cm from any obstacles that could obstruct the passage of air and hence affect the cooling system.

### ELECTRIC POWER

Compressor should be located AS CLOSE AS POSSIBLE to 240 volt 50 cycle mains power – extension power cords should be capable of carrying 15 AMP and should not exceed 4 metres in length.

### INITIAL START UP

- Let compressor run for 2 minutes with the air bleed cocks fully open so as to ensure proper lubricant circulation
- Close cocks and make sure that compressor stops when maximum pressure is reached in tank
- Compressor's running is fully automatic; the pressure switch stops the motor when maximum set pressure is reached and restarts it when pressure falls below minimum set point

**IMPORTANT:** Proper automatic running is signalled by the release (hiss) of air under pressure switch every time the motor stops

**IMPORTANT:** Never use the wall switch to stop the compressor. To start or stop compressor always use the pressure switch on/off control (Fig 2). This allows the air in the head to be released and facilitates subsequent restarting.

**IMPORTANT:** Pressure cannot be regulated by the pressure switch

### REGULATING WORKING PRESSURE

Compressed air output pressure can be set to desired pressure on filter/regulator. Just turn the knob B clockwise to increase and anti-clockwise to decrease pressure (Fig 3). The compressed air output setting is shown by the pressure gauge of the pressure reducer.

**IMPORTANT:** If pressure is kept at maximum setting for a prolonged period of time, it can cause the regulator's diaphragm to become worn. After use, reset regulator at zero by turning knob B.

### OVERLOAD CUTOUT

Compressor is fitted with a motor-protector, which automatically interrupts the electrical power supply if an overload occurs. In this case, disconnect the power supply and wait a few minutes before resetting the motor-protector manually (fig 8), then restart the compressor. If the motor-protector trips again, disconnect the power supply and contact a SIFCO service centre.

**PERIODIC SERVICING:** Turn the compressor off and let all the air out of the tank before carrying out any maintenance work.

**After the first 50 working hours:**

- Change the oil completely
- Tighten head lock screws
- Make sure all screws are tight

**Weekly:**

- Check oil levels (Fig 1) and top up if necessary
- Drain condensation by opening cock C under tank (Fig 5)

**Monthly:**

- Remove intake filter F and clean (Fig 4). Change filter element yearly

**Every 500 working hours or six months:**

- Change compressor oil by removing dipstick and unscrewing screw B (Fig 6) and draining into a container
- Thoroughly clean all external compressor and motor parts. This is necessary to ensure proper cooling and longer working life

**Every 2000 working hours or two years:**

- Check and clean intake and delivery valves
- Check non-return valve and replace seal if necessary (Fig 7)

**TROUBLE SHOOTING****Air Leak**

- Run compressor to maximum pressure
- Turn off power
- Apply soap and water to all screwed-down connections by means of a brush. Any air leaks will be signalled by the appearance of bubbles.

**Air Leak from pressure switch with compressor off**

- Release all compressed air in tank
- Remove non-return valve cap A (Fig 7)
- Thoroughly clean valve seat and rubber seal B and remount everything

**Compressor stops and does not start again:**

Check that compressor assembly is not blocked. If it is not a mechanical failure, the fault is in the electric power. If unit is fitted with an overload cut-out, it is enough in many cases just to press the reset button, **once the cause has been determined** (Fig 8). If there is no overload cut-out and the motor does not start, proceed as follows:

- Make sure there is 240 volts at plug
- Make sure that voltage at pressure switch controls is 240 volt
- Check if motor's coil is burnt out

**Compressor does not pump air and overheats:**

Either the head seal or a valve is broken. With compressor cold, dismantle head and replace the faulty part, being careful to thoroughly clean seal surfaces.

**Compressor is very noisy with rhythmic, metallic hitting**

The bearing or bushing is burnt out. This occurs when compressor is run without oil or when the oil stops lubricating because it has not been changed on schedule. A skilled service mechanic must be called

**IMPORTANT:**

- Never unscrew any connection when tank is pressurised. Always make sure it is empty.
- Never remove pressure switch cover with power on
- If compressor is off but power on, it can start again suddenly. Before doing anything, make sure that power is off and all the air released from tank
- Turn power off every evening so that compressor does not start running overnight – at pressure switch and at wall

**GUARANTEE**

SIFCO will, free of charge, repair or, at its option, replace any part thereof which proves to be commercially defective as to materials or workmanship, provided that compressor is returned freight paid to a SIFCO Service Centre within 90 days of the date of delivery

This guarantee is annulled if the buyer does not observe the terms and conditions of the contract, if the machine has not been installed properly or is submitted to an abnormal workload, more than 8 hours a day

The buyer is also liable for all expenses if a Serviceman is asked to look at unit and can find no fault in the manufacture of the compressor

The guarantee is also voided by tampering, misuse or operation above the maximum pressure

If these provisions are not observed, SIFCO declines all responsibility

# Titan 50s

FIG 1

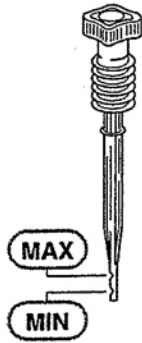


FIG 2

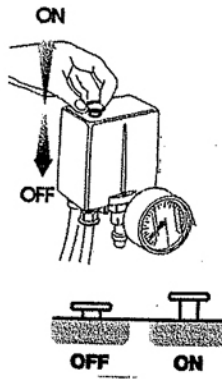


FIG 3

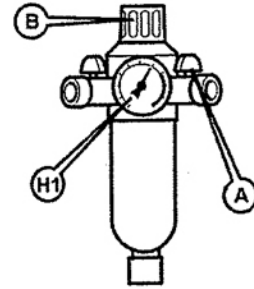


FIG 4

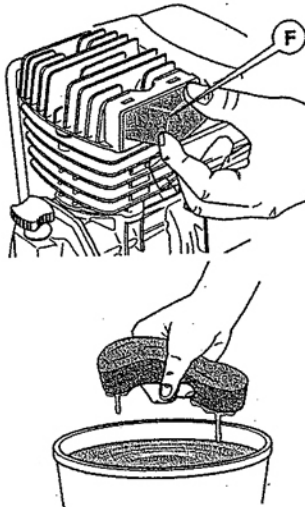


FIG 5

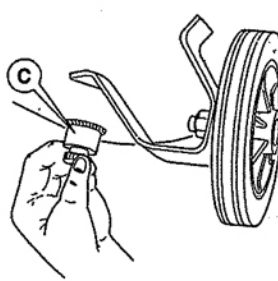


FIG 6

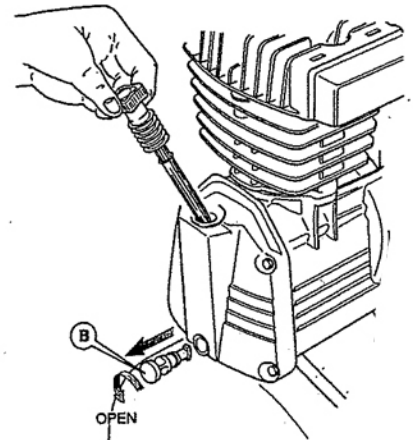


FIG 7

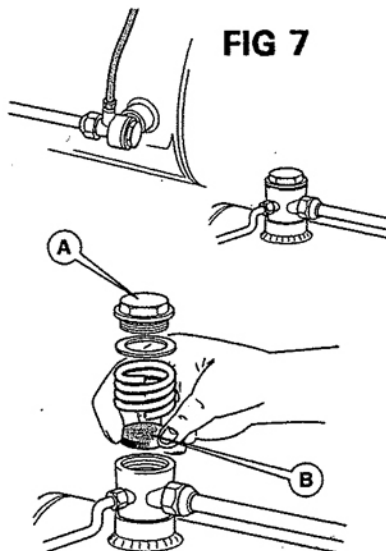
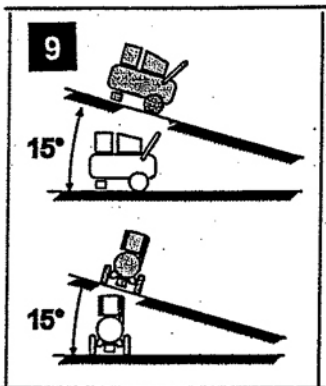
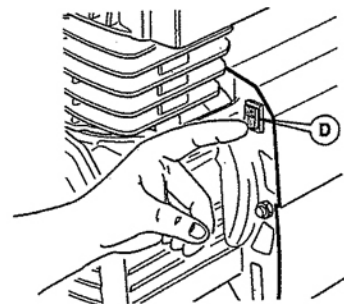


FIG 8



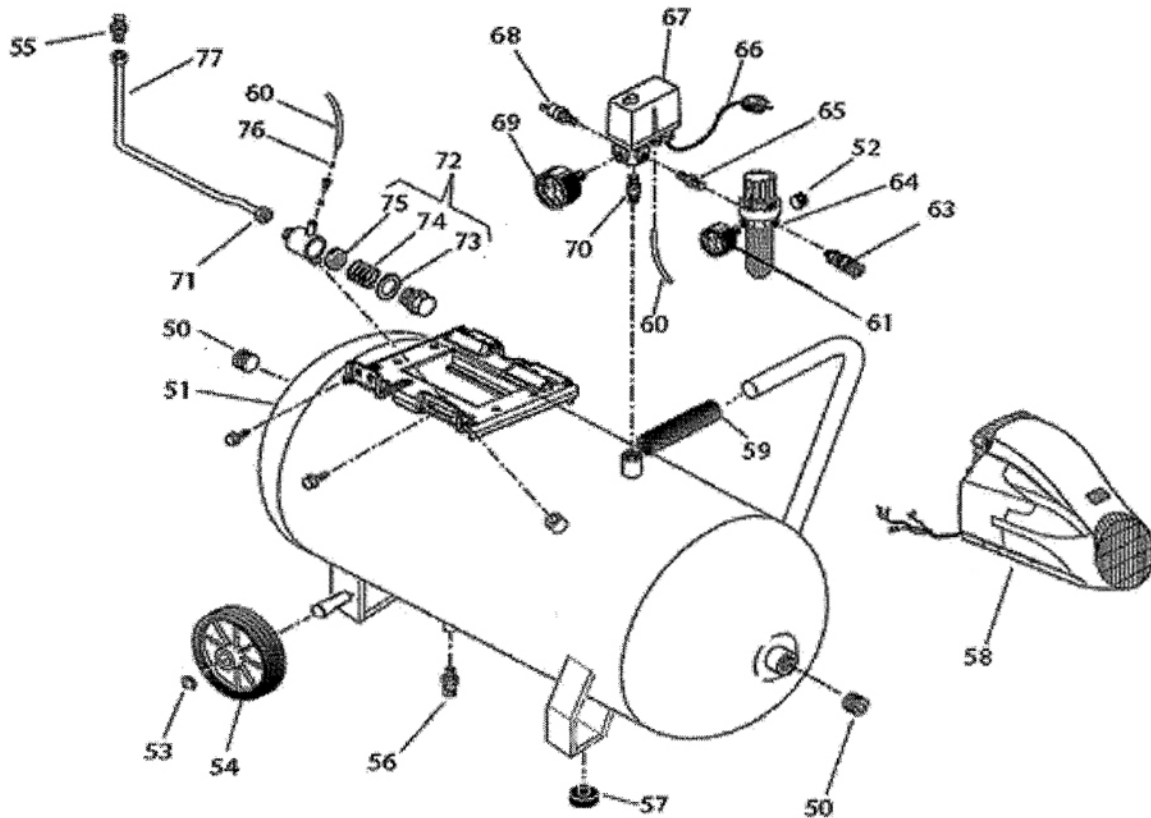


Type: Coaxial

# Model: TITAN 50S

Date: NOV 2010

Version: 01

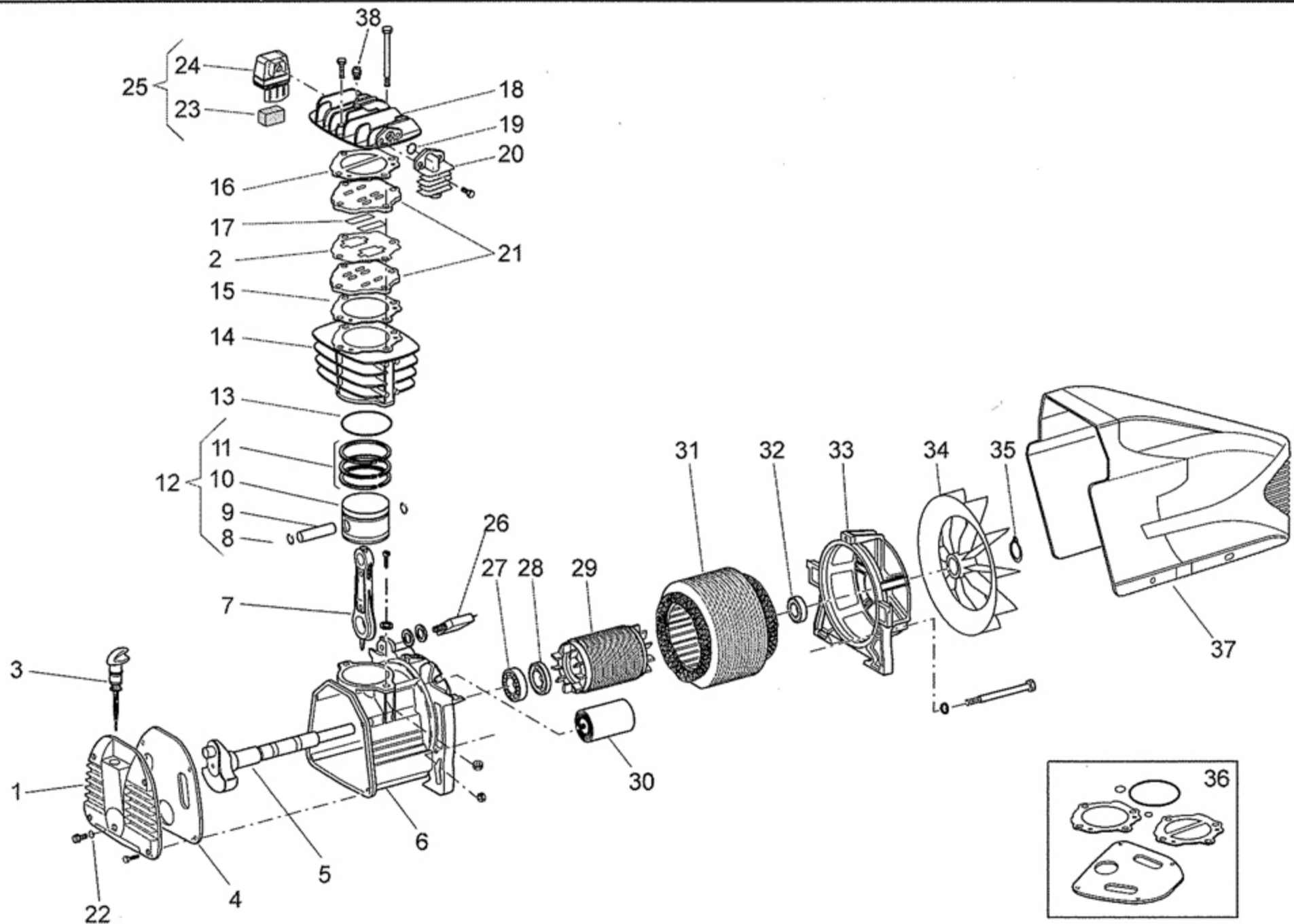


Ref.	Q.ty	Code	*	Denomination
50	2	011008000		PLUG
51	1			TANK
52	1	011088000		PLUG
53	2	015024000		CIRCLIP
54	2	020001001	4	WHEEL
55	1	011100004		NIPPLE
56	1	022021000	2	DRAIN VALVE
57	1	020293000	2	CUSHION
58	1	516NC02605		PUMP
59	1	020147000		KNOB
60	1	046001000	2	RILSAN TUBE
61	1	1681	4	SMALL GAUGE
63	1	86523K		QUICK COUPLER
64	1	F04292200	1	FILTER/REGULATOR
65	1	10483		DOUBLE MALE NIPPLE
66	1	117HA0200		POWER CABLE
67	1	321059000	1	PRESSURE SWITCH (SUB WITH 321028000)
68	1	047206000		SAFETY VALVE
69	1	1481	4	BIG GAUGE
70	1	199130360		80MM GALV BARREL
71	2	199437000		LOCKNUT
72	1	347043000	1	CHECK VALVE
73	1	010041000		O-RING
74	1	047113002		TAPERED SPRING
75	1	047113001	8	SEAL
76	1	011304000		CPMPASS
77	1	168CN0010	2	DELIVERY PIPE ALUMINIUM

\* Suggested parts in percentage

Type: **Coaxial**

Model:

**MK285-2.5M 230~240V/50Hz**Code: **516NC02605**Date: **OCT 2013**Version: **04**

Ref.	Q.ty	Code	*	Denomination
1	1	116CN0025		COVER
2	1	116CN0051		VALVE GASKET
3	1	012089000	2	OIL DIPSTICK
4	1	116120016		CASING COVER GASKET
5	1	116CN0003		CRANKSHAFT
6	1	116120006		CRANKCASE
7	1	116121005	2	CONNECTING ROD
8	2	015001000		CIRCLIP
9	1	116022040		PISTON PIN
10	1	116NC0005		PISTON
11	1	213118002	4	PISTON RING SET
12	1	416NC0010	2	COMPLETE PISTON
13	1	010133002		O RING
14	1	116NC0002		CYLINDER
15	1	116HT0002		CYLINDER GASKET
16	1	116CN0050		HEAD GASKET
17	2	116022038		VALVE BLADE
18	1	116CN0013		HEAD
19	1	010130000		O RING
20	1	116NC0004		AFTER COOLER
21	2	116CN0030		VALVE PLATE
22	1	010072000		O RING
23	1	017082001	12	FILTERING ELEMENT
24	1	017082002		AIR FILTER SUPPORT
25	1	317082000	4	INTAKE FILTER
26	1	008433000	2	OVERLOAD CUTOUT

\* Suggested parts in percentage

Ref.	Q.ty	Code	*	Denomination
27	1	033082000		BEARING
28	1	010132000		SEAL RING
29	1	116091020		ROTOR
30	1	009200026	2	CONDENSER
31	1	316NC1605	1	WOUND CASING
32	1	033118000		BEARING
33	1	116120007		REAR COVER
34	1	116120008		FAN
35	1	015083000		CIRCLIP
36	1	216NC0001	6	GASKETS SET
37	1	116NC0003		SHROUD
38	1	011158000		COLD START VALVE

\* Suggested parts in percentage